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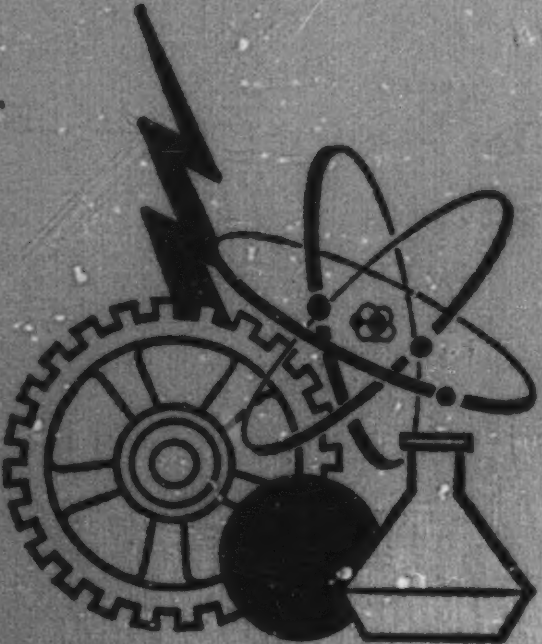

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  - Enberg, Helge, 4,637,302, Cl. 98-115.300.
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- AB Bonniertoretagen: *See—*
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  - Norback, Per G., 4,699,635, Cl. 55-33.000.
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  - Edwardson, Svante R., 4,695,252, Cl. 433-73.000.
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  - Andreasson, Bo C.; Donnerdal, Jan O.; and Aronsson, Tore A., 4,633,832, Cl. 123-335.000.
  - Andreasson, Bo C.; and Faijersseon, Sven I., 4,648,375, Cl. 123-602.000.
  - Andreasson, Bo C., 4,653,189, Cl. 30-382.000.
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  - Wennersten, Lars H.; and Karrman, Mats I., 4,651,147, Cl. 340-802.000.
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  - Jonsson, Nils-Arne, 4,655,656, Cl. 411-337.000.
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  - Bjork, Anders K.; and Christensson, Erik G., 4,656,175, Cl. 514-255.000.
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  - Bengtsson, Sigurd W., 4,675,948, Cl. 24-115.00G.
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  - Blomqvist, Erik M., 4,677,253, Cl. 174-35.00R.
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  - Fristedt, Tommy, 4,700,046, Cl. 219-202.000.
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- AB Ph. Nederman & Company: *See—*
  - Nederman, Bill P. P., 4,661,129, Cl. 55-218.000.
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  - Bergquist, Karl; and Sundemo, Magnus, 4,699,244, Cl. 181-226.000.
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  - Okumura, Tsuguo; Yamagishi, Naomichi; Abe, Kazuharu; Sugiyama, Masayoshi; and Mori, Kenji, 4,698,195, Cl. 264-235.800.
- Abe, Kazuhiro: *See—*
  - Miura, Koryo; Kitamura, Takayuki; Okazaki, Kakuma; and Abe, Kazuhiro, 4,662,130, Cl. 52-108.000.
- Abe, Kazuki: *See—*
  - Itoh, Hiroshi; Nakagawa, Toshimi; Nitta, Atsuhiko; Tanaka, Tomio; Kamio, Hideo; Enoshita, Ryosuke; Uejima, Tamotu; Ouchi, Takahiro; Abe, Kazuki; and Kobayashi, Sadao, 4,683,258, Cl. 524-434.000.
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- Abe, Kazuo; and Shimamura, Akira, to Nisshin-Dca Foods Inc. Crude material forming machine. 4,648,828, 3-10-87, Cl. 425-288.000.
- Abe, Kazuo: *See—*
  - Yokoi, Tatsuhisa; Takeya, Eisaku; Hattori, Kyo; Abe, Kazuo; and Osawa, Hideyuki, 4,672,939, Cl. 123-568.000.
- Abe, Kazuyoshi: *See—*
  - Tamura, Kinichi; Kawada, Susumu; Sekine, Yoshitada; Abe, Kazuyoshi; Ishikawa, Ryosuke; and Yokota, Fumiki, 4,691,905, Cl. 269-45.000.
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- Abe, Keizo: *See—*
  - Yamazaki, Iwao; Nakamichi, Yuji; Abe, Keizo; and Okudera, Tatsuya, 4,682,221, Cl. 358-107.000.
- Abe, Kingo: *See—*
  - Suzuki, Masato; Narita, Hiroshi; Okamatsu, Shigetoshi; and Abe, Kingo, 4,675,799, Cl. 363-58.000.
- Abe, Kiyomi, to Pentel Kabushiki Kaisha. Position determination device. 4,677,259, 6-30-87, Cl. 178-18.000.
- Abe, Koichi, to Northern Telecom Limited. Method for manufacturing optical waveguide. 4,643,751, 2-17-87, Cl. 65-3.120.
- Abe, Koichi, to Northern Telecom Limited. Optical fiber. 4,648,891, 3-10-87, Cl. 65-3.120.
- Abe, Kojin: *See—*
  - Onda, Kenichi; and Abe, Kojin, 4,665,473, Cl. 363-21.000.
  - Onda, Kenichi; Abe, Kojin; and Ogawa, Tsugio, 4,700,280, Cl. 363-19.000.
- Abe, Kouichi: *See—*
  - Yamatsu, Isao; Inai, Yuichi; Abe, Shinya; Suzuki, Takeshi; Suzuki, Yoshikazu; Tagaya, Osamu; Suzuki, Kouichi; Abe, Kouichi; and Yamada, Kouji, 4,655,973, Cl. 260-404.000.
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- Abe, Kunihiro, to Fuji Jukogyo Kabushiki Kaisha. Intake air control system for an automotive engine. 4,672,935, 6-16-87, Cl. 123-339.000.
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- Abe, Kunihisa: *See—*
  - Tonoki, Satoshi; Tsunemi, Hidenari; Nishimura, Asaichi; and Abe, Kunihisa, 4,710,420, Cl. 428-212.000.
- Abe, Masafumi: *See—*
  - Fujiki, Hiroyuki; Michiura, Yoshiharu; and Abe, Masafumi, 4,700,848, Cl. 211-63.000.
- Abe, Masahiro; Aoyama, Masaharu; Ajima, Takashi; and Yonezawa, Toshio, to Tokyo Shibaura Denki Kabushiki Kaisha. Semiconductor device with an improved bonding section. 4,636,832, 1-13-87, Cl. 357-68.000.
- Abe, Masahiro: *See—*
  - Hirai, Kiyomiki; Takeuchi, Koji; Sakamoto, Hiroshi; and Abe, Masahiro, 4,689,388, Cl. 528-104.000.
  - Mase, Yasukazu; Abe, Masahiro; and Aoyama, Masaharu, 4,634,496, Cl. 156-643.000.
- Abe, Masakazu: *See—*
  - Maruno, Naohiko; Abe, Masakazu; and Ogawa, Tetsuo, 4,684,842, Cl. 310-316.000.
- Abe, Masanori: *See—*
  - Gomi, Manabu; and Abe, Masanori, 4,657,782, Cl. 427-130.000.
- Abe, Masao; and Miura, Nobuo, to Honda Giken Kogyo Kabushiki Kaisha. Ignition system. 4,679,540, 7-14-87, Cl. 123-602.000.
- Abe, Masao: *See—*
  - Watanabe, Hiroshi; Shimamura, Isao; Abe, Masao; and Mizusawa, Masashi, 4,659,439, Cl. 204-37.600.
- Abe, Masaru: *See—*
  - Kawai, Yoichi; Abe, Masaru; Maki, Masami; Suzuki, Koutarou, and Hoshino, Minoru, 4,663,369, Cl. 523-203.000.
  - Kawai, Yoichi; Abe Masaru; Yoshihara, Akio; Hayashi, Shigeru; and Sekiguchi, Katsumi, 4,705,818, Cl. 523-200.000.
- Abe, Michiharu; and Oba, Hideaki, to Ricoh Company, Ltd. Optical information recording medium. 4,652,514, 3-24-87, Cl. 430-343.000.
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- Abe, Michiharu: *See—*
  - Sato, Tsutomu; Umehara, Masaakira; Abe, Michiharu; Oba, Hideaki; and Ueda, Yutaka, 4,656,121, Cl. 430-495.000.
  - Sato, Tsutomu; Umehara, Masaakira; Abe, Michiharu; Oba, Hideaki; and Ueda, Yutaka, 4,714,667, Cl. 430-270.000.
- Abe, Miki; and Suzuki, Tadao, to Sony Corporation. Analogue to digital converter. 4,649,372, 3-10-87, Cl. 340-347.0NT.
- Abe, Mikio, to Alps Electric Co., Ltd. Variable porcelain condenser structure. 4,642,729, 2-10-87, Cl. 361-293.000.
- Abe, Minoru, to Mitsubishi Denki Kabushiki Kaisha. Optical disk control apparatus. 4,669,075, 5-26-87, Cl. 369-48.000.
- Abe, Mitsuo: *See—*
  - Iriyama, Shozo; and Abe, Mitsuo, 4,694,508, Cl. 2-21.000.
- Abe, Nobuhide; Adachi, Minoru; Ito, Makoto; and Uchida, Toshiya, to Kabushiki Kaisha Tamura Seisakusho. Method of and apparatus for controlling automatic soldering system. 4,698,774, 10-6-87, Cl. 364-477.000.
- Abe, Nobutoshi; and Imamura, Kazunori, to Nippon Kogaku K. K. Automatic photomask or reticle washing and cleaning system. 4,715,392, 12-29-87, Cl. 134-62.000.
- Abe, Norihiro: *See—*
  - Dohzono, Masatake; Miyashita, Iwao; and Abe, Norihiro, 4,714,466, Cl. 604-378.000.
- Abe, Norio: *See—*
  - Hoizumi, Shinichi; Abe, Norio; Ueno, Takeshi; Arakawa, Tadao; and Hodozuka, Kunio, 4,693,086, Cl. 60-663.000.
- Abe, Noriyuki: *See—*
  - Nakamura, Hisashi; and Abe, Noriyuki, 4,661,051, Cl. 417-499.000.
  - Suzuki, Tadashi; Okada, Kazuyoshi; and Abe, Noriyuki, 4,712,211, Cl. 370-100.000.
- Abe, Ryozo: *See—*
  - Sugiyama, Hiroyuki; Sakurai, Masaki; Abe, Ryozo; Yoshihara, Kenji; and Haneji, Yasuo, 4,638,376, Cl. 358-342.000.
- Abe, Sanae: *See—*
  - Sato, Noboru; Habu, Kazutaka; and Abe, Sanae, 4,710,434, Cl. 428-678.000.
- Abe, Seiko: *See—*
  - Igashira, Toshihiko; Sakakibara, Yasuyuki; Abe, Seiko; Takigawa, Masahiro; and Izawa, Akihiro, 4,635,849, Cl. 239-102.200.
  - Igashira, Toshihiko; Sakakibara, Yasuyuki; Yoshinaga, Toru; and Abe, Seiko, 4,649,887, Cl. 123-508.000.
  - Igashira, Toshihiko; Sakakibara, Yasuyuki; Takeuchi, Yasuhiro; Abe, Seiko; and Nohira, Hidetaka, 4,667,638, Cl. 123-446.000.
  - Sakakibara, Yasuyuki; Abe, Seiko; Tomita, Masahiro; Yorita, Hiroshi; Tanaka, Takeshi; and Igashira, Toshihiko, 4,705,003, Cl. 123-449.000.
- Abe, Shigeo: *See—*
  - Kobayashi, Takao; Abe, Shigeo; Bandoh, Tadaaki; Takatoo, Masao; Matsumoto, Hidekazu; and Hara, Hideyuki, 4,644,490, Cl. 364-748.000.
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- Abe, Shinya: *See—*
  - Yamatsu, Isao; Inai, Yuichi; Abe, Shinya; Watanabe, Hideaki; Igarashi, Toshiji; Shiojiri, Hiroyuki; Tanabe, Yoshio; and Hara, Kumiko, 4,639,450, Cl. 514-238.000.
  - Yamatsu, Isao; Inai, Yuichi; Abe, Shinya; Suzuki, Takeshi; Suzuki, Yoshikazu; Tagaya, Osamu; Suzuki, Kouichi; Abe, Kouichi; and Yamada, Kouji, 4,655,973, Cl. 260-404.000.
  - Yamatsu, Isao; Abe, Shinya; Inai, Yuichi; Suzuki, Takeshi; Kinoshita, Kensaku; Mishima, Mannen; Katoh, Yoshinori; Kobayashi, Seiichi; Murakami, Manabu; and Yamada, Kouzi, 4,709,079, Cl. 560-66.000.
- Abe, Shizuo, to Toyota Jidosha Kabushiki Kaisha. Driving force transmission mechanism using a timing belt for an internal combustion engine. 4,708,700, 11-24-87, Cl. 474-205.000.
- Abe, Shoji, to Hitachi, Ltd. Method of warming up a reheat turbine. 4,651,532, 3-24-87, Cl. 60-646.000.
- Abe, Shuichi: *See—*
  - Watabe, Masaya; and Abe, Shuichi, 4,638,429, Cl. 364-200.000.

- Abe, Shunichi, to Canon Kabushiki Kaisha. Image processing apparatus with improved gamma-correction. 4,700,236, 10-13-87, Cl. 358-284.000.
- Abe, Shunichi: *See—*
  - Kawamura, Naoto; and Abe, Shunichi, 4,713,684, Cl. 358-78.000.
  - Shimoda, Kazuho; and Abe, Shunichi, 4,693,459, Cl. 271-9.000.
- Abe, Shuro; Yabuki, Yoshiro; Takamatsu, Yasuhiko; Yamaguchi, Takayuki; Ohta, Masatoshi; and Nakamura, Eiji, to Ricoh Company, Ltd. Thermal print head. 4,651,164, 3-17-87, Cl. 346-76.0PH.
- Abe, Susumu: *See—*
  - Ota, Kazuhide; and Abe, Susumu, 4,705,762, Cl. 501-87.000.
- Abe, Tadashi: *See—*
  - Sugizaki, Tsugio; Abe, Tadashi; Haibara, Fumio; Fujii, Ritsuo; Ura, Hiroaki; and Matsumoto, Tooru, 4,650,176, Cl. 271-225.000.
- Abe, Taizoh: *See—*
  - Tsukahara, Kengi; Matsui, Kazuma; Abe, Taizoh; and Suzuki, Masahiko, 4,697,991, Cl. 417-219.000.
- Abe, Taizou; and Tsukahara, Kenji, to Nippondenso Co., Ltd. Variable displacement fluid pump. 4,634,349, 1-6-87, Cl. 417-219.000.
- Abe, Taizou: *See—*
  - Tsukahara, Kenji; and Abe, Taizou, 4,699,103, Cl. 123-304.000.
  - Tsukahara, Kenji; and Abe, Taizou, 4,711,616, Cl. 417-216.000.
- Abe, Takao; and Ogaga, Tetsuo, to Sony Corporation. Method of error modification for video data. 4,706,111, 11-10-87, Cl. 358-21.00R.
- Abe, Takao: *See—*
  - Inaba, Yoshihiro; Koshizuka, Kunihiro; Maehashi, Tatsuichi; and Abe, Takao, 4,707,406, Cl. 428-336.000.
  - Koshizuka, Kunihiro; Kitamura, Shigehiro; Abe, Takao; Nakamura, Masaki; Ishii, Fumio; and Hotta, Yuji, 4,643,917, Cl. 427-256.000.
  - Koshizuka, Kunihiro; Abe, Takao; Kitamura, Shigehiro; and Watanabe, Hiroshi, 4,673,618, Cl. 428-336.000.
  - Maehashi, Tatsuichi; Abe, Takao; Koshizuka, Kunihiro; and Inaba, Yoshihiro, 4,681,796, Cl. 428-212.000.
  - Suma, Tetsuro; Abe, Takao; and Ogawa, Tetsuo, 4,680,763, Cl. 371-37.000.
  - Takano, Yoshiya; Hoshi, Yoshikazu; Abe, Takao; and Tomozaki, Ryozoo, 4,687,425, Cl. 417-462.000.
- Abe, Takayuki: *See—*
  - Miyamae, Shigehiro; and Abe, Takayuki, 4,657,505, Cl. 431-284.000.
- Abe, Takeshi, to Nissan Motor Co., Ltd. Radiator fan. 4,714,408, 12-22-87, Cl. 416-91.000.
- Abe, Tatsuhiko; and Takagi, Nobukazu, to Diesel Kiki Co., Ltd. Solenoid valve. 4,643,223, 2-17-87, Cl. 137-554.000.
- Abe, Tatsuhiko: *See—*
  - Yamada, Keiichi; and Abe, Tatsuhiko, 4,678,160, Cl. 251-129.020.
- Abe, Tetsuya: *See—*
  - Kobayashi, Naotake; Abe, Tetsuya; Shinohara, Satoru; and Fujiwara, Yoshio, 4,651,645, Cl. 101-470.000.
  - Kobayashi, Naotake; Abe, Tetsuya; Satoru, Shinohara; and Fujiwara, Yoshio, 4,666,320, Cl. 400-241.100.
  - Kobayashi, Naotake; Abe, Tetsuya; and Fujiwara, Yoshio, 4,668,560, Cl. 428-195.000.
- Abe, Tomoaki; Fujisawa, Hideya; Omori, Norio; Kinugawa, Masumi; Ito, Katsunori; Akiyama, Susumu; Mizuno, Tiaki; and Yamada, Toshitaka, to Nippondenso Co., Ltd. Control system for an engine having an air intake passage. 4,713,765, 12-15-87, Cl. 364-431.050.
- Abe, Tomoaki: *See—*
  - Ina, Katsuhiro; Sato, Yoshihisa; Kinugawa, Masumi; Suzuki, Atsushi; Ito, Katsunori; Akiyama, Susumu; Mizuno, Tiaki; Yamada, Toshitaka; and Abe, Tomoaki, 4,665,745, Cl. 73-204.000.
- Abe, Tomohiro: *See—*
  - Inoue, Kaoru; Miyagawa, Hiroharu; Itoh, Masayoshi; Abe, Tomohiro; Koizumi, Kyogo; and Yanagawa, Noriyuki, 4,667,048, Cl. 556-469.000.
- Abe, Toshiro: *See—*
  - Kawai, Noboru; Abe, Toshiro; and Murata, Kei, 4,655,876, Cl. 156-643.000.
- Abe, Tsutomu: *See—*
  - Hirosawa, Toshiaki; Akiyama, Yoshie; Ebisawa, Isao; Hattori, Yoshifumi; and Abe, Tsutomu, 4,684,962, Cl. 346-140.00R.
- Abe, Wataru: *See—*
  - Miyazaki, Kenji; Hagio, Tsuyoshi; Ogawa, Ichitaro; Yoshida, Hisayoshi; Kobayashi, Kazuo; Kashima, Kazutsugu; Tada, Takashi; Hayashi, Yoichiro; and Abe, Wataru, 4,637,884, Cl. 252-12.000.
- Abe, Yoshiaki: *See—*
  - Iizuka, Fumio; Shimoyama, Shin; and Abe, Yoshiaki, 4,668,572, Cl. 428-330.000.
- Abe, Yoshiharu; Wazaki, Yoshio; and Oono, Tetsuya, to Honda Giken Kogyo Kabushiki Kaisha. Method for controlling the supply of fuel for an internal combustion engine. 4,709,334, 11-24-87, Cl. 364-431.050.
- Abe, Yoshihiro; and Hosono, Hideo, to Central Glass Company, Limited, a part interest. Glass useful as either photosensitive glass or opaline foam glass. 4,703,019, 10-27-87, Cl. 501-13.000.
- Abe, Yoshinobu: *See—*
  - Ishitsubo, Kenji; and Abe, Yoshinobu, 4,697,065, Cl. 219-219.000.
- Abe, Yoshio; Okano, Tetsuo; Omori, Tomohiro; and Kawamoto, Minoru, to Mazda Motor Corporation. Exhaust gas recirculation system for automatic transmission vehicle. 4,693,225, 9-15-87, Cl. 123-568.000.
- Abe, Yoshio: *See—*
  - Hoshi, Hideaki; Okumura, Jun; Naito, Takayuki; Abe, Yoshio; and Aburaki, Shimpei, 4,661,590, Cl. 540-215.000.
  - Hoshi, Hideaki; Okumura, Jun; Naito, Takayuki; Abe, Yoshio; and Aburaki, Shimpei, 4,699,979, Cl. 540-215.000.
  - Iimura, Seiji; Abe, Yoshio; Okumura, Jun; Naito, Takayuki; and Kamachi, Hajime, 4,708,955, Cl. 514-202.000.
- Abe, Yuichi: *See—*
  - Seko, Yasutoshi; and Abe, Yuichi, 4,692,798, Cl. 358-93.000.
- Abe, Yuji: *See—*
  - Matsumoto, Seishi; Nakashimizu, Takeo; and Abe, Yuji, 4,658,920, Cl. 177-25.000.
  - Sasaki, Kouichi; Tsudaka, Hideaki; Namba, Satoshi; Abe, Yuji; and Yoshinaga, Shinsuke, 4,647,178, Cl. 355-3.00R.
  - Takizawa, Kazushige; Sakaki, Hirokazu; Abe, Yuji; Matsuo, Mamoru; Tajiri, Akira; and Tsuchida, Shin, 4,686,093, Cl. 420-548.000.
- Abe, Zenwemon: *See—*
  - Yamada, Yoshifumi; Tanaka, Kunio; and Abe, Zenwemon, 4,651,098, Cl. 324-309.000.
- Abecassis, Jacky R.; Baum, Bernard; Favier, Andre-Marcel; and Levert, Patrice C., to Laboratoires Boiron. Manufacturing chain for homeopathic medicaments, particularly for the impregnation of granules or pellets. 4,703,717, 11-3-87, Cl. 118-698.000.
- Abeco Limited: *See—*
  - Bieganski, Zdzislaw, 4,648,773, Cl. 414-411.000.
- Abed, Kamel Ben Y. Mechanical horse for children's play. 4,690,397, 9-1-87, Cl. 272-53.200.
- Abed, Majeed, to Storage Technology Partners II. Focus acquisition and maintenance for optical disk system. 4,677,605, 6-30-87, Cl. 369-45.000.
- Abegglen, Martin: *See—*
  - Renker, Hansjoerg; and Abegglen, Martin, 4,696,839, Cl. 428-15.000.
- Abel, Heinz; Schafer, Paul; and Berendt, Hans-Ulrich, to Ciba-Geigy Corporation. Water-soluble or water-dispersible graft polymers, process for their preparation and the use thereof. 4,705,525, 11-10-87, Cl. 8-555.000.
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- Abel, Heinz: *See—*
  - Navratil, Josef; and Abel, Heinz, 4,655,786, Cl. 8-475.000.
  - Navratil, Josef; and Abel, Heinz, 4,715,863, Cl. 8-440.000.
  - Topfl, Rosemarie; and Abel, Heinz, 4,713,482, Cl. 560-196.000.
- Abel, Joachim; Neuhaus, Detlev; Hesse, Karl-Heinz; Muller, Michael; and Lichtenberg, Wolfgang, to WABCO Westinghouse Fahrzeugbremsen GmbH. Magnetic-type of analog distance sensor having a hall effect sensing element. 4,665,362, 5-12-87, Cl. 324-208.000.
- Abel, Kent W.; and Attoe, Gary N., to Kimberly-Clark Corporation. Apparatus and method for ultrasonic bonding of a moving web. 4,713,132, 12-15-87, Cl. 156-73.100.
- Abel, Kent W.: *See—*
  - Ales, Thomas M.; Strohbeen, David T.; Damico, Joyce A.; Van Gompel, Paul T.; and Abel, Kent W., 4,639,949, Cl. 2-400.000.
- Abel, Otto: *See—*
  - Sundermann, Erich; Reye, Hans; and Abel, Otto, 4,703,022, Cl. 502-413.000.
- Abel, Robert, Jr. Artificial cornea. 4,693,715, 9-15-87, Cl. 623-5.000.
- Abel, Stephen G., to Garrett Corporation, The. Servo system method and apparatus, servo valve apparatus therefor and method of making same. 4,649,803, 3-17-87, Cl. 91-417.00R.
- Abel, Stephen G.: *See—*
  - Green, O. Brad; Dobson, William; and Abel, Stephen G., 4,641,405, Cl. 29-157.10R.
- Abel, William E., to Sentrol, Inc. Supervised wireless security system. 4,661,804, 4-28-87, Cl. 340-539.000.
- Abel, William E., to Sentrol, Inc. Moisture detector. 4,692,752, 9-8-87, Cl. 340-604.000.
- Abele, Berthold W., to KSA Dichtsysteme GmbH. Anti-vibrational electrical-conductivity-conformed seal arrangement. 4,691,928, 9-8-87, Cl. 277-235.00B.
- Abele, Manlio G.; and Marshall, Christopher H., to Philips Medical Systems, Inc. Method and apparatus for computed tomography of portions of a body plane. 4,670,892, 6-2-87, Cl. 378-004.000.
- Abeles, Benjamin; Eberhardt, Wolfgang U.; and Tiedje, J. Thomas, to Exxon Research and Engineering Co. X-ray mirrors made from multi-layered material. 4,684,565, 8-4-87, Cl. 428-220.000.
- Abeles, Benjamin: *See—*
  - Deckman, Harry W.; Stephens, Richard B.; Tiedje, J. Thomas; and Abeles, Benjamin, 4,701,366, Cl. 428-188.000.
  - Tiedje, Thomas J.; and Abeles, Benjamin, 4,642,144, Cl. 148-175.000.
- Abeles, Robert H.: *See—*
  - Dowd, Paul; Kaufman, Christopher; and Abeles, Robert H., 4,714,777, Cl. 562-506.000.
- Abell, Kathleen A.: *See—*
  - Boyd, James B.; and Abell, Kathleen A., 4,673,195, Cl. 280-801.000.
- Abell, Steven T., to Hewlett-Packard Company. Syntactic device for chain calculations. 4,698,784, 10-6-87, Cl. 364-900.000.
- Abeln, Stephen: *See—*
  - Abbaschian, Gholamreza J.; and Abeln, Stephen, 4,643,779, Cl. 148-11.50A.
- Abelson, Perove: *See—*
  - Westin, Johnny; Karlsson, Jan; and Abelson, Perove, 4,646,726, Cl. 128-80.00H.
- Aben, Hermanus J. S., to U.S. Philips Corporation. Color television receiver comprising a chrominance signal processing circuit and an integrated circuit therefor. 4,677,463, 6-30-87, Cl. 358-40.000.

Abend, Phillip G.: *See—*
- Novakovic, Mario; and Abend, Phillip G., 4,696,767, Cl. 252-557.000.

Abendroth, Carl W. Fastener for flooring systems. 4,703,601, 11-3-87, Cl. 52-509.000.

Abendroth, Paul; Holl, Roland; Mathes, Josef; and Dettinger, Dietrich, to M.A.N.-Roland Druckmaschinen Aktiengesellschaft. Vertically adjustable gripper supports for the grippers of reversing drums of perfecting presses. 4,664,032, 5-12-87, Cl. 101-230.000.

Aberle, Thomas; Belzen, David V., and Krauter, Immanuel, to Robert Bosch GmbH. Over-voltage protective circuit for semiconductor network. 4,704,654, 11-3-87, Cl. 361-90.000.

Abernathey, John R.; Kinney, Wayne I.; Lasky, Jerome B.; and Stiffler, Scott R., to International Business Machines Corporation. Method of fabricating silicon-on-insulator transistors with a shared element. 4,649,627, 3-17-87, Cl. 29-571.000.

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- Farr, Aaron V., 4,636,720, Cl. 324-86.000.
- Frank, Earl E., 4,637,578, Cl. 246-391.000.
- Kouns, Herbert H.; and Gardner, Loren D., 4,715,788, Cl. 417-218.000.

ABG Apparatebau-Gesellschaft mbH: *See—*
- Scheja, Erich, 4,662,147, Cl. 53-137.000.

ABG Semca: *See—*
- Decima, Fredy, 4,637,472, Cl. 169-35.000.
- Signoret, Jacques, 4,665,715, Cl. 62-402.000.

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Abramson, Naomi K. Women's nursing wear fashions. 4,660,227, 4-28-87, Cl. 2-104.000.
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  Ueno, Atsushi, and Abumi, Takao, 4,639,768, Cl. 358-22.000.
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  - Whitney, David R.; and Whitney, Ronald B., 4,637,797, Cl. 434-118.000.
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  - Lichtenberg, Norman B.; and Chaczyk, Adam W., 4,694,706, Cl. 74-501.50R.
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- Accu-Med Corporation: *See—*
  - Koll, Laurel A., 4,653,510, Cl. 128-756.000.
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  - Rasmussen, Robert, 4,679,979, Cl. 414-786.000.
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  - James, James R., 4,681,137, Cl. 137-568.000.
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- Acerra, Rita: *See—*
  - Reilly, Letizia; and Acerra, Rita, 4,655,272, Cl. 160-348.000.
- Acet Limited: *See—*
  - Riley, Timothy W., 4,674,194, Cl. 33-551.000.
- Acetarin, Jean-Dominique; Villiger, Werner; and Carlemalm, Eric, to Chemische Werke Lowi GmbH. Embedding media suitable for the preparation of thin sections of embedded biological materials. 4,680,362, 7-14-87, Cl. 526-320.000.
- Aceti, John G.; and Schneller, Robert E., to RCA Corporation. Apparatus and method for assembling gears. 4,662,053, 5-5-87, Cl. 29-429.000.
- Aceti, John G., to RCA Corporation. Pallet. 4,693,370, 9-15-87, Cl. 206-488.000.
- Aceti, John G.; and Schneller, Robert E., to RCA Corporation. Wire insertion apparatus for insulation displacement terminal. 4,703,543, 11-3-87, Cl. 29-33.00M.
- Acevedo, Raul. Orthodontic appliance. 4,674,978, 6-23-87, Cl. 433-8.000.
- ACF Industries, Incorporated: *See—*
  - Balbi, Philip A.; and Coulborn, John W., 4,646,653, Cl. 105-406.100.
  - Billingsley, Robert H.; and Jantzen, Steven L., 4,690,071, Cl. 105-404.000.
  - Billingsley, Robert H., Jr.; Jantzen, Steven L.; O'Leary, Walter E.; and Krug, John A., 4,696,238, Cl. 105-248.000.
  - Dugge, Richard H.; and Cordani, Eugene J., 4,677,917, Cl. 105-248.000.
  - Needham, Robert F., 4,641,677, Cl. 137-15.000.
- Achar, Bappalige N.; Fohlen, George M.; and Parker, John A., to United States of America, National Aeronautics and Space Administration. Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile. 4,649,189, 3-10-87, Cl. 528-220.000.
- Achard, Georges; Anouilh, Gilbert; and Menault, Jacques, to Rhovyl. Process for production of yarns and fibers with good properties, based on atactic polyvinyl chloride. 4,707,319, 11-17-87, Cl. 264-168.000.
- Acharekar, Madhu; and Casteleiro, Carlos, to Litton Systems, Inc. Laser apparatus. 4,653,063, 3-24-87, Cl. 372-107.000.
- Acharya, Arun; Patterson, Michael F.; and Nowobilski, Jeffert J., to Union Carbide Corporation. Vacuum insulation system method of manufacture. 4,667,390, 5-26-87, Cl. 29-455.00R.
- Acharya, Arun; and Bevier, William E., to Union Carbide Corporation. Single component adsorption process. 4,711,646, 12-8-87, Cl. 55-33.000.
- Acharya, Kishore C.: *See—*
  - Srinivasan, Nallaswamy; Banaszewski, Sharon L.; and Acharya, Kishore C., 4,680,709, Cl. 364-414.000.
- Achatz, Florian: *See—*
  - Wentzel, Peter; Huber, Erich; Weiss, Eckardt; and Achatz, Florian, 4,706,136, Cl. 360-39.000.
- Achberger, Gottfried; and Angele, Eugen, to Zahnradfabrik Friedrichshafen AG. Transmission shifting arrangement. 4,666,023, 5-19-87, Cl. 192-4.00A.
- Ache, Lani G.: *See—*
  - Rung, Robert; and Ache, Lani G., 4,639,020, Cl. 285-367.000.
- Achelpohl, Fritz; and Upmeier, Hartmut, to Windmoller & Holscher. Apparatus for cooling tubular plastic films extruded from a film blowing head. 4,643,657, 2-17-87, Cl. 425-72.00R.
- Achelpohl, Fritz; Mundus, Friedhelm; and Krutemeier, Werner, to Windmoller & Holscher. Apparatus for stacking and conveying flat articles, preferably bags made of plastic film. 4,657,528, 4-14-87, Cl. 493-204.000.
- Achelpohl, Fritz, to Windmoller & Holscher. Apparatus for cutting stacks of flat workpieces. 4,682,524, 7-28-87, Cl. 83-151.000.
- Achelpohl, Fritz; Winkler, Gerhard; Tupker, Hermann; and Linkies, Jurgen, to Windmoller & Holscher. Extrusion die for a blow head for making blown plastic films. 4,701,116, 10-20-87, Cl. 425-72.00R.
- Achelpohl, Fritz: *See—*
  - Mundus, Friedhelm; and Achelpohl, Fritz, 4,642,013, Cl. 414-73.000.
- Acher, Jacques: *See—*
  - Thominet, Michel; Acher, Jacques; and Monier, Jean-Claude, 4,673,686, Cl. 514-359.000.
- Acheson, Rees. Automatic welding apparatus for weld build-up and method of achieving weld build-up. 4,687,899, 8-18-87, Cl. 219-76.140.
- Achia, Biddanda U.: *See—*
  - Bristow, Duncan J.; Achia, Biddanda U.; and Evers, Lawrence J., 4,673,485, Cl. 208-86.000.
- Achiever Industries Limited: *See—*
  - Chan, Jimmy, 4,666,276, Cl. 354-145.100.
- Achiha, Hikaru: *See—*
  - Ohya, Kanji; and Achiha, Hikaru, 4,684,843, Cl. 310-355.000.
- Achiha, Masahiko; and Ishikura, Kazuo, to Hitachi, Ltd. Scanning line interpolation circuit for television signal. 4,636,857, 1-13-87, Cl. 358-140.000.
- Achiha, Masahiko, to Hitachi, Ltd. Movement detection circuit for television signals. 4,688,084, 8-18-87, Cl. 358-36.000.
- Achiha, Masahiro: *See—*
  - Sato, Kazuhiro; Achiha, Masahiro; and Nagahara, Shusaku, 4,677,621, Cl. 371-30.000.
- Achleitner, Walter: *See—*
  - Ebeling, Joachim; Friedrich, Peter; Jekat, Herbert; Lugscheider, Walter; Riegler, Ernst; Zajicek, Ernst; Achleitner, Walter; and Jarema, Ferdinand, 4,644,557, Cl. 373-22.000.
- Achmatowicz, Barbara; Daniewski, Andrzej R.; Marczak, Stanislaw; Pankowski, Jacek; and Wicha, Jerzy, to Polska Akademia Nauk-Instytut Chemii Organicznej. Method of obtaining derivatives of 4β-/1'-alken-1'-yl/-2ξ,5α-dihydroxy-3,3aβ-4,5,6,6aβ-hexahydro-2H-cyclopenta(b)furan. 4,707,554, 11-17-87, Cl. 549-214.000.
- Achorn, G. Stanley: *See—*
  - Harris, James J.; Hostetler, Donald E.; and Achorn, G. Stanley, 4,681,924, Cl. 526-125.000.
- Achtenberg, Theo: *See—*
  - Weber, Wilhelm; Sockel, Karl H.; Achtenberg, Theo; and Sattlegger, Hans, 4,705,826, Cl. 524-860.000.
- Achtermann, Jurgen H.; Bose, Tapan K.; and St-Arnaud, Jean-Marie, to L'Universite du Quebec a Trois-Rivieres. Precise determination of the compressibility factor of a gas from refractive index measurements. 4,702,604, 10-27-87, Cl. 356-361.000.
- Achtnig, Klaus-Peter; Herfort, Herrman; and Hegner, Gunther, to Krone GmbH. Multipolar plug. 4,682,838, 7-28-87, Cl. 439-598.000.
- Achtnig, Peter; and Hegner, Gunter, to Krone GmbH. Heat protection device for overvoltage arrester magazines. 4,642,723, 2-10-87, Cl. 361-124.000.
- Achtnig, Peter: *See—*
  - Forberg, Horst; Hegner, Gunter; Achtnig, Peter; and Delakowitz, Bernd, 4,634,209, Cl. 339-147.00R.

ACI Australia Limited: *See—*
  An, Hung D., 4,671,044, Cl. 53-468.000.
  Goodacre, Stanley A.; and Blaubaum, Anthony E., 4,656,082, Cl. 428-248.000.
  Granat, Rodney J., 4,694,969, Cl. 215-252.000.
Aciers et Outillage Peugeot: *See—*
  Clement, Pierre, 4,662,341, Cl. 123-556.000.
  Escaravage, Gerard, 4,677,715, Cl. 24-637.000.
  Escaravage, Gerard, 4,685,177, Cl. 24-641.000.
  Escaravage, Gerard, 4,702,493, Cl. 280-808.000.
  Escaravage, Gerard, 4,702,494, Cl. 280-808.000.
  Monsigny, Jean, 4,677,716, Cl. 24-641.000.
  Monsigny, Jean, 4,685,635, Cl. 242-107.40A.
  Monsigny, Jean, 4,691,938, Cl. 280-804.000.
  Rudi, Alain; and Bertot, Maurice, 4,678,906, Cl. 250-227.000.
  Tourret, Alain P., 4,693,432, Cl. 242-74.000.
Ackel, Gary P.: *See—*
  Kaiser, Timothy D.; and Ackel, Gary P., 4,712,602, Cl. 164-453.000.
Ackelson, Donald B.; Moorehead, Eric L.; Ward, John W.; and Probst, Jon D., to Union Oil Company of California. Hydrocarbon refining process. 4,695,365, 9-22-87, Cl. 208-89.000.
Acker, Franklin L., to Neway Manufacturing, Inc. Hand-operated valve refacer. 4,637,762, 1-20-87, Cl. 408-203.500.
Acker, Jesse L.: *See—*
  Meserol, Peter M.; Acker, Jesse L.; Murnick, Janet G.; and Pappas, Dean, 4,666,853, Cl. 435-290.000.
  Meserol, Peter M.; and Acker, Jesse L., 4,683,120, Cl. 422-72.000.
Acker, Norbert. Intelligent display system for indicating successively occuring numerical values. 4,685,073, 8-4-87, Cl. 364-551.000.
Acker, Norman J.: *See—*
  Price, Macy J.; Johnson, Mack E.; and Acker, Norman J., 4,712,842, Cl. 312-196.000.
Acker, Peter B. Bulk demolition recycling system. 4,662,569, 5-5-87, Cl. 241-62.000.
Acker, William F., to Honeywell Inc. Compensator for charge transfer inefficiency in charge coupled devices. 4,672,644, 6-9-87, Cl. 377-58.000.
Ackeret, Peter, to IDN Inventions and Development of Novelties AG. Container having automatic doors and for accommodating data storage media. 4,640,415, 2-3-87, Cl. 206-387.000.
Ackeret, Peter. Container for storing recording media that are substantially plate-like. 4,647,117, 3-3-87, Cl. 312-12.000.
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Ackeret, Peter, to IDN Inventions and Development of Novelties AG. Apparatus for storing recording media. 4,655,344, 4-7-87, Cl. 206-307.000.
Ackeret, Peter, to Licinvest AG. Picture viewer. 4,674,209, 6-23-87, Cl. 40-513.000.
Ackeret, Peter, to Licinvest AG. Container for storing a stack of pictures. 4,691,456, 9-8-87, Cl. 40-10.00R.
Ackeret, Peter. Container for flat recording media. 4,694,957, 9-22-87, Cl. 206-309.000.
Ackeret, Peter, to IDN Inventions and Development of Novelties ag. Storage container for compact cassettes. 4,702,372, 10-27-87, Cl. 206-387.000.
Ackeret, Peter, to Ind Inventions and Development of Novelties AG. Container for a gramophone record or video disc. 4,705,166, 11-10-87, Cl. 206-309.000.
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Ackerman, Jerome L., to University of Cincinnati. Method for chemical and tomographic analysis of a moving object by nuclear magnetic resonance. 4,654,593, 3-31-87, Cl. 324-307.000.
Ackerman, Mitchell N.: *See—*
  Ackerman, Jerome B.; Ackerman, Thomas T.; Ackerman, Mitchell N.; and Hedberg, Herbert J., 4,665,621, Cl. 33-513.000.
Ackerman, Richard; Hurlbut, Donovan W.; and Jewer, Alan A., to News Log International, Inc. Method and apparatus for reading a data record carrier. 4,692,913, 9-8-87, Cl. 369-44.000.
Ackerman, Robert T., to Nicholson Manufacturing Company. Forwardly-projecting debarking tool barker arm. 4,653,559, 3-31-87, Cl. 144-208.00E.
Ackerman, Steven: *See—*
  Ryan, Douglas G.; and Ackerman, Steven, 4,702,817, Cl. 208-28.000.
Ackerman, Thomas T.: *See—*
  Ackerman, Jerome B.; Ackerman, Thomas T.; Ackerman, Mitchell N.; and Hedberg, Herbert J., 4,665,621, Cl. 33-513.000.
Ackermann, Fritz; Felle, Karl; and Hobbie, Dierk, to Carl-Zeiss-Stiftung. Computer-controlled evaluation of aerial stereo images. 4,669,048, 5-26-87, Cl. 364-525.000.
Ackermann, Gustav, to Claas OHG. Bale, baling press and method of baling. 4,703,605, 11-3-87, Cl. 53-176.000.
Ackermann, Henry A., to Honeywell Inc. Compartmented storage container. 4,648,524, 3-10-87, Cl. 220-22.000.
Ackermann, Horst W.; Masek, Petr; and Servaux, Jean, to Nestec S.A. Resealable pack. 4,679,701, 7-14-87, Cl. 220-404.000.
Ackermann, Max: *See—*
  Weik, Guenter; and Ackermann, Max, 4,642,891, Cl. 29-879.000.
Ackermann, Peter, to Ciba-Geigy Corporation. α-methyl-(6-phenoxy)-2-picolyl cyclopropanecarboxylates having pesticidal properties. 4,661,497, 4-28-87, Cl. 514-345.000.
Ackermann, Rolf, to Ta Triumph-Adler Aktiengesellschaft. Ribbon cassette with end of ribbon detector. 4,710,044, 12-1-87, Cl. 400-208.000.
Ackermann, Stephen J., to Caterpillar Inc. Pin retainer assembly. 4,650,207, 3-17-87, Cl. 280-515.000.
Ackern, Klaus: *See—*
  Forssmann, Bernd; Hepp, Wolfgang; Ackern, Klaus; and Chaussy, Christian, 4,685,461, Cl. 128-328.000.
Ackland, Martin R.; and D'Eath, Roderick M., to Metal Box p.l.c. Containers for use in detecting micro-organisms. 4,653,337, 3-31-87, Cl. 73-866.500.
Ackley, Charles E., Jr.; and Ross, Robert L., to R. Hartnett Company. Discrete solid object feeding and transport apparatus and method. 4,657,130, 4-14-87, Cl. 198-397.000.
Ackley, Charles E., Jr.: *See—*
  Ackley, Charles E., Sr.; and Ackley, Charles E., Jr., 4,682,683, Cl. 198-380.000.
Ackley, Charles E., Sr.; and Ackley, Charles E., Jr., to R. W. Hartnett Company. Method and apparatus for removing improperly oriented articles from a moving article. 4,682,683, 7-28-87, Cl. 198-380.000.
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Ackley, Donald E.; Engelmann, Reinhart W. H.; and Inouye, Teruko K., to Hewlett-Packard Company. Means for a self-aligned multilayer laser epitaxy structure device. 4,665,525, 5-12-87, Cl. 372-46.000.
Ackley, E. Michael. Apparatus for conveying and marking pellet-shaped articles. 4,672,892, 6-16-87, Cl. 101-35.000.
Acklin, John R.; Bush, Lee W.; Danna, Joseph J.; Devitt, John L.; and Rauh, George A., to Calgon Corporation. Photo-electric controlled dispenser. 4,645,094, 2-24-87, Cl. 222-52.000.
Ackman, Terry E.; and Place, John M., to United States of America, Interior. Acid mine water aeration and treatment system. 4,695,378, 9-22-87, Cl. 210-198.100.
Ackrad Laboratories, Inc.: *See—*
  Landis, Robert; and Kassay, Joseph E., 4,648,393, Cl. 128-200.230.
Acla, Howard L.: *See—*
  Ritsko, Joseph E.; and Acla, Howard L., 4,710,368, Cl. 423-344.000.
Acla, Howard L. R.: *See—*
  Ritsko, Joseph E.; Houck, David L.; and Acla, Howard L. R., 4,695,439, Cl. 423-263.000.
Acme/Containment Systems Corporation: *See—*
  Kailestad, John, 4,652,173, Cl. 405-69.000.
Acme Electric Corporation: *See—*
  Monsell, Kurt, 4,682,262, Cl. 361-6.000.
  Sutphin, Richard C.; Bell, Steven R.; and Monsell, Kurt, 4,710,694, Cl. 320-21.000.
Acme General Corporation: *See—*
  Jerila, Torsti T. T., 4,644,992, Cl. 160-213.000.
Acme P. W. Lenzen GmbH & Co. KG: *See—*
  Staszko, Wladyslaw, 4,709,627, Cl. 100-30.000.
Acme Plastics, Inc.: *See—*
  McQueen, Phillip J., 4,648,554, Cl. 238-283.000.
Acme Resin Corporation: *See—*
  Armbruster, David R.; and Pasion, Merlyn, 4,677,187, Cl. 528-232.000.
  Armbruster, David R., 4,694,905, Cl. 166-280.000.
  Armbruster, David R.; and Johnson, Calvin K., 4,713,294, Cl. 428-404.000.
  Iyer, Raja, 4,644,022, Cl. 523-144.000.
  Iyer, Raja; Shah, Rasik C.; and Laitar, Robert A., 4,657,950, Cl. 523-145.000.
  Iyer, Raja; and Shah, Rasik C., 4,668,759, Cl. 528-139.000.
  Laitar, Robert A.; and Gomez, Eduardo, 4,634,758, Cl. 528-129.000.
  Laitar, Robert A., 4,698,377, Cl. 523-143.000.
Acme United Corporation: *See—*
  MacConkey, James S.; Melville, Douglas F., Jr.; and Sharkany, Edward J., 4,644,944, Cl. 128-132.00D.
  Merrill, Richard E.; and Allard, Craig L., 4,638,797, Cl. 128-156.000.
  Sharkany, Edward J.; and O'Donnell, John C., 4,662,372, Cl. 128-321.000.
ACO Lakemedel AB: *See—*
  Borg, Bo I. B.; and Dudek, Peter P., 4,660,747, Cl. 222-213.000.
ACO Polymer Products, Inc.: *See—*
  Karbstein, Peter, 4,699,544, Cl. 405-118.000.
Acocella, Richard A., to Rice, Robert G., a part interest. Stylus pick for stringed musical instruments. 4,691,609, 9-8-87, Cl. 84-322.000.
Acock, George W., Jr., to Rhodes, James A. Elevator air lock. 4,637,176, 1-20-87, Cl. 52-30.000.
Acock, George W., Jr.: *See—*
  Wren, Michael; Lantz, Paul W.; Acock, George W., Jr.; and Rhodes, James A., 4,696,133, Cl. 52-80.000.

- Acoraci, Joseph H.; and Moeller, Alvin W., to Allied Corporation. Integral monitor system for circular phased array antenna. 4,639,732, 1-27-87, Cl. 342-371.000.
- Acorn Engineering Company: *See—*
  - Hafner, V. Walter; Hahn, Ron T.; and Marshall, Keith D., 4,682,533, Cl. 92-98.00R.
  - Hafner, V. Walter; Hahn, Ron T.; and Marshall, Keith D., 4,698,860, Cl. 4-624.000.
  - Morris, Earl L.; Sally, Theodore J.; and Hahn, Ron T., 4,659,059, Cl. 251-54.000.
- A'Costa, Anthony. Rifled gun barrel having smooth bore section. 4,660,312, 4-28-87, Cl. 42-76.010.
- Acoustic Industries, Inc.: *See—*
  - Halls, Kenneth F., 4,666,540, Cl. 156-98.000.
- Acqua-Tronics, Inc.: *See—*
  - Haddon, Merrill; and Moulton, Clifford H., 4,697,137, Cl. 324-512.000.
- Acquaviva, Thomas, to Xerox Corporation. Plural image document set copying. 4,684,241, 8-4-87, Cl. 355-14.0SH.
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- Acquista, Angelo. Bronchofiberscope. 4,683,874, 8-4-87, Cl. 128-6.000.
- ACR Electronics: *See—*
  - Rosenthal, James M., 4,696,045, Cl. 381-114.000.
- ACRA, Inc.: *See—*
  - Cook, Terry L., 4,647,352, Cl. 204-146.000.
- Acraloc Corporation: *See—*
  - Gundlach, Joseph C., 4,698,910, Cl. 30-275.000.
- Acres International Corporation: *See—*
  - Ali, Mohammad A.; Cotroneo, George V.; Rodrigue, Peter R.; and Smith, Robert T., 4,674,279, Cl. 60-398.000.
- Acres, William R., to United States of America, National Aeronautics and Space Administration. Preloadable vector sensitive latch. 4,682,745, 7-28-87, Cl. 244-161.000.
- Acrison, Inc.: *See—*
  - Ricciardi, Ronald J., 4,643,582, Cl. 366-102.000.
- AcroMed Corporation: *See—*
  - Steffee, Arthur D., 4,648,388, Cl. 128-69.000.
  - Steffee, Arthur D., 4,655,199, Cl. 128-69.000.
  - Steffee, Arthur D., 4,696,290, Cl. 128-69.000.
- Acrometal Products, Inc.: *See—*
  - Steinback, Clarence L., 4,704,823, Cl. 51-110.000.
- Acrow Pty. Limited: *See—*
  - Cockburn, Paul A., 4,644,816, Cl. 74-501.00R.
- Acrowood Corporation: *See—*
  - Plough, Irving L., 4,708,181, Cl. 144-249.00R.
- ACS Industries, Inc.: *See—*
  - Hartmann, Hans J., 4,683,01[illegible], Cl. 148-6.350.
- Acs, Maria; Faigl, Ferenc; and Fogassy, Elemer, to Alkaloida Vegyeszeti Gyar. Diastereomer salts of phenylalanine and N-acyl derivatives thereof and process for the separation of optically active phenylalanine and N-acyl derivatives thereof. 4,642,205, 2-10-87, Cl. 260-501.170.
- Acs, Tibor: *See—*
  - Szantay, Csaba; Honty, Katalin; Szabo, Lajos; Kevc. Tibor; and Acs, Tibor, 4,659,816, Cl. 540-478.000.
- ACT Laboratories, Inc.: *See—*
  - Hankison, Paul M., 4,647,212, Cl. 366-165.000.
- Actel Partnership: *See—*
  - Tucker, Michael; and Perriera, Noel D., 4,662,752, Cl. 356-375.000.
- Actief, N.V.: *See—*
  - Provost, George; and Ouellette, Marcel C., 4,654,246, Cl. 428-88.000.
  - Provost, George A.; Trask, William F.; and Rocha, Gerald F., 4,662,037, Cl. 24-447.000.
- Actief N.V., ABN Trust Company (Curacao) N.V.: *See—*
  - Provost, George A., 4,670,960, Cl. 29-415.000.
  - Provost, George A., 4,672,721, Cl. 24-442.000.
- Action Industries, Inc.: *See—*
  - Pine, James J., 4,674,794, Cl. 297-85.000.
  - Pine, James J., 4,681,365, Cl. 297-85.000.
- Action Manufacturing Company: *See—*
  - Avni, Yoav; and Leshner, Ervin, 4,670,921, Cl. 5-82.00R.
- Activision, Inc.: *See—*
  - Crane, David P., 4,644,495, Cl. 364-900.000.
- Acton, Edward M.; Ryan, Kenneth J.; and Tracy, Michael, to SRI International. C-glycosidic adriamycin analogs. 4,705,850, 11-10-87, Cl. 536-1.100.
- Actron, Inc.: *See—*
  - Lach, Ronald L.; and Welton, Randall R., 4,670,844, Cl. 364-436.000.
- Acu-Rite Incorporated: *See—*
  - Welker, Helmut, 4,672,201, Cl. 250-231.0SE.
- Acufex Microsurgical, Inc.: *See—*
  - Honkanen, George P.; Strahan, John C.; and Lichtman, Philip R., 4,655,752, Cl. 604-256.000.
  - Honkanen, George P., 4,712,545, Cl. 128-305.000.
  - Richards, William D.; and Lichtman, Philip R., 4,669,473, Cl. 128-334.00C.
- Acumeter Laboratories, Inc.: *See—*
  - McIntyre, Frederic S., 4,646,510, Cl. 53-449.000.
- Acushnet Company: *See—*
  - Gendreau, Paul M.; Llort, Francisco M.; and Berard, Raymond A., 4,692,497, Cl. 525-263.000.
  - Llort, Francisco M.; Gendreau, Paul M.; and Berard, Raymond A., 4,715,607, Cl. 273-218.000.
- Acuson: *See—*
  - Maslak, Samuel H.; and Larsen, Hugh G., 4,699,009, Cl. 73-626.000.
- Acuto, Giovanni: *See—*
  - Sburlati, Luigi; Acuto, Giovanni; and Stacchino, Giuseppe, 4,691,946, Cl. 248-429.000.
- Ad-Dom International Limited: *See—*
  - Allan, R. Robert, 4,688,343, Cl. 40-592.000.
- ADAC e.V.: *See—*
  - Czernakowski, Waldemar; Wetter, Hermann; and Felsch, Bernhard, 4,653,809, Cl. 297-487.000.
  - Klanner, Wilfried; Schmaler, Dieter H.; Wetter, Hermann; Felsch, Bernhard; and Czernakowski, Waldemar, 4,687,255, Cl. 297-488.000.
- Adac Laboratories, Inc.: *See—*
  - Stewart, Michael E., 4,636,850, Cl. 358-111.000.
- Adachi, Eiichi, to Ricoh Company, Ltd. Coding system for image processing apparatus. 4,682,215, 7-21-87, Cl. 358-75.000.
- Adachi, Eiichi, to Ricoh Company Ltd. Data transfer system. 4,682,241, 7-21-87, Cl. 358-261.000.
- Adachi, Eiichi: *See—*
  - Yoshioka, Nobuyuki; Okunishi, Yasuji; Miura, Yasuhisa; Mori, Yoshikazu; Kataoka, Yasuki; and Adachi, Eiichi, 4,659,739, Cl. 514-555.000.
- Adachi, Hideaki: *See—*
  - Kawaguchi, Takao; Adachi, Hideaki; Setsune, Kentaro; Ohji, Kenzo; and Wasa, Kiyotaka, 4,715,680, Cl. 350-96.340.
- Adachi, Hideki: *See—*
  - Komiya, Yutaka; Tomosada, Masahiro; Nakamura, Shinichi; Miyata, Masanori; Hirose, Masayuki; and Adachi, Hideki, 4,697,916, Cl. 355-14.00E.
  - Miyata, Masanori; Komiya, Yutaka; Nakamura, Shinichi; Hirose, Masayuki; Adachi, Hideki; and Tomosada, Masahiro, 4,641,954, Cl. 355-14.00R.
  - Tomosada, Masahiro; Miyata, Masanori; Adachi, Hideki; and Sato, Yukio, 4,674,863, Cl. 355-14.00E.
- Adachi, Hidenari: *See—*
  - Hirose, Sachio; Homma, Tammotsu; Kurihara, Takashi; Adachi, Hidenari; Sako, Yoshitaka; and Shibata, Makiko, 4,703,106, Cl. 530-307.000.
- Adachi, Hideo, to Nippon Flute, Co. Method and apparatus for sprinklerless snow control. 4,693,300, 9-15-87, Cl. 165-1.000.
- Adachi, Hiroshi: *See—*
  - Suzuki, Masami; Yamaguchi, Kouki; Katayama, Hisato; Muta, Tadayoshi; Okubo, Masakuni; Mochizuki, Akira; and Adachi, Hiroshi, 4,699,640, Cl. 55-385.00A.
- Adachi, Hiroyuki; and Saito, Takashi, to Canon Kabushiki Kaisha. Cleaning device. 4,639,123, 1-27-87, Cl. 355-15.000.
- Adachi, Hiroyuki: *See—*
  - Hoshika, Norihisa; Adachi, Hiroyuki; and Nakahata, Kimio, 4,699,499, Cl. 355-3.0CH.
- Adachi, Hisanobu: *See—*
  - Suzaki, Shunkichi; Shirai, Toshiaki; Adachi, Hisanobu; Hayashi, Masaharu; Hattori, Kenji; and Takakura, Yoshinari, 4,687,132, Cl. 236-35.000.
- Adachi, Ikuo; Hiramatsu, Yoshiharu; Ueda, Motohiko; and Kawakami, Masaru, to Shionogi & Co., Ltd. 4,7-dihydrothieno[2,3-B]pyridine derivatives useful in the treatment of cardiovascular diseases. 4,703,051, 10-27-87, Cl. 514-291.000.
- Adachi, Iwao P.; Adachi, Yoshifumi; and Frazer, Robert E. Real-time analysis keratometer. 4,692,003, 9-8-87, Cl. 351-212.000.
- Adachi, Katsumi: *See—*
  - Imori, Hideo; and Adachi, Katsumi, 4,683,390, Cl. 310-71.000.
- Adachi, Keiichi: *See—*
  - Kokubo, Tadayoshi; Ikeda, Tadashi; Adachi, Keiichi; Okazaki, Masaki; and Yoshida, Tetsuo, 4,657,846, Cl. 430-434.000.
- Adachi, Keiji: *See—*
  - Udaka, Shigezo; Ueyama, Hideo; Taniguchi, Junichi; and Adachi, Keiji, 4,656,037, Cl. 424-118.000.
- Adachi, Masaaki: *See—*
  - Tanaka, Hiroyoshi; Adachi, Masaaki; Tsuda, Yoshiyuki; Aoyama, Shigeo; Tanno, Satoshi; and Kato, Kaoru, 4,691,767, Cl. 165-151.000.
  - Tanaka, Hiroyoshi; Adachi, Masaaki; Tsuda, Yoshiyuki; Ando, Toshiaki; Nishiwaki, Humitoshi; and Aoyama, Shigeo, 4,715,437, Cl. 165-151.000.
- Adachi, Masahiko; Ono, Isao; and Ikeda, Hiroaki, to Nippon Hoso Kyokai; and Nippon Wave Guide Co., Ltd. Waveguide-mounted amplifier. 4,672,328, 6-9-87, Cl. 330-286.000.
- Adachi, Masahiro: *See—*
  - Enomoto, Hiroshi; Nomura, Tadatoshi; Aoyagi, Yoshiaki; Chokai, Shoichi; Fujita, Yukio; Kono, Tatsuhiko; Murase, Masao; Inoue, Kichiro; and Adachi, Masahiro, 4,711,898, Cl. 514-312.000.
- Adachi, Masakazu: *See—*
  - Asakura, Shoshiro; and Adachi, Masakazu, 4,643,896, Cl. 424-88.000.
- Adachi, Masao: *See—*
  - Goto, Yasuo; and Adachi, Masao, 4,679,465, Cl. 74-805.000.
- Adachi, Minoru: *See—*
  - Abe, Nobuhide; Adachi, Minoru; Ito, Makoto; and Uchida, Toshiya, 4,698,774, Cl. 364-477.000.
- Adachi, Mitsunori; and Tomita, Satoru, to Mitsubishi Kenki Kabushiki Kaisha. Band compression apparatus for a video signal. 4,707,737, 11-17-87, Cl. 358-133.000.
- Adachi, Mitsunori: *See—*
  - Tomita, Satoru; and Adachi, Mitsunori, 4,712,142, Cl. 358-285.000.

Adachi, Motoyuki: *See—*

Kohashi, Toru; and Adachi, Motoyuki, 4,709,770, Cl. 177-50.000.

Adachi, Muneo: *See—*

Ueda, Sigel; Matsumoto, Kozo; Kanaiwa, Kiyoshi; and Adachi, Muneo, 4,701,746, Cl. 340-347.0DD.

Adachi, Nobuo: *See—*

Mochida, Yoshihiro; Adachi, Nobuo; and Shirahama, Ichiro, 4,673,294, Cl. 356-381.000.

Adachi, Rensuke; and Takahashi, Tadashi, to Asahi Kogaku Kogyo Kabushiki Kaisha. Eyepiece and photographing device for fiberscope. 4,676,593, 6-30-87, Cl. 350-96.260.

Adachi, Sakashi: *See—*

Sato, Mitsuharu; Adachi, Sakashi; Kimura, Izumi; and Sugiyama, Shigeo, 4,670,965, Cl. 29-568.000.

Adachi, Shigeo: *See—*

Yanagiuchi, Noboru; Adachi, Shigeo; Inoue, Masatoshi; Takata, Hiroshi; and Matsuda, Toyoshi, 4,637,270, Cl. 74-336.500.

Adachi, Shiro. Washing apparatus for containers used to hold urine. 4,653,518, 3-31-87, Cl. 134-62.000.

Adachi, Takashi; and Hidaka, Hidemasa, to Meiji Seika Kaisha, Ltd. Sweetener. 4,681,771, 7-21-87, Cl. 426-658.000.

Adachi, Takashi: *See—*

Morimoto, Shigeo; Adachi, Takashi; Asaka, Toshifumi; Kashimura, Masato; Watanabe, Yoshiaki; and Sota, Kaoru, 4,670,549, Cl. 536-7.400.

Morimoto, Shigeo; Adachi, Takashi; Asaka, Toshifumi; Watanabe, Yoshiaki; and Sota, Kaoru, 4,680,386, Cl. 536-7.400.

Watanabe, Yoshiaki; Morimoto, Shigeo; Goi, Masami; Mitsukuchi, Morihiro; Adachi, Takashi; Nakagami, Jozi; Asaka, Toshifumi; Eguchi, Tadashi; and Sota, Kaoru, 4,672,109, Cl. 536-7.200.

Yamada, Toshiro; Fujisawa, Hiroshi; Goto, Kuniaki; Morimoto, Shigeo; Adachi, Takashi; and Watanabe, Yoshiaki, 4,668,776, Cl. 536-7.400.

Adachi, Toshikazu: *See—*

Nozaki, Hidetoshi; and Adachi, Toshikazu, 4,677,289, Cl. 250-226.000.

Teraji, Tsutomu; Kawada, Kazushige; Takeuchi, Toru; Sugita, Shinichi; Adachi, Toshikazu; and Yaqi, Hideo, 4,650,522, Cl. 106-314.000.

Adachi, Toshio, to Meishintoryo Co. Ltd. Surgical cement from amorphous tricalcium phosphate, poly(carboxylic acid) and water. 4,684,673, 8-4-87, Cl. 523-116.000.

Adachi, Toshio; Aoyagi, Toru; Kawaguchi, Akihisa; and Yamanaka, Shigeki, to Ohbayashi-Gumi, Ltd. Openable dome-shaped roof structure. 4,706,419, 11-17-87, Cl. 52-65.000.

Adachi, Toshiro: *See—*

Mizuuchi, Kiyoshi; Mizuuchi, Michiyo; and Adachi, Toshiro, 4,716,105, Cl. 435-5.000.

Adachi, Tsukasa; Shinguryo, Satoshi; Furuta, Hideya; Sakai, Yoshihiro; Ikeda, Itsuo; and Sakai, Katsuo, to Ricoh Company, Ltd. Multicolored image forming apparatus. 4,655,579, 4-7-87, Cl. 355-4.000.

Adachi, Tsukasa: *See—*

Koizumi, Yutaka; Furuta, Hideya; Sakai, Yoshihiro; Mamizuka, Mitsuru; Adachi, Tsukasa; Ikeda, Itsuo; and Sakai, Katsuo, 4,664,501, Cl. 355-4.000.

Sakai, Yoshihiro; Ikeda, Ituso; Sakai, Katsuo; Adachi, Tsukasa; Shinguryo, Satoshi; and Furuta, Hideya, 4,690,541, Cl. 355-4.000.

Adachi, Tsunenari: *See—*

Muto, Yoshihiko; Ohashi, Toshio; and Adachi, Tsunenari, 4,691,862, Cl. 237-12.30A.

Adachi, Yoshifumi: *See—*

Adachi, Iwao P.; Adachi, Yoshifumi; and Frazer, Robert E., 4,692,003, Cl. 351-212.000.

Adachi, Yoshiharu; Saitoh, Tadao; and Nishimura, Takumi, to Aisin Seiki Kabushiki Kaisha. Anti-skid braking control system. 4,636,008, 1-13-87, Cl. 303-92.000.

Adachi, Yoshiharu; Nishimura, Takumi; Saito, Tadao; Shibata, Hirochika; Nakanishi, Nobuyasu; Shirai, Akira; and Noguchi, Noboru, to Aisin Seiki Kabushiki Kaisha; and Toyota Jidosha Kabushiki Kaisha. Antiskid apparatus for vehicles. 4,636,010, 1-13-87, Cl. 303-115.000.

Adachi, Yoshiharu; Fujimori, Fumio; Kondo, Toshio; Uemura, Hiroshi; and Shibatani, Juichi, to Aisin Seiki Kabushiki Kaisha; and Toyota Jidosha Kabushiki Kaisha. Pin boot protector in disc brake assembly. 4,662,484, 5-5-87, Cl. 188-73.450.

Adachi, Yoshiharu; Fujimori, Fumio; Kondo, Toshio; Uemura, Hiroshi; and Shibatani, Juichi, to Aisin Seiki Kabushiki Kaisha; and Toyota Jidosha Kabushiki Kaisha. Sealing boot for use in disc brake assembly. 4,678,064, 7-7-87, Cl. 188-73.450.

Adachi, Yoshimitsu: *See—*

Terada, Shinichi; Masuda, Kozo; and Adachi, Yoshimitsu, 4,635,131, Cl. 358-296.000.

Adachi, Yoshitugu: *See—*

Yada, Akira; Matsumoto, Shusaku; Kawamori, Yoshihiro; Saito, Takao; Nishiyama, Tadashi; and Adachi, Yoshitugu, 4,647,598, Cl. 522-3.000.

Yada, Akira; Matsumoto, Shusaku; Ka[illegible]i, Yoshihiro; Saito, Takao; Nishiyama, Tadashi; and A[illegible]shitugu, 4,690,788, Cl. 264-22.000.

Adair, Harold L., to W-N Apache Corporation. Method of positioning a transfer arm. 4,708,581, 11-24-87, Cl. 414-[illegible]0.

Adair, James R., to United Engineering Rolling Mills, Inc. Apparatus for removing liquid from a strip in a rolling mill and method thereof. 4,691,549, 9-8-87, Cl. 72-38.000.

Adair, Paul C.; and McLain, Michael K., to Mead Corporation, The. Thermal development of photosensitive materials employing microencapsulated radiation sensitive compositions. 4,663,266, 5-5-87, Cl. 430-138.000.

Adair, Paul C.; Hillenbrand, Gary F.; and Davis, Paul D., to Mead Corporation, The. Imaging system employing photosensitive microcapsules containing 3-substituted coumarins and other photobleachable sensitizers. 4,713,312, 12-15-87, Cl. 430-138.000.

Adair, Paul C.: *See—*

Wright, Richard F.; Adair, Paul C.; and Sanders, Frederick W., 4,687,725, Cl. 430-138.000.

Adam, Bernd, to Siemens Aktiengesellschaft. Contact arrangement with spacers separating contact levers from each other. 4,709,127, 11-24-87, Cl. 200-146.00R.

Adam, Colin M., to United Technologies Corporation. Dispersion strengthened aluminum alloys. 4,647,321, 3-3-87, Cl. 148-415.000.

Adam, Colin M.: *See—*

Skinner, David J.; Okazaki, Kenji; and Adam, Colin M., 4,661,172, Cl. 148-12.70A.

Skinner, David J.; Bye, Richard L., Jr.; Okazaki, Kenji; and Adam, Colin M., 4,715,893, Cl. 75-249.000.

Adam, Fritz G., to ITT Industries, Inc. CMOS memory cell having an electrically floating storage gate. 4,686,558, 8-11-87, Cl. 357-42.000.

Adam, Gunter, to PUMA AG Rudolf Dassler Sport. Racket, especially a tennis racket, having a grip sleeve with spring elements. 4,691,926, 9-8-87, Cl. 273-73.00J.

Adam, Helmut: *See—*

Vollmer, Elmar; Hofmann, Jens; and Adam, Helmut, 4,703,827, Cl. 180-232.000.

Adam, Jean-Marie, to Ciba-Geigy Corporation. Benzoquinophthalone quaternary ammonium salt derivatives. 4,656,268, 4-7-87, Cl. 544-126.000.

Adam, Jean-Marie; and Buhler, Arthur, to Ciba-Geigy Corporation. Halogen substituted amidoglycolic acids. 4,667,057, 5-19-87, Cl. 562-567.000.

Adam, Jean-Marie: *See—*

Bloch, Peter; and Adam, Jean-Marie, 4,645,626, Cl. 260-383.000.

Bowles, James B.; White, Marshall, Jr.; Puntener, Alois; Adam, Jean-Marie; and Loew, Peter, 4,652,269, Cl. 8-641.000.

Bowles, James B.; White, Marshall, Jr.; Puentener, Alois; Adam, Jean-Marie; and Loew, Peter, 4,693,727, Cl. 8-549.000.

Lacroix, Roger; Adam, Jean-Marie; and Vincze, Janos, 4,695,406, Cl. 260-372.000.

Stingelin, Willy; and Adam, Jean-Marie, 4,652,645, Cl. 544-198.000.

Adam, John D.; and Daniel, Michael R., to United States of America, Air Force. Magnetostatic delay line with improved delay linearity. 4,675,682, 6-23-87, Cl. 342-375.000.

Adam-Molina, Solange, to Hoffmann-La Roche Inc. Penicillanic acid derivatives. 4,647,457, 3-3-87, Cl. 424-114.000.

Adam, Peter; and Knappe, Wolfram, to Siemens Aktiengesellschaft. Worm gear train arrangement and housing. 4,643,040, 2-17-87, Cl. 74-425.000.

Adam, Peter; and Michel, Peter, to Siemens Aktiengesellschaft. Closed motor/transmission unit. 4,713,568, 12-15-87, Cl. 310-112.000.

Adam, Roger F. J. Pre-bolting system for underground mines. 4,653,810, 3-31-87, Cl. 299-11.000.

Adamantech, Inc.: *See—*

Tamborski, Christ; and Clark, Leland C., Jr., 4,640,833, Cl. 424-5.000.

Adamchick, John T.: *See—*

Leue, William M.; Hodsoll, Raymond J., Jr.; Glover, Gary H.; and Adamchick, John T., 4,680,547, Cl. 324-309.000.

Adame, Javier, to LGZ Landis & Gyr Zug AG. Method for forming information carrying signals in an electrical power supply network. 4,654,630, 3-31-87, Cl. 340-310.00R.

Adamek, Frank C.; and Bridges, Charles D., to Vetco Gray Inc. Temperature transient resistant seal. 4,709,933, 12-1-87, Cl. 277-167.500.

Adamo, Michael D.: *See—*

Hickernell, Frederick S.; Adamo, Michael D.; and Cho, Frederick Y. T., 4,668,909, Cl. 324-56.000.

Adams, Alton W.: *See—*

Jurczenia, Edward; and Adams, Alton W., 4,646,933, Cl. 220-366.000.

Adams, Carl F. Energy producing apparatus. 4,715,182, 12-29-87, Cl. 60-495.000.

Adams, Cedric: *See—*

Curtin, William J.; Adams, Cedric; and Soto, Stephen H., 4,674,116, Cl. 379-211.000.

Adams, Charles T.: *See—*

Maas, Lawrence W.; Geiman, Richard A.; and Adams, Charles T., 4,701,254, Cl. 208-26.000.

Adams, D. Carlos. Countercurrent heat transfer device for solid particle streams. 4,639,217, 1-27-87, Cl. 432-107.000.

Adams, Daniel. Game playing implement. 4,643,426, 2-17-87, Cl. 273-148.00R.

Adams, Danny R. Mobile spray applicator and method of spraying forage. 4,662,163, 5-5-87, Cl. 56-341.000.

Adams, Don L.: *See—*

Wright, Stuart C.; Stiles, Lorren, Jr.; and Adams, Don L., 4,696,445, Cl. 244-229.000.

Adams, Donald L. Static overpressure protection system for differential pressure transducer. 4,668,889, 5-26-87, Cl. 310-338.000.

Adams, Donald T.; and Gray, R. William, to SCM Corporation. Spelling error finding feature including an electronic spelling dictionary. 4,655,620, 4-7-87, Cl. 400-63.000.

Adams Elevator Equipment Company: *See—*

Martin, Adolf H., 4,689,456, Cl. 200-43.080.

Adams, Frederick J., to TRW Cam Gears Limited. Valve assemblies. 4,633,907, 1-6-87, Cl. 137-625.220.
Adams, Frederick J., to TRW Cam Gears Limited. Vehicle control system. 4,645,026, 2-24-87, Cl. 180-132.000.
Adams, Frederick J., to TRW Cam Gears Limited. Power assistance steering system for a vehicle. 4,651,841, 3-24-87, Cl. 180-142.000.
Adams, Frederick J., to TRW Cam Gears Limited. Power assisted steering system. 4,676,335, 6-30-87, Cl. 180-148.000.
Adams, Gary V.; Dahle, David P.; and Kirchoff, George, to Morton Thiokol, Inc. Inflator and remote sensor with through bulkhead initiator. 4,699,400, 10-13-87, Cl. 280-731.000.
Adams, George W. Township, city and regional land arrangement. 4,679,363, 7-14-87, Cl. 52-169.300.
Adams, Glen L.; and Messelt, Christopher D., to Dow Chemical Company, The. Process for preparing hydroxyalkylcellulose ethers. 4,661,589, 4-28-87, Cl. 536-91.000.
Adams, Glen O.; Sturgeon, Gerald E.; and Scheldorf, Gary O., to General Electric Company. Rotary compressor with reduced friction between vane and vane slot. 4,664,608, 5-12-87, Cl. 418-63.000.
Adams, Graham; and Jones, Martin A., to Dow Corning, Ltd. Foam control. 4,690,688, 9-1-87, Cl. 44-76.000.
Adams, Graham L.; and Durrant, Richard C. E., to STC plc. Optical fibre connector having particular utility for underwater use. 4,696,540, 9-29-87, Cl. 350-96.210.
Adams, Guy E., to Honeywell Inc. Missile system for naval use. 4,643,373, 2-17-87, Cl. 244-3.190.
Adams Hard-Facing Company, Inc.: *See—*
  Edmisson, Delmar D., 4,645,013, Cl. 172-730.000.
Adams, Harry A.: *See—*
  Kiikka, Oliver A.; and Adams, Harry A., 4,650,559, Cl. 204-294.000.
Adams, J. Robert, Jr.: *See—*
  Ailcock, Harry R.; Stinnett, S. James; Tedder, Joseph B., Jr.; and Adams, J. Robert, Jr., 4,656,017, Cl. 423-300.000.
  Chang, Suae-Chen; Tedder, Joseph B., Jr.; and Adams, J. Robert, Jr., 4,656,246, Cl. 528-499.000.
  Sulzer, Gerald M.; Tedder, Joseph B., Jr.; Adams, J. Robert, Jr.; and Juneau, Matthew K., 4,656,018, Cl. 423-300.000.
  Tedder, Joseph B., Jr.; and Adams, J. Robert, Jr., 4,663,138, Cl. 423-300.000.
Adams, James H.; Burgess, Jerry L.; and Wagers, William C., to Combustion Engineering, Inc. Segmented electrode collecting panel assembly. 4,640,695, 2-3-87, Cl. 55-130.000.
Adams, Jay J. Sanitary tamperproof double closure container end cap. 4,699,290, 10-13-87, Cl. 220-258.000.
Adams, John F. Tank cart. 4,666,179, 5-19-87, Cl. 280-655.000.
Adams, John L.: *See—*
  Booth, David E.; Smith, Steven G.; and Adams, John L., 4,678,448, Cl. 445-60.000.
Adams, John M., to Atlas Casing Company, Inc. Knife assembly for cutting sausage casings. 4,708,044, 11-24-87, Cl. 83-545.000.
Adams, John T.; and Bohan, John E., Jr., to Honeywell Inc. Printed wiring board means with isolated voltage source means. 4,641,043, 2-3-87, Cl. 307-117.000.
Adams, John T.; and Mueller, Dale A., to Honeywell Inc. Furnace fan control. 4,684,060, 8-4-87, Cl. 236-11.000.
Adams, John T.; and Goodale, John B., to Emerson Electric Co. Gas burner control system with mass flow sensor. 4,712,996, 12-15-87, Cl. 431-20.000.
Adams, Joseph S., to Joseph Adams Technical Arts Ltd. Differential piston and valving system for detonation device. 4,665,868, 5-19-87, Cl. 123-46.0SC.
Adams, Joseph S.; and Branston, Paul G., to Pow-R Tools Corporation. Manual recycler for detonating impact tool. 4,712,379, 12-15-87, Cl. 60-632.000.
Adams, Jurgen: *See—*
  Koch, Siegfried; Adams, Jurgen; and Goedecke, Wolf-Dieter, 4,646,870, Cl. 180-336.000.
Adams, Kenneth D., to SSMC Inc. Sewing machine bed slide retention. 4,694,763, 9-22-87, Cl. 112-184.000.
Adams, Kenneth J.; and Dyke, David E., to Clevite Industries Inc. Method of bonding a high temperature resistant polymeric material to an aluminum base substrate and article therefrom. 4,648,910, 3-10-87, Cl. 148-6.200.
Adams, Kenneth M.: *See—*
  Faiz, Robert L.; Walker, William J.; Ramey, Philip; Adams, Kenneth M.; Flonc, Nicholas P.; and Nguyen, Dean, 4,681,724, Cl. 264-257.000.
Adams, Larry R.: *See—*
  Fundak, Davorin; and Adams, Larry R., 4,689,674, Cl. 358-139.000.
Adams Mfg.: *See—*
  Adams, William E., 4,690,272, Cl. 206-45.280.
Adams, Mark J.; and Crisman, Elton M., Jr., to Lockheed Corporation. Method of and apparatus for detecting corrosion utilizing infrared analysis. 4,647,220, 3-3-87, Cl. 374-5.000.
Adams, Martin E.: *See—*
  Johnson, Steven L.; Adams, Martin E.; Leffingwell, James P.; Musser, John J.; Hedges, William H.; and Robberts, Thomas L., 4,669,242, Cl. 52-404.000.
Adams, Michael. Raised grip shovel. 4,690,447, 9-1-87, Cl. 294-57.000.
Adams, Michael A.: *See—*
  Johnsen, Peter B.; and Adams, Michael A., 4,693,897, Cl. 426-2.000.
Adams, Neil R., to Advanced Micro Devices, Inc. Low order charge-pump filter. 4,668,918, 5-26-87, Cl. 328-155.000.
Adams, Neil R.; and Clapp, Craig S. K., to Advanced Micro Devices, Inc. Apparatus for synchronization of a first signal with a second signal. 4,675,612, 6-23-87, Cl. 328-63.000.
Adams, Neil R., to Advanced Micro Devices, Inc. Phase detector apparatus including charge pump means. 4,686,481, 8-11-87, Cl. 328-133.000.
Adams, Nina M. Nina's Buttercup-Tihitian squash. 4,713,491, 12-15-87, Cl. 800-1.000.
Adams, Norman S.; and Molloy, Robert E., to Avondale Industries, Inc. Automatic actuating and locking apparatus for the hopper doors of a railroad hopper car. 4,688,488, 8-25-87, Cl. 105-253.000.
Adams, Paul E.; and Luciani, Carmen V., to Lubrizol Corporation, The. Coupled phosphorus-containing amides, precursors thereof and lubricant compositions containing same. 4,670,169, 6-2-87, Cl. 252-46.700.
Adams, Peter F.; and Cowan, Colin F. N., to British Telecommunications plc. Adaptive digital filter. 4,694,451, 9-15-87, Cl. 370-32.100.
Adams, Philip E.; McGowan, Michael J.; and Yunan, Malak E., to Du Pont de Nemours, E. I., and Company. Explosive primer and carrier therefor. 4,637,312, 1-20-87, Cl. 102-275.120.
Adams, Phillip A.: *See—*
  Browning, Michael R.; Cronk, Evelyn I.; and Adams, Phillip A., 4,642,945, Cl. 52-10.000.
Adams, Priscilla L.; and Farcasiu, Malvina, to Mobil Oil Corporation. Catalytic dewaxing process. 4,642,176, 2-10-87, Cl. 208-111.000.
Adams, Richard C., to Pfizer Inc. Process for sultamicillin intermediate. 4,704,456, 11-3-87, Cl. 540-310.000.
Adams, Richard L.: *See—*
  Bosworth, Michael A.; Adams, Richard L.; and Wheaton, Bruce, 4,655,799, Cl. 55-273.000.
Adams Rite Manufacturing Co.: *See—*
  Logas, Duane K., 4,643,005, Cl. 70-95.000.
Adams, Robert T.; and Erickson, Ronald. Non-alterable magnetic coding. 4,639,584, 1-27-87, Cl. 235-449.000.
Adams, Robert W. Condensing sub-cooler for refrigeration systems. 4,694,662, 9-22-87, Cl. 62-509.000.
Adams, Roman A.: *See—*
  Wolff, Donald L.; McCauley, Porter T.; Stiefel, Paul; Takacs, Gyoergy J.; and Adams, Roman A., 4,715,786, Cl. 417-22.000.
Adams, Ronald D.: *See—*
  Chia, E. Henry; and Adams, Ronald D., 4,679,613, Cl. 164-453.000.
Adams, Ronald F.: *See—*
  Weil, David M.; Lieberman, Burton E.; and Adams, Ronald F., 4,687,698, Cl. 428-209.000.
Adams, Ronald J., to Rolls-Royce plc. Integral rocket and ramjet engine. 4,651,523, 3-24-87, Cl. 60-245.000.
Adams, Ronald L.: *See—*
  McCullough, Robert W.; Peoples, Clarence A.; Sacks, Maurice J.; Adams, Ronald L.; Kapfer, Klaus; and Talbott, Graham M., 4,663,103, Cl. 264-40.400.
Adams-Russell Company, Inc.: *See—*
  Fowler, Wayne D., 4,642,586, Cl. 333-122.000.
  Smith, Kenneth L., 4,641,110, Cl. 333-12.000.
Adams, Samuel G., to Bristol-Myers Company. Label assembly with verifying means and method of making and using. 4,645,239, 2-24-87, Cl. 283-70.000.
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Adams, Sherman C., to Alcan Aluminum Corporation. Roller assembly with stabilizer elements for sliding panels. 4,639,970, 2-3-87, Cl. 16-90.000.
Adams, Stanley L.: *See—*
  Zald, Roberta L.; Adams, Stanley L.; and Welch, David P., 4,676,447, Cl. 242-58.400.
Adams, Steven P.; Towler, Dwight A.; and Glaser, Luis, to Washington University. Novel inhibitor peptides. 4,709,012, 11-24-87, Cl. 530-328.000.
Adams, Steven P.: *See—*
  Tjoeng, Foe S.; Fok, Kam F.; and Adams, Steven P., 4,716,147, Cl. 514-11.000.
Adams, Theodore, to Medtronic, Inc. Automatic implantable defibrillator and pacer. 4,693,253, 9-15-87, Cl. 128-419.00D.
Adams Veterinary Research Laboratories: *See—*
  Allan, G. Graham; and Miller, Thomas A., 4,668,666, Cl. 514-63.000.
Adams, Victor J.; Black, James R.; and Gempe, Horst A., to Motorola, Inc. Method of making an octocoupler. 4,645,551, 2-24-87, Cl. 156-82.000.
Adams, Victor J., to Motorola, Inc. Unibody pressure transducer package. 4,655,088, 4-7-87, Cl. 73-756.000.
Adams, Victor J.; and Schofield, Brooks L., Jr., to Motorola, Inc. Axial pressure sensor. 4,683,757, 8-4-87, Cl. 73-756.000.
Adams, Victor J.; and Derrington, Carl E., to Motorola, Inc. Membrane protected pressure sensor. 4,686,764, 8-18-87, Cl. 29-592.000.
Adams, William C., Jr.; and Patisaul, Charles R., to Harris Corporation. Maximum likelihood estimation of G/T of satellite earth terminals using extraterrestrial radio sources. 4,684,955, 8-4-87, Cl. 342-351.000.
Adams, William E., to Adams Mfg. Container display. 4,690,272, 9-1-87, Cl. 206-45.280.
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  Baldasarri, Mario; Adams, William R., and Caspers, John, 4,707,245, Cl. 208-57.000.
  Van Driesen, Roger P.; Adams, William R.; Caspers, John; Baldasarri, Mario; and Trimble, Harold, 4,684,456, Cl. 208-143.000.

Adams, William W., to Industrial Iron Works, Incorporated. Ground wheel takeoff system for fertilizer spreaders or the like. 4,703,818, 11-3-87, Cl. 180-53.600.

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- Dabrowski, Roman; Dziaduszek, Jerzy; Szulc, Jaroslaw; Witkiewicz, Zygfryd; Stolarz, Zofia; Kenig, Krystyna; and Adamska, Gabriela, 4,676,924, Cl. 252-299.610.

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Adamski, Joseph A.: *See—*
- Ahern, Brian S.; and Adamski, Joseph A., 4,681,995, Cl. 219-10.510.

Adamson, Fletcher D.; and Caldwell, James M., to Russell Corporation. Automatic garment portion loader. 4,633,604, 1-6-87, Cl. 38-2.000.

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Adamson, John: *See—*
- Riding, Kenneth; and Adamson, John, 4,682,905, Cl. 403-327.000.

Adamtek Corporation: *See—*
- Wong, Jacob Y.; Khuri-Yakub, Pierre; Motamedi, M. Ed; and Wong, Marcus Y., 4,691,714, Cl. 128-738.000.

Adaniya, George: *See—*
- Epstein, Paul; Petschek, Harry; LaWhite, Eric; Strohl, Clair; Coyne, Henry; Kaleskas, Edward; and Adaniya, George, 4,696,671, Cl. 604-67.000.
- Fenton, Paul V., Jr.; Young, Thomas M.; Adaniya, George; Denis, Richard E.; Miller, Robert L.; and Santin, Ernest M., 4,652,260, Cl. 604-67.000.

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- Caldwell, Donald B.; and Spring, Robert J., 4,711,299, Cl. 166-105.100.

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Adaway, Timothy J., to Dow Chemical Company, The. Catalyzed alkylation of halopyridinates in the absence of added organic solvents 4,701,531, 10-20-87, Cl. 546-297.000.

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- Trainor, Willis H., 4,638,411, Cl. 362-145.000.

ADC Fiber Optics Corporation: *See—*
- Roberts, Harold, 4,701,010, Cl. 350-96.150.

ADC Telecommunications, Inc.: *See—*
- Bradley, James D.; and Pfeffer, George B., 4,710,138, Cl. 439-581.000.
- Dewey, James D.; Pedersen, Matthew G.; and Gonier, Larry W., 4,663,838, Cl. 29-751.000.
- Dinsmore, Jeffrey P.; and Pfeffer, George B., 4,693,537, Cl. 439-399.000.
- Nault, Gary F.; and Singer, Loren A., 4,676,568, Cl. 439-169.000.
- Pfeffer, George B., 4,682,412, Cl. 29-750.000.
- Pitsch, Daniel M., 4,679,880, Cl. 439-404.000.
- Pitsch, Daniel M., 4,685,755, Cl. 439-404.000.
- Pohl, Karl H., 4,671,595, Cl. 439-399.000.
- Pohl, Karl H., 4,688,872, Cl. 439-404.000.
- Uttermark, John A., 4,675,861, Cl. 370-4.000.

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Adcock, James L.: *See—*
- Potter, Ronald W.; and Adcock, James L., 4,654,808, Cl. 364-553.000.

Adcock, Jimmy L., to M. L. Eakes Co. Leakproof endless belt conveyor. 4,674,626, 6-23-87, Cl. 198-811.000.

Adcock, John T., to Sasakai Pty. Limited. Shellfish processing. 4,663,805, 5-12-87, Cl. 17-48.000.

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- Damm, Sture, 4,656,846, Cl. 68-207.000.

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Addis, John L., to Tektronix, Inc. Rotary control having variable detents. 4,647,889, 3-3-87, Cl. 335-253.000.

Addis, John L., to Tektronix, Inc. Voltage-controlled push-pull current source. 4,667,146, 5-19-87, Cl. 323-316.000.

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Addis, John L., to Tektronix, Inc. Active filter with bootstrapping. 4,713,627, 12-15-87, Cl. 330-306.000.

Addis, John L., to Tektronix, Inc. Precision differential amplifier having fast overdrive recovery. 4,714,896, 12-22-87, Cl. 330-261.000.

Addison, Barrie D. G. Tongue and groove tapered planks. 4,700,524, 10-20-87, Cl. 52-593.000.

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- Cagle, J. Douglas; Olson, Harold D.; and Addison, Charles, 4,634,594, Cl. 426-393.000.

Addison, Gordon D., to Gutterfast Limited. Roll forming apparatus. 4,656,858, 4-14-87, Cl. 72-181.000.

Additive Technology Corporation: *See—*
- DesMarais, Raymond C., Jr., 4,664,962, Cl. 428-137.000.

Addleman, David A.; and Addleman, Lloyd A., to Cyberware Laboratory Inc. Rapid three-dimensional surface digitizer. 4,705,401, 11-10-87, Cl. 356-376.000.

Addleman, Jeffrey L., to Kidde, Inc. Forklift variable reach mechanism. 4,674,944, 6-23-87, Cl. 414-708.000.

Addleman, Lloyd A.: *See—*
- Addleman, David A.; and Addleman, Lloyd A., 4,705,401, Cl. 356-376.000.

Addor, Roger W.; Wright, Donald P., Jr.; Siddens, Jack K.; and Hand, John J., to American Cyanamid Company. Insecticidal uses of diaminoguanidine hydrazone compounds. 4,649,148, 3-10-87, Cl. 514-321.000.

Adduci, Robert L.: *See—*
- Spisak, Andrew M.; and Adduci, Robert L., 4,660,688, Cl. 188-299.000.

ADE Corporation: *See—*
- Mallory, Roy, 4,646,009, Cl. 324-158.00R.
- Poduje, Noel S., 4,692,695, Cl. 324-158.00R.

Adee, Ray A.: *See—*
- Applequist, Roy E.; Johnson, Eric; and Adee, Ray A., 4,664,202, Cl. 172-311.000.

Adeka Argus Chemical Co., Ltd.: *See—*
- Akutsu, Mitsuo; and Kanai, Mitsuharu, 4,707,507, Cl. 524-99.000.
- Haruna, Tohru; Nishimura, Atsushi; and Sugibuchi, Kazuo, 4,661,597, Cl. 546-242.000.
- Haruna, Tohru; Nishimura, Atsushi; and Sugibuchi, Kazuo, 4,663,459, Cl. 546-242.000.
- Kubota, Naohiro; and Nishimura, Atsushi, 4,681,905, Cl. 524-91.000.
- Kubota, Naohiro; and Nishimura, Atsushi, 4,684,679, Cl. 524-91.000.
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- Leistner, William E.; Nakahara, Yutaka; Hirai, Bunji; and Kanai, Mitsuharu, 4,692,485, Cl. 524-99.000.
- Minagawa, Motonobu; Nakahara, Yutaka; Shibata, Toshihiro; and Arata, Ryozo, 4,673,701, Cl. 524-99.000.
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Adell, Robert, to U.S. Product Development Company. Hip belt. 4,639,948, 2-3-87, Cl. 2-338.000.

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Adell, Robert, to U.S. Product Development Company. Door corner edge guard. 4,674,233, 6-23-87, Cl. 49-462.000.

Adell, Robert, to U.S. Product Development Company. Door edge guard. 4,677,790, 7-7-87, Cl. 49-462.000.

Adell, Robert, to U.S. Product Development Company. Method of de-emphasizing the gap between a door edge and adjacent structure. 4,679,290, 7-14-87, Cl. 29-407.000.

Adell, Robert, to U.S. Product Development Company. Method of making printed circuits. 4,682,415, 7-28-87, Cl. 29-846.000.

Adell, Robert, to U.S. Product Development Company. Door edge guard and method. 4,682,442, 7-28-87, Cl. 49-462.000.

Adell, Robert, to U.S. Product Development Company. Painted insulated metal edge guard and method. 4,697,327, 10-6-87, Cl. 29-527.400.

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Adelman, Arnold: *See—*
- Hogan, Thomas C.; and Adelman, Arnold, 4,639,936, Cl. 375-36.000.

Adelman, Menachem J. Automatic camera winding apparatus. 4,657,365, 4-14-87, Cl. 354-173.100.

Adelman, Roger A. Method for quantitatively measuring a hearing defect. 4,637,402, 1-20-87, Cl. 128-746.000.

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Adelson, Edward H., to RCA Corporation. Depth-of-focus imaging process method. 4,661,986, 4-28-87, Cl. 382-41.000.

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- Burt, Peter J.; and Adelson, Edward H., 4,698,843, Cl. 382-54.000.

Adelstein, Gilbert W.; Moormann, Alan E.; and Yu, Stella S. T., to G. D. Searle & Co. 2-[(Imidazo[1,2-a]pyridinylmethyl)sulfinyl]-1H-benzimidazoles. 4,687,775, 8-18-87, Cl. 514-300.000.

Adema Maskin AB: *See—*
- Kovasna, Lars; and Hornberg, Gunnar, 4,666,388, Cl. 425-62.000.

Aden, Bodo: *See—*
- Hollerweger, Heinz; Aden, Bodo; Kuipers, Geert; and van den Boom, Johannes, 4,671,227, Cl. 123-192.00R.

Adenauer, Ernst: *See—*
- Balduin, Franz; and Adenauer, Ernst, 4,638,876, Cl. 177-139.000.

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Adeney, Hilary E.; and Hall, Derrard M., to Dulux Australia Ltd. Multi-component coating compositions. 4,696,957, 9-29-87, Cl. 523-406.000.

Adenier, Herve: *See—*
- Chaveron, Henri; Pontillon, Jean; Billon, Michel; Adenier, Herve; and Kamoun, Ahmed, 4,679,498, Cl. 99-483.000.

  Chaveron, Henri; Pontillon, Jean; Billon, Michel; Adenier, Herve; and Kamoun, Ahmed, 4,713,256, Cl. 426-631.000.
Adenis, Daniel J.: *See—*
  Wada, Tsuguyasu; Adenis, Daniel J.; and Cox, Thomas B., 4,662,429, Cl. 164-461.000.
Adept Technology, Inc.: *See—*
  Carlisle, Brian R.; Witham, Carl R.; Allan, Donald R.; and Meadows, John W., 4,702,668, Cl. 414-744.00R.
Ader, Joseph R.: *See—*
  Dischert, Robert A.; Ader, Joseph R.; and Topper, Robert J., 4,684,977, Cl. 358-31.000.
Aderski, Pentcho K.: *See—*
  Popov, Entcho N.; Stanilov, Krestyo A.; Apostolov, Rumen K.; Dundarov, Pantcho G.; Radkov, Peyu V.; Aderski, Pentcho K.; and Georgiev, Georgi A., 4,695,754, Cl. 310-156.000.
Ades, Adrian R.; and Schmidt, George S., to General Electric Company. Turbine rotor heating, disassembly, handling and reassembly method and apparatus. 4,635,336, 1-13-87, Cl. 29-252.000.
Adet, Bruno; Gudin, Claude; and Thepenier, Catherine, to Commissariat a l'Energie Atomique. Transparent polyurethane foam wall. 4,689,301, 8-25-87, Cl. 435-284.000
Adex, Inc.: *See—*
  Koch, Charles P., 4,642,946, Cl. 52-38.000.
Adger, Brian M., to Smith Kline & French Laboratories Limited. Chemical process. 4,677,228, 6-30-87, Cl. 564-218.000.
Adhesive Engineering Company: *See—*
  Eisenhut, Wolfgang O.; and Senf, John W., 4,701,112, Cl. 417-345.000.
Adi Limited: *See—*
  De Garie, Claude; Cocci, Albert; and Landine, Robert C., 4,672,691, Cl. 4-499.000.
Adidas Sportschuhfabriken Adi Dassler Stiftung & Co. KG: *See—*
  Greiner, Peter; Pfluger, Hubert; and Widmann, Horst, 4,698,924, Cl. 36-134.000.
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  Jungkind, Roland, 4,682,785, Cl. 280-615.000.
Adil, Mehmet Nazim: *See—*
  Hegedus, Leslie J.; and Bentall, Simon W., 4,706,851, Cl. 222-106.000.
Adiletta, Joseph G., to Pall Corporation. Insulating structure. 4,671,979, 6-9-87, Cl. 428-74.000.
Adinolfi, Philip J.: *See—*
  Zucker, Richard S.; and Adinolfi, Philip J., 4,711,351, Cl. 206-331.000.
Adir: *See—*
  Vincent, Michel; Remond, Georges; and Laubie, Michel, 4,644,008, Cl. 514-412.000.
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  Marchand, Bernard; and Gargouil, Yves M., 4,703,057, Cl. 514-432.000.
  Wierzbicki, Michel; Hugon, Pierre; and Poignant, Jean-Claude, 4,711,885, Cl. 514-253.000.
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Adjustable Fixture Company: *See—*
  Schumaker, Michael J., 4,646,205, Cl. 362-2.000.
Adkins, Charles E. Implement attachment for a handicapped arm. 4,661,113, 4-28-87, Cl. 623-65.000.
Adkins, Ernest, to Klinger AG. Gaskets. 4,690,413, 9-1-87, Cl. 277-199.000.
Adkins, Virgil J., Jr.: *See—*
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Adlam, Arthur H.; Wittbrodt, Donald R.; Scully, Andrew J.; Smith, Roger R.; Tuteja, Balbir S.; Currier, Theodore R.; George, Rita M.; Yopp, Roger W.; and Hussaini, Syed M., to United States of America, Army. Protective box for explosive line launcher. 4,671,162, 6-9-87, Cl. 89-1.130.
Adleman, George L.: *See—*
  Neil, Robert B.; and Adleman, George L., 4,679,039, Cl. 340-728.000.
Adler, Allen J.: *See—*
  Thau, Herbert F.; and Adler, Allen J., 4,652,037, Cl. 296-78.00R.
Adler, David M. Exercise device. 4,679,788, 7-14-87, Cl. 272-93.000.
Adler, Eli: *See—*
  El-Hanany, Uri; Lachish, Uri; Rotter, Shlomo; and Adler, Eli, 4,701,607, Cl. 250-205.000.
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  Steigerwald, Franz; and Adler, Franz, 4,669,621, Cl. 215-228.000.
Adler, Meryle D. W., to Corning Glass Works. Air slide positioning for grinding spindles. 4,713,913, 12-22-87, Cl. 51-165.900.
Adler, Michael S.; and Gray, Peter V., to General Electric Company. Bidirectional, high-speed power MOSFET devices with deep level recombination centers in base region. 4,656,493, 4-7-87, Cl. 357-23.400.
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  Harnden, John D., Jr.; Kornrumpf, William P.; Kohl, James E.; and Adler, Michael S., 4,697,118, Cl. 310-331.000.
Adler, Michel: *See—*
  Ferrage, Francois; and Adler, Michel, 4,671,001, Cl. 38-143.000.
Adler, Percy. Bicycle support device. 4,648,597, 3-10-87, Cl. 272-73.000.
Adler, Robert, to Zenith Electronics Corporation. Touch control system for use with or having a three-dimensionally curved touch surface. 4,642,423, 2-10-87, Cl. 178-18.000.
Adler, Robert, to Zenith Electronics Corporation. Touch control system for use with a display panel or other touch controlled device. 4,645,870, 2-24-87, Cl. 178-19.000.
Adler, Robert; and Jarosz, John M., to Zenith Electronics Corporation. Light guide having focusing element and internal reflector on same face. 4,673,918, 6-16-87, Cl. 340-365.00P.
Adler, Robert; and Strauss, Paul, to Zenith Electronics Corporation. Improved indexing means with optimized groove angle. 4,692,660, 9-8-87, Cl. 313-477.00R.
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Adler, Theo: *See—*
  Stolper, Richard; and Adler, Theo, 4,664,442, Cl. 297-216.000.
Adlon, Daniel T.; Bianchi, Edward A.; College, Neil F.; and Reuss, George D., to AMP Incorporated. Electrical connector pick-up station. 4,650,391, 3-17-87, Cl. 414-222.000.
Adly, Tarek A., to Hydrotile Machinery Company. Combined concrete feed and packerhead lift control. 4,639,342, 1-27-87, Cl. 264-40.100.
ADM Tronics Unlimited, Inc.: *See—*
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  Di Mino, Alfonso, 4,705,931, Cl. 219-68.000.
  Di Mino, Alfonso; and Di Mino, Andre, 4,714,911, Cl. 338-195.000
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Adnovum AG: *See—*
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Adolf Hottinger Giesserei und Maschinenbau GmbH: *See—*
  Landua, Werner; and Muller, Jurgen, 4,665,967, Cl. 164-165.000.
  Rommel, Reiner; and Landua, Werner, 4,711,292, Cl. 164-200.000.
Adolfsson, Rune, to SKF Nova AB. Freewheel mechanism. 4,645,047, 2-24-87, Cl. 192-12.00B.
Adolfsson, Rune, to SKF Nova AB. Friction coating for contacting elements of a constant velocity joint. 4,673,375, 6-16-87, Cl. 464-145.000.
Adolfsson, Rune, to SKF Nova AB. Reversible freewheel device. 4,693,351, 9-15-87, Cl. 192-48.920.
Adolfsson, Rune: *See—*
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  Lundgren, Bengt; and Adolfsson, Rune, 4,669,911, Cl. 403-344.000.
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  Burt, Daryl D.; and Haskell, Monty E., 4,674,340, Cl. 73-862.230.
  Dugan, Larry M., 4,664,159, Cl. 141-1.000.
  Grims, Conrad M.; and Eldridge, Lawrence B., 4,715,221, Cl. 73-149.000.
  Hahn, Roger A.; and Heins, Henry H., 4,697,973, Cl. 414-330.000.
  Hudec, Gordon D., 4,693,178, Cl. 101-40.000.
  Peer, A. Dean, Jr., 4,691,858, Cl. 206-621.200.
  Rice, Steven J.; Thompson, Gilbert M.; Dolph, Michael W.; and Montoya, Daniel D., 4,684,259, Cl. 366-185.000.
  Rusnock, Kevin R., 4,634,007, Cl. 206-620.000.
  Rusnock, Kevin R., 4,684,059, Cl. 229-52.00B
  Shriver, Frank L., 4,683,009, Cl. 134-30.000.
  Thompson, Roger A.; Jensen, James W.; and Templeton, Darrell L., 4,704,171, Cl. 156-64.000.
  Walsh, Joseph C., 4,703,848, Cl. 206-171.000.
Adolph, Kurt. Poor-scatter pot magnet system for magnetic-dynamic loudspeakers or acoustic transducers. 4,654,486, 3-31-87, Cl. 381-201.000.
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  Buerstinghaus, Rainer; and Adolphi, Heinrich, 4,710,494, Cl. 514-143.000.
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  Johnson, Van B.; and Adolphson, Douglas G., 4,634,658, Cl. 430-293.000.
Adomaitis, Paul R.; Brouwer, Nicholaas L.; and Hobi, Bernard J., to Aluminum Company of America. Video surface inspection system. 4,675,730, 6-23-87, Cl. 358-106.000.
Adomeit, Heinz-Dieter. Height adjusting arrangement for a guide fitment of a safety belt. 4,711,498, 12-8-87, Cl. 297-468.000.
Adoram, Amnon: *See—*
  Bayer, Izhak; and Adoram, Amnon, 4,690,132, Cl. 128-4.000.
Adorian, Iudita L.: *See—*
  de Nora, Vittorio; Gauger, Jurgen F.; Fresnel, Jean-Marie; Adorian, Iudita L.; and Duruz, Jean-Jacques R., 4,650,552, Cl. 204-67.000.
Adorjan, Alexander S., to Exxon Production Research Co. Pipeline system with encapsulated insulation. 4,637,637, 1-20-87, Cl. 285-47.000.
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  - Charbonnier, Roger, 4,637,069, Cl. 455-330.000.
  - Remy, Joel, 4,673,891, Cl. 331-2.000.
  - Remy, Joel; and Charbonnier, Roger, 4,682,122, Cl. 331-2.000.
- Adriaan Sachtler, J. W.: *See—*
  - Chao, Tai-Hsiang; and Adriaan Sachtler, J. W., 4,695,666, Cl. 585-481.000.
- Adriaensen, Ludo; and Decouttere, Bernard, to N. V. Bekaert S.A. Process and apparatus for cleaning by electrochemical pickling with alternating current of specified frequency. 4,713,153, 12-15-87, Cl. 204-144.500.
- Adrian, Gerhard: *See—*
  - Gawol, Manfred; and Adrian, Gerhard, 4,702,116, Cl. 73-865.600.
- Adrian, Guy P., to Delalande S.A. Process for preparing hydratropic acids and esters thereof, from propiphenones. 4,667,056, 5-19-87, Cl. 562-492.000.
- Adrian, Rainer; and Kroksnes, Finn, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Apparatus for producing reinforced elongate bodies. 4,671,761, 6-9-87, Cl. 425-501.000.
- Adrian, Willy; and Mehlert, Martin, to Otis Elevator Company. Escalator balustrade decking profile. 4,658,946, 4-21-87, Cl. 198-337.000.
- Adrian, Willy; and Wente, Gerald, to Otis Elevator Company. Multifunction glassholder for escalator balustrade. 4,690,264, 9-1-87, Cl. 198-335.000.
- Adrianus de Mooy, Cornelis, to Van Nelle Lassie B.V. Packing for a consumer article. 4,651,877, 3-24-87, Cl. 206-459.000.
- Adrion, Robert F.: *See—*
  - Sage, Burton H.; Adrion, Robert F.; and Malpass, Michael W., 4,660,971, Cl. 356-39.000.
  - Wu, Hai-Ping; Sage, Burton H., Jr.; and Adrion, Robert F., 4,661,913, Cl. 364-500.000.
- Adsett, Anthony P., to Litton Systems, Inc. Gas laser and method of making a gas laser. 4,713,825, 12-15-87, Cl. 372-107.000.
- Adsett, Anthony P., to International Laser Systems, Inc. Titanium heat exchanger for laser cooling. 4,714,107, 12-22-87, Cl. 165-16.00A.
- Adshead, Leslie T.; and Torr, Fred, to Skaigh Engineering Ltd. Electrical connector. 4,676,562, 6-30-87, Cl. 439-38.000.
- ADT, Inc.: *See—*
  - Edson, James B., 4,683,459, Cl. 340-514.000.
  - Galvin, Aaron A.; Mason, Douglas L.; Leff, Kenneth J.; Schide, John N.; and Giffone, Ralph A., 4,687,924, Cl. 250-216.000.
  - Guscott, John K., 4,707,604, Cl. 250-342.000.
  - Guscott, John K.; and Vulgaris, George, 4,709,151, Cl. 250-342.000.
- Advalloy, Inc.: *See—*
  - Keady, William M.; Iseger, Frank; and Maidment, Barry, 4,656,817, Cl. 53-520.000.
- Advance Machine Company: *See—*
  - Sletten, William C., II, 4,709,442, Cl. 15-320.000.
  - Wood, David W., 4,658,459, Cl. 15-49.00R.
- Advance Scouts, Inc.: *See—*
  - Nelson, Robert D.; Nelson, Thomas E.; and Williams, Paul M., 4,651,457, Cl. 43-3.000.
- Advance Transformer Company: *See—*
  - Duncan, George I.; and Phelps, Stephen L., 4,714,979, Cl. 361-274.000.
  - Hallay, Alexander R., 4,695,771, Cl. 315-290.000.
  - Smulders, Herman, 4,642,521, Cl. 315-106.000.
- Advanced Cardiovascular Systems, Inc.: *See—*
  - Frisbie, Jeffrey S.; Samson, Wilfred J.; and Hoek, John V., 4,664,113, Cl. 128-344.000.
  - Powell, Philip E., 4,638,805, Cl. 128-344.000.
  - Powell, Philip E., 4,692,200, Cl. 156-289.000.
  - Samson, Wilfred J.; and Frisbie, Jeffrey S., 4,641,654, Cl. 128-344.000.
  - Simpson, John B., 4,661,094, Cl. 604-53.000.
- Advanced Color Technology, Inc.: *See—*
  - Allen, David; and Winey, Calvin, 4,703,329, Cl. 346-24.000.
  - Allen, David; and Cleary, Arthur, 4,707,704, Cl. 346-24.000.
  - Buckley, Dennis J.; Cleary, Arthur; and Winey, Calvin, 4,707,712, Cl. 346-136.000.
  - Zoltan, Steven I., 4,641,155, Cl. 346-140.00R.
- Advanced Control Engineering: *See—*
  - Swain, Danny C., 4,690,621, Cl. 417-313.000.
- Advanced Energy Concepts '81 Ltd.: *See—*
  - Distin, Robert; and Shaffer, James, 4,643,047, Cl. 74-804.000.
  - Murray, Richard E., 4,658,675, Cl. 74-805.000.
- Advanced Energy, Inc.: *See—*
  - Reese, George; Spielmaker, Richard; and Schatz, Douglas, 4,679,007, Cl. 333-17.00M.
- Advanced Equipment Corporation: *See—*
  - Dickson, Wesley B., 4,642,947, Cl. 52-64.000.
- Advanced Extraction Technologies, Inc.: *See—*
  - Bunting, Terry N., 4,695,672, Cl. 585-867.000.
  - Mehra, Yuv R., 4,680,042, Cl. 62-17.000.
  - Mehra, Yuv R., 4,692,179, Cl. 62-17.000.
  - Mehra, Yuv R., 4,696,688, Cl. 62-17.000.
- Advanced Fiberoptic Technologies Corporation: *See—*
  - Weinberger, Ervin, 4,689,483, Cl. 250-231.00R.
- Advanced Fuel Research, Inc.: *See—*
  - Solomon, Peter R.; Carangelo, Robert M.; and Best, Philip E., 4,652,755, Cl. 250-341.000.
- Advanced Genetic Sciences, Inc.: *See—*
  - Moll, Benjamin A., 4,650,336, Cl. 356-417.000.
- Advanced Genetics Research Institute: *See—*
  - Wiesehahn, Gary P.; Creagan, Richard P.; Stevens, David R.; and Giles, Richard, 4,693,981, Cl. 435-238.000.
- Advanced Glass Systems, Corp.: *See—*
  - Bolton, Nelson P.; and Smith, W. Novis, Jr., 4,663,228, Cl. 428-334.000.
  - Bolton, Nelson P., and Smith, W. Novis, Jr., 4,668,574, Cl. 428-339.000.
- Advanced Input Devices, Inc.: *See—*
  - Siverson, Ronald A.; and Clark, Jay A., 4,664,030, Cl. 101-41.000.
- Advanced Instruments, Inc.: *See—*
  - Wiggin, Blanton C.; and Philbrick, Julian W., 4,657,409, Cl. 374-25.000.
- Advanced Magnetics, Inc.: *See—*
  - Chagnon, Mark S.; Groman, Ernest V.; Josephson, Lee; and Whitehead, Roy A., 4,695,393, Cl. 252-62.540.
  - Josephson, Lee, 4,672,040, Cl. 436-526.000.
  - Whitehead, Roy A.; Chagnon, Mark S.; Groman, Ernest V.; and Josephson, Lee, 4,695,392, Cl. 252-62.540.
  - Whitehead, Roy A.; Chagnon, Mark S.; Groman, Ernest V.; and Josephson, Lee, 4,698,302, Cl. 435-94.000.
- Advanced Manufacturing Systems, Incorporated: *See—*
  - Haaser, Michael J., 4,700,827, Cl. 198-771.000.
  - Marshall, James W.; Haaser, Michael J.; Vanicky, Alex A.; and Podhorniak, Gary S., 4,687,093, Cl. 198-465.200.
- Advanced Materials and Design Corp.: *See—*
  - Thomas, Gareth; Kim, Nack J.; and Ramesh, Ramamoorthy, 4,671,827, Cl. 148-12.00E.
- Advanced Medical Devices, Inc.: *See—*
  - Beck, Blaine E., 4,705,073, Cl. 137-625.250.
- Advanced Micro Devices, Inc.: *See—*
  - Adams, Neil R., 4,668,918, Cl. 328-155.000.
  - Adams, Neil R.; and Clapp, Craig S. K., 4,675,612, Cl. 328-63.000.
  - Adams, Neil R., 4,686,481, Cl. 328-133.000.
  - Allen, Bert L.; and Forouhi, A. Rahim, 4,665,426, Cl. 357-54.000.
  - Banerjee, Pradip; and Keswick, Paul D., 4,700,370, Cl. 377-55.000.
  - Bemis, Gerald L., 4,692,894, Cl. 364-900.000.
  - Bemis, Gerald L., 4,703,486 Cl. 371-41.000.
  - Bereznak, Bradley J., 4,703,495, Cl. 377-108.000.
  - Borodovsky, Yan; Thomas, Mammen; and Ma, Danny, 4,672,420, Cl. 357-71.000.
  - Brown, Candice H., 4,640,010, Cl. 29-832.000.
  - Campbell, David L., 4,716,381, Cl. 330-256.000.
  - Chen, Cheng-Wei; and Peng, Jieh-Ping, 4,689,494, Cl. 307-202.100
  - Cheung, Robin W.; and Chan, Hugo W. K., 4,693,925, Cl. 428-189.000.
  - Chu, John W.; and Bereznak, Bradley J., 4,682,143, Cl. 338-307.000
  - Chung, Shine C., 4,714,839, Cl. 307-441.000.
  - Clark, Alan T.; Ibrahim, Hadi; and Lange, Arthur F., 4,635,255, Cl. 370-110.100.
  - De Weck, Lionel M., 4,667,165, Cl. 330-253.000.
  - De Weck, Lionel M., 4,668,919, Cl. 330-253.000.
  - De Weck, Lionel M., 4,670,671, Cl. 307-355.000.
  - Dines, Steven; Sfarti, Adrian; and Daniel, Andrew D., 4,648,049, Cl. 364-521.000.
  - Donoghue, William J., 4,670,675, Cl. 307-530.000.
  - Duley, Raymond S.; and Forth, Leslie, 4,710,943, Cl. 375-7.000.
  - Erb, Darrell M.; and Selcuk, Asim A., 4,650,544, Cl. 156-653.000.
  - Erb, Darrell M., 4,707,457, Cl. 437-193.000.
  - Fang, Sheng, 4,689,763, Cl. 364-784.000.
  - Fang, Sheng; and Lee, Sam H., 4,692,634, Cl. 307-272.100.
  - Fuchs, Peter M., 4,644,409, Cl. 358-256.000.
  - Gershon, Eugen; and Sterner, Rudolph J., 4,698,523, Cl. 307-351.000.
  - Gwozdz, Peter S., 4,714,520, Cl. 437-228.000.
  - Haskell, Jacob D.; and Sander, Craig S., 4,677,589, Cl. 365-149.000.
  - Haskell, Jacob D., 4,686,559, Cl. 357-54.000.
  - Hsu, Mei; and Wong, Thomas H., 4,647,799, Cl. 307-455.000.
  - Iranmanesh, Ali; and Schmidt, Christopher O., 4,641,416, Cl. 29-576.00W.
  - Iyer, Venkatraman; and Lee, Gil S., 4,713,605, Cl. 324-73.00R.
  - Joshi, Sunil P.; and Iyer, Venkatraman, 4,712,215, Cl. 371-37.000.
  - Khu, Arthur H., 4,691,193, Cl. 340-347.0DD.
  - Kong, Samuel K., 4,714,877, Cl. 324-133.000.
  - Kuklewicz, John C., 4,647,904, Cl. 340-347.0AD.
  - Laugesen, Ronald C.; and Venkitakrishnan, Padmanabha I., 4,641,247, Cl. 364-490.000.
  - Lechner, Robert; and Sealer, David, 4,651,110, Cl. 330-9.000.
  - Lien, Jih-Chang; and Wang, Hsingya A., 4,635,347, Cl. 29-591.000.
  - Liu, Wei-Ti, 4,670,668, Cl. 307-296.00R.
  - Liu, Wei-Ti, 4,689,495, Cl. 307-264.000.
  - Liu, Yow-Juang (Bill), 4,709,467, Cl. 437-30.000.
  - Maltiel, Ron; and Yau, Robert L., 4,716,552, Cl. 365-222.000.
  - Marks, Steven, 4,655,874, Cl. 156-643.000.
  - Menon, Vinod; and Kaku, Shinkyo, 4,716,467, Cl. 358-260.000.
  - Miller, Michael J., 4,638,300, Cl. 340-347.0DD.
  - Mockler, Kenneth J.; Kittler, Richard C.; Warner, Glenn S.; and Hsu, Howard F., 4,668,335, Cl. 156-643.000.
  - Murphy, Colin N.; and Lu, Guey T., 4,639,899, Cl. 365-230.000.
  - New, Bernard J., 4,692,888, Cl. 364-728.000.
  - Price, William L.; Schlupp, Ronald L.; and Thomas, Mammen, 4,639,288, Cl. 156-643.000.
  - Qayyum, Asif, 4,706,266, Cl. 377-33.000.
  - Ramachandra, Govardhan; and Bhatt, Kiran M., 4,679,310, Cl. 29-577.00R.
  - Rinerson, Darrell D., 4,654,825, Cl. 365-185.000.
  - Sander, Craig S.; and Swaminathan, Balaji, 4,714,686, Cl. 437-195.000.

- Schnizlein, Paul G.; and Tang, Wen-Tsung F., 4,691,122, Cl. 307-279.000.
- Scott, Paul H., 4,710,922, Cl. 370-112.000.
- Shu, Lee-Lean; Shyu, Tai C.; and Chuang, Patrick T., 4,634,894, Cl. 307-297.000.
- Shu, Lee-Lean; Kao, Chao-Ven; and Shyu, Tai C., 4,670,861, Cl. 365-181.000.
- Shu, Lee-Lean; and Shyu, Tai-Ching, 4,694,205, Cl. 307-530.000.
- Sievers, William H.; and Garrett, Marc S., 4,670,714, Cl. 324-133.000.
- Sokolovsky, Paul J., 4,683,023, Cl. 156-518.000.
- Sokolovsky, Paul J., 4,691,747, Cl. 140-147.000.
- Sterner, Rudolph J.; and Harris, Steven, 4,714,866, Cl. 318-636.000.
- Tam, Aloysius T., 4,680,738, Cl. 365-239.000.
- Taylor, David M., 4,672,568, Cl. 364-721.000.
- Teymouri, Sasan, 4,672,242, Cl. 307-473.000.
- Thomas, Mammen; and Ko, Wen C., 4,635,230, Cl. 365-175.000.
- Thomas, Mammen; and Ko, Wen C., 4,654,824, Cl. 365-175.000.
- Thomas, Mammen; and Ko, Wen C., 4,669,180, Cl. 29-577.00C.
- Thomas, Mammen; and Weinberg, Matthew, 4,682,409, Cl. 29-591.000.
- Thomas, Mammen; and Weinberg, Matthew, 4,686,763, Cl. 437-51.000.
- Thomas, Mammen, 4,696,095, Cl. 437-78.000.
- Thomas, Mammen; and Weinberg, Matthew, 4,707,456, Cl. 437-59.000.
- Varadarajan, Hemmige D., 4,670,673, Cl. 307-455.000.
- Varadarajan, Hemmige D., 4,687,953, Cl. 307-270.000.
- Vasseghi, Nader; Goddard, Donald G.; and Eccles, Robert E., 4,678,940, Cl. 307-446.000.
- Vazir-Zadeh, Yousef, 4,698,831, Cl. 377-117.000.
- Venkatesh, Bhimachar, 4,654,831, Cl. 365-207.000.
- Venkatesh, Bhimachar, 4,672,241, Cl. 307-452.000.
- Wang, Bu-Chin; and Narayan, Shankar S., 4,672,670, Cl. 381-47.000.
- Weinberg, Matthew; Thomas, Mammen; and Chang, Shiao-Hoo, 4,669,179, Cl. 29-576.00B.
- Weinberg, Matthew; and Thomas, Mammen, 4,688,314, Cl. 437-56.000.
- Williams, Bertrand J.; and Wilson, Stanley, 4,639,661, Cl. 323-317.000.
- Williams, Bertrand J., 4,678,944, Cl. 307-475.000.
- Wincn, John M., 4,635,038, Cl. 340-347.0DA.
- Wong, Thomas S., 4,686,452, Cl. 323-314.000
- Yau, Robert L.; and Maltiel, Ron, 4,672,580, Cl. 365-189.000.
- Yen, Yung-Chau, 4,696,098, Cl. 437-187.000.
- Young, Mark S.; Drew, John; and Shebanow, Michael C., 4,667,286, Cl. 364-200.000.
- Young, Mark S.; Drew, John; and Shebanow, Michael C., 4,667,326, Cl. 371-40.000

Advanced Micro Electronic Components and Systems: *See—*
- Bove, Bertrand, 4,679,643, Cl. 177-210.00C.

Advanced Mineral Technologies, Inc.: *See—*
- Brierley, James A.; Brierley, Corale L.; Decker, Raymond F., and Goyak, George M., 4,690,894, Cl. 435-244.000.

Advanced Moisture Technology, Inc.: *See—*
- Pakulis, Ivars E., 4,716,360, Cl. 324-58.50A.

Advanced NMR Systems, Inc.: *See—*
- Briggs, Randal L., 4,707,797, Cl. 364-607.000.
- Maudsley, Andrew, 4,689,567, Cl. 324-309.000.
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Advanced Nuclear Fuels Corporation: *See—*
- Cooke, William R.; Haugen, Brian G.; and Reparaz, Adolfo, 4,673,545, Cl. 376-261.000.
- Hermens, Richard A.; Kendall, Jack B.; and Partridge, Jerry A., 4,668,482, Cl. 423-15.000.

Advanced Plasma Systems Inc.: *See—*
- Fazlin, Fazal A.; and Ali, Asad, 4,689,105, Cl. 156-382.000.

Advanced Polymer Systems, Inc.: *See—*
- Won, Richard, 4,690,825, Cl. 424-501.000.

Advanced Products Ltd.: *See—*
- Livne, Avinoam, 4,679,615, Cl. 165-1.000.

Advanced Products & Technologies: *See—*
- Rondel, Stephen A.; and Petrich, David B., 4,674,400, Cl. 99-279.000.

Advanced Resource Development Corporation: *See—*
- Silverman, Eugene B.; Simmons, Richard K.; and Croston, Robert B., 4,709,265, Cl. 358-108.000.

Advanced Robotic Technology, Inc.: *See—*
- Joyce, Stephen A., 4,686,329, Cl. 178-18.000.

Advanced Sail Concepts, Inc.: *See—*
- Fuller, Robert R., 4,685,410, Cl. 114-102.000

Advanced Semiconductor Materials Fico Tooling, B.V.: *See—*
- Dijkmeijer, H. E.; and Pas, Ireneus J. T. M., 4,669,599, Cl. 198-394.000.

Advanced Separation Technologies Incorporated: *See—*
- Berry, W. Wes, 4,695,386, Cl. 210-665.000.
- Berry, W. Wes; and Erickson, William R., 4,695,387, Cl. 210-676.000.
- Berry, W. Wes, 4,704,262, Cl. 423-310.000.
- Berry, W. Wes; and Erickson, William R., 4,704,263, Cl. 423-312.000.
- Berry, W. Wes, 4,710,364, Cl. 423-244.000.

Advanced Sports Corporation: *See—*
- Wood, Robert L., 4,634,393, Cl. 441-129.000.

Advanced Storage, Inc.: *See—*
- Ross, Lent A., III; and Boykin, Thurman L., 4,660,337, Cl. 52-192.000.

Advanced Systems Development, Inc.: *See—*
- Tchorbajian, Nichan; and Fitzgerald, Edward P., 4,689,675, Cl. 358-140.000.

Advanced Systems Research, Inc.: *See—*
- Redmond, Kevin P., 4,673,898, Cl. 333-109.000.

Advanced Technology Laboratories, Inc.: *See—*
- Augustine, Larry J., 4,644,795, Cl. 73-625.000.
- Frey, Gregg W., 4,670,339, Cl. 428-328.000.

Advanced Technology Products, Inc.: *See—*
- Wolf, James L.; Bardwick, Alan S.; and Sallis, Daniel V., 4,662,537, Cl. 221-89.000.

Advanced Thermal Systems, Inc.: *See—*
- Hannah, Daniel E.; Miliczky, Eugene W.; Bea, Clifford F.; and Hannah, Martin J., 4,711,013, Cl. 29-402.020.
- Miliczky, Eugene W., 4,671,543, Cl. 285-270.000.

Advanced Tobacco Products Inc.: *See—*
- Ellis, Michael P.; and Ray, Jon P., 4,676,259, Cl. 131-335.000.
- Ray, Jon P.; and Ellis, Michael P., 4,655,231, Cl. 131-359.000.

Advanced Tool Technology, Inc.: *See—*
- Rossetti, James J., 4,710,334, Cl. 264-102.000.

Advani, Hira; Loucks, Larry K.; and Springen, Nancy L., to International Business Machines Corporation. Device driver and adapter binding technique. 4,649,479, 3-10-87, Cl. 364-300.000.

Advantage Food Systems, Inc.: *See—*
- Sherratt, James K., 4,646,793, Cl. 141-1.000.

Advantest Corporation: *See—*
- Ando, Masakazu, 4,710,704, Cl. 324-73.00R.
- Yaeda, Shigeru, 4,657,406, Cl. 368-120.000.

Advel Limited: *See—*
- Jeal, Harvey P., 4,699,552, Cl. 411-43.000.

Advest Group, Inc., The: *See—*
- Grant, David J.; and Vignola, Andrew M., Sr., 4,694,397, Cl. 364-408.000.

Ae, Osamu: *See—*
- Yamamoto, Hiroshi; Satoh, Shuichi; Iwai, Yoshiyuki; Ae, Osamu; Suda, Masao; Shiozaki, Minoru; Tsuchiya, Kiyoshi; Nakano, Manabu; Ogata, Kojiro; Miyanagi, Naoki; Ono, Kozo; and Tobita, Nobuyuki, 4,653,594, Cl. 173-49.000.

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- Avezou, Jean-Claude, 4,651,631, Cl. 92-224.000.
- Baigent Maurice G., 4,695,169, Cl. 384-36.000.
- Bolton, Albert E.; and Hepworth, William J., 4,643,145, Cl. 123-195.00R.
- Bruni, Ludovico, 4,674,399, Cl. 92-158.000.
- Davies, Glyndwr J., 4,657,683, Cl. 252-12.000.
- Day, Roger A.; Tommis, Norman; and Baker, Andrew R., 4,708,104, Cl. 123-193.00P.
- Deane, Norman P., 4,651,580, Cl. 74-89.200.
- Deane, Norman P., 4,712,443, Cl. 74-470.000.
- Eastwood, Barry J.; and Eastham, David R., 4,645,360, Cl. 384-129.000.
- Eastwood, Barry J., 4,696,867, Cl. 428-650.000.
- Eastwood, Barry J., 4,707,194, Cl. 148-11.50A.
- Elderton, John, 4,715,491, Cl. 198-856.000.
- Graham, Neil A., 4,640,772, Cl. 210-295.000.
- Holt, Jeremy; Parker, David A.; and Ruddy, Brian L., 4,669,369, Cl. 92-160.000.
- Munro, Robert; and Day, Roger A., 4,679,493, Cl. 92-212.000.
- Munro, Robert; and Speaight, David C., 4,702,151, Cl. 92-237.000.
- New, Nigel H., 4,652,150, Cl. 384-275.000.
- Philby, Jonathan D., 4,655,983, Cl. 264-297.100.
- Philby, Jonathan D., 4,677,900, Cl. 92-212.000.
- Richmond, John W., 4,715,267, Cl. 92-232.000.
- Ruddy, Brian L., 4,664,021, Cl. 92-223.000.
- Slee, Roger H., 4,638,694, Cl. 82-18.000.
- Slee, Roger H., 4,646,595, Cl. 82-2.00B.
- Tommis, Norman; and Cooper, James A., 4,715,422, Cl. 164-97.000.
- Winterbottom, Robert J. H.; and Edwards, Walter G., 4,672,550, Cl. 364-474.000.

Ae, Tadashi: *See—*
- Hirose, Masataka; Yamanishi, Masamichi; Osaka, Yukio; Ae, Tadashi; Ichikawa, Tadao; Yoshida, Noriyoshi; and Suemune, Ikuo, 4,672,577, Cl. 365-114.000.

Aebersold, Werner: *See—*
- Larue, Roderick W.; Aebersold, Werner; and Eckel, Robert, 4,701,664, Cl. 313-112.000.

AECI Limited: *See—*
- Baker, Rodney C.; and Van Rensburg, Phillippus J., 4,685,423, Cl. 119-86.000.
- Curutchet, Jean L., 4,671,178, Cl. 102-275.100.

AEG-Elotherm GmbH: *See—*
- Busch, Bernd, 4,704,673, Cl. 363-98.000.

AEG Kabel Aktiengesellschaft: *See—*
- Haag, Helmut; and Nothofer, Klaus, 4,696,541, Cl. 350-96.230

AEG-Telefunken Kabelwerke AG, Rheydt: *See—*
- Glessner, Bertram; Pitsch, Paul; Heinen, Peter; and Peglow, Hartmut, 4,636,235, Cl. 65-3.120.
- Glessner, Bertram; Pitsch, Paul; Heinen, Peter; and Peglow, Hartmut, 4,636,236, Cl. 65-3.120.

Aegis, Inc.: *See—*
- Scherer, Jeremy D., 4,633,573, Cl. 29-589.000.
- Scherer, Jeremy D.; and Tower, Steven A., 4,649,229, Cl. 174-52.0FP.

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Aemmer, Peter F.; and Aeppli, Kurt, to Zellweger Uster, Ltd. Method and apparatus for the automatic monitoring of textile fabrics, especially woven fabrics. 4,643,230, 2-17-87, Cl. 139-1.00B.
Aeppli, Kurt: *See—*
  Aemmer, Peter F.; and Aeppli, Kurt, 4,643,230, Cl. 139-1.00B.
Aequitron Medical, Inc.: *See—*
  Isaacson, Philip O., 4,640,295, Cl. 128-748.000.
Aeras Water Resources, Inc.: *See—*
  Arbisi, Dominic S.; and Rasmussen, Thomas A., 4,659,485, Cl. 210-758.000.
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Aerazur-Efa: *See—*
  Rousseau, Jacques R., 4,638,961, Cl. 244-142.000.
Aerial Access Equipment Limited: *See—*
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Aero-Metric General, Inc.: *See—*
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  Washburn, William J., 4,681,038, Cl. 102-464.000.
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  Ebeling, Olavi, 4,652,365, Cl. 210-163.000.
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  Davis, James C., 4,666,366, Cl. 414-749.000.
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  Tao, Hiroaki, 4,698,314, Cl. 436-171.000.
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  - Fryda, Georg; and Hehn, Wilfried, 4,708,453, Cl. 354-320.000.
  - Gerum, Johannes; Nippe, Burkhard; and Meckel, Walter, 4,677,030, Cl. 428-425.900.
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- Agintec AG: *See—*
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  - Santambrogio, Alberto; and Mattei, Luciano, 4,692,170, Cl. 44-63.000.
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  - Knittel, Ronald, 4,688,230, Cl. 372-109.000.
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- Agricultural Genetics Company, Limited: *See—*
  - Boulter, Donald; Gatehouse, Angharad M. R.; Gatehouse, John A.; and Cox, Roger B., 4,640,836, Cl. 424-195.100.
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  - Smith, Gerald D.; and Werner, Ben E., 4,707,918, Cl. 30-228.000.
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  - Houle, Mario, 4,699,265, Cl. 198-575.000.
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  - Shirley, Arthur R., Jr., 4,650,682, Cl. 426-69.000.
- AgRobotics, Inc.: *See—*
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- Aharon, Naaman B. Solar collector. 4,656,996, 4-14-87, Cl. 126-438.000.
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  - Hennessy, Arnold, 4,707,868, Cl. 4-362.000.
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- Ahlberg, Russell W. Protective bar assembly for motorcycle. 4,673,190, 6-16-87, Cl. 280-289.00G.
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  - Boone, Joseph E.; and Ahlemeyer, W. Bruce, 4,713,661, Cl. 340-994.000.
- Ahlers, Heinfried: *See—*
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- Ahlgren, Stig B. Driving device for signs. 4,676,767, 6-30-87, Cl. 474-84.000.
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  - Simola, Markku A.; and Haapoja, Vesa, 4,634,521, Cl. 209-17.000.
- Ahlstrom, John K.: *See—*
  - Gruner, Ronald H.; Clancy, Gerald F.; Mundie, Craig J.; Schleimer, Stephen I.; Wallach, Steven J.; Bratt, Richard G.; Gavrin, Edward S.; Wallach, Walter A., Jr.; Ahlstrom, John K.; Richmond, Michael S.; Bernstein, David H.; Pilat, John F.; Farber, David A.; and Belgard, Richard A., 4,675,810, Cl. 364-200.000.
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Ahmed, Bashir M., to Amchem Products, Inc. Use of additive in aqueous cure of autodeposited coatings. 4,647,480, 3-3-87, Cl. 427-341.000.

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Ramus, Gary D.; and Ahnen, Christopher R., 4,666,677, Cl. 422-183.000.

Ahner, Mary E., to Exxon Chemical Patents Inc. Pressure sensitive adhesive using light color, low softening point petroleum hydrocarbon resins. 4,683,268, 7-28-87, Cl. 525-237.000.

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Ahola, Raimo: *See—*

Myllylla, Risto; Kopola, Harri; Kostamovaara, Juha; and Ahola, Raimo, 4,640,514, Cl. 273-310.000.

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Ahonen, Pentti. Insulation of structures. 4,656,783, 4-14-87, Cl. 49-404.000.

Ahrend Groep B.V.: *See—*

Pruyser, Johan S., 4,688,748, Cl. 248-188.700.

Ahrens, Allan F.; and Martinelli, Robert M., to Hughes Aircraft Company. Partial shunt switching limiter for a spacecraft solar-panel or like power-source array. 4,691,159, 9-1-87, Cl. 323-222.000.

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Kisielowski, Lothar; Grafe, Ingomar; Liebenow, Walter; and Ahrens, Kurt H., 4,697,035, Cl. 558-344.000.

Postius, Stefan; Herter, Rolf; Morsdorf, Peter; Schickaneder, Helmut; Szelenyi, Istvan; and Ahrens, Kurt H., 4,656,180, Cl. 514-316.000.

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Ahrens, Uwe, to Mecron medizinische Produkte GmbH. Implant. 4,705,520, 11-10-87, Cl. 623-23.000.

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Ahroni, Joseph M. Electric plug with snap-fitted housing components. 4,679,877, 7-14-87, Cl. 439-425.000.

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Ahs, Bjorn, to Kamyr AB. Screening device. 4,680,108, 7-14-87, Cl. 209-273.000.

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Ahs, Wilgot, to Tocksfors Verkstads AB. Relay tongue unit. 4,670,725, 6-2-87, Cl. 335-142.000.

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Ahuja, Om. Remote actuated switch. 4,653,084, 3-24-87, Cl. 379-29.000.

Ahuja, Om. Polarity ring director. 4,669,111, 5-26-87, Cl. 379-181.000.

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Ahuja, Om. Frequency ring director. 4,675,899, 6-23-87, Cl. 379-180.000.

Ahuja, Om. Solid state remote actuable switch. 4,700,380, 10-13-87, Cl. 379-177.000.

Ahuja, Om, to Om Electronics Systems Corp. Telephone line fault locating device. 4,710,949, 12-1-87, Cl. 379-26.000.

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Aiba, Kazumi: *See—*

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Murayama, Akira; Kuno, Hiroaki; Uchikawa, Naoshi; Tamura, Takahiro; Mizuno, Takao; Aiba, Kazumi; Ikeda, Mitsuo; and Fukatsu, Kiyoshi, 4,690,625, Cl. 418-55.000.

Aiba, Masahiko, to Sharp Kabushiki Kaisha. Low noise solenoid drive. 4,641,219, 2-3-87, Cl. 361-153.000.

Aiba, Masahiko, to Sharp Kabushiki Kaisha. Ripple regulating system in a liquid supply system. 4,652,222, 3-24-87, Cl. 417-540.000.

Aiba, Masahiko: *See—*

Kuranishi, Masaaki; and Aiba, Masahiko, 4,700,202, Cl. 346-140.00R.

Aiba, Mitsuru: *See—*

Suzuki, Hideo; Okamoto, Kunihide; Hayashi, Yasuyuki; and Aiba, Mitsuru, 4,709,934, Cl. 280-6.00R.

Aiba, Shigeo: *See—*

Mochizuki, Hiroyuki; Kobayashi, Nobuo; Inuzuka, Yutaka; Aiba, Shigeo; and Nishi, Setsuo, 4,683,769, Cl. 74-422.000.

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Isoda, Sumiro; Suzuki, Norio; Miwa, Tamotsu; and Aibara, Shunzo, 4,652,646, Cl. 544-251.000.

Aica Kogyo Co., Ltd.: *See—*

Kuribayashi, Yukio, 4,716,400, Cl. 340-572.000.

Aichele, Hans; Beck, Walter; and Schwerin, Gunther, to Robert Bosch GmbH. Hydraulic control arrangement. 4,688,381, 8-25-87, Cl. 60-452.000.

Aichelin GmbH: *See—*

Wunning, Joachim; and Neubauer, Wilhelm, 4,653,732, Cl. 266-250.000.

Aichert, Hans; Bauer, Volker; Feuerstein, Albert; and Ranke, Horst, to Leybold-Heraeus GmbH. Vacuum depositing apparatus. 4,648,347, 3-10-87, Cl. 118-720.000.

Aichi Steel Works, Ltd.: *See—*

Honkura, Yoshinobu; Murata, Kouji; and Yokoyama, Takashi, 4,705,581, Cl. 148-307.000.

Honkura, Yoshinobu; Murata, Kouji; and Yokoyama, Takashi, 4,714,502, Cl. 148-307.000.

Saito, Tsutomu; Hasegawa, Yoshimichi; Yoshikawa, Kazuo; and Aoyama, Shigetsune, 4,637,594, Cl. 267-47.000.

Takata, Yatsuka; Yamada, Tadamasa; and Kikuchi, Eiki, 4,642,219, Cl. 420-104.000.

- Takata, Yatsuka; Yamada, Tadamasa; and Kikuchi, Eiki, 4,702,767, Cl. 75-49.000.
- Yamamoto, Toshiro; Kobayashi, Ryohei; Kurimoto, Mamoru; and Ozone, Toshio, 4,711,675, Cl. 148-144.000.

- Aickin Development Corporation: *See—*
  - Lindberg, Verne L.; and Stockinger, Paul A., 4,695,019, Cl. 248-74.300.
- Aida Engineering, Ltd.: *See—*
  - Imanishi, Shozo; and Sato, Mitsuo, 4,677,908, Cl. 100-53.000.
  - Imanishi, Shozo; and Sato, Mitsuo, 4,711,169, Cl. 100-257.000.
  - Imanishi, Syozo; Yamakawa, Hiroyoshi; and Ono, Yutaka, 4,651,866, Cl. 198-500.000.
  - Kanbe, Yoshihiko, 4,646,552, Cl. 72-379.000.
  - Komatsu, Isamu; and Serizawa, Kenkichi, 4,706,004, Cl. 318-568.000.
  - Sugawara, Masayoshi; Nakamura, Yuichi; and Matsui, Akira, 4,674,357, Cl. 74-590.000.
  - Sugawara, Masayoshi; Nakamura, Yuichi; and Matsui, Akira, 4,697,466, Cl. 74-27.000.
- Aida, Satoru: *See—*
  - Hirama, Shigemitsu; Aida, Satoru; and Soyama, Hideo, 4,680,919, Cl. 53-499.000.
  - Muto, Yoshiyuki; Etani, Tadao; Aida, Satoru; and Kato, Shinya, 4,695,007, Cl. 242-58.400.
  - Ono, Shuichi; Aida, Satoru; and Hoshino, Kinshiro, 4,672,796, Cl. 53-449.000.
- Aida, Shunichi: *See—*
  - Shuto, Sadanobu; Ukai, Toshinao; and Aida, Shunichi, 4,675,279, Cl. 430-567.000.
- Aida, Takuzo: *See—*
  - Inoue, Shohei; and Aida, Takuzo, 4,654,417, Cl. 528-416.000.
  - Inoue, Shohei; and Aida, Takuzo, 4,665,134, Cl. 525-419.000.
- Aiello, Giovanni; and Hamelin, Jean-Pierre, to Soletanche. Device for determining the position of a moving part and drilling machine including such a device. 4,634,860, 1-6-87, Cl. 250-231.0SE.
- Aiello, Michael E., to Aerotech, Inc. Micro-stepping translator controller. 4,652,806, 3-24-87, Cl. 318-696.000.
- Aig, Edward R.; Coffey, John W.; Lovey, Allen J.; and Rosenberger, Michael, to Hoffmann-La Roche Inc. Phenyl substituted-2,4,6,8-nonatetraenoic acid. 4,648,996, 3-10-87, Cl. 260-410.90R.
- Aiga, Junji: *See—*
  - Akita, Kenji; and Aiga, Junji, 4,688,546, Cl. 126-96.000.
- Aiga, Masayuki; and Hashiguchi, Tetsuji, to Sanyo Electric Co., Ltd. Magnetron. 4,644,225, 2-17-87, Cl. 315-39.510.
- Aigel S.r.l.: *See—*
  - Grigoli, Aldo; and Ghioni, Giorgio, 4,699,583, Cl. 425-261.000.
- Aigner, Friedrich, to Steyr-Daimler-Puch AG. Mechanical aiming device for rifles. 4,686,770, 8-18-87, Cl. 33-257.000.
- Aigner, Helmar: *See—*
  - Aumann, Gunther; Aigner, Helmar; and Schuster, Hans-Karl, 4,661,255, Cl. 210-491.000.
- Aigner, Karl. Device for in vivo purification of blood. 4,648,865, 3-10-87, Cl. 604-4.000.
- Aigner, Karl. Double lumen catheter for a device for in-vivo purification of blood. 4,666,426, 5-19-87, Cl. 604-5.000.
- Aigner, Reinhard: *See—*
  - Grundei, Hans; and Aigner, Reinhard, 4,714,475, Cl. 623-20.000.
- Aigner, Rudolf; Blaschke, Gunter; and Muller, Gunther, to Hoechst Aktiengesellschaft. Continuous process for the preparation of dimethyldiallylammonium chloride. 4,670,594, 6-2-87, Cl. 564-296.000.
- Aignesberger, Alois; and Plank, Johann, to SKW Trostberg Aktiengesellschaft. Modifying surface tension of finely-divided materials in a liquid. 4,657,593, 4-14-87, Cl. 106-90.000.
- Aignesberger, Alois: *See—*
  - Plank, Johann; and Aignesberger, Alois, 4,666,979, Cl. 525-54.210.
- Aigo, Seiichiro. Package assembly for semiconductor device. 4,661,653, 4-28-87, Cl. 174-52.0FP.
- Aigo, Seiichiro. Spin drier for semiconductor material. 4,677,758, 7-7-87, Cl. 34-58.000.
- Aihara, Isamu; and Yoshimura, Tsuneo. Hydraulic trench support. 4,682,914, 7-28-87, Cl. 405-283.000.
- Aihara, Katsuzo: *See—*
  - Ando, Toshinari; Takahashi, Yoshikazu; Nishi, Masataka; Shimamoto, Susumu; Aihara, Katsuzo; and Tada, Naofumi, 4,652,697, Cl. 174-128.00S.
- Aihara, Mitsuo: *See—*
  - Suzuki, Soichi; Aihara, Mitsuo; and Fujii, Mitsuo, 4,691,287, Cl. 364-490.000.
- Aihara, Takayuki, to Olympus Optical Co., Ltd. Liquid transfer apparatus for automatic analyzers. 4,699,767, 10-13-87, Cl. 422-65.000.
- Aihara, Takayuki: *See—*
  - Kawakami, Kazuo; Nagai, Yawara; and Aihara, Takayuki, 4,634,575, Cl. 422-63.000.
- Aihara, Yoshihiko: *See—*
  - Eguchi, Masaharu; Tosaka, Yoichi; Ohnuki, Ichiro; Aihara, Yoshihiko; and Ishizaki, Akira, 4,714,332, Cl. 354-21.000.
  - Ohnuki, Ichiro; Aihara, Yoshihiko; Tosaka, Yoichi; and Eguchi, Masaharu, 4,693,574, Cl. 354-21.000.
  - Someya, Hiromi; Aihara, Yoshihiko; Mizogui, Toyokazu; and Suzuki, Nobuyuki, 4,673,277, Cl. 354-474.000.
- Aihara, Yoshiki: *See—*
  - Oota, Takashi; Uchikawa, Tadao; Okihara, Naoto; Aihara, Yoshiki; and Wakamatsu, Kazutoshi, 4,672,257, Cl. 310-328.000.
- Aihiko Ky: *See—*
  - Komulainen, Viljo S., 4,691,751, Cl. 144-357.000.
- Aikawa, Chiaki: *See—*
  - Abe, Hiraku; Uehara, Minoru; and Aikawa, Chiaki, 4,707,062, Cl. 350-96.160.
  - Fuke, Takamichi; Aikawa, Chiaki; Watanabe, Takashi; and Hishi, Yuichi, 4,700,251, Cl. 360-106.000.
- Aikawa, Hideaki: *See—*
  - Kanai, Makoto; Aikawa, Hideaki; Inada, Eiichi; and Ohtsuka Katsuyuki, 4,643,846, Cl. 252-626.000.
- Aikawa, Hiroshi, to Nissan Motor Co., Ltd. Suspension arm assembly for supporting automobile wheel. 4,639,006, 1-27-87, Cl. 280-96.100.
- Aikawa, Hiroshi: *See—*
  - Tabata, Toshikazu; Fujiwara, Yoshinari; Yoda, Norio; and Aikawa, Hiroshi, 4,679,778, Cl. 267-140.100.
  - Tabata, Toshiyuki; Aikawa, Hiroshi; Fujiwara, Yoshinari; and Yoda, Norio, 4,708,329, Cl. 267-140.100.
  - Yoshida, Ryo; and Aikawa, Hiroshi, 4,714,451, Cl. 474-28.000.
- Aikawa, Hiroyasu: *See—*
  - Inagaki, Tetsuya; Aoki, Hidemi; Aikawa, Hiroyasu; and Takahashi, Masao, 4,707,472, Cl. 514-58.000.
- Aikawa, Masaru: *See—*
  - Ohta, Morio; Tsuchiya, Shizuo; Nakano, Yoshito; Aikawa, Masaru; and Asaumi, Seiji, 4,641,156, Cl. 346-160.000.
- Aikawa, Noboru: *See—*
  - Higuchi, Toshiro; Mizuno, Takeshi; and Aikawa, Noboru, 4,642,500, Cl. 310-90.500.
- Aikawa, Norikazu: *See—*
  - Suzuki, Takehiko; Osaka, Shigemi; and Aikawa, Norikazu, 4,664,894, Cl. 423-265.000.
- Aikawa, Shinichi; Shibuya, Hiroshi; Kato, Hideya; and Nishimoto, Akira, to Teac Corporation. Magnetic transducer head capable of proper data transfer contact with a flexible magnetic disk without fine adjustment. 4,700,249, 10-13-87, Cl. 360-104.000.
- Aikawa, Shinichi: *See—*
  - Enami, Katsuya; Kawamura, Sinobu; Nagase, Fumio; and Aikawa, Shinichi, 4,709,285, Cl. 360-104.000.
- Aikawa, Takeshi: *See—*
  - Saito, Mitsuo; Aikawa, Takeshi; and Mori, Akio, 4,660,181, Cl. 365-230.000.
  - Saito, Mitsuo; Aikawa, Takeshi; and Mori, Akio, 4,688,032, Cl. 340-799.000.
- Aiken, Hugh H., Jr.; and Langford, Gordon B., to AMP Incorporated. Membrane keyboard switch assembly having spacer structure and method of making. 4,694,126, 9-15-87, Cl. 200-5.00A.
- Aiki, Kunio: *See—*
  - Ishii, Satoru; Nemoto, Tugio; and Aiki, Kunio, 4,702,556, Cl. 350-320.000.
- Aiko, Takuya: *See—*
  - Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Kato, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,649,860, Cl. 118-718.000.
  - Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Katoh, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,674,443, Cl. 118-733.000.
  - Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Katoh, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,676,999, Cl. 427-250.000.
  - Shimozato, Yoshio; Wada, Tetsuyoshi; Yanagi, Kenichi; Kato, Mitsuo; Furukawa, Heizaburo; Wake, Kanji; Morita, Arihiko; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,655,168, Cl. 118-718.000.
  - Umeda, Shozo; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Kato, Mitsuo; and Wada, Tetsuyoshi, 4,643,131, Cl. 118-718.000.
- Aikou, Kenichi; Kurihara, Yoichi; and Goto, Tsugio, to Asahi Kasei Kogyo Kabushiki Kaisha. Electronic delay detonator. 4,712,477, 12-15-87, Cl. 102-206.000.
- Ailing, George B. Vehicle antitheft device. 4,700,801, 10-20-87, Cl. 180-287.000.
- Aillet, Guy; and Ecabert, Jacques, to Societe D'Exploitation des Etablissements Rellumix. Filtering column for filtering heavy fuels under pressure at high temperature. 4,659,468, 4-21-87, Cl. 210-352.000.
- Aimono, Yuji: *See—*
  - Fujita, Koei; and Aimono, Yuji, 4,663,190, Cl. 427-82.000.
- Aimoto, Kenji: *See—*
  - Hasegawa, Kenji; Sakano, Yasuo; Katsuragi, Yasuhiro; Aimoto, Kenji; and Sugihara, Kunio, 4,675,184, Cl. 424-85.000.
- Aimoto, Michiyuki: *See—*
  - Arika, Junji; Miyazaki, Hiroshi; Itabashi, Keiji; and Aimoto, Michiyuki, 4,664,898, Cl. 423-329.000.
  - Miyazaki, Hiroshi; Arika, Junji; and Aimoto, Michiyuki, 4,678,651, Cl. 423-329.000.
- Aina, Olaleye A.; and Lakhani, Amir A., to Allied Corporation. Method of fabricating semiconductor device having low resistance non-alloyed contact layer. 4,662,060, 5-5-87, Cl. 29-571.000.
- Aine, Harry E.; and Block, Barry. Miniature thermal fluid flow sensors and batch methods of making same. 4,633,578, 1-6-87, Cl. 29-612.000.
- Aine, Harry E. Immersed thermal fluid flow sensor. 4,691,566, 9-8-87, Cl. 73-204.000.
- Aingworth, Richard S. Low tire pressure warning devices. 4,644,317, 2-17-87, Cl. 340-58.000.
- Ainoz, Jean-Philippe, to S.T. Dupont. Liquefied gas lighter with flat flame widened in its median part. 4,639,214, 1-27-87, Cl. 431-344.000.

- Ainslie, Benjamin J.; Day, Clive R.; and Beales, Keith J., to British Telecommunications plc. Glass fibres and optical communication. 4,675,038, 6-23-87, Cl. 65-3.120.
- Ainslie, Norman G.; Harvilchuck, Joseph M.; Interrante, Mario J.; King, William J., Jr.; Palmateer, Paul H.; and Sullivan, John F., to International Business Machines Corporation. High melting point copper-gold-tin brazing alloy for chip carriers. 4,634,638, 1-6-87, Cl. 428-671.000.
- Ainsworth, Anthony T.; and Smith, David G., to Beecham Group p.l.c. Secondary amines, their preparation and use in pharmaceutical compositions. 4,654,371, 3-31-87, Cl. 514-555.000.
- Ainsworth, John H.; and Shepler, Robert E., to Chromalloy American Corporation. Ceramic-metal composites. 4,639,388, 1-27-87, Cl. 428-117.000.
- Ainsworth, Kenneth M.: *See—*
  - Baker, Daniel G.; and Ainsworth, Kenneth M., 4,680,620, Cl. 358-10.000.
- Ainsworth Nominees Pty. Limited: *See—*
  - Crouch, Philip C., 4,676,506, Cl. 273-143.00R.
  - Harlick, Neville G., 4,636,951, Cl. 364-412.000.
- Ainsworth, Walter W.; and Metz, Arthur J., to Tektronix, Inc. Programmable sweep generator. 4,705,961, 11-10-87, Cl. 307-228.000.
- Air-A-Plane Corporation: *See—*
  - Shepheard, Thomas E., 4,715,077, Cl. 14-71.500.
- Air, Ltd.: *See—*
  - May, Michael G., 4,673,455, Cl. 156-294.000.
- Air-O-Lator Corporation: *See—*
  - Cramer, Barry G.; and Cramer, Roy A., 4,671,872, Cl. 210-219.000.
  - Cramer, Barry G.; and Cramer, Roy A., 4,710,325, Cl. 261-24.000.
- Air Physics Corporation: *See—*
  - Stone, Judson F., 4,672,504, Cl. 361-231.000.
- Air Plus, Inc.: *See—*
  - Hess, Jack H., 4,638,519, Cl. 5-455.000.
- Air Products and Chemicals, Inc.: *See—*
  - Agrawal, Rakesh; and Cormier, Thomas E., Sr., 4,662,916, Cl. 62-13.000.
  - Agrawal, Rakesh; and Cormier, Thomas E., Sr., 4,662,918, Cl. 62-13.000.
  - Agrawal, Rakesh; and Auvil, Steven R., 4,705,548, Cl. 62-22.000.
  - Auvil, Steven R.; and Agrawal, Rakesh, 4,654,063, Cl. 62-18.000.
  - Auvil, Steven R.; and Agrawal, Rakesh, 4,715,873, Cl. 62-13.000.
  - Ayres, Calvin L.; and Rowles, Howard C., 4,707,170, Cl. 62-24.000.
  - Bauman, Bernard D.; and Mehta, Rajendra K., 4,659,674, Cl. 436-5.000.
  - Bauman, Bernard D.; and Burdick, Patricia E., 4,692,470, Cl. 521-55.000.
  - Benander, Robert E.; and Holzl, Robert A., 4,698,244, Cl. 427-253.000.
  - Bennett, Douglas L.; Schwarz, Alexander; and Thorogood, Robert M., 4,653,572, Cl. 165-1.000.
  - Bennett, Douglas L.; Ludwig, Keith A., and Schwarz, Alexander, 4,700,771, Cl. 165-1.000.
  - Berrettini, Bruce J.; Bucci, Donald P.; and Hollopeter, Roy D., 4,649,968, Cl. 141-95.000.
  - Burgoyne, William F., Jr.; and Dixon, Dale D., 4,711,737, Cl. 252-77.000.
  - Burgoyne, William F., Jr.; and Dixon, Dale D., 4,714,778, Cl. 564-305.000.
  - Burke, Thomas W.; and Klee, David J., 4,635,408, Cl. 51-292.000.
  - Cabrera, Alejandro L.; Kirner, John F.; Miller, Robert A.; and Pierantozzi, Ronald, 4,714,632, Cl. 427-255.100.
  - Carr, Richard V. C.; Toseland, Bernard A.; and Ross, David S., 4,642,396, Cl. 568-934.000.
  - Chen, Michael S., 4,684,514, Cl. 423-574.00R.
  - Choe, Jung S.; Auvil, Steven R.; and Agrawal, Rakesh, 4,701,187, Cl. 55-16.000.
  - Cormier, Thomas E., Sr.; and Agrawal, Rakesh, 4,662,917, Cl. 62-13.000.
  - Davis, Ruth A., 4,662,919, Cl. 62-25.000.
  - Dean, Sheldon W., 4,662,921, Cl. 62-45.000.
  - DiMartino, Stephen P., 4,704,267, Cl. 423-648.00R.
  - Dixon, Dale D.; Daughenbaugh, Randall J.; and Fowlkes, Robert L., 4,645,834, Cl. 544-106.000.
  - Dixon, Dale D.; and Daughenbaugh, Randall J., 4,647,663, Cl. 544-106.000.
  - Dixon, Dale D.; and Burgoyne, William F., 4,693,837, Cl. 252-50.000.
  - Dyer, Paul N.; Nordquist, Andrew F.; and Pierantozzi, Ronald, 4,652,587, Cl. 518-717.000.
  - Dyer, Paul N.; Pierantozzi, Ronald; and Withers, Howard P., 4,670,472, Cl. 518-700.000.
  - Dyer, Paul N.; Pierantozzi, Ronald; and Withers, Howard P., 4,681,867, Cl. 502-242.000.
  - Fernbacher, John M.; and Hansel, James G., 4,683,947, Cl. 166-251.000.
  - Garg, Diwakar; Givens, Edwin N.; and Schweighardt, Frank K., 4,695,369, Cl. 208-112.000.
  - Goldstein, Joel E.; and Mao, Chung-Ling, 4,647,611, Cl. 524-458.000.
  - Goodell, Paul D.; Huston, Ernest L.; Rudman, Peter S.; and Sandrock, Gary D., 4,687,650, Cl. 423-248.000.
  - Gottier, Gerry N., 4,654,062, Cl. 62-17.000.
  - Graf, Hans-Juergen; and Randke, Peter T., 4,696,411, Cl. 220-281.000.
  - Holzl, Robert A.; and Benander, Robert E., 4,716,064, Cl. 428-73.000.
  - Hong, Sun-Nan; and Spector, Marshall L., 4,650,585, C 210-605.000.
  - Hopkins, Jeffrey A.; DiMartino, Stephen P.; and Nicholas, Dav M., 4,654,047, Cl. 62-23.000.
  - Iacoviello, John G., 4,673,702, Cl. 524-459.000.
  - Iacoviello, John G., 4,678,829, Cl. 524-459.000.
  - Iacoviello, John G., 4,714,731, Cl. 524-459.000.
  - Iacoviello, John G., 4,716,192, Cl. 524-549.000.
  - Johnson, Thomas A.; and Cooper, Cawas A., 4,709,028, C 544-106.000.
  - Kleinberg, William T., 4,702,757, Cl. 62-24.000.
  - Kleinberg, William T., 4,704,147, Cl. 62-24.000.
  - Kleinberg, William T., 4,704,148, Cl. 62-24.000.
  - Kratz, Wilbur C.; and Sircar, Shivaji, 4,685,939, Cl. 55-25.000.
  - Kumar, Ravi, 4,711,645, Cl. 55-26.000.
  - Langsam, Michael, 4,657,564, Cl. 55-16.000.
  - Lenney, William E., 4,694,056, Cl. 526-202.000.
  - Longsworth, Ralph C.; and Steyert, William A., 4,643,001, C 62-514.0JT.
  - Mao, Chung-Ling, 4,698,384, Cl. 524-458.000.
  - Maroulis, Peter J.; Coe, Charles G.; Kuznicki, Steven M.; Clar Patrick J.; and Roberts, David A., 4,713,362, Cl. 502-85.000.
  - Marsella, John A., 4,680,393, Cl. 544-170.000.
  - Marsella, John A., 4,709,034, Cl. 544-401.000.
  - Marten, Finn L., 4,675,360, Cl. 525-60.000.
  - Marten, Finn L., 4,708,999, Cl. 526-320.000.
  - Milligan, Barton; Starner, William E.; Grandin, Roland E., a Casey, Jeremiah P., 4,683,279, Cl. 528-67.000.
  - Murphy, James R., 4,666,588, Cl. 208-251.00H.
  - Newton, Charles L., 4,675,037, Cl. 62-28.000.
  - Peterson, Janice C.; and DiMartino, Stephen P., 4,696,806, C 423-248.000.
  - Petrella, Robert G.; and Scarpati, Michael, 4,707,501, C 521-115.000.
  - Pinschmidt, Robert K., Jr.; Dixon, Dale D.; Burgoyne, William Jr.; and Goldstein, Joel E., 4,663,410, Cl. 526-263.000.
  - Pinschmidt, Robert K., Jr.; Dixon, Dale D.; and Burgoyne, Willi F., Jr., 4,691,026, Cl. 548-531.000.
  - Pohl, Michael C.; Carr, Richard V. C.; and Sawicki, John 4,650,912, Cl. 568-934.000.
  - Ramprasad, Dorai; and Busch, Daryle H., 4,680,037, Cl. 55-16.0
  - Riley, Eric K.; Dudill, Roger; and Young, Philip J., 4,673,348, C 431-115.000.
  - Ritter, Richard D., 4,654,094, Cl. 156-80.000.
  - Ritter, Richard D., 4,654,107, Cl. 156-359.000.
  - Roberts, George W.; Hansel, James G.; and Shahani, Goutam 4,690,215, Cl. 166-261.000.
  - Rowles, Howard C., 4,714,487, Cl. 62-24.000.
  - Santangelo, Joseph G.; Weber, James J.; Sinclair, Richard G.; a Tenaglia, Richard D., 4,633,929, Cl. 164-34.000.
  - Santangelo, Joseph G.; Weber, James J.; and Sinclair, Richard 4,665,136, Cl. 525-523.000.
  - Schwarz, Alexander; Kalb, Charles E.; and Goebel, Charles 4,715,431, Cl. 105-110.000.
  - Schwarz, Alexander; and Kalb, Charles E., 4,715,433, 165-110.000.
  - Shenoy, Thirthahalli A.; and Winters, Arthur R., Jr., 4,637,216, 62-54.000.
  - Shenoy, Thirthahalli A., 4,655,809, Cl. 62-18.000.
  - Shenoy, Thirthahalli A.; and Tao, John C., 4,677,827, 60-648.000.
  - Shenoy, Thirthahalli A.; and Wilson, Keith B., 4,707,994, 62-11.000.
  - Sircar, Shivaji; and Koch, William R., 4,690,696, Cl. 55-26.000.
  - Sircar, Shivaji; and Golden, Timothy C., 4,702,749, Cl. 55-33.0
  - Sircar, Shivaji, 4,705,541, Cl. 55-26.000.
  - Steyert, William A., 4,653,284, Cl. 62-94.000.
  - Stuber, Wayne G.; Studer, David W.; and Winters Jr., Arthur 4,659,351, Cl. 62-18.000.
  - Thorogood, Robert M., 4,699,209, Cl. 165-110.000.
  - Weimer, Robert F., 4,708,860, Cl. 423-579.000.
- Air Stamping, Inc.: *See—*
  - Robertson, Albert W., 4,704,964, Cl. 101-425.000.
- Air Traction Industries Limited: *See—*
  - Dobbie, Clelland R. M., 4,658,924, Cl. 180-14.100.
- Airapetian, Robert R.: *See—*
  - Mkhikian, Robert M.; Shaginian, Suren G.; Markarian, Temur Khaidukov, Georgy K.; Velidzhanian, Sofia V.; Manuk Artashes R.; Karapetian, Artur K.; Kazarian, Aram V.; Airapetian, Robert R., 4,708,628, Cl. 425-406.000.
- Airborne Electronics, Inc.: *See—*
  - Freymuth, William P., 4,636,711, Cl. 323-282.000.
  - Freymuth, William P., 4,644,255, Cl. 323-282.000.
  - Freymuth, William P., 4,658,203, Cl. 323-282.000.
- Airbox S.r.l: *See—*
  - Bellieni, Lucio, 4,699,046, Cl. 98-115.400.
- Airclean Engineering Products: *See—*
  - Fairgrieve, Donald F., 4,655,359, Cl. 220-67.000.
- Aircraft Materials Limited: *See—*
  - Burnside, Martin B., 4,685,176, Cl. 24-631.000.
- Aircraft Specialties, Inc.: *See—*
  - Wilcox, Melvin S., 4,688,761, Cl. 254-104.000.
- Aires, Ramon H.; Clark, Charles A., Jr.; Ito, Roy A.; and Hack Kenneth R., to Teloc R & D Ltd. Electronic locating system persons receiving telephone calls. 4,649,385, 3-10-87, Cl. 379-57.

Aires, Raphael: *See—*
- Come, Philippe; and Aires, Raphael, 4,666,057, Cl. 220-368.000.

Airhart, Tom P., to Atlantic Richfield Company. Vibratory seismic source for generating combined compressional and shear waves. 4,655,314, 4-7-87, Cl. 181-113.000.

Airhart, Tom P., to Atlantic Richfield Company. Mounting and control means for full waveform seismic source. 4,660,674, 4-28-87, Cl. 181-113.000.

Airhart, Tom P., to Atlantic Richfield Company. Vibratory seismic source for generating combined compressional and shear waves. 4,660,675, 4-28-87, Cl. 181-113.000.

Airhart, Tom P., to Atlantic Richfield Company. Vent means for closed air system impact-type seismic source. 4,702,344, 10-27-87, Cl. 181-121.000.

Airmar Technology Corporation: *See—*
- Boucher, Stephen G.; and Jeffers, Robert K., 4,644,787, Cl. 73-187.000.
- Boucher, Stephen G., 4,644,788, Cl. 73-187.000.
- Boucher, Stephen G.; and Lagace, Maurice P., 4,667,915, Cl. 248-293.000.

Airmaster Fan Company: *See—*
- Breining, Frank E.; and Janisse, Dwight C., 4,672,234, Cl. 307-147.000.
- LaZebnik, Robert H.; Breining, Frank E.; and Toland, Martin J., 4,657,478, Cl. 415-126.000.

Airmaster Sales Ltd.: *See—*
- Williamson, Wilfred G., 4,685,524, Cl. 172-54.500.

Airpax Corporation: *See—*
- Harper, George S., 4,707,674, Cl. 335-13.000.

Airpot Corporation: *See—*
- Leonard, George H., 4,670,940, Cl. 16-308.000.
- Leonard, George H., 4,681,307, Cl. 267-154.000.

AirSamplex Corporation: *See—*
- Sainsbury, Cleo L., 4,650,432, Cl. 441-35.000.

Airsonics License Partnership: *See—*
- Gallant, Ben J., 4,635,897, Cl. 251-5.000.
- Gallant, Ben J., 4,708,534, Cl. 406-75.000.

Airstream, Inc.: *See—*
- Kitzmiller, James A.; and Sell, Kevin D., 4,655,467, Cl. 280-81.00B

Airtite, Inc.: *See—*
- Bessert, David, 4,676,036, Cl. 52-126.600.

Airus Incorporated: *See—*
- Fenwick, David, 4,704,703, Cl. 364-900.000.

Airway Industries, Inc.: *See—*
- Kim, Hyun S., 4,696,077, Cl. 16-125.000.

Aisaka, Kazuo: *See—*
- Cho, Hidetsura; Aisaka, Kazuo; and Emon, Mariko, 4,640,922, Cl. 514-256.000.
- Cho, Hidetsura; Aisaka, Kazuo; Sato, Fumio; and Ishihara, Takafumi, 4,683,234, Cl. 514-256.000.
- Terada, Osamu; and Aisaka, Kazuo, 4,657,856, Cl. 435-28.000.
- Uwajima, Takayuki; and Aisaka, Kazuo, 4,670,389, Cl. 435-172.300.
- Uwajima, Takayuki; and Aisaka, Kazuo, 4,710,470, Cl. 435-200.000.

Aisan Industry Co., Ltd.: *See—*
- Yoshida, Shigeru; and Koeda, Kenji, 4,658,796, Cl. 123-519.000.

Aisan Kogyo Kabushiki Kaisha: *See—*
- Ando, Tsuneo; Kasuya, Kazusato; Yasuda, Takeru; and Asada, Yukitoshi, 4,685,434, Cl. 123-438.000.
- Ando, Tsuneo; Kasuya, Kazusato; Asada, Yukitoshi; and Sugimoto, Hironobu, 4,705,002, Cl. 123-440.000.
- Asano, Hitoshi, 4,703,215, Cl. 310-328.000.
- Eitoku, Kenji; and Hayashi, Kenji, 4,715,220, Cl. 73-118.100.
- Haruta, Kazumi; and Yoshida, Shigeru, 4,702,216, Cl. 123-520.000.
- Inoguchi, Kenichi; Iwakura, Yoichi; and Umehara, Jun, 4,644,919, Cl. 123-438.000.
- Inoguchi, Kenichi; Iwakura, Yoichi; Tanaka, Hirofumi; and Umehara, Jun, 4,676,204, Cl. 123-179.00G.
- Iwata, Minoru; Takada, Shigetaka; and Takeuchi, Hitoshi, 4,657,189, Cl. 239-585.000.
- Nomura, Yoshihisa; Suda, Koichi; and Kozawa, Tadashi, 4,694,734, Cl. 92-130.00R.
- Okamura, Masayuki, 4,679,440, Cl. 73-118.100.

Aishton, Thomas H.: *See—*
- Macemon, Herbert J.; Fisher, John L.; Piatt, Clair E.; Martin, Richard W.; Winbigler, Paul H.; and Aishton, Thomas H., 4,665,952, Cl. 140-92.200.

Aisin Kogyo Kabushiki Kaisha: *See—*
- Eitoku, Kenji; and Hayashi, Kenji, 4,703,649, Cl. 73-118.100.

Aisin Seiki Co., Ltd.: *See—*
- Shiraishi, Daiichi; Iwasaki, Eiji; and Fukumoto, Ryoichi, 4,644,695, Cl. 49-352.000.

Aisin Seiki Kabushiki Kaisha: *See—*
- Adachi, Yoshiharu; Saitoh, Tadao; and Nishimura, Takumi, 4,636,008, Cl. 303-92.000.
- Adachi, Yoshiharu; Nishimura, Takumi; Saito, Tadao; Shibata, Hirochika; Nakanishi, Nobuyasu; Shirai, Akira; and Noguchi, Noboru, 4,636,010, Cl. 303-115.000.
- Adachi, Yoshiharu; Fujimori, Fumio; Kondo, Toshio; Uemura, Hiroshi; and Shibatani, Juichi, 4,662,484, Cl. 188-73.450.
- Adachi, Yoshiharu; Fujimori, Fumio; Kondo, Toshio; Uemura, Hiroshi; and Shibatani, Juichi, 4,678,064, Cl. 188-73.450.
- Akagi, Motonobu, 4,674,464, Cl. 123-571.000.
- Ando, Masamoto; Takeuchi, Hiroaki; Yamada, Toyohisa; Yamanaka, Toshihiko; Nakanishi, Nobuyasu; and Noguchi, Noboru, 4,655,509, Cl. 303-10.000.
- Ando, Masamoto; Takeuchi, Hiroaki; Yamada, Toyohisa; and Yamanaka, Toshihiko, 4,660,899, Cl. 303-115.000.
- Asano, Masumi; and Hattori, Noriaki, 4,664,605, Cl. 417-407.000.
- Chiba, Yoshinori; Ishida, Keiichi; and Sugiura, Fumio, 4,690,456, Cl. 297-284.000.
- Fukumoto, Ryoichi; and Hirose, Kimiharu, 4,665,651, Cl. 49-352.000.
- Furukawa, Tamotsu; and Mori, Masanori, 4,674,345, Cl. 74-335.000.
- Furusawa, Choji; and Ishiguro, Toshiaki, 4,658,676, Cl. 74-866.000.
- Furusawa, Choji; Goto, Shigeki; Maruchi, Satoshi; and Minemoto, Isamu, 4,669,435, Cl. 123-323.000.
- Furusawa, Choji; and Ishiguro, Toshiaki, 4,677,879, Cl. 74-866.000.
- Furuta, Yohichi; Yamasaki, Takeo; Tachino, Tomio; and Tanikawa, Masayoshi, 4,643,043, Cl. 74-503.000.
- Harada, Kuniyoshi, 4,651,854, Cl. 192-8.00C.
- Hasegawa, Masahiko; Naito, Yoshihiro; Tsunekawa, Masaru; and Momose, Yutaka, 4,677,824, Cl. 60-521.000.
- Hashimoto, Akio; and Yasuda, Tomio, 4,667,759, Cl. 180-79.100.
- Hashimoto, Nobuyuki; and Nishio, Shigeru, 4,634,179, Cl. 297-284.000.
- Hattori, Takemi; and Kawamura, Reiki, 4,679,855, Cl. 297-486.000.
- Hattori, Takemi; and Kawamura, Reiki, 4,697,848, Cl. 297-460.000.
- Hattori, Takemi; and Takeda, Nobuhiko, 4,714,291, Cl. 297-284.000.
- Hattori, Takemi; and Takeda, Nobuhiko, 4,715,653, Cl. 297-284.000.
- Hayashi, Masaharu; and Nakagawa, Makoto, 4,664,593, Cl. 415-119.000.
- Hirose, Kimiharu; and Furuya, Yoshikatsu, 4,646,887, Cl. 192-8.00C.
- Hochstein, Peter; and Imai, Nobuyuki, 4,712,433, Cl. 73-862.360.
- Horiuchi, Ichiro; Ohshima, Shoich; and Takeshita, Keiji, 4,660,433, Cl. 74-476.000.
- Ida, Shuichiro; Shimizu, Katsumi; and Hotta, Junichi, 4,676,114, Cl. 74-335.000.
- Iida, Norikazu; Fukumoto, Ryoichi; and Mori, Keiji, 4,699,024, Cl. 74-805.000.
- Iizawa, Ryuji; and Murakami, Koji, 4,641,067, Cl. 318-287.000.
- Ikeyama, Takeshi, 4,664,127, Cl. 128-689.000.
- Ikeyama, Takeshi, 4,706,072, Cl. 340-576.000.
- Inagaki, Toshiyuki; and Furusawa, Choji, 4,646,519, Cl. 60-416.000.
- Inagaki, Toshiyuki, 4,649,765, Cl. 74-359.000.
- Inagaki, Toshiyuki; and Maeda, Hiroaki, 4,706,549, Cl. 91-448.000.
- Inden, Masahiro; Kuwana, Kazutaka; Nakanishi, Nobuyasu; and Noguchi, Noboru, 4,679,589, Cl. 137-596.170.
- Ishibashi, Kiyoshi; and Ukai, Yujiro, 4,700,545, Cl. 62-6.000.
- Ishida, Keiichi; and Terada, Takami, 4,678,232, Cl. 297-408.000.
- Ishii, Masami; Motoyama, Hiroshi; Yabuno, Ryohei; and Isomura, Akihito, 4,653,165, Cl. 29-159.00R.
- Ishii, Masami; Sugimoto, Hitoshi; Ozawa, Mitsuhiro; and Onoda, Yoshitomi, 4,663,957, Cl. 72-179.000.
- Ishikawa, Masanobu; Nishikawa, Masumi; Ono, Satoshi; Hiramitsu, Tetsushi; and Hirano, Atsuo, 4,698,838, Cl. 379-58.000.
- Ito, Shoji, 4,665,947, Cl. 137-625.210.
- Iwasaki, Shinichiro, 4,712,034, Cl. 310-217.000.
- Iwase, Yoshinobu; and Morisawa, Kunio, 4,651,577, Cl. 74-12.000.
- Kaga, Matasaburo; and Takeda, Toshio, 4,666,384, Cl. 418-150.000.
- Kano, Noboru; and Saito, Akinori, 4,664,440, Cl. 296-214.000.
- Kantrowitz, Adrian; Freed, Paul S.; Tachi, Hiroyuki; and Suzuki, Akira, 4,692,148, Cl. 604-96.000.
- Kato, Takayuki; and Miyamoto, Makoto, 4,677,374, Cl. 324-65.00R.
- Kato, Takayuki; and Miyamoto, Makoto, 4,686,453, Cl. 324-65.00R.
- Kawabata, Yasuhiro, 4,642,991, Cl. 60-602.000.
- Kawabata, Yasuhiro; Ito, Shoji; Kawai, Yukio; Sasano, Mitsunori; and Ohmura, Fusaji, 4,665,948, Cl. 137-625.480.
- Kawata, Shoji; and Hyodo, Hitoshi, 4,646,861, Cl. 180-176.000.
- Kayakabe, Nobuhiro; Sugiura, Tadashi; and Sugimoto, Hitoshi, 4,648,163, Cl. 29-159.00R.
- Kazaoka, Kenichi; Okazaki, Hiroshi; and Inaba, Yasuhisa, 4,636,006, Cl. 297-458.000.
- Kazaoka, Kenichi; Okazaki, Hiroshi; and Hyodo, Motoi, 4,666,209, Cl. 297-344.000.
- Kazaoka, Kenichi; and Okazaki, Hiroshi, 4,671,569, Cl. 297-284.000.
- Kazaoka, Kenichi; Okazaki, Hiroshi; and Inaba, Yasuhisa, 4,682,763, Cl. 267-89.000.
- Kazaoka, Kenichi; Okazaki, Hiroshi; and Inaba, Yasuhisa, 4,687,251, Cl. 297-337.000.
- Kazaoka, Kenichi; and Okazaki, Hiroshi, 4,709,965, Cl. 297-366.000.
- Kazaoka, Kenichi; Wakamatsu, Fumio; and Shinkai, Yasuo, 4,711,497, Cl. 297-458.000.
- Kito, Masahiro; and Mori, Katsuhiro, 4,691,761, Cl. 165-32.000.
- Kito, Masahiro; and Mori, Katsuhiro, 4,694,894, Cl. 165-135.000.
- Kobayashi, Daisaku; Itaba, Tunesaku; and Momose, Yutaka, 4,691,591, Cl. 74-606.00A.
- Kobayashi, Daisaku; Itaba, Tunesaku; and Momose, Yutaka, 4,694,707, Cl. 74-606.00A.
- Kobayashi, Hideyuki, 4,641,553, Cl. 74-866.000.
- Kobayashi, Hideyuki, 4,686,871, Cl. 74-866.000.
- Kobayashi, Kiyonori; Kamiya, Masakazu; and Kato, Satoshi, 4,663,983, Cl. 74-574.000.
- Kodama, Hisashi, 4,635,593, Cl. 123-90.550.
- Kodama, Hisashi; and Okabe, Yoshio, 4,695,268, Cl. 474-110.000.
- Kodama, Hisashi; and Okabe, Yoshio, 4,713,045, Cl. 474-135.000.

Koike, Renji; and Hattori, Masayoshi, 4,646,664, Cl. 112-67.000.

Kuno, Shozo, 4,697,678, Cl. 192-70.280.

Kuromitu, Hiromu, 4,660,381, Cl. 60-548.000.

Maruyama, Katsuaki; Oishi, Yaichi; Terada, Takami; and Hyodo, Motoi, 4,652,049, Cl. 297-284.000.

Masuda, Mitsuyoshi; Mori, Keiki; and Yukimoto, Kazuyoshi, 4,659,141, Cl. 296-223.000.

Masumoto, Tsuyoshi; Inoue, Akihisa; Oka, Tetsuo; Ishii, Masami; Motoyama, Hiroshi; and Yabuno, Ryohei, 4,655,079, Cl. 73-295.000.

Misu, Takahiro; and Nakagawa, Fumio, 4,665,693, Cl. 60-330.000.

Mita, Hideo; and Kurazono, Shuichi, 4,705,097, Cl. 165-4.000.

Mitsui, Tsutomu, 4,657,041, Cl. 137-116.300.

Mitsumoto, Takashi; Eiermann, Dankwart; and Nuber, Roland, 4,700,740, Cl. 137-512.150.

Miyata, Kinichi, 4,685,503, Cl. 164-14.000.

Mizuno, Tomokimi, 4,651,808, Cl. 165-4.000.

Momose, Yutaka; and Yamaguro, Akira, 4,708,639, Cl. 431-215.000.

Murakami, Yuichi; and Yamamoto, Tomohiro, 4,673,832, Cl. 307-326.000.

Mushika, Sadahiko, 4,655,748, Cl. 604-96.000.

Nakagawa, Takeo; and Suzuki, Kiyoshi, 4,640,156, Cl. 82-1.00C.

Nakamura, Kaoru; Sakata, Shinji; Ochiai, Chiaki; Furuta, Yoichi; and Tsubouchi, Kaoru, 4,707,989, Cl. 60-589.000.

Nakamura, Shunichi, 4,635,398, Cl. 49-413.000.

Nakane, Mototaka; and Tanaka, Shizuo, 4,640,400, Cl. 192-70.250.

Nakanishi, Nobuyasu; Ishikawa, Masakazu; Shirai, Akira; Nomura, Yoshihisa; Noguchi, Noboru; and Shibata, Hirochika, 4,668,024, Cl. 303-119.000.

Nakao, Toshiyuki; Furukawa, Tamotsu; and Mori, Masanori, 4,653,352, Cl. 74-866.000.

Nakayama, Kouichi, 4,712,378, Cl. 60-525.000.

Naruse, Yoshihiro, 4,674,073, Cl. 367-105.000.

Nishida, Kouji; Hayashi, Chikahisa; and Kanai, Makoto, 4,647,722, Cl. 379-63.000.

Nishii, Michiharu; Furuta, Youichi; Tsubouchi, Kaoru; Murata, Takeo; Shibatani, Juichi; and Kiriyama, Takashi, 4,683,807, Cl. 92-169.000.

Nishikata, Masahiro; and Nozaki, Masato, 4,644,909, Cl. 123-41.100.

Nishikawa, Masumi; Ishikawa, Masanobu; Sato, Hiroki; Toyoda, Shuhei; and Ishii, Hakumi, 4,633,732, Cl. 74-493.000.

Nishikawa, Masumi; Ishikawa, Masanobu; and Nakashima, Hiroshi, 4,661,752, Cl. 318-434.000.

Nishikawa, Masumi; Ishikawa, Masanobu; Watanabe, Hiroshi; Kikuchi, Kenichi; and Takizawa, Sumio, 4,669,325, Cl. 74-89.150.

Nishikawa, Masumi; and Ishikawa, Masanobu, 4,679,457, Cl. 74-441.000.

Nishimura, Takumi; and Shibata, Hirochika, 4,652,061, Cl. 303-116.000.

Nishimura, Takumi; Saito, Tadao; Nakanishi, Nobuyasu; and Noguchi, Noboru, 4,700,991, Cl. 303-113.000.

Ogasawara, Tsunehiko; Arakawa, Yoshichika; Sumiya, Koji; and Sakaguchi, Yoshikazu, 4,633,739, Cl. 74-869.000.

Oguma, Tomio; Takeda, Hisanobu; and Asou, Yasuhiro, 4,700,082, Cl. 307-116.000.

Okabe, Yoshio, 4,657,524, Cl. 474-110.000.

Okabe, Yoshio; and Shirai, Eiji, 4,662,325, Cl. 123-90.580.

Okamoto, Toshiaki; and Fukuta, Masahiro, 4,666,385, Cl. 418-201.000.

Okamoto, Yuji; and Nakamura, Shunichi, 4,649,669, Cl. 49-489.000.

Okumura, Nobuo, 4,708,725, Cl. 62-6.000.

Omitsu, Takashi, 4,699,025, Cl. 74-866.000.

Omitsu, Takashi, 4,700,590, Cl. 74-857.000.

Ota, Isamu; Nishimura, Yutaka; Nishio, Shigeru; and Yogo, Kenji, 4,700,682, Cl. 123-516.000.

Oumi, Takeharu; Kageyama, Toshinobu; and Mushika, Sadahiko, 4,648,385, Cl. 128-1.00D.

Sawatari, Takeo; Nakamura, Mitsutaka; and Sugiura, Toshihiro, 4,677,847, Cl. 73-64.000.

Shiraki, Manabu; Amano, Hiroyuki; Nishimura, Tomoaki; and Shimizu, Katsumasa, 4,651,041, Cl. 310-180.000.

Shiraki, Manabu; Amano, Hiroyuki; Nishimura, Tomoaki; and Shimizu, Katsumasa, 4,698,535, Cl. 310-156.000.

Suzaki, Shunkichi; Shirai, Toshiaki; Adachi, Hisanobu; Hayashi, Masaharu; Hattori, Kenji; and Takakura, Yoshinari, 4,687,132, Cl. 236-35.000.

Takabayashi, Toshiyuki, 4,645,024, Cl. 180-79.100.

Takahashi, Shigeo; Hasegawa, Hiromi; Furusawa, Choji; and Morisawa, Kunio, 4,651,773, Cl. 137-315.000.

Takeda, Hisanobu; and Aso, Yasuhiro, 4,704,748, Cl. 4-420.400.

Takemura, Shinji; Hida, Tsuneo; Matsuzaki, Yutaka; and Ohnishi, Kenichi, 4,634,945, Cl. 318-469.000.

Tamura, Toru; Shibata, Noriyoshi; and Kawakami, Toshiro, 4,639,148, Cl. 384-420.000.

Tanaka, Seiya, 4,702,360, Cl. 192-58.00B.

Tanigawa, Naoya; Inagaki, Toshiyuki; and Maeda, Hiroyuki, 4,653,533, Cl. 137-565.000.

Terada, Takami; and Hayashi, Masayuki, 4,645,159, Cl. 248-429.000.

Terada, Takami; and Suzuki, Saburo, 4,660,886, Cl. 297-367.000.

Tsuda, Jou; and Ishii, Masami, 4,636,255, Cl. 106-1.220.

Tsunekawa, Masaru; Naito, Yoshihiro; Hyodo, Masaya; and Hayashi, Tatsuya, 4,706,457, Cl. 60-521.000.

Tsuruta, Matsuhisa, 4,681,194, Cl. 188-71.900.

Umebayashi, Kazuyuki; and Yamada, Takahiro, 4,638,287, Cl. 340-22.000.

Wakamatsu, Fumio, 4,715,651, Cl. 297-219.000.

Watanabe, Tetsumi; and Yamaguro, Akira, 4,633,667, Cl. 60-517.000.

Watanabe, Tetsumi; Yamaguro, Akira; and Yamaguchi, Susumu, 4,639,212, Cl. 431-183.000.

Watanabe, Toshiaki, 4,698,872, Cl. 15-250.200.

Yamada, Takahiro, 4,635,029, Cl. 340-22.000.

Yamada, Yukifumi; Terada, Takami; and Miyagawa, Toshihito, 4,705,318, Cl. 297-362.000.

Yamamoto, Junji; Kanou, Noboru; and Usami, Masayuki, 4,662,672, Cl. 296-224.000.

Yano, Hideo; Kano, Keiichi; Ozawa, Hitoshi; Kato, Shinji; and Takagi, Yoshio, 4,666,786, Cl. 428-544.000.

Yasuda, Keiji; Oda, Yukihisa; Hamajima, Shigemitsu; Ishii, Masami; Nakanishi, Katsumi; Tsuzuki, Takayoshi; and Tsuda, Jyou, 4,714,804, Cl. 200-11.0DA.

Yasuda, Tomio; and Hashimoto, Akio, 4,674,588, Cl. 180-142.000.

Yogo, Kenji; and Nomura, Isshi, 4,658,798, Cl. 123-559.000.

Yogo, Kenji, 4,703,739, Cl. 123-520.000.

Yogo, Kenji, 4,714,193, Cl. 236-75.000.

Yukimoto, Kazuyoshi; Fukura, Kenichi; and Yamauchi, Nobuhi 4,695,036, Cl. 254-126.000.

Aisin Seiki Kabushikikaisha: *See—*

Hirao, Kouji; Kuwana, Kazutaka; and Asami, Ken, 4,702,123, Cl. 74-526.000.

Aisin-Warner Kabushiki Kaisha: *See—*

Harada, Yoshiharu; Taga, Yutaka; Nishikawa, Seiichi; Hayakawa, Yoichi; and Kawai, Masao, 4,688,449, Cl. 74-740.000.

Harada, Yoshiharu; Taga, Yutaka; Fukumura, Kagenori; Hayakawa, Yoichi; and Kawai, Masao, 4,693,143, Cl. 74-866.000.

Harada, Yoshiharu; Taga, Yutaka; Fukumura, Kagenori; Hayakawa, Yoichi; and Kawai, Masao, 4,708,032, Cl. 74-866.000.

Harada, Yoshiharu; Taga, Yutaka; Fukumura, Kagenori; Hayakawa, Yoichi; and Kawai, Masao, 4,713,988, Cl. 74-868.000.

Miki, Nobuaki; Nakamura, Shinya; and Shibata, Kazuhiko, 4,662,249, Cl. 74-869.000.

Miura, Masakatsu; and Aoki, Hideyuki, 4,711,138, Cl. 74-761.000.

Moroto, Shuzo; and Sakakibara, Shiro, 4,706,518, Cl. 74-689.000.

Ogasawara, Tsunehiko; Arakawa, Yoshichika; Sumiya, Koji; and Sakaguchi, Yoshikazu, 4,633,739, Cl. 74-869.000.

Sakakibara, Shiro; Kawamoto, Mutsumi; and Ando, Masahiko, 4,633,736, Cl. 74-689.000.

Sumiya, Koji; Sakaguchi, Yoshikazu; Taniguchi, Takuji; Taga, Yutaka; and Shindo, Yoshio, 4,697,474, Cl. 74-733.000.

Sumiya, Koji; and Moroto, Shuzo, 4,712,635, Cl. 180-197.000.

Tsukamoto, Kazumasa; Hayabuchi, Masahiro; Maeda, Koji; Watanabe, Kazuaki; and Taga, Yutaka, 4,693,348, Cl. 192-3.290.

Yokoyama, Shoji, 4,699,604, Cl. 474-18.000.

Aisin-Warner Limited: *See—*

Fujiura, Kaiya; Hayakawa, Yoichi; Taga, Yutaka; and Nakamura, Shinya, 4,663,992, Cl. 74-869.000.

Fujiura, Kaiya; Hayakawa, Yoichi; Harada, Yoshiharu; and Fukumura, Kagenori, 4,699,249, Cl. 184-11.100.

Hayakawa, Yoichi; Kawai, Masao; Taga, Yutaka; Watanabe, Kazuaki; and Harada, Yoshiharu, 4,679,450, Cl. 74-752.00A.

Hayakawa, Yoichi; Kawai, Masao; Yoshizawa, Kenichi; Harada, Yoshiharu; and Fukumura, Kagenori, 4,697,479, Cl. 74-867.000.

Hayakawa, Yoichi; Kawai, Masao; Nishikawa, Seiichi; and Fukumura, Kagenori, 4,713,989, Cl. 74-869.000.

Hosono, Chihiro; Hayakawa, Yoichi; Kubo, Seitoku; Taga, Yutaka; and Nakamura, Shinya, 4,673,072, Cl. 192-3.570.

Kobayashi, Koji; Sumiya, Koji; Taga, Yutaka; and Watanabe, Kazuaki, 4,693,353, Cl. 192-85.0AA.

Moroto, Shuzo; Taniguchi, Takao; and Sakakibara, Shiro, 4,673,071, Cl. 192-3.210.

Moroto, Shuzo; Sumiya, Koji; Watanabe, Kazuaki; Kubo, Seitoku; Kobayashi, Koji; and Taga, Yutaka, 4,714,146, Cl. 192-85.0AA.

Sakakibara, Shiro; and Koshiba, Sadahiro, 4,650,444, Cl. 474-201.000.

Sakakibara, Shiro; Sobue, Norio; Miyaishi, Yoshinori; Koshiba, Sadahiro; and Hasebe, Masahiro, 4,655,735, Cl. 474-245.000.

Sakakibara, Shiro; and Tsuzuki, Shigeo, 4,657,122, Cl. 192-3.310.

Sakakibara, Shiro; and Tsuzuki, Shigeo, 4,660,692, Cl. 192-3.310.

Sakakibara, Shiro; and Ozaki, Kazuhisa, 4,709,793, Cl. 192-4.00A.

Shirai, Ryoichi; Yokoyama, Fumitomo; and Kuramochi, Koujiro, 4,645,441, Cl. 418-126.000.

Sumiya, Koji; Kano, Takenori; Kubo, Seitoku; and Watanabe, Kazuaki, 4,682,534, Cl. 92-130.00R.

Sumiya, Koji; Watanabe, Kazuaki; and Kubo, Seitoku, 4,690,037, Cl. 92-130.00R.

Yamada, Yoshihiro; Kawamoto, Mutsumi; Iwatsuki, Tatsuya; and Kuramochi, Koujiro, 4,646,890, Cl. 192-30.00V.

Yokoyama, Fumitomo; Kuwayama, Yoshinari; Tatsuta, Mitsugu; and Kuramochi, Koujiro, 4,683,903, Cl. 137-56.000.

Yokoyama, Shoji; and Miki, Nobuaki, 4,664,235, Cl. 192-3.290.

Aitken, Derek, to Applied Materials, Inc. Evacuated equipment. 4,682,566, 7-28-87, Cl. 118-724.000.

Aitken, Edward J.: *See—*

Mester, Zoltan C.; and Aitken, Edward J., 4,642,177, Cl. 208-113.000.

Mester, Zoltan C.; and Aitken, Edward J., 4,686,204, Cl. 502-406.000.

Aitken, Louis F. Racehorse athletic condition measuring instrument. 4,671,296, 6-9-87, Cl. 128-671.000.

- Aitken, William A.; Sedivy, Anthony J.; and Dixon, Michael S., to Synthaxe Limited. Electronic musical instrument. 4,658,690, 4-21-87, Cl. 84-1.140.
- Aitken, William J.: *See—*
  - Steen, Wayne R.; and Aitken, William J., 4,685,841, Cl. 406-84.000.
- Aitoh, Sigeru: *See—*
  - Yamaguchi, Tosinobu; Aitoh, Sigeru; and Hamasaki, Masafumi, 4,640,264, Cl. 126-263.000.
- Aiuchi, Susumu: *See—*
  - Tateishi, Hideki; Shimizu, Tamotsu; Aiuchi, Susumu; Iwashita, Katsuhiro; and Nakamura, Hiroshi, 4,675,096, Cl. 204-298.000.
- Aiuola, Franco; and Nannini, Luciano, to Azionaria Costruzioni Macchine Automatiche, A.C.M.A., S.p.A. Apparatus for supplying wrapping material to packaging machines. 4,650,450, 3-17-87, Cl. 493-179.000.
- Aiuola, Franco; and Nannini, Luciano, to Azionaria Costruzioni Macchine Automatiche, A.C.M.A. S.p.A. Wrapping bodies e.g. soap. 4,669,249, 6-2-87, Cl. 53-234.000.
- Aiuola, Franco; and Nipoti, Paolo, to Azionaria Costruzioni Macchine Automatiche, A.C.M.A. S.p.A. Volumetric filling machine. 4,676,286, 6-30-87, Cl. 141-145.000.
- Aiura, Hirochika: *See—*
  - Shirayanagi, Moriyasu; Shindo, Osamu; Aiura, Hirochika; and Hara, Tadao, 4,637,720, Cl. 356-125.000.
- Aiura, Noboru; and Sawaki, Yoshio, to Norton Christensen, Inc. Core barrel apparatus for disposing a core within a thin, flexible film casing. 4,643,265, 2-17-87, Cl. 175-226.000.
- Aivaliotis, Emmanuel: *See—*
  - McKee, Bobby D.; Cain, Michael P.; Delvecchio, Robert M.; and Aivaliotis, Emmanuel, 4,710,660, Cl. 310-178.000.
- Aivasidis, Alexander; Wandrey, Christian; and Pick, Rainer, to Kernforschungsanlage Julich Gesellschaft mit beschrankter Haftung. Fixed bed reactor column for anaerobic decomposition processes. 4,670,140, 6-2-87, Cl. 210-188.000.
- Aizaki, Yoshihiko, to Fujitsu Limited. Cash processing system. 4,638,434, 1-20-87, Cl. 364-401.000.
- Aizawa, Hiroshi: *See—*
  - Tsunekawa, Tokuichi; Date, Nobuaki; Aizawa, Hiroshi; Hosoe, Kazuya; and Urushibara, Kazunori, 4,658,304, Cl. 358-310.000.
- Aizawa, Iwao, to Hitachi, Ltd. Phase locked loop. 4,698,601, 10-6-87, Cl. 331-1.00A.
- Aizawa, Koichi; Sewa, Shingo; and Nakahara, Hideki, to Dow Corning Kabushiki Kaisha. Method of producing a silicone defoamer composition. 4,639,489, 1-27-87, Cl. 524-588.000.
- Aizawa, Koichi: *See—*
  - Kazama, Toyoki; Aizawa, Koichi; Yamaguchi, Kiyoto; Hara, Kenichi; and Iijima, Toshiyuki, 4,675,265, Cl. 430-67.000.
- Aizawa, Masandou; Yamauchi, Shigekazu; Sekine, Hisao; and Yamamoto, Takeshi, to Stanley Electric Co., Ltd. Liquid crystal color display device having two-layered electrode with pinhole connections. 4,684,218, 8-4-87, Cl. 350-339.00F.
- Aizawa, Masanobu, to Stanley Electric Co., Ltd. Multilayered matrix liquid crystal display apparatus with particular color filter placement. 4,659,182, 4-21-87, Cl. 350-339.00F.
- Aizawa, Shigeru: *See—*
  - Takahashi, Yasuyuki; Aizawa, Shigeru; Tamai, Shigeru; Yoshida, Toshiro; and Takahashi, Takeshi, 4,714,566, Cl. 252-314.000.
- Aizawa, Takemi: *See—*
  - Onuma, Eiichi; Kawamura, Youji; Obana, Hiroshi; Aizawa, Takemi; Tamai, Motomi; Inagaki, Tsuguya; and Tokita, Minoru, 4,691,869, Cl. 241-34.000.
- Aizawa, Yasuhiro: *See—*
  - Ishikawa, Toshimitsu; Ozawa, Mishihiro; Sakurai, Mikio; Konno, Mutsuo; Aizawa, Yasuhiro; Igarashi, Takao; and Hirakawa, Hiromasa, 4,686,079, Cl. 376-444.000.
- Aizawa, Yasuo: *See—*
  - Kodera, Masanori; Aizawa, Yasuo; and Ichijo, Kohji, 4,636,701, Cl. 318-635.000.
- Aizawa, Yuichi, to Daiwa Golf Co., Ltd. Iron-type golf club head. 4,664,383, 5-12-87, Cl. 273-78.000.
- Aizenshtat, Zeev: *See—*
  - Esterson, Gerald; Pismen, Moshe; and Aizenshtat, Zeev, 4,700,639, Cl. 110-347.000.
- Ajami, Alfred M., to Tracer Technologies, Inc. Electrochemical dehalogenation of organic compounds. 4,707,230, 11-17-87, Cl. 204-131.000.
- Ajamian, Hrant K. Annular cutting disc. 4,677,963, 7-7-87, Cl. 125-15.000.
- Ajax International Machinery & Metal Works A/S: *See—*
  - Jurgensen, Peter J.; and Dudder, Ulrich, 4,652,106, Cl. 354-325.000.
- Ajax Magnethermic Corporation: *See—*
  - Ross, Nicholas V., 4,694,134, Cl. 219-10.790.
- Ajay Enterprises Corporation: *See—*
  - Ogden, Ralph; and Johnson, Carl J., 4,635,928, Cl. 272-69.000.
- Ajima, Takashi: *See—*
  - Abe, Masahiro; Aoyama, Masaharu; Ajima, Takashi; and Yonezawa, Toshio, 4,636,832, Cl. 357-68.000.
- Ajinkya, Milind B.: *See—*
  - Storey, William R.; Wheat, William R.; Smith, Stuart B.; and Ajinkya, Milind B., 4,698,211, Cl. 422-135.000.
- Ajinomoto Co., Inc.: *See—*
  - Eguchi, Hajime; Kataoka, Jiro; and Takahashi, Masahiro, 4,699,793, Cl. 426-41.000.
  - Fukushima, Koji; Seto, Yoshiko; Kawada, Kazuhiro; Toi, Koji; and Kumashiro, Izumi, 4,714,713, Cl. 514-563.000.
  - Higuchi, Ryoichi; Sakurai, Takao; Mikami, Naoko; Akaiwa, Kiriko; and Takeuchi, Koji, 4,695,651, Cl. 560-141.000.
  - Hirai, Kiyomiki; Takeuchi, Koji; Sakamoto, Hiroshi; and Abe, Masahiro, 4,689,388, Cl. 528-104.000.
  - Hisamitsu, Kunio; Takemoto, Tadashi; and Yukawa, Toshihide, 4,673,744, Cl. 544-385.000.
  - Hisamitsu, Kunio; Takemoto, Tadashi; Hijiya, Toyoto; and Takahashi, Satoji, 4,680,403, Cl. 546-247.000.
  - Inokuchi, Hiroo; Saito, Gunji; Seki, Kazuhiko; and Mori, Takehiko, 4,691,028, Cl. 549-36.000.
  - Ishikuma, Mineyasu; Hasui, Hiroshi; and Ono, Toshiyuki, 4,708,881, Cl. 426-524.000.
  - Iwai, Kazuo, 4,680,313, Cl. 514-627.000.
  - Iwasaki, Keiji; Iwashita, Yuji; and Okami, Taketoshi, 4,670,417, Cl. 514-6.000.
  - Kanou, Hideo; Kamata, Masahiro; and Yamanaka, Shigeru, 4,675,289, Cl. 435-18.000.
  - Meguro, Kenjiro; Sagawa, Koichiro; Yokota, Hirofumi; and Takehara, Masahiro, 4,640,943, Cl. 523-200.000.
  - Miyashiro, Shigeyoshi; Kida, Takao; Shiio, Tsuyoshi; and Shibai, Hiroshiro, 4,642,335, Cl. 530-409.000.
  - Nakamura, Masao; Takeda, Hideo; Yukawa, Toshihide; and Kawasaki, Haruo, 4,670,568, Cl. 549-253.000.
  - Onuki, Takashi; Naora, Hirokazu; and Nakamura, Asao, 4,658,055, Cl. 562-503.000.
  - Sakakibara, Shumpei, 4,670,540, Cl. 530-324.000.
  - Sasaki, Hitoshi; and Igota, Shoji, 4,642,252, Cl. 428-35.000.
  - Sasaki, Hitoshi; and Igota, Shoji, 4,684,553, Cl. 428-35.000.
  - Shinohara, Emiko; Sugiyama, Katsumi; Ozaki, Masanao; and Matsuda, Keizo, 4,634,790, Cl. 560-40.000.
  - Takemoto, Tadashi; and Ariyoshi, Yasuo, 4,684,745, Cl. 560-41.000.
  - Tanaka, Kiyoshi; Koga, Yoshihiro; Saeki, Masaru; Kaneko, Tetsuya; and Kawakita, Tetsuya, 4,663,048, Cl. 210-638.000.
  - Tanaka, Kiyoshi; Saeki, Masaru; Matsuishi, Tsutomu; Koga, Yoshihiro; and Kawakita, Tetsuya, 4,714,767, Cl. 548-344.000.
  - Toba, Shigeru; Yoshida, Hirono; and Tokita, Takehiko, 4,676,976, Cl. 424-485.000.
  - Tosa, Takafumi; Koga, Yoshihiro; and Matsuishi, Tsutomu, 4,691,054, Cl. 562-554.000.
  - Toyoshi, Seiji; Yoshizumi, Tomoya; Saeki, Masaru; and Kawakita, Tetsuya, 4,711,722, Cl. 210-638.000.
  - Toyoshima, Shigeshi; Seto, Yoshiko; Fukushima, Koji; and Kumashiro, Izumi, 4,650,785, Cl. 514-3.000.
  - Toyoshima, Shigeshi; Seto, Yoshiko; Fukushima, Koji; and Kumashiro, Izumi, 4,670,584, Cl. 562-449.000.
  - Tsuchida, Takayasu; Otsuka, Noboru; and Sonoda, Hiroshi, 4,656,135, Cl. 435-116.000.
  - Yasunami, Masabumi; Takase, Kahei; Shinji, Akira; Mimura, Toru; Torii, Kunio; Kobayashi, Takaaki; Okutsu, Masaru; and Meguro, Takashi, 4,656,194, Cl. 514-693.000.
  - Yokozeki, Kenzo; and Kubota, Koji, 4,650,759, Cl. 435-128.000.
  - Yokozeki, Kenzo; Majima, Eiji; Hirose, Yoshiteru; Sato, Takeru; and Yukawa, Toshihide, 4,666,838, Cl. 435-70.000.
  - Yokozeki, Kenzo; and Kubota, Koji, 4,711,846. Cl. 435-70.000.
- Ajinomoto General Foods, Inc.: *See—*
  - Matsuda, Osamu; and Danno, Sadaji, 4,673,580, Cl. 426-385.000.
  - Okabe, Ryuichiro; and Yanagi, Yoshitaka, 4,697,503, Cl. 99-306.000.
- Ajioka, Syohei; and Tanaka, Toshio, to Nippon Kayaku Kabushiki Kaisha. Method for dyeing of natural leathers using reactive dyes. 4,634,448, 1-6-87, Cl. 8-436.000.
- Ajiro, Yutaka, to Tomy Kogyo Co., Inc. Magnetically coupled toy. 4,650,438, 3-17-87, Cl. 446-136.000.
- Ajmera, Prakash R.: *See—*
  - Jabarin, Saleh A.; and Ajmera, Prakash R., 4,713,269, Cl. 428-35.000.
  - Jabarin, Saleh A.; and Ajmera, Prakash R., 4,713,270, Cl. 428-35.000.
- Akab of Sweden AB: *See—*
  - Ragnebring, Chris, 4,648,336, Cl. 112-147.000.
- Akabane, Jun; and Suyama, Hitoshi, to Nippon Kogaku K. K. Operating members for a camera. 4,707,101, 11-17-87, Cl. 354-289.100.
- Akabane, Masashi, to NEC Corporation. Sound-multiplexed TV signal demodulator having electrically independent stereo and SAP demodulation means. 4,644,580, 2-17-87, Cl. 381-4.000.
- Akabane, Toshiaki; and Satoh, Arimasa, to Shinnenryoyu Kaihatsugijutsu Kenkyukumiai. Process for producing anhydrous ethanol. 4,645,569, 2-24-87, Cl. 203-19.000.
- Akabane, Toshiaki: *See—*
  - Inoi, Takeshi; Akabane, Toshiaki; Kurokawa, Yasuhiro; and Matsuoka, Shingo, 4,642,287, Cl. 435-99.000.
- Akachi, Yoshiaki; and Matsumaru, Takeo, to TDK Corporation. Coil apparatus with divided windings. 4,635,019, 1-6-87, Cl. 336-180.000.
- Akada, Masanori: *See—*
  - Kutsukake, Masaki; Akada, Masanori; and Yamauchi, Mineo, 4,650,494, Cl. 8-471.000.
- Akada, Yasuaki; Ishikawa, Norio; Egawa, Takeshi; and Taniguchi, Nobuyuki, to Minolta Camera Kabushiki Kaisha. Automatic focus control camera. 4,671,640, 6-9-87, Cl. 354-402.000.
- Akademie der Deutschen Demokratischen Republik: *See—*
  - Zschocke, Christian, 4,673,050, Cl. 180-9.100.
- Akademie der Wissenschaften der DDR: *See—*
  - Ballschuh, Detlef; Seibt, Horst; Rusche, Jochen; and Ohme, Roland, 4,687,602, Cl. 260-501.120.
  - Henklein, Peter; Becker, Manfred; Buttner, Werner; Loth, Fritz; Dautzenberg, Horts; Forner, Klaus; Dolling, Rudolf; Graul,

Karl-Heinz; Halatsch, Wolf-Rainer; and Rupprich, Christian, 4,714,768, Cl. 548-435.000.
  Hunger, Hans-Dieter; and Coutelle, Charles, 4,716,103, Cl. 435-5.000.
Akademiet for de Tekniske Videnskaber, Svejsecentralen: *See—*
  Lund, Svend, 4,679,448, Cl. 73-866.500.
Akado, Hajime: *See—*
  Taki, Yoshihiro; Akado, Hajime; Funae, Keizo; and Inukai, Satoshi, 4,640,779, Cl. 210-493.500.
Akae, Yoshifumi: *See—*
  Morishita, Akira; Akae, Yoshifumi; Okamoto, Kyoichi; Nakagawa, Taiichi; Morikane, Hiroyuki; Kounou, Tadami; Arima, Takemi; and Hasegawa, Akinori, 4,680,979, Cl. 74-7.00E.
Akae, Yoshiteru: *See—*
  Kitamura, Yoichi; Togo, Yoshiro; and Akae, Yoshiteru, 4,652,715, Cl. 219-64.000.
Akaeda, Tadayoshi; Yamamoto, Yuko; and Kanaoka, Katsuki, to Kabushiki Kaisha Toshiba. Deployable antenna reflector apparatus. 4,646,102, 2-24-87, Cl. 343-915.000.
Akagawa, Masaki: *See—*
  Kachi, Kenjiro; Onda, Hideaki; Hayashi, Yukichi; Yoshihara, Kenzo; Watabe, Masayuki; Akagawa, Masaki; and Mori, Yoshikazu, 4,658,125, Cl. 235-449.000.
  Kobayashi, Osamu; Akagawa, Masaki; and Hayashi, Hiroshi, 4,678,072, Cl. 194-206.000.
  Kobayashi, Osamu; Akagawa, Masaki; Tanaka, Masanori; Ishii, Jun; and Yamagishi, Ryoji, 4,706,202, Cl. 364-479.000.
Akagawa, Tomohiko: *See—*
  Morita, Hideyo; Akagawa, Tomohiko; and Kita, Yasuo, 4,694,031, Cl. 523-203.000.
Akagi, Katsuhiko: *See—*
  Karasaki, Toshihiko; Ueda, Hiroshi; Shintani, Michihiro; and Akagi, Katsuhiko, 4,662,735, Cl. 354-406.000.
Akagi, Motonobu, to Aisin Seiki Kabushiki Kaisha. Electric exhaust gas recirculation valve. 4,674,464, 6-23-87, Cl. 123-571.000.
Akagi, Toshimichi: *See—*
  Tadokoro, Tomoo; Okimoto, Haruo; and Akagi, Toshimichi, 4,702,219, Cl. 123-559.000.
Akagiri, Kenzo; and Nishiguchi, Masayuki, to Sony Corporation. Apparatus for transmitting digital signals. 4,685,115, 8-4-87, Cl. 375-25.000.
Akahane, Atsushi: *See—*
  Ueda, Ikuo; Shiokawa, Youichi; Kato, Masayuki; Konishi, Nobukiyo; and Akahane, Atsushi, 4,686,227, Cl. 514-292.000.
Akahane, Kenji: *See—*
  Iizuka, Kinji; Kamijo, Tetsuhide; Kubota, Tetsuhiro; Akahane, Kenji; Umeyama, Hideaki; and Kiso, Yoshiaki, 4,656,269, Cl. 544-139.000.
  Iizuka, Kinji; Kamijo, Tetsuhide; Kubota, Tetsuhiro; Akahane, Kenji; Umeyama, Hideaki; and Kiso, Yoshiaki, 4,711,958, Cl. 544-139.000.
Akahane, Shoji: *See—*
  Kawahara, Haruyuki; Takeda, Shoji; Oshima, Hiroshi; Tomioka, Kentaro; Akahane, Shoji; Yoshii, Eiichi; and Hirota, Kazuo, 4,647,600, Cl. 523-116.000.
  Kawahara, Haruyuki; Takeda, Shoji; Oshima, Hiroshi; Tomioka, Kentaro; Akahane, Shoji; Yoshii, Eiichi; and Hirota, Kazuo, 4,652,593, Cl. 523-116.000.
  Kondo, Kenji; Katsuyama, Shigeru; Akahane, Shoji; and Tomioka, Kentaro, 4,678,436, Cl. 433-228.100.
Akahori, Ichiro: *See—*
  Shiozaki, Makoto; and Akahori, Ichiro, 4,708,111, Cl. 123-357.000.
Akahori, Ken-ichi: *See—*
  Ito, Syoichi; and Akahori, Ken-ichi, 4,642,622, Cl. 340-724.000.
Akahori, Masaaki; and Watanabe, Hiroshi, to Nippon Electric Co., Ltd.; and Nippon Telegraph & Telephone Public Corporation. Pager receiver comprising a message detector energized only at pertinent time slots. 4,668,940, 5-26-87, Cl. 340-825.470.
Akahori, Masaaki: *See—*
  Ichikawa, Yoshio; Akahori, Masaaki; Ishii, Daisuke; Tsunoda, Kazuyuki; Minami, Yohichiro; and Nagata, Koichi, 4,639,726, Cl. 340-825.440.
Akahoshi, Haruo; Murakami, Kanji; Wajima, Motoyo; Kogawa, Kiyonori; Toba, Ritsuji; and Shimazaki, Takeshi, to Hitachi, Ltd. Method of bonding copper and resin. 4,642,161, 2-10-87, Cl. 156-630.000.
Akai Electric Co., Ltd.: *See—*
  Shiozaki, Yoshihiko, 4,696,306, Cl. 128-711.000.
Akai, Hiroshi: *See—*
  Imaizumi, Masahiro; Akai, Hiroshi; Irie, Takafumi; and Inagaki, Takashi, 4,646,865, Cl. 180-73.100.
Akai, Shinichi: *See—*
  Matsumoto, Kazuhisa; Morishita, Hiroshi; Akai, Shinichi; and Miyazawa, Shintaro, 4,645,560, Cl. 156-607.000.
Akai, Takashi; Okamoto, Katsuro; and Usui, Shiro, to NEC Corporation. Digital signal processing apparatus. 4,701,874, 10-20-87, Cl. 364-724.000.
Akai, Takayuki; and Yamaguchi, Junichi, to International Business Machines Corporation. Image processing apparatus with reduced handling and storage. 4,706,205, 11-10-87, Cl. 364-518.000.
Akai, Toshio, to Sharp Kabushiki Kaisha. Sealing element for injection hole. 4,645,306, 2-24-87, Cl. 350-355.000.
Akai, Toshio: *See—*
  Hamaguchi, Toshiaki; Namikawa, Kazuhira; Nakamura, Mutsuaki; Kuroda, Akio; and Akai, Toshio, 4,646,284, Cl. 369-276.000.
Akai, Yoshimi, to Kabushiki Kaisha Toshiba. Radiation detector ha high efficiency in conversion of absorbed X-rays into light. 4,694, 9-15-87, Cl. 250-368.000.
Akaike, Junichi: *See—*
  Sato, Masatoshi; and Akaike, Junichi, 4,667,786, Cl. 192-17.00
  Satoh, Masatoshi; and Akaike, Junichi, 4,702,063, Cl. 56-202.0
Akaiwa, Kiriko: *See—*
  Higuchi, Ryoichi; Sakurai, Takao; Mikami, Naoko; Akai Kiriko; and Takeuchi, Koji, 4,695,651, Cl. 560-141.000.
Akaiwa, Yoshihiko, to NEC Corporation. Demodulator for digital signals. 4,651,107, 3-17-87, Cl. 329-50.000.
Akaiwa, Yoshihiko, to NEC Corporation. Voice scrambler using quency-inversion and band-splitting technique. 4,652,699, 3-24-87, 380-31.000.
Akaiwa, Yoshihiko, to NEC Corporation. Cordless telephone syste 4,661,970, 4-28-87, Cl. 379-61.000.
Akama, Masato: *See—*
  Ehara, Shunji; Nakamura, Shuji; and Akama, Masato, 4,687,832, 528-97.000.
Akama, Yasuyuki; Musa, Ikuo; and Taketoshi, Kouichi, to Mitsubis Denki Kabushiki Kaisha. Automotive navigation system. 4,677,56 6-30-87, Cl. 364-449.000.
Akamatsu, Hideo: *See—*
  Kumashiro, Kenji; Iijima, Toshifumi; Akamatsu, Hideo; and Ma suzaka, Syoji, 4,692,400, Cl. 430-553.000.
Akamatsu, Keisuke: *See—*
  Nara, Toshio; Hobo, Sumiya; Kashiwada, Masao; Totsuk Motoyuki; Hoshiai, Takao; Umetani, Katsutoshi; Akamats Keisuke; Inada, Tomohide; and Takayama, Hisao, 4,639,220, C 433-69.000.
Akamatsu, Naruhiko: *See—*
  Maeda, Hirofumi; and Akamatsu, Naruhiko, 4,682,989, C 55-23.000.
Akamatsu, Osamu, to Nippon Air Brake Co., Ltd. Ball-type stop cock having standard matching flanges. 4,708,158, 11-24-87, C 137-315.000.
Akami, Ichio: *See—*
  Kogure, Tsuneo; Tsuchiyama, Yuji; Amano, Tadashi; Takahash Hideaki; Sekita, Katsuji; and Akami, Ichio, 4,656,862, C 72-443.000.
  Kogure, Tsuneo; Tsuchiyama, Yuji; Amano, Tadashi; Takahash Hideaki; Sekita, Katsuji; and Akami, Ichio, 4,672,831, C 72-21.000.
Akanabe, Yuichi: *See—*
  Funaki, Shinsuke; Akanabe, Yuichi; and Ikeda, Hiroaki, 4,710,779 Cl. 346-1.100.
Akao, Michitoshi: *See—*
  Sakakibara, Kenji; Akao, Michitoshi; Hayashi, Shigeyuki, and Sakai, Jun, 4,714,943, Cl. 355-27.000.
Akao, Mutsuo, to Fuji Photo Film Co., Ltd. Container for photographic film cartridge. 4,639,386, 1-27-87, Cl. 428-35.000.
Akao, Mutsuo, to Fuji Photo-Film Co., Ltd. Packaging materials for photosensitive materials and process for producing same. 4,653,640, 3-31-87, Cl. 206-455.000.
Akao, Mutsuo, to Fuji Photo Film Co., Ltd. Packaging material for photosensitive materials for photographic purpose. 4,661,395, 4-28-87, Cl. 428-213.000.
Akao, Mutsuo, to Fuji Photo Film Co., Ltd. Laminated films. 4,661,401, 4-28-87, Cl. 428-215.000.
Akao, Mutsuo, to Fuji Photo Film Co., Ltd. Packaging film for photosensitive materials for photographic purpose. 4,663,218, 5-5-87, Cl. 428-212.000.
Akao, Mutsuo, to Fuji Photo Film Co., Ltd. Packaging material for photosensitive materials. 4,687,692, 8-18-87, Cl. 428-137.000.
Akao, Mutsuo, to Fuji Photo Film Co., Ltd. Packaging material for photosensitive materials. 4,701,359, 10-20-87, Cl. 428-35.000.
Akao, Mutsuo, to Fuji Photo Film Co., Ltd. Easily openable packaging material for photographic photosensitive materials. 4,708,896 11-24-87, Cl. 428-35.000.
Akao, Takeshi; and Furukawa, Toshio, to Kikkoman Corporation Method for processing by heating and equipment for same. 4,709,487, 12-1-87, Cl. 34-10.000.
Akaoka, Kenkichi: *See—*
  Okamura, Masatoshi; Shiba, Haruo; and Akaoka, Kenkichi 4,663,689, Cl. 360-132.000.
Akasaka, Hideya: *See—*
  Hirota, Yuichi; Kodama, Toshikatsu; Akasaka, Hideya; and Takeuchi, Yasuhito, 4,674,516, Cl. 128-660.000.
Akasaka, Shinichi: *See—*
  Oka, Hiroyuki; Akasaka, Shinichi; Ohara, Shuichi; Hattori, Shintaroo; Mori, Yasuki; Narahara, Toshikazu; and Matsumoto Hiroshi, 4,690,858, Cl. 428-216.000.
Akasaka, Tamotsu; Tomiuchi, Shinichi; Seto, Kazuo; Matsui, Kenichi and Sawada, Yasushi, to Matsushita Electric Works, Ltd. Method of producing hardened inorganic products. 4,673,543, 6-16-87, Cl 264-82.000.
Akasaki, Hidehiko; and Tsujimura, Takehisa, to Fujitsu Limited. Semiconductor device including leadless packages and a base plate for mounting the leadless packages. 4,682,207, 7-21-87, Cl. 357-74.000.
Akasaki, Hidehiko; and Miyasaka, Kiyoshi, to Fujitsu Limited. Modular semiconductor device. 4,689,658, 8-25-87, Cl. 357-80.000.
Akasaki, Hidehiko: *See—*
  Kojima, Haruo; and Akasaki, Hidehiko, 4,710,250, Cl. 156-89.000.
Akashah, Saed-el-Deen; Lahalih, Shawqui; and Al-Hajjar, Farouk, to Kuwait Institute for Scientific Research. Degradable agricultural plastic articles, e.g., mulching film, comprising slowly released mul-

tinutrients in matrix of thermoplastic, and process for preparing same. 4,686,790, 8-18-87, Cl. 47-9.000.

- Akashi, Akira; and Suzuki, Kenji, to Canon Kabushiki Kaisha. Solid-state imaging device. 4,676,623, 6-30-87, Cl. 354-408.000.
- Akashi, Akira; Ohmura, Hiroshi; Ishizaki, Akira; Ohtaka, Keiji; and Suda, Yasuo, to Canon Kabushiki Kaisha. Focus state detection method and apparatus with selective statistical processing. 4,716,282, 12-29-87, Cl. 250-201.000.
- Akashi, Akira: *See—*
  - Ishizaki, Akira; Akashi, Akira; Ohtaka, Keiji; Suda, Yasuo; and Hiramatsu, Akira, 4,643,557, Cl. 354-406.000.
  - Kobayashi, Ryuichi; Akashi, Akira; and Kawamura, Masaharu, 4,636,056, Cl. 354-484.000.
  - Ohtaka, Keiji; Akashi, Akira; Ishizaki, Akira; Suda, Yasuo; and Hiramatsu, Akira, 4,670,645, Cl. 250-201.000.
  - Ohtaka, Keiji; Hiramatsu, Akira; Suda, Yasuo; Akashi, Akira; and Ishizaki, Akira, 4,698,492, Cl. 250-201.000.
  - Suda, Yasuo; Ishizaki, Akira; Ohtaka, Keiji; Akashi, Akira; and Hiramatsu, Akira, 4,634,255, Cl. 354-406.000.
  - Suda, Yasuo; Ohmura, Hiroshi; Ishizaki, Akira; Akashi, Akira; and Ohtaka, Keiji, 4,688,920, Cl. 354-406.000.
  - Suda, Yasuo; Akashi, Akira; and Hiramatsu, Akira, 4,709,138, Cl. 250-201.000.
  - Yamamoto, Hiroshi; and Akashi, Akira, 4,705,380, Cl. 354-402.000.
- Akashi, Akiru: *See—*
  - Taniguchi, Shinichi; Akashi, Akiru; and Ujii, Yasuo, 4,669,847, Cl. 354-298.000.
- Akashi, Goro: *See—*
  - Asai, Takamitsu; Akashi, Goro; Kitamoto, Tatsuji; Chikamasa, Hiroshi; and Sato, Tsunehiko, 4,678,682, Cl. 427-48.000.
  - Kitamoto, Tatsuji; and Akashi, Goro, 4,666,773, Cl. 428-332.000.
  - Suzuki, Masaki, deceased; and Akashi, Goro, 4,636,898, Cl. 360-122.000.
- Akashi Hiroyuki; Inoue, Takeshi; and Horie, Shoichi, to Yoshitomi Pharmaceutical Industries, Ltd. Alkanedicarboxylic diester compounds. 4,713,474, 12-15-87, Cl. 560-66.000.
- Akashi, Kichizo: *See—*
  - Konishi, Yozo; Akashi, Kichizo; Watase, Hideo; and Yoshioka, Tatsuo, 4,641,271, Cl. 364-478.000.
  - Tenma, Tadashi; Akashi, Kichizo; Konishi, Yozo; and Watase, Hideo, 4,692,876, Cl. 364-513.000.
- Akashi Seisakusho Ltd.: *See—*
  - Suzuki, Shigeru, 4,710,633, Cl. 250-442.100.
- Akashi, Syunji; and Yuuki, Kenji, to Yoshida Kogyo K. K. Slide fastener with a pair of intermeshable top ends stops. 4,667,377, 5-26-87, Cl. 24-436.000.
- Akashi, Tamotsu; and Sawaoka, Akira, to New Mexico Tech Research Foundation. Dynamic compaction of composite materials containing diamond. 4,695,321, 9-22-87, Cl. 75-243.000.
- kashi, Tatsu: *See—*
  - Wakamiya, Sukeyoshi; Takeuchi, Naokazu; Hama, Yoshihisa; Akashi, Tatsu; and Shimura, Tatsuo, 4,666,394, Cl. 425-342.100.
- kashi, Teruo: *See—*
  - Itoh, Hiroshi; Akashi, Teruo; and Takada, Mitsuru, 4,653,353, Cl. 74-868.000.
- kashi, Tomotsu; and Sawaoka, Akira. High density compacts. 4,655,830, 4-7-87, Cl. 75-233.000.
- kashi, Toshihiro: *See—*
  - Shiratsuchi, Masami; Kawamura, Kiyoshi; Akashi, Toshihiro; Ishihama, Hiroshi; and Uchida, Yasumi, 4,678,803, Cl. 514-456.000.
- kasu, Hiroyuki: *See—*
  - Morioka, Tohru; Terasaki, Hidenori; Akasu, Hiroyuki; Nakano, Akiyoshi; and Takase, Kohichi, 4,650,457, Cl. 604-4.000.
- kasu, Masahira, to Mitsubishi Denki Kabushiki Kaisha. Ignition timing control apparatus for engine. 4,633,835, 1-6-87, Cl. 123-425.000.
- katsu, Makoto; and Hori, Keiichi, to Mitsubishi Jukogyo Kabushiki Kaisha. Booster type high-pressure vessel. 4,690,618, 9-1-87, Cl. 417-226.000.
- katsu, Masahiro: *See—*
  - Okada, Yoshio; Akatsu, Masahiro; and Ohira, Yohichi, 4,714,495, Cl. 106-21.000.
- katsu, Tatsuo: *See—*
  - Takezawa, Yoshio; and Akatsu, Tatsuo, 4,690,969, Cl. 524-413.000.
- atsu, Toshio: *See—*
  - Mori, Sadao; and Akatsu, Toshio, 4,708,481, Cl. 356-358.000.
  - Shibata, Nobuo; Hirai, Akira; Nakajima, Jun; Mori, Kenji; and Akatsu, Toshio, 4,667,082, Cl. 219-124.340.
  - Udagawa, Tsugio; Akatsu, Toshio; and Hamada, Yasunori, 4,667,997, Cl. 294-86.400.
- atsu, Yohsuke: *See—*
  - Yamaguchi, Hirotsugu; Fukushima, Naoto; Akatsu, Yohsuke; and Hano, Sunao, 4,702,490, Cl. 280-707.000.
- tsu, Yousuke; Yamaguchi, Hirotsugu; Fukushima, Naoto; Hano, unao; Sugino, Masaru; Takehara, Shin; and Matsui, Shinichi, to issan Motor Co., Ltd. Suspension system. 4,693,491, 9-15-87, Cl. 0-688.000.
- tsuka, Mitsuo: *See—*
  - Nakagawa, Hisato; Kuwahara, Hideo; Koyama, Atsuo; and Akatsuka, Mitsuo, 4,694,224, Cl. 315-177.000.
- suka, Takao: *See—*
  - Kobayashi, Nobuyuki; Ito, Toshimitsu; Akatsuka, Takao; and Ninomiya, Masakazu, 4,651,700, Cl. 123-489.000.
  - Nakano, Jiro; Ishibashi, Takao; Akatsuka, Takao; and Takata, Mamoru, 4,655,182, Cl. 123-440.000.
  - Nakano, Jiro; Ishibashi, Takao; Akatsuka, Takao; and Kawaguchi Masao, 4,694,809, Cl. 123-489.000.
- Akazawa, Hideo: *See—*
  - Ueda, Toshitsugu; Kohsaka, Fusao; Yamazaki, Daisuke; and Akazawa, Hideo, 4,680,970, Cl. 73-702.000.
- Akazawa, Hozumi; and Muto, Kentaro, to Chojoha Giken Kabushiki Kaisha. Edible oil cleaner. 4,643,824, 2-17-87, Cl. 210-167.000.
- Akazawa, Kiyoshi: *See—*
  - Sasaki, Makoto; Yoshida, Jun; Shimizu, Yoshishige; Akazawa, Kiyoshi; Kishita, Eiji; and Hirata, Kaoru, 4,713,291, Cl. 428-373.000.
- Akazawa, Michitada: *See—*
  - Ito, Akinori; Akazawa, Michitada; and Kondo, Shiro, 4,702,307, Cl. 165-42.000.
- Akazawa, Naoki; Nishi, Kazuhiko; Kawakami, Naoya; Fujisawa, Yoshiaki; and Yamada, Noriyoshi, to Sawafuji Electric Co., Ltd. System for controlling compressor operation. 4,706,470, 11-17-87, Cl. 62-209.000.
- Akazawa, Toshiyuki; Tanaka, Yoshinari; and Okaya, Takuji, to Kuraray Co., Ltd. Laminate structure and production of the same. 4,640,870, 2-3-87, Cl. 428-483.000.
- Akazawa, Yoji: *See—*
  - Nakanishi, Yoshiyuki; Akazawa, Yoji; Kurimoto, Ikuo; Takahashi, Youjirou; Uchida, Shinichi; and Yoshikawa, Hisashi, 4,665,200, Cl. 549-239.000.
- Akcasu, Osman E., to Harris Corporation. Subcollector for oxide and junction isolated IC's. 4,644,383, 2-17-87, Cl. 357-50.000.
- Akebono Brake Industry Co., Ltd.: *See—*
  - Maehara, Toshifumi; and Kurata, Masayuki, 4,640,391, Cl. 188-353.000.
  - Maehara, Toshifumi, 4,691,969, Cl. 303-113.000.
  - Maehara, Toshifumi, 4,708,407, Cl. 303-116.000.
  - Matsuda, Osamu; and Sasajima, Isao, 4,668,850, Cl. 219-10.570.
  - Matsuzaki, Mikio, 4,691,810, Cl. 188-73.100.
  - Miyake, Katsuya, 4,652,060, Cl. 303-96.000.
  - Ogino, Kinji, 4,705,093, Cl. 164-97.000.
  - Tsugawa, Kazuo; and Wada, Susuma, 4,705,817, Cl. 523-152.000.
- Akebono Research and Development Centre Ltd.: *See—*
  - Ogino, Kinji, 4,705,093, Cl. 164-97.000.
  - Tsugawa, Kazuo; and Wada, Susuma, 4,705,817, Cl. 523-152.000.
- Akechi, Kiyoaki: *See—*
  - Odani, Yusuke; Akechi, Kiyoaki; and Kuroishi, Nobuhito, 4,702,885, Cl. 419-23.000.
- Akeda, Yasuhiro: *See—*
  - Ogata, Hajime; Nakakouji, Hisatada; Akeda, Yasuhiro; Ichida, Toshio; Irie, Toshio; and Otsuka, Sachiko, 4,687,713, Cl. 428-628.000.
- Akeel, Hadi A., to GMF Robotics Corporation. Robot-laser system. 4,638,143, 1-20-87, Cl. 215-121.0LQ.
- Akeel, Hadi A., to GMF Robotics Corporation. Robot-laser system. 4,650,952, 3-17-87, Cl. 219-121.0LQ.
- Akeel, Hadi A., to GMF Robotics Corporation. Robot with counterbalance mechanism having multiple attachment locations. 4,653,975, 3-31-87, Cl. 414-720.000.
- Akeel, Hadi A.; and Poynter, William H., to GMF Robotics Corporation. Robot with improved cable routing and clamping. 4,659,279, 4-21-87, Cl. 414-680.000.
- Akeel, Hadi A., to GMF Robotics Corporation. Robot with balancing mechanism having a variable counterbalance force. 4,659,280, 4-21-87, Cl. 414-720.000.
- Akeel, Hadi A., to GMF Robotics Corporation. Mechanical wrist mechanism. 4,708,580, 11-24-87, Cl. 414-735.000.
- Akeel, Hadi A.: *See—*
  - Janashak, Robert J.; Felice, Christopher G.; and Akeel, Hadi A., 4,708,175, Cl. 141-1.000.
- Akegi, Seiji, to Ube Industries, Ltd. Method for measuring volume and apparatus therefor. 4,708,016, 11-24-87, Cl. 73-149.000.
- Akegi, Seiji: *See—*
  - Kobayashi, Waichi; Akegi, Seiji; and Iwata, Kazuhiro, 4,701,222, Cl. 106-288.00B.
- Akerberg, Dag E., to Telefonaktiebolaget LM Ericsson. Equipment for wireless telephone transmission. 4,682,350, 7-21-87, Cl. 379-61.000.
- Akerberg, Dag E., to Telefonaktiebolaget LM Ericsson. Method of setting radio transmitters for synchronous radio transmission. 4,709,401, 11-24-87, Cl. 455-51.000.
- Akerberg, Dag E., to Telefonaktiebolaget LM Ericsson. Method of synchronizing radio transmitters for synchronous radio transmission. 4,709,402, 11-24-87, Cl. 455-51.000.
- Akerberg, Magnus W. Fishing device. 4,682,437, 7-28-87, Cl. 43-19.000.
- Akerblom, Bengt O.: *See—*
  - Kjellqvist, Olof G.; Akerblom, Bengt O.; and Sjobom, Axel H., 4,673,875, Cl. 324-207.000.
- Akerlund, Mats P.; and Stromback, Ture J., to U.S. Philips Corporation. Stray pulse eliminating device. 4,638,301, 1-20-87, Cl. 340-347.0CC.
- Akerman, Moshe; and Saly, Amnon, to Israel Aircraft Industries, Ltd. Landing pad and hangar structure for vertical take-off and landing aircraft. 4,665,857, 5-19-87, Cl. 114-261.000.
- Akers, Alvin: *See—*
  - McMillan, Stephen L.; Akers, Alvin; and Toma, Daniel N., 4,637,231, Cl. 68-4.000.
- Akers, Clifford B.: *See—*
  - Carroll, Thomas D.; and Akers, Clifford B., 4,686,592, Cl. 360-97.000.

Akers, Francis I.: *See—*

White, John S.; Vaughan, A. Dahlgren; and Akers, Francis I., 4,682,850, Cl. 350-96.230.

Akers, Paul J.: *See—*

Chambers, Pauline B.; Bedder, Stephen W.; and Akers, Paul J., 4,680,335, Cl. 524-501.000.

Akesaka, Toshio, to Kabushiki Kaisha Iseki Kaihatsu Koki. Pipe propelling device. 4,662,606, 5-5-87, Cl. 254-29.00R.

Akesaka, Toshio, to Kabushiki Kaisha Iseki Kaihatsu Koki. Earth auger. 4,691,787, 9-8-87, Cl. 173-145.000.

Akesaka, Toshio, to Kabushiki Kaisha Iseki Kaihatsu Koki. Shield type tunneling machine. 4,692,062, 9-8-87, Cl. 405-141.000.

Akesson, Bengt A.: *See—*

Bergman, Sten G. A.; Sagefors, K. Ivar; and Akesson, Bengt A., 4,652,181, Cl. 405-128.000.

Bergman, Sten G. A.; Sagefors, K. Ivar; and Akesson, Bengt A., 4,708,522, Cl. 405-55.000.

Akesson, Yngve R., to Nestec S.A. Continuous mixing process. 4,687,674, 8-18-87, Cl. 426-549.000.

Aketa, Masahiro: *See—*

Sakano, Kenji; Aketa, Masahiro; Ikeshima, Tetsuro; Hataura, Kiyoshi; Sakanaka, Hiroo; and Yamashita, Masahiro, 4,703,729, Cl. 123-308.000.

AKG Akustische u. Kino-Gerate GmbH: *See—*

Hartmann, Hans; and Kerschbaum, Ewald, 4,640,382, Cl. 181-175.000.

Akhtar, Masud, to Chronar Corp. Conductive tin oxide methods. 4,705,701, 11-10-87, Cl. 427-110.000.

Akhter, Lalarukh; Atkinson, Ronald E.; Wages, Dwight E.; and Beyer, Harold H., to Procter & Gamble Company, The. Liquid cleansing composition. 4,678,606, 7-7-87, Cl. 252-542.000.

Akhurst, Raymond J.: *See—*

Rhodes, Stuart H.; Lyons, Graham R.; Gregson, Richard P.; Akhurst, Raymond J.; and Lacey, Michael J., 4,672,130, Cl. 348-453.000.

Aki, Osami: *See—*

Ochiai, Michihiko; Okada, Taiiti; Aki, Osami; Morimoto, Akira; Kawakita, Kenji; and Matsushita, Yoshihiro, 4,668,783, Cl. 540-222.000.

Akiba, Kouji: *See—*

Arai, Yoshio; Kitajima, Akira; and Akiba, Kouji, 4,706,760, Cl. 169-61.000.

Akiba, Masaru: *See—*

Yamamoto, Shigeru; and Akiba, Masaru, 4,693,029, Cl. 43-22.000.

Akiba, Seiji: *See—*

Ito, Masanori; Akiba, Seiji; and Ishikawa, Hiroyasu, 4,675,999, Cl. 30-124.000.

Akiba, Shigeyuki; Utaka, Katsuyuki; Sakai, Kazuo; and Matsushima, Yuichi, to Kokusai Denshim Denwa Kabushiki Kaisha. Distributed feedback semiconductor laser. 4,648,096, 3-3-87, Cl. 372-96.000.

Akiba, Shigeyuki; Utaka, Katsuyuki; Sakai, Kazuo; and Matsushima, Yuichi, to Kokusai Denshin Denwa Kabushiki Kaisha. Distributed feedback semiconductor laser with monitor. 4,653,058, 3-24-87, Cl. 372-50.000.

Akiba, Shigeyuki; Utaka, Katsuyuki; Sakai, Kazuo; and Matsushima, Yuichi, to Kokusai Denshin Denwa Kabushiki Kaisha. Distributed feedback semiconductor laser. 4,653,059, 3-24-87, Cl. 372-50.000.

Akiba, Shigeyuki; Utaka, Katsuyuki; Sakai, Kazuo; and Matsushima, Yuichi, to Kokusai Denshin Denwa Kabushiki Kaisha. Method for manufacturing diffraction grating. 4,660,934, 4-28-87, Cl. 350-320.000.

Akiba, Shigeyuki; Utaka, Katsuyuki; Sakai, Kazuo; and Matsushima, Yuichi, to Kokusai Denshin Denwa Kabushiki Kaisha. Distributed feedback semiconductor laser. 4,665,527, 5-12-87, Cl. 372-96.000.

Akiba, Shigeyuki; Utaka, Katsuyuki; Sakai, Kazuo; and Matsushima, Yuichi, to Kokusai Denshin Denwa Kabushiki Kaisha. Distributed feedback semiconductor laser. 4,701,930, 10-20-87, Cl. 372-96.000.

Akiba, Shigeyuki: *See—*

Sakai, Kazuo; Matsushima, Yuichi; Akiba, Shigeyuki; and Utaka, Katsuyuki, 4,682,196, Cl. 357-30.000.

Akiba, Taichi: *See—*

Araki, Yoshitsugu; and Akiba, Taichi, 4,637,004, Cl. 369-44.000.

Akiba, Takehiko, to Nippon Kokan Kabushiki Kaisha. Method and apparatus for mooring a ship in frigid weather conditions. 4,649,850, 3-17-87, Cl. 114-230.000.

Akiba, Uichi: *See—*

Enari, Hiroyuki; Konai, Yutaka; Akiba, Uichi; and Ito, Masayo, 4,668,815, Cl. 560-55.000.

Akiba, Yasuhiro; Namba, Masato; Kikuchi, Seiji; and Soejima, Hidenobu, to Matsushita Electric Industrial Co., Ltd. Stepping motor. 4,714,850, 12-22-87, Cl. 310-49.00R.

Akiba, Yuichi: *See—*

Shoji, Toru; Sugiyama, Mitsuru; Takezawa, Makoto; Akiba, Yuichi; Kaneko, Akira; and Sato, Mituo, 4,673,596, Cl. 427-262.000.

Akiba, Yukio, to Sony Corporation. Method for producing a phosphor screen of a cathode ray tube. 4,670,296, 6-2-87, Cl. 427-68.000.

Akiba, Yutaka; and Hirota, Kazuo, to Hitachi, Ltd. Magnetic bubble memory unit. 4,663,737, 5-5-87, Cl. 365-2.000.

Akiba, Yutaka; Hirota, Kazuo; Kishiro, Nobuo; Futami, Toshio; and Hamamoto, Tatsuo, to Hitachi, Ltd. Magnetic bubble memory module. 4,694,423, 9-15-87, Cl. 365-2.000.

Akihama, Shigeyuki; Saito, Makoto; Kawamoto, Akio; Banno, Tadashi; Umeki, Yoshihiko; and Nakamura, Takumi, to Kajima Kensetsu Kabushiki Kaisha. Concrete panel having tile driven. 4,700,518, 10-20-87, Cl. 52-309.160.

Akiike, Katsumi; Ichikawa, Haruo; Izumi, Kanichi; and Onodera Tadayoshi, to Fuji Electric Co., Ltd. Thermal type overload relay 4,670,728, 6-2-87, Cl. 337-49.000.

Akiike, Katsumi: *See—*

Ichikawa, Haruo; Chida, Fumio; Akiike, Katsumi; and Izumi, Kanichi, 4,642,598, Cl. 337-82.000.

Akima, Michitaka: *See—*

Koga, Hiroshi; Mori, Takashi; Dan, Takashi; and Akima, Michitaka, 4,661,607, Cl. 549-383.000.

Akimoto, Akira: *See—*

Matsui, Kiyohide; Kikuchi, Yoshiyuki; Hiyama, Tamejiro; Tobita, Etsuko; Kondo, Kiyosi; Akimoto, Akira; Seita, Toru; and Watanabe, Hiroyuki, 4,659,744, Cl. 521-32.000.

Toyoda, Takashi; Akimoto, Akira; Yamanaka, Masaaki; and Kobayasi, Yonetarou, 4,663,216, Cl. 428-212.000.

Akimoto, Hiroshi: *See—*

Nishimura, Susumu; Nomura, Hiroaki; and Akimoto, Hiroshi, 4,650,868, Cl. 544-280.000.

Akimoto, Koji: *See—*

Kojo, Hidehiko; and Akimoto, Koji, 4,657,947, Cl. 523-455.000.

Kojo, Hidehiko; and Akimoto, Koji, 4,657,953, Cl. 523-435.000.

Kojo, Hidehiko; Akimoto, Koji; and Urihara, Kazuhiro, 4,702,962, Cl. 428-418.000.

Akimoto, Taizo; and Nagai, Asaki, to Fuji Photo Film Co., Ltd.; and Ikegami Tsushinki Co., Ltd. Scanning line position control system for shifting the position of scanning lines to improve photographic reproduction quality. 4,701,800, 10-20-87, Cl. 358-244.000.

Akimoto, Taizo; and Kawai, Masahiko, to Fuji Photo Film Co., Ltd.; and Ikegami Tsushinki Co., Ltd. Automatic frequency pulling circuit. 4,709,268, 11-24-87, Cl. 358-150.000.

Akimoto, Taizo: *See—*

Endo, Azuchi; and Akimoto, Taizo, 4,707,739, Cl. 358-139.000.

Seki, Takatoshi; Akimoto, Taizo; Ookawa, Norio; and Torisawa, Nobuyuki, 4,664,506, Cl. 355-20.000.

Akimoto, Takashi; Kai, Akio; Kobayashi, Masao; and Itoh, Haruo, to Teikoku Tsushin Kogyo Co., Ltd. Sliding-type dip switch. 4,658,101, 4-14-87, Cl. 200-16.00R.

Akinaga, Norimasa, to Sharp Kabushiki Kaisha. Washing machine. 4,653,294, 3-31-87, Cl. 68-12.00R.

Akinbinu, Dayo M. Surface projectile game apparatus. 4,647,044, 3-3-87, Cl. 273-125.00R.

Akio, Ohno, to Canon Kabushiki Kaisha. Image forming apparatus having movable developing means and means for removing developer therefrom. 4,707,108, 11-17-87, Cl. 355-4.000.

Akira, Matsuura: *See—*

Ryohei, Yamamoto; Shigeki, Kimura; and Akira, Matsuura, 4,692,330, Cl. 424-85.000.

Akira, Noda: *See—*

Kenji, Yabusaki; Hitoshi, Tozawa; Akira, Noda; and Takashi, Ito, 4,708,477, Cl. 356-222.000.

Akita, Eiichi: *See—*

Inouye, Shigeharu; Koyama, Masao; Miyauchi, Keinosuke; Tsuruoka, Takashi; Kai, Fumio; Matsumoto, Kuniomi; Niida, Taro; and Akita, Eiichi, 4,647,572, Cl. 514-381.000.

Akita, Hidehiko: *See—*

Hirose, Tadashi; Sakoda, Kousuke; Kojima, Tomihiko; Akita, Hidehiko; and Miyairi, Tsutomu, 4,665,478, Cl. 364-200.000.

Sakoda, Kousuke; Kainaga, Masahiro; Akita, Hidehiko; Murata, Fumiya; and Nakaosa, Yoshitake, 4,692,896, Cl. 364-900.000.

Akita, Kenji, to Sharp Kabushiki Kaisha. Deodorizing device for oil stove. 4,639,211, 1-27-87, Cl. 431-20.000.

Akita, Kenji; and Aiga, Junji, to Sharp Kabushiki Kaisha. Deodorizing device for oil stove. 4,688,546, 8-25-87, Cl. 126-96.000.

Akita, Kenji, to Sharp Kabushiki Kaisha. Deodorizing device for oil stove. 4,704,085, 11-3-87, Cl. 431-20.000.

Akita, Shigeyuki; and Kago, Yoshiyuki, to Nippon Soken, Inc. Zigzag running warning system for automotive vehicles. 4,673,913, 6-16-87, Cl. 340-52.00R.

Akita, Shigeyuki, to Nippon Soken, Inc. Photo-electric conversion device with dark current compensation. 4,714,827, 12-22-87, Cl. 250-214.00C.

Akita, Shigeyuki: *See—*

Kitamura, Sotoo; Akita, Shigeyuki; and Kago, Yoshiyuki, 4,684,943, Cl. 340-825.720.

Matsumoto, Muneaki; Akita, Shigeyuki; and Kuno, Akira, 4,661,718, Cl. 307-10.00R.

Tanaka, Hiroaki; and Akita, Shigeyuki, 4,638,249, Cl. 324-166.000.

Akita, Shinji: *See—*

Kanda, Noboru; Yokoyama, Kenzou; Aoki, Ken-ichi; Akita, Shinji; Hatanaka, Masayuki; and Oda, Tatsuharu, 4,711,733, Cl. 252-29.000.

Akita, Shuichi: *See—*

Aonuma, Mitsuyoshi; Watanabe, Hiroyuki; Kawada, Haruki; Noguchi, Kohkichi; Ueda, Akio; Akita, Shuichi; Ohyama, Tetsuo; and Kase, Toshio, 4,647,625, Cl. 528-232.000.

Kikuchi, Yasushi; Kayama, Kazuyoski; Tokieda, Akinori; Watanabe, Hiroyuki; and Akita, Shuichi, 4,677,165, Cl. 525-332.900.

Akita, Yoshio: *See—*

Sada, Takeshi; Kato, Hidetoshi; Shibata, Hiroshi; Mori, Kazumasa; Mayumi, Nobuo; Sato, Hirohide; Akita, Yoshio; and Tanaka, Shigeru, 4,665,354, Cl. 320-64.000.

Akiya, Masahiro, to Nippon Telegraph and Telephone Public Corporation. MIS variable resistor. 4,665,423, 5-12-87, Cl. 357-23.100.

Akiya, Takashi; Toganoh, Shigeo; and Arai, Ryuichi, to Canon Kabushiki Kaisha. Recording method. 4,636,410, 1-13-87, Cl. 427-261.000.

- **Akiyama, Haruhiko**: *See—*
  - Fukasawa, Atsushi; Sato, Takuro; Akiyama, Haruhiko; and Kawabe, Manabu, 4,701,923, Cl. 371-41.000.
- **Akiyama, Hideki; and Imai, Shigeru**, to Yoshida Kogyo K. K. Method and apparatus for forming element-free spaces in slide fastener chains. 4,638,542, 1-27-87, Cl. 29-408.000.
- **Akiyama, Hideo**: *See—*
  - Ui, Masahito; Akiyama, Hideo; Todokoro, Akio; Natsui, Yukio; Kogure, Hiroshi; Kato, Yujiro; and Ozaki, Tsuneo, 4,667,400, Cl. 29-825.000.
  - Ui, Masahito; Akiyama, Hideo; Todokoro, Akio; Natsui, Yukio; Kogure, Hiroshi; Kato, Yujiro; and Ozaki, Tsuneo, 4,686,328, Cl. 174-153.00R.
- **Akiyama, Hirosi**: *See—*
  - Hanazono, Masanobu; Hara, Shinichi; Akiyama, Hirosi; Hayashi, Masaaki; Saitoo, Harunobu; and Kurisu, Takumi, 4,685,014, Cl. 360-126.000.
  - Okamura, Hisanori; Akiyama, Hirosi; Kamoshita, Mutuo; and Miyazaki, Kunio, 4,636,434, Cl. 428-328.000.
  - Okamura, Hisanori; Miyazaki, Kunio; Akiyama, Hirosi; Itoh, Shinichi; Yasuda, Tomio; Nakamura, Kousuke; Okoshi, Yukio; Kamoshita, Mutuo; and Chiba, Akio, 4,690,793, Cl. 376-136.000.
- **Akiyama, Hiroyuki; Izawa, Susumu; and Kuwabara, Hideki**, to Japan Styrene Paper Corporation. Foamable ethylene-propylene random copolymer columnar particles. 4,692,507, 9-8-87, Cl. 528-481.000.
- **Akiyama, Hiroyuki; Izawa, Susumu; Okabe, Shigeru; and Yamaguchi, Toru**, to Japan Styrene Paper Corp. Heat treatment apparatus for polyolefin resin particles. 4,716,021, 12-29-87, Cl. 422-135.000.
- **Akiyama, Ikuo**, to NEC Corporation. Solid-state imaging device compatible with different television systems. 4,706,122, 11-10-87, Cl. 358-213.130.
- **Akiyama, James K.; Freysing, Klaus D.; and Young, Richard A.**, to Sigmaform Corporation. Article having heat expandable sealing member. 4,647,716, 3-3-87, Cl. 174-77.00R.
- **Akiyama, Junichi; Chiba, Shu; Sawazaki, Norikazu; and Yatabe, Shigeru**, to Kabushiki Kaisha Toshiba. Magnetic reproducing apparatus. 4,677,512, 6-30-87, Cl. 360-110.000.
- **Akiyama, Katsuhiko**: *See—*
  - Wakabayashi, Noboru; Akiyama, Katsuhiko; Soda, Yutaka; and Uchida, Hiroyuki, 4,642,716, Cl. 360-104.000.
- **Akiyama, Kazuhisa**: *See—*
  - Yasuda, Akira; Akiyama, Kazuhisa; Nakao, Toshinari; and Yuasa, Hiroyoshi, 4,703,347, Cl. 358-102.000.
- **Akiyama, Kazunori; Tsunoda, Arihiro; and Tanaka, Satoshi**, to Mita Industrial Co., Ltd. Sheet material conveying device. 4,678,178, 7-7-87, Cl. 271-242.000.
- **Akiyama, Kazunori**: *See—*
  - Iida, Kazumi; Ohata, Yosuke; Hyodo, Keiichiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, 4,636,057, Cl. 355-3.00R.
  - Iida, Kazumi; Ohata, Yosuke; Hyodo, Keiichiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, 4,666,283, Cl. 355-3.0DD.
  - Iida, Kazumi; Ohata, Yosuke; Hyodo, Keiichiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, 4,666,285, Cl. 355-8.000.
  - Iida, Kazumi; Ohata, Yosuke; Hyodo, Keiichiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, 4,714,338, Cl. 355-3.0FU.
- **Akiyama, Kazutoshi: and Ono, Takashi**, to Orient Chemical Industries, Ltd. Coloring composition. 4,649,174, 3-10-87, Cl. 524-841.000.
- **Akiyama, Kazutoshi; Ono, Takashi; and Yagyu, Tatsuya**, to Orient Chemical Industries, Ltd. Aqueous ink composition. 4,666,519, 5-19-87, Cl. 106-22.000.
- **Akiyama, Masashi; and Tagashira, Yasuo**, to Kusakabe Electric & Machinery Co. Ltd. Apparatus for continuously producing steel pipes including using rotable beds of tools for different size pipe. 4,709,845, 12-1-87, Cl. 228-17.000.
- **Akiyama, Naoki; Kitamura, Kenichi; and Kotake, Eiichi**, to Victor Company of Japan, Ltd. Tachogenerator having a magnetoresistance stator coil. 4,656,377, 4-7-87, Cl. 310-68.00R.
- **Akiyama, Noboru**: *See—*
  - Nakajima, Takayuki; Aoki, Tetsuo; Kobayashi, Katsumi; and Akiyama, Noboru, 4,696,004, Cl. 371-25.000.
  - Nakajima, Takayuki; Aoki, Tetsuo; Kobayashi, Katsumi; and Akiyama, Noboru, 4,701,918, Cl. 371-20.000.
- **Akiyama, Nobuyuki**: *See—*
  - Kuni, Asahiro; Yamaguchi, Kazuo; Akiyama, Nobuyuki; and Endo, Juro, 4,647,196, Cl. 356-237.000.
- **Akiyama, Osamu**, to Shimadzu Corporation. Monochromator. 4,697,924, 10-6-87, Cl. 356-333.000.
- **Akiyama, Seikichi**: *See—*
  - Ishii, Mitsuru; Akiyama, Seikichi; and Ishibashi, Hiroyuki, 4,687,683, Cl. 427-160.000
- **Akiyama, Setsuo; Fukuura, Yukio; Yoshikawa, Masato; Matsuda, Takeyuki; Monobe, Hisanobu; Ohkubo, Shigeki; and Yoshida, Shiro**, to Bridgestone Corporation. Tubular rubber products. 4,657,285, 4-14-87, Cl. 285-256.000.
- **Akiyama, Shigeaki**: *See—*
  - Makino, Kenzi; Akiyama, Shigeaki; Fukuda, Kenzow; and Sakata, Gozyo, 4,665,212, Cl. 560-61.000.
- **Akiyama, Shigeo; and Satou, Shigeji**, to Kurashiki Boseki Kabushiki Kaisha. Apparatus for blowing a thread end off of a full cheese formed by an open-end spinning and winding machine. 4,705,224, 11-10-87, Cl. 242-35.60E.
- **Akiyama, Shigeru; Ueno, Hidetoshi; Imagawa, Koji; Kitahara, Akira; Nagata, Sumio; Morimoto, Kazuo; Nishikawa, Tooru; and Itoh, Masao**, to Agency of Industrial Science and Technology; and Shinko Kosen Kogyo Kabushiki Kaisha. Foamed metal and method of producing same. 4,713,277, 12-15-87, Cl. 428-131.000.
- **Akiyama, Shun-ichi**: *See—*
  - Miyagawa, Kenichiro; Doi, Muneharu; and Akiyama, Shun-ichi, 4,701,413, Cl. 435-88.000
- **Akiyama, Steven R.; Zaker, Ronald C.; and Shoup, Curtis C.**, to Cooper Industries, Inc. Spring loaded recessed lighting fixture thermal protection. 4,685,037, 8-4-87, Cl. 362-276.000.
- **Akiyama, Susumu; Ito, Katsunori; Yamada, Toshitaka; Mizuno, Tiaki; and Kinugawa, Masumi**, to Nippondenco Co., Ltd. Heat-wire type air flow measurement apparatus. 4,669,306, 6-2-87, Cl. 73-204.000.
- **Akiyama, Susumu; Ito, Katsunori; Hirabayashi, Yuzi; Kinugawa, Masumi; and Omori, Norio**, to Nippondenso Co., Ltd. Engine control apparatus. 4,671,242, 6-9-87, Cl. 123-486.000.
- **Akiyama, Susumu**: *See—*
  - Abe, Tomoaki; Fujisawa, Hideya; Omori, Norio; Kinugawa, Masumi; Ito, Katsunori; Akiyama, Susumu; Mizuno, Tiaki; and Yamada, Toshitaka, 4,713,765, Cl. 364-431.050.
  - Ina, Katsuhiro; Sato, Yoshihisa; Kinugawa, Masumi; Suzuki, Atsushi; Ito, Katsunori; Akiyama, Susumu; Mizuno, Tiaki; Yamada, Toshitaka; and Abe, Tomoaki, 4,665,745, Cl. 73-204.000.
  - Sato, Yoshihisa; Kinugawa, Masumi; Akiyama, Susumu; Yamada, Toshitaka; Mizuno, Tiaki; Suzuki, Atsushi; and Sugiura, Kengo, 4,680,964, Cl. 73-204.000.
  - Sato, Yoshihisa; Kinugawa, Masumi; Akiyama, Susumu; Yamada, Toshitaka; Mizuno, Tiaki; and Suzuki, Atsushi, 4,683,858, Cl. 123-486.000.
- **Akiyama, Tadahiko; and Otsuka, Yoshio**, to Nippo Communication Industrial Co., Ltd. Personal-signaling communication system. 4,680,785, 7-14-87, Cl. 379-57.000.
- **Akiyama, Tadashi**: *See—*
  - Tsujimoto, Yoshiharu; Kinashi, Hiroshi; Yui, Yuhi; Akiyama, Tadashi; and Irihara, Koichi, 4,654,286, Cl. 430-97.000.
- **Akiyama, Takashi; Hotta, Yasunari; and Oda, Naonobu**, to Toyo Boseki Kabushiki Kaisha. Magnetic recording medium. 4,701,372, 10-20-87, Cl. 428-323.000.
- **Akiyama, Takashi**: *See—*
  - Kamiishi, Yukio; Ushioda, Hideo; and Akiyama, Takashi, 4,675,181, Cl. 424-72.000.
- **Akiyama, Takehiro**: *See—*
  - Suzuki, Hirokazu; Akiyama, Takehiro; Morita, Teruo; Takeda, Hirofumi; and Masunaga, Hikotaro, 4,645,958, Cl. 307-597.000.
- **Akiyama, Tatsuo**: *See—*
  - Koshino, Yutaka; Akiyama, Tatsuo; and Baba, Yoshiro, 4,710,794, Cl. 357-49.000.
  - Shimada, Kizashi; Akiyama, Tatsuo; and Koshino, Yutaka, 4,700,455, Cl. 437-39.000.
- **Akiyama, Teruo; Sasaki, Katsuyuki; and Saigo, Takaichi**, to Kabushiki Kaisha Komatsu Seisakusho. Torque regulating system for fluid operated pump displacement control systems. 4,637,781, 1-20-87, Cl. 417-216.000.
- **Akiyama, Tetsuo; and Arita, Saiji**, to Chugai Ro Co., Ltd. Combustion burner. 4,657,504, 4-14-87, Cl. 431-166.000.
- **Akiyama, Tetsuo**: *See—*
  - Okano, Takashi; and Akiyama, Tetsuo, 4,677,602, Cl. 369-32.000.
- **Akiyama, Tomojiro**: *See—*
  - Oonaka, Hidemi; Baika, Toyokazu; Shibata, Yoshiaki; Horii, Kingo; Sato, Yasushi; and Akiyama, Tomojiro, 4,656,992, Cl. 123-559.000.
- **Akiyama, Toru**, to Pioneer Electronic Corporation. Apparatus for the color synchronization of reproduced video signals. 4,688,103, 8-18-87, Cl. 358-326.000.
- **Akiyama, Toru**: *See—*
  - Toyonaga, Kenji; Higashitsutsumi, Yoshihito; Yanai, Akihiro; and Akiyama, Toru, 4,667,338, Cl. 377-45.000.
- **Akiyama, Toshiyuki; Koike, Norio; Ito, Kenji; Ogino, Takeshi; and Nagahara, Shuusaku**, to Hitachi, Ltd. Solid state imaging device and method with row-by-row charge transfer. 4,675,887, 6-23-87, Cl. 377-58.000.
- **Akiyama, Toshiyuki**: *See—*
  - Koike, Norio; Nakai, Masaaki; Ando, Haruhisa; Ozaki, Toshifumi; Ohba, Shinya; Ono, Hideyuki; and Akiyama, Toshiyuki, 4,689,687, Cl. 358-213.240.
  - Ozawa, Naoki; Akiyama, Toshiyuki; Satoh, Kazuhiro; Nagahara, Syusaku; and Mimura, Itaru, 4,716,455, Cl. 358-44.000.
- **Akiyama, Tsutomu; and Kobayashi, Toshiyuki**, to Mitsuba Electric Manufacturing Co., Ltd. Motor with integral bracket brush holder. 4,673,836, 6-16-87, Cl. 310-239.000.
- **Akiyama, Yoshie**: *See—*
  - Hirosawa, Toshiaki; Akiyama, Yoshie; Ebisawa, Isao; Hattori, Yoshifumi; and Abe, Tsutomu, 4,684,962, Cl. 346-140.00R.
- **Akiyama, Yoshinori**: *See—*
  - Ishigami, Yukio; Akiyama, Yoshinori; and Terasawa, Haruhumi, 4,655,501, Cl. 297-113.000.
- **Akiyama, Yosinori**: *See—*
  - Nara, Akio; Yazawa, Akio; and Akiyama, Yosinori, 4,651,702, Cl. 123-549.000.
- **Akiyoshi, Eiichi**: *See—*
  - Kanto, Masaharu; Akiyoshi, Eiichi; and Ohtake, Yasuhisa, 4,708,680, Cl. 445-47.000.
- **Akiyoshi, Mitsuo; Hirai, Kazumi; Mitsumoto, Yoshio; and Hori, Ichiroh**, to Matsushita Electric Industrial Co., Ltd. Heat cooking apparatus having a flat flexible heater. 4,675,507, 6-23-87, Cl. 219-406.000.

- Akiyoshi, Mitsuo: *See—*
  - Hirai, Kazumi; Akiyoshi, Mitsuo; Nakano, Chikao; Watanabe, Kenji; and Kodama, Satoru, 4,673,800, Cl. 219-518.000.
- Akiyoshi, Yutaka: *See—*
  - Kakimi, Fujio; Matsukawa, Hiroharu; Akiyoshi, Yutaka; and Kobayashi, Shinzo, 4,650,769, Cl. 436-533.000.
- Akkapeddi, Prasad R.; and Hufnagel, Robert E., to Perkin-Elmer Corporation, The. Contact lithographic fabrication of patterns on large optics. 4,668,083, 5-26-87, Cl. 355-100.000.
- Akkerman, Neil H.; and Hare, John P., to AVA International Corporation. Kickover tool. 4,640,350, 2-3-87, Cl. 166-117.500.
- Akkerman, Neil H., to AVA International Corporation. Well apparatus. 4,641,707, 2-10-87, Cl. 166-116.000.
- Akkerman, Neil H.; and Vazquez, Gonzalo, to AVA International Corporation. Fail safe gate valves and actuators therefor. 4,691,893, 9-8-87, Cl. 251-14.000.
- Aklufi, Monti E., to United States of America, Navy. Single crystal thin films. 4,707,217, 11-17-87, Cl. 156-617.00R.
- Akoh, Tetsuo: *See—*
  - Towatari, Yoshishige; and Akoh, Tetsuo, 4,668,925, Cl. 333-219.000.
- Akopov, Ernest M.; Schitinin, Valery E.; and Arapova, Anna V. Surgical instrument. 4,684,051, 8-4-87, Cl. 227-19.000.
- Akoshima, Shigeru: *See—*
  - Hayashi, Motomu; Nagai, Masayuki; and Akoshima, Shigeru, 4,640,066, Cl. 52-208.000.
- Akpinar, Belkis K.: *See—*
  - Vogel, Gerald J.; Kearney, Donald T.; Akpinar, Belkis K.; and Moorman, Charles T., 4,707,368, Cl. 426-386.000.
- Akre, Collin A., to Northern Telecom Limited. Apparatus for assembling optical fibers onto a support filament. 4,706,449, 11-17-87, Cl. 57-6.000.
- Akred, Brian J.; Messenger, Edward T.; and Nicholson, William J., to Albright & Wilson Limited. Liquid detergent compositions. 4,659,497, 4-21-87, Cl. 252-135.000.
- Aksay, Ilhan A.: *See—*
  - Pyzik, Aleksander J.; and Aksay, Ilhan A., 4,702,770, Cl. 75-236.000.
- Aksman, Igor B., to Reichhold Chemicals, Inc. Opaque binder system. 4,683,269, 7-28-87, Cl. 525-258.000.
- Aktiebolaget Bofors: *See—*
  - Bolinder, Boo; and Schmid, Hermann, 4,654,093, Cl. 149-3.000.
  - Dahlberg, Kurt, 4,712,181, Cl. 364-423.000.
  - Eklund, Fritz, 4,658,630, Cl. 73-1.00J.
  - Franzen, Arne; Albrektsson, Kjell; and Fixell, Jan-Olov, 4,655,411, Cl. 244-3.110.
  - Hellner, Lars; Haglund, Ingemar; Ronn, Torsten; and Albrektsson, Kjell, 4,644,867, Cl. 102-495.000.
  - Melhus, Ulf; Olsson, Mats; Bjorkqvist, Nils-Gunnar; Bjorn, Lars-Erik; and Taylor, Dennis, 4,688,465, Cl. 86-20.140.
  - Svensson, Hakan, 4,646,616, Cl. 89-36.140.
  - Svensson, Leif; Nyqvist, Jan-Olof; and Westling, Lars, 4,638,065, Cl. 544-196.000.
  - Westerlund, Borje; and Vestring, Arne, 4,648,319, Cl. 102-202.120.
  - Winblad, Nils, 4,693,182, Cl. 102-476.000.
- Aktiebolaget Draco: *See—*
  - Andersson, Jan A. R.; Moren, Nils F. E.; Wetterlin, Kjell I. L.; Snellman Wasenius, Kaija A.; and Virtanen, Risto, 4,641,644, Cl. 128-200.230.
  - Axelsson, Bengt I.; Brattsand, Ralph L.; Dahlback, Carl M. O.; Kallstrom, Leif A.; and Trofast, Jan W., 4,693,999, Cl. 514-174.000.
  - Kjellin, Per G.; and Persson, Carl G. A., 4,644,001, Cl. 514-263.000.
  - Virtanen, Risto, 4,668,218, Cl. 604-58.000.
  - Wetterlin, Kjell I. L., 4,667,668, Cl. 128-203.150.
- Aktiebolaget Frotator: *See—*
  - Eriksson, Erik F., 4,655,406, Cl. 241-261.000.
- Aktiebolaget Hassle: *See—*
  - Ankner, Kjell F.; Brandstrom, Arne E.; Lindberg, Per L.; Nordberg, Mats P.; and Wallmark, Bjorn M. G., 4,689,331, Cl. 514-338.000.
  - Berglund, Bengt G.; Falk, Karl-Erik L.; Magnusson, Dan A.; Nilson, Nils B.; and Nilsson, Ake S., 4,695,272, Cl. 604-84.000.
  - Brandstrom, Arne E.; Lindberg, Per L.; and Wallmark, Bjorn, 4,636,499, Cl. 514-222.000.
  - Gustafsson, Bill B. R.; Hedberg, Sven A.; and Lundgren, Bo T., 4,636,501, Cl. 514-235.000.
  - Szelke, Michael; and Jones, David M., 4,638,047, Cl. 530-332.000.
  - Szelke, Michael; Jones, David M.; and Hallett, Allan, 4,650,661, Cl. 424-9.000.
  - Szelke, Michael; Jones, David M.; and Hallett, Allan, 4,713,445, Cl. 530-330.000.
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  - Holmberg, Erne L.; and Andersson, Torbjorn C., 4,694,995, Cl. 241-92.000.
- Aktiebolaget IRO: *See—*
  - Tholander, Lars H. G.; and Kerff, Anton P., 4,676,442, Cl. 242-47.010.
- Aktiebolaget Leo: *See—*
  - Lilja, Jan E.; and Nilsson, Sven E. L., 4,654,197, Cl. 422-56.000.
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  - Andersson, Stig G., 4,700,640, Cl. 111-1.000.
- Aktiebolaget SKF: *See—*
  - Hallerback, Stig, 4,669,894, Cl. 384-477.000.
  - Hallerback, Stig L., 4,677,725, Cl. 29-280.000.
  - Kellstrom, Magnus, 4,705,411, Cl. 384-450.000.
  - Sahlgren, Anders; Gustafsson, Rolf; Goransson, Bo; and Sundqvist, Yngve, 4,684,268, Cl. 384-574.000.
- Aktiebolaget Somas Ventiler: *See—*
  - Hubertson, Folke H., 4,634,097, Cl. 251-173.000.
- Aktiebologet Bofors: *See—*
  - Carlsson, Bengt, 4,690,057, Cl. 102-266.000.
- Aktiengesellschaft Adolph Saurer: *See—*
  - Thalmann, Theo; and Oesterle, Gerhard, 4,690,176, Cl. 139-110.000.
- Aktiengesellschaft Brown, Boveri & Cie: *See—*
  - Jahnke, Bernd, 4,678,635, Cl. 420-449.000.
- Aktiengesellschaft Kuhnle, Kopp & Kausch: *See—*
  - Pfeil, Horst, 4,657,480, Cl. 415-147.000.
- Aktieselskabet Bruel & Kajaer: *See—*
  - Frederiksen, Erling, 4,715,219, Cl. 73-1.0DV.
- Aktieselskabet de Danske Sukkerfabrikker: *See—*
  - Buchbjerg, Ernst; and Madsen, Rud F., 4,677,065, Cl. 435-68.000.
  - Madsen, Rud F.; Nielsen, Werner K.; and Johnsen, Aksel F., 4,666,603, Cl. 210-321.100.
- Aktieselskabet Laur.Knudsen Nordisk Elektricitets Selskab: *See—*
  - Leth-Olson, Henrik; and Marot, Lajos K. D., 4,695,691, Cl. 200-303.000.
- Aktieselskabet Thomas Ths. Sabroe & Co.: *See—*
  - Nyrup, Torsten, 4,700,551, Cl. 62-346.000.
- Akui, Nobuaki; Ueda, Yasuhiro; and Suzuki, Akira, to Olympus Optical Co., Ltd. Endoscope forceps stopcock. 4,653,477, 3-31-87, Cl. 128-4.000.
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- Akushichi, Shuki: *See—*
  - Ishizaki, Naoki; Nunotani, Sadao; Tada, Tatsumi; Uehara, Kazuo; and Akushichi, Shuki, 4,646,622, Cl. 91-446.000.
- Akutagawa, Hitoshi, to Mazda Motor Corporation. Belt-pulley type steplessly variable transmission having a reverse drive gear mechanism. 4,673,377, 6-16-87, Cl. 474-1.000.
- Akutagawa, Susumu: *See—*
  - Okano, Tamon; Kumobayashi, Hidenori; Akutagawa, Susumu; Kiji, Jitsuo; Konishi, Hisatoshi; Fukuyama, Keiichi; and Shimano, Yasunobu, 4,705,895, Cl. 564-15.000.
  - Otsuka, Seinosuke; Tani, Kazuhide; Yamagata, Tsuneaki; Akutagawa, Susumu; Kumobayashi, Hidenori; and Yagi, Misao, 4,695,631, Cl. 544-170.000.
  - Yoshikawa, Sadao; Saburi, Masahiko; Ikariya, Takao; Ishii, Youichi; and Akutagawa, Susumu, 4,691,037, Cl. 556-18.000.
- Akutagawa, Wesley M.: *See—*
  - Wang, Taylor G.; Granett, Dan; and Akutagawa, Wesley M., 4,645,442, Cl. 425-6.000.
- Akutsu, Eiichi: *See—*
  - Murakami, Kakuji; Akutsu, Eiichi; and Aruga, Tamotsu, 4,680,235, Cl. 428-414.400.
- Akutsu, Mitsuo; and Kanai, Mitsuharu, to Adeka Argus Chemical Co., Ltd. 2,2,6,6-tetramethyl quaternary ammonium halides and synthetic resin and stabilizer compositions. 4,707,507, 11-17-87, Cl. 524-99.000.
- Akutsu, Mitsuru, to Tokyo Shibaura Denki Kabushiki Kaisha. Magnetic head pressure pad device. 4,638,392, 1-20-87, Cl. 360-130.320.
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  - Asai, Masahiro; Mizushima, Toshio; Kawai, Toshiro; Akutsu, Shigemitsu; and Uozumi, Yoshiaki, 4,706,617, Cl. 123-65.0PE.
- Akutsu, Shigeru: *See—*
  - Yasufuku, Yoshitaka; Nara, Masaji; and Akutsu, Shigeru, 4,652,496, Cl. 428-425.900.
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- Akutsu, Takao, to Japan Tobacco Inc. Process for measuring lamina size distribution. 4,661,985, 4-28-87, Cl. 382-8.000.
- Akutsu, Takao: *See—*
  - Ono, Takahiro; Akutsu, Takao; and Fujiwara, Hideyuki, 4,640,299, Cl. 131-303.000.
- Akutsu, Takashi, to Casio Computer Co., Ltd. Electronic musical instrument with autoplay function. 4,662,261, 5-5-87, Cl. 84-1.010.
- Akutsu, Yoshinori: *See—*
  - Nagai, Yoichiro; Watanabe, Hamao; and Akutsu, Yoshinori, 4,707,557, Cl. 556-430.000.
  - Nagai, Yoichiro; Watanabe, Hamao; and Akutsu, Yoshinori, 4,716,240, Cl. 556-430.000.
- Akva A/S: *See—*
  - Molaug, Ole; Havrevold, Sveinung B.; and Skjoveland, Odd, 4,708,090, Cl. 119-51.00R.
- Akyurek, Altan: *See—*
  - Neidig, Arno; Akyurek, Altan; and Hettmann, Hubert, 4,670,771, Cl. 357-74.000.
- Akzo America Inc.: *See—*
  - Birum, Gail H.; and Jansen, Richard F., 4,713,489, Cl. 564-90.000.
  - Brady, Cathereine D.; Metcalfe, Lincoln D.; Slaboszewski, Dale R.; and Frank, Dieter, 4,678,580, Cl. 210-490.000.
  - Frisch, Kurt C.; Xiao, Hiong X.; and Anagnostou, Taki J., 4,677,029, Cl. 428-423.100.
- Akzo N.V.: *See—*
  - Atkin, John, 4,698,155, Cl. 210-321.600.
  - Baumgart, Rudolf; Martin, Manfred; Low, Lothar; and Scheven, Gunter, 4,681,720, Cl. 264-150.000.
  - Baurmeister, Ulrich; Brodowski, Walter; Diamantoglou, Michael; Dunweg, Gustav; Henne, Werner; Pelger, Michael; and Schulze, Helmut, 4,668,396, Cl. 210-500.290.
  - Beetz, Tom, 4,661,522, Cl. 514-632.000.

Behnke, Joachim; and Pitowski, Hans-Jurgen, 4,686,044, Cl. 210-500.220.

Budde, Frederik J., 4,683,337, Cl. 564-498.000.

Card, Benjamin D., 4,643,981, Cl. 436-500.000.

Deets, Gary L.; and Tamalis, William G., 4,684,708, Cl. 527-312.000.

Ebregt, Johan L.; and Maatman, Hendrik, 4,702,876, Cl. 264-184.000.

Guioth, Chantal H.; Maze, Etienne G.; and Rabajoie, Loick P., 4,710,281, Cl. 204-181.700.

Guioth, Chantal H.; Maze, Etienne G.; and Trescol, Jean J., 4,714,531, Cl. 204-181.700.

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Heeringa, Auke; Juffermans, Johannes P. H.; and Kaster, Bart, 4,677,028, Cl. 428-422.800.

Henne, Werner; and Pelger, Michael, 4,673,506, Cl. 210-636.000.

Hummelen, Jan C.; Meijer, Egbert W.; and Wynberg, Hans, 4,705,847, Cl. 530-350.000.

Jacobson, Walter; Riggio, Stephen C.; and Turner, James E., 4,711,852, Cl. 436-15.000.

Josefiak, Christoph; and Wechs, Friedrich, 4,666,607, Cl. 210-640.000.

Kelder, Jan; and Verheul, Hermanus A. M., 4,701,450, Cl. 514-177.000.

Klein, Wolfgang; and Schneider, Klaus, 4,659,473, Cl. 210-638.000.

Klugar, Karl; and Van Santvoort, Gerardus P. T. M., 4,679,731, Cl. 238-2.000.

Kundinger, Ernst F.; Klimesch, Erich; Zengel, Hans G.; and Lasher, Jeffrey D., 4,675,246, Cl. 428-336.000.

Kundinger, Ernst F.; Klimesch, Erich; Zengel, Hans-Georg; and Lasher, Jeffery D., 4,699,841, Cl. 428-332.000.

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Kuypers, Leonardus P. C.; and Wolters, Gerrit, 4,701,410, Cl. 435-7.000.

Kuypers, Leonardus P. C.; and Matthyssen, Ludovicus F. T., 4,701,421, Cl. 436-518.000.

Lange, Wolfgang, 4,645,664, Cl. 424-78.000.

Logan, Robert T.; Redpath, James; and Roy, Robert G., 4,705,782, Cl. 514-150.000.

Loozen, Hubert J. J.; and van Luit, Pieter J. N., 4,634,694, Cl. 514-177.000.

Maaskant, Nico; Bantjes, Adriaan; and Kempen, Hermanus J. M., 4,647,280, Cl. 604-5.000.

Meijer, John, 4,678,817, Cl. 523-144.000.

Meijer, John; Westmijze, Hans; and Boelema, Eltjo, 4,705,888, Cl. 560-302.000.

Neuhaus, Clemens; Lucks, Rudiger; Breidohr, Hans G.; and Wick, Gerhard, 4,649,991, Cl. 165-159.000.

Nollet, Andreas J. H.; Meijer, John; and Overkamp, Johannes W. A., 4,686,061, Cl. 252-95.000.

Pichant, Patrick, 4,701,382, Cl. 428-457.000.

Redpath, James, Logan, Robert T.; McFadzen, David B.; and Roy, Robert G., 4,665,206, Cl. 549-51.000.

Sengbusch, Gunter V., 4,702,841, Cl. 210-638.000.

Tilgner, Hans G.; and Schmitz, Franz J., 4,664,918, Cl. 426-14.000.

Timmerman, Hendrik; and Van der Goot, Henderikus, 4,694,000, Cl. 514-187.000.

van de Pol, Gustaaf M. W., 4,664,957, Cl. 428-35.000.

van Os, Willem A. A. A., 4,690,136, Cl. 128-130.000.

Vrouenraets, Cornelius M. F., 4,685,455, Cl. 128-156.000.

Weidenhaupt, Wolfgang; and Dismon, Peter, 4,679,387, Cl. 57-212.000.

Willemsen, Stephanus; Weening, Willem E.; and Steenbergen, Anne, 4,652,488, Cl. 428-224.000.

Zedler, Angelika A.; and Trescol, Jean J., 4,661,223, Cl. 204-181.700.

Zeilstra, Jacobus J.; and Brink, Ted, 4,687,835, Cl. 528-300.000.

Zengel, Hans; Eisenhuth, Ludwig; and Bergfeld, Manfred, 4,670,556, Cl. 544-135.000.

Akzona Incorporated: *See—*

Bailey, Bobby J., 4,699,627, Cl. 8-602.000.

Diamantoglou, Michael; Magerlein, Helmut; Brodowski, Walter; Grimm, Wolfgang; and Meyer, Gerhard, 4,708,985, Cl. 525-166.000.

Frank, Dieter; and Cho, Hee, 4,677,208, Cl. 548-215.000.

King, Charles L.; Mussro, Nicholas J., Jr.; and Roberts, Dennis W., 4,666,763, Cl. 428-221.000.

Kratzsch, Eberhard; Cygan, Wolfgang; and Kiss, Nandor, 4,692,365, Cl. 428-87.000.

Polak, Robert B.; and Hof, Craig R., 4,650,587, Cl. 210-638.000.

Stanley, Keith D.; and White, Kenneth B., 4,675,118, Cl. 252-8.800.

Wagener, Kenneth B., 4,652,396, Cl. 252-500.000.

AL-CHEM Fuels, Inc.: *See—*

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Al-Hajjar, Farouk: *See—*

Akashah, Saed-el-Deen; Lahalih, Shawqui; and Al-Hajjar, Farouk, 4,686,790, Cl. 47-9.000.

Al-Jaroudi, Mohammed Y., to International Business Machines Corporation. Vacuum impregnation of sintered materials with dry lubricant. 4,655,610, 4-7-87, Cl. 384-13.000.

Al-Khouly, Jaser O. Apparatus for checking the internal diameter of pipelines. 4,651,437, 3-24-87, Cl. 33-544.000.

Al-Saigh, Abbas, to Alberta Energy Company Ltd.; Canadian Occidental Petroleum Ltd.; Esso Resources Canada Limited; Gulf Canada Limited; Canada, Her Majesty the Queen in right of the Province of Alberta, as represented by the Minister of Energy and Natural Resources; HBOG-Oil Sands Limited Partnership; PanCanadian Petroleum Limited; and Petro-Canada Inc. Method for removing spent catalyst from a reactor tower and assembly for facilitating same. 4,642,223, 2-10-87, Cl. 422-191.000.

Al-Shaar, Adnan H.; Broughton, Barbara J.; Chambers, Robert K.; Gilmour, David W.; Kelsey, Diane M.; Lowden, Peter; Lunt, Edward; Lythgoe, David J.; McClenaghan, Ian; McDougall, Duncan C.; Saunders, Libert C.; Stuttle, Keith A. J.; and Warne, Peter J., to May & Baker Limited. Ethene derivatives. 4,659,727, 4-21-87, Cl. 514-370.000.

Al Sin Seiki Kabushiki Kaisha: *See—*

Hochstein, Peter A.; and Imai, Nobuyuki, 4,712,432, Cl. 73-862.360.

Al-Sioufi, Habib. Method and device for disinfecting biological fluids and container for same. 4,675,159, 6-23-87, Cl. 422-36.000.

Aladdin Engineering & Mfg: *See—*

Horn, Edward R.; and Kot, Norbert J., II. 4,679,782, Cl. 269-228.000.

Aladzhadzhyan, Samuel H.: *See—*

Chutjian, Ara; Orient, Otto J.; and Aladzhadzhyan, Samuel H., 4,649,278, Cl. 250-423.00R.

Alaimo, Robert J.; and Andersen, Jon A., to Norwich Eaton Pharmaceuticals, Inc. Imidazo(4,5-f)quinolines useful as immunomodulating agents. 4,716,168, 12-29-87, Cl. 514-293.000.

Alain, Dini: *See—*

Barlet, Denis; and Alain, Dini, 4,678,503, Cl. 71-93.000.

Alaki, Yasuhide; Ohtake, Masayuki; and Ihara, Keisuke, to Bridgestone Corporation. Golf ball. 4,681,323, 7-21-87, Cl. 273-232.000.

Alam, Aftab. Safety barrier. 4,685,247, 8-11-87, Cl. 49-55.000.

Alam, Mohammed K.: *See—*

Flagan, Richard C.; and Alam, Mohammed K., 4,642,227, Cl. 423-349.000.

Alandy, Jose M., to Vetco Gray Inc. Mudline casing hanger tieback adaptor with adjustable load ring. 4,653,589, 3-31-87, Cl. 166-382.000.

Alandy, Jose M., to Vetco Gray Inc. Lockdown connector for mudline wellhead tieback adaptor. 4,653,778, 3-31-87, Cl. 285-18.000.

Alanko, Allan M.; and Atwell, William H., to Dow Corning Corporation. Mixed binder systems for agglomerates. 4,659,374, 4-21-87, Cl. 75-3.000.

Alar Engineering Corporation: *See—*

White, Harold R.; and Doncer, Alex J., 4,681,682, Cl. 210-221.200.

Alard, Michel, to Etat Francais represente par le secretaire d'Etat Aux Postes et Telecommunications et a la Telediffusion (Centre National d'Etudes des Telecommunications); and Etablissement Public de Diffusion dit "Telediffusion de France". Sync extraction for a broadcasting system with time multiplexing of digital and analog signals. 4,707,730, 11-17-87, Cl. 358-13.000.

Alas, Jacques, to Valeo. Torsional damper device comprising two coaxial parts disposed to rotate relative to one another. 4,634,398, 1-6-87, Cl. 464-68.000.

Alas, Jacques; and Paolo, Rumignani, to Valeo. Starting and coupling member. 4,650,050, 3-17-87, Cl. 192-70.120.

Alas, Jacques; and Graton, Michel, to Valeo. Torsional damper device. 4,669,592, 6-2-87, Cl. 192-106.200.

Alas, Jacques; and Graton, Michel, to Valeo. Torsional damper device. 4,697,682, 10-6-87, Cl. 192-106.200.

Alas, Jacques; and Bacher, Michel, to Valeo. Progressively acting friction disk suitable for automobile vehicle clutches. 4,714,148, 12-22-87, Cl. 192-107.00C.

Alaska Canning & Marine Equipment, Inc.: *See—*

Gilkey, Lance R., 4,642,971, Cl. 53-435.000.

Alba, Andrew J.; Griesemer, James A.; and Gordon, Robert L., to International Paper Company. Self-supporting and spill resistant food carton. 4,711,389, 12-8-87, Cl. 229-1.50B.

Alba Health Care, division of Alba-Waldensian, Inc.: *See—*

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Alba, James: *See—*

Minard, Paul G.; Alba, James; and Pacyna, David A., 4,714,054, Cl. 122-483.000.

Albach, Eberhard R.: *See—*

Callies, Gerald A.; Albach, Eberhard R.; Conour, John F.; and Herrington, Richard A., 4,661,381, Cl. 427-255.000.

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Alban, Eugene P. Aircraft controls simulator. 4,713,007, 12-15-87, Cl. 434-45.000.

Albanese, Andres, to Bell Communications Research, Inc. Temperature stabilization of injection lasers. 4,683,573, 7-28-87, Cl. 372-34.000.

Albanese, Andres; and Cheng, Steven S., to Bell Communications Research, Inc. Distributed star network. 4,712,859, 12-15-87, Cl. 350-96.160.

Albanese, Damian F.; and Sayano, Kanji F., to ITT Gilfillan, a division of ITT Corporation. Radar ranging system. 4,704,613, 11-3-87, Cl. 342-458.000.

Albanese, Rocco J. Supplementary liquid dispensing device. 4,715,279, 12-29-87, Cl. 101-148.000.

Albanese, Thomas C. Apparatus for cutting out a face in a pumpkin. 4,689,885, 9-1-87, Cl. 30-316.000.

Albanesi, Giancarlo; and Rinaldi, Gianfranco, to Saffa S.p.A. Stabilized red phosphorus for use as flame-retardant, in particular for compositions on the basis of polymers. 4,698,215, 10-6-87, Cl. 423-274.000.

- Albano, Rocco V.; and Durej, Ronald G., to United Technologies Corporation. Digital information transfer system (DITS) transmitter. 4,646,324, 2-24-87, Cl. 375-38.000.
- Albano, Thomas: *See—*
  - Yacobucci, Paul D.; and Albano, Thomas, 4,698,391, Cl. 525-162.000.
- Albany International Corp.: *See—*
  - Bloyce, Lionel T.; and Morley, Michael J., 4,674,684, Cl. 239-123.000.
  - Coplan, Myron J., 4,676,808, Cl. 55-158.000.
  - Coplan, Myron J., 4,709,831, Cl. 220-304.000.
  - Donovan, James G.; and Skelton, John, 4,681,789, Cl. 428-93.000.
  - Duncan, Jeffrey B., 4,662,407, Cl. 139-103.000.
  - Dutt, William H., 4,657,806, Cl. 428-226.000.
  - Dutt, William H., 4,676,278, Cl. 139-383.00A.
  - Josef, Michael J., 4,633,596, Cl. 34-116.000.
  - Romanski, Eric R., 4,649,619, Cl. 29-433.000.
  - Scarano, Robert V.; and Hudon, James D., 4,701,242, Cl. 162-275.000.
- Albares, Donald J.; and Reedy, Ronald E., to United States of America, Navy. Integrated optical wavelength demultiplexer. 4,696,536, 9-29-87, Cl. 350-96.190.
- Albaugh, Neil P.; and Kane, Gordon R., to Burr-Brown Corporation. Apparatus and method for noise reduction in a linear amplifier. 4,641,105, 2-3-87, Cl. 330-9.000.
- Albean, David L., to RCA Corporation. Noise reduction circuit for television multi-channel sound. 4,691,234, 9-1-87, Cl. 358-144.000.
- Albeck, Bernhard; and Goedicke, Siegfried, to Schwabe GmbH. Method of making core laminations, and punch die for carrying out the method. 4,711,019, 12-8-87, Cl. 29-609.000.
- Albecker, Kurt: *See—*
  - Holzhausen, Wieland; and Albecker, Kurt, 4,659,117, Cl. 285-49.000.
- Alber, Bernd. Method for the manufacture of a thermometer and thermometer. 4,655,609, 4-7-87, Cl. 374-194.000.
- Alber, Carl H.; and Alber, Glenn, to Alber Engineering, Inc. Battery testing and monitoring system. 4,707,795, 11-17-87, Cl. 364-550.000.
- Alber Engineering, Inc.: *See—*
  - Alber, Carl H.; and Alber, Glenn, 4,707,795, Cl. 364-550.000.
- Alber, Glenn: *See—*
  - Alber, Carl H.; and Alber, Glenn, 4,707,795, Cl. 364-550.000.
- Albericci, Peter, to British Aerospace PLC. Chromic acid anodizing of aluminium prior to adhesive bonding. 4,690,736, 9-1-87, Cl. 204-38.300.
- Alberino, Louis M.; Pritchard, James R.; and Vespoli, Nancy P., to Dow Chemical Company, The. Cyclohexanedimethanol/diamine mixtures as RIM extenders. 4,659,747, 4-21-87, Cl. 521-159.000.
- Alberkrack, Jade H., to Motorola, Inc. Frequency doubler circuit and method. 4,648,021, 3-3-87, Cl. 363-157.000.
- Alberola, Georges: *See—*
  - Combe, Michel; and Alberola, Georges, 4,651,151, Cl. 340-870.240.
- Albers, Martha J.: *See—*
  - Jaisle, Richard F.; Mollmann, Henry C.; Albers, Martha J.; and Burgess, James H., 4,636,443, Cl. 428-481.000.
- Albers, Michel O., and Singleton, Eric, to South African Inventions Development Corporation. Hydrogentation of unsaturated aliphatic hydrocarbons. 4,691,069, 9-1-87, Cl. 585-259.000.
- Albers, Norbert C.: *See—*
  - Dyment, James A.; Albers, Norbert C.; Benison, Harvey W.; Haschart, Karl E.; and Veach, John S., 4,663,943, Cl. 62-250.000.
- Albers, Rolf; and Blotenberg, Wilfried, to M.A.N. Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Method and apparatus for operating turbo compressor using analog and digital control schemes. 4,656,589, 4-7-87, Cl. 364-431.020.
- Albert, Alban: *See—*
  - Courbat, Pierre; Weith, Andre; and Albert, Alban, 4,634,718, Cl. 514-460.000.
- Albert, Alban I.: *See—*
  - Ballenegger, Marc E.; Rimbault, Christian G.; Albert, Alban I.; Weith, Andre J.; Courbat, Pierre; Tyson, Robert G.; Palmer, Derek R.; and Thompson, David G., 4,644,011, Cl. 514-456.000.
- Albert, Bernhard: *See—*
  - Schrott, Wolfgang; Neumann, Peter; and Albert, Bernhard, 4,675,423, Cl. 556-136.000.
- Albert Bocker GmbH & Co. KG: *See—*
  - Bocker, Albert, 4,640,387, Cl. 182-213.000.
  - Bocker, Albert, 4,655,323, Cl. 187-1.00R.
- Albert Denis S.A.: *See—*
  - Debeaud, Pierre, 4,707,310, Cl. 264-40.600.
- Albert, Dieter: *See—*
  - Bansbach, Armin; and Albert, Dieter, 4,669,034, Cl. 362-309.000.
- Albert Einstein College of Medicine of Yeshiva University: *See—*
  - Diamond, Betty A., 4,690,905, Cl. 436-508.000.
  - Reid, Lola C. M.; and Rojkind, Marcos, 4,642,292, Cl. 435-240.000.
  - Reid, Lola C. M., 4,645,669, Cl. 424-95.000.
  - Shouval, Daniel; Shafritz, David A.; and Wands, Jack R., 4,714,613, Cl. 424-86.000.
  - Svadjian, Edward; and Goldiner, Paul L., 4,674,496, Cl. 128-207.160.
- Albert, Frank, Jr. Ball type universal joint and method of manufacture. 4,645,369, 2-24-87, Cl. 403-24.000.
- Albert-Frankenthal AG: *See—*
  - Herb, Rudolf, 4,690,396, Cl. 271-311.000.
  - Herb, Rudolf, 4,697,805, Cl. 270-47.000.
- Albert, Henry J.; and Wood, Robert H., to University of Delaware, The. Vibrating tube densimeter. 4,655,075, 4-7-87, Cl. 73-32.00A.
- Albert, Michael P. Multi-ply garment component and method of fabrication. 4,670,908, 6-9-87, Cl. 2-139.000.
- Albert, Richard, to Johnson Light Valve Inc. Liquid crystal light valve method and apparatus using right and left-handed twist cholesteric liquid crystal. 4,688,901, 8-25-87, Cl. 350-350.00S.
- Albert, Richard: *See—*
  - Haim, Elias S.; and Albert, Richard, 4,637,687, Cl. 350-335.000.
- Albert Rolland, S.A.: *See—*
  - Labaune, Jean-Pierre; and Essin, Pierre B., 4,709,051, Cl. 548-533.000.
- Albert Rosink Maschinenbau: *See—*
  - Rosink, Albert, deceased, 4,694,540, Cl. 19-159.00R.
- Albert Schrem Werkzeugfabrik GmbH: *See—*
  - Baur, Manfred, 4,697,966, Cl. 409-232.000.
- Albert Schulte Sohne GmbH & Co.: *See—*
  - Vollberg, Fritz; and Steinhaus, Lothar, 4,653,139, Cl. 16-20.000.
  - Vollberg, Fritz; and Steinhaus, Lothar, 4,658,466, Cl. 16-35.00R.
- Albert, Simone V.: *See—*
  - Viot, Jean; Piat, Daniel; Duclos, Alain; and Albert, Simone V., 4,665,595, Cl. 24-616.000.
- Albert, William C., to Singer Company-Kearfott Division, The. Vibrating beam force transducer with single isolator spring. 4,656,383, 4-7-87, Cl. 310-321.000.
- Albert, William C., to Singer Company-Kearfott Division, The. Vibrating beam force transducer with angled isolator springs. 4,658,174, 4-14-87, Cl. 310-323.000.
- Albert, William C., to Singer Company-Kearfott Division, The. Vibrating beam force transducer with A-frame beam root and frequency adjusting means. 4,658,175, 4-14-87, Cl. 310-323.000.
- Alberta Energy Company Ltd.: *See—*
  - Al-Saigh, Abbas, 4,642,223, Cl. 422-191.000.
  - Schramm, Laurier L., 4,637,417, Cl. 137-4.000.
- Alberta Research Council: *See—*
  - Kessick, Michael A.; George, Zacharia M.; and Schneider, Linda G., 4,661,240, Cl. 208-127.000.
- Albertalli, David: *See—*
  - Mower, Dan C.; Wolf, Peter H.; Slade, Boyd E.; and Albertalli, David, 4,713,623, Cl. 328-72.000.
- Alberti, Adriano; and Minella, Giancarlo, to Rockwell-Rimoldi S.p.A. Convertible work support housing for a sewing machine. 4,655,151, 4-7-87, Cl. 112-168.000.
- Albertini, Rocco D.; McClellan, Arthur W.; and Kokoszka, Stephen A., to Baldt Incorporated. Anchor construction. 4,651,669, 3-24-87, Cl. 114-304.000.
- Alberto, Scott. Method for making extended heat transfer surfaces and a tool for putting said method into practice. 4,672,834, 6-16-87, Cl. 72-325.000.
- Alberts, David S.: *See—*
  - Dorr, Robert T.; and Alberts, David S., 4,657,032, Cl. 131-336.000.
- Alberts, Heinrich; Kussi, Siegfried; Grape, Wolfgang; and Schlak, Ottfried, to Bayer Aktiengesellschaft. Lubricating oil preparations. 4,652,386, 3-24-87, Cl. 252-49.600.
- Albertson, Robert V., to Burd, Bartz & Gutenkauf. Pay telephone. 4,645,876, 2-24-87, Cl. 379-143.000.
- Albertson, Robert V. Trash container. 4,711,367, 12-8-87, Cl. 220-404.000.
- Albertz, Theodor; Baumann, Hans-Richard; and Winkler, Gerhard, to Krupp-Koppers GmbH. Venturi tube. 4,651,572, 3-24-87, Cl. 73-861.630.
- Albina, Jorge E.: *See—*
  - Russo, Ronald D.; Caldwell, Michael D.; and Albina, Jorge E., 4,668,225, Cl. 604-270.000.
- Albino, Anthony P.: *See—*
  - Cairncross, J. Gregory; Mattes, M. Jules; Beresford, H. Richard; Albino, Anthony P.; Houghton, Alan N.; Lloyd, Kenneth O.; and Old, Lloyd J., 4,642,291, Cl. 435-240.000.
- Albizzati, Enrico; Pettenati, Enrico; Zucchini, Umberto; and Cuffiani, Illaro, to Montedison S.p.A. Catalysts for homo- and copolymerization of ethylene and the polymers obtained by use thereof. 4,695,558, 9-22-87, Cl. 502-123.000.
- Albon, Philip: *See—*
  - Gostelow, Benjamin F.; Buick, Thomas R.; Hart, William B.; Gale, Paul N.; Carr, Trevor L.; Dibling, Richard C.; and Albon, Philip, 4,671,074, Cl. 62-186.000.
- Alborghetti, Carlo: *See—*
  - Sautebin, Raoul; Weber, Jean-Claude; and Alborghetti, Carlo, 4,699,204, Cl. 164-467.000.
- Albrecht, Allan, to J. I. Case Company. Bucket linkage. 4,638,680, 1-27-87, Cl. 74-516.000.
- Albrecht, Charles W.; and Cornforth, Malcolm W., to Singer Company, The. Calibration system for mechanical gas volume corrector. 4,674,316, 6-23-87, Cl. 73-3.000.
- Albrecht, Ernst: *See—*
  - Diener, Horst; Albrecht, Ernst; and Willenbacher, Erich, 4,677,924, Cl. 112-258.000.
- Albrecht, Gene A.: *See—*
  - Johnson, James S.; and Albrecht, Gene A., 4,680,866, Cl. 33-356.000.
- Albrecht, Hans; and Maly, Rudolf, to Daimler-Benz Aktiengesellschaft. Arrangement for the ignition of ignitable mixtures. 4,658,185, 4-14-87, Cl. 315-58.000.
- Albrecht, Jeffrey C.: *See—*
  - Rapata, George M.; and Albrecht, Jeffrey C., 4,653,968, Cl. 411-247.000.
- Albrecht, Joachim; and Duerig, Thomas, to BBC Brown, Boveri & Company, Limited. Composite material in rod, tube, strip, sheet or

plate shape with reversible thermomechanical properties and process for its production. 4,637,962, 1-20-87, Cl. 428-616.000.

Albrecht, Karl-Hans; Luhr, Hartmut; and Pieck, Gunter, to Halbergerhutte GmbH. Apparatus for producing by the casting technique a cooling means for webs between adjacent cylinders of a cylinder block and a cylinder block produced accordingly. 4,693,294, 9-15-87, Cl. 164-312.000.

Albrecht, Klaus: *See—*

Geissler, Ulrich; and Albrecht, Klaus, 4,705,740, Cl. 430-288.000.

Liebler, Ralf; and Albrecht, Klaus, 4,680,359, Cl. 526-309.000.

Albrecht, Konrad: *See—*

Heinrich, Rudolf; and Albrecht, Konrad, 4,638,090, Cl. 564-437.000.

Albrecht, Leonard N., to California Auto Trends. Convertible top apparatus for midengine automobiles. 4,712,828, 12-15-87, Cl. 296-121.000.

Albrecht, Norman M.; and Blanchard, Roy J., Sr., to Tube-Alloy Corporation. Seals for use in oil and gas well production tubing. 4,655,485, 4-7-87, Cl. 285-333.000.

lbrecht, Raymond E.; Gartner, Rodney W.; Hazen, John O.; and Lindner, Robert G., to H. H. Robertson Company. Floor panel for elevated floor assembly. 4,656,795, 4-14-87, Cl. 52-126.600.

lbrecht, Thomas; and Steinsland, Odd S., to Board of Regents, The University of Texas System, The. Methods and compositions for treating viral infections. 4,663,317, 5-5-87, Cl. 514-211.000.

lbrecht, Wilhelm; Wurz, Dieter; Peitsmeier, Karl; Waldschutz, Heinz, Ruckert, Walter; Kuhn, Klaus; and Patzelt, Helmut, to Daimler-Benz Aktiengesellschaft. Steering wheel for a motor vehicle. 4,644,817, 2-24-87, Cl. 74-552.000.

lbrecht, Wilhelm: *See—*

Burghoff, Karl; Schiller, Werner; Albrecht, Wilhelm; Harsch, Herbert; and Burghoff, Heinz-Georg, 4,680,952, Cl. 72-161.000.

lbrektsson, Kjell: *See—*

Franzen, Arne; Albrektsson, Kjell; and Fixell, Jan-Olov, 4,655,411, Cl. 244-3.110.

Hellner, Lars; Haglund, Ingemar; Ronn, Torsten; and Albrektsson, Kjell, 4,644,867, Cl. 102-495.000.

bright, Darryl L.: *See—*

Wada, Tsuguyasu; Eldis, George T.; and Albright, Darryl L., 4,657,065, Cl. 164-461.000.

bright, Donald R.; Jones, William D.; and Nelson, Doran W., to General Electric Company. Generator air-gap flux probe for detecting shorted rotor turns. 4,667,148, 5-19-87, Cl. 324-51.000.

bright, James A.; and Wilkinson, Theodore C., to Great Lakes Chemical Corporation. Halogenated alkyl phosphate esters and polymer systems incorporating them. 4,696,963, 9-29-87, Cl. 524-144.000.

bright, Jay D.; Powell, Dennis W.; and Dusza, John P., to American Cyanamid Company. N-substituted-N[3-(1,2,4-triazolo[4,3-b]pyridain-6-yl)phenyl]alkanamides, carbamates and ureas. 4,654,343, -31-87, Cl. 514-248.000.

right, Jay D.: *See—*

Dusza, John P.; Tomcufcik, Andrew S.; and Albright, Jay D., 4,654,347, Cl. 514-258.000.

right & Wilson Inc.: *See—*

Lyman, Dale E., 4,671,821, Cl. 75-101.0BE.

right & Wilson Limited: *See—*

Akred, Brian J.; Messenger, Edward T.; and Nicholson, William J., 4,659,497, Cl. 252-135.000.

Davis, Keith P.; and Talbot, Robert E., 4,673,509, Cl. 210-699.000.

Messenger, Edward T.; Mather, Douglas E.; and Phillips, Brinley M., 4,692,271, Cl. 252-354.000.

Renton, Stanley, 4,655,787, Cl. 8-522.000.

ulescu, Marilena; and McMahon, Joseph F., to Foster Wheeler USA orporation. Method for cleaning gas produced from solid carbonaous material in a two-stage gas producer. 4,696,679, 9-29-87, Cl. -203.000.

rger, James R. Faceted gem cut from shallow gemstone material. 708,001, 11-24-87, Cl. 63-32.000.

schkat, Dieter, to Rodenhurst Limited. Device for artificially oducing air flow. 4,700,565, 10-20-87, Cl. 73-147.000.

n Aluminiumwerk Nurnberg GmbH: *See—*

Deuber, Andreas; and Siegl, Edmund, 4,646,692, Cl. 123-193.00P.

Rosch, Fritz, 4,667,577, Cl. 92-187.000.

n Aluminum Corporation: *See—*

Adams, Sherman C., 4,639,970, Cl. 16-90.000.

ohnstone, Thomas O.; and Dawe, Thomas W., 4,649,008, Cl. 264-177.100.

egg, Gene A., 4,680,851, Cl. 29-433.000.

n International Limited: *See—*

amji, Pervez J. F.; Evans, John F.; and Fitzpatrick, Nigel P., 4,704,162, Cl. 75-10.140.

arnes, Anthony J.; and Stracey, Russell J., 4,644,626, Cl. 29-421.00R.

oivin, Richard F.; Huni, Jean-Paul R.; and Potocnik, Vinko, 4,683,047, Cl. 204-243.00M.

ryson, Neil B., 4,643,242, Cl. 164-153.000.

ryson, Neil B.; Auchterlonie, David T. T.; LeBlanc, Guy; and Newberry, Vincent J., 4,709,744, Cl. 164-472.000.

attanach, James B.; and Barnes, Anthony J., 4,657,717, Cl. 264-10.200.

aglish, Alan R.; Foster, Mark H.; and Marwick, William F., 4,687,587, Cl. 252-11.000.

avies, Nigel C.; and Sheasby, Peter G., 4,681,668, Cl. 204-28.000.

esclaux, Paul; and Huni, Jean-Paul R., 4,668,350, Cl. 204-67.000.

ewing, Ernest W., 4,647,357, Cl. 204-243.00R.

Dewing, Ernest W.; and Reesor, Douglas N., 4,668,351, Cl. 204-67.000.

Fitzpatrick, Nigel P.; and Lee, Richard E. G., 4,654,088, Cl. 134-18.000.

Furneaux, Robin C.; Rigby, William R.; and Davidson, Alexander P., 4,687,551, Cl. 204-11.000.

Girard, Joseph S. S., 4,675,081, Cl. 204-67.000.

Gnyra, Bohdan, 4,681,819, Cl. 428-697.000.

Grimes, Roger; and Martin, Derek C., 4,651,804, Cl. 164-455.000.

Innes, Robert A., 4,675,230, Cl. 427-280.000.

Jeffrey, Paul W.; and Marchand, Gilles, 4,637,842, Cl. 148-12.70A.

Talbot, Lionel E., 4,675,588, Cl. 318-599.000.

Alcantara, Miguel A.: *See—*

Lazcano-Navarro, Arturo; Alcantara, Miguel A.; and Hernandez-Ruiz, Jose E., 4,693,274, Cl. 137-625.400.

Alcatel: *See—*

Barbier, Guy; and Amory, Jean-Paul, 4,706,058, Cl. 336-96.000.

Bueno, Serge; and Bourbon, Philippe, 4,701,912, Cl. 370-94.000.

Denhez, Alain; Hargoaa, Francis; and Aubree, Jean, 4,692,932, Cl. 375-107.000.

Denhez, Alain; Hargoaa, Francis; and Aubree, Jean, 4,694,291, Cl. 340-825.200.

Denhez, Alain; Hargoaa, Francis; and Aubree, Jean, 4,698,826, Cl. 375-3.000.

Petit, Andre, 4,678,259, Cl. 439-610.000.

Petit, Andre; Penicaud, Etienne; Le Coz, Gerard; and Jamet, Daniel, 4,703,394, Cl. 361-413.000.

Veyrat, Gilles, 4,663,963, Cl. 73-45.000.

Alcatel N.V.: *See—*

Andrich, Wolfgang; and Schilling, Helmut W., 4,716,300, Cl. 250-578.000.

Bini, Aldo, 4,700,374, Cl. 379-60.000.

Brunn, Otto, 4,700,106, Cl. 313-413.000.

Heck, Wolfgang; Kersten, Peter; and Volz, Hans, 4,712,083, Cl. 338-32.00R.

Hopfensperger, Reinhold, 4,705,453, Cl. 415-119.000.

Kimmich, Klaus, 4,688,888, Cl. 350-96.230.

Oen, Sverre; Poppe, Dag; and Tronsli, Sverre N., 4,695,935, Cl. 363-21.000.

Staub, Norbert, 4,682,073, Cl. 313-414.000.

Van Simaeys, Francoise C. G.; and Guebels, Pierre-Paul, 4,688,211, Cl. 370-58.000.

Alcatel Thomson Faisceaux Hertziens: *See—*

Argintaru, Lazare; and Beuzer, Michel, 4,647,875, Cl. 331-23.000.

Argintaru, Lazare; and Hebrard, Denis, 4,694,260, Cl. 331-9.000.

Mettoudi, Isaac, 4,636,758, Cl. 333-218.000.

Alcatel Thomson Gigadisc, SA: *See—*

Lange, Francois, 4,644,520, Cl. 369-284.000.

Romeas, Rene, 4,685,096, Cl. 369-44.000.

Alcazar, David G.: *See—*

Kwun, Hegeon; Birring, Anmol S.; Singh, Gurvinder P.; Hendrix, Gary J.; and Alcazar, David G., 4,711,120, Cl. 73-119.00R.

Alcini, William V.; and Avery, Steven L., to General Motors Corporation. Refractory metal-lined induction coil. 4,698,473, 10-6-87, Cl. 219-10.790.

Alco Chemical Corporation: *See—*

Yang, Mo-Shu, 4,659,793, Cl. 526-91.000.

Alco Electronic Products, Inc.: *See—*

Stokoe, Philip T.; and Boulais, Dennis R., 4,687,887, Cl. 200-16.00F.

Alco Foodservice Equipment Company: *See—*

Bennett, Clay, 4,641,692, Cl. 141-95.000.

Brightbill, Jerry D.; and Johnson, Kenneth M., 4,646,820, Cl. 165-145.000.

Alcock, Ralph: *See—*

Christianson, Leslie L.; Alcock, Ralph; Froehlich, Donell P.; and Hellickson, Mylo A., 4,662,472, Cl. 180-235.000.

Christianson, Leslie L.; Alcock, Ralph; Froehlich, Donell P.; and Chicoine, Kellen J., 4,705,449, Cl. 414-68.500.

Alcol, Ltd.: *See—*

Av-Zuk, Joseph, 4,685,258, Cl. 52-126.600.

Alcolert Inc.: *See—*

Gump, Jesse F., 4,656,008, Cl. 422-86.000.

Alcombright, Daniel S.: *See—*

Ouellette, William R.; Alcombright, Daniel S.; Curro, John J.; and Linman, E. Kelly, 4,637,819, Cl. 604-369.000.

Alcon Instrumentation, Inc.: *See—*

Rogers, Wayne W.; and Wang, Carl C. T., 4,706,687, Cl. 128-752.000.

Alcon Laboratories, Inc.: *See—*

Beck, Robert E.; Brown, Frank E.; and Jobe, Michael J., 4,657,534, Cl. 604-90.000.

Boltralik, John J., 4,686,214, Cl. 514-179.000.

DuPriest, Mark T.; and York, Billie M., Jr., 4,659,733, Cl. 514-436.000.

Falcetta, Joseph J.; and Park, Joonsup, 4,640,965, Cl. 526-242.000.

Falcetta, Joseph J.; and Park, Joonsup, 4,690,993, Cl. 526-242.000.

Gerson, Steven H.; and Han, Wesley W., 4,694,022, Cl. 514-554.000.

Jobe, Michael J., 4,643,724, Cl. 604-232.000.

Park, Joonsup; and Falcetta, Joseph J., 4,640,941, Cl. 523-107.000.

Su, Kai C.; Stebbins, Leslie F.; and Bhatia, Rajkumar P., 4,670,060, Cl. 252-174.170.

Vlasich, Richard J., 4,641,766, Cl. 222-391.000.

Vlasich, Richard J., 4,658,993, Cl. 222-390.000.

  Williams, Rodger W.; and Morgan, Larry J., 4,686,980, Cl 128-303.130.
  York, Billie M., Jr., 4,644,007, Cl. 514-392.000.
Alcond, Kirk. Surgical anastomosis stent. 4,674,206, 6-23-87, Cl. 128-334.00R.
Alcor, Inc.: *See—*
  Orlando, Thomas W., 4,680,167, Cl. 422-199.000.
Alcorn, George R.: *See—*
  Samson, Dennis J.; and Alcorn, George R., 4,644,838, Cl. 83-865.000.
Alcorn, John W.: *See—*
  Thomas, David C.; Alcorn, John W.; and Nearn, William T., II, 4,650,369, Cl. 405-126.000.
AlcoTec Wire Co.: *See—*
  Anderson, Bruce E., 4,674,672, Cl. 228-135.000.
Alcudia, Empresa para la Industria Quimica, S.A.: *See—*
  Tapia, Graciano J.; and Martinez, Oscar G., 4,651,467, Cl. 47-58.000.
Aldag, Arthur W., Jr.; and Gardner, Lloyd E., to Phillips Petroleum Company. Hydrogel derived catalyst of zinc titanate and alumina promoted with cobalt and molybdenum for hydrodesulfurization or hydrodenitrogenation. 4,652,546, 3-24-87, Cl. 502-307.000.
Aldebaran XIII Consulting Company: *See—*
  Clayman, Henry, 4,676,243, Cl. 128-305.000.
Alden, David H.: *See—*
  Benson, Richard A.; and Alden, David H., 4,683,910, Cl. 137-519.000.
Alden, John W.: *See—*
  Hailey, Samuel I.; and Alden, John W., 4,707,212, Cl. 156-361.000.
Alden, John W., Jr., to Combustion Engineering, Inc. Removal of suspended sludge from nuclear steam generator. 4,664,069, 5-12-87, Cl. 122-381.000.
Alden Research Foundation: *See—*
  Bliudnikas, Kestutis E., 4,684,961, Cl. 346-139.00A.
  Swaffield, John D., 4,684,189, Cl. 439-587.000.
Alden, Wayne S., III: *See—*
  Sicard, Stephen T.; Pedro, Brian A.; and Alden, Wayne S., III, 4,705,333, Cl. 439-71.000.
Aldenhoven, Ghislanus M. A. M., to U.S. Philips Corporation. Disc-record player comprising a pressure member for pressing a record disc against the turntable. 4,649,532, 3-10-87, Cl. 369-270.000.
Aldenhoven, Ghislanus M. A. M., to U.S. Philips Corporation. Mechanism for actuating the recording switch of a magnetic-tape apparatus. 4,660,109, 4-21-87, Cl. 360-96.300.
Aldenhoven, Ghislanus M. A. M., to U.S. Philips Corporation. Servo with impulse relay for a magnetic-tape-cassette apparatus. 4,665,451, 5-12-87, Cl. 360-90.000.
Aldenhoven, Ghislanus M. A. M.: *See—*
  Mestdagh, Gilbert E.; and Aldenhoven, Ghislanus M. A. M., 4,641,747, Cl. 206-309.000.
Alder, Alex; Stanek, Jaroslav; and Bellus, Daniel, to Ciba-Geigy Corporation. Substituted-3-azabicyclo[3.1.1]heptane-2,4-diones useful for treating hormone-dependent diseases. 4,677,129, 6-30-87, Cl. 514-299.000.
Alder, Meryle D. W., to Corning Glass Works. Prevention of foreign material intrusion in an air slide for machines. 4,702,041, 10-27-87, Cl. 51-165.710.
Alder, Werner: *See—*
  Amberg, Rudolf; and Alder, Werner, 4,697,921, Cl. 356-15.000.
Alderdice, Marc T., to Bristol-Myers Company. Method for improvement of short term memory. 4,687,772, 8-18-87, Cl. 514-273.000.
Alderete, John F., to Board of Regents, The University of Texas System. Hybrid cell line producing monoclonal antibody cytolytic to *Trichomonas vaginalis*. 4,707,442, 11-17-87, Cl. 435-7.000.
Alderman, Arnold J., to Minnesota Mining and Manufacturing Company. Automatic exposure control. 4,660,968, 4-28-87, Cl. 355-68.000.
Alderman, Daniel A.; and Wolford, Troy D., to Dow Chemical Company, The. Sustained release dosage form based on highly plasticized cellulose ether gels. 4,678,516, 7-7-87, Cl. 106-197.100.
Alderman, Daniel A., to Dow Chemical Company, The. Sustained release dosage form based on highly plasticized cellulose ether gels. 4,695,464, 9-22-87, Cl. 424-449.000.
Alderman, Daniel A., to Dow Chemical Company, The. Sustained release compositions comprising hydroxypropyl cellulose ethers. 4,704,285, 11-3-87, Cl. 424-468.000.
Alderson, David L.: *See—*
  Foster, Thomas V.; Jones, Stanley P.; and Alderson, David L., 4,682,996, Cl. 65-25.100.
Alderson, Jill D.: *See—*
  Milius, John W.; and Alderson, Jill D., 4,684,550, Cl. 427-437.000.
Alderson, Max, to Rolls-Royce plc. Gas turbine engine having improved resistance to foreign object ingestion damage. 4,666,371, 5-19-87, Cl. 415-197.000.
Alderson, Richard, to Fiberoptic Sensor Technologies, Inc. Fiber optic coupled pressure transducer using single fiber and method of fabrication. 4,711,246, 12-8-87, Cl. 128-667.000.
Aldieri, Raymond: *See—*
  Santii, Robert J.; and Aldieri, Raymond, 4,687,389, Cl. 409-81.000.
Aldinger, Gunther. Endoprosthesis. 4,695,283, 9-22-87, Cl. 623-23.000.
Aldinger, Gunther. Method of manufacturing of individually formed prothesis or implant. 4,704,686, 11-3-87, Cl. 364-468.000.
Aldis Consultants Inc.: *See—*
  McHale, Charles J.; Marrone, Joseph; and Watson, David, 4,639,872, Cl. 364-463.000.
Aldred, Edward J., to Ransomes Sims & Jefferies PLC. Grass cutting attachment for tractor. 4,711,072, 12-8-87, Cl. 56-6.000.
Aldrich, Allyn M., to Sundstrand Corporation. Jam tolerant rotary actuation system. 4,688,744, 8-25-87, Cl. 244-75.00R.
Aldrich-Boranes, Inc.: *See—*
  Brown, Herbert C., 4,713,380, Cl. 568-1.000.
Aldrich, Dale J.: *See—*
  Began, Gary W.; Lucas, Peter A.; Monnerat, Georgia A.; and Aldrich, Dale J., 4,710,429, Cl. 428-417.000.
Aldrich, James R., to United States of America, Air Force. Ferrous and sulfide treatment of electroplating wastewater. 4,705,639, 11-10-87, Cl. 210-720.000.
Aldrich, Ralph E.; and Daigneault, Steven M., to Itek Corporation. Laser mirror having a cooled, deformable surface. 4,674,848, 6-23-87, Cl. 350-610.000.
Aldrich, Ralph E.: *See—*
  Anthony, Frank M.; Aldrich, Ralph E.; and Daigneault, Steven M., 4,657,358, Cl. 350-610.000.
Aldrich, Robert G.; Earl, Geoffrey H.; and Trunko, David W., to Halomet Inc. Process for making ferrite spherical particulate toner core from raw fly ash. 4,698,289, 10-6-87, Cl. 430-106.600.
Aldrich, Roger B.; and White, Gary R., to Chief Automotive Systems, Inc. Measuring device for use with automotive frame straightening equipment. 4,689,888, 9-1-87, Cl. 33-288.000.
Aldrich, Roger L.; Bodett, Peter C.; and Kelly, Richard E., to Duo-Therm Corporation, The. Roof mount air conditioner. 4,641,502, 2-10-87, Cl. 62-244.000.
Aldrich, Stuart R.: *See—*
  Hampson, Alfred A.; Hampson, Blair M.; Aldrich, Stuart R.; and Robie, Lyndon J., 4,653,627, Cl. 194-209.000.
Aldridge, Clyde L.: *See—*
  Bearden, Roby, Jr.; and Aldridge, Clyde L., 4,637,870, Cl. 203-112.000.
  Bearden, Roby, Jr.; and Aldridge, Clyde L., 4,637,871, Cl. 208-112.000.
Aldridge, Fredrick A., to General Motors Corporation. Integrated AM-FM mixer. 4,688,263, 8-18-87, Cl. 455-142.000.
Aldridge, Fredrick A.: *See—*
  Kennedy, Richard A.; and Aldridge, Fredrick A., 4,637,066, Cl. 455-223.000.
Aldridge, Gerald T.; and Peters, Jerry L., to Aluma-Form, Inc. Flexible banding and instrument support system. 4,635,888, 1-13-87, Cl. 248-231.000.
Aldridge, Jack P., III: *See—*
  Robinson, C. Paul; Rockwood, Stephen D.; Jensen, Reed J.; Lyman, John L.; and Aldridge, Jack P., III, 4,655,890, Cl. 204-157.220.
Aldridge, Jimmy A., to Lockheed Corporation. Locking compound for locking fasteners in place. 4,668,297, 5-26-87, Cl. 106-286.500.
Aldridge, Robert E.; Elloway, Russell; Fritz, William O.; Goff, Ralph D.; and Herrera, Michael J., to Thermco Systems, Inc. Method of loading and unloading a furnace. 4,636,140, 1-13-87, Cl. 414-786.000.
Aldridge, Robert E.; Elloway, Russell; Fritz, William O.; Goff, Ralph D.; and Herrera, Michael J., to Thermco Systems, Inc. Semiconductor wafer boat loader control system. 4,684,863, 8-4-87, Cl. 318-599.000.
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Aldridge, Steven L.: *See—*
  Naser, Charles F.; and Aldridge, Steven L., 4,702,641, Cl. 404-97.000.
Aldrovandi, Mauro; and Facchini, Mauro, to Hospal A.G. Detector of bubbles in blood. 4,668,945, 5-26-87, Cl. 340-621.000.
Aldrovandi, Mauro; Cianciavicchia, Domenico; and Pedrazzi, Renato, to Hospal A.G. Peristaltic pump provided with a pressure measurement device. 4,702,675, 10-27-87, Cl. 417-63.000.
Aleksa, David M.: *See—*
  Sullivan, F. Ryan; and Aleksa, David M., 4,715,989, Cl. 252-512.000.
Aleman, Javier. Carrying strap for cameras and the like. 4,637,535, 1-20-87, Cl. 224-202.000.
Aleman, Javier; and McBurney, Kevin B. Method and apparatus for cleaning tower basins. 4,683,067, 7-28-87, Cl. 210-767.000.
Alemanni, James C., to Alpha Modular Systems. Apparatus to straighten the leads of a pin grid array. 4,643,234, 2-17-87, Cl. 140-147.000.
Alender, Wolfgang J.; Anders, Heinz-Gerhard; and Leuthner, Hermann J., to Cooper Industries. Power screwdriver. 4,648,282, 3-10-87, Cl. 73-862.230.
Ales, Thomas M.; Strohbeen, David T.; Damico, Joyce A.; Van Gompel, Paul T.; and Abel, Kent W., to Kimberly-Clark Corporation. Elastic form-fitting closure constructions for disposable garments. 4,639,949, 2-3-87, Cl. 2-400.000.
Ales, Thomas M.; Strohbeen, David T.; and Damico, Joyce A., to Kimberly-Clark Corporation. Disposable garments with multiple strand elasticized openings. 4,642,819, 2-17-87, Cl. 2-400.000.
Ales, Thomas M., to Kimberly-Clark Corporation. Method and apparatus for applying discrete strips of material to a longitudinally extending web. 4,648,928, 3-10-87, Cl. 156-164.000.
Aleshire, Rex A.: *See—*
  Heys, George, Jr.; Aleshire, Rex A.; Hines, Frank; and Belknap, William M., 4,682,325, Cl. 370-85.000.
  Heys, George, Jr.; Aleshire, Rex A.; and Sampson, Harold J., 4,698,707, Cl. 360-99.000.
Alessi Industries, Inc.: *See—*
  Hunt, Gary D.; and Gilles, Helmut, 4,673,261, Cl. 350-531.000.

Alessio, Ralph G.: *See—*
  - Dominico, James; Fardin, Carlos E.; and Alessio, Ralph G., 4,669,376, Cl. 101-38.00A.

Alesson, Thomas, to Nicholson Division, Datron Systems, Inc. Thermostatic steam trap with self-centering valve. 4,679,727, 7-14-87, Cl. 236-56.000.

Alet, Robert; and Marotte, Jean, to Thomson-CSF. Relief sensor for vehicle motion simulators. 4,650,420, 3-17-87, Cl. 434-29.000.

Alewelt, Wolfgang; Eisermann, Wolfgang; Meyer, Karl-Heinrich; Tresper, Erhard; and Ullrich, Martin, to Bayer Aktiengesellschaft. Process for the isolation of polyarylene sulphide. 4,639,507, 1-27-87, Cl. 528-388.000.

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  - Idel, Karsten; Ostlinning, Edgar; Freitag, Dieter; and Alewelt, Wolfgang, 4,661,584, Cl. 528-388.000.

Alex, Wayne E.; and Cook, Harold T., Jr., to Marco Seattle, Inc. Circle hook baiter. 4,648,193, 3-10-87, Cl. 43-4.000.

Alexakis, Alexandre: *See—*
  - Fugier, Claude; Leroux, Michel; Normant, Jean F.; and Alexakis, Alexandre, 4,652,692, Cl. 585-600.000.

Alexander, Arthur. Pantograph angular bitted key cutting machine. 4,657,448, 4-14-87, Cl. 409-81.000.

Alexander, Bruce H.; and Malik, Iftakhar, to United States Water Mattress Co. Water mattress. 4,656,681, 4-14-87, Cl. 5-451.000.

Alexander, Charles. Spill inhibiting dust pan. 4,686,734, 8-18-87, Cl. 15-257.100.

Alexander, Corrinne C.: *See—*
  - Thorpe, Arthur N.; Senftle, Frank E.; and Alexander, Corrinne C., 4,661,118, Cl. 44-1.0SR.

Alexander, David C., to Texaco Inc. Process for producing bicyclic diamines. 4,705,897, 11-10-87, Cl. 564-445.000.

Alexander, Gabriel G.: *See—*
  - Roche, Joseph R., and Alexander, Gabriel G., 4,646,844, Cl. 166-379.000.

Alexander, Garold W.; Hyder, Lonnie E.; and Wright, Robert V., to Peerless Machine & Tool Corporation; and Champion International Corporation. Tray-forming apparatus. 4,690,666, 9-1-87, Cl. 493-152.000.

Alexander, George E.; and Wilkinson, Stanley B., to General Electric Company. Ground distance relay for AC power transmission line protection. 4,686,601, 8-11-87, Cl. 361-80.000.

Alexander, Gordon L.: *See—*
  - Zacky, Ralf G., and Alexander, Gordon L., 4,657,319, Cl. 312-333.000.

Alexander, Iosef; and Bar-on, Menachem, to Negev Phosphates Ltd. Process for the manufacture of monopotassium phosphate. 4,678,649, 7-7-87, Cl. 423-308.000.

Alexander, Ivan D. Method of and apparatus for removing stuck well pipe. 4,658,901, 4-21-87, Cl. 166-301.000.

Alexander, Jack L., to Combustion Engineering, Inc. Gas compressor. 4,648,806, 3-10-87, Cl. 417-238.000.

Alexander, Jack P. Closure for electrostatic bags. 4,669,152, 6-2-87, Cl. 24-30.50R.

Alexander-Jackson, Eleanor G.: *See—*
  - Livingston, Virginia W.; Alexander-Jackson, Eleanor G., and Livingston, Afton M., 4,692,412, Cl. 435-253.000.

Alexander, James; and Bronander, Wilhelm B., III, to Scandia Packaging Machinery Co. Method of handling fifth panel packages and assembly therefor. 4,672,795, 6-16-87, Cl. 53-446.000.

Alexander, Jeffrey; and Zahedi, Karim, to EFB Inc. Method for treating gas streams. 4,668,489, 5-26-87, Cl. 423-240.000.

Alexander, John H.; and Jackson, Dawn A., to STC PLC. Dielectric composition. 4,670,815, 6-2-87, Cl. 361-321.000.

Alexander, Jonathan W., to Tocco, Inc. Power inverter. 4,638,418, 1-20-87, Cl. 363-49.000.

Alexander, Jose; Repta, A. J.; and Fix, Joseph A., to Merck & Co., Inc. Chorine esters as absorption-enhancing agents for drug delivery through mucous membranes of the nasal, buccal, sublingual and vaginal cavities. 4,692,441, 9-8-87, Cl. 514-194.000.

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Alexander, Kenneth L., to Omark Industries, Inc. Cartridge case trimmer method of using same. 4,653,157, 3-31-87, Cl. 29-1.320.

Alexander, Larry R. Permanent wave hair rod. 4,644,965, 2-24-87, Cl. 132-40.000.

Alexander, Linc W. Wind powered propulsion device. 4,634,136, 1-6-87, Cl. 280-213.000.

Alexander, Louis E. Solar chimney. 4,706,471, 11-17-87, Cl. 62-235.100.

Alexander, Michael P., to ASC Incorporated. Convertible top latch mechanism. 4,702,505, 10-27-87, Cl. 292-251.000.

Alexander, Phillip W.; Freberg, Michael S.; Howell, Keith A.; and Johnston, James E., to Caterpillar Inc. Method and apparatus for tensioning ground engaging endless elastomeric belts. 4,650,259, 3-17-87, Cl. 305-10.000.

Alexander, Randall W.: *See—*
  - Troupes, Demetrios; and Alexander, Randall W., 4,703,323, Cl. 340-790.000.
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Alexander, Ranya L.: *See—*
  - Bireley, Richard L.; and Iltis, Rumult, 4,657,039, Cl. 137-78.300.
  - Iltis, Rumult, 4,683,904, Cl. 137-78.300.

Alexander, Richard M.: *See—*
  - Rogers, Russell L.; Perrine, Neill D.; and Alexander, Richard M., 4,639,016, Cl. 285-15.000.

Alexander, Robert H.; Lawson, John R.; and Falter, Ronald C., to Allen-Bradley Company, Inc. Two speed automatic shift drill. 4,648,756, 3-10-87, Cl. 408-9.000.

Alexander, Roy P.; Faust, J. Philip; and Milford, Alan H., to Olin Corporation. Swimming pool chemical dispenser. 4,643,881, 2-17-87, Cl. 422-265.000.

Alexander, Samuel T.: *See—*
  - Ardalan, Sasan H.; and Alexander, Samuel T., 4,677,668, Cl. 379-411.000.

Alexander Schoeller & Co. AG: *See—*
  - Umiker, Hans, 4,690,751, Cl. 209-3.300.

Alexander, Shuford M., Jr.: *See—*
  - Dobbs, Robert J.; and Alexander, Shuford M., Jr., 4,690,693, Cl. 51-307.000.

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Alexander, Thomas T., to Mitsubishi Electric America, Inc. Security apparatus and system. 4,647,914, 3-3-87, Cl. 379-44.000.

Alexander Wiegand GmbH & Co.: *See—*
  - Wahl, Detlev; Elter, Herbert; and Julien, Hermann, 4,646,574, Cl. 73-741.000.

Alexander, Willard E.: *See—*
  - Rubens, Louis C.; Alexander, Willard E.; and Raeck, Carl A., 4,693,856, Cl. 264-45.400.
  - Rubens, Louis C.; and Alexander, Willard E., 4,713,927, Cl. 53-472.000.

Alexander, William, to American Colloid Company. Water swellable clay composition and method to maintain stability in salt contaminated water. 4,634,538, 1-6-87, Cl. 252-8.514.

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Alexandrov, Adolf M.; Vasiliev, Evgeny G.; Iskanderov, Alexandr A.; Magdenko, Vladimir S.; Melikov, Semen G.; Avsharov, Eduard R.; Tsimbler, Jury A.; and Presnyakov, Vladimir I. Magnetic suspension for a vehicle. 4,711,182, 12-8-87, Cl. 104-283.000.

Alexandrov, Jury N.: *See—*
  - Vinogradov, Alexei V.; Makarova, Inna I.; Alexandrov, Jury N.; Galaktionov, Viktor A.; and Ozersky, Jury P., 4,651,748, Cl. 128-680.000.

Alexandrovich, Peter S.; Manthey, Joseph W.; May, John W.; and Sreekumar, Chandra, to Eastman Kodak Company. Method of chemical electrographic image amplification using chemically active toner particles. 4,681,528, 7-21-87, Cl. 430-97.000.

Alexandrovich, Peter S.; Santilli, Domenic; and Ng, Yee S., to Eastman Kodak Company. Plural-stage liquid development of electrostatic charge patterns. 4,701,387, 10-20-87, Cl. 430-45.000.

Alexandrovich, Peter S.: *See—*
  - Myers, Drewfus Y., Jr.; Alexandrovich, Peter S.; Pearce, Glenn T.; Santilli, Domenic; Sreekumar, Chandrasekha; Berwick, Martin A.; Upson, Donald A.; and Goebel, William K., 4,708,923, Cl. 430-112.000.

Alexanian, George. Power saving module. 4,716,490, 12-29-87, Cl. 361-155.000.

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Alexis, Roger P. J.: *See—*
  - Barazeche, Bahman; Alexis, Roger P. J.; and Guidoux, Loic B. Y., 4,645,884, Cl. 379-406.000.

Alfa Chemicals Italiana S.p.A.: *See—*
  - Cannata, Vincenzo; and Tamerlani, Giancarlo, 4,661,628, Cl. 562-401.000.

Alfa-Laval AB: *See—*
  - Ehnstrom, Lars, 4,634,416, Cl. 494-27.000.
  - Ehnstrom, Lars, 4,662,866, Cl. 494-1.000.
  - Ehnstrom, Lars, 4,662,867, Cl. 494-56.000.
  - Klintenstedt, Kjell; Foldhazy, Zoltan; and Forsberg, Bjorn, 4,710,160, Cl. 494-64.000.
  - Svensson, Sven H., 4,660,990, Cl. 366-348.000.
  - Wikholm, Bert S.; Carlsson, Torsten L. T.; and Oster, Ake R., 4,698,310, Cl. 435-316.000.

Alfa-Laval Agrar GmbH: *See—*
  - Muller, Wolfgang, 4,654,071, Cl. 71-12.000.

Alfa-Laval Cheese Systems Limited: *See—*
  - Zahlaus, Alfred, 4,682,538, Cl. 99-453.000.

Alfa-Laval Food & Dairy Engineering AB: *See—*
  - Bolmstedt, Ulf; and Johansson, Bjorn-Olow, 4,696,341, Cl. 165-101.000.

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  - Bolmstedt, Ulf; and Lundblad, Bengt, 4,706,741, Cl. 165-115.000.
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  - Balaam, William J. D.; and Szemplenski, Thomas E., 4,667,590, Cl. 99-470.000.
  - Lee, Chie-Ying; West, James D.; and Cole, Gerald F., 4,643,709, Cl. 494-37.000.
  - Stout, Daniel M.; Ellis, Michael W.; Terwilleger, Arthur R.; and Shankle, Robert D., Jr., 4,671,435, Cl. 222-646.000.
- Alfa-Laval Marine & Power Engineering AB: *See—*
  - Jonak, Vladimir, 4,706,504, Cl. 73-861.580.
- Alfa-Laval Separation AB: *See—*
  - Foldhazy, Zoltan, 4,654,023, Cl. 494-41.000.
  - Gullers, Per, 4,710,159, Cl. 494-27.000.
  - Inge, Claes; Lagerstedt, Torgny; Borgstroem, Leonard; Carlsson, Claes-Goeran; Naebo, Sven-Olof; Moberg, Hans; and Franzen, Peter, 4,701,158, Cl. 494-74.000.
  - Stroucken, Klaus, 4,636,319, Cl. 210-781.000.
  - Stroucken, Klaus; and Gustafsson, Bengt-Olof, 4,643,708, Cl. 494-40.000.
  - Stroucken, Klaus, 4,698,053, Cl. 494-70.000.
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  - Andersson, Jarl; Edso, Lennart; Jonsson, Nils-Ake; and Rissler, Per, 4,699,212, Cl. 165-167.000.
  - Andersson, Jarl A., 4,635,715, Cl. 165-167.000.
- Alfa Romeo Auto S.p.A.: *See—*
  - Braga, Renzo; Pasquali, Renato; and Mendicino, Franco, 4,712,825, Cl. 296-76.000.
  - Ciccarone, Angelo, 4,706,197, Cl. 364-431.080.
  - Dimora, Leonardo; and Minutillo, Emanuele, 4,659,130, Cl. 296-1.00S.
  - Fanti, Cristoforo; Travaglio, Gianclaudio; Ferrario, Luciano; and Moscatelli, Saverio, 4,714,127, Cl. 180-233.000.
  - Ferrario, Luciano, 4,653,341, Cl. 74-473.00R.
  - Paludetto, Ferdinando, 4,655,476, Cl. 280-804.000.
  - Radaelli, Dario; and Giraudi, Walter, 4,711,400, Cl. 239-585.000.
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  - Dubach, Werner F., 4,696,408, Cl. 215-237.000.
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- Alferness, Rodney C., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Electrooptic polarization multiplexer/demultiplexer. 4,711,515, 12-8-87, Cl. 350-96.140.
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  - Fischer, Peter; Schmolz, Rainer; and Wurstner, Eugen, 4,669,174, Cl. 29-568.000.
- Alfons Haar Maschinenbau GmbH & Co. KG: *See—*
  - Haar, Thomas, 4,691,817, Cl. 198-468.200.
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- Alford, Richard M., to Amoco Corporation. Method of vertical seismic profiling and exploration. 4,706,224, 11-10-87, Cl. 367-41.000.
- Alford, Richard M.: *See—*
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- Alford, Robert A.; and Braemer, Mark C., to BASF Corporation. Process of making a film faced expanded polystyrene foam board. 4,687,534, 8-18-87, Cl. 156-308.600.
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- Alfred Bolz GmbH & Co. KG: *See—*
  - Boos, Gunther, 4,637,760, Cl. 406-105.000.
- Alfred & Christian Peterson, Ltd.: *See—*
  - Sensabaugh, Andrew J.; Mangan, William P.; and Marsh, Arvol C., 4,660,577, Cl. 131-352.000.
- Alfred D. Lobo & Co., L.P.A.: *See—*
  - Fago, Anthony; and Lobo, Alfred D., 4,668,229, Cl. 604-327.000.
- Alfred Grass GmbH Metallwarenfabrik: *See—*
  - Grass, Alfred, 4,671,716, Cl. 411-156.000.
- Alfred H. Schutte, Firma: *See—*
  - Heinen, Walter, 4,700,594, Cl. 82-3.000.
- Alfred Karcher GmbH & Co.: *See—*
  - Schulze, Werner; and Gerich, Josef, 4,709,859, Cl. 239-525.000.
- Alfred Teves GmbH: *See—*
  - Bangert, Dieter, 4,643,277, Cl. 188-1.110.
  - Belart, Juan, 4,641,891, Cl. 303-10.000.
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  - Belart, Juan; Fennel, Helmut; Seibert, Wolfram; and Batistic, Ivica, 4,643,492, Cl. 303-119.000.
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  - Blum, Klaus-Dieter; and Schmitt, Wolfgang, 4,699,001, Cl. 73-121.000.
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  - Czich, Erhard; Drott, Peter; and Haefner, Horst, 4,709,789, Cl. 188-73.440.
  - Drott, Peter, 4,693,341, Cl. 188-72.700.
  - Fennel, Helmut; and Wupper, Hans, 4,648,662, Cl. 303-92.000.
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  - Kircher, Dieter; von Gruenberg, Hubertus; Blum, Klaus D.; and Becker, Peter, 4,658,939, Cl. 188-156.000.
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  - Klein, Hans-Christof; Armonier, Ulrich; Oesterle, Hermann; and Jendroska, Juergen, 4,641,519, Cl. 73-129.000.
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  - Neubrand, Theo, 4,643,487, Cl. 303-114.000.
  - Reinartz, Hans D.; and Steffes, Helmut, 4,687,259, Cl. 303-114.000.
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  - Saalbach, Kurt; and Hartmann, Willi, 4,709,551, Cl. 60-589.000.
  - Schmoelzer, Ernst, 4,648,489, Cl. 188-195.000.
  - Schmoelzer, Ernst, 4,673,224, Cl. 303-56.000.
  - Schopper, Bernd; and Tandler, Peter, 4,639,048, Cl. 303-22.00R.
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  - Schuett, Bernd; and Kronenberg, Martin, 4,647,114, Cl. 303-92.000.
  - Seibert, Wolfram; and Blum, Klaus-Dieter, 4,702,336, Cl. 180-197.000.
  - Seibert, Wolfram; Ocvirk, Norbert; and Schonlau, Juergen, 4,708,404, Cl. 303-114.000.
  - Thiel, Rudolf; and Doell, Andreas, 4,643,278, Cl. 188-72.700.
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  - Weiler, Rolf, 4,685,686, Cl. 277-212.0FB.
  - Wupper, Hans; and Buschmann, Gunther, 4,693,522, Cl. 303-105.000.
  - Wupper, Hans, 4,699,435, Cl. 303-11.000.
- Alfred University Research Foundation, Inc.: *See—*
  - Funk, James E., 4,650,496, Cl. 44-51.000.
- Alfredsson, Alf I., to Victor Hasselblad AB. Mechanism in single-lens reflex cameras. 4,673,271, 6-16-87, Cl. 354-152.000.
- Alfredsson, Alf I.; and Persson, Kjell A., to Victor Hasselblad AB. Arrangement for winding cameras. 4,693,579, 9-15-87, Cl. 354-173.100.
- Alfrey, Norval K. Fertilizer manufacture. 4,652,295, 3-24-87, Cl. 71-43.000.
- Alger, Donald L. Process and apparatus for reducing the loss of hydrogen from Stirling engines. 4,651,527, 3-24-87, Cl. 60-517.000.
- Algieri, Aldo A.; and Crenshaw, Ronnie R., to Bristol-Myers Company. Substituted 3,4-diamino-1,2,5-thiadiazoles having histamine H_2-receptor antagonist activity. 4,644,006, 2-17-87, Cl. 514-362.000.
- Algieri, Aldo A.; and Crenshaw, Ronnie R., to Bristol-Myers Company. Substituted 3,4-diamino-1,2,5-thiadiazoles having histamine H_2-receptor antagonist activity. 4,692,531, 9-8-87, Cl. 548-193.000.
- Algina Aktiengesellschaft: *See—*
  - Kulbe, Klaus D.; and Weber, Hans, 4,689,322, Cl. 514-54.000.
- Algoma Hardwoods, Inc.: *See—*
  - Ellsworth, Wendell E.; and Birdsall, Raymond P., 4,637,182, Cl. 52-211.000.
- Algonquin Mercantile Corporation: *See—*
  - Chhatwal, K. N. Singh, 4,645,910, Cl. 219-437.000.
- Algrim, Donald J.; Vermilion, Donn R.; Hammond, Donald J.; and Haines, Richard M., to Owens-Corning Fiberglas Corporation. Glass fiber size and impregnant compositions. 4,636,437, 1-13-87, Cl. 428-391.000.

Algrim, Donald J.: *See—*
  Broderick, Thomas B.; Algrim, Donald J.; and Hayden, Richard F., 4,709,523, Cl. 52-406.000.

Alguard, Mark: *See—*
  Howarth, John; and Alguard, Mark, 4,715,715, Cl. 356-402.000.

Alguard, Mark J., to Measurex Corporation. Color sensor. 4,699,510, 10-13-87, Cl. 356-73.000.

ALH Systems, Ltd.: *See—*
  Carruthers, Alec R., 4,705,116, Cl. 175-19.000.

Alhauser, Erich. Apparatus for the treatment, in particular softening and/or complete desalination of water. 4,684,461, 8-4-87, Cl. 210-96.100.

Ali, Asad: *See—*
  Fazlin, Fazal A.; and Ali, Asad. 4,689,105, Cl. 156-382.000.

Ali, Fadia E.; and Huffman, William F., to SmithKline Beckman Corporation. Compositions and methods for producing vasodilation and antioxytocic activity. 4,684,622, 8-4-87, Cl. 514-11.000.

Ali, Fadia E.; Huffman, William F.; Marshall, Garland R.; and Moore, Michael L., to SmithKline Beckman Corporation. Des-proline-N-methylarginine vasopressins. 4,687,758, 8-18-87, Cl. 514-11.000.

Ali, Mohammad A.; Cotroneo, George V.; Rodrigue, Peter R.; and Smith, Robert T., to Acres International Corporation. Control system for run-of-river hydroelectric plant. 4,674,279, 6-23-87, Cl. 60-398.000.

Ali, Mohammad H., to United States Gypsum Company. Fire resistant gypsum board . . . anhydrite. 4,647,486, 3-3-87, Cl. 428-70.000.

Ali, Sameh A. H.; and Haag, Juergen, to Kernforschungszentrum Karlsruhe GmbH. Process for the separation of large amounts of uranium from small amounts of radioactive fission products, which are present in basic, aqueous carbonate containing solutions. 4,696,768, 9-29-87, Cl. 252-628.000.

Ali, Syed Z., to Baker CAC. Gate valve seal system. 4,645,179, 2-24-87, Cl. 251-327.000.

Alia, Francesco; and Ruggerini, Gianfranco, to Contraves Italiana S.p.A. Multi-shaped-beam reflector antenna. 4,689,630, 8-25-87, Cl. 343-779.000.

Alias, Pascal; Lacoste, Olivier; Marjollet, Jacques; and Pouderoux, Pierre, to Stein Industrie. Heat exchanger device for drying and superheating steam. 4,671,214, 6-9-87, Cl. 122-488.000.

Alibhai, Asgar M. H.: *See—*
  Singer, Alfred R. E.; Jenkins, Walter N.; and Alibhai, Asgar M. H., 4,657,787, Cl. 427-319.000.

Alibran, Patrice; Millot, Jean-Paul; and Desfontaines, Guy, to Framatome & Cie. Modular lining for adapting the containment to the core of a pressurized water nuclear reactor. 4,701,299, 10-20-87, Cl. 376-302.000.

Alibran, Patrice: *See—*
  Millot, Jean-Paul; Alibran, Patrice; and Desfontaines, Guy, 4,701,296, Cl. 376-172.000.

Alicot, Michel, to Manufacture Landaise de Produits Chimiques. Process for the purification of mercaptobenzothizaole. 4,647,669, 3-3-87, Cl. 548-177.000.

Alicot, Michel; and Pierre, Jacky, to Atochem. Process for purifying aqueous hydrazine hydrate solutions. 4,657,751, 4-14-87, Cl. 423-407.000.

Alie, Enrique, to Falcon Jet Corporation. Combination toilet and vanity. 4,645,145, 2-24-87, Cl. 244-118.500.

Alie, Enrique: *See—*
  Ryan, James M.; and Alie, Enrique, 4,674,713, Cl. 244-122.00R.

Alie, Jean-Claude: *See—*
  Klepper, Guy E. D.; Kornelis, Hendrik; and Alie, Jean-Claude, 4,667,722, Cl. 152-543.000.

Alig, Franz; Bocker, Heinrich; Neulinger, Franz; and Schummer, Helmut, to Metallgesellschaft Aktiengesellschaft. Method of automatically controlling an electrostatic precipitator. 4,690,694, 9-1-87, Cl. 55-4.000.

Alig, Leo; and Muller, Marcel, to Hoffmann-La Roche Inc. Aziridine and phenethanolamine derivatives having antiobesity and anti-hyperglycaemic activity. 4,652,679, 3-24-87, Cl. 564-86.000.

Alig, Roger C., to RCA Corporation. Color picture tube having improved electron gun. 4,634,923, 1-6-87, Cl. 313-413.000.

Alig, Roger C.; Bloom, Stanley; and Hockings, Eric F., to RCA Corporation. Color display system with electrostatic convergence means. 4,697,120, 9-29-87, Cl. 313-412.000.

Aligena AG: *See—*
  Linder, Charles; Aviv, Gershon; Perry, Mordechai; and Kotraro, Reuven, 4,690,765, Cl. 210-654.000.
  Linder, Charles; Aviv, Gershon; Perry, Mordechai; and Kotraro, Reuven, 4,690,766, Cl. 210-654.000.
  Perry, Mordechai; Kotraro, Reuven; Linder, Charles; and Aviv, Gershon, 4,659,474, Cl. 210-638.000.

Alimed, Inc.: *See—*
  Shafer, Alice, 4,646,374, Cl. 5-481.000.

Alivizatos, Margaret A. Convertible body supporting pads. 4,689,844, 9-1-87, Cl. 5-455.000.

Aljo Products, Inc.: *See—*
  Romer, Theodore, 4,660,333, Cl. 52-169.500.

Alkaitis, Saulius A.: *See—*
  Fitzgerald, Maurice E.; Braunstein, David M.; Alkaitis, Saulius A.; and Pinsky, Naum, 4,708,918, Cl. 429-210.000.
  Pinsky, Naum; and Alkaitis, Saulius A., 4,713,306, Cl. 429-218.000.

Alkaloida Vegyeszeti Gyar: *See—*
  Acs, Maria; Faigl, Ferenc; and Fogassy, Elemer, 4,642,205, Cl. 260-501.170.
  Hideg, Kalman; Hankovszky, Olga H.; Frank, Laszlo ; Bodi, Ilona; and Csak, Jozsef, 4,703,056, Cl. 514-414.000.
  Hosztafi, Sandor; Timar, Tibor; Salamon, Zoltan; Fabian nee Orban, Ilona; and Nagy nee Vajda, Julianna, 4,647,694, Cl. 562-443.000.
  Madi-Szabo, Laszlo; Morvai, Margit; Horvath nee Feher, Eva; Jansco, Sandor; Tamasi, Piroska; Kovacs, Istvan; Kiss nee Loss, Ilona Maria; Bacsa, Gyorgy; Kubala nee Papp, Maria; and Bene nee Horvath, Magdolna, 4,705,779, Cl. 514-27.000.
  Salamon, Zoltan; Imre nee Virag, Ilona; and Sebestyen, Magdolna, 4,659,834, Cl. 546-180.000.
  Timar, Tibor; Zsupan, Kalman; Repasi, Janos; Borsos nee Safranek, Iren; Kiss, Istvan; Fodor, Amdras; and Maroy, Peter, 4,716,238, Cl. 549-408.000.

Alkem GmbH: *See—*
  Funke, Peter; Hanus, Dietmar; Lob, Rainer; and Konigs, Wihelm, 4,676,935, Cl. 264-0.500.
  Lasberg, Ingo; and Druckenbrodt, Wolf-Gunther, 4,687,941, Cl. 250-506.100.
  Ledebrink, Friedrich-Wilhelm; and Link, Karl-Rupprecht, 4,676,175, Cl. 110-235.000.
  Ledebrink, Friedrich-Wilhelm, 4,702,862, Cl. 252-628.000.
  Stoll, Wolfgang; and Guldner, Ralf, 4,672,213, Cl. 250-506.100.

Alker, Bruce B.; and McGovern, Michael J., to Alpharel Incorporated. Computer based drawing management system. 4,665,555, 5-12-87, Cl. 382-41.000.

Alker, David; Campbell, Simon F.; and Cross, Peter E., to Pfizer Inc. Antihypertensive 2-hydroxyalkoxyalkyl dihydropyridines. 4,654,353, 3-31-87, Cl. 514-334.000.

Alker, Karl-Heinz: *See—*
  Henne, Heinrich; Patzelt, Norbert; and Alker, Karl-Heinz, 4,664,322, Cl. 241-176.000.

Alkjaer, Peter, to V. Kann Rasmussen Industri A/S. Connection between the lower edge of a skylight and the adjacent roof covering. 4,685,256, 8-11-87, Cl. 52-58.000.

Alklind, Lars E.; and Nilsson, Eric, to Regionala Stiftelsen i Varmland med firma Erress. Device comprising a mattress support. 4,697,290, 10-6-87, Cl. 5-61.000.

Alkofer, James S., to Eastman Kodak Company. Digital image processing method for over and under exposed photographic images. 4,636,845, 1-13-87, Cl. 358-80.000.

Alkofer, James S., to Eastman Kodak Company. Digital image processing method for images with bimodal tone value distribution. 4,642,683, 2-10-87, Cl. 358-80.000.

Alkofer, James S., to Eastman Kodak Company. Method and apparatus for detecting and printing color photographic images of scenes exposed with narrow band illuminant. 4,642,684, 2-10-87, Cl. 358-80.000.

Alkofer, James S., to Eastman Kodak Company. Method for detecting blank frames in a photographic color printer. 4,651,199, 3-17-87, Cl. 358-80.000.

Alkofer, James S., to Eastman Kodak Company. Tone value sample selection in digital image processing method employing histogram normalization. 4,654,722, 3-31-87, Cl. 358-284.000.

Alkofer, James S., to Eastman Kodak Company. Digital color image processing method with shape correction of histograms used to produce color reproduction functions. 4,677,465, 6-30-87, Cl. 358-80.000.

Alkoto Ifjusag Egyesules: *See—*
  Toth, Jeno ; Szeles, Jozsef; and Egenhoffer, Otto, 4,676,918, Cl. 252-70.000.

All-Mark Corporation, Inc.: *See—*
  Hayduchok, Leon; and Strauss, Leopold, 4,681,471, Cl. 401-34.000.

All States Inc.: *See—*
  Shely, William W.; and Wells, Peter M., 4,640,479, Cl. 248-56.000.

All-Steel Canada Ltd.: *See—*
  Worrell, Williams R.; Laroche, Robert N.; and Armstrong, Michael J., 4,637,666, Cl. 312-196.000.

Allada, Sambasiva R., to Dow Chemical Company, The. Method for reducing residual monomers from oversized fat imbibing copolymer beads. 4,695,621, 9-22-87, Cl. 528-483.000.

Allada, Sambasiva R., to Dow Chemical Company, The. Extraction of residues from styrenic polymers. 4,703,105, 10-27-87, Cl. 528-483.000.

Allain, Raymond J.; Bolduc, Henry P., Jr.; Patterson, Thomas R.; and Ingram, Timothy J., to Precision Engineered Systems Inc. Automatic blanket wash system. 4,686,902, 8-18-87, Cl. 101-424.000.

Allaire, Eugene J. Bottle top. 4,679,697, 7-14-87, Cl. 215-295.000.

Allaire, Michael J.: *See—*
  Cartmell, James V.; Allaire, Michael J.; Burcham, Larry R.; and Patrick, Charles T., Jr., 4,685,467, Cl. 128-640.000.

Allam, Ibrahim M.; and Rowcliffe, David J., to S R I International. Process for applying thermal barrier coatings to metals and resulting product. 4,715,902, 12-29-87, Cl. 148-6.300.

Allan, Barry D., to United States of America, Army. Tactical monopropellant. 4,664,730, 5-12-87, Cl. 149-36.000.

Allan, Bernard D.: *See—*
  Atkinson, Peter; and Allan, Bernard D., 4,706,501, Cl. 73-730.000.

Allan, Donald R.: *See—*
  Carlisle, Brian R.; Witham, Carl R.; Allan, Donald R.; and Meadows, John W., 4,702,668, Cl. 414-744.00R.

Allan, G. Graham; and Miller, Thomas A., to Adams Veterinary Research Laboratories. Long-acting pyrethrum/pyrethroid based pesticides with silicone stabilizers. 4,668,666, 5-26-87, Cl. 514-63.000.

Allan, Geoffrey; Miller, Alistair A.; and Sawyer, David A., to Burroughs Wellcome Co. 1,2,4-triazines. 4,649,139, 3-10-87, Cl. 514-242.000.

Allan, James D., to Inmos Corporation. Dram current control technique. 4,656,612, 4-7-87, Cl. 365-203.000.

Allan, James D., to Inmos Corporation. Source follower CMOS input buffer. 4,698,526, 10-6-87, Cl. 307-475.000.
Allan, John S.: *See—*
  Tripp, Jeff; Allan, John S.; and Murphy, F. Merrick, 4,665,788, Cl. 84-1.100.
Allan, Jonathan M.; Burton, Richard J.; and Jurock, Volker, to CD Medical Inc. Apparatus and method for controlling ultrafiltration during hemodialysis. 4,715,959, 12-29-87, Cl. 210-637.000.
Allan, R. Robert, to Ad-Dom International Limited. Message dome for automotive vehicles. 4,688,343, 8-25-87, Cl. 40-592.000.
Allan, Thomas T.; and Cramer, Robert V., to Flanders Filters, Inc. High efficiency particulate air filter. 4,685,944, 8-11-87, Cl. 55-491.000.
Allanic, Michel: *See—*
  Cluniat, Claude; and Allanic, Michel, 4,660,003, Cl. 333-17.00L.
  Corbel, Philippe; and Allanic, Michel, 4,672,452, Cl. 358-187.000.
Allara, David L.; and Nuzzo, Ralph G., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Modification of the properties of metals. 4,690,715, 9-1-87, Cl. 148-6.15R.
Allard, Andre, to Beloit Corporation. Heated variable crown roll. 4,679,287, 7-14-87, Cl. 29-116.0AD.
Allard, Craig L.: *See—*
  Merrill, Richard E.; and Allard, Craig L., 4,638,797, Cl. 128-156.000.
Allard, Jean-Claude; Briard, Rene; and Saurier, Christian, to Giravions Dorand. Indoor training device for weapon firing. 4,657,511, 4-14-87, Cl. 434-20.000.
Allard, Patrice: *See—*
  Dodin, Andre; Siffert, Odile; Le Tr uillier, Georgette; and Allard, Patrice, 4,686,281, Cl. 530-327.000.
Allard, Vincent L., to BICC Public Limited Company. Method and apparatus for determining the electrical connection between a probe and conductor under test. 4,670,707, 6-2-87, Cl. 324-51.000.
Allard, Vincent L.; and Gallard, Henry, to BICC Public Limited Company. Winding apparatus. 4,708,298, 11-24-87, Cl. 242-25.00A.
Allard, Vincent L., to BICC Public Limited Company. Coil forming method. 4,714,209, 12-22-87, Cl. 242-25.00R.
Allared, Carl-Axel, to ASEA Aktiebolag. Wrist for an industrial robot. 4,704,065, 11-3-87, Cl. 414-735.000.
Allaria, Alain P.; and Druet, Jacques G., to Societe Nationale d'Etude et de Construction de Moteur d'Aviation S.N.E.C.M.A. Pressurised reservoir closure device. 4,651,428, 3-24-87, Cl. 33-126.70R.
Allbeson, Keith F.: *See—*
  Aspden, Garth J.; and Allbeson, Keith F., 4,655,998, Cl. 376-290.000.
Allcock, David, to Canadian Marconi Company. Crossed-drooping dipole antenna. 4,686,536, 8-11-87, Cl. 343-700.0MS.
Allcock, Harry R.; Austin, Paul E.; and Neenan, Thomas X., to Research Corporation. Anesthetic polyorganophosphazenes. 4,636,387, 1-13-87, Cl. 514-89.000.
Allcock, Harry R.; Stinnett, S. James; Tedder, Joseph B., Jr.; and Adams, J. Robert, Jr., to Ethyl Corporation. Pyridine phosphonitrilic halide trimer process. 4,656,017, 4-7-87, Cl. 423-300.000.
Allcock, Jerald T.: *See—*
  Cooper, Donald K., 4,654,918, Cl. 15-98.000.
Allcorn, Calbert: *See—*
  Reynaud, Gary L.; and Allcorn, Calbert, 4,701,092, Cl. 414-115.000.
Alldredge, Mark L. Running board and toolbox. 4,696,507, 9-29-87, Cl. 296-37.600.
Alle, Narasaiah, to Dow Chemical Company, The. ABS type resin having disperse particles of a rubber exhibiting a high solution viscosity and a method for its preparation. 4,640,959, 2-3-87, Cl. 525-316.000.
Allebest, Edward F.; Hansen, Parley E.; Walsh, George A.; and Maguire, Walter R., to Resolution Research, Inc. Interactive multi-user laser disc system. 4,644,515, 2-17-87, Cl. 369-32.000.
Allebest, Edward F.; Hansen, Parley E.; Walsh, George A.; and Maguire, Walter R., to Resolution Research, Inc. Interactive plural head laser disc system. 4,701,896, 10-20-87, Cl. 369-32.000.
Allegheny Ludlum Corporation: *See—*
  Aggen, George; Borneman, Paul R.; and Washko, Stephen D., 4,661,169, Cl. 148-2.000.
  Benford, James G., 4,666,535, Cl. 148-113.000.
  Benford, James G., 4,711,113, Cl. 72-197.000.
  Fedoris, Michael A., 4,662,954, Cl. 148-112.000.
  Johns, Robert H.; and Nauman, John D., 4,678,719, Cl. 428-593.000.
  Johns, Robert H.; and Nauman, John D., 4,715,428, Cl. 164-463.000.
  Knauss, William F., Jr.; Pal, Uday B.; and Patil, Balaji V., 4,695,318, Cl. 75-51.100.
  Malagari, Frank A., Jr., 4,693,762, Cl. 148-111.000.
  Mosser, John E.; Flaherty, Daniel R.; and Riedl, James R., 4,662,546, Cl. 222-591.000.
  Pal, Uday B.; and Snyder, Ralph E., 4,688,724, Cl. 239-424.000.
  Shen, Tien-Hung; and Salsgiver, James A., 4,680,062, Cl. 148-111.000.
  Whiddon, Clifford R.; Flaherty, Daniel R.; and Turowski, Lawrence E., 4,657,066, Cl. 164-476.000.
Allegheny-Singer Research Institute: *See—*
  Slifkin, Malcolm, 4,666,699, Cl. 424-7.100.
  Slifkin, Malcolm, 4,673,639, Cl. 435-36.000.
Allegra, Carmen; Drake, James C.; Chabner, Bruce A.; Masur, Henry; and Kovacs, Joseph A., to United States of America, Health and Human Services. Use of trimetrexate as antiparasitic agent. 4,694,007, 9-15-87, Cl. 514-260.000.
Allegretti & Company: *See—*
  Haupt, Gene, 4,689,635, Cl. 343-894.000.
Allelix Inc.: *See—*
  Anderson, Hugh B., 4,690,801, Cl. 422-68.000.
  Chandler, Howard M., 4,665,034, Cl. 435-287.000.
Alleman, Carl E., to Phillips Petroleum Company. Method for condensing a gas in a liquid medium. 4,659,521, 4-21-87, Cl. 261-123.000.
Alleman, Raymond A.: *See—*
  Raush, Russell G.; and Alleman, Raymond A., 4,709,716, Cl. 134-122.00R.
Allemand, Charly D., to Hamamatsu Systems, Inc. Particle detection method and apparatus. 4,655,592, 4-7-87, Cl. 356-237.000.
Allemand, Didier; Degoix, Bernard; and Dubar, Thierry, to Les Cables de Lyon. Underwater optical fibre cable. 4,671,611, 6-9-87, Cl. 350-96.230.
Allemand, Pierre: *See—*
  Berrod, Gerard; Maurer, Robert; Brun, Jean-Louis; Bosc, Philippe; and Allemand, Pierre, 4,665,985, Cl. 166-281.000.
Allemand, Robert; Gagelin, Jean-Jacques; and Pleyber, Gaetan, to Commissariat a l'Energie Atomique. Process for examining a flat radiograph of an object and ionization chamber for performing the process. 4,645,934, 2-24-87, Cl. 250-374.000.
Allemandou, Michel, to Societe Anonyme des Usines Chausson. Method for crimping a tube end plate of a heat exchanger on a header box and heat exchanger obtained through this method. 4,649,628, 3-17-87, Cl. 165-148.000.
Allen, Adrian; and Farrar, David, to Allied Colloids Limited. Polymeric compositions. 4,677,152, 6-30-87, Cl. 524-543.000.
Allen, Anthony P.; Forsmo, Sten; and Langley, John G., to Allied Colloids Limited. Iron ore pelletization. 4,684,549, 8-4-87, Cl. 427-221.000.
Allen, Archelaius D.: *See—*
  Ward, Richard; and Allen, Archelaius D., 4,692,067, Cl. 405-302.000.
Allen, Barbara A.; and Kite, Rebecca. Kettledrum. 4,635,524, 1-13-87, Cl. 84-419.000.
Allen, Barbara A.; and Kite, Rebecca. Kettledrum. 4,674,390, 6-23-87, Cl. 84-419.000.
Allen and Bennett, Inc.: *See—*
  Allen, Loy F., 4,640,349, Cl. 166-68.500.
Allen, Bert L.; and Forouhi, A. Rahim, to Advanced Micro Devices, Inc. EPROM with ultraviolet radiation transparent silicon nitride passivation layer. 4,665,426, 5-12-87, Cl. 357-54.000.
Allen, Beverly J.: *See—*
  McCoy, James M.; and Allen, Beverly J., 4,646,630, Cl. 99-468.000.
Allen-Bradley Company: *See—*
  Erbe, Raymond A.; Molus, Richard J., Sr.; Barnak, James; and Herson, Mark I., 4,699,455, Cl. 350-96.200.
  Kerkman, Russel J.; and Rowan, Timothy M., 4,680,695, Cl. 363-160.000.
  Simonsen, Glenn H.; and Klotz, Clayton J., 4,637,676, Cl. 339-113.00R.
Allen-Bradley Company, Inc.: *See—*
  Alexander, Robert H.; Lawson, John R.; and Falter, Ronald C., 4,648,756, Cl. 408-9.000.
  Branc, Joseph R.; Merchant, Thomas J.; Miller, William L.; and Pisczak, Philip J., 4,685,303, Cl. 62-3.000.
  Craker, Robert, 4,716,495, Cl. 361-391.000.
  Craker, Robert, 4,716,497, Cl. 361-395.000.
  Duchrow, Robert A., 4,699,293, Cl. 220-378.000.
  Engdahl, Jonathan R.; Hanneman, Jeffery A.; and Sweeton, David C., 4,667,323, Cl. 370-85.000.
  Kerkman, Russel J.; and Rowan, Timothy M., 4,706,012, Cl. 323-280.000.
  Kohn, Gabriel S., 4,652,805, Cl. 318-628.000.
  Schultz, Ronald E.; Schmidt, Otomar; and Johnston, David A., 4,638,452, Cl. 364-900.000.
  Struger, Odo J., 4,691,296, Cl. 364-900.000.
Allen, Charles B.; Madsen, Scott T.; and Paradice, William L., Jr., to BOC Group, Inc., The. Apparatus for forming solid carbon dioxide. 4,652,287, 3-24-87, Cl. 62-35.000.
Allen, Charles M.: *See—*
  Bingham, David; and Allen, Charles M., 4,636,930, Cl. 363-60.000.
  Bingham, David; and Allen, Charles M., 4,679,134, Cl. 363-61.000.
Allen, Charles R. Tree bark protector. 4,700,507, 10-20-87, Cl. 47-23.000.
Allen, Charles R.; and Harshman, Jack D., to Daniel Industries, Inc. Self-cleaning and self-lubricating fluid flowmeter. 4,715,234, 12-29-87, Cl. 73-861.910.
Allen, Charles W.: *See—*
  Geohegan, Kenneth P., Jr.; and Allen, Charles W., 4,635,240, Cl. 367-89.000.
Allen, Christopher M.; and Robbie, Roderick G. Stadium building. 4,676,033, 6-30-87, Cl. 52-6.000.
Allen Classics, Ltd.: *See—*
  Eisen, Leonard, 4,700,635, Cl. 108-91.000.
Allen, Clifford W., Jr.; and Leaf, Ronn J., to Lexair, Inc. Fluid pressure sensor. 4,669,960, 6-2-87, Cl. 417-63.000.
Allen, Coburn. Headlights on reminder. 4,653,422, 3-31-87, Cl. 116-28.00R.
Allen Coding Machines Limited: *See—*
  Kempster, Roger B., 4,702,428, Cl. 242-67.200.
Allen, Crowley C., Jr., to Research Triangle Institute. Fluid separator apparatus and method. 4,636,315, 1-13-87, Cl. 210-656.000.

Allen, Curtis M.; and Smith, Larry J., to Hewlett-Packard Company. Dual channel frequency synthesizer system. 4,648,060, 3-3-87, Cl. 364-851.000.

Allen, Danny H., to Burlington Industries, Inc. Fringe reduction mechanism. 4,699,182, 10-13-87, Cl. 139-429.000.

Allen, Danny T.; and Allen, Mark S. Method for repairing and reinforcing a plastic tote. 4,692,195, 9-8-87, Cl. 156-98.000.

Allen, David; and Winey, Calvin, to Advanced Color Technology, Inc. Method and apparatus for controlling sheet material in an ink jet printer. 4,703,329, 10-27-87, Cl. 346-24.000.

Allen, David; and Cleary, Arthur, to Advanced Color Technology, Inc. Control system and method for handling sheet materials. 4,707,704, 11-17-87, Cl. 346-24.000.

Allen, David A.; and Miilu, John H., to Huffy Corporation. Singular packaging system for basketball rim, backboard and pole. 4,653,646, 3-31-87, Cl. 206-579.000.

Allen, David A.; and Dickman, Robert L., to Huffy Corporation. Convertible tricycle. 4,657,270, 4-14-87, Cl. 280-7.100.

Allen, David A., to Xerox Corporation. Waterfast ink jet compositions. 4,664,708, 5-12-87, Cl. 106-22.000.

Allen, David O., to Allen Tool Company, Inc. Foil-lid combination for containers. 4,697,719, 10-6-87, Cl. 220-258.000.

Allen, David R. Hay rake assembly. 4,685,282, 8-11-87, Cl. 56-377.000.

Allen, Deborah L., to General Electric Company. Silicone-modified polyethermides. 4,663,378, 5-5-87, Cl. 524-267.000.

Allen, Derek E.; Woodward, Malcolm C.; and Cleaver, Brian W., to Lucas Industries public limited company. Manufacture of armature winding conductors. 4,670,971, 6-9-87, Cl. 29-[illegible]7.000.

Allen, Donald L. Single shot falling block action. 4,648,190, 3-10-87, Cl. 42-23.000.

Allen, Donald P.: *See—*
  Karagoz, Berch Y.; Moore, Lyman T.; Rua, Joseph M.; Travers, Mark D.; and Allen, Donald P., 4,689,799, Cl. 373-93.000.

Allen, Douglas, Jr.; and Flam, Eric, to C. R. Bard, Inc. Physiologically compatible adhesive composition. 4,650,817, 3-17-87, Cl. 523-105.000.

Allen Engineering Corporation: *See—*
  Allen, J. Dewayne, 4,659,054, Cl. 249-7.000.
  Allen, J. Dewayne, 4,676,690, Cl. 404-110.000.
  Allen, J. Dewayne, 4,685,826, Cl. 404-114.000.
  Allen, J. Dewayne, 4,697,951, Cl. 404-110.000.
  Allen, J. Dewayne, 4,702,640, Cl. 404-75.000.
  Allen, J. Dewayne, 4,710,054, Cl. 404-110.000.

Allen, Ernest R. Adjustable door jamb leveler. 4,635,414, 1-13-87, Cl. 52-126.100.

Allen, Errol V.: *See—*
  Reich, Frederich R.; and Allen, Errol V., 4,651,568, Cl. 73-612.000.

Allen Fruit Co., Inc.: *See—*
  Harper, Chester H., 4,683,706, Cl. 53-485.000.

Allen, George M.: *See—*
  Schmitt, Thomas M.; Allen, George M.; and Davis, Pauls, 4,647,705, Cl. 568-868.000.

Allen, Gerald J.: *See—*
  Edwards, John C.; Allen, Gerald J.; Martin, John K.; and Summers, Malcolm R., 4,666,863, Cl. 436-514.000.

Allen, Gordon H., to Motorola, Inc. Pulse doubler circuit with complementary pulse inputs. 4,653,079, 3-24-87, Cl. 377-47.000.

Allen Group Inc., The: *See—*
  Scourtes, George, 4,635,472, Cl. 73-117.000.

Allen, Harvey G., to Westinghouse Electric Corp. Low net positive suction head pumps. 4,678,405, 7-7-87, Cl. 417-245.000.

Allen, Henry E.: *See—*
  Whiteford, Carlton, 4,688,851, Cl. 297-313.000.

Allen, Henry V., to Wystron, Inc. Capacitive transducer and method. 4,636,714, 1-13-87, Cl. 324-60.0CD.

Allen, Henry V.: *See—*
  Knutti, James W.; Allen, Henry V.; Petersen, Kurt E.; and Kowalski, Carl R., 4,680,606, Cl. 357-26.000.

Allen, Herbert, to Hallen Company. Cork-extracting apparatus. 4,703,673, 11-3-87, Cl. 81-3.290.

Allen, Hubert D.: *See—*
  Barton, James W.; and Allen, Hubert D., 4,678,042, Cl. 172-15.000.

Allen Industries, Inc.: *See—*
  Lohr, Thomas E., 4,642,153, Cl. 156-296.000.

Allen, J. Dewayne. Vibratory screed including a spreading device for leveling and distributing plastic concrete in front of the screed. 4,648,741, 3-10-87, Cl. 404-119.000.

Allen, J. Dewayne, to Allen Engineering Corporation. Lightweight concrete form having a detachable equipment rail. 4,659,054, 4-21-87, Cl. 249-7.000.

Allen, J. Dewayne, to Allen Engineering Corporation. Material spreader system. 4,676,690, 6-30-87, Cl. 404-110.000.

Allen, J. Dewayne, to Allen Engineering Corporation. Vibratory screed including a laterally displaceable oscillating strike-off. 4,685,826, 8-11-87, Cl. 404-114.000.

Allen, J. Dewayne, to Allen Engineering Corporation. Material spreader system. 4,697,951, 10-6-87, Cl. 404-110.000.

Allen, J. Dewayne, to Allen Engineering Corporation. Rotating tube concrete finisher. 4,702,640, 10-27-87, Cl. 404-75.000.

Allen, J. Dewayne, to Allen Engineering Corporation. Material spreader system. 4,710,054, 12-1-87, Cl. 404-110.000.

Allen, James A.: *See—*
  Lancaster, Gerald M.; and Allen, James A., 4,678,713, Cl. 428-421.000.
  McKinney, Osborne K.; Allen, James A.; and Flores, David P., 4,678,836, Cl. 525-221.000.
  Tabor, Ricky L.; and Allen, James A., 4,684,576, Cl. 428-441.000.

Allen, James C.; Bartlett, Wendy B.; Johnson, Hoke S.; Fisher, Steven D.; Larson, Richard O.; and Peck, John C., to Tandem Computers Incorporated. Multiprocessor multisystem communications network. 4,663,706, 5-5-87, Cl. 364-200.000.

Allen, James C.; Bartlett, Wendy B.; Johnson, Hoke S., III; Fisher, Steven D.; Larson, Richard O.; and Peck, John C., to Tandem Computers Incorporated. Multiprocessor multisystem communications network. 4,667,287, 5-19-87, Cl. 364-200.000.

Allen, James C. Walking beam pump having adjustable crank pin. 4,681,515, 7-21-87, Cl. 417-218.000.

Allen, James D.; and McVay, David M., to Eastman Kodak Company. Toner concentration monitor. 4,706,032, 11-10-87, Cl. 328-1.000.

Allen, James D.: *See—*
  Deysarkar, Asoke K.; and Allen, James D., 4,648,263, Cl. 73-59.000.

Allen, Jerrold L., to NCR Corporation. Data handling system for handling data transfers between a cache memory and a main memory. 4,646,237, 2-24-87, Cl. 364-200.000.

Allen, Jimmy D.; Cobb, Michael E.; Hillman, Robert S.; Mungall, Dennis R.; Ostoich, Vladimir E.; and Stroy, Gary H., to Biotrack, Inc. Integrated drug dosage form and metering system. 4,712,460, 12-15-87, Cl. 83-208.000.

Allen, John. Winch system. 4,666,127, 5-19-87, Cl. 254-281.000.

Allen, John B. Carrier tracking system. 4,666,103, 5-19-87, Cl. 244-3.110.

Allen, John B.: *See—*
  Florence, James M.; and Allen, John B., 4,672,439, Cl. 358-113.000.

Allen, John E.; Glover, John D.; and Shepherd, Clayton C., Jr., to United States of America, Air Force. Thermal vacuum heater array apparatus. 4,713,647, 12-15-87, Cl. 338-316.000.

Allen, John K., to RCA Corporation. Video display system with stabilized background level. 4,660,083, 4-21-87, Cl. 358-168.000.

Allen, John L., Jr.; and Grandstaff, Teddy H., to Du Pont de Nemours, E. I., and Company. Method for determining level of finish and control thereof. 4,660,147, 4-21-87, Cl. 364-468.000.

Allen, Joseph C.: *See—*
  Tanner, Harley L., III; and Allen, Joseph C., 4,639,596, Cl. 250-259.000.

Allen, Keith: *See—*
  Keetley, Reginald G.; and Allen, Keith, 4,690,614, Cl. 416-43.000.

Allen, Kenneth C., Jr.; and Findlay, Robert H., to Parker-Hannifin Corporation. Electrically controlled starter air valve. 4,702,273, 10-27-87, Cl. 137-487.500.

Allen, Kenneth D.: *See—*
  Brogdon, James W.; Allen, Kenneth D.; Barton, John S.; and Hicks, Raymond J., 4,640,153, Cl. 74-789.000.

Allen, Larry M., to Chemex Pharmaceuticals. Lipoxygenase inhibitors. 4,708,964, 11-24-87, Cl. 514-533.000.

Allen, Leslie J.; Cherian, Gabe; and Diaz, Stephen H., to Raychem Corporation. Chip mounting device. 4,664,309, 5-12-87, Cl. 228-180.200.

Allen, Leslie J.; Cherian, Gabe; and Diaz, Stephen H., to Raychem Corporation. Chip carrier mounting device. 4,705,205, 11-10-87, Cl. 228-180.200.

Allen, Linus S.; Mills, William R., Jr.; and Stromswold, David C., to Mobil Oil Corporation. Method and system for neutron lifetime logging. 4,692,617, 9-8-87, Cl. 250-270.000.

Allen, Louis. Container closure device. 4,693,414, 9-15-87, Cl. 229-125.020.

Allen, Louis. Gripper for container caps. 4,702,129, 10-27-87, Cl. 81-3.090.

Allen, Loy F., to Allen and Bennett, Inc. Flexible sucker rod unit. 4,640,349, 2-3-87, Cl. 166-68.500.

Allen, Mark L. Door hinge with pin member for engaging wall structure. 4,656,691, 4-14-87, Cl. 16-251.000.

Allen, Mark L. High security cylinder lock. 4,679,418, 7-14-87, Cl. 70-380.000.

Allen, Mark L. Handcuffs. 4,697,441, 10-6-87, Cl. 70-16.000.

Allen, Mark L. Bicycle lock. 4,708,004, 11-24-87, Cl. 70-226.000.

Allen, Mark S.: *See—*
  Allen, Danny T.; and Allen, Mark S., 4,692,195, Cl. 156-98.000.

Allen-Morrison, Inc.: *See—*
  Callahan, David T.; and Dobyns, David W., 4,693,026, Cl. 40-576.000.

Allen Organ Company: *See—*
  Greenwood, Walter L., 4,696,215, Cl. 84-1.030.

Allen, Peter, to Danby Pty. Ltd. Sewer renovation system. 4,678,370, 7-7-87, Cl. 405-154.000.

Allen, Peter H. G.; and Cooper, Paul, to National Research Development Corporation. Heat exchanger with electrohydrodynamic effect. 4,651,806, 3-24-87, Cl. 165-1.000.

Allen, Peter N.: *See—*
  Bowes, Donald; Allen, Peter N.; and Blake, William, 4,661,958, Cl. 372-34.000.

Allen, Philip M.: *See—*
  Hammerle, Frederick A.; Allen, Philip M.; Geddes, Richard; and Malone, Gary R., 4,706,868, Cl. 227-149.000.

Allen, Phillip R.; and Romig, Charles A., to Dow Corning Corporation. Room-temperature-curing silicone sealants. 4,652,624, 3-24-87, Cl. 528-17.000.

Allen, Raymond A. Immersion type water filter. 4,657,672, 4-14-87, Cl. 210-94.000.

Allen, Richard A. Universal folding carrier. 4,709,840, 12-1-87, Cl. 224-314.000.

Allen, Richard B.; and Avakian, Roger W., to General Electric Company. Foamable thermoplastic compositions, foamed articles and foaming method based on pre-compounded nucleating agent-resin concentrate. 4,683,247, 7-28-87, Cl. 521-91.000.

Allen, Richard C.: *See—*

Shutske, Gregory M.; Setescak, Linda L.; and Allen, Richard C., 4,673,746, Cl. 546-272.000.

Allen, Robert E. Adjustable gun pad for a shooting garment. 4,642,815, 2-17-87, Cl. 2-2.000.

Allen, Robert E. Pocket enclosure for recoil pad. 4,669,125, 6-2-87, Cl. 2-2.000.

Allen, Robert E., Jr. Dual chambered syringe. 4,655,747, 4-7-87, Cl. 604-89.000.

Allen, Roger F.; and Campbell, Colin I., to Camal Ltd. Parachute. 4,662,589, 5-5-87, Cl. 244-143.000.

Allen, Ronald; and Chen, Tu, to Komag, Inc. Disk and plug. 4,634,512, 1-6-87, Cl. 204-298.000.

Allen, Ronald C.; and Sajur, Eugene V. Atmosphere controlling process for food storage. 4,710,206, 12-1-87, Cl. 55-58.000.

Allen, Sammy G., to Sewalt, Ronny. Musical baby bottle. 4,678,093, 7-7-87, Cl. 215-11.00R.

Allen, Sebree J. Space living quarters having artificial gravity environment. 4,643,375, 2-17-87, Cl. 244-159.000.

Allen, Sebree J. Aircraft emergency landing system. 4,676,457, 6-30-87, Cl. 244-17.150.

Allen, Spencer W.: *See—*

McNally, Paul F.; Allen, Spencer W.; and Cimbala, Matthew G., 4,701,839, Cl. 364-167.000.

Allen, Stephen D.; and Thompson, Michael, to Becton, Dickinson and Company. Tracers for use in assays. 4,670,406, 6-2-87, Cl. 436-500.000.

Allen, Stephen L.: *See—*

Sylling, Truman V.; and Allen, Stephen L., 4,687,505, Cl. 71-27.000.

Allen, Steven P.: *See—*

Ledzius, Robert C.; and Allen, Steven P., 4,691,124, Cl. 307-303.000.

Allen-Stevens Drum Accessories Corp.: *See—*

Greck, Eugene, 4,706,836, Cl. 220-256.000.

Allen, Thomas P. Multi-purpose collapsible hand saw. 4,637,141, 1-20-87, Cl. 30-512.000.

Allen Tool Company, Inc.: *See—*

Allen, David O., 4,697,719, Cl. 220-258.000.

Allen, William M.; Sansom, Bernard F.; Wilson, Alan D.; Prosser, Havard J.; and Groffman, David M., to National Research Development Corp. Sustained release composition. 4,661,339, 4-28-87, Cl. 424-486.000.

Allenbach, Udo: *See—*

Lenthe, Manfred; Allenbach, Udo; Buttner, Gerhard; and Christmann, Karl-Friedrich, 4,647,676, Cl. 549-462.000.

Allenbaugh, Howard M., to M.A.G. Engineering & Mfg. Co., Inc. Interlocking protective door shield. 4,673,204, 6-16-87, Cl. 292-346.000.

Allendorfer, Wolfgang: *See—*

Metzner, Klaus; Westphal, Detlef; Allendorfer, Wolfgang; Hahnel, Reinhard; and Polaschegg, Hans-Dietrich, 4,662,208, Cl. 73-1.00R.

Allenson, Stephan J.; and Wagner, Stephen D., to Nalco Chemical Company. Bimodal cationics for water clarification. 4,699,951, 10-13-87, Cl. 525-194.000.

Allenspach, Norbert: *See—*

Durst, Felix, 4,691,764, Cl. 165-68.000.

Allentown Caging Equipment Co., Inc.: *See—*

Murray, Dale R.; and Coiro, Michael A., Sr., 4,699,088, Cl. 119-18.000.

Allergan Pharmaceuticals, Inc.: *See—*

Huth, Stanley W.; Lam, Sam W.; and Kıral, Richard M., 4,670,178, Cl. 252-95.000.

Allers, Tyark; and Blasczyk, Gotthardt, to Krupp Polysius AG. Methods and apparatus for two-stage crushing. 4,690,335, 9-1-87, Cl. 241-24.000.

Allert, Kurt, to Kurt Allert GmbH & Co. KG. Hose clamp with tightener. 4,677,712, 7-7-87, Cl. 24-274.00R.

Allert, Kurt. Clamping shell. 4,708,512, 11-24-87, Cl. 403-344.000.

Allert, Kurt. Link chain. 4,710,153, 12-1-87, Cl. 474-211.000.

Allerton, George L.; and Otto, Willard G., to Lehighton Electronics, Inc. Electrical contact assembly. 4,667,154, 5-19-87, Cl. 324-158.00P.

Alley, Lewis F.: *See—*

Powers, Richard G.; Schack, Warren R.; Alley, Lewis F.; and Anderson, James E., 4,700,899, Cl. 241-30.000.

Powers, Richard G.; Zeets, Joseph S.; Currier, Joseph G.; and Alley, Lewis F., 4,708,296, Cl. 241-82.200.

White, James E.; Alley, Lewis F.; Anderson, James E.; and Birdsell, Jackie D., 4,637,936, Cl. 426-523.000.

Alley, Robert P.; Bicknell, William H.; and Routh, Kevin C., to General Electric Company. Energy management/dimming system and control. 4,663,569, 5-5-87, Cl. 315-175.000.

Alley, Robert P., to General Electric Company. Fluorescent lamp dimming adaptor kit. 4,682,083, 7-21-87, Cl. 315-307.000.

Alley, Robert P.; and Bicknell, William H., to General Electric Company. Wall box fluorescent lamp dimmer. 4,701,680, 10-20-87, Cl. 315-287.000.

Allezard, Roland; and Degouy, Jean-Luc, to U.S. Philips Corporation. Monopulse FM-CW radar system with improved axis stability. 4,656,480, 4-7-87, Cl. 342-151.000.

Allflex International Limited: *See—*

Cohr, Lindsay W. J., 4,633,606, Cl. 40-301.000.

Jefferies, Keith W.; and Long, Murray D., 4,714,048, Cl. 119-14.080.

Scott, Michael J., 4,691,458, Cl. 40-300.000.

Wassilieff, Alexander, 4,653,208, Cl. 40-301.000.

Allgaier, Jurgen; Ganter, Wolfgang; and Flaig, Hans, to Junghans Uhren GmbH. Electroptical detector for determining the position of the time display mechanism of a timepiece. 4,645,357, 2-24-87, Cl. 368-187.000.

Allgaier, Jurgen; and Ganter, Wolfgang, to Junghans Uhren GmbH. Radio controlled timepiece. 4,650,344, 3-17-87, Cl. 368-47.000.

Allgaier, Karl-Heinz: *See—*

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Allgaier, Wayne F.; Tyjenski, Gerard M.; and Di Natale, Claude A., to General Motors Corporation. Rotary molding machine. 4,684,432, 8-4-87, Cl. 156-500.000.

Allgood, Fred A., to Dexide, Inc. Irrigator-evacuator control for surgical procedures. 4,668,215, 5-26-87, Cl. 604-30.000.

Allgood, Robert N.: *See—*

Miller, James A., Sr.; Allgood, Robert N.; and Ulmer, Richard W., 4,659,944, Cl. 307-350.000.

Alliance Enamelsteel Corporation S.A.: *See—*

Palmans, Jos, 4,697,301, Cl. 15-426.000.

Alliance Machine Company, The: *See—*

Scott, Edward S., 4,653,653, Cl. 212-149.000.

Alliance Pentagon A/S: *See—*

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Alliance Research Corporation: *See—*

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Allied Colloids Limited: *See—*

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Allen, Anthony P.; Forsmo, Sten; and Langley, John G., 4,684,549, Cl. 427-221.000.

Clarke, John B.; and Firth, John F., 4,639,395, Cl. 428-341.000.

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Farrar, David; and Dymond, Brian, 4,675,119, Cl. 252-8.514.

Flesher, Peter; and Farrar, David, 4,673,704, Cl. 524-519.000.

Flesher, Peter; Clarke, John; and Marshall, David, 4,690,971, Cl. 524-555.000.

Flesher, Peter; Farrar, David; Hawe, Malcolm; and Langley, John, 4,702,844, Cl. 210-733.000.

Hawe, Malcolm; Marshall, David; and Walker, John R., 4,673,520, Cl. 252-70.000.

Symes, Kenneth C.; Langley, John; and Mistry, Kishor K., 4,705,825, Cl. 524-732.000.

Walker, John R.; and Stockwell, John R., 4,656,205, Cl. 523-201.000.

Whittaker, Tony, 4,705,640, Cl. 210-733.000.

Allied Corporation: *See—*

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Aina, Olaleye A.; and Lakhani, Amir A., 4,662,060, Cl. 29-571.000.

Anderson, Philip M.; Reich, Ronald K.; and Ujazdowski, Richard C., 4,651,136, Cl. 340-572.000.

Anderson, Philip M.; Ujazdowski, Richard C.; and Urbanski, Jeffrey C., 4,675,655, Cl. 340-505.000.

Anderson, Philip M.; and Torre, John J., 4,675,658, Cl. 340-551.000.

Anderson, Philip M.; and Reich, Ronald K., 4,685,234, Cl. 40-625.000.

Anderson, Philip M.; Ujazdowski, Richard C.; and Urbanski, Jeffrey C., 4,686,515, Cl. 340-572.000.

Anderson, Philip M., III; and Urbanski, Jeffrey C., 4,644,310, Cl. 335-215.000.

Anderson, Philip M., III; and Urbanski, Jeffrey C., 4,647,917, Cl. 340-572.000.

Anderson, Philip M., III; and Urbanski, Jeffrey C., 4,710,709, Cl. 324-207.000.

Andrews, Rodney R.; Ferguson, John H.; Kaiser, Frederick A.; and Coman, William E., 4,701,068, Cl. 403-359.000.

Appling, James; and Gongwer, Calvin A., 4,709,358, Cl. 367-106.000.

Bach, Lloyd G., 4,665,701, Cl. 60-547.100.

Bartholomew, Roy E.; and Sebo, Milan J., 4,660,894, Cl. 303-54.000.

Basconi, Paul D., 4,644,099, Cl. 174-117.00F.

Basu, Rajat S.; Wilson, David P.; Lund, Earl A. E.; Pham, Hang T.; and Bonner, John K., 4,655,956, Cl. 252-153.000.

Bauer, Anton E.; Billmann, Gerhard; Rathke, Jorg; Schimanek, Hans-Joachim; Schrott, Georg W.; and Wodok, Hans, 4,696,537, Cl. 350-96.200.

Baughman, Ray H.; Elsenbaumer, Ronald L.; Iqbal, Zafar; Miller, Granville G.; and Eckhardt, Helmut, 4,646,066, Cl. 340-540.000.

Becker, Larry W.; and Shultes, Benjamin, III, 4,650,827, Cl. 524-801.000.

Bedell, John R.; Hemmat, Naim S.; and Jeges, Paul, 4,644,999, Cl. 764-463.000.

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Bonfield, John H., 4,680,394, Cl. 544-193.000.

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Bose, Debasis; Datta, Amitava; DeCristofaro, Nicholas J.; and Henschel, Claude, 4,650,725, Cl. 428-668.000.

Bose, Debasis; and Liebermann, Howard H., 4,654,275, Cl. 428-606.000.

Bose, Debasis; and Freilich, Alfred, 4,658,537, Cl. 228-263.150.

Bose, Debasis; Datta, Amitava; DeCristofaro, Nicholas J.; and Henschel, Claude, 4,701,356, Cl. 427-423.000.

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Bourdon, Normand C., 4,669,797, Cl. 439-353.000.

Bourgeault, Leo B., 4,635,181, Cl. 363-132.000.

Boyle, William J., Jr.; Mares, Frank; and Wallo, Andrea M., 4,661,615, Cl. 558-363.000.

Boyle, William J., Jr.; Mares, Frank; and Corbo, Andrea M., 4,710,545, Cl. 525-340.000.

Brown, Arthur K., Jr., 4,685,297, Cl. 60-547.100.

Brown, Arthur K., Jr., 4,704,867, Cl. 60-554.000.

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Cage, Jerry L., 4,712,841, Cl. 303-92.000.

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Cordova, David S.; Rowan, Hugh H.; and Lin, Leroy C., 4,687,796, Cl. 523-466.000.

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Dahlstrom, David K.; Fife, Merrill E.; and Judy, Charles R., 4,709,361, Cl. 367-165.000.

Das, Sajal; and Prevorsek, Dusan C., 4,650,838, Cl. 525-504.000.

Das, Sajal; and Prevorsek, Dusan C., 4,650,839, Cl. 525-504.000.

Das, Santosh K.; Raybould, Derek; Bye, Richard L., Jr.; and Chang, Chin-Fong, 4,675,157, Cl. 420-405.000.

DeCarlo, Frank S.; and Rosen, Frank L., 4,693,114, Cl. 73-178.00R.

Deem, Brian C.; and Kemp, Jack A., 4,638,900, Cl. 192-85.0CA.

Devensky, Walter L.; and Martin, Wayne H., 4,647,926, Cl. 340-947.000.

DiPaola, Donald A.; Kremer, Robert M.; and Gallagher, Kevin C., 4,674,801, Cl. 297-472.000.

Dube, Carlos M.; and Devensky, Walter L., 4,654,817, Cl. 364-900.000.

Dunkle, Steven R.; and Mason, Charles D., 4,659,767, Cl. 524-504.000.

Dunkle, Steven R.; and Haylock, John C., 4,687,795, Cl. 523-436.000.

Eastman, James M., 4,640,093, Cl. 60-39.281.

Eastman, James M., 4,651,621, Cl. 91-361.000.

Eddy, William C., Jr., 4,682,675, Cl. 188-299.000.

Edwards, Hugh A.; and Patchell, John W., 4,660,007, Cl. 333-237.000.

Elsenbaumer, Ronald L.; Miller, Granville G.; and Toth, James E., 4,640,006, Cl. 29-623.100.

Elsenbaumer, Ronald L.; Ivory, Dawn M.; Iqbal, Zafar; and Baughman, R. Henry, 4,661,383, Cl. 427-302.000.

Eros, Donald A., 4,659,556, Cl. 423-522.000.

Eslinger, Ralph G.; Deem, Brian C.; and Fedor, Gregory R., 4,652,216, Cl. 417-252.000.

Fanelli, Anthony J.; Maeland, Arnulf J.; Armbrust, Robert W.; and Rak, George, 4,675,465, Cl. 585-654.000.

Fannin, Richard C., 4,657,311, Cl. 303-71.000.

Farley, Radcliffe W.; Vaughn, Edward A.; Rodman, Clarke A.; and Homonoff, Edward C., 4,663,225, Cl. 428-290.000.

Fathimulla, Mohammed A., 4,665,374, Cl. 333-196.000.

Ficken, William H.; Gonska, Josephine; and Gong, Frank, 4,703,654, Cl. 73-504.000.

Figiel, Francis J.; and Osterman, Harry F., 4,636,320, Cl. 210-801.000.

Fish, Gordon E.; Hasegawa, Ryusuke; and Buff, Ernest D., 4,634,462, Cl. 65-29.000.

Frantom, Richard L.; Seitz, William R.; and Datwyler, Walter F., Jr., 4,655,312, Cl. 180-268.000.

Frear, David L., 4,645,282, Cl. 339-45.00M.

Fulmer, Keith H., 4,651,782, Cl. 138-31.000.

Fulmer, Keith H., 4,660,460, Cl. 91-376.00R.

Fulmer, Keith H.; and Peebles, Arthur K., 4,667,471, Cl. 60-545.000.

Fulmer, Keith H., 4,674,541, Cl. 138-31.000.

Fulmer, Keith H.; Peebles, Arthur K.; and Steininger, Hugh D., 4,681,196, Cl. 192-3.00H.

Fulmer, Keith H.; and Baker, Donald J., 4,685,491, Cl. 138-31.000.

Fulmer, Keith H., 4,693,276, Cl. 138-31.000.

Gallusser, David O.; and Frear, David L., 4,641,811, Cl. 249-122.000.

Gallusser, David O.; and Punako, Stephen, 4,641,899, Cl. 339-59.00M.

Gallusser, David O.; and Punako, Stephen, 4,666,222, Cl. 339-14.00R.

Gallusser, David O.; Brush, Robert W., Sr.; and MacAvoy, David W., 4,678,260, Cl. 439-607.000.

Gefri, Fred J.; Masilamani, Divakaran; and Murthy, Andiappan K. S., 4,704,480, Cl. 568-396.000.

Green, Norman, 4,709,238, Cl. 342-427.000.

Greene, Paul L.; and Appling, James, 4,636,998, Cl. 367-154.000.

Gualtieri, Devlin M.; and Lai, Shui T., 4,713,577, Cl. 313-468.000.

Hale, Charles S.; Matzkin-Bridger, Andrew; and Morse, Ronald W., 4,690,487, Cl. 350-96.210.

Hanaoka, Katsumi; Yamamoto, Yasuo; Arii, Kazuhiro; and Tanaka, Kazuhiro, 4,646,803, Cl. 150-52.00R.

Harpell, Gary A.; Palley, Igor; Kavesh, Sheldon; and Prevorsek, Dusan C., 4,650,710, Cl. 428-263.000.

Harpell, Gary A.; Palley, Igor; and Prevorsek, Dusan C., 4,681,792, Cl. 428-102.000.

Harrison, David M.; Gentili, Robert P.; and Bellucci, George N., 4,683,922, Cl. 141-9.000.

Harter, Donald J.; and Yeh, Jen-Jye, 4,660,205, Cl. 372-18.000.

Hathaway, Robert E.; and Norin, Edward M., 4,650,130, Cl. 241-101.400.

Heller, Donald F., 4,713,824, Cl. 372-99.000.

Hemmati, Hamid, 4,664,057, Cl. 118-50.100.

Hillis, Frank M.; and Brush, Robert W., Sr., 4,655,532, Cl. 339-143.00R.

Hoffman, Fred W.; and Reitz, Richard J., 4,646,889, Cl. 192-70.120.

Homonoff, Edward C.; Rodman, Clarke A.; and Rutledge, Broaddus L., II, 4,686,136, Cl. 428-286.000.

Hutter, Harold G.; and Tarrant, Dennis E., 4,662,603, Cl. 339-177.00R.

Hutter, Harold G.; and Royce, David H., 4,664,464, Cl. 339-103.00R.

Hutter, Harold G., 4,684,201, Cl. 439-585.000.

Jakubzick, Marcelo E., 4,654,811, Cl. 364-572.000.

James, Leonard E.; Fisher, William B.; Crescentini, Lamberto; and Browning, Joseph M., 4,692,321, Cl. 423-404.000.

James, Robert; and Malka, Jacob H., 4,703,307, Cl. 340-347.0SY.

Jen, Kwan-Yue A.; and Elsenbaumer, Ronald L., 4,711,742, Cl. 252-500.000.

Kavesh, Sheldon; and Prevorsek, Dusan C., 4,663,101, Cl. 264-178.00F.

Kelly, Robert J.; and Cusick, Danny R., 4,672,567, Cl. 364-572.000.

Kerr, Leo A., 4,635,221, Cl. 364-821.000.

Kerr, Leo A., 4,648,098, Cl. 375-47.000.

Kerr, Leo A., 4,648,099, Cl. 375-47.000.

Kerr, Leo A., 4,675,839, Cl. 364-821.000.

Kim, Jung T., 4,716,059, Cl. 427-443.100.

Knapp, Anthony W.; and Werth, Dee A., 4,639,064, Cl. 339-89.00M.

Knight, David J., 4,673,222, Cl. 303-9.000.

Koening, James P.; Knight, David J.; Szudy, James E.; Bartholomew, Roy E.; and Wurst, William R., 4,714,483, Cl. 55-163.000.

Kosarski, Raymond, Jr.; and Jackson, Robert W., 4,679,397, Cl. 60-562.000.

Kritchevsky, Gina R.; Gregor, John A.; Gruendig, Manfred W.; Sellers, Gregory J.; and Liss, Barbara, 4,678,699, Cl. 428-175.000.

Krull, Ulrich J.; and Thompson, Michael, 4,637,861, Cl. 204-1.00T.

Kwon, Young D.; Kavesh, Sheldon; and Prevorsek, Dusan C., 4,713,290, Cl. 428-364.000.

Lakhani, Amir A.; and Olver, Laurence C., 4,679,311, Cl. 29-579.000.

Lang, Roger J., 4,648,677, Cl. 339-99.00R.

Lapin, Stephen C., 4,654,379, Cl. 522-15.000.

Latvala, Bruce E.; and Heidmann, Kurt R., 4,651,851, Cl. 188-218.0XL.

Laxmanan, Venkatasubramanian; Das, Santosh K.; and Chang, Chin-Fong, 4,649,983, Cl. 164-154.000.

Lenoble, Bert I.; and Krehely, Richard M., 4,674,702, Cl. 242-195.000.

Lester, George R.; Gonczy, Stephen T.; Welsh, Lawrence B.; and Stranford, Gerald T., 4,701,316, Cl. 423-344.000.

Levine, Samuel W., 4,666,796, Cl. 428-670.000.

Levinson, Samuel; Libowitz, George G.; and Maeland, Arnulf J., 4,659,554, Cl. 423-249.000.

Lewis, Richard J., 4,637,596, Cl. 267-160.000.

Li, Hsin L.; and Prevorsek, Dusan C., 4,695,240, Cl. 425-207.000.

Liebermann, Howard H., 4,664,176, Cl. 164-463.000.

Liebermann, Howard H., 4,676,298, Cl. 164-463.000.

Lorenz, William, 4,674,901, Cl. 374-169.000.

Losser, Gerald L.; and Weaver, Richard D., 4,712,767, Cl. 251-129.140.
Malka, Jacob H.; and Thurakal, Philip J., 4,677,581, Cl. 364-571.000.
Malka, Jacob H.; and Osetec, Marc, 4,680,726, Cl. 364-721.000.
Mani, Krishnamurthy N.; and Chlanda, Frederick P., 4,636,289, Cl. 204-182.400.
Margolin, Mark, 4,643,520, Cl. 350-96.200.
Margolin, Mark; Moore, James E.; and Grois, Igor, 4,684,205, Cl. 350-96.210.
Margolin, Mark; Moore, James E.; and Grois, Igor, 4,687,288, Cl. 350-96.200.
Marmillion, David J., 4,636,020, Cl. 339-59.00M.
Marsh, Gary B.; Fanelli, Anthony J.; Armor, John N.; and Zambri, Patrick M., 4,649,037, Cl. 423-338.000.
Marsh, Gary B.; Fanelli, Anthony J.; Armor, John N.; and Zambri, Patrick M., 4,713,233, Cl. 423-608.000.
Mas, Joseph, 4,649,639, Cl. 29-605.000.
Masilamani, Divakaran; and Manahan, Edward H., 4,647,686, Cl. 558-315.000.
Masilamani, Divakaran; Hammond, George S.; and Murthy, Andiappan K. S., 4,709,101, Cl. 568-697.000.
Mathew, Chempolil T.; and Ulmer, Harry E., 4,707,294, Cl. 252-182.000.
McGroary, Francis X., 4,684,902, Cl. 331-38.000.
Messersmith, William K.; and Fulmer, Keith H., 4,660,691, Cl. 192-3.00H.
Messersmith, William K., 4,666,021, Cl. 188-331.000.
Meyer, Christopher D., 4,702,491, Cl. 280-801.000.
Mikolaicyk, John H.; and Krantz, Leonard A., Jr., 4,639,076, Cl. 350-96.200.
Miller, Robert A.; and Marach, David R., 4,685,028, Cl. 361-334.000.
Mittendorf, Gerald C.; and Sollman, Francis G., 4,644,744, Cl. 60-39.150.
Moeller, Alvin W.; Willey, Robert E.; and Sinsky, Allen I., 4,652,880, Cl. 342-373.000.
Mohn, Walter R., 4,708,194, Cl. 164-463.000
Morgan, Thomas R., 4,680,169, Cl. 423-53.000.
Morris, Robert C.; Long, Margaret N.; Chin, Timothy C.; and Heller, Donald F., 4,713,820, Cl. 372-41.000.
Munk, Stephen A.; and Malloy, Thomas P., 4,699,812, Cl. 427-393.400.
Musolff, Frank; and Sillmann, Volker, 4,673,236, Cl. 439-609.000.
Myers, Lawrence R., 4,649,802, Cl. 91-376.00R.
Myers, Lawrence R., 4,672,883, Cl. 91-369.00A.
Myers, Lawrence R.; Bach, Lloyd G.; and Gaiser, Robert F., 4,679,864, Cl. 303-6.00C.
Myers, Lawrence R.; and Gaiser, Robert F., 4,685,299, Cl. 60-547.100.
Myers, Martin G.; and Barrett, William A., 4,705,486, Cl. 445-17.000.
Nagy, Monte L., Jr.; and Cole, Charles J., 4,695,497, Cl. 428-96.000.
Nalewajek, David; Kim, Jung T.; and McCurry, Lynn E., 4,695,522, Cl. 429-206.000.
Nash, Donald R., 4,641,627, Cl. 123-651.000.
Nishiyama, Masao; and Hirano, Yasuo, 4,691,004, Cl. 528-323.000.
Nyilas, Emery; and Chiu, Tin-Ho, 4,670,286, Cl. 427-2.000.
Ohtsuki, Tomonari; Ishii, Masaru; and Takeda, Mitsuru, 4,699,458, Cl. 350-96.210.
Onal, Isik, 4,650,782, Cl. 502-339.000.
Oxenrider, Bryce C., 4,647,651, Cl. 528-296.000.
Patel, Kundanbhai M.; Bekker, Alex Y.; Murthy, Andiappan K. S.; and Gefri, Fredrick J., 4,675,097, Cl. 208-112.000.
Pelczarski, Walter J., 4,648,679, Cl. 339-99.00R.
Peterson, Arnold D., 4,636,674, Cl. 310-155.000.
Peterson, Weldon H.; and Morrison, Kenneth G., 4,648,830, Cl. 425-464.000.
Pickett, David A., 4,703,950, Cl. 280-806.000.
Pitel, Ira J., 4,641,232, Cl. 363-71.000.
Pitel, Ira J., 4,661,897, Cl. 363-17.000.
Plaot, Michael, 4,690,485, Cl. 350-6.500.
Portolese, Larry A.; and Leathers, Thomas M., 4,691,730, Cl. 137-101.000.
Preziosi, Anthony F.; Patel, Gordhanbhai N.; Denkewalter, Robert G.; and Baughman, Ray H., 4,646,674, Cl. 116-216.000.
Preziosi, Anthony F.; Patel, Gordhanbhai N.; Denkewalter, Robert G.; and Baughman, Ray H., 4,699,997, Cl. 560-166.000.
Pronovost, Paul F., 4,645,295, Cl. 350-96.200.
Pugh, James G.; Johnson, Duane R.; and Bartholomew, Roy E., 4,691,968, Cl. 303-52.000.
Punako, Stephen; and MacAvoy, David W., 4,648,670, Cl. 339-89.00R.
Punako, Stephen; Gallusser, David O.; and Williams, Warren R., Jr., 4,682,832, Cl. 439-589.000.
Ratchford, Lloyd G., 4,695,109, Cl. 439-155.000.
Reichardt, Manfred; and Schutzle, Gunter, 4,639,053, Cl. 339-14.00R.
Reichardt, Manfred, 4,668,033, Cl. 339-17.0LC.
Reichardt, Manfred, 4,676,565, Cl. 439-79.000.
Reichardt, Manfred; and Loss, Rolf D., 4,678,262, Cl. 439-857.000.
Reichardt, Manfred; and Schutzle, Gunter, 4,684,197, Cl. 439-404.000.
Reichardt, Manfred, 4,688,867, Cl. 439-83.000.
Richman, Jay L., 4,685,081, Cl. 365-1.000.
Riesco, Luis A., 4,672,521, Cl. 363-41.000.
Roberts, William J., 4,706,151, Cl. 361-6.000.
Romstadt, Douglas J.; and Seitz, William R., 4,694,145, Cl. 219-497.000.
Rossigno, Louis P.; and Fulmer, Keith H., 4,665,800, Cl. 91-376.00R.
Runkle, Dean E., 4,636,180, Cl. 464-120.000.
Runkle, Dean E.; and Gaiser, Robert F., 4,652,058, Cl. 303-6.00C.
Rupp, James W., 4,680,844, Cl. 29-156.40R.
Samuels, George J.; and Garman, Joseph M., 4,686,015, Cl. 204-15.000.
Samuels, George J., 4,709,122, Cl. 174-52.0FP.
Sanchez, Joseph J., Jr., 4,648,674, Cl. 339-97.00P.
Schrieber, Ricky J., 4,674,059, Cl. 364-523.000.
Schrieber, Ricky J., 4,686,632, Cl. 364-518.000.
Schrieber, Ricky J., 4,686,633, Cl. 364-523.000.
Schrieber, Ricky J., 4,686,634, Cl. 364-523.000.
Schrieber, Ricky J., 4,686,635, Cl. 364-523.000.
Schrieber, Ricky J., 4,686,636, Cl. 364-523.000.
Schrieber, Ricky J., 4,688,182, Cl. 364-523.000.
Sears, Jerome; Parfomak, Walter; and Kluss, Walter, 4,673,849, Cl. 318-272.000.
Sebo, Milan J., 4,691,737, Cl. 137-625.260.
Selim, Ahmed E.; and Weilbacker, Thomas O., 4,688,171, Cl. 364-200.000.
Shacklette, Lawrence W.; Jow, Taiguang R.; Toth, James E.; and Maxfield, MacRae, 4,668,596, Cl. 429-194.000.
Shacklette, Lawrence W.; Toth, James E.; and Elsenbaumer, Ronald L., 4,695,521, Cl. 429-194.000.
Shephard, Richard W., 4,652,772, Cl. 307-147.000.
Sherman, William E., II, 4,707,320, Cl. 264-242.000.
Shia, George A.; and Friedland, David J., 4,686,161, Cl. 429-50.000.
Sibilia, John P.; Kotliar, Abraham M.; Murthy, Narasimhaiah S.; and Sacks, William, 4,696,857, Cl. 428-323.000.
Sibovits, Jacob; and Jenkins, I. Phillip, 4,677,352, Cl. 315-408.000.
Silgailis, John; Nathasingh, Davidson M.; and Bruckner, Christopher A., 4,668,309, Cl. 148-108.000.
Sisson, Albert E.; and Lewis, Donald J., 4,699,320, Cl. 239-90.000.
Skinner, David J.; Okazaki, Kenji; and Adam, Colin M., 4,661,172, Cl. 148-12.70A.
Skinner, David J.; Bye, Richard L., Jr.; Okazaki, Kenji; and Adam, Colin M., 4,715,893, Cl. 75-249.000.
Smith, Roger L.; and Bolenbaugh, Daniel L., 4,635,761, Cl. 188-72.600.
Snow, Wayne R.; Isliker, Gaston R.; and Johnson, Colin A., deceased, 4,690,480, Cl. 439-364.000.
Steer, John E., 4,685,300, Cl. 60-562.000.
Swerdloff, Michael D.; Rogic, Milorad M.; and Hendrickson, Larry L., 4,696,693, Cl. 71-28.000.
Taig, Alistair G., 4,641,733, Cl. 192-13.00A.
Taig, Alistair G., 4,643,699, Cl. 464-[illegible]2.000.
Taig, Alistair G., 4,691,583, Cl. 74-422.000.
Taig, Alistair G., 4,715,462, Cl. 180-79.100.
Tanaka, Kazuhiro; Yamamoto, Yasuo; Hanaoka, Katsumi; and Hirai, Masatake, 4,639,707, Cl. 336-185.000.
Tarter, James H., 4,705,146, Cl. 188-73.100.
Taylor, Derek, 4,634,202, Cl. 339-49.00R.
Temple, Robert B.; and Colpaert, James J., 4,712,654, Cl. 188-71.800.
Thornton, Donald I.; Peyton, Richard H.; and O'Shea, James P., 4,636,231, Cl. 55-318.000.
Thornton, Donald I.; and Rodman, Clarke A., 4,661,132, Cl. 55-486.000.
Thornton, Donald I.; and Rodman, Clarke A., 4,701,197, Cl. 55-487.000.
Torban, Yefim; and Hary, Joseph, 4,648,671, Cl. 339-89.00R.
Torre, John J., 4,644,286, Cl. 329-50.000.
Torre, John J., 4,647,910, Cl. 340-551.000.
Torre, John J., 4,658,241, Cl. 340-551.000.
Torre, John J., 4,683,461, Cl. 340-551.000.
Trinh, Lahn T.; and Lewis, Thomas E., 4,638,780, Cl. 123-416.000.
Tung, Hsueh S.; Friedland, David J.; Sukornick, Bernard; McCurry, Lynn E.; Eibeck, Richard E.; and Lockyer, George D., 4,681,823, Cl. 429-218.000.
Urbanski, Jeffrey C., 4,658,263, Cl. 343-788.000.
Vakil, Bharat N., 4,652,869, Cl. 340-703.000.
Van Der Puy, Michael; Soriano, David S.; and Dimmit, Jeffrey H., 4,705,896, Cl. 564-265.000.
Varnell, William D.; and Newton, Thomas D., 4,665,154, Cl. 528-205.000.
Vick, Ralph L., 4,644,971, Cl. 137-625.640.
Vora, Kishore N.; Carrico, John P., Sr.; Spangler, Glenn E.; Campbell, Donald N.; and Martin, Charles E., 4,712,008, Cl. 250-287.000.
Wilner, Leslie B., 4,689,600, Cl. 338-5.000.
Wilson, David P.; Basu, Rajat S.; Pham, Hang T.; Lund, Earl A. E.; and Bonner, John K., 4,654,160, Cl. 252-153.000.
Wilson, David P.; Pham, Hang T.; Lund, Earl A. E.; Basu, Rajat S.; and Pelava, John W., 4,683,075, Cl. 252-171.000.
Wilson, Robert K., 4,679,491, Cl. 91-369.00A.
Wright, Allen B.; and Chichester, Willard L., 4,692,177, Cl. 55-499.000.
Wright, Danny O.; and Pauwels, Michael A., 4,636,620, Cl. 219-501.000.
Yamaguchi, Hiroshi; Tanaka, Teruaki; Hirai, Masatake; Kohketsu, Tadashi; Matsumoto, Masahiro; and Kawate, Kenji, 4,649,248, Cl. 219-10.570.

- Yates, Samuel L.; Peckinpaugh, Frank L.; Flower, Thomas A.; and Westmoreland, Michael K., 4,644,621, Cl. 28-247.000.
- Yeh, Lun-Shu R.; Grenness, Morten; and Fuller, Robert J., 4,637,970, Cl. 429-153.000.
- Yeh, Lun-Shu R.; Grenness, Morten; and Fuller, Robert J., 4,683,648, Cl. 29-623.500.
- Zingler, Christian J.; and Bonner, James D., 4,643,058, Cl. 83-23.000.
- Zupancic, Joseph J.; and Swedo, Raymond J., 4,695,483, Cl. 427-244.000.
- Zwolinski, Leon M.; and Dwyer, Frank J., 4,687,787, Cl. 521-131.000.
- Zwolinski, Leon M.; and Dwyer, Frank J., 4,713,400, Cl. 521-131.000.
- Zyhowski, Gary J.; and Figiel, Francis J., 4,689,170, Cl. 252-194.000.

- Allied Gator, Inc.: *See—*
  - Ramun, Michael; and Ramun, John, 4,670,983, Cl. 30-134.000.
  - Ramun, Michael; and Ramun, John, 4,686,767, Cl. 30-134.000.
- Allied-Signal Inc.: *See—*
  - Malka, Jacob H.; and Hartmann, Joseph P., 4,644,268, Cl. 324-83.00R.
  - Raskin, Donald; Kearney, James E.; and Haznedar, Errol A., 4,716,556, Cl. 367-168.000.
- Allied Steel & Tractor Products, Inc.: *See—*
  - Bouplon, Edward J., 4,662,457, Cl. 173-91.000.
- Allied Tube & Conduit Corporation: *See—*
  - Byrd, Lucid L., 4,660,754, Cl. 228-151.000.
- Alling, Richard L.; Shepard, Richard W.; Landrum, Clyde L.; Tofield, Robert H.; and Podhajecki, Stephen T., to Torrington Company, The. Method for making a double row roller bearing retainer. 4,677,720, 7-7-87, Cl. 29-148.40C.
- Allington, Robert W., to Isco, Inc. Method and apparatus for reducing Schlieren noise in a liquid chromatograph. 4,659,934, 4-21-87, Cl. 250-458.100.
- Allington, Robert W.; and Hull, John D., to Isco, Inc. Peristaltic pump. 4,673,334, 6-16-87, Cl. 417-53.000.
- Allington, Robert W., to Isco, Inc. Method for operating an absorbance monitor. 4,709,190, 11-24-87, Cl. 315-307.000.
- Alliot, Maurice; Meteau, Jean-Louis; and Reboul, Max, to Cegedur Societe de Transformation de l'Aluminium Pechiney. Process for the casting of sacrificial anodes in an ingot mould having a movable base. 4,699,203, 10-13-87, Cl. 164-461.000.
- Allis-Chalmers Corporation: *See—*
  - Jenness, Raymond C., 4,648,561, Cl. 241-34.000.
  - Revell, Alan E., 4,680,039, Cl. 55-341.00R.
- Allison, Anthony C.: *See—*
  - Nelson, Peter H.; Allison, Anthony C.; and Eugui, Elsie M., 4,686,234, Cl. 514-469.000.
- Allison Corporation: *See—*
  - Seltzer, Samuel M.; Dennison, Saul; and Dolan, Frank, Sr., 4,693,511, Cl. 297-219.000.
- Allison, Donald J.: *See—*
  - Spielman, Rodney J.; and Allison, Donald J., 4,669,770, Cl. 294-19.200.
- Allison, Gary D.; and Allison, Michele. Emergency eye wash fountain. 4,675,924, 6-30-87, Cl. 4-620.000.
- Allison, Gary D.; and Allison, Michele. Emergency eye wash fountain. 4,688,276, 8-25-87, Cl. 4-620.000.
- Allison, James A. Clay pigeon launcher. 4,677,961, 7-7-87, Cl. 424-5.000.
- Allison, Joe D.; and Wimberley, J. W., to Conoco Inc. Processes and oxidizing agents for oxidizing sulfide ion to innocuous, soluble sulfur species. 4,710,305, 12-1-87, Cl. 210-747.000.
- Allison, John E., to Ford Motor Company. Titanium engine valve and method of making. 4,675,964, 6-30-87, Cl. 29-156.70R.
- Allison, Mark D.: *See—*
  - Chiu, Anthony M.; Allison, Mark D.; Jones, James W.; Trammell, Lyndale A.; and San Ho, Fock, 4,639,664, Cl. 324-73.0AT.
- Allison, Michele: *See—*
  - Allison, Gary D.; and Allison, Michele, 4,675,924, Cl. 4-620.000.
  - Allison, Gary D.; and Allison, Michele, 4,688,276, Cl. 4-620.000.
- Allison, Ricardo A.; Gunter, John B.; Winkler, Clifford J.; Falk, Diane E.; and Chuang, Ray F., to Westinghouse Electric Corp. Apparatus and process for providing an alternate coolant path in the core of a nuclear reactor. 4,649,609, 3-17-87, Cl. 29-26.00A.
- Allison, Robert S.: *See—*
  - Affa, Steven N.; Newman, Ira R.; and Allison, Robert S., 4,691,741, Cl. 138-113.000.
- Alliston, Michael G.: *See—*
  - Garcia-Mallol, Juan A.; and Alliston, Michael G., 4,682,567, Cl. 122-4.00D.
- Allman Byggnadsservice AB ABS: *See—*
  - Gauffin, Ulf; and Soderlund, Bjorn, 4,634,347, Cl. 417-45.000.
  - Soderlund, Bjorn, 4,636,083, Cl. 366-43.000.
- Allman, Steve L.; Thonnard, Norbert; and Hurst, George S., to Atom Sciences, Inc. Method and apparatus for sensitive atom counting with high isotopic selectivity. 4,658,135, 4-14-87, Cl. 250-283.000.
- Allmanna Brandreskapsaffaren AB: *See—*
  - Ribrant, Sven, 4,638,531, Cl. 24-274.00R.
- Allocca, Peter T., to Koch Engineering Company, Inc. Motionless mixer. 4,643,584, 2-17-87, Cl. 366-337.000.
- Allocco, Carmen, Jr.; and Burger, William R., to Xerox Corporation. Automatic restacking registration in a recirculating document handler. 4,660,819, 4-28-87, Cl. 271-3.100.
- Alloin, Michel; and Flamand, Charles, to Les Cables de Lyon. Electric cable for transportation very high current at low voltage, and methods of manufacturing such a cable. 4,647,712, 3-3-87, Cl. 174-15.0WF.
- Allophonix, Inc.: *See—*
  - Turner, John M.; and Redington, Dana J., 4,704,730, Cl. 381-36.000.
- Allos, Janan E., to Sollatek Limited. Mains protection device. 4,707,760, 11-17-87, Cl. 361-90.000.
- Allos, Talal I. Y.; Forbes, David H.; and Warnes, Christopher M., to Standard Telephones and Cables Public Limited Company. Optical fibre reflectometer. 4,659,216, 4-21-87, Cl. 356-73.100.
- Alloy Metals, Inc.: *See—*
  - Stern, Marvin J., 4,713,217, Cl. 420-452.000.
- Alloy Surfaces Company, Inc.: *See—*
  - Baldi, Alfonso L., 4,694,036, Cl. 524-473.000.
  - Baldi, Alfonso L., 4,708,913, Cl. 428-607.000.
- Alloyfab (Proprietary) Limited: *See—*
  - Buhrman, Rudolph, 4,653,536, Cl. 137-625.430.
- Allpack Industrielle Lohnverpackung GmbH & Co. KG: *See—*
  - Lauk, Willi, 4,695,277, Cl. 604-304.000.
- Allread, Alan R.; Marrison, William C.; Rogers, Russell L.; and Webster, Alexander P., to Aeroquip Corporation. Frangible ball valve connector. 4,643,216, 2-17-87, Cl. 137-68.100.
- Allred, David; Dec, Krystyna; Jackett, Nancy; Van Nguyen, On; and Reyes, Jaime, to Energy Conversion Devices, Inc. Method of manufacturing a thermoelectric element. 4,654,224, 3-31-87, Cl. 427-34.000.
- Allred, David; Kadin, Alan; and Pai, Purnachandra, to Ovonic Synthetic Materials Company, Inc. Multilayer decorative coating. 4,702,955, 10-27-87, Cl. 428-213.000.
- Allred, David: *See—*
  - Reyes, Jaime; and Allred, David, 4,685,030, Cl. 361-400.000.
- Allred, David D.: *See—*
  - Ovshinsky, Stanford R.; Allred, David D.; Walter, Lee; and Hudgens, Stephen J., 4,664,937, Cl. 427-39.000.
  - Ovshinsky, Stanford R.; Allred, David D.; Walter, Lee; and Hudgens, Stephen J., 4,701,343, Cl. 427-39.000.
  - Ovshinsky, Stanford R.; Hudgens, Stephen J.; Allred, David D.; and Demaggio, Gregory, 4,715,890, Cl. 75-0.5AA.
  - Ovshinsky, Stanford R.; Hudgens, Stephen J.; Allred, David D.; and DeMaggio, Gregory, 4,715,891, Cl. 75-0.5BA.
- Allred, Gary: *See—*
  - Manuel, John L., 4,700,412, Cl. 4-207.000.
- Allred, Lorin D.: *See—*
  - Wever, Ruben; Allred, Lorin D.; and Ruiz, Marco A., 4,663,776, Cl. 379-29.000.
- Allred, Robert F. Ventilating apparatus for building foundations in both brick and siding type structures. 4,676,145, 6-30-87, Cl. 98-29.000.
- Allroth, Sven E.: *See—*
  - Engstrom, Ulf F. I.; Allroth, Sven E.; and Mustonen, Olavi M., 4,702,772, Cl. 75-243.000.
- Allsop, Inc.: *See—*
  - Allsop, Ivor J.; Allsop, Michael G.; Allsop, James D.; and Clausen, Eivind, 4,687,094, Cl. 206-44.00R.
  - Allsop, James D.; and Clausen, Eivind, 4,635,154, Cl. 360-128.000.
  - Brauner, William E.; Tomkinson, John G.; and Clausen, Eivind, 4,655,342, Cl. 206-45.180.
  - Clausen, Eivind; and Skaling, Timothy J., 4,636,109, Cl. 404-10.000.
  - Clausen, Eivind; and Allsop, Michael G., 4,708,311, Cl. 248-222.200.
  - Clausen, Eivind, 4,713,856, Cl. 15-97.00R.
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- Allsop, James D.; and Clausen, Eivind, to Allsop, Inc. Cleaning ribbon and method for cleaning a video player/recorder. 4,635,154, 1-6-87, Cl. 360-128.000.
- Allsop, James D.: *See—*
  - Allsop, Ivor J.; Allsop, Michael G.; Allsop, James D.; and Clausen, Eivind, 4,687,094, Cl. 206-44.00R.
- Allsop, Jon I.: *See—*
  - Stern, Donald J.; and Allsop, Jon I., 4,639,156, Cl. 401-146.000.
- Allsop, Michael G.: *See—*
  - Allsop, Ivor J.; Allsop, Michael G.; Allsop, James D.; and Clausen, Eivind, 4,687,094, Cl. 206-44.00R.
  - Clausen, Eivind; and Allsop, Michael G., 4,708,311, Cl. 248-222.200.
- Allspeeds Holding Limited: *See—*
  - Sleigh, Rodney P., 4,698,909, Cl. 30-180.000.
- Allstar Verbrauchsguter GmbH: *See—*
  - Schuster, Wilhelm, 4,677,705, Cl. 15-398.000.
- Allsteel Inc.: *See—*
  - Herrera, Jose; and Wurgler, Brian S., 4,688,491, Cl. 108-50.000.
- Alltech Associates, Inc.: *See—*
  - Anderson, James M., Jr., 4,690,437, Cl. 285-356.000.
- Alltel Corporation: *See—*
  - Muehleisen, Thomas C., 4,679,226, Cl. 379-95.000.
- Alltrade, Inc.: *See—*
  - Livian, Andre, 4,651,425, Cl. 30-507.000.
- Allum, Stephen M.; and Chesters, David A., to British Petroleum Company p.l.c., The. Flare. 4,634,372, 1-6-87, Cl. 431-202.000.
- Allured, David; and LaBanco, Leonard C. Electronic sensing system for a stringed and fretted musical instrument. 4,653,376, 3-31-87, Cl. 84-1.160.
- Alluto, Luigi; Delotto, Romeo; and Orlandin, Vanis, to Indesit Industria Elettrodomestici Italiana S.p.A. Device to compensate for an external sources' thermic effects on a sensitive element in an auto-

matic control system of the temperature reached by foods in heated vessels. 4,645,124, 2-24-87, Cl. 236-20.00A.

Allvey, George W.: *See—*
  Wilson, John A.; Staniewicz, Robert J.; Webber, Bruce; and Allvey, George W., 4,664,287, Cl. 220-89.00A.

Allware Agencies Limited: *See—*
  Kenyon, Eric, 4,642,441, Cl. 219-364.000.

Allweier, Werner K.; and Knight, David W., to U.S. Baird Corporation, The. Transfer press with quick change die set arrangement. 4,655,071, 4-7-87, Cl. 72-346.000.

Allwin, Roger P.; and Budke, Mark, to MWL Tool Company. Setting tool for a well tool. 4,681,159, 7-21-87, Cl. 166-124.000.

Allwin, Roger P.; and Budke, Mark P., to Lindsey Completion Systems. Liner hanger assembly with combination setting tool. 4,712,614, 12-15-87, Cl. 166-208.000.

Ally, Sa-Aydien. Apparatus for making pastries. 4,651,635, 3-24-87, Cl. 99-450.600.

Allyn, Jerome B.: *See—*
  Wood, John F. B.; Kaiser, Timothy D.; Allyn, Jerome B.; Dykes, Charles D.; Kalaskie, Frank E.; Carmichael, Robert J.; and Simon, Charles R., 4,694,899, Cl. 164-452.000.

Alm, Ake W., to Hughes Aircraft Company. Radiator scanning with image enhancement and noise reduction. 4,712,010, 12-8-87, Cl. 250-334.000.

Alm, Christer L.: *See—*
  Rangert, Bo R.; and Alm, Christer L., 4,700,480, Cl. 30-383.000.

Alm, Renate Elisabeth Franke nee, Catharina Franke, Tobias Franke, heirs: *See—*
  Franke, Albrecht, deceased; Mueller, Claus D.; and Lenke, Dieter, 4,670,435, Cl. 514-239.000.

Almac Plastics Inc.: *See—*
  Batky, Michael, 4,635,420, Cl. 52-309.100.

Almada, Edward M. Metallic seal with interlocking J-shaped lips. 4,640,516, 2-3-87, Cl. 277-236.000.

Almasi, Istvan: *See—*
  Erzsebet, Almasine B.; Almasi, Istvan; Toth, Arpad; Benke, Istvan; and Bajkay, Arpad, 4,674,900, Cl. 374-131.000.

Almblad, Donald: *See—*
  Almblad, Robert, 4,677,835, Cl. 70-456.00R.

Almblad, Donald F. Key and retainer card combination. 4,637,236, 1-20-87, Cl. 70-458.000.

Almblad, Donald F.; Mueller, Michael A.; and Drehobl, Thomas L., to Almblad, Donald F. Apparatus for and method of duplicative punched notching of the serration edges of key blanks. 4,651,604, 3-24-87, Cl. 83-50.000.

Almblad, Robert, to Almblad, Donald. Plastic card/key combination and hinge structure. 4,677,835, 7-7-87, Cl. 70-456.00R.

Almen, Daniel V. Guard attachment for vehicle door. 4,688,353, 8-25-87, Cl. 49-460.000.

Almer, Bengt O.; and Gidlof, Karl G. Concrete block. 4,661,010, 4-28-87, Cl. 404-6.000.

Almeras, Roland: *See—*
  Ollivier, Jean; and Almeras, Roland, 4,678,385, Cl. 411-456.000.

Almering, Petrus C. M.; and Zwaga, Bocke, to U.S. Philips Corporation. Arrangement for restoring the L.F. content of a digital signal. 4,709,158, 11-24-87, Cl. 307-200.00A.

Almestad, Henry C. Concealed hinge. 4,704,766, 11-10-87, Cl. 16-236.000.

Almeter, David D.; and Edwards, Jon K., to Eastman Kodak Company. Corona generating apparatus. 4,652,754, 3-24-87, Cl. 250-325.000.

Almon, Harold A. Multi channel borehole seismic surveying tool. 4,693,335, 9-15-87, Cl. 181-102.000.

Almond, Jeffrey W.; Minor, Phillip D.; Evans, David M. A.; and Schild, Geoffrey C., to National Research Development Corporation. Polypeptides useful in vaccination against enteroviruses. 4,694,071, 9-15-87, Cl. 530-329.000.

Almond, Stephen W.; and Hanlon, David J., to Halliburton Company. Composition for and method of altering the permeability of a subterranean formation. 4,664,713, 5-12-87, Cl. 106-209.000.

Almquist, Ronald G.; and Olsen, Cris M., to SRI International. Orally active LHRH analogs. 4,705,778, 11-10-87, Cl. 514-15.000.

Almqvist, Christer; Carlsson, Bengt; and Lindahl, Lars, to ReHeat AB. Packing groove in plate member of plate heat exchanger. 4,635,714, 1-13-87, Cl. 165-167.000.

Almqvist, Christer; and Lindahl, Lars, to ReHeat AB. Plate elements and gaskets at plate heat exchangers or plate filters. 4,646,821, 3-3-87, Cl. 165-166.000.

Almqvist, Christer, to Reheat AB. Plate heat exchanger. 4,678,030, 7-7-87, Cl. 165-166.000.

Almy, Thomas A., to Tektronix, Inc. High storage capacity associative memory. 4,670,858, 6-2-87, Cl. 365-49.000.

Alnafissa, Fahad A. Solar system simulator. 4,713,011, 12-15-87, Cl. 434-292.000.

Alneri, Enzo: *See—*
  Venturello, Carlo; Alneri, Enzo; Coassolo, Alfredo; and D'Aloisio, Rino, 4,701,550, Cl. 560-180.000.

Alnot, Patrick R.; Auerbach, Daniel J.; Brundle, Christopher R.; and Miller, Dolores C., to International Business Machines Corporation. Process for accelerating Pd/Sn seeds for electroless copper plating. 4,640,718, 2-3-87, Cl. 134-2.000.

Alois Kober KG: *See—*
  Kober, Kurt; Wohrle, Rudolf; and Kohler, Robert, 4,664,402, Cl. 280-446.00B.

Aloisio, Leonard. Emergency air system for partially submerged vessels. 4,694,768, 9-22-87, Cl. 114-71.000.

Aloka Co., Ltd.: *See—*
  Namekawa, Koroku, 4,641,668, Cl. 128-663.000.
  Namekawa, Kouroku; and Harada, Akimitsu, 4,651,742, Cl. 128-663.000.
  Namekawa, Kouroku; and Harada, Akimitsu, 4,651,745, Cl. 128-663.000.

Alon, Ely, to State of Israel, Ministry of Defence, Israel Military Industries, The. Pyrotechnic aircraft carried bomb. 4,651,648, 3-24-87, Cl. 102-387.000.

Alon, Gad, to Chattanooga Corporation. Neuromuscular stimulating apparatus. 4,690,146, 9-1-87, Cl. 128-422.000.

Alongi, Anthony J.: *See—*
  Alongi, Anthony V.; and Alongi, Anthony J., 4,698,634, Cl. 342-22.000.

Alongi, Anthony V.; and Alongi, Anthony J. Subsurface inspection radar. 4,698,634, 10-6-87, Cl. 342-22.000.

Alonso, Antonio C.; Alvarez-Icaza, Luis L.; and Canales, Roberto R., to Vitro Tec Fideicomiso. Article transference system and apparatus. 4,660,711, 4-28-87, Cl. 198-430.000.

Alonso, Hector: *See—*
  Martin, Peter; Wyatt, Avis N., Jr.; Alonso, Hector; Rowe, Norman R.; Southard, Robert S.; and Zimmermann, Stephen G., 4,657,144, Cl. 209-546.000.

Alonso, Manuel T., to Tascon Medical Technology Corporation. Heart valve prosthesis. 4,680,031, 7-14-87, Cl. 623-2.000.

Alonso, Oscar, to ITT Corporation. Polyolefin resin surface preparation. 4,654,262, 3-31-87, Cl. 428-345.000.

Alonso, Sydney A., to New England Digital Corporation. Method of and apparatus for providing pulse trains whose frequency is variable in small increments and whose period, at each frequency, is substantially constant from pulse to pulse. 4,680,479, 7-14-87, Cl. 307-265.000.

Alopex Industries, Inc.: *See—*
  Chivens, Donald R.; and Greskovics, Paul, 4,714,508, Cl. 156-195.000.

Alos AG: *See—*
  Wydler, Peter, 4,691,112, Cl. 250-570.000.

Aloup, Jean C.; Bouchaudon, Jean; Farge, Daniel; and James, Claude, to Rhone-Poulenc Sante. Thioformamide derivatives and use in inhibiting gastric secretion. 4,680,303, 7-14-87, Cl. 514-336.000.

Aloys F. Dornbracht GmbH & Co.: *See—*
  Dornbracht, Helmut; and Grasse, Klaus-Peter, 4,678,207, Cl. 285-39.000.

Alpaiwalla, Feroz K.; and Begeman, Robert H., to RCA Corporation. Radio frequency switch. 4,678,929, 7-7-87, Cl. 307-112.000.

Alpegiani, Marco; Bedeschi, Angelo; Foglio, Maurizio; Franceschi, Giovanni; and Perrone, Ettore, to Farmitalia Carlo Erba S.p.A. 2-thiacephems and (5R) penems derivatives. 4,713,450, 12-15-87, Cl. 540-214.000.

Alpegiani, Marco: *See—*
  Perrone, Ettore; Alpegiani, Marco; Zarini, Franco; Bruna, Costantino D.; and Franceschi, Giovanni, 4,713,378, Cl. 514-192.000.

Alpen Dairy Foods Pty. Limited: *See—*
  Kilroy, Stanley A. R., 4,680,194, Cl. 426-602.000.

Alpen Tau, Inc.: *See—*
  Garlen, David; Koehn, Hilde R.; Koehn, Peter W.; and McColl, J. D., 4,707,354, Cl. 424-47.000.

Alper, Daniel D.; Bakhaus, Kenneth C.; and Estkowski, Michael H., to Mechanical Products, Inc. Backlighted trip indicator. 4,688,512, 8-25-87, Cl. 116-279.000.

Alper, Howard; and Smith, David J. H., to British Petroleum Company p.l.c., The. Process for the production of lactones. 4,634,780, 1-6-87, Cl. 549-273.000.

Alper, Howard; Smith, David J. H.; and Woell, James B., to British Petroleum Company p.l.c., The. Process for the production of carboxylic acid esters. 4,642,370, 2-10-87, Cl. 560-100.000.

Alper, Howard; Shim, Sang C.; and Smith, David J. H., to British Petroleum Company p.l.c., The. Process for the production of carboxylic acids and/or esters thereof. 4,661,619, 4-28-87, Cl. 560-100.000.

Alper, Howard; and Smith, David J. H., to British Petroleum Company p.l.c., The. Process for the production of esters. 4,665,213, 5-12-87, Cl. 560-105.000.

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Alper, Howard; and Smith, David J. H., to British Petroleum Company p.l.c., The. Carbamate ester production. 4,694,097, 9-15-87, Cl. 560-24.000.

Alper, Howard; and Smith, David J. H., to British Petroleum Company p.l.c., The. Process for the desulphurization of mercaptans. 4,704,481, 11-3-87, Cl. 568-658.000.

Alper, Howard; and Smith, David J. H., to British Petroleum Company p.l.c., The. Carbonylation of mercaptans. 4,705,880, 11-10-87, Cl. 558-257.000.

Alperin, Marvin; and Brassner, Joseph L. Convertible sofa-bed. 4,651,362, 3-24-87, Cl. 5-12.00R.

Alperin, Noam: *See—*
  Fenster, Paul; Shimoni, Yair; Nissenson, Bilha; and Alperin, Noam, 4,641,352, Cl. 382-6.000.

Alpern, Alan N.: *See—*
  Lewis, Kenneth A.; Alpern, Alan N.; Frank, Andrew C.; and Ross, Stuart E., 4,715,045, Cl. 375-58.000.

Alperson, Joel H. Garments hang-rail coupling. 4,692,056, 9-8-87, Cl. 403-233.000.

- Alpert, Nathaniel M.: *See—*
  - Moore, Richard H.; Strauss, H. William; and Alpert, Nathaniel M., 4,633,881, Cl. 128-659.000.
- Alpha Enterprises, Inc.: *See—*
  - Hehn, Bruce A.; and McInnes, Donald E., 4,643,301, Cl. 206-232.000.
  - Hehn, Bruce A.; and Sankey, James K., 4,709,437, Cl. 15-97.00R.
- Alpha Grillo-Lotsysteme GmbH: *See—*
  - Froebel, Gerd; and Stang, Hans W., 4,708,751, Cl. 148-23.000.
- Alpha Industries, Inc.: *See—*
  - Borzym, John J., 4,646,601, Cl. 83-385.000.
  - Crossley, Ian; Donoghue, Daniel; Mittleman, Steven; and Nash, Seth, 4,637,068, Cl. 455-327.000.
  - Crossley, Ian; Donoghue, Daniel; Goldwasser, Robert; Miley, John; and Spooner, Frank, 4,644,296, Cl. 331-1.00R.
  - Gutierrez, Romulo; Bauer, Albert W.; and McDonald, Thomas L., 4,644,096, Cl. 174-52.00H.
  - Syrigos, Harry, 4,673,945, Cl. 343-755.000.
- Alpha Mail Systems: *See—*
  - Ryan, Patrick, 4,643,306, Cl. 206-425.000.
- Alpha Manufacturing, Inc.: *See—*
  - Faulkner, Danny E.; and Little, William R., 4,645,071, Cl. 198-842.000.
- Alpha Maschinenbau AG.: *See—*
  - Post, Friedhelm, 4,708,009, Cl. 72-442.000.
- Alpha Metal Corp.: *See—*
  - Lee, Dickey, 4,648,481, Cl. 182-28.000.
- Alpha Modular Systems: *See—*
  - Alemanni, James C., 4,643,234, Cl. 140-147.000.
- Alpha Ocean Systems, Inc.: *See—*
  - Ogg, Robert D., 4,676,184, Cl. 114-304.000.
- Alpha-Omega Engineering, Inc.: *See—*
  - Smith, Stephen F., 4,660,222, Cl. 455-109.000.
  - Smith, Stephen F., 4,686,705, Cl. 455-109.000.
- Alpha Sports, Inc.: *See—*
  - Chiang, Chinn-Chann, 4,660,364, Cl. 57-234.000.
- Alpha Therapeutic Corporation: *See—*
  - Herring, Steven W., 4,675,385, Cl. 530-383.000.
- Alphabet Inc.: *See—*
  - Mayhew, John D., Jr., 4,646,407, Cl. 29-157.10R.
- Alphacrete Construction Linings (UK) Limited: *See—*
  - Russell, Derek V., 4,647,515, Cl. 428-703.000.
- Alphacrete Linings Limited: *See—*
  - Russell, Derek V., 4,658,561, Cl. 52-662.000.
- Alphadent: *See—*
  - Heinix, Lucien J., 4,642,050, Cl. 433-56.000.
- Alphair Ventilating Systems Inc.: *See—*
  - Martens, Ernst, 4,710,112, Cl. 425-64.000.
- Alpharel Incorporated: *See—*
  - Alker, Bruce B.; and McGovern, Michael J., 4,665,555, Cl. 382-41.000.
- Alphasil, Inc.: *See—*
  - Holmberg, Scott H.; and Flasck, Richard A., 4,651,185, Cl. 357-23.700.
- Alphatime Ltd: *See—*
  - Revici, Emanuel, 4,681,753, Cl. 424-10.000.
- Alpine Aktiengesellschaft: *See—*
  - Karl, Veit-Holger, 4,643,656, Cl. 425-72.00R.
- Alpine Electronics Inc.: *See—*
  - Aoki, Shuichi; Kumagai, Katsuyoshi; Haga, Akihiko; and Ito, Minoru, 4,674,592, Cl. 181-170.000.
  - Ejiri, Kazushige, 4,677,607, Cl. 369-77.100.
  - Ejiri, Kazushige, 4,710,910, Cl. 369-75.200.
  - Ouchida, Kenji, 4,706,294, Cl. 381-109.000.
  - Suzuki, Shoji, 4,694,983, Cl. 226-181.000.
  - Suzuki, Shoji, 4,703,138, Cl. 200-61.58R.
  - Takahashi, Toshiaki; and Suzuki, Tokio, 4,684,928, Cl. 340-521.000.
  - Takeda, Kazuma; and Igarashi, Tsutomu, 4,683,462, Cl. 340-571.000.
  - Watanabe, Hironobu; and Sakai, Akira, 4,644,110, Cl. 200-5.00R.
- Alpine Research, Inc.: *See—*
  - Ramer, Paul C., 4,674,766, Cl. 280-614.000.
- Alpine Stars S.p.A.: *See—*
  - Mazzarolo, Sante, 4,693,021, Cl. 36-131.000.
- Alpqvist, Jan A., to Gas Research Institute. Combustion device for combustion of a gaseous fuel. 4,676,736, 6-30-87, Cl. 431-243.000.
- Alps Electric Co., Ltd.: *See—*
  - Abe, Hiraku; Uehara, Minoru; and Aikawa, Chiaki, 4,707,062, Cl. 350-96.160.
  - Abe, Mikio, 4,642,729, Cl. 361-293.000.
  - Amagishi, Yoshitada, 4,677,417, Cl. 338-114.000.
  - Aratsu, Syuichi, 4,669,327, Cl. 74-409.000
  - Asano, Isao, 4,713,703, Cl. 360-97.000.
  - Fujioka, Kazunori, 4,680,517, Cl. 318-332.000.
  - Fujisawa, Kyuichi, 4,636,100, Cl. 400-662.000.
  - Fuke, Takamichi, 4,638,677, Cl. 74-84.00R.
  - Fuke, Takamichi, 4,651,247, Cl. 360-106.000.
  - Fuke, Takamichi, 4,694,366, Cl. 360-106.000.
  - Fuke, Takamichi; Aikawa, Chiaki; Watanabe, Takashi; and Hishi, Yuichi, 4,700,251, Cl. 360-106.000.
  - Harumatsu, Masatoshi; Fuse, Masashi; Tomoyori, Makoto; and Tsushima, Noboru, 4,672,563, Cl. 364-559.000.
  - Harumatsu, Masatoshi, 4,693,620, Cl. 400-611.000.
  - Hasegawa, Kazuo, 4,652,774, Cl. 307-268.000.
  - Hasegawa, Kazuo; Sasaki, Hiroaki; and Nakase, Kohji, 4,689,446, Cl. 178-18.000.
  - Hatanai, Takashi; Nakashima, Keishi; and Mukasa, Koichi, 4,638,391, Cl. 360-125.000.
  - Hatanai, Takashi; Mukasa, Koichi; Nakashima, Keishi; and Sato, Hiroshi, 4,657,812, Cl. 428-328.000.
  - Hatanai, Takashi; and Nakashima, Keishi, 4,695,512, Cl. 428-408.000.
  - Hatayama, Masato; and Matsumora, Satoru, 4,700,025, Cl. 200-5.00A.
  - Hibino, Ikuo, 4,653,939, Cl. 400-120.000.
  - Hibino, Ikuo; and Umeki, Koichi, 4,654,674, Cl. 346-76.0PH.
  - Hibino, Ikuo, 4,700,200, Cl. 346-76.0PH.
  - Hirose, Eiichi, 4,650,712, Cl. 428-323.000.
  - Hirose, Eiichi, 4,677,514, Cl. 360-119.000.
  - Hishi, Yuichi, 4,710,836, Cl. 360-106.000.
  - Hori, Fumihasa, 4,715,737, Cl. 400-569.000.
  - Hori, Fumihisa, 4,706,562, Cl. 101-93.220.
  - Hori, Fumihisa, 4,715,277, Cl. 101-93.280.
  - Ichihara, Akira, 4,649,444, Cl. 360-99.000.
  - Ichihara, Akira, 4,669,008, Cl. 360-97.000.
  - Igarashi, Sadao, 4,701,728, Cl. 333-212.000.
  - Igarashi, Sadao, 4,716,387, Cl. 333-26.000.
  - Iigima, Kouta, 4,639,691, Cl. 331-99.000.
  - Iijima, Kouta; and Tanemura, Takeshi, 4,660,002, Cl. 332-16.00T.
  - Ishikawa, Keisuke, 4,649,761, Cl. 74-10.00R.
  - Ishikawa, Keisuke, 4,697,044, Cl. 174-35.00R.
  - Ito, Akinori; Akazawa, Michitada; and Kondo, Shiro, 4,702,307, Cl. 165-42.000.
  - Iwai, Nobuo, 4,641,020, Cl. 250-201.000.
  - Iwata, Tetsuya, 4,639,809, Cl. 360-121.000.
  - Kamata, Hiroshi; and Okubo, Wataru, 4,658,438, Cl. 455-264.000.
  - Kamijo, Yoshimi; Kato, Yoshinori; and Ikarashi, Masami, 4,653,186, Cl. 29-838.000.
  - Kamijo, Yoshimi; Kato, Yoshinori; and Ikarashi, Masami, 4,667,128, Cl. 313-505.000.
  - Kamijo, Yoshimi, 4,708,914, Cl. 428-690.000.
  - Kamijyo, Yoshimi, 4,634,630, Cl. 428-399.000.
  - Kamijyo, Yoshimi, 4,690,813, Cl. 423-606.000.
  - Kamiko, Mitsuo, 4,653,856, Cl. 350-255.000.
  - Kando, Giichi; and Tomoyori, Makoto, 4,683,646, Cl. 29-611.000.
  - Kano, Mitsuru; and Nakanowatari, Jun, 4,697,015, Cl. 544-335.000.
  - Kato, Masakazu; and Takoshima, Takehiro, 4,709,243, Cl. 346-76.0PH.
  - Kato, Masakazu, 4,710,263, Cl. 156-637.000.
  - Kato, Yoshinori; Igarashi, Masami; and Kamijo, Yoshimi, 4,661,373, Cl. 427-66.000.
  - Kikuchi, Hiroshi, 4,672,153, Cl. 178-18.000.
  - Kikuchi, Jiro, 4,709,403, Cl. 455-126.000.
  - Kikuchi, Noboru; Nakamura, Tadashi; and Maruyama, Takahito, 4,657,417, Cl. 400-185.000.
  - Kimura, Kiyoshi, 4,710,595, Cl. 178-18.000.
  - Kimura, Kiyoshi; and Hara, Osamu, 4,713,496, Cl. 178-18.000.
  - Komatsu, Norimasa, 4,677,511, Cl. 360-109.000.
  - Kondo, Shiro; and Sawada, Kenji, 4,659,880, Cl. 200-5.00R.
  - Kuriyama, Toshihiro, 4,700,250, Cl. 360-104.000.
  - Maemine, Kenji, 4,701,649, Cl. 310-68.00R.
  - Maemine, Kenji, 4,701,650, Cl. 310-68.00R.
  - Matsunaga, Hiroshi; Shimojima, Yoji; and Tokunaga, Ichiro, 4,634,862, Cl. 250-231.0SE.
  - Matsunaga, Hiroshi; Shimojima, Yoji; Tokunaga, Ichiro; and Obata, Kosei, 4,684,210, Cl. 350-96.200.
  - Matsunaga, Hiroshi; Tokunaga, Ichiro; Shimojima, Yoji; and Obata, Kosei, 4,705,348, Cl. 350-96.150.
  - Matsuta, Shigetoshi, 4,637,070, Cl. 455-331.000.
  - Matsuta, Shigetoshi, 4,649,461, Cl. 361-415.000.
  - Matsuta, Shigetoshi, 4,710,737, Cl. 334-56.000.
  - Matsuura, Takanobu; and Yamamoto, Toshiyuki, 4,641,150, Cl. 346-76.0PH.
  - Matsuura, Takanobu; and Yamamoto, Toshiyuki, 4,644,371, Cl. 346-76.0PH.
  - Matsuura, Takanobu; and Yamamoto, Toshiyuki, 4,667,210, Cl. 346-139.00R.
  - Miura, Teiichi, 4,668,844, Cl. 200-5.00E.
  - Miura, Teiichi, 4,700,586, Cl. 74-483.0PB.
  - Miura, Teiichi, 4,701,580, Cl. 200-5.00E.
  - Mizuta, Ken; and Kondo, Shiro, 4,689,537, Cl. 318-568.000.
  - Mizuta, Ken; and Kondo, Shiro, 4,698,571, Cl. 318-568.000.
  - Mizuta, Ken, 4,709,196, Cl. 318-282.000.
  - Mukasa, Koichi; Hatanai, Takashi; Nakashima, Keishi; and Onishi, Kazumasa, 4,638,387, Cl. 360-122.000.
  - Murata, Taneo, 4,642,433, Cl. 200-308.000.
  - Nakamura, Tadashi; and Hibino, Ikuo, 4,651,162, Cl. 346-1.100.
  - Nakanowatari, Jun; Machida, Mitsuo; Okamoto, Toshiyuki; and Nakura, Yoshihiro, 4,640,581, Cl. 350-331.00R.
  - Nakanowatari, Jun; and Kano, Mitsuru, 4,711,530, Cl. 350-339.00R.
  - Nakase, Koji; and Sasaki, Hiroaki, 4,698,490, Cl. 235-472.000.
  - Niinuma, Akira, 4,675,486, Cl. 200-255.000.
  - Nishioka, Toru; and Yamashita, Tatsumaro, 4,669,002, Cl. 360-64.000.
  - Noda, Yasuhiko, 4,695,692, Cl. 200-335.000.
  - Numata, Hidetaka, 4,712,053, Cl. 318-663.000.
  - Numata, Hidetaka; and Kawata, Toshihiko, 4,716,359, Cl. 323-349.000.
  - Oba, Hiroki, 4,677,267, Cl. 200-153.00J.
  - Oba, Hiroki, 4,684,775, Cl. 200-276.000.
  - Oba, Hiroki; Aoki, Seiichi; Niinuma, Akira; and Sato, Seiichiro, 4,690,484, Cl. 439-736.000.

  - Oba, Hiroki, 4,698,465, Cl. 200-16.00F.
  - Ohashi, Yoshihiro, 4,679,025, Cl. 338-197.000.
  - Oka, Tsumoru, 4,652,850, Cl. 338-160.000.
  - Oka, Tsumoru; and Tamagawa, Hiroshi, 4,658,236, Cl. 340-56.000.
  - Okita, Masao; Gunji, Kunihiko; and Saito, Yukio, 4,635,149, Cl. 360-97.000.
  - Okita, Masao, 4,637,010, Cl. 369-270.000.
  - Okita, Masao; and Miyata, Hiroyasu, 4,639,595, Cl. 250-231.0SE.
  - Okita, Masao; Gunji, Kunihiko; and Saito, Yukio, 4,641,211, Cl. 360-97.000.
  - Okita, Masao; Gunji, Kunihiko; and Saito, Yukio, 4,651,240, Cl. 360-97.000.
  - Okita, Masao; Gunji, Kunihiko; and Saito, Yukio, 4,679,106, Cl. 360-99.000.
  - Okita, Masao, 4,688,440, Cl. 74-89.150.
  - Okita, Masao, 4,704,646, Cl. 360-105.000.
  - Okuya, Tsutae, 4,698,613, Cl. 338-176.000.
  - Oyama, Minoru; and Kinugawa, Ryoji, 4,674,008, Cl. 361-417.000.
  - Sakai, Tsuneo; Tanihira, Tadashi; and Ito, Yoshio, 4,654,884, Cl. 455-183.000.
  - Sasaki, Shinji; Shimoyama, Yujiro; and Watanabe, Yoshinori, 4,668,849, Cl. 200-291.000.
  - Sasaki, Shinji; Shimoyama, Yujiro; and Watanabe, Yoshinori, 4,710,600, Cl. 200-291.000.
  - Sasazaki, Isao, 4,658,314, Cl. 360-103.000.
  - Sato, Kazuo, 4,685,006, Cl. 360-64.000.
  - Sawada, Kenji, 4,654,487, Cl. 200-1.00V.
  - Sawada, Kenji, 4,689,450, Cl. 200-6.00R.
  - Shigenai, Osamu; Saito, Yukio; Gunji, Kunihiko; Shimaoka, Motohiro; Hirose, Yasuyuki; and Okita, Masao, 4,672,490, Cl. 360-105.000.
  - Shimada, Yutaka; Hatanai, Takashi; Mukasa, Koichi; and Nakashima, Keishi, 4,641,213, Cl. 360-125.000.
  - Shimaoka, Motohiro; and Saito, Yukio, 4,646,176, Cl. 360-97.000.
  - Shimaoka, Motohiro; and Saito, Yukio, 4,647,996, Cl. 360-97.000.
  - Shimaoka, Motohiro; and Watanabe, Makoto, 4,654,734, Cl. 360-99.000.
  - Shimaoka, Motohiro; and Saito, Yukio, 4,685,011, Cl. 360-97.000.
  - Shimaoka, Motohiro; and Saito, Yukio, 4,704,525, Cl. 250-239.000.
  - Shimaoka, Motohiro; and Saito, Yukio, 4,710,829, Cl. 360-97.000.
  - Sugawara, Katsuyuki, 4,680,655, Cl. 360-97.000.
  - Sugawara, Tadami; and Okita, Masao, 4,677,358, Cl. 318-696.000.
  - Suzuki, Takeo, 4,710,973, Cl. 455-180.000.
  - Tadachi, Akio; and Sato, Makoto, 4,652,839, Cl. 333-26.000.
  - Tadachi, Akio, 4,654,606, Cl. 331-99.000.
  - Tadachi, Akio; and Takayama, Akira, 4,673,895, Cl. 331-99.000.
  - Takahashi, Yoshihiro; Abe, Hiraku; and Mamiya, Yasuhiro, 4,644,156, Cl. 250-231.0SE.
  - Takahashi, Yoshihiro; Abe, Hiraku; and Hayasaka, Kourou, 4,661,697, Cl. 250-231.0SE.
  - Takasawa, Kazuhiro, 4,704,503, Cl. 200-16.00B.
  - Takayama, Akira, 4,677,693, Cl. 455-327.000.
  - Takayanagi, Katsumi, 4,654,628, Cl. 338-320.000.
  - Takayanagi, Katsumi, 4,658,234, Cl. 338-260.000.
  - Takeda, Kuninobu; and Shigenai, Osamu, 4,661,869, Cl. 360-97.000.
  - Takikawa, Makito, 4,636,896, Cl. 360-105.000.
  - Takoshima, Takehiro, 4,713,671, Cl. 346-76.0PH.
  - Tanabe, Osamu, 4,636,601, Cl. 200-153.00J.
  - Tashiro, Yoshizo, 4,678,284, Cl. 350-344.000.
  - Tobita, Katsumi, 4,692,803, Cl. 358-143.000.
  - Tokunaga, Ichiro; and Shimojima, Yoji, 4,650,995, Cl. 250-231.0SE.
  - Tokunaga, Ichiro, 4,659,924, Cl. 250-231.0SE.
  - Tsuchiya, Tatsuhiko; and Komatsu, Norimasa, 4,646,186, Cl. 360-130.210.
  - Tsukada, Jiro; Hosogoe, Junichi; and Ida, Yuichi, 4,652,871, Cl. 340-710.000.
  - Tsushima, Noburu; Fuse, Masashi; Mimori, Teruo; Sasaki, Toshio; and Mukai, Tadashi, 4,673,878, Cl. 324-226.000.
  - Ueno, Moriaki, 4,638,264, Cl. 331-117.00D.
  - Unjo, Naoki; and Fuke, Takamichi, 4,659,952, Cl. 310-90.000.
  - Watanabe, Masamichi; and Watanabe, Yasushi, 4,677,529, Cl. 361-414.000.
  - Watanabe, Masamichi; and Watanabe, Yasushi, 4,691,188, Cl. 338-307.000.
  - Watanabe, Toshinori; and Noguchi, Ichiro, 4,646,185, Cl. 360-121.000.
  - Yamashita, Tatsumaro, 4,649,306, Cl. 310-90.000.
  - Yamashita, Tatsumaro, 4,709,287, Cl. 360-109.000.
  - Yanata, Saki; Maruyama, Takahito; and Osakama, Chikashi, 4,654,673, Cl. 346-76.0PH.
  - Yasuhara, Yukihiko, 4,636,677, Cl. 310-194.000.
  - Yoshida, Motohiko, 4,677,600, Cl. 367-127.000.
- Alra Laboratories, Inc.: *See—*
  - Bhutani, Baldev R., 4,684,516, Cl. 424-19.000.
- Alroy, Yoram A.: *See—*
  - Stanley, Smith B.; and Alroy, Yoram A., 4,679,261, Cl. 5-183.000.
- Alsaker, Jon, to Stord Bartz A/S. Plant for drying animal or vegetable material. 4,653,198, 3-31-87, Cl. 34-35.000.
- Alsberg, Peter, to Gould Inc. Protector system for computer access and use. 4,672,572, 6-9-87, Cl. 364-900.000.
- Alsbrook, Daniel E.: *See—*
  - Mesenich, Gerhard; Bart, Hansueli; and Alsbrook, Daniel E., 4,708,117, Cl. 123-533.000.
- Alsdorf, Hermann; and Dittmar, Armin. Material for sealing borehole walls. 4,670,056, 6-2-87, Cl. 106-105.000.
- Alsen, Per; and Salo, Timo, to Erix Tool AB. Device in back spot facing tools. 4,710,070, 12-1-87, Cl. 408-93.000.
- Alsenz, Evert C.; Juptner, William F.; and Macy, David F., to Piezoelectric Technology Investors, Ltd. Angular rate sensor system. 4,654,663, 3-31-87, Cl. 340-870.300.
- Alsenz, Evert C.: *See—*
  - St. Clair, Gordon; and Alsenz, Evert C., 4,635,066, Cl. 343-705.000.
- Alsenz, Richard H. Pulse controlled solenoid valve. 4,651,535, 3-24-87, Cl. 62-225.000.
- Alsenz, Richard H. Temperature responsive compressor pressure control apparatus and method. 4,679,404, 7-14-87, Cl. 62-175.000.
- Alsenz, Richard H. Pulse controlled solenoid valve with low ambient start-up means. 4,686,835, 8-18-87, Cl. 62-223.000.
- Alsenz, Richard H. Refrigeration system having periodic flush cycles. 4,697,431, 10-6-87, Cl. 62-225.000.
- Alshareedah, Ebrahaem. Forged spur gear with web connected teeth. 4,677,870, 7-7-87, Cl. 74-431.000.
- Alsobrook, Lawrence C.; and Browning, Norman F. Fishing tackle management system and method. 4,691,469, 9-8-87, Cl. 43-54.100.
- Alsop, Brian H., to Westinghouse Electric Corp. Nuclear fuel rod containing a hybrid gadolinium oxide, boron carbide burnable absorber. 4,671,927, 6-9-87, Cl. 376-419.000.
- Alsop, Brian H.: *See—*
  - McAtee, Kevin R.; and Alsop, Brian H., 4,699,749, Cl. 376-216.000.
- Alster, Louis G.; and Gardner, Chester S., to Caterpillar Inc. Optical straightness gauge and method. 4,650,334, 3-17-87, Cl. 356-376.000.
- Alstetter, Franz; Schiele, Herbert; Sedlmayer, Peter; and Hultsch, Gunther, to Krauss-Maffei A.G. Apparatus and process for drying finely grained solid particles. 4,691,448, 9-8-87, Cl. 34-8.000.
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- Alsthom: *See—*
  - Bekhaled, Mohammed, 4,700,257, Cl. 361-19.000.
  - Besanceney, Michel, 4,709,582, Cl. 73-622.000.
  - Bigret, Roland, 4,662,230, Cl. 73-862.540.
  - Bozec, Rene, 4,653,277, Cl. 60-692.000.
  - Condolios, Elie, 4,710,291, Cl. 210-199.000.
  - Doyen, Gerard, 4,694,533, Cl. 16-257.000.
  - Goy, Pierre, 4,685,188, Cl. 29-446.000.
  - Lecoffre, Yves, 4,644,808, Cl. 73-866.000.
  - Nicoloso, Dante, 4,678,877, Cl. 200-148.00F.
  - Nicoloso, Dante, 4,700,029, Cl. 200-148.00B.
  - Nithart, Henri; and Graftiaux, Robert, 4,707,214, Cl. 156-392.000.
  - Obrecht, Georges; and Dreuilhe, Claude, 4,637,480, Cl. 175-45.000.
  - Obrecht, Georges, 4,694,914, Cl. 175-61.000.
  - Ollivaud, Bernard; and Lebas, Jean-Marie, 4,658,637, Cl. 73-61.300.
  - Perret, Michel, 4,650,942, Cl. 200-148.00A.
  - Pham, Van Doan, 4,698,468, Cl. 200-148.00B.
  - Pham, Van Doan; and Thuries, Edmond, 4,698,469, Cl. 200-148.00E.
  - Rodriguez, Francis; and Roblin, Jean-Paul, 4,679,824, Cl. 285-27.000.
  - Thuries, Edmond, 4,649,243, Cl. 200-148.00A.
  - Thuries, Edmond; and Perret, Michel, 4,650,941, Cl. 200-148.00A.
  - Yanabu, Satoru; Mizoguchi, Hitoshi; Ikeda, Hisatoshi; Suzuki, Katsumi; Toyoda, Mitsuru; and Thuries, Edmond, 4,665,289, Cl. 200-148.00A.
- Alsthom-Atlantique: *See—*
  - Anton, Alain, 4,680,222, Cl. 428-251.000.
  - Bouet, Jacques, 4,657,653, Cl. 204-290.00R.
  - Condolios, Elie, 4,647,372, Cl. 210-207.000.
  - Coulon, Andre; Loier, Chantal; and Badeau, Jean-Pierre, 4,689,095, Cl. 148-325.000.
  - Dumont, Pierre; and Thuries, Edmond, 4,670,973, Cl. 29-631.000.
  - Fevrier, Alain; Kermarrec, Jean-Claude; and Bottini, Gerard, 4,675,637, Cl. 336-58.000.
  - Pham, Van Doan, 4,639,565, Cl. 200-148.00A.
  - Stetter, Heinz, 4,634,340, Cl. 415-95.000.
  - Thuries, Edmond; Masson, Jean-Paul; and Malik, Louis, 4,715,834, Cl. 439-842.000.
- Alsthom and Neyrpic: *See—*
  - Lerouge, Bernard; and Jourdan, Luc, 4,668,872, Cl. 290-40.00R.
- Alston, Arthur: *See—*
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- Alston, David R.: *See—*
  - Stoddart, James F.; and Alston, David R., 4,696,918, Cl. 514-58.000.
- Alston, Julia M., to Coulter Systems Corporation. Electrostatic duplicator for multicolor imagery. 4,664,499, 5-12-87, Cl. 355-4.000.
- Alston, Lawrence E., to Polaroid Corporation. Electronic image scanner and copier system with color matrix image enhancement. 4,641,184, 2-3-87, Cl. 358-75.000.
- Alston, Lawrence E.; and Freeman, William T., to Polaroid Corporation. Image sensing and processing apparatus and method. 4,641,185, 2-3-87, Cl. 358-75.000.
- Alston, Lawrence E.; Levinstone, Donald S.; and Plummer, William T., to Polaroid Corporation. Exposure control system for an electronic imaging camera having increased dynamic range. 4,647,975, 3-3-87, Cl. 358-213.000.
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- Alt, Gerhard H.; Chupp, John P.; and Clizbe, Lane A., to Monsanto Company. Alkenyl acetamides. 4,665,228, 5-12-87, Cl. 564-152.000.
- ALTA S.p.A.: *See—*
  - Riglietti, Antonio, 4,678,122, Cl. 239-333.000.
- Altech Industries, Inc.: *See—*
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- Altemark, Detlef; Weid, Manfred; and Brockmann, Eugen, to Ruhrgas Aktiengesellschaft. Method of and system for determining the ratio between the oxygen-carrying gas content and the fuel content of a mixture. 4,659,306, 4-21-87, Cl. 431-12.000.
- Alten, Kurt. Transfer bridge. 4,670,928, 6-9-87, Cl. 14-71.300.
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- Altendorfer, Alois; Dotzauer, Ewald; and Mueller, Wolfgang, to Siemens Aktiengesellschaft. Circuit arrangement for a small PABX with a switching matrix that has electronic crosspoints. 4,638,123, 1-20-87, Cl. 379-229.000.
- Altenhofen, Jonathan M. Method and apparatus for monitoring environmental evapotranspiration. 4,709,585, 12-1-87, Cl. 73-866.400.
- Altenpohl, Paul J. Accurate weight sorting arrangement for poultry conveyor system. 4,711,344, 12-8-87, Cl. 198-504.000.
- Altenschoepfer, Theodor: *See—*
  - Jeschke, Peter; Altenschoepfer, Theodor; Jacobs, Jochen; and Schumann, Klaus, 4,690,770, Cl. 252-99.000.
  - Sung, Eric; Jeschke, Peter; Schumann, Klaus; and Altenschoepfer, Theodor, 4,692,260, Cl. 252-99.000.
- Alter, Efim. Exercise method. 4,688,789, 8-25-87, Cl. 272-70.000.
- Altera Corporation: *See—*
  - Hartmann, Robert F.; Chan, Yiu-Fai; Frankovich, Robert J.; Ou, Jung-Hsing; So, Hock C.; and Wong, Sau-Ching, 4,713,792, Cl. 364-900.000.
  - Veenstra, Kerry S., 4,677,318, Cl. 307-465.000.
- Alterbaum, Robert. Method and apparatus for use in preparation of fibrinogen from a patient's blood. 4,714,457, 12-22-87, Cl. 494-37.000.
- Altergott, William H.: *See—*
  - Seaman, Frederic D.; Rajagopal, Srinivasan; and Altergott, William H., 4,689,074, Cl. 75-0.50B.
- Altermatt, Ruedi, to Sandoz Ltd. 4-(2'-Halo-4'-nitrophenylazo)-2-2[2'-(C_{1-2}alkoxy or 2''-methoxyethoxy)ethoxycarbonylamino —N,N-di-C_{2-3}alkylanilines. 4,667,023, 5-19-87, Cl. 534-732.000.
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  - Matzkanin, Randy L., 4,706,650, Cl. 126-450.000.
- Althaus, Hans-Ludwig; Klann, Jorg; and Kuny, Wilhelm, to Siemens Aktiengesellschaft. Optical radiation source or detector device having plural radiating or receiving characteristics. 4,638,343, 1-20-87, Cl. 357-17.000.
- Althaus, Lauren B.: *See—*
  - Gallagher, Lawrence J.; Althaus, Lauren B.; Pederson, Robert J.; and Rubinstein, Benjamin, 4,662,844, Cl. 434-16.000.
  - Pederson, Robert J.; Gallagher, Lawrence J.; Miller, Jack V.; Althaus, Lauren B.; Rubinstein, Benjamin; and Schomotolocha, Stephen N., 4,664,631, Cl. 434-16.000.
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- Althouse, Victor E., to Vichem Corporation. Means for handling semiconductor die and the like. 4,667,944, 5-26-87, Cl. 269-21.000.
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- Altieri, Patricia: *See—*
  - Zollinger, Wendell D.; Boslego, John; Moran, Ellen; Brandt, Brenda; Collins, Hugh; Mandrell, Robert; Altieri, Patricia; and Berman, Sanford, 4,707,543, Cl. 530-402.000.
- Altizer, Wayne. Modular building panel. 4,674,250, 6-23-87, Cl. 52-309.700.
- Altizor, C. Clark: *See—*
  - Schultz, Roy D.; England, Thomas R.; and Altizor, C. Clark, 4,679,313, Cl. 29-596.000.
- Altman, Amnon; Theofilopoulos, Argyrios N.; Lerner, Richard A.; and Dixon, Frank J., to Scripps Clinic and Research Foundation. Antibodies to human interleukin-2 induced by synthetic polypeptides. 4,636,463, 1-13-87, Cl. 435-7.000.
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- Altman, Barry J.: *See—*
  - Cudahy, Michael J.; De La Huerga, Carlos; Arneson, Harold N.; Divers, R. Thomas; and Altman, Barry J., 4,715,385, Cl. 128-710.000.
- Altman, David A.: *See—*
  - Kimbrell, James E.; Boyd, Charles H.; Altman, David A.; Sherwood, Donald G.; and Bost, Glenn E., 4,659,539, Cl. 376-377.000.
- Altman, Denis J., to Westinghouse Electric Corp. Three-coordinate positioning apparatus for the inspection and maintenance of nuclear reactor components. 4,647,422, 3-3-87, Cl. 376-260.000.
- Altman, Denis J., to Westinghouse Electric Corp. Remotely adjustable intermediate seismic support. 4,666,657, 5-19-87, Cl. 376-234.000.
- Altman, Denis J., to Westinghouse Electric Corporation. Flow limiting head adapter extension. 4,714,584, 12-22-87, Cl. 376-353.000.
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- Altman, Janina: *See—*
  - Warshawsky, Abraham; Wilchek, Meir; Altman, Janina; and Shoef, Nurit, 4,652,519, Cl. 435-7.000.
- Altman, Lawrence J.; and Milliken, James B., to Mobil Oil Corporation. Method for determining effectiveness of catalytic dewaxing reactor. 4,700,562, 10-20-87, Cl. 73-64.000.
- Altman, Peter, to Light and Sound Specialties, Inc. Light panel. 4,680,685, 7-14-87, Cl. 362-240.000.
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  - Solomon, Dennis, 4,706,006, Cl. 318-640.000.
- Altman, Yevgeny, to Clevite Industries Inc. Hydraulic pressure fuse. 4,665,942, 5-19-87, Cl. 137-490.000.
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- Altner, Ulrich; Falb, Wolfgang; Ryschka, Martin; and Wallroth, Carl-Friedrich, to Dragerwerk Aktiengesellschaft. Overflow trap for anesthetics. 4,715,370, 12-29-87, Cl. 128-204.130.
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- Altop S.A.: *See—*
  - Jordi, Urs M., 4,705,408, Cl. 368-278.000.
- Altorfer, Alfred, to Sulzer Brothers Limited. Process for purifying chlorinated aliphatic polymers. 4,658,012, 4-14-87, Cl. 528-497.000.
- Altounian, George N.; and Grenier, Daniel, to Centre de Recherche Industrielle du Quebec. Polyesters polyols prepared from glutaric acid, succinic acid and adipic acid, and polyurethanes prepared therefrom. 4,716,213, 12-29-87, Cl. 528-283.000.
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- Altringer, Richard E.: *See—*
  - Wells, David L.; and Johnson, Allen M., 4,659,292, Cl. 417-225.000.
- Altschul, Barry: *See—*
  - Borkowski, Michael T.; Laighton, David G.; and Altschul, Barry, 4,649,416, Cl. 357-74.000.
- Altus Corporation: *See—*
  - Smith, David F.; and Wilson, J. Pierre, 4,642,275, Cl. 429-52.000.
- Altus, Mark, to 2500 Corporation, The. Retainer for automotive floor mat. 4,692,364, 9-8-87, Cl. 428-85.000.
- Altus, Mark, to 2500 Corporation, The. See-thru metallic food wrapper. 4,697,732, 10-6-87, Cl. 229-87.00F.
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- Aluisi, Alan L. Compound drum beater. 4,644,842, 2-24-87, Cl. 84-422.00R.
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  - Aldridge, Gerald T.; and Peters, Jerry L., 4,635,888, Cl. 248-231.000.
- Alumasc Limited: *See—*
  - Hyde, Roger J., 4,687,123, Cl. 222-518.000.
- Alumax, Inc.: *See—*
  - Cotter, Donald P., 4,706,434, Cl. 52-520.000.
  - Hall, Samuel R., 4,674,248, Cl. 52-212.000.
  - Koch, Alan A., 4,712,413, Cl. 72-361.000.
  - Young, Kenneth P., 4,687,042, Cl. 164-80.000.
  - Young, Kenneth P.; Tyler, Derek E.; Cheskis, Harvey P.; and Watson, W. Gary, 4,709,746, Cl. 164-485.000.
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  - Crepaldi, Giulio, 4,664,438, Cl. 296-190.000.
- Aluminium Pechiney: *See—*
  - Barra, Jean, 4,664,391, Cl. 277-13.000.
  - Barra, Jean, 4,699,716, Cl. 210-486.000.

Barra, Jean, 4,704,206, Cl. 210-331.000.
Casdas, Spyridon; Langon, Bernard; and Michard, Laurent, 4,654,133, Cl. 204-243.00M.
Chaffy, Joseph; and Langon, Bernard, 4,696,730, Cl. 204-243.00M.
Chaffy, Joseph; Langon, Bernard; and Leroy, Michel, 4,713,161, Cl. 204-243.00M.
Chantrieux, Eric; Grobelny, Henri; and Perret, Yves, 4,666,687, Cl. 423-127.000.
Duprat, George; Langon, Bernard; and Sulmont, Benoit, 4,668,352, Cl. 204-67.000.
Guillermet, Robert; Ladet, Michel; Laslaz, Gerard; and Le Bars, Claude, 4,681,665, Cl. 204-14.100.
Hanrot, Jean-Pascal; and Volpeliere, Jacky, 4,659,263, Cl. 406-89.000.
Hanrot, Jean-Pascal; and Volpeliere, Jacky, 4,692,068, Cl. 406-89.000.
Huret, Noel; and Meunier, Jean, 4,650,644, Cl. 419-11.000.
Lepetit, Jean, 4,647,439, Cl. 423-121.000.
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Maurel, Pierre; Lamerant, Jean-Michel; and Pallez, Francois, 4,634,579, Cl. 423-17.000.
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Adomaitis, Paul R.; Brouwer, Nicholaas L.; and Hobi, Bernard J., 4,675,730, Cl. 358-106.000.
Bretz, Philip E.; Petit, Jocelyn I.; Sawtell, Ralph R.; and Vasudevan, Asuri K., 4,693,747, Cl. 75-249.000.
Brouwer, Nicholaas L.; Urbanic, John M.; and Anderson, Albert R., 4,659,234, Cl. 374-121.000.
Brown, Melvin H., 4,647,272, Cl. 417-109.000.
Brown, Melvin H., 4,666,377, Cl. 417-53.000.
Brown, Melvin H., 4,678,548, Cl. 204-67.000.
Brown, Melvin H., 4,685,514, Cl. 165-177.000.
Brown, Melvin H., 4,702,181, Cl. 110-264.000.
Brown, Melvin H., 4,702,312, Cl. 165-179.000.
Bush, J. Finley; and Mydock, Donald R., 4,686,198, Cl. 502-25.000.
Christini, Roy A.; and Frizzell, Kenneth P., 4,695,320, Cl. 75-67.00A.
Cisko, Lawrence W., 4,669,606, Cl. 198-748.000.
Clowes, Ernest J., 4,685,322, Cl. 72-348.000.
Davidson, John J., 4,676,881, Cl. 204-212.000.
DeHart, Dwain L., 4,687,884, Cl. 174-130.000.
Eckert, Charles E., 4,634,559, Cl. 261-76.000.
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Eckert, Charles E.; and Miller, Ronald E., 4,689,199, Cl. 420-590.000.
Eckert, Charles E., 4,714,494, Cl. 75-66.000.
Ellis, Darwin L.; and Kelly, Frank M., 4,633,646, Cl. 53-331.500.
Ellis, Darwin L.; and McKee, Kyle, 4,674,264, Cl. 53-331.500.
Ellis, Darwin L., 4,700,745, Cl. 137-625.110.
Evert, Robert P.; and Miller, James A., 4,704,886, Cl. 72-57.000.
Fleming, Hubert L.; Edd, Jon F.; Pearson, Alan; Chou, Chin-Liang; Kono, Hisashi O.; and Huang, Ching-Chung, 4,704,378, Cl. 502-355.000.
Granger, Douglas A., 4,715,901, Cl. 148-2.000.
Grubbs, Donald K., 4,661,328, Cl. 423-121.000.
Hawkins, Ronald G., 4,680,424, Cl. 174-42.000.
Hawkins, Ronald G., 4,714,799, Cl. 174-42.000.
Hochbein, David E., 4,677,727, Cl. 29-402.060.
Hornack, Thomas R.; and Brown, Melvin H., 4,705,106, Cl. 165-179.000.
Hovland, Lyle W., 4,667,581, Cl. 98-37.000.
Huet, Roger, 4,714,588, Cl. 420-534.000.
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Kelly, Frank M., 4,674,263, Cl. 53-317.000.
Kersker, Michael M.; Truckner, William G.; Granger, Douglas A.; and Rooy, Elwin L., 4,681,736, Cl. 420-535.000.
Knapp, David J.; Waltz, Marion D.; and Clarke, David W., 4,660,586, Cl. 137-2.000.
Knapp, David J.; and Waltz, Marion D., 4,678,023, Cl. 164-452.000.
LaBarge, Robert L.; and Heffner, Robert E., 4,648,528, Cl. 220-240.000.
LaBarge, Robert L.; and Maier, Frank E., 4,678,096, Cl. 220-273.000.
LaBarge, Robert L.; and Heffner, Robert E., 4,685,849, Cl. 413-22.000.
La Barge, Robert L.; and Ewing, Ronald J., 4,688,316, Cl. 29-432.000.
Laemmle, Joseph T.; Bohaychick, John; and Lansdale, Willie, 4,634,469, Cl. 106-38.240.
Laemmle, Joseph T.; and Bohaychick, John, 4,670,168, Cl. 252-42.000.
Levendusky, Thomas L.; and Benson, Arthur, 4,689,458, Cl. 219-10.55E.
Levendusky, Thomas L.; Benson, Arthur; and Lunden, Richard W., 4,705,927, Cl. 219-10.55E.
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Martin, Robert J., 4,667,501, Cl. 72-403.000.
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Musselman, Lawrence L.; and Levendusky, Thomas L., 4,711,673, Cl. 106-287.170.
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Ramsey, Everett M.; Gray, Bruce A.; and Evans, Donald C., 4,715,810, Cl. 432-8.000.
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Ray, Siba P., 4,698,319, Cl. 501-87.000.
Rogers, Elmer H., Jr., 4,660,264, Cl. 29-157.400.
Roha, Max E., 4,714,567, Cl. 252-315.200.
Sawtell, Ralph R.; Bretz, Philip E.; and Jensen, Craig L., 4,689,090, Cl. 148-2.000.
Sedlacek, Edward A., 4,699,200, Cl. 164-268.000.
Sood, Ajay; and Marra, Robert A., 4,678,657, Cl. 423-600.000.
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The, Paul J.; and Misra, Chanakya, 4,678,477, Cl. 23-305.00A.
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Vernam, William D.; and Lifka, Bernard W., 4,711,762, Cl. 420-532.000.
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Alvarez, Antonio J., to Technical Equipment Systems, Inc. Apparatus and process for the fluidization and combustion of fuels. 4,658,591, 4-21-87, Cl. 60-670.000.
Alvarez, Bernard V. Gaseous flow control for combustion devices. 4,691,686, 9-8-87, Cl. 126-77.000.
Alvarez-Icaza, Luis L.: *See*—
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Alvarez, Jorge A. Toy automobile and filling station set. 4,701,150, 10-20-87, Cl. 446-423.000.
Alvarez, Ramon A. Mobile radiator shop. 4,688,308, 8-25-87, Cl. 29-33.00R.
Alvarez, Robert; Lehmann, Leonard; and Strul, Bruno, to DigiRad Corporation. Apparatus and method for measuring light transmittance or reflectance. 4,710,624, 12-1-87, Cl. 250-228.000.
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Alves, Dario M. Tamper-proof package and method. 4,648,509, 3-10-87, Cl. 206-459.000.
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Alvila, Leila; Krause, Outi; Pakkanen, Tapani; and Joutsimo, Matteus, to Neste OY. Catalyst for producing alcohol from olefins by hydroformylation. 4,652,539, 3-24-87, Cl. 502-74.000.
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tion of sulfone-containing polymers. 4,642,170, 2-10-87, Cl. 204-181.400.

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Alvis, John R.; and Holland, Orin W. Suppression of hillock growth through multiple thermal cycles by argon implantation. 4,704,367, 11-3-87, Cl. 437-24.000.

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Alyfuku, Kiyoshi, to Canon Kabushiki Kaisha. Camera. 4,636,055, 1-13-87, Cl. 354-465.000.

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  Ayer, Atul D., 4,693,886, Cl. 424-15.000.
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  Carpenter, Peter F., 4,692,144, Cl. 604-56.000.
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  Eckenhoff, James B.; Theeuwes, Felix; and Deters, Joseph C., 4,663,148, Cl. 424-454.000.
  Eckenhoff, James B.; Theeuwes, Felix; and Deters, Joseph C., 4,663,149, Cl. 424-452.000.
  Eckenhoff, James B., 4,675,174, Cl. 424-15.000.
  Eckenhoff, James B.; Theeuwes, Felix; and Deters, Joseph C., 4,678,467, Cl. 604-892.000.
  Eckenhoff, James B.; Cortese, Richard; and Landrau, Felix A., 4,684,524, Cl. 424-469.000.
  Eckenhoff, James B.; Theeuwes, Felix; and Deters, Joseph C., 4,692,326, Cl. 424-413.000.
  Eckenhoff, James B.; Cortese, Richard; and Landrau, Felix A., 4,692,336, Cl. 424-468.000.
  Eckenhoff, James B., 4,704,118, Cl. 604-892.000.
  Eckenhoff, James B.; Theeuwes, Felix; and Deters, Joseph C., 4,716,031, Cl. 424-453.000.
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  Gale, Robert M., 4,661,105, Cl. 604-897.000.
  Gale, Robert M.; and Berggren, Randall G., 4,681,584, Cl. 604-897.000.
  Gale, Robert M.; and Berggren, Randall, 4,698,062, Cl. 604-896.000.
  Guittard, George V.; Deters, Joseph C.; Theeuwes, Felix; and Cortese, Richard, 4,673,405, Cl. 604-890.000.
  Hamel, L. G.; Landrau, Felix A.; Wong, Patrick S. L.; and Guittard, George V., 4,662,880, Cl. 604-892.000.
  Shaw, Jane; and Gale, Robert M., 4,650,484, Cl. 604-897.000.
  Shaw, Jane; and Gale, Robert M., 4,704,119, Cl. 604-897.000.
  Theeuwes, Felix; and Eckenhoff, James B., 4,655,766, Cl. 604-896.000.
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  Urquhart, John; and Theeuwes, Felix, 4,649,043, Cl. 424-469.000.
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  Urquhart, John; and Theeuwes, Felix, 4,664,650, Cl. 604-85.000.
  Urquhart, John; and Theeuwes, Felix, 4,681,583, Cl. 604-892.000.
  Wong, Patrick S. L.; and Theeuwes, Felix, 4,693,895, Cl. 424-473.000.
  Wong, Patrick S. L.; and Theeuwes, Felix, 4,705,515, Cl. 604-892.000.

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AM General Corporation: *See—*
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  Goodell, Fred L.; and Ellison, Michael J., 4,709,738, Cl. 152-400.000.
  Sanborn, Steven L.; and Neumeyer, Martin J., 4,686,888, Cl. 89-37.130.

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  Goodwin, Eber L.; and Zeigler, James E., 4,667,949, Cl. 271-207.000.
  Goodwin, Eber L., 4,677,912, Cl. 101-365.000.
  Kiener, Michael A., 4,678,597, Cl. 252-100.000.
  Schlough, James R., 4,708,277, Cl. 227-88.000.
  Witczak, Stanley; and Gasner, Earl L., 4,682,543, Cl. 101-350.000.

AM/KEMI A/S: *See—*
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AMA Universal S.p.A.: *See—*
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  Ikeda, Hidekatsu; Morikawa, Hiroyuki; and Yoshie, Yasunori, 4,700,441, Cl. 29-33.00P.
  Katoh, Taro, 4,674,624, Cl. 198-621.000.
  Kogure, Tsuneo; Tsuchiyama, Yuji; Amano, Tadashi; Takahashi, Hideaki; Sekita, Katsuji; and Akami, Ichio, 4,656,862, Cl. 72-443.000.
  Kogure, Tsuneo; Tsuchiyama, Yuji; Amano, Tadashi; Takahashi, Hideaki; Sekita, Katsuji; and Akami, Ichio, 4,672,831, Cl. 72-21.000.
  Konno, Masanori; Imai, Kiyoshi; and Dobashi, Toshihiro, 4,673,791, Cl. 219-69.00M.
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  Kono, Shigeyoshi; Tsutsui, Yoshimitsu; Koshiji, Fumio; and Sawayanagi, Tomohiko, 4,669,298, Cl. 72-453.130.
  Koyama, Shigeo; and Sakamoto, Katsuyoshi, 4,656,861, Cl. 72-323.000.
  Koyama, Shigeo; and Sakamoto, Katsuyoshi, 4,658,625, Cl. 72-322.000.
  Oishi, Yuji, 4,644,549, Cl. 372-38.000.
  Okubo, Yasumi; and Morino, Asami, 4,703,143, Cl. 219-69.00W.
  Sadahiro, Toru; Taguchi, Masayuki; Tokiwa, Toru; and Terajima, Takeshi, 4,674,374, Cl. 83-62.100.
  Sakamoto, Katsuyoshi, 4,680,955, Cl. 72-462.000.
  Tadashi, Hirata; Yoshirou, Satou; and Yoshimitsu, Tsutsui, 4,682,401, Cl. 29-568.000.
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  Yokomichi, Shigeharu; and Ono, Yasunori, 4,675,492, Cl. 219-69.00W.

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  Gondou, Takafumi; Amada, Eiichi; and Asano, Kenichi, 4,665,507, Cl. 365-190.000.

Amada Engineering & Service Co., Inc.: *See—*
  Fukae, Kenneth, 4,653,061, Cl. 372-66.000.
  Koseki, Ryoji, 4,641,314, Cl. 372-65.000.
  Koseki, Ryoji, 4,646,310, Cl. 372-58.000.
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  Lee, Chun-Shen, 4,715,040, Cl. 372-98.000.
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  Lim, Gnian C., 4,692,664, Cl. 315-60.000.
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  Satoh, Masao, 4,641,516, Cl. 72-481.000.

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- Amaike, Toshiyuki: *See—*
  - Goto, Shinichi; and Amaike, Toshiyuki, 4,658,981, Cl. 220-338.000.
- Amakawa, Katsumi: *See—*
  - Kai, Masami; Kurando, Shigeo; Katafuchi, Toshinobu; Amakawa, Katsumi; and Kajitani, Tetsuji, 4,659,206, Cl. 355-3.0DR.
- Amalgamated Mining & Trading Limited: *See—*
  - Caudle, Graham, 4,671,785, Cl. 493-160.000.
- Amalgamated Software of North America, Inc.: *See—*
  - Ferguson, David E., 4,677,550, Cl. 364-300.000.
- Amalric, Jean: *See—*
  - Esteve, Gerard; and Amalric, Jean, 4,670,016, Cl. 8-94.160.
  - Walter, Jean-Jacques; Petit, Daniel; Marzocca, Joseph; Amalric, Jean; and Bernard, Georges, 4,697,055, Cl. 200-148.00B.
- Amana Refrigeration, Inc.: *See—*
  - DeHaan, Robert; and Raudabaugh, James H., 4,653,466, Cl. 126-110.00R.
  - Pink, John J., 4,671,078, Cl. 62-408.000.
  - Pink, John J., 4,678,247, Cl. 312-116.000.
- Amaniera, John A.: *See—*
  - Hanson, Harvey E.; and Amaniera, John A., 4,638,603, Cl. 51-219.00R.
- Amann, Hans; and Bath, Axel, to Preussag Aktiengesellschaft. Device for collecting manganese nodules on the ocean floor. 4,652,055, 3-24-87, Cl. 299-8.000.
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  - Baechler, Theodor; and Amann, Josef, 4,643,071, Cl. 89-1.701.
- Amann, Klaus: *See—*
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- Amano, Hisao: *See—*
  - Kimura, Shin; Fukui, Hiroshi; Amano, Hisao; Yatsuo, Tsutomu; Oikawa, Saburo; and Nagano, Takahiro, 4,646,122, Cl. 357-38.000.
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- Amano, Itaru: *See—*
  - Nakagawa, Kazuhiko; Amano, Itaru; and Fujieda, Yasuhiko, 4,670,209, Cl. 264-315.000.
  - Yokoyama, Kageki; and Amano, Itaru, 4,686,129, Cl. 425-47.000.
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- Amano, Keijirou: *See—*
  - Takahashi, Yukio; Hayase, Isao; Amano, Keijirou; Mizukami, Masao; and Ishiguri, Masaaki, 4,711,620, Cl. 418-96.000.
- Amano, Ken; and Inoue, Kotaro, to Hitachi, Ltd. Fuel assembly for fast reactors. 4,654,193, 3-31-87, Cl. 376-436.000.
- Amano, Kenichiro: *See—*
  - Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Kiuchi, Masayoshi; and Amano, Kenichiro, 4,685,789, Cl. 354-173.110.
- Amano, Masao, to Kabushiki Kaisha Toshiba. Air supply adjusting mechanism for air conditioner. 4,653,384, 3-31-87, Cl. 98-40.300.
- Amano, Matsuo; Shida, Masami; Sakamoto, Masahide; Hirayama, Takeshi; and Sasayama, Takao, to Hitachi, Ltd. Method controlling air-fuel ratio. 4,703,430, 10-27-87, Cl. 364-431.050.
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- Amano, Naoki: *See—*
  - Kamura, Yukio; Nakano, Seizo; Tsubaki, Tohru; Miwada, Satoshi; and Amano, Naoki, 4,658,329, Cl. 361-332.000.
- Amano Pharmaceutical Co., Ltd.: *See—*
  - Itoh, Nobuya; and Matsunaga, Kuniyoshi, 4,636,465, Cl. 435-15.000.
  - Ryohei, Yamamoto; Shigeki, Kimura; and Akira, Matsuura, 4,692,330, Cl. 424-85.000.
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- Amano, Satoru, to Hoya Corporation. Solid-state laser device capable of effectively exciting a plurality of slab-shaped laser media. 4,697,271, 9-29-87, Cl. 372-68.000.
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  - Kogure, Tsuneo; Tsuchiyama, Yuji; Amano, Tadashi; Takahashi, Hideaki; Sekita, Katsuji; and Akami, Ichio, 4,656,862, Cl. 72-443.000.
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- Amano, Takehiro: *See—*
  - Migita, Yoshihiro; Eguchi, Tadashi; Kumazawa, Yukinari Nakagami, Jozi; Amano, Takehiro; Sota, Kaoru; and Sakakibara Jinsaku, 4,686,292, Cl. 544-343.000.
- Amano, Tooru: *See—*
  - Nishiwaki, Mitsuo; Amano, Tooru; Yasuda, Tooru; Okubo, Sakae; and Mukawa, Naoki, 4,688,233, Cl. 375-58.000.
- Amano, Toshihiko: *See—*
  - Fujii, Tsuneo; Inukai, Hiroshi; Deguchi, Takayuki; Amano, Toshihiko; Kakuchi, Masami; Asakawa, Hiroshi; and Kogure, Osamu, 4,686,168, Cl. 430-326.000.
  - Nakagawa, Shinichi; Nakagawa, Tsuneo; Amano, Toshihiko; Omori, Mitsugu; Yamaguchi, Sadaatsu; and Asano, Kozo, 4,703,095, Cl. 526-247.000.
- Amano, Toshio: *See—*
  - Sugisawa, Ko; Yamamoto, Masanori; Yasuda, Ataushi; Nomura, Yukihiro; and Amano, Toshio, 4,687,739, Cl. 435-69.000.
- Amano, Yoshiaki: *See—*
  - Ohyauchi, Hideo; Amano, Yoshiaki; and Yokoyama, Eiji, 4,693,945, Cl. 429-21.000.
- Amao, Nobuyoshi; Takahashi, Yoshihisa; and Yokomizo, Hitoshi, to Sanyo Electric Co. Ltd.; and Kumagaya Seimitsu Co., Ltd. Brushless motor. 4,668,884, 5-26-87, Cl. 310-68.00R.
- Amaray International Corporation: *See—*
  - Northrup, Allan R.; and Tomkinson, John G., 4,640,416, Cl. 206-425.000.
- Amari, Mitsuhiro: *See—*
  - Nishi, Tomoya; Amari, Mitsuhiro; and Suzuki, Kenji, 4,707,153, Cl. 400-121.000.
- Amari, Takaaki: *See—*
  - Takezono, Tetsuya; Amari, Takaaki; and Imai, Hirosuke, 4,645,576, Cl. 203-30.000.
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- Amark Industries, Inc.: *See—*
  - Williams, David E.; and Hoyt, Edwin D., 4,695,703, Cl. 219-212.000.
- Amasek, Inc.: *See—*
  - Stewart, E. Allen, III; and Keesling, Evan L., 4,638,621, Cl. 56-9.000.
- Amatech Corporation: *See—*
  - Van Steenburg, Kip, 4,698,837, Cl. 378-208.000.
- Amato, Vincent V.: *See—*
  - Germino, Felix J.; and Amato, Vincent V., 4,670,270, Cl. 426-89.000.
  - Germino, Felix J.; and Amato, Vincent V., 4,671,963, Cl. 426-89.000.
- Amatsu, Masashi; Yanase, Takeyasu; Inoue, Hiroshi; and Nakagawa, Yusuke, to Fujitsu Limited. Magnetic bubble memory device. 4,698,786, 10-6-87, Cl. 365-39.000.
- Amatsu, Takeo: *See—*
  - Oka, Masataka; Furukawa, Masami; Kojima, Shinji; and Amatsu, Takeo, 4,650,818, Cl. 523-205.000.
- Amax Inc.: *See—*
  - Cameron, Thomas B.; Swanson, Wilbur W.; Tartaglia, John M.; and Cox, Thomas B., 4,713,111, Cl. 75-68.00R.
  - Carpenter, Kent H.; and Sebenik, Roger F., 4,659,376, Cl. 75-84.000.
  - Cook, Edward, 4,666,474, Cl. 55-137.000.
  - Smit, Francis J.; Horst, William E.; and Bhasin, Anirudh K., 4,713,086, Cl. 44-51.000.
  - Wada, Tsuguyasu; Eldis, George T.; and Albright, Darryl L., 4,657,065, Cl. 164-461.000.

  - Wada, Tsuguyasu; Adenis, Daniel J.; and Cox, Thomas B., 4,662,429, Cl. 164-461.000.
  - Whelan, Edward P.; and Kalns, Eric, 4,657,735, Cl. 420-429.000.
  - Wiewiorowski, Edward I., 4,666,685, Cl. 423-55.000.
  - Wiewiorowski, Edward I.; Tinnin, Luther R.; and Crnojevich, Ranko, 4,670,229, Cl. 423-55.000.
  - Zibrida, John F., 4,657,680, Cl. 210-713.000.
  - Zibrida, John F., 4,689,156, Cl. 210-747.000.
  - Zibrida, John F., 4,698,163, Cl. 210-713.000.
- Amaya, Armando: *See—*
  - Bayless, Gary L.; and Amaya, Armando, 4,662,096, Cl. 40-607.000.
- Amaya, German, to Brunswick Corporation. Rapid sintering feedstock for injection molding of stainless steel parts. 4,708,741, 11-24-87, Cl. 75-251.000.
- Amaya, Naoyuki: *See—*
  - Otsu, Takayuki; Murata, Yoshishige; and Amaya, Naoyuki, 4,670,520, Cl. 528-503.000.
- Amaya, Yoshio: *See—*
  - Fuchi, Ikuo; Arai, Takashi; and Amaya, Yoshio, 4,660,953, Cl. 354-286.000.
- Amazaki, Mitsuhiro: *See—*
  - Yoshikawa, Seiji; Sato, Isao; Nakayama, Shigenori; and Amazaki, Mitsuhiro, 4,697,498, Cl. 91-420.000.
- Amazawa, Kiyoshi; and Mori, Akira, to Clarion Co., Ltd. Noise eliminating signal compensation circuit. 4,682,045, 7-21-87, Cl. 307-125.000.
- Amazawa, Kiyoshi; and Mori, Akira, to Clarion Co., Ltd. Preceding value holding gate circuit for eliminating pulsive noises. 4,701,715, 10-20-87, Cl. 328-165.000.
- Amazawa, Kiyoshi: *See—*
  - Tanaka, Kouichi; Kuwajima, Takeshi; and Amazawa, Kiyoshi, 4,634,902, Cl. 307-542.000
  - Tanaka, Kouichi; Kuwajima, Takeshi; and Amazawa, Kiyoshi, 4,680,792, Cl. 381-12.000
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- Amazonen-Werke H. Dreyer GmbH & Co. KG: *See—*
  - Dreyer, Heinz; Scheufler, Bernd; Wiemeyer, Benno; and Luhrmann, Johannes, 4,694,759, Cl. 111-85.000
  - Grosse-Scharmann, Franz; Gattermann, Bernd; and Gehrke, Rudolf, 4,646,941, Cl. 222-23.000.
  - Harrsen, Jan; Grosse-Scharmann, Franz; and Gattermann, Bernd, 4,651,331, Cl. 377-6.000.
  - Harrsen, Jan; Grosse-Scharmann, Franz; and Gattermann, Bernd, 4,675,520, Cl. 250-222.200
- AMB Technology, Inc.: *See—*
  - Kurzinski, Cass R., 4,669,525, Cl. 164-416.000
- Ambach, Eberhard: *See—*
  - Hoelderich, Wolfgang; Biffar, Werner; Irgang, Matthias; Mross, Wolf D.; Kroener, Michael; and Ambach, Eberhard, 4,711,930, Cl. 502-209.000.
- Ambal, Gilbert, to I.T.W. de France. Releasable assembly for connecting bag members. 4,673,070, 6-16-87, Cl. 190-108.000.
- Ambal, Gilbert, to ITW de France, D.A. Locking foot for securement to support. 4,683,611, 8-4-87, Cl. 16-225.000.
- Ambasz, Emilio. Flexible pen with sliding sleeve. 4,679,954, 7-14-87, Cl 401-117.000.
- Amberg, Karl-Heinz; and Kammerer, Joachim, to Carl-Zeiss-Stiftung. Thermal insulation for heat sensitive lens elements. 4,668,048, 5-26-87, Cl. 350-253.000.
- Amberg Messtechnik AG: *See—*
  - Amberg, Rudolf; and Alder, Werner, 4,697,921, Cl. 356-15.000.
- Amberg, Rudolf; and Alder, Werner, to Amberg Messtechnik AG. Device for detecting a relative change in distance between two measuring points, and its use. 4,697,921, 10-6-87, Cl. 356-15.000.
- Amberger Kaolinwerke GmbH: *See—*
  - Donhauser, Friedrich; Schoengen, Anton; Schroeder, Johann H.; and Porschen, Jorg, 4,707,274, Cl. 210-774.000.
- Ambience, Inc.: *See—*
  - Bergstrom, Jerice; and Bergstrom, Jon, 4,674,662, Cl. 222-399.000.
- Amblard, Albert. Apparatus for drilling into a pipe under pressure. 4,648,422, 3-10-87, Cl. 137-318.000.
- Ambo, Tatsuaki: *See—*
  - Okado, Chihiro; Ichimura, Kazushi; and Ambo, Tatsuaki, 4,646,222, Cl. 363-56.000.
- Ambos, Hans D.; Cain, Michael E.; and Sobel, Burton E., to Washington University. Method and apparatus for analyzing electrocardiographic signals. 4,680,708, 7-14-87, Cl. 364-417.000.
- Ambos, Rene; Quagliaro, Gilles; and Fertil, Alain, to Thomson CSF. Surface wave dispersive filter spectrum analyzer. 4,716,362, 12-29-87, Cl. 324-77.00B.
- mboss, Kurt, to Hughes Aircraft Company. Metal-to-ceramic butt seal with improved mechanical properties. 4,656,393, 4-7-87, Cl. 315-5.380.
- mboss, Kurt, to Hughes Aircraft Company. Magnetic circuit for periodic-permanent-magnet focused TWTS. 4,668,893, 5-26-87, Cl. 315-3.500.
- mboss, Kurt, to Hughes Aircraft Company. High voltage feedthrough for ion pump. 4,687,417, 8-18-87, Cl. 417-49.000.
- mbridge, Mark R.: *See—*
  - Ambridge, Richard J.; Ambridge, Mark R.; and Ambridge, Timothy L., 4,664,585, Cl. 414-563.000.
- nbridge, Richard J.; Ambridge, Mark R.; and Ambridge, Timothy L. Towing vehicle. 4,664,585, 5-12-87, Cl. 414-563.000.
- Ambridge, Timothy L.: *See—*
  - Ambridge, Richard J.; Ambridge, Mark R.; and Ambridge, Timothy L., 4,664,585, Cl. 414-563.000.
- Ambro, Joseph H.; and Contois, Lawrence E., to Eastman Kodak Company. Color proofing method and article. 4,657,831, 4-14-87, Cl. 430-14.000.
- Ambroise, Jean; Murat, Michel; and Pera, Jean, to Institut National des Sciences Appliquees de Lyon. Composite material for construction purposes based on pozzuolanas and glass fibers and processes for manufacturing same. 4,689,084, 8-25-87, Cl. 106-99.000.
- Ambrose, Charles J. Apparatus and method for packaging delicate articles. 4,653,251, 3-31-87, Cl. 53-434.000.
- Ambrose, Clarence M., to C. M. Ambrose Company. Conical fluid nozzle. 4,653,549, 3-31-87, Cl. 141-5.000.
- Ambrose, Ronald R.; Blackburn, William P.; Porter, Samuel, Jr.; and Waite, Nancy J., to PPG Industries, Inc. Color plus clear application of high solids thermosetting coating compositions containing epoxy-functional polyurethanes. 4,699,814, 10-13-87, Cl. 427-407.100.
- Ambrose, Ronald R.: *See—*
  - Chang, Wen H.; Prucnal, Paul J.; Peffer, John R.; Dufford, Edward L.; and Ambrose, Ronald R., 4,714,738, Cl. 525-58.000.
- Ambrose, William. *See—*
  - Perten, Herbert; and Ambrose, William, 4,706,131, Cl. 358-302.000.
- Ambrose, William A.; and Garcia, Fernando A., to American Hospital Supply Corporation. Hypodermic syringe having a protective sheath cover. 4,636,201, 1-13-87, Cl. 604-192.000.
- Ambrosiani, Vincent F.: *See—*
  - Lassiter, B. Dean; and Ambrosiani, Vincent F., 4,690,847, Cl. 428-71.000.
- Ambrosio, Renato; Brosio, Alberto; Fausone, Alfredo; and Tofanelli, Adler, to SIP-Societa Italiana per l'Esercizio Telefonica p.a. Bidirectional digital transmission system with echo-cancellation. 4,713,803, 12-15-87, Cl. 370-32.100.
- Ambrosius, Klaus: *See—*
  - Esselborn, Reiner; Ambrosius, Klaus; Graetz, Hans-Joachim; and Letsch, Manfred, 4,668,570, Cl. 428-324.000.
- Ambrosius, William H., III; and Rossean, Larry D., to Western Digital Corporation. Chip topography for a MOS disk memory controller circuit. 4,649,474, 3-10-87, Cl. 364-200.000.
- Ambrozaitis, John: *See—*
  - Mazzamauro, Robert; and Ambrozaitis, John, 4,661,813, Cl. 340-815.260.
- Ambrozaitis, John J.: *See—*
  - Hart, Robert D.; and Ambrozaitis, John J., 4,694,599, Cl. 40-449.000
- Ambrus, Clara M.; and Horvath, Csaba. Blood purification. 4,714,556, 12-22-87, Cl. 210-638.000.
- Amburgey, Jay D. Bowling ball. 4,655,454, 4-7-87, Cl. 273-63.00E.
- Amburn, James M.: *See—*
  - Raterman, Donald E.; and Amburn, James M., 4,693,428, Cl. 241-167.000.
- AMCA International: *See—*
  - Hodges, Robert E.; Bell, John R., III; and Helgesen, Peter E., 4,651,489, Cl. 52-409.000.
- AMCA International Corporation: *See—*
  - Bell, John R., III; Hodges, Robert E., Jr.; and Martin, Harold E., 4,676,042, Cl. 52-543.000.
  - Conners, John P., 4,688,191, Cl. 364-900.000.
  - Fenn, Ronald L.; and Romanowitz, Harold M., 4,642,017, Cl. 414-348.000.
  - Plummer, Harvey R., 4,648,757, Cl. 408-12.000.
- AMCA International Limited: *See—*
  - Wildey, Allan J., 4,635,859, Cl. 241-21.000.
- Amchem Products, Inc.: *See—*
  - Ahmed, Bashir M., 4,647,480, Cl. 427-341.000
  - Dollman, David Y.; and McMillen, Mark W., 4,668,305, Cl. 148-6.160.
  - Dollman, David Y., 4,668,421, Cl. 252-136.000.
  - Donofrio, John J., 4,643,778, Cl. 148-6.15R.
  - Hall, Wilbur S., 4,637,839, Cl. 148-6.200.
  - Halterman, Diane; and Henley, Thomas, 4,707,273, Cl. 210-724.000.
  - Holyk, Nestor M., 4,661,385, Cl. 427-345.000.
  - Miyamoto, Satoshi; and Nagatani, Masamichi, 4,639,295, Cl. 204-38.100.
  - Schoener, Glenn C.; Hess, Susan V.; and Potcner, Jayne E., 4,647,347, Cl. 204-37.600.
- Amco Corporation: *See—*
  - Kulbersh, Irwin, 4,685,575, Cl. 211-90.000.
  - Kulbersh, Irwin, 4,715,741, Cl. 403-389.000.
- Amco Industries, Inc.: *See—*
  - Sirota, Gabriel J., 4,709,953, Cl. 294-106.000.
- Amcor Ltd.: *See—*
  - Movshovitz, Avner; and Shwarzman, Joel, 4,635,395, Cl. 49-78.000.
- Amdahl, Carlton G.: *See—*
  - Lee, James C. K.; Amdahl, Gene M.; Amdahl, Carlton G.; and Beck, Richard L., 4,667,220, Cl. 357-68.000.
- Amdahl Corporation: *See—*
  - Dewey, Loren G., 4,679,195, Cl. 371-29.000.
  - Lee, Hsiao-Peng S.; Rawlinson, Stephen J.; and Si, Stephen S., 4,685,058, Cl. 364-200.000.
  - Lee, Hsiao-Peng S.; and Spannagel, Ulrich, 4,697,250, Cl. 364-900.000.
  - Lee, Hsiao-Peng S.; Rawlinson, Stephen J.; and Si, Stephen S. C., 4,707,783, Cl. 364-200.000.
  - Price, John E.; and De Clue, Larry W., 4,675,553, Cl. 307-455.000.
  - Price, John E.; and De Clue, Larry W., 4,680,486, Cl. 307-475.000.

  - Venkatesh, Venkatramiah; and Maier, Robert M., 4,661,953, Cl. 371-16.000.
  - Woffinden, Gary A.; and Petolino, Joseph A., Jr., 4,651,321, Cl. 371-38.000.
  - Woffinden, Gary A., 4,654,790, Cl. 364-200.000.
  - Woffinden, Gary A.; and Hanson, Donald L., 4,682,281, Cl. 364-200.000.
- Amdahl, Gene M.: *See—*
  - Lee, James C. K.; Amdahl, Gene M.; Beck, Richard L.; Quinn, Robert F.; and Sochor, Jerzy R., 4,667,219, Cl. 357-68.000.
  - Lee, James C. K.; Amdahl, Gene M.; Amdahl, Carlton G.; and Beck, Richard L., 4,667,220, Cl. 357-68.000.
- Amdur, Benjamin H.; Riley, Edwin J.; and Sozio, Ralph B., to Forsyth Dental Infirmary for Children. Porcelain products and methods. 4,645,454, 2-24-87, Cl. 433-199.100.
- Amdur, Benjamin H.; Riley, Edwin J.; and Sozio, Ralph B., to Forsyth Dental Infirmary for Children. Organic liquid binder composition for porcelain powders. 4,704,164, 11-3-87, Cl. 106-35.000.
- Ameco A/S: *See—*
  - Lund, Ivar, 4,644,932, Cl. 126-343.50A.
- Ameda AG: *See—*
  - Schlensog, Klaus; Beer, Christian; and Riedweg, Robert, 4,673,388, Cl. 604-74.000.
- Ameda, Kazuhiro: *See—*
  - Moriizumi, Ryoji; Suzuki, Yoichi; and Ameda, Kazuhiro, 4,638,883, Cl. 180-324.000.
- Ameling, Bernhard, to Thies GmbH & Co. Process and apparatus for the drying of textile material. 4,649,653, 3-17-87, Cl. 34-10.000.
- Ameling, Dale P.: *See—*
  - Clark, Ronnie W.; and Ameling, Dale P., 4,684,352, Cl. 445-7.000.
- Amelio, William J.; Hume, David W.; McBride, Donald G.; and Rickert, Robert G., to International Business Machines Corporation. Process for preparing a substrate for subsequent electroless deposition of a metal. 4,639,380, 1-27-87, Cl. 427-97.000.
- Amelio, William J.; Markovich, Voya; Sambucetti, Carlos J.; and Trevitt, Donna J., to International Business Machines Corporation. Process for determining the plating activity of an electroless plating bath. 4,654,126, 3-31-87, Cl. 204-1.00T.
- Amelio, William J.; Bartolotta, Peter G.; Markovich, Voya; and Parsons, Ralph E., to International Business Machines Corporation. Electroless copper plating bath and improved stability. 4,655,833, 4-7-87, Cl. 106-1.230.
- Amelot, Bernard: *See—*
  - Savall, Jose; Parmentier, Claude; and Amelot, Bernard, 4,707,890, Cl. 24-122.600.
- Amelung, Kurt; and Peters, Manfred, to Buhler-Miag GmbH. Hurdle for malthouses and other material-handling spaces. 4,667,420, 5-26-87, Cl. 34-233.000.
- Amemiya, Ikuzo: *See—*
  - Goto, Hajime; Amemiya, Ikuzo; Nakayama, Masanobu; and Hatano, Yoshinobu, 4,639,988, Cl. 29-25.350.
- Amemiya, Kouji: *See—*
  - Naito, Takanobu; Yokoyama, Masaaki; Sasaki, Kazuya; Yamamoto, Makoto; and Amemiya, Kouji, 4,691,014, Cl. 540-227.000.
- Amemiya, Kunio; Tanaka, Mikihiko; Kamemaru, Kenichi; and Nakagawa, Kiyoshi, to Unitika Ltd. Moisture-permeable waterproof laminated fabric and process for producing the same. 4,636,424, 1-13-87, Cl. 428-198.000.
- Amemiya, Shinichi, to Fujitsu Limited. Correlation detection type ultrasound blood flowmeter. 4,693,319, 9-15-87, Cl. 128-663.000.
- Amemiya, Tamio: *See—*
  - Hirose, Isao; Amemiya, Tamio; and Sakai, Tokuji, 4,709,088, Cl. 562-414.000.
- Amemiya, Tsuguo; Magata, Yutaka; Fujimatsu, Satoshi; and Morita, Masahiro, to Hitachi, Ltd. Slip reception terminal system. 4,694,147, 9-15-87, Cl. 235-379.000.
- Amemiya, Yoichi; Sogabe, Masatoyo; and Tagami, Kiyoshi, to Fanuc Ltd. Permanent-magnet rotor shrink-fit assembly. 4,697,114, 9-29-87, Cl. 310-156.000.
- Amemiya, Yoichi: *See—*
  - Kawada, Shigeki; Amemiya, Yoichi; Sogabe, Masatoyo; and Iwamatsu, Noboru, 4,661,736, Cl. 310-156.000.
  - Kawada, Shigeki; Amemiya, Yoichi; Sogabe, Masatoyo; and Sugahara, Katsuya, 4,663,550, Cl. 310-93.000.
  - Kawada, Shigeki; Amemiya, Yoichi; Sogabe, Masatoyo; and Iwamatsu, Noboru, 4,700,097, Cl. 310-162.000.
  - Kawada, Shigeki; Amemiya, Yoichi; Sogabe, Masatoyo; and Kumagai, Kazushi, 4,714,852, Cl. 310-156.000.
- Amemori, Hiroyuki; Nishiyama, Shigeru; and Iwamoto, Tetsuo, to Tokico Ltd. Vortex shedding flowmeter. 4,694,702, 9-22-87, Cl. 73-861.240.
- Amen, Jean: *See—*
  - Ghommidh, Charles; Navarro, Jean-Marie; Girardon, Philippe; and Amen, Jean, 4,687,668, Cl. 426-17.000.
- Amendola, Albert, deceased (by Amendola, Nina, executrix); Kumar, Ananda H.; and Vance, Thomas R., to International Business Machines Corporation. Method for repair of opens in thin film lines on a substrate. 4,704,304, 11-3-87, Cl. 427-57.000.
- Amendola, Nina, executrix: *See—*
  - Amendola, Albert, deceased; Kumar, Ananda H.; and Vance, Thomas R., 4,704,304, Cl. 427-57.000.
- Ament, Frank; Peden, Richard A.; and Labuhn, Pamela I., to General Motors Corporation. Engine top dead center locating method. 4,653,315, 3-31-87, Cl. 73-117.300.
- Ament, Harold E.; and Kirschner, Frederick G., to Ideas That Sell, Inc. Cushioned bat. 4,705,273, 11-10-87, Cl. 273-72.00R.
- Amerace Corporation: *See—*
  - Boozer, James M.; Mayer, Robert W.; Kumasaka, Alan J.; Strelecki, Paul R.; and Lindlau, Paul F., 4,682,153, Cl. 340-507.000.
  - Flanagan, Robert M., 4,659,248, Cl. 404-10.000.
  - Goldberg, Bruce S.; and Chen, Richard, 4,689,302, Cl. 435-288.000.
  - Luzzi, Glenn J.; and Kominiak, Andrew A., 4,684,764, Cl. 174-91.000.
  - Montalbano, Anthony J., 4,633,567, Cl. 29-445.000.
  - Pricone, Robert M.; and Roberts, William N., 4,672,089, Cl. 524-354.000.
  - Smorzaniuk, Adam; and Siebens, Larry N., 4,696,649, Cl. 439-98.000.
- Amerasia International Technology, Inc.: *See—*
  - Kwong, Chung T., 4,695,404, Cl. 252-514.000.
- Amerchol Corporation: *See—*
  - Smolin, Martin; and Polovsky, Stuart B., 4,687,843, Cl. 536-18.300.
- American Antigravity Co., Inc.: *See—*
  - Jones, Thomas E.; and Johnson, Raynor A., 4,643,268, Cl. 180-116.000.
- American Awning & Shade Shop, Inc.: *See—*
  - Sarvis, Daniel P., 4,665,671, Cl. 52-222.000.
- American Bank Note Company: *See—*
  - Graziano, Lewis R., 4,648,933, Cl. 156-361.000.
  - Roule, Richard L.; and Cantor, Joshua C., 4,715,623, Cl. 283-91.000.
- American Biltrite, Inc.: *See—*
  - Smith, Merrill M.; and Ferguson, Donald C., 4,678,528, Cl. 156-220.000.
- American Biogenetic Sciences, Inc.: *See—*
  - Pollard, Morris, 4,661,453, Cl. 435-212.000.
- American Brass Company, L.P.: *See—*
  - Patel, Vinayak K., 4,650,650, Cl. 420-472.000.
- American Can Company: *See—*
  - Briggs, Jerald E.; and Pfutzenreuter, Henry, 4,705,708, Cl. 428-35.000.
  - Caner, Ali R.; and Spencer, Kenneth B., 4,685,273, Cl. 53-440.000.
  - Curie, Kevin J.; and Jesse, Jerry F., 4,687,688, Cl. 428-35.000.
  - Farrell, Christopher J.; and Tsai, Boh C., 4,702,966, Cl. 428-500.000.
  - Godar, Joseph L., 4,695,492, Cl. 428-35.000.
  - Hsu, Joseph C.; and Guckenberger, Anthony C., 4,700,531, Cl. 53-412.000.
  - Hsu, Joseph C.; and Guckenberger, Anthony C., 4,704,314, Cl. 428-35.000.
  - Kaffko, Leslie K., 4,655,358, Cl. 220-66.000.
  - Karas, Richard J.; and LaRosa, John, 4,637,117, Cl. 29-527.400.
  - Karas, Richard J.; and Echternach, Gerald G., 4,646,930, Cl. 220-70.000.
  - Kowalski, Gregg D., 4,661,414, Cl. 428-461.000.
  - Kubacki, Edward F.; and Masciale, John M., 4,635,545, Cl. 101-4.000.
  - Kudert, Frederick G.; Latreille, Maurice G.; McHenry, Robert J.; Nahill, George F.; Pfutzenreuter, Henry, III; Tennant, William A.; Tung, Thomas T.; and Vella, John, Jr., 4,712,990, Cl. 425-130.000.
  - McHenry, Robert J.; Brito, Joseph B.; Piatt, Wilson T., Jr.; Reed, Robert J.; Vavadarajan, Krishnaraju; Spencer, Kenneth B.; Tsai, Boh C.; Williams, Mark A.; Vosti, Donald C.; and Wachtel, James A., 4,642,968, Cl. 53-425.000.
  - McHenry, Robert J.; Brito, Joseph B.; Piatt, Wilson T., Jr.; Reed, Robert J.; Varadarajan, Krishnaraju; Spencer, Kenneth B.; Tsai, Boh C.; Williams, Mark A.; Vosti, Donald C.; and Wachtel, James A., 4,667,454, Cl. 53-425.000.
  - Mietz, Raymond E.; and Wilkinson, Harlen E., 4,658,979, Cl. 220-209.000.
  - Murray, Lee J.; and Schaefer, Suzanne E., 4,698,247, Cl. 428-35.000.
  - Ossian, William F., 4,640,852, Cl. 428-35.000.
  - Redding, Dwight D., 4,659,408, Cl. 156-244.170.
  - Schaefer, Suzanne E.; and Eckstein, John P., 4,685,591, Cl. 222-107.000.
  - Tse, Samuel W.; and Galloway, Deane E., 4,647,483, Cl. 428-35.000.
  - Tse, Samuel W.; and Galloway, Deane E., 4,665,135, Cl. 525-432.000.
  - Tse, Samuel W.; and Galloway, Deane E., 4,683,170, Cl. 428-349.000.
- American Cast Iron Pipe Company: *See—*
  - Conner, Randall C.; and Walworth, Van T., 4,643,466, Cl. 285-321.000.
  - Conner, Randall C.; and Walworth, Van T., 4,685,708, Cl. 285-374.000.
- American Chemical Society: *See—*
  - Fisanick, William, 4,642,762, Cl. 364-300.000.
- American Cimflex Corporation: *See—*
  - Gorman, Robert H., 4,645,409, Cl. 414-735.000.
  - Gorman, Robert H., 4,671,732, Cl. 414-735.000.
- American Coin Currency Equipment Corporation: *See—*
  - McDonald, Ronald; and Hengeveld, John A., 4,707,843, Cl. 377-8.000.
- American Colloid Company: *See—*
  - Alexander, William, 4,634,538, Cl. 252-8.514.
  - Alexander, William; Regan, Barbara R.; and Anderson, Mark, 4,677,174, Cl. 526-240.000.
  - Alexander, William, 4,709,767, Cl. 175-65.000.
  - Harriett, Todd D., 4,656,062, Cl. 427-397.800.

Harriett, Todd D., 4,668,724, Cl. 524-108.000.

Harriett, Todd D., 4,696,698, Cl. 106-74.000.

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Mikita, Muneharu; Tanioku, Shozo; and Touda, Takayasu, 4,654,393, Cl. 526-240.000.

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Gitman, Grigory M., 4,642,047, Cl. 432-13.000.

Gitman, Grigory M., 4,664,618, Cl. 431-11.000.

American Cord & Webbing Co., Inc.: *See—*

Krauss, Mark J., 4,646,394, Cl. 24-129.00R.

American Cyanamid Company: *See—*

Addor, Roger W.; Wright, Donald P., Jr.; Siddens, Jack K.; and Hand, John J., 4,649,148, Cl. 514-321.000.

Albright, Jay D.; Powell, Dennis W.; and Dusza, John P., 4,654,343, Cl. 514-248.000.

Arotin, Robert L.; Walworth, Bryant L.; and Marini, Michele E., 4,639,268, Cl. 71-105.000.

Asato, Goro; and Ross, Lawrence J., 4,649,158, Cl. 514-554.000.

Bambrick, William E., 4,673,664, Cl. 502-439.000.

Barton, Jerry M.; Long, Don W.; and Lotts, Kenneth D., 4,658,030, Cl. 546-167.000.

Bitha, Panayota; Child, Ralph G.; Hlavka, Joseph J.; and Lin, Yang-I, 4,665,210, Cl. 556-137.000.

Bitha, Panayota; Child, Ralph G.; Hlavka, Joseph J.; and Lin, Yang-I, 4,675,336, Cl. 514-492.000.

Bitha, Panayota; Child, Ralph G.; Hlavka, Joseph J.; and Lin, Yang-I, 4,716,157, Cl. 514-184.000.

Black, Seymour, deceased, 4,708,241, Cl. 206-63.300.

Blum, David M., 4,698,447, Cl. 568-12.000.

Brownrigg, Neville J., 4,678,585, Cl. 210-727.000.

Cannelongo, Joseph F., 4,674,445, Cl. 119-156.000.

Card, Roger J.; and Schmitt, Joseph L., Jr., 4,654,440, Cl. 564-479.000.

Carter, Guy T.; Greenstein, Michael; Goodman, Joseph J.; Borders, Donald B.; Maiese, William M.; and Testa, Raymond T., 4,705,688, Cl. 424-122.000.

Casey, Donald J.; Jarrett, Peter K.; and Rosati, Louis, 4,716,203, Cl. 525-408.000.

Chan, Peter S., 4,696,940, Cl. 514-400.000.

Child, Ralph G.; Fields, Thomas L.; Wilkinson, Raymond G.; and Lin, Yang-I, 4,696,936, Cl. 514-297.000.

Dauplaise, David L.; and Trzaskos, William J., 4,696,770, Cl. 252-700.000.

Deniega, Jose C., 4,651,737, Cl. 128-325.000.

Devereux, Dennis F., 4,655,221, Cl. 128-334.00R.

DeVries, Vern G.; and Upeslacis, Janis, 4,670,421, Cl. 514-63.000.

Doehner, Robert F., Jr., 4,656,283, Cl. 546-170.000.

Dugliss, Charles H., 4,678,608, Cl. 252-700.000.

Dumican, Barry L.; Kaganov, Alan L.; and Ritter, Thomas A., 4,633,873, Cl. 128-334.00R.

Dumican, Barry L., 4,652,264, Cl. 623-1.000.

Dusza, John P.; Tomcufcik, Andrew S.; and Albright, Jay D., 4,654,347, Cl. 514-258.000.

Floyd, Middleton B., Jr., 4,644,079, Cl. 560-121.000.

Foley, Henry C.; and O'Toole, Michael P., 4,684,618, Cl. 502-313.000.

Foley, Henry C.; and O'Toole, Michael P., 4,687,784, Cl. 518-714.000.

Forgione, Peter S.; and Singh, Balwant, 4,708,984, Cl. 525-127.000.

Forgione, Peter S.; and Singh, Balwant, 4,710,542, Cl. 525-127.000.

Fu, Yun-Lung; and Wang, Samuel S., 4,657,688, Cl. 252-61.000.

Fu, Yun-Lung; and Strydom, Peter J., 4,659,853, Cl. 558-19.000.

Gastrock, William H.; and Wepplo, Peter J., 4,683,324, Cl. 558-354.000.

Geary, Daniel C., 4,675,177, Cl. 424-47.000.

Giglia, Robert D., 4,648,902, Cl. 75-229.000.

Giglia, Robert D.; and Clasen, Richard H., 4,698,256, Cl. 428-216.000.

Hacetoglu, Ararat; Kodatsky, William K.; and Gonzales, Ray O., Jr., 4,645,130, Cl. 241-16.000.

Heilman, Conrad J., Jr., 4,659,568, Cl. 424-88.000.

Hlavka, Joseph J.; Lin, Yang-I; and Bitha, Panayota, 4,670,458, Cl. 514-492.000.

Hlavka, Joseph J.; Child, Ralph G.; Bitha, Panayota; and Lin, Yang-i, 4,703,115, Cl. 536-55.000.

Hourihan, Joseph C.; and Krevald Helga, 4,704,271, Cl. 424-66.000.

Kantor, Sidney; and Kennett, Robert L., Jr., 4,649,143, Cl. 514-279.000.

Kantor, Sidney; and Kennett, Robert L., Jr., 4,650,802, Cl. 514-279.000.

Kantor, Sidney, 4,704,276, Cl. 424-122.000.

Kirby, Jane P.; Fantini, Amedeo A.; Borders, Donald B.; Testa, Raymond T.; and Martin, John H. E. J., deceased, 4,650,765, Cl. 435-254.000.

Kirby, Jane P.; Borders, Donald B.; Lee, May D.; Maiese, William M.; Testa, Raymond T.; and Labeda, David P., 4,699,790, Cl. 424-117.000.

Kohli, Dalip K.; and Fisher, Michael M., 4,645,803, Cl. 525-423.000.

Koroscil, Anthony, 4,640,193, Cl. 102-336.000.

Koroscil, Anthony; Smithey, Walter A.; and Delgado, Paul A., 4,682,544, Cl. 102-336.000.

Koroscil, Anthony, 4,698,183, Cl. 252-700.000.

Kuhn, David G., 4,659,857, Cl. 558-58.000.

Kuzara, David J., 4,711,244, Cl. 128-632.000.

Lee, May D.; Martin, John H.; Borders, Donald B.; Yao, Raymond C.; and Testa, Raymond T., 4,677,071, Cl. 435-253.000.

Lehmann, Leonard T., 4,711,241, Cl. 128-335.500.

Li, Lehmann K.; and Marra, Michael, 4,634,035, Cl. 227-19.000.

Li, Lehmann K., 4,667,673, Cl. 128-334.00C.

Lin, Wenlii; and Griffith, William A., 4,699,786, Cl. 424-92.000.

Lindsley, John F.; Goldstein, Marvin S.; and Quayle, William H., 4,652,545, Cl. 502-255.000.

Los, Marinus, 4,638,068, Cl. 546-169.000.

Los, Marinus, 4,647,301, Cl. 71-92.000.

Los, Marinus; Ladner, David W.; and Cross, Barringtin, 4,650,514, Cl. 71-90.000.

Los, Marinus, 4,698,092, Cl. 71-92.000.

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Los, Marinus; Long, Don W.; and Withers, Gregory P., 4,709,036, Cl. 546-167.000.

Lutz, Albert W.; and Rodaway, Shirley J., 4,677,226, Cl. 564-108.000.

Luxon, Bruce A., 4,668,578, Cl. 428-367.000.

Maulding, Donald R., 4,675,432, Cl. 560-44.000.

Medwid, Jeffrey B.; Torley, Lawrence W.; and Tomcufcik, Andrew S., 4,686,220, Cl. 514-252.000.

Medwid, Jeffrey B.; and Torley, Lawrence W., 4,692,449, Cl. 514-254.000.

Meek, John T.; and Stockton, Gerald W., 4,686,365, Cl. 250-281.000.

Montgomery, John R.; Brumaghim, Milton W.; and Deniega, Jose C., 4,662,373, Cl. 128-325.000.

Morin, Louis G., 4,661,403, Cl. 428-367.000.

Morin, Louis G., 4,680,093, Cl. 204-28.000.

Morin, Louis G., 4,680,100, Cl. 204-228.000.

Murdock, Keith C.; Damiani, Martin R.; and Durr, Frederick E., 4,696,935, Cl. 514-297.000.

Murdock, Keith C.; and Webb, Richard L., 4,715,993, Cl. 260-380.000.

Nagaraj, D. R.; and Wang, Samuel S., 4,661,278, Cl. 252-61.000.

O'Neal, Thomas D.; Bhalla, Prithvi R.; and Cross, Barrington, 4,643,755, Cl. 71-76.000.

O'Toole, Michael P.; and Card, Roger J., 4,639,356, Cl. 423-266.000.

Parker, Lawrence D.; and English, Adrian M., 4,650,679, Cl. 424-118.000.

Parker, Thomas J., 4,700,448, Cl. 29-434.000.

Paul, Albert P.; and Card, Roger J., 4,705,570, Cl. 106-124.000.

Paul, Albert P.; Szarz, Richard A.; and Card, Roger J., 4,711,669, Cl. 106-38.510.

Petersen, Arthur W.; and Smialowicz, Dennis T., 4,704,234, Cl. 252-542.000.

Remley, Kenneth H., 4,652,268, Cl. 8-185.000.

Ritchey, Mary B.; Cano, Francis R.; O'Hara, Gerald J.; English, James D.; and Lin, Wenlii, 4,686,102, Cl. 424-92.000.

Schenkel, Robert H.; Thammana, Pallaiah; and Wong, Rosie B., 4,650,676, Cl. 424-88.000.

Schenkel, Robert H.; Wong, Rosie B.; and Thammana, Pallaiah, 4,710,377, Cl. 424-88.000.

Schirmann, Peter J.; Blank, Werner J.; and Parekh, Girish G., 4,656,308, Cl. 560-170.000.

Scott, Jane V.; and Waggett, Joseph F., 4,705,686, Cl. 424-92.000.

Stretanski, Joseph A.; and Loffelman, Frank F., 4,670,491, Cl. 524-120.000.

Suzuki, Munehiro; Kimpara, Masaomi; and Tsuda, Kiyoshi, 4,657,912, Cl. 514-275.000.

Tomcufcik, Andrew S.; Marsico, Joseph W.; Eudy, Nancy H.; and Newman, Howard, 4,689,324, Cl. 514-89.000.

Walgenbach, Paul J., 4,695,564, Cl. 514-127.000.

Wang, David W.; Courter, Jeanne L.; and Kohli, Dalip K., 4,636,535, Cl. 523-204.000.

Wang, David W.; Casey, Donald J.; and Lehmann, Leonard T., 4,705,820, Cl. 524-381.000.

Whitehead, David L.; and Bhalla, Prithvi R., 4,699,646, Cl. 71-77.000.

Wilkinson, Raymond G.; and Lin, Yang-I, 4,666,917, Cl. 514-297.000.

Wissner, Allan; Schaub, Robert E.; and Sum, Phaik E., 4,640,913, Cl. 514-77.000.

Wissner, Allan; and Sum, Phaik-Eng, 4,697,031, Cl. 558-169.000.

Wissner, Allan; and Schaub, Robert E., 4,699,990, Cl. 558-169.000.

Wissner, Allan, 4,703,130, Cl. 558-169.000.

Wright, William B., Jr.; Tomcufcik, Andrew S.; and Marsico, Joseph W., Jr., 4,680,293, Cl. 514-243.000.

Wright, William B., Jr.; and Tomcufcik, Andrew S., 4,684,654, Cl. 514-259.000.

Wright, William B., Jr.; and Tomcufcik, Andrew S., 4,710,502, Cl. 514-259.000.

American Davidson, Inc.: *See—*

Davis, Robert J., 4,681,509, Cl. 415-161.000.

American Dental Association Health Foundation: *See—*

Bowen, Rafael L., 4,659,751, Cl. 523-116.000.

American Desk Manufacturing Company: *See—*

Strausheim, Myron A., 4,674,240, Cl. 52-36.000.

American Device Manufacturing Co.: *See—*

Zortman, Zedekiah Z., 4,709,950, Cl. 292-92.000.

American District Telegraph Company: *See—*

Flynn, Kevin; and Schultz, Eric V., 4,644,484, Cl. 364-569.000.

  - Galvin, Aaron A.; Edson, James B.; and Guscott, John K., 4,636,774, Cl. 340-565.000.
  - Galvin, Aaron A.; Dyer, Hugh D.; and Leff, Kenneth J., 4,679,881, Cl. 439-392.000.
  - Harvey, Roy L.; and Mason, Douglas, 4,634,846, Cl. 235-382.000.
  - Pantus, Math M. J., 4,647,913, Cl. 340-506.000.
- American Electronic Laboratories, Inc.: *See—*
  - Spacer, Edward T., 4,654,116, Cl. 156-656.000.
- American Electronics, Inc.: *See—*
  - Beaver, Richard C., 4,687,170, Cl. 248-543.000.
- American Energy Services, Inc.: *See—*
  - Holland, John F., 4,702,111, Cl. 73-579.000.
  - Ludwig, Frank, 4,640,119, Cl. 73-12.000.
- American Environmental International Inc.: *See—*
  - Tandon, Jag S., 4,662,899, Cl. 55-80.000.
- American Felt & Filter Company: *See—*
  - Bernard, Edward G.; and Kochesky, Francis F., 4,658,755, Cl. 118-610.000.
- American Fence Corporation: *See—*
  - Dobson, Donald J., 4,666,129, Cl. 256-2.000.
- American Filtrona Corporation: *See—*
  - Berger, Richard M., 4,637,409, Cl. 131-336.000.
  - Berger, Richard M., 4,675,064, Cl. 156-244.120.
- American Floor Covering Company: *See—*
  - Sarvis, Daniel P., 4,665,671, Cl. 52-222.000
- American Gas Association: *See—*
  - Priem, Richard J.; Ghassemzadeh, M. Reza; and Griffiths, James C., 4,685,510, Cl. 165-62.000.
  - Vishwanath, Palamadi S., 4,708,635, Cl. 431-1.000.
- American Golf, Inc.: *See—*
  - O'Neal, James C., Jr., 4,664,386, Cl. 273-176.00R.
- American Greetings Corporation: *See—*
  - Johnson, John A.; Gandolf, Edward O.; and Preksta, Ronald M., 4,655,353, Cl. 211-189.000.
  - Nervig, Charles H.; and Dimmick, Vance E., 4,678,086, Cl. 211-47.000.
- American Hoechst Corporation: *See—*
  - Barton, O. Alfred, 4,634,652, Cl. 430-156.000.
  - Castenson, Richard, 4,664,709, Cl. 106-23.000.
  - Coates, Stephen R.; and Binder, Walter L., 4,645,737, Cl. 435-7.000.
  - Culbertson, Edwin C., 4,642,263, Cl. 428-336.000.
  - Durham, Dana, 4,692,398, Cl. 430-329.000.
  - Hsu, Chien-Pin S.; and Webb, Thomas R., 4,659,774, Cl. 525-54.200.
  - Jester, Randy D., 4,681,723, Cl. 264-175.000.
  - Liu, Shuchen, 4,692,397, Cl. 430-325.000.
  - Platzer, Stephan J. W.; and Koletar, Gabor I., 4,650,738, Cl. 430-143.000.
  - Platzer, Stephan J. W.; Koletar, Gabor I.; and Shadrach, Richard L., 4,659,642, Cl. 430-143.000.
  - Rogers, John H.; Hopper, Michael J.; and Martin, Michael R., 4,659,523, Cl. 264-1.300.
  - Vickery, Earl; and Yates, Mark, 4,661,056, Cl. 431-5.000.
  - Walls, John E.; Tellechea, Carlos; and Dhillon, Major S., 4,652,604, Cl. 522-63.000.
  - Walls, John E.; Dhillon, Major S.; and Koletar, Gabor I., 4,665,124, Cl. 525-61.000.
  - Walls, John E.; Dhillon, Major S.; and Koletar, Gabor I., 4,670,507, Cl. 525-61.000.
- American Hofmann Corp.: *See—*
  - Fietzke, Guenter, 4,644,792, Cl. 73-461.000.
- American Home Products Corporation: *See—*
  - Abou-Gharbia, Magid A., 4,636,563, Cl. 546-87.000.
  - Abou-Gharbia, Magid A.; Freed, Meier E.; and Colatsky, Thomas J., 4,638,008, Cl. 514-411.000.
  - Abou-Gharbia, Magid A., 4,663,456, Cl. 544-295.000.
  - Abou-Gharbia, Magid A.; Patel, Usha R.; and Stein, Reinhardt P., 4,672,117, Cl. 544-405.000.
  - Abou-Gharbia, Magid A.; and Stack, Gary P., 4,675,403, Cl. 544-230.000.
  - Abou-Gharbia, Magid A.; and Schiehser, Guy A., 4,709,027, Cl. 544-6.000.
  - Abou-Gharbia, Magid A.; and Nielsen, Susan T., 4,710,572, Cl. 544-267.000.
  - Abou-Gharbia, Magid A.; and Nielsen, Susan T., 4,716,165, Cl. 514-265.000.
  - Abou-Gharbia, Magid A.; Nielsen, Susan T.; and Webb, Michael B., 4,716,166, Cl. 514-265.000.
  - Bellini, Francesco; Sestanj, Kazimir; and Kraml, Michael, 4,672,058, Cl. 514-62.000.
  - Blank, Robert G.; and Mody, Dhiraj S., 4,696,757, Cl. 252-186.290.
  - Blank, Robert G.; and Miller, Ronald W., 4,716,042, Cl. 424-474.000.
  - Boyle, John T. A.; and Todd, Richard S., 4,695,574, Cl. 514-313.000.
  - Buzby, George C., Jr.; Winkley, Michael W.; and McCauliy, Ronald J., 4,644,081, Cl. 562-456.000.
  - Buzby, George C., Jr.; and Colatsky, Thomas J., 4,698,445, Cl. 564-86.000.
  - Colatsky, Thomas J.; and Buzby, George C., Jr., 4,665,227, Cl. 564-87.000.
  - Curtis, H. Edward; and Gaffney, Thomas J., 4,706,815, Cl. 206-531.000.
  - Farina, James S.; and Cummings, Corbin L., 4,704,475, Cl. 568-316.000.
  - Ferdinandi, Eckhardt S.; Mobilio, Dominick; Sabatucci, Joseph P.; and Humber, Leslie G., 4,686,213, Cl. 514-161.000.
  - Guley, Paul C., 4,681,765, Cl. 424-456.000.
  - Hayward, Marshall A., 4,677,132, Cl. 514-411.000.
  - Jirkovsky, Ivo; King, Gary; Baudy, Reinhardt; and DeNoble, Victor, 4,665,183, Cl. 546-94.000.
  - Katz, Alan H.; Demerson, Christopher A.; and Humber, Leslie G., 4,670,462, Cl. 514-411.000.
  - King, Gary A., 4,686,225, Cl. 514-283.000.
  - Klaubert, Dieter H.; and Sellstedt, John H., 4,663,461, Cl. 548-251.000.
  - Kreft, Anthony F., III; Pattison, Thomas W.; and Musser, John H., 4,642,347, Cl. 546-181.000.
  - Kreft, Anthony F., III; Musser, John H.; Pattison, Thomas W.; and Yardley, John P., 4,661,596, Cl. 546-152.000.
  - Lewis, Alan J.; Carlson, Richard P.; and Fletcher, Horace, 3rd, 4,659,728, Cl. 514-374.000.
  - Lien, Eric L., 4,634,714, Cl. 514-397.000.
  - McGregor, William H.; and Chang, Joseph Y., 4,710,580, Cl. 558-86.000.
  - Mewshaw, Richard E.; and Commons, Thomas J., 4,709,025, Cl. 540-355.000.
  - Mobilio, Dominick; Demerson, Christopher A.; and Humber, Leslie G., 4,687,860, Cl. 548-439.000.
  - Mobilio, Dominick; Demerson, Christopher A.; and Humber, Leslie G., 4,701,533, Cl. 548-439.000.
  - Mobilio, Dominick; Demerson, Christopher A.; and Humber, Leslie G., 4,709,048, Cl. 548-439.000.
  - Mullane, John F., 4,663,345, Cl. 514-454.000.
  - Musser, John H.; Kubrak, Dennis M.; and Kreft, Anthony F., III, 4,675,405, Cl. 546-172.000.
  - Musser, John H.; and Bender, Reinhold H. W., 4,681,940, Cl. 546-174.000.
  - Ryder, Steven W.; Shand, David G.; and Mullane, John F., 4,701,467, Cl. 514-524.000.
  - Ryder, Steven W.; Shand, David G.; and Mullane, John F., 4,716,177, Cl. 514-524.000.
  - Sestanj, Kazimir; and Ferdinandi, Eckhardt S., 4,672,059, Cl. 514-62.000.
  - Skotnicki, Jerauld S.; and Commons, Thomas J., 4,692,517, Cl. 540-222.000.
  - Wilson, Jan S., 4,649,049, Cl. 424-89.000.
  - Winkley, Michael W.; and McCaully, Ronald J., 4,645,857, Cl. 562-456.000.
  - Wooley, Paul H., 4,710,511, Cl. 514-411.000.
  - Wu, Chien-Chin; Reuter, Gerald L.; and Coons, Mark E., 4,676,984, Cl. 424-157.000.
  - Wu, Chien-Chin; and Reuter, Gerald L., 4,704,278, Cl. 424-157.000.
- American Hospital Supply Corporation: *See—*
  - Ambrose, William A.; and Garcia, Fernando A., 4,636,201, Cl. 604-192.000.
  - Ari, Suha V.; and Lieber, Glen L., 4,684,363, Cl. 604-98.000.
  - Armes, William P.; Cherniski, Andrew M.; Hanaway, Richard W.; and Hathaway, James C., 4,676,951, Cl. 422-65.000.
  - Balding, David P.; Hsu, Li-Chien; and Gordon, Lucas S., 4,640,819, Cl. 422-22.000.
  - Bickelhaupt, Roger; and Rold, Michael D., 4,713,059, Cl. 604-171.000.
  - Blake, Joseph W., III, 4,662,374, Cl. 128-325.000.
  - Blake, Joseph W., III; and Kaufman, Jack W., 4,702,247, Cl. 128-325.000.
  - Bobo, Donald E., Jr., 4,648,869, Cl. 604-49.000.
  - Borsanyi, Alexander S., 4,671,792, Cl. 604-153.000.
  - Bullock, Karl D., 4,670,009, Cl. 604-280.000.
  - Carpentier, Alain; Carpentier, Sophie; and Nashef, Aws S., 4,647,283, Cl. 623-11.000.
  - Carpentier, Alain; Carpentier, Sophie; and Nashef, Aws S., 4,648,881, Cl. 623-11.000.
  - Cartmell, James V.; Burcham, Larry R.; and Wolf, Michael L., 4,635,642, Cl. 128-639.000.
  - Cartmell, James V.; and DeRosa, Joseph F., 4,669,468, Cl. 128-303.130.
  - Cartmell, James V., 4,674,511, Cl. 128-640.000.
  - Cartmell, James V.; Allaire, Michael J.; Burcham, Larry R.; and Patrick, Charles T., Jr., 4,685,467, Cl. 128-640.000.
  - Cartmell, James V.; Burcham, Larry R.; and Wolf, Michael L., 4,699,679, Cl. 156-242.000.
  - Clasby, Thomas J., III, 4,655,775, Cl. 623-6.000.
  - D'Amelio, Frank D.; Maxfield, Michelle d.; Esposito, Dominick G.; and Kobyra, Walter B., 4,659,195, Cl. 350-574.000.
  - Davenport, James M., 4,684,014, Cl. 206-5.100.
  - Elson, Edward E.; Bolwell, Farley W.; Manska, Wayne E.; and Shoffner, Stanley G., 4,643,389, Cl. 251-10.000.
  - Gille, Henrick K.; Willing, Richard S.; Bloom, William G.; Siegel, Bernard; Cheung, Tsang; Lobodzinski, Richard; and Gilroy, Keith, 4,712,567, Cl. 128-771.000.
  - Habib, Magdi, 4,688,554, Cl. 128-4.000.
  - Hanaway, Richard W., 4,643,879, Cl. 422-104.000.
  - Hanaway, Richard W., 4,681,741, Cl. 422-100.000.
  - Hannula, Donald L.; and Coe, Frederick L., 4,634,427, Cl. 604-93.000.
  - Hardwick, Martha K.; Pike, Kelly A.; Evans, George D., II; Edwards, Ronald; and Norman, Jacob J., 4,648,868, Cl. 604-32.000.
  - Hecker, Raymond L., 4,662,400, Cl. 137-625.180.
  - Hoffa, Jack L.; and Karkar, Maurice N., 4,635,467, Cl. 73-1.00G.
  - Hoffa, Jack L.; and Karkar, Maurice N., 4,700,560, Cl. 73-1.00G.

- Lepper, James M., 4,641,658, Cl. 128-633.000.
- Link, William J., 4,634,442, Cl. 623-6.000.
- McCartney, Ronald L.; and Marovich, Frank A., 4,647,149, Cl. 350-96.200.
- McCartney, Ronald L., 4,711,522, Cl. 350-96.210.
- Meguro, Jun-Ichi; McKisic, Kelvin O.; and Manley, James R., Jr., 4,677,372, Cl. 324-54.000.
- Meguro, Jun-Ichi; Solberg, Arne L.; Stark, William A.; and Hsei, Paul K., 4,685,880, Cl. 425-416.000.
- Nashef, Aws S.; and Campbell, Todd D., 4,674,488, Cl. 128-92.00W.
- Nashef, Aws S.; and Campbell, Todd D., 4,678,470, Cl. 623-16.000.
- Petruzzi, Claude E., 4,655,219, Cl. 128-321.000.
- Portnoy, Vladimir, 4,704,122, Cl. 623-6.000.
- Sutherland, Karl M., 4,684,508, Cl. 422-46.000.
- Swendson, David L.; Elson, Edward E.; Lieber, Clement; and Rold, Michael D., 4,651,751, Cl. 128-786.000.
- Weyant, Robert R., 4,692,145, Cl. 604-65.000.

American Industrial Research, Inc.: *See—*
- Johnson, Raynor A.; and Wegener, Jack, 4,686,719, Cl. 5-81.00R.

American Innovation: *See—*
- Hait, Paul W., 4,664,373, Cl. 272-117.000.

American Institutional Maintenance Corporation: *See—*
- Imhoff, Lee A., 4,648,253, Cl. 70-135.000.

American Insulation & Engineering Co., Inc.: *See—*
- Amos, James, 4,639,034, Cl. 296-100.000.

American Locker Group Incorporated: *See—*
- Ellsberg, Thomas R., 4,698,630, Cl. 340-825.310.

American Machine & Science, Inc.: *See—*
- Mudge, Dennis; Coskie, Joseph; Jacobs, Edward H.; and Harris, David R., 4,643,410, Cl. 269-64.000.

American Machine and Tool Company, Inc.: *See—*
- Pollak, Henry; and Wells, Gordon, 4,658,681, Cl. 82-6.00R.
- Pollak, Henry M.; and Mauger, John W., 4,664,165, Cl. 144-117.00R.

American Magnetics Corporation: *See—*
- Conant, Curtis T., 4,692,602, Cl. 235-446.000.

American Maize-Products Company: *See—*
- Francis, H. Paul; DeBoer, Edward D.; and Wermers, Vilas L., 4,652,384, Cl. 252-8.510.

American Manufacturing Company, Inc.: *See—*
- Reger, Philip R., 4,641,132, Cl. 340-540.000.

American Medical and Emergency Research Corporation: *See—*
- Rolnick, Michael A., 4,681,094, Cl. 128-10.000.

American Medical Systems, Inc.: *See—*
- Mikulich, Michael A.; Burton, John H.; and Porter, Christopher H., 4,651,721, Cl. 128-79.000.

American Mediscan, Inc.: *See—*
- Juncosa, Robert D., 4,690,152, Cl. 128-734.000.

American Meter Company: *See—*
- Hicks, Irwin A., 4,645,174, Cl. 251-5.000.
- Hicks, Irwin A., 4,706,496, Cl. 73-268.000.

American Microsystems, Inc.: *See—*
- Bauer, Jerry R., 4,673,933, Cl. 340-825.940.
- Bauer, Jerry R., 4,698,617, Cl. 380-28.000.
- Bauer, Jerry R., 4,716,586, Cl. 380-3.000.
- Howell, Robert G.; and Fisher, Tomas G., 4,636,721, Cl. 324-133.000.
- Joy, Richard C.; and Batra, Tarsaim L., 4,697,332, Cl. 437-29.000.
- Lee, Jong S., 4,657,172, Cl. 228-180.200.
- Mahmood, Qazi A. S. M., 4,644,504, Cl. 365-230.000.
- Riebeek, G. Fred, 4,635,002, Cl. 331-108.00R.
- Uhrey, Marc K., 4,680,485, Cl. 307-463.000.

American Monitor Corporation: *See—*
- Meier, Daniel J., 4,669,878, Cl. 356-319.000.

American Motors Corporation: *See—*
- Bage, Jeffery T., 4,653,607, Cl. 181-171.000.
- Batchelor, Robert B., 4,644,822, Cl. 74-695.000.
- Batchelor, Robert B., 4,677,875, Cl. 74-695.000.
- Castaing, Francois J., 4,676,488, Cl. 267-47.000.
- Wu, Leonard L., 4,637,091, Cl. 15-250.340.

American Multimedia, Inc.: *See—*
- Farrow, Robert I.; and Clark, Richard L., 4,656,530, Cl. 360-15.000.
- Farrow, Robert I., 4,657,197, Cl. 242-56.00R
- Kincheloe, David W.; and Clark, Richard L., 4,673,992, Cl. 360-15.000.

American Olaer, Inc.: *See—*
- Henderson, Andrew R.; and Whitson, Richard J., 4,671,380, Cl. 181-233.000.
- Otter, Stanley E., 4,671,325, Cl. 138-30.000.

American Omni Medical, Inc.: *See—*
- Siposs, George G.; and Sternlieb, Jack J. (said Jack Sternlieb assors. to), 4,675,010, Cl. 604-319.000.

American Optical Corporation: *See—*
- Chu, Nori Y. C., 4,699,473, Cl. 350-409.000.
- Grendol, Clark L.; and Desy, Raoul O., 4,704,015, Cl. 351-138.000.
- Krusas, James J.; and Pienta, Joseph J., 4,711,539, Cl. 351-63.000.
- Metcalfe, Richard T., 4,699,479, Cl. 351-153.000.

American Orthodontics Corporation: *See—*
- Gagin, William P., 4,639,219, Cl. 433-22.000.
- Merkel, Daniel A., 4,659,309, Cl. 433-9.000.

American Phone Products: *See—*
- Lee, Peter, 4,636,589, Cl. 379-159.000.

American Recreation Group: *See—*
- Hess, Stanley C., 4,700,964, Cl. 280-289.00R.

American Red Cross: *See—*
- Holme, Stein, 4,695,460, Cl. 424-101.000.

American Robot Corporation: *See—*
- Gorman, Robert H., 4,636,138, Cl. 414-735.000.

American Roller Company: *See—*
- Brands, George B.; and Carlson, James R., 4,635,550, Cl. 101-415.100.

American Safety Equipment Corporation: *See—*
- Sack, John J.; Stamboulian, Nazareth; and Tanaka, Akira, 4,659,108, Cl. 280-807.000.
- Tanaka, Akira; and Unger, Hans, 4,656,700, Cl. 24-574.000.
- Unger, Hans, 4,669,751, Cl. 280-807.000.

American Safety Razor Company: *See—*
- Iten, Clemens A., 4,706,385, Cl. 30-169.000.

American Satellite Company: *See—*
- Bornkast, Horst; and Kawczynski, Edward J., 4,651,160, Cl. 343-719.000.

American Saw & Mfg. Company: *See—*
- Kielbania, Daniel M.; and Gordon, Stanley H., 4,675,495, Cl. 219-97.000.

American Science and Engineering, Inc.: *See—*
- Burstein, Paul; Krieger, Allen; Annis, Martin; and Chase, Richard C., 4,691,332, Cl. 378-7.000.
- Keller, Franz, 4,638,314, Cl. 340-870.020.

American Screen Printing Equipment Company: *See—*
- Bubley, Henry J., 4,646,446, Cl. 34-4.000.
- Bubley, Henry J.; and Iaccino, Alex, 4,648,317, Cl. 101-123.000.
- Motev, Phil, 4,712,474, Cl. 101-38.00A.

American Sigma, Inc.: *See—*
- Dickinson, W. David; and Baetz, Charles N., 4,701,107, Cl. 417-86.000.
- Griffith, Carl D.; and McGranor, Ray P., 4,660,607, Cl. 141-1.000.

American Sprayed-On Fibers, Inc.: *See—*
- Miller, Dennis C., 4,710,309, Cl. 252-62.000.

American Standard Inc.: *See—*
- Andersen, Garry E.; Quinn, James R.; and Linnert, Peter J., 4,701,114, Cl. 417-564.000.
- Bergmann, Konrad, 4,653,535, Cl. 137-625.170.
- Bergmann, Konrad, 4,674,537, Cl. 137-625.310.
- Bergmann, Konrad, 4,682,626, Cl. 137-551.000.
- Bergmann, Konrad, 4,697,620, Cl. 137-625.170.
- Bierkamp, James A.; Hall, Scott D.; and Smith, Wade W., 4,683,942, Cl. 165-53.000.
- Butterworth, Arthur L., 4,666,381, Cl. 418-55.000.
- Campbell, Richard D., 4,661,722, Cl. 307-419.000.
- Chew, James P., 4,700,278, Cl. 362-249.000.
- Crawford, James G., 4,646,537, Cl. 62-238.600.
- Darrow, John O. G., 4,641,045, Cl. 307-350.000.
- Derdack, Dieter; and Delker, Wilfried, 4,685,487, Cl. 137-315.000.
- Genovese, John S.; Grazul, Edwin C.; Meisner, David J.; and Wright, Francis M., 4,664,982, Cl. 428-447.000.
- Haley, Paul F.; Junk, Brian S.; Renaud, Merle A.; and Rentmeester, Paul C., 4,686,834, Cl. 62-209.000.
- Han, Doyoung; and Renaud, Merle A., 4,689,967, Cl. 62-201.000.
- Han, Doyoung; and Renaud, Merle A., 4,715,190, Cl. 62-201.000.
- Harrell, David P., 4,639,192, Cl. 416-27.000.
- Harrigal, Ronald E.; and Chew, James P., 4,665,858, Cl. 116-30.000.
- Hart, James E.; Zoric, Michael T.; and Kyllonen, Allen W., 4,666,166, Cl. 277-212.0FB.
- Hart, James E., 4,690,463, Cl. 303-37.000.
- Helt, Robert W., 4,687,948, Cl. 307-38.000.
- Kanjo, Wajih; and Sommerfeld, Howard R., 4,645,187, Cl. 267-9.00A.
- Kanjo, Wajih; and Wallace, William D., 4,647,024, Cl. 267-9.00A.
- Kanjo, Wajih; and Housman, Richard J., 4,662,485, Cl. 188-196.00D.
- Kanjo, Wajih, 4,683,991, Cl. 188-197.000.
- Kolkman, Dick J., 4,645,148, Cl. 246-34.00A.
- Kolkman, Dick J., 4,652,986, Cl. 363-56.000.
- Lakowske, Rodney; Tischer, James C.; and Eber, David H., 4,662,819, Cl. 415-129.000.
- Link, Charles T.; Gray, Bennie M.; and Shumaker, Harold L., 4,696,223, Cl. 92-86.500.
- Logsdon, Terance B., Jr.; and Fisher, Donald L., 4,693,501, Cl. 285-173.000.
- Magliano, Silvio, 4,706,791, Cl. 192-8.00R.
- Monch, Heiner, 4,706,709, Cl. 137-597.000.
- Nurczyk, Mark E.; Wilson, Patrick J.; and Wood, Tony J., 4,689,801, Cl. 375-9.000.
- Pearse, Richard H., Jr., 4,679,411, Cl. 62-519.000.
- Rinder, Laurenz, 4,643,654, Cl. 718-201.000.
- Rogers, Larry K., 4,651,623, Cl. 91-396.000.
- Rood, Jerry A., 4,715,733, Cl. 384-445.000.
- Rumsey, Steven C.; Reiss, John R.; and Cymbor, Wayne P., 4,659,149, Cl. 303-3.000.
- Sanders, Walter J., 4,685,052, Cl. 364-426.000.
- Sawyer, George N., 4,688,390, Cl. 62-160.000.
- Stairs, Henry M., Jr., 4,712,256, Cl. 4-661.000.
- Utter, Robert E., 4,655,696, Cl. 418-55.000.
- Wallace, William D., 4,674,729, Cl. 267-9.00A.
- Weseloh, Roger J., 4,657,230, Cl. 267-71.000.

American Stencil, Inc.: *See—*
- McKillip, John J., 4,664,031, Cl. 101-127.100.

American Sterilizer Company: *See—*
- Barron, William R., 4,671,936, Cl. 422-55.000.
- Bier, Mark E., 4,642,165, Cl. 203-12.000.

- Brendgord, Thomas; and Otte, George E., 4,687,215, Cl. 280-79.10R.
- Cummings, Arthur L.; Karle, David A.; and Miller, William R., 4,650,646, Cl. 422-26.000.
- Gehly, Joel C., 4,651,257, Cl. 362-33.000.
- Hall, George D., 4,686,889, Cl. 92-117.00A.
- Houston, John C., 4,706,511, Cl. 74-105.000.
- Kaehler, Kristine M.; Krahe, Ronald P.; Miraldi, Peter T.; and McBride, Richard A., 4,687,635, Cl. 422-26.000.
- Makinen, Ralph W.; and Rickloff, James R., 4,648,978, Cl. 210-759.000.
- Mechlenburg, Douglas M., 4,689,548, Cl. 323-243.000.
- Mielnik, Thaddeus J., Jr.; Fisher, Kenneth J.; and Aggarwal, Mahesh C., 4,708,849, Cl. 422-26.000.
- Misko, Robert J., 4,652,284, Cl. 55-189.000.
- Sanders, Ward L.; and Robinson, David W., 4,678,171, Cl. 269-325.000.
- Sciamanda, Robert J.; and Miller, William R., 4,652,739, Cl. 250-213.00R.

- American Stress Technologies, Inc.: *See—*
  - Tiitto, Seppo I., 4,634,976, Cl. 324-240.000.
- American Tank & Fabricating Co., The: *See—*
  - Youtt, Stanley A.; and Dixon, John W., 4,697,618, Cl. 137-587.000.
- American Tech Manufacturing, Inc.: *See—*
  - Linker, Frank V.; and Linker, Frank V., Jr., 4,665,954, Cl. 140-147.000.
  - Linker, Frank V.; and Shuren, Thomas E., 4,704,700, Cl. 364-550.000.
  - Linker, Frank V.; and Linker, Frank V., Jr., 4,705,152, Cl. 193-39.000.
  - Linker, Frank V., Jr.; and Shuren, Thomas E., 4,686,637, Cl. 364-550.000.
- American Technical Ceramics Corp.: *See—*
  - Seaman, Harry V., 4,661,884, Cl. 361-306.000.
- American Technologies, Inc.: *See—*
  - Ott, Robert J., 4,701,942, Cl. 378-156.000.
- American Telephone and Telegraph Company: *See—*
  - Anderson, Lewis G.; and Ku, Wen, 4,655,048, Cl. 370-94.000.
  - Aranguren, William L.; Restrepo, Mario A.; and Sidey, Michael J., 4,674,085, Cl. 370-85.000.
  - Ash, Gerald R.; and Oliver, Billy B., 4,669,113, Cl. 379-221.000.
  - Avedissian, Michael K.; and Hertzog, Earl D., 4,667,870, Cl. 228-103.000.
  - Banzi, Frederick J., Jr.; Dugan, Michael J.; and Sharper, Craig A., 4,675,862, Cl. 370-15.000.
  - Bauer, David L.; Bowyer, Larry D.; Ruby, David M.; and Windhausen, Richard A., 4,707,694, Cl. 340-825.520.
  - Becraft, Arthur D.; Citron, Howard M.; and Tatarski, Joseph E., 4,684,198, Cl. 439-571.000.
  - Berry, Robert W.; Kaufman, Stanley; and Zwickel, Friedrich, 4,657,346, Cl. 350-320.000.
  - Bhatia, Rajiv; and Kneuer, Joseph G., 4,672,604, Cl. 370-58.000.
  - Blahut, Donald E., 4,677,545, Cl. 364-200.000.
  - Braff, Martin; and Hluchyj, Michael G., 4,644,533, Cl. 370-94.000.
  - Carbrey, Robert L., 4,651,134, Cl. 340-425.000.
  - Carbrey, Robert L., 4,656,661, Cl. 379-399.000.
  - Crupi, Joseph A.; Hayward, David J.; and Jones, David F., 4,703,416, Cl. 364-200.000.
  - Cubbison, Richard J., Jr., 4,706,281, Cl. 379-322.000.
  - Dalby, John C., Jr.; and Ward, Charles E. W., 4,656,623, Cl. 370-60.000.
  - Daudelin, Douglas S., 4,652,775, Cl. 307-359.000.
  - Dickinson, David A., 4,698,915, Cl. 34-23.000.
  - Duguay, Michel A.; Koch, Thomas L.; Kokubun, Yasuo; and Pfeiffer, Loren N., 4,715,672, Cl. 350-96.120.
  - Emkey, William L., 4,666,234, Cl. 350-96.150.
  - Falkman, Richard J.; and Varvaro, Charles, 4,677,430, Cl. 340-723.000.
  - Farrow, Cecil W., 4,709,374, Cl. 375-13.000.
  - Flanagan, James L., 4,653,606, Cl. 181-145.000.
  - Galensky, Duane; and Giuliani, Adrian A., 4,665,545, Cl. 379-158.000.
  - Gartner, William J., 4,715,044, Cl. 375-8.000.
  - Gitlin, Richard D.; and Werner, Jean-Jacques, 4,644,537, Cl. 370-119.000.
  - Glessner, Charles W., Jr.; and Przydzial, Kazimierz, 4,646,419, Cl. 29-559.000.
  - Goodrich, Robert R.; and Sepe, Edmund N., 4,699,443, Cl. 439-188.000.
  - Grimes, Gary J.; Lanzafame, Christopher; and Moffitt, Bryan S., 4,672,299, Cl. 323-217.000.
  - Hayden, Charles C., 4,653,090, Cl. 379-204.000.
  - Hechtman, Charles D., 4,704,550, Cl. 307-571.000.
  - Hsia, Richard Y.; and Liu, Thomas C., 4,685,123, Cl. 379-93.000.
  - Illuzzi, Vincent A.; Kutzavitch, Walter G.; and Rooney, Allen J., III, 4,642,550, Cl. 323-222.000.
  - King, Gary S., 4,656,658, Cl. 379-221.000.
  - Lea, Chin-Tau A., 4,656,622, Cl. 370-60.000.
  - Leamy, Harry J., 4,670,086, Cl. 156-620.000.
  - Liu, Thomas C., 4,646,347, Cl. 379-375.000.
  - Luryi, Sergey, 4,691,215, Cl. 357-22.000.
  - McPherson, Ross; Smolik, Kenneth F.; and Thomson, David J., 4,698,769, Cl. 364-724.000.
  - Mukerji, Jishnu, 4,654,845, Cl. 370-58.000.
  - O'Connor, Kevin J., 4,660,177, Cl. 365-189.000.
  - O'Connor, Robert J., 4,688,875, Cl. 439-676.000.
  - Olson, Jeffrey J.; Peck, Stephen R.; and Seaton, David P., 4,679,189, Cl. 370-60.000.
  - Presby, Herman M., 4,676,594, Cl. 350-96.290.
  - Rzeszewski, Theodore S., 4,672,427, Cl. 358-13.000.
  - Sheets, Laurence L., 4,670,837, Cl. 364-200.000.
  - Tai, King L., 4,670,770, Cl. 357-60.000.
  - Thapar, Hemant K., 4,651,320, Cl. 370-119.000.
  - Thierbach, Mark E., 4,661,922, Cl. 364-716.000.
  - Torok, Gabor P.; and White, Andrew B., 4,694,472, Cl. 375-107.000.
  - Vanacore, Vincent D., 4,691,346, Cl. 379-198.000.
  - Werner, Jean J., 4,682,358, Cl. 379-411.000.
  - Zave, Derek A., 4,685,125, Cl. 379-96.000.
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  - Aberson, James A., Jr.; DeVeau, George F., Jr.; Mathis, Terry D.; and Miller, Calvin M., 4,691,986, Cl. 350-96.210.
  - Ackerman, David A.; Camarda, Renato M.; Hartman, Robert L.; and Spector, Magaly, 4,684,883, Cl. 324-71.500.
  - Adelmann, Harry W.; and Tomcik, Jame D., 4,703,477, Cl. 370-94.000.
  - Ahmad, Mahmood; Sawyer, Albert J.; Schreiner, Wayne L.; and Thomas, Gerald H., 4,686,701, Cl. 379-211.000.
  - Alferness, Rodney C.; Eisenstein, Gadi; and Korotky, Steven K., 4,667,331, Cl. 372-12.000.
  - Alferness, Rodney C., 4,711,515, Cl. 350-96.140.
  - Allara, David L.; and Nuzzo, Ralph G., 4,690,715, Cl. 148-6.15R.
  - Anderson, Jerry M.; Cannon, Thomas C., Jr.; Darden, Bruce V.; and Smith, Donald T., 4,684,195, Cl. 439-404.000.
  - Andrews, George E.; Davis, Paul C.; Farley, Dennis C.; Kravitz, Stanley H.; Meeker, Thrygve R.; Petersen, Owe G.; and Schelling, Arthur W., 4,715,049, Cl. 375-106.000.
  - Angell, Eric H.; Aprille, Thomas J.; Azaret, Juan O.; Fang, Rong-Chin; Lee, Byeong G.; Longwell, Brian C.; Sharper, Craig A.; and Spalink, Jan-Dieter, 4,716,561, Cl. 370-55.000.
  - Ansell, Henry G.; and Saunders, Jeffrey H., 4,712,077, Cl. 331-25.000.
  - Atal, Bishnu S., 4,701,954, Cl. 381-49.000.
  - Atal, Bishnu S.; and Caspers, Barbara E., 4,709,390, Cl. 381-51.000.
  - Banzi, Frederick J., Jr.; Dugan, Michael J.; Johnson, Randolph W.; Saylor, Douglas D.; and Sharper, Craig A., 4,688,209, Cl. 370-15.000.
  - Bayruns, Robert J.; and Weston, Harry T., 4,691,331, Cl. 377-47.000.
  - Bean, John C.; and Ourmazd, Abbas, 4,661,829, Cl. 357-30.000.
  - Bean, John C., 4,681,773, Cl. 427-38.000.
  - Becke, Hans W.; and Smith, Robert K., 4,691,220, Cl. 357-39.000.
  - Bennett, James E., 4,668,927, Cl. 335-58.000.
  - Benvenuto, Nevio; and Bertocci, Guido, 4,677,423, Cl. 340-347.0DD.
  - Beranek, Allen J.; Furchtgott, David G.; and Tu, Tuan B., 4,700,340, Cl. 370-16.000.
  - Berkstresser, George W.; and Shmulovich, Joseph, 4,695,762, Cl. 313-474.000.
  - Billings, Robert L., 4,692,604, Cl. 235-493.000.
  - Blyler, Lee L., Jr., 4,691,989, Cl. 350-96.230.
  - Bossard, Peter R.; and Mucha, John A., 4,711,118, Cl. 73-73.000.
  - Bowers, Thomas E.; Frey, Alan E.; Kerr, Howard A.; Russell, Larry A.; and Stone, Roger E., 4,704,716, Cl. 370-58.000
  - Bowman, Wayne C.; Magalhaes, Frank M.; Suiter, Weyman B., Jr.; and Ziesse, Norman G., 4,685,041, Cl. 363-40.000.
  - Brahm, David J.; Grinn, James M.; Hepler, Edward L.; and Schan, Edward P., Jr., 4,713,834, Cl. 379-28.000.
  - Brandle, Charles D., Jr.; Fratello, Vincent J.; and Wolfe, Raymond, 4,698,820, Cl. 372-41.000.
  - Brooks, Kenneth L.; Bufkin, Paul R.; Mihal, David G.; and Miller, Jerry G., 4,679,232, Cl. 379-413.000.
  - Brown, Donald W.; Leth, James W.; and Vandendorpe, James E., 4,710,926, Cl. 371-9.000.
  - Brubaker, John L., 4,699,454, Cl. 350-96.200.
  - Bruning, John H., 4,703,166, Cl. 250-201.000.
  - Budrikis, Zigmantas L.; Hatamian, Mehdi; Kubik, Peter S.; and Netravali, Arun N., 4,705,942, Cl. 250-227.000.
  - Burrus, Charles A., Jr.; Kohl, Paul A.; Lee, Tien P.; and Ostermayer, Frederick W., Jr., 4,689,125, Cl. 204-129.300
  - Burton, Randolph H.; Camlibel, Irfan; and Saul, Robert H., 4,700,210, Cl. 357-17.000.
  - Capasso, Federico; Cho, Alfred Y.; Hutchinson, Albert L.; and Mohammed, Khalid, 4,679,061, Cl. 357-4.000.
  - Capasso, Federico; and Cho, Alfred Y., 4,686,550, Cl. 357-16.000.
  - Capasso, Federico; and Tsang, Won-Tien, 4,694,318, Cl. 357-30.000.
  - Capasso, Federico; and Luryi, Sergey, 4,704,622, Cl. 357-4.000.
  - Celler, George K., 4,676,841, Cl. 148-1.500.
  - Chandross, Edwin A.; Reichmanis, Elsa; and Wilkins, Cletus W., Jr., 4,666,820, Cl. 430-270.000.
  - Chandross, Edwin A.; Dean, Robert E.; Gallagher, Patrick K.; Levy, Roland A.; Schrey, Frank; and Smolinsky, Gerald, 4,708,884, Cl. 427-39.000.
  - Chang, Shih-Jeh; Emery, Richard T.; and Hakim, Shafik J., 4,683,584, Cl. 379-269.000.
  - Chang, Shih-Jeh, 4,686,669, Cl. 370-54.000.
  - Chang, Shih-Jeh; Emery, Richard T.; Hakim, Shafik J.; and Sand, Douglas S., 4,694,487, Cl. 379-269.000.
  - Chen, Chung Y., 4,707,219, Cl. 156-644.000.
  - Chin, Brymer H., 4,662,983, Cl. 156-624.000.

Ching, Yau-Chau; Huang, Nian-Chyi; and Tomcik, James D., 4,665,514, Cl. 370-60.000.
Cohen, Leonard G.; Johnson, David W., Jr.; and MacChesney, John B., 4,691,990, Cl. 350-96.330.
Cohen, Leonard G.; and Fleming, James W., 4,699,464, Cl. 350-96.340.
Cohen, Richard L.; and West, Kenneth W., 4,667,149, Cl. 324-64.000.
Dahbura, Anton T.; and Sabnani, Krishan K., 4,692,921, Cl. 371-27.000.
Darcie, Thomas E., 4,701,904, Cl. 370-3.000.
Davies, Scott T.; Gagen, Paul F.; and Hardwick, Nathan E., III, 4,662,713, Cl. 350-96.200.
Davis, James A.; MacPherson, William F.; Mussman, Harry E.; and Shackle, Peter W., 4,656,366, Cl. 307-252.00A.
Debus, Walter, Jr.; Osborne, Thomas L.; and Siller, Curtis A., Jr., 4,710,891, Cl. 364-718.000.
De Kelaita, Nergal R.; Hall, Joe T.; and Kletscher, Barrie D., 4,713,758, Cl. 364-200.000.
DeWitt, Gregory S.; Driscoll, John J.; and Shepherd, John L., 4,688,214, Cl. 370-94.000.
Dillon, Joseph F., Jr.; Hegarty, John; and Wolfe, Raymond, 4,671,621, Cl. 350-403.000.
Dolan, Gerald J.; Logan, Ralph A.; Temkin, Henryk; and Wilt, Daniel P., 4,701,995, Cl. 437-129.000.
Dretzka, Ellen E.; Quan, Zoe S.; and Schreiner, Philip A., 4,703,475, Cl. 370-60.000.
Dyer, Christopher K., 4,680,241, Cl. 429-49.000.
Emkey, William L.; and Jack, Curtis A., 4,701,011, Cl. 350-96.180.
Eng, Kai Y.; and Yue, On-Ching, 4,652,733, Cl. 235-462.000.
Faust, Carl W., 4,704,499, Cl. 174-92.000.
Fineblum, Solomon S., 4,679,890, Cl. 439-884.000.
Forrest, Stephen R.; Lieberman, Robert A.; and Panock, Richard L., 4,709,413, Cl. 455-606.000.
Foschini, Gerard J.; and Vannucci, Giovanni, 4,703,474, Cl. 370-18.000.
Fraidlin, Simon, 4,688,160, Cl. 363-21.000.
Frye, Robert C.; and Tai, King L., 4,703,288, Cl. 333-1.000.
Gabriel, Kaigham J.; Trimmer, William S. N.; and Walker, James A., 4,700,541, Cl. 60-528.000.
Galensky, Duane; and Hammett, Warren G., 4,697,264, Cl. 370-111.000.
Gans, Michael J., 4,682,180, Cl. 343-769.000.
Gans, Michael J.; Schneider, Martin V.; and Trambarulo, Ralph F., 4,689,631, Cl. 343-781.00T
Gartside, Charles H., III; Levy, Alvin C.; Overton, Bob J.; and Taylor, Carl R., 4,701,016, Cl. 350-96.230.
Gavrilovich, Charles D., 4,685,129, Cl. 379-324.000.
Geary, John M.; and Patel, Jayantilal S., 4,664,480, Cl. 350-350.00S.
Geary, John M., 4,707,078, Cl. 350-332.000.
Georgiou, George E.; and Poli, Gary N., 4,692,349, Cl. 437-230.000.
Glance, Bernard, 4,697,284, Cl. 455-619.000.
Glass, Alastair M.; and Johnson, Anthony M., 4,703,996, Cl. 350-96.110.
Goldstein, Alan J.; and Nusser, Terry R., 4,698,752, Cl. 364-200.000.
Gordon, Eugene I.; and Levy, Uri, 4,695,332, Cl. 437-126.000.
Gordon, James P.; Islam, Mohammed N.; and Mollenauer, Linn F., 4,700,339, Cl. 370-3.000.
Gradl, David A.; and Krueger, James R., 4,704,670, Cl. 363-21.000.
Green, Martin L.; Levy, Roland A.; and Nuzzo, Ralph G., 4,716,050, Cl. 427-99.000.
Grewal, Kalwant S.; Ordun, Michael R.; Quan, Zoe S.; Sawyer, Albert J.; and Sneed, Elbert L., Jr., 4,689,815, Cl. 379-269.000.
Grinn, James M.; and McWethy, Kevin A., 4,675,808, Cl. 364-200.000.
Hanlon, James T.; and Renaut, Paul W., 4,680,563, Cl. 335-58.000.
Hansen, Terris L.; Hyatt, Wayne E.; and Leung, Wu-Hon F., 4,695,977, Cl. 364-900.000.
Harstead, Edward E.; Klafter, Leon; and Shi, Yan-Chi, 4,643,521, Cl. 350-96.200.
Heimann, Peter A.; Moran, Joseph M.; and Schutz, Ronald J., 4,680,084, Cl. 156-626.000.
Heisinger, Robert F., 4,710,846, Cl. 361-119.000.
Helms, Howard D., 4,706,208, Cl. 364-580.000.
Henry, Paul S., 4,704,722, Cl. 375-120.000.
Hensel, John C.; Levi, Anthony F. J.; and Tung, Raymond T., 4,707,197, Cl. 437-189.000.
Herrero, Victor; and Schaper, Leonard W., 4,675,717, Cl. 357-71.000.
Higashi, Gregg S., 4,701,347, Cl. 437-246.000.
Hinton, Harvard S.; and Ostrander, John L., 4,703,993, Cl. 350-3.720.
Hinton, Harvard S.; and Ostrander, John L., 4,705,344, Cl. 350-3.730.
Huffman, Jacque S., 4,692,895, Cl. 364-900.000.
Ibbotson, Dale E.; and Tu, Charles W., 4,689,115, Cl. 156-646.000.
Jewell, Jack L., 4,701,030, Cl. 350-354.000.
Jirka, Howard F., 4,679,132, Cl. 363-21.000.
Johnson, David W., Jr.; MacChesney, John B.; Rabinovich, Eliezer M.; and Vogel, Eva M., 4,707,174, Cl. 65-18.100.
Johnston, Wilbur D., Jr.; Long, Judith A.; and Wilt, Daniel P., 4,660,208, Cl. 372-46.000.
Johnston, Wilbur D., Jr.; and Long, Judith A., 4,716,130, Cl. 437-104.000.
Kahn, Daniel, 4,665,548, Cl. 381-43.000.
Kapur, Rajan N., 4,700,320, Cl. 364-521.000.
Kapur, Rajan N.; and Szurkowski, Edward S., 4,710,761, Cl. 340-721.000.
Kavehrad, Mohsen; and Salz, Jack, 4,644,562, Cl. 375-14.000.
Kavehrad, Mohsen; and McLane, Peter J., 4,672,658, Cl. 379-63.000.
Kavehrad, Mohsen; and Sundberg, Carl-Erik, 4,701,909, Cl. 370-85.000.
Kemper, Kyran B.; and Vetter, Robert W., Jr., 4,641,299, Cl. 370-15.000.
Kirsch, Howard C., 4,672,243, Cl. 307-475.000.
Kirsch, Howard C.; and Procyk, Frank J., 4,679,172, Cl. 365-222.000.
Kirsch, Howard C., 4,704,547, Cl. 307-443.000.
Koeneke, Conrad J.; Lepselter, Martin P.; and Lynch, William T., 4,665,414, Cl. 357-15.000.
Krause, John T., 4,689,065, Cl. 65-2.000.
Krause, John T.; Kurkjian, Charles R.; and Paek, Un-Chul, 4,713,105, Cl. 65-4.100.
Lea, Chin-Tau A.; and Montgomery, Warren A., 4,661,947, Cl. 370-60.000.
Lea, Chin-Tau A., 4,679,186, Cl. 370-14.000.
Lebowitz, Joseph; and Lynch, William T., 4,694,561, Cl. 437-52.000.
Lee, Kuo-hua; and Polanco, Samuel E., 4,676,869, Cl. 156-643.000.
Leland, Kenneth W.; and Sollenberger, Nelson R., 4,661,993, Cl. 455-103.000.
Lepselter, Martin P.; Sinha, Ashok K.; and Vaidya, Sheila, 4,675,715, Cl. 357-59.000.
Lin, Albert M., 4,676,847, Cl. 148-188.000.
Lin, Heng-Cheng, 4,697,188, Cl. 342-383.000.
Lisco, Richard J.; and Ocenasek, Josef, 4,677,632, Cl. 372-38.000.
Liuzzo, James G.; and Proetta, William J., 4,698,618, Cl. 340-365.00R.
LoCicero, Joseph L.; Pazarci, Melih; and Rzeszewski, Theodore S., 4,694,328, Cl. 358-21.00V.
Ludwick, John J.; and Parsons, Edward S., 4,663,583, Cl. 323-217.000.
Luther, Lars C.; and Singh Rana, Virendra V., 4,690,726, Cl. 156-624.000.
Lynch, William T.; and Parrillo, Louis C., 4,656,730, Cl. 29-571.000.
MacChesney, John B.; and Simpson, Jay R., 4,666,247, Cl. 350-96.340.
Mackenzie, Donald R., 4,699,456, Cl. 350-96.200.
Malick, Robert G., 4,669,694, Cl. 248-397.000.
Marsh, Douglas G., 4,677,323, Cl. 307-571.000.
McCullough, Harold E., 4,701,721, Cl. 335-79.000.
McCullough, Harold E., 4,706,056, Cl. 335-192.000.
Miller, David A.; Moran, Joseph M.; and Taylor, Gary N., 4,683,024, Cl. 156-643.000.
Miller, David A. B., 4,711,997, Cl. 250-216.000.
Miller, David A. B., 4,716,449, Cl. 357-30.000.
Mollenauer, Linn F.; and Stolen, Rogers H., 4,699,452, Cl. 350-96.160.
Moy, Thomas H., 4,697,105, Cl. 307-465.000.
Murdock, James H., 4,672,518, Cl. 363-21.000.
Myer, Robert E., 4,658,260, Cl. 343-792.000.
Nelson, Ronald J.; and Wilson, Randall B., 4,661,961, Cl. 372-46.000.
Ng, Fred K., 4,686,620, Cl. 364-200.000.
Novembre, Anthony E.; and Reichmanis, Elsa, 4,701,342, Cl. 427-38.000.
Oberlander, Lewis B.; Spicer, David A.; and Straubs, Ralph V., 4,713,806, Cl. 370-58.000.
Payne, Richard S., 4,684,971, Cl. 357-42.000.
Payne, William A., III, 4,696,000, Cl. 370-60.000.
Payne, William A., III, 4,706,240, Cl. 370-60.000.
Piereth, Richard J.; Potter, Robert L.; and Williams, John R., 4,677,609, Cl. 370-60.000.
Poteat, Tommy L.; and Trimmer, William S. N., 4,688,885, Cl. 350-96.200.
Presby, Herman M., 4,672,198, Cl. 250-227.000.
Presby, Herman M., 4,710,605, Cl. 219-121.0LJ.
Presby, Herman M., 4,712,858, Cl. 350-96.150.
Ransom, Maurice N.; and Toy, Wing N., 4,701,906, Cl. 370-60.000.
Rouse, David M.; Wallace, Richard E.; and Zelms, Charles M., 4,683,563, Cl. 370-16.000.
Schrofer, Eldred P., 4,682,284, Cl. 364-200.000.
Seidel, Harold, 4,704,671, Cl. 363-56.000.
Sessler, Martin; and West, James E., 4,675,906, Cl. 381-92.000.
Shoji, Masakazu, 4,668,880, Cl. 307-469.000.
Shoji, Masakazu, 4,670,670, Cl. 307-297.000.
Shoji, Masakazu, 4,710,650, Cl. 307-452.000.
Snyder, Donald Q., 4,711,053, Cl. 51-3.000.
Sollenberger, Nelson R., 4,695,969, Cl. 364-724.000.
Stanley, Keith R.; and Winchell, David F., 4,691,347, Cl. 379-203.000.
Stohs, Norbert E., 4,704,641, Cl. 360-53.000.
Swartz, Robert G., 4,680,810, Cl. 455-609.000.
Tuhy, Frank P., Jr., 4,665,547, Cl. 379-402.000.
Turnpaugh, George F., 4,705,970, Cl. 307-600.000.
Vaidya, Avinash K., 4,670,871, Cl. 370-60.000.
Wilde, Peter V. D., 4,659,175, Cl. 350-96.200.
Yiannoulos, Aristides A., 4,705,322, Cl. 361-91.000.

  - Zado, Frank M., 4,701,224, Cl. 148-23.000.
- American Telephone & Telegraph Company, AT&T Information Systems Inc.: *See—*
  - DiPiazza, Philip S.; Lynn, Dale E.; and Weber, Donald J., 4,707,689, Cl. 340-706.000.
- American Telephone and Telegraph Company, AT&T Information Systems Inc.: *See—*
  - Baker, Robin C.; Brown, Steven E.; Lothrop, John R.; Lozyniak, Roman; Miller, Paul E.; Olsen, Robert H.; Parker, Charles H.; and Swoll, Eva C., 4,680,786, Cl. 379-60.000.
  - Bales, Bruce M.; London, Steven M.; and Schmidt, Nancy K., 4,661,974, Cl. 379-198.000.
  - Bland, Randall J., 4,663,519, Cl. 235-492.000.
  - Brown, Reed S.; Consoli, John J.; and Klier, Richard G., 4,712,236, Cl. 379-433.000.
  - Chan, Norman C.; and Pederson, Leif K., 4,653,085, Cl. 379-94.000.
  - Doyle, Francis S.; and France, Randall W., 4,710,954, Cl. 379-427.000.
  - Emerson, William D.; Hill, Deborah J.; Loeb, Karen C.; Mizrahi, Albert; Schlegel, Charles T.; and Scott, Lowell C., 4,646,346, Cl. 379-214.000.
  - Franklin, Andrew D., 4,677,616, Cl. 370-94.000.
  - Goke, Louis R.; and Grimes, Gary J., 4,698,802, Cl. 370-60.000.
  - Grimes, Gary J., 4,651,103, Cl. 328-72.000.
  - Hasley, Lloyd A.; and Raamot, Jaan, 4,656,627, Cl. 370-85.000.
  - Hasley, Lloyd A.; and Raamot, Jaan, 4,694,196, Cl. 307-269.000.
  - Hasley, Lloyd A., 4,704,606, Cl. 340-825.500.
  - Kasday, Leonard R., 4,710,760, Cl. 340-712.000.
  - Khanna, Satya P., 4,691,363, Cl. 381-205.000.
  - Kimball, David B.; and Kip, Ruloff F., Jr., 4,713,564, Cl. 307-542.100.
  - Means, Donald R.; True, Robert C.; and Wickliff, Noble E., 4,700,382, Cl. 379-390.000.
  - Vanacore, Vincent D., 4,672,654, Cl. 379-49.000.
  - Vanacore, Vincent D., 4,682,354, Cl. 379-211.000.
- American Telephone and Telegraph Company, AT&T Technologies Inc.: *See—*
  - Anderson, Carl R.; and Seaman, Gary G., 4,678,073, Cl. 198-396.000.
  - Baynes, Jerre E.; and Knepple, Nick L., 4,672,158, Cl. 200-283.000.
  - Bohannon, Harold L., 4,658,421, Cl. 379-422.000.
  - Burson, Klye L.; Campbell, Scott O.; Ganesan, Apparajan; and Morrison, Ronald A., 4,677,322, Cl. 307-525.000.
  - Campbell, Eric R.; and Moss, Joe B., 4,692,564, Cl. 174-92.000.
  - Cartwright, John S., 4,689,866, Cl. 29-426.600.
  - Caruso, Robert D.; and Messina, Joseph A., 4,678,891, Cl. 219-121.0LJ.
  - Dines, David R.; and Webb, Vertis C., 4,693,408, Cl. 228-47.000.
  - Everhart, Robert W.; and Huck, Charles T., 4,695,836, Cl. 340-750.000.
  - Harringer, Robert V.; Rada, Robert O.; and Vesely, Edward J., 4,681,208, Cl. 198-341.000.
  - Hutchins, Erle M., 4,714,440, Cl. 439-676.000.
  - Koze, Jeffrey T., 4,687,682, Cl. 437-238.000.
  - Macdonald, John B., 4,697,175, Cl. 340-707.000.
  - Myers, Daryl L., 4,696,438, Cl. 242-118.410.
  - Tardy, John, 4,710,697, Cl. 323-239.000.
- American Television & Communications Corporation: *See—*
  - Masuko, Akinori; Kuroiwa, Wataru; Uehara, Shouji; Uekusa, Tsutomu; Rast, Robert M.; and Campbell, W. Sherwood, 4,686,564, Cl. 358-86.000.
  - Rast, Robert M.; and Wreford-Howard, David, 4,684,980, Cl. 358-86.000.
  - Rast, Robert M., 4,710,956, Cl. 380-20.000.
  - Wreford-Howard, David, 4,673,976, Cl. 358-10.000.
- American Thermal Corporation: *See—*
  - Zebuhr, William H., 4,658,760, Cl. 122-13.00R.
- American Thermometer Co., Inc.: *See—*
  - Brown, George T., Jr., 4,691,712, Cl. 125-736.000.
- American Threshold Industries, Inc.: *See—*
  - Bayer, Robert T., 4,650,368, Cl. 405-111.000.
- American Tourister, Inc.: *See—*
  - Wickman, John A., 4,679,670, Cl. 190-18.00A.
  - Wickman, John A.; and Killian, John J., III, 4,683,731, Cl. 70-69.000.
- American Toxic Disposal Partners: *See—*
  - Meenan, William C.; and Sullivan, George D., 4,685,220, Cl. 34-10.000.
  - Meenan, William C.; and Sullivan, George D., 4,699,721, Cl. 210-771.000.
- American Toy & Furniture Co., Inc.: *See—*
  - Zalesak, Jon, 4,702,638, Cl. 403-403.000.
- American Trading and Production Corporation: *See—*
  - Grote, Warren; and Leu, Frederick R., 4,673,149, Cl. 248-343.000.
- American Type Culture Collection: *See—*
  - Daggett, Pierre-Marc; and Simione, Frank P., 4,672,037, Cl. 435-253.000.
- American Woodwork Specialty Co., Inc.: *See—*
  - Knapp, Michael E., 4,693,043, Cl. 52-211.000.
- Amerock Corporation: *See—*
  - Bates, Wayne C., 4,679,352, Cl. 49-192.000.
  - Boda, John W., 4,637,582, Cl. 248-315.000.
  - DeBruyn, William, 4,639,051, Cl. 312-275.000.
  - DeBruyn, William, 4,653,818, Cl. 312-246.000.
  - DeBruyn, William, 4,692,964, Cl. 16-367.000.
  - Lensc, Robert F., 4,703,960, Cl. 292-69.000.
  - Roehrig, Phillip J.; and Gray, Neal R., 4,685,347, Cl. 74-436.000.
  - Wright, Thomas M., 4,644,691, Cl. 49-161.000.
- Ameron, Inc.: *See—*
  - Ballester, Hector G., 4,660,908, Cl. 339-14.00R.
  - Dana, William R., 4,703,940, Cl. 277-207.00A.
  - Foscante, Raymond E.; Stevens, Charles D.; and Parson, Lee M., 4,670,481, Cl. 523-122.000.
  - McLaughlin, Hugh T., 4,635,162, Cl. 361-215.000.
  - Montes, Ernesto, 4,647,479, Cl. 427-327.000.
  - Mowrer, Norman R., 4,695,618, Cl. 528-55.000.
- Amersham International plc: *See—*
  - Chiswell, David J., 4,716,106, Cl. 435-6.000.
  - Colin, David, 4,715,988, Cl. 252-408.100.
  - Cumming, Stephen A.; and Kelly, James D., 4,642,229, Cl. 424-1.100.
  - Edwards, John C.; Allen, Gerald J.; Martin, John K.; and Summers, Malcolm R., 4,666,863, Cl. 436-514.000.
  - Harrison, Roger C., 4,645,659, Cl. 424-1.100.
  - Mundy, Christopher R., 4,656,127, Cl. 435-6.000.
- Amerson, Leon: *See—*
  - Mobley, Tommie; and Amerson, Leon, 4,664,399, Cl. 280-43.170.
- Amerson, Roger H.: *See—*
  - Dorumsgaard, John A.; and Amerson, Roger H., 4,648,774, Cl. 414-416.000.
- Ames, Adolf: *See—*
  - Wagner, Alfred; Hodel, Ulf; and Ames, Adolf, 4,703,642, Cl. 72-259.000.
- Ames, Alan J., to United States of America, Army. Optical collimator target illumination. 4,716,507, 12-29-87, Cl. 362-311.000.
- Ames, Douglas A., to Transphase Systems, Inc. Eutectoid salt composition for coolness storage. 4,689,164, 8-25-87, Cl. 252-70.000.
- Ames, Jimmy R.: *See—*
  - Bradford, James N.; Ames, Jimmy R., and Montroll, Andrew H., 4,713,821, Cl. 372-44.000.
- Ames, Kenneth R.; Doesburg, James M.; Eschbach, Eugene A.; Kelley, Roy C.; and Myers, David A., to Battelle Development Corporation. Groundwater monitoring system. 4,669,536, 6-2-87, Cl. 166-68.000.
- Ames, Kenneth R.; and Doesburg, James M., to Battelle Development Corporation. Well pump. 4,688,999, 8-25-87, Cl. 417-550.000.
- Ames, P. Foerd. Ocean wave energy converter. 4,672,222, 6-9-87, Cl. 290-53.000.
- Ames Safety Envelope Company: *See—*
  - Traynor, Gary A., 4,653,639, Cl. 206-444.000.
- Ames, Theodore; and Brown, Vernon E., Jr., to Glacier Products, Inc. Apparatus for manufacturing soft ice cream and the like. 4,712,920, 12-15-87, Cl. 366-144.000.
- Amesbury Industries, Inc.: *See—*
  - Evans, Robert D.; and Blezard, Robert C., 4,713,130, Cl. 156-72.000.
- Ametek, Inc.: *See—*
  - Arechaga, John C., 4,635,755, Cl. 185-45.000.
  - Bagby, Robert J., 4,674,831, Cl. 350-96.200.
  - Capone, David M., 4,653,334, Cl. 73-863.810.
  - Cuthbertson, Robert H., 4,676,319, Cl. 169-70.000.
  - D'Angelo, Joseph J.; and D'Angelo, Joseph J., Jr., 4,699,031, Cl. 83-23.000.
  - Doty, Mitchell E.; and Bernitsky, Thom V., 4,689,247, Cl. 427-126.100.
  - Forsyth, Thomas C., III; Kline, Leonard J., Jr.; and McCauley, Daniel F., 4,669,952, Cl. 415-119.000.
  - Harris, Francis T., 4,656,073, Cl. 428-85.000.
  - Kalagidis, Memorial, 4,638,197, Cl. 310-67.00R.
  - Kline, Leonard J., Jr.; and Forsyth, Thomas C., III, 4,684,835, Cl. 310-59.000.
  - McCall, Floyd, 4,638,672, Cl. 73-861.520
  - Meyer, Emilio, 4,647,777, Cl. 250-339.000.
  - Meyers, Peter V.; Liu, Chung-Heng; and Frey, Timothy J., 4,710,589, Cl. 136-258.0PC.
  - Olsen, Ralph A., 4,692,087, Cl. 414-680.000.
  - Simmons, Robert L., Sr.; and Wyant, Clifton M., 4,641,291, Cl. 367-157.000.
  - Smith, Francis E.; Hyatt, Robert L.; and Kline, Leonard J., Jr., 4,698,534, Cl. 310-89.000.
  - Wham, John L.; Mackey, Lawrence A.; and Haselton, Frederick R., 4,648,345, Cl. 114-338.000.
- Ameur, Hanafi. Arrangement for safety belt. 4,678,134, 7-7-87, Cl. 242-107.40A.
- Amey, Jeffrey: *See—*
  - Larkin, Francis; and Amey, Jeffrey, 4,674,060, Cl. 364-567.000.
- Ameyama, Minoru; Isayama, Takuro; Yamazaki, Hiroshi; Matsumoto, Shuzo; Katano, Yasuo; and Iwasaki, Kyuhachiro, to Ricoh Company, Ltd. Ink receptacle for ink jet printer. 4,673,955, 6-16-87, Cl. 346-140.00R.
- AMF Bowling Companies Inc.: *See—*
  - Speranza, Daniel R., 4,674,745, Cl. 273-51.000.
- AMF Incorporated: *See—*
  - Campbell, Sterrett P., 4,661,364, Cl. 426-496.000.
  - Esch, Friedrich D.; and Price, John G., 4,696,146, Cl. 53-529.000.
  - Esch, Friedrich D.; and Price, John G., 4,698,953, Cl. 53-529.000.
  - Longabaugh, Charles R., 4,636,949, Cl. 364-400.000.
  - Ray, Eric T., 4,700,720, Cl. 131-118.000.
  - Speranza, Daniel R., 4,640,511, Cl. 273-49.000.
  - Storace, Anthony; and Yannella, Albert V., 4,672,750, Cl. 33-199.00R.
  - Vigg, Peter, 4,672,982, Cl. 131-290.000.
  - Yuhas, Drew J.; and Boggia, Joseph, 4,634,124, Cl. 273-73.00G.

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    Banks, Allen R.; and Hare, David L., 4,689,406, Cl. 536-27.000.
    Jones, Theodore; and Rudman, Christopher G., 4,699,897, Cl. 514-4.000.
    Souza, Lawrence M., 4,666,839, Cl. 435-91.000.
    Stabinsky, Yitzhak, 4,652,639, Cl. 536-27.000.
    Stabinsky, Yitzhak, 4,695,623, Cl. 530-351.000.
mgen, Inc.: *See—*
    Morris, Charles F., 4,710,473, Cl. 435-320.000.
MI, Inc.: *See—*
    Johnson, James R.; and Hudgens, Mark, 4,664,649, Cl. 493-197.000.
mi, Kazuhiko: *See—*
    Kitabatake, Shoichi; Yabe, Yuhiko; and Ami, Kazuhiko, 4,666,361, Cl. 414-680.000.
Amiad: *See—*
    Amit, Meir, 4,710,284, Cl. 209-17.000.
Amiad Sinun Vehashkaya: *See—*
    Beth, Frank, 4,651,765, Cl. 137-99.000.
    Orlans, Itzhak, 4,692,247, Cl. 210-314.000.
Amici, Francesco: *See—*
    Brugnoli, Vincenzo, 4,683,907, Cl. 137-414.000.
Amici, Francis R.; and Mercurio, Domenic G., to Coleco Industries, Inc. Humanoid figure assembly and method for assembling same. 4,669,998, 6-2-87, Cl. 446-383.000.
Amick, David R., to Rohm and Haas Company. Microbiocidal article for aqueous systems. 4,656,057, 4-7-87, Cl. 427-245.000.
Amick, David R.; Hann, William M.; and Natoli, John, to Rohm and Haas Co. Method of stabilizing aqueous systems. 4,711,725, 12-8-87, Cl. 210-701.000.
Amidon, Gordon L.; Higuchi, Takeru; and Dressman, Jennifer B., to Merck & Co., Inc. Lipid osmotic pump. 4,685,918, 8-11-87, Cl. 604-892.000.
Amiel, Abraham J.: *See—*
    Magaritz, Mordeckai; Goldenberg, Lior; Mandel, Shmuel; and Amiel, Abraham J., 4,647,259, Cl. 405-270.000.
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    DesBois, Michel; and Amiet, Louis, 4,701,551, Cl. 560-226.000.
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    Beuneche, Daniel; Mauvieux, Christian; and Amiet, Pierre, 4,681,730, Cl. 376-252.000.
Amigo Sales, Inc.: *See—*
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    Torck, Bernard; Amigues, Pierre; Glaize, Yves; Grangette, Henri; Laurent, Jean; and Fitoussi, Fred, 4,647,703, Cl. 568-697.000.
    Torck, Bernard; Amigues, Pierre; Weill, Jerome; Gueguen, Claude; Llinares, Michel; and Bourgoguon, Henri, 4,664,675, Cl. 44-60.000.
Amikura, Takashi; and Fujiwara, Akihiro, to Canon Kabushiki Kaisha. Automatic focus adjusting device. 4,673,806, 6-16-87, Cl. 250-201.000.
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    Ohsaka, Yohnosuke; Amimoto, Yoshio; and Negishi, Yoshio, 4,683,289, Cl. 528-402.000.
Amin, Mohammad B.: *See—*
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Amingual, Daniel; and Felix, Pierre, to Commissariat a l'Energie Atomique. Matrix device for the detection of light radiation with individual cold screens integrated into a substrate and its production process. 4,675,525, 6-23-87, Cl. 250-338.000.
Amino, Hiroyuki, to Amino Iron Works Co., Ltd. 180 degree inverting machine. 4,715,775, 12-29-87, Cl. 414-758.000.
Amino Iron Works Co., Ltd.: *See—*
    Amino, Hiroyuki, 4,715,775, Cl. 414-758.000.
Amirikian, Arsham, to Amirikian, Arsham. Stabilizer for floating and submersible structures. 4,708,081, 11-24-87, Cl. 114-230.000.
Amirsakis, Charles J., to Morton Thiokol, Inc. Electron beam curable polyuethane polymers for magnetic tape applications. 4,695,604, 9-22-87, Cl. 525-28.000.
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    Chand, Sujeet; Amis, Jack B.; Cartwright, William; Sadre, Ahmad; and Kossey, Robert M., 4,663,726, Cl. 364-513.000.
AMISTAR Corporation: *See—*
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Amit, Meir, to Amiad. Cyclonic separator. 4,710,284, 12-1-87, Cl. 209-17.000.
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    Kubota, Mitsuru; and Amita, Kozo, 4,682,170, Cl. 340-928.000.
Amitai, Gabriel; Balderman, David; Bruckstein-Davidovici, Rachel; and Spiegelstein, Michael. Bisquaternary antidotes. 4,675,326, 6-23-87, Cl. 514-304.000.
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Amith, Avraham: *See—*
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Amjad, Zahid; and Masler, William F., III, to B. F. Goodrich Company, The. Stabilization of iron in aqueous systems. 4,707,271, 11-17-87, Cl. 210-701.000.
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Ammann, Ernst. Device for bridging the joint between two parts of a roof and method for testing its tightness. 4,635,426, 1-13-87, Cl. 52-573.000.
Ammar, Jesse I. Support and clamping assembly. 4,643,458, 2-17-87, Cl. 285-62.000.
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    Contoyonis, Peter, 4,643,055, Cl. 82-30.000.
    Contoyonis, Peter, 4,656,899, Cl. 82-34.00R.
    Mountz, Craig E., 4,711,325, Cl. 188-32.000.
Ammen, Mark E.; and Hansen, William D. Sail system. 4,704,979, 11-10-87, Cl. 114-98.000.
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    Graf, Hermann; Rentzea, Costin; Richarz, Winfried; Froehlich, Helmut; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, 4,663,324, Cl. 514-247.000.
    Janssen, Bernd; Meyer, Norbert; Pommer, Ernst-Heinrich; Ammermann, Eberhard; Kohlmann, Friedrich-Wilhelm; Wesenberg, Walter; and Heberle, Wolfgang, 4,670,454, Cl. 514-383.000.
    Rentzea, Costin; Sauter, Hubert; Karbach, Stefan; Will, Wolfgang; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, 4,678,798, Cl. 514-383.000.
    Rentzea, Costin; Buschmann, Ernst; Himmele, Walter; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, 4,708,960, Cl. 514-383.000.
    Roeser, Karl; Lauer, Manfred; Sauter, Hubert; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, 4,639,447, Cl. 514-222.000.
    Schirmer, Ulrich; Karbach, Stefan; Pommer, Ernst-Heinrich; Ammermann, Eberhard; Steglich, Wolfgang; Schwalge, Barbara A. M.; and Anke, Timm, 4,709,078, Cl. 560-060.000.
    Schulz, Guenter; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, 4,678,504, Cl. 71-94.000.
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Ammitzboll, Knud, to Siemens Hearing Instruments, Inc. Resonant peak control. 4,689,818, 8-25-87, Cl. 381-68.000.
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    Zardi, Umberto, 4,670,588, Cl. 564-72.000.
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    Arzoumanidis, Gregory G.; Lee, Sam S.; Wolff, Thomas E.; and Ornellas, Linda, 4,657,883, Cl. 502-127.000.
    Beaton, William I.; Hensley, Albert L.; and Evans, April J., 4,657,665, Cl. 208-216.00R.
    Beaton, William I.; Hensley, Albert L.; and Evans, April J., 4,707,466, Cl. 502-313.000.
    Beynet, Pierre A.; and von Aschwege, J. Thomas, 4,708,525, Cl. 405-195.000.
    Bourg, Robert A., 4,705,111, Cl. 166-277.000.
    Carlson, Ronald E.; Ely, Stephen R.; Feinstein, Allen I.; and Ghanayem, Ibrahim, 4,677,240, Cl. 585-488.000.
    Chang, Yuehsiung; and Satek, Larry C., 4,664,824, Cl. 252-42.700.
    Chang, Yuehsiung, 4,680,098, Cl. 204-182.400.
    Chiu, Hin; and Hall, Johnce E., 4,701,076, Cl. 405-224.000.
    Clendinning, Robert A.; and Kwiatkowski, George T., 4,687,833, Cl. 528-125.000.
    Clendinning, Robert A.; and Maresca, Louis M., 4,716,211, Cl. 528-126.000.
    Crowley, Michael S., 4,680,908, Cl. 52-378.000.
    De Simone, Richard E., 4,665,254, Cl. 585-467.000.
    De Simone, Richard E.; and Haddad, Muin S., 4,670,616, Cl. 585-467.000.
    DeSimone, Richard E.; and Haddad, Muin S., 4,670,617, Cl. 585-467.000.
    Didchenko, Rostislav; and Lewis, Irwin C., 4,645,584, Cl. 208-40.000.
    Domeier, Linda A., 4,654,407, Cl. 526-262.000.
    Domeier, Linda A.; and Gardner, Hugh C., 4,691,025, Cl. 548-521.000.
    Edwards, Robert C., 4,701,433, Cl. 502-209.000.

Erickson, Michael E.; Plichta, Roman T.; and Rajanayakam, Daniel F., 4,662,669, Cl. 294-68.270.
Evans, April J.; and Hensley, Albert L., 4,657,664, Cl. 208-211.000.
Ferguson, Noble B., 4,645,005, Cl. 166-278.000.
Fleming, Bruce A., 4,663,020, Cl. 208-65.000.
Forgac, John M.; and Hoekstra, George R., 4,637,464, Cl. 166-261.000.
Gard, Michael F.; Warmack, Ralph E.; Lee, Kyong H.; and Maschhoff, Robert H., 4,692,909, Cl. 367-45.000.
Gash, Bruce W.; Arri, Luis E.; Hunt, Elton B., Jr.; and Parrish, David R., 4,648,450, Cl. 166-259.000.
Gupta, Surendra P., 4,662,445, Cl. 166-274.000.
Harrington, John P., 4,635,728, Cl. 166-341.000.
Harrington, John P., 4,706,757, Cl. 166-349.000.
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Harris, James E.; Berger, Abe; Chopdekar, Vilas M.; Matzner, Markus; and Spanswick, James, 4,713,438, Cl. 528-337.000.
Hartsing, Tyler F., Jr.; and Sauers, Marvin E., 4,649,176, Cl. 525-67.000.
Hinch, Henry H.; Boyne, Gail E.; Daniels, David L.; and Kullmann, Eugene V., 4,710,946, Cl. 378-62.000.
Hoofnagle, Rodger A.; and Young, William S., 4,673,500, Cl. 210-307.000.
Hunt, Mack W.; and Kennedy, Steven, 4,664,822, Cl. 252-32.70E.
Jageler, Alfred H., 4,635,717, Cl. 166-250.000.
James, David E.; Nowicki, Neal R.; and McCoy, Robert W., 4,652,674, Cl. 562-414.000.
Jezl, James L.; Blanks, Robert F.; Stasi, Michael A.; and Puskas, Imre, 4,654,458, Cl. 585-500.000.
Karayannis, Nicholas M.; Skryantz, John S.; and Johnson, Bryce V., 4,657,882, Cl. 502-115.000.
Kawakami, James H.; Harris, James E.; Maresca, Louis M.; Robeson, Lloyd M.; and Cotter, Robert J., 4,705,822, Cl. 524-425.000.
Kelsey, Donald R., 4,638,044, Cl. 528-125.000.
Kouba, Jay K.; and Snyder, Robert B., 4,656,297, Cl. 549-508.000.
Lambousy, George G.; Reaves, Benjamin H.; and Nelson, William E., 4,715,996, Cl. 261-114.200.
Levan, Chris D., 4,686,123, Cl. 427-424.000.
Maresca, Louis M., 4,710,562, Cl. 528-125.000.
Matzner, Markus; and Papuga, Donald M., 4,642,327, Cl. 525-434.000.
Matzner, Markus; and Papuga, Donald M., 4,668,744, Cl. 525-397.000.
McMahon, Patrick E., 4,697,010, Cl. 540-536.000.
Melville, Judith B.; and De Simone, Richard E., 4,652,691, Cl. 585-467.000.
Mossman, Allen B., 4,638,098, Cl. 568-630.000.
Mossman, Allen B., 4,675,454, Cl. 568-630.000.
Mossman, Allen B., 4,675,455, Cl. 568-630.000.
Mossman, Allen B., 4,675,456, Cl. 568-630.000.
Mount, Houston B., II, 4,649,550, Cl. 375-37.000.
Mount, Houston B., II, 4,685,294, Cl. 60-329.000.
Nevitt, Thomas D., 4,677,085, Cl. 502-26.000.
Nimry, Tayseer S., 4,654,456, Cl. 585-477.000.
Nimry, Tayseer S.; and De Simone, Richard E., 4,673,767, Cl. 585-467.000.
Olson, Carl B.; Plichta, Roman T.; and Coyne, Daniel W., 4,661,265, Cl. 210-804.000.
Palm, John W., 4,643,888, Cl. 423-574.00R.
Peck, Lawrence B., 4,699,709, Cl. 208-390.000.
Peters, Albert W.; and MacCallum, Gregory J., 4,708,787, Cl. 208-130.000.
Pillsbury, Dale G., 4,700,011, Cl. 568-585.000.
Puri, Rajen, 4,662,439, Cl. 166-245.000.
Puri, Rajen; Arri, Luis E.; and Gash, Bruce W., 4,662,443, Cl. 166-261.000.
Qureshi, Shahid P., 4,686,250, Cl. 523-440.000.
Robeson, Lloyd M.; Harris, James E.; Maresca, Louis M.; and Kawakami, James H., 4,665,122, Cl. 524-504.000.
Robeson, Lloyd M., 4,684,699, Cl. 525-471.000.
Robeson, Lloyd M.; Harris, James E.; Kawakami, James H.; and Maresca, Louis M., 4,698,390, Cl. 525-133.000.
Schulz, David A.; and Nelson, Loren C., 4,686,096, Cl. 423-447.100.
Schwartz, Michael M.; and Stark, Leonard E., 4,675,438, Cl. 562-416.000.
Sheffield, Miller; Metcalfe, Robert S.; Calvin, James W.; and Chaback, Joseph J., 4,635,721, Cl. 166-268.000.
Sikkenga, David L., 4,642,301, Cl. 502-231.000.
Smith, David J., 4,713,151, Cl. 204-58.500.
Smith, Michael B., 4,678,037, Cl. 166-299.000.
Sondergeld, Carl H.; Frisillo, Albert L.; and Norris, Janice O., 4,692,910, Cl. 367-75.000.
Song, Yoon S.; and McCandless, Henry A., 4,663,392, Cl. 525-155.000.
Standley, Robert W., 4,673,589, Cl. 427-41.000.
Stauffer, Richard D., 4,710,308, Cl. 252-42.700.
Taggart, Davis L.; and Heffern, Edward W., 4,690,217, Cl. 166-274.000.
Thrash, Robert J.; and Connolly, John F., 4,643,958, Cl. 429-105.000.
Tolpin, Thomas W.; and Kretchmer, Richard A., 4,692,318, Cl. 423-239.000.
Unmuth, Eugene E.; and Fleming, Bruce A., 4,664,781, Cl. 208-138.000.
Unmuth, Eugene E.; and Fleming, Bruce A., 4,703,031, Cl. 502-339.000.
Walker, Robert H.; Palmer, David A.; Salvatore, Donna M.; and Bernier, Edward J., 4,670,473, Cl. 518-706.000.
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Warren, Tommy M.; Winters, Warren J.; and Brett, J. Ford, 4,705,117, Cl. 175-65.000.
Winters, Warren J.; Brett, J. Ford; and Warren, Tommy M., 4,655,303, Cl. 175-329.000.
Young, Grant A., 4,711,720, Cl. 210-512.200.

Amoils, Selig P. Methods and apparatus for use in ocular surgery. 4,660,947, 4-28-87, Cl. 351-212.000.

Amon, Albert: *See—*
Mehl, Wolfgang; and Amon, Albert, 4,636,223, Cl. 8-471.000.
Mehl, Wolfgang; and Amon, Albert, 4,664,670, Cl. 8-470.000.

Amon, Leopold: *See—*
Enkner, Bernhard; Amon, Leopold; Kubelbock, Alfred; Trimmel, Wolfgang; Nalepka, Paul; Schropp, Leopold; Schwaighofer, Helmut; Pum, Reinhard; Traxler, Manfred; and Tasch, Franz, 4,678,168, Cl. 266-196.000.
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Amor, William H.; and Levar, Robert E., to Picker International, Inc. Computed tomography brake method and apparatus. 4,658,408, 4-14-87, Cl. 378-4.000.

Amormino, Giuseppe. Precast reinforced concrete wall panels and method of erecting same. 4,669,240, 6-2-87, Cl. 52-236.600.

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Amos, Dennis R.: *See—*
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Amos, Leonard J.; and Heron, John T., to United Kingdom of Great Britain and Northern Ireland, The Secretary of State for Defence in Her Britannic Majesty's Government of the. Projectiles. 4,658,728, 4-21-87, Cl. 102-501.000.

Amos, Lynn G.; Saikkonen, Stuart L.; and Young, Donald R., to Corning Glass Works. Method and apparatus for recoating optical waveguide fibers. 4,662,307, 5-5-87, Cl. 118-50.100.

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Amour, Glenda K. Nail form for use in applying nail extension material. 4,643,208, 2-17-87, Cl. 132-88.500.

AMP Incorporated: *See—*
Adlon, Daniel T.; Bianchi, Edward A.; College, Neil F.; and Reuss, George D., 4,650,391, Cl. 414-222.000.
Aiken, Hugh H., Jr.; and Langford, Gordon B., 4,694,126, Cl. 200-5.00A.
Althouse, Rickie M.; Beamenderfer, Robert E.; Durbin, Roger; Hollyday, Robert D.; and Kling, John P., 4,641,907, Cl. 339-147.00R.
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Andrews, Howard W., Jr., 4,655,537, Cl. 339-221.00R.
Andrews, Howard W., Jr.; Pickles, Charles S.; and Taylor, Attalee S., 4,715,820, Cl. 439-59.000.
Aoyama, Koiji; and Noguchi, Masaro, 4,710,135, Cl. 439-354.000.
Arbogast, William C., Jr.; Boutcher, Andrew G., Jr.; Folk, Kenneth F.; Richart, Stephen D.; and Ross, Milton D., 4,649,636, Cl. 29-861.000.
Arbogast, William C., Jr., 4,692,121, Cl. 439-874.000.
Ashman, John J.; and Caron, Bernard G., 4,648,688, Cl. 350-96.200.

Asick, John C.; Douty, George H.; and Staron, James S., 4,693,528, Cl. 439-83.000.
Assini, John E.; and Kissinger, Paula A., 4,679,883, Cl. 439-607.000.
Atherton, Charles G.; and Swartz, John C., 4,649,304, Cl. 310-71.000.
Atherton, Charles G.; and Swartz, John C., 4,656,378, Cl. 310-71.000.
Bakermans, Johannes C. W., 4,646,392, Cl. 24-16.0PB.
Bakermans, Johannes C. W., 4,698,892, Cl. 29-452.000.
Barkus, Lee A., 4,637,677, Cl. 339-274.000.
Barkus, Lee A.; and Sucheski, Matthew M., 4,671,584, Cl. 439-78.000.
Beck, Hoy S., Jr.; Leitzel, Larry L.; and Shoemaker, John R., 4,655,522, Cl. 339-32.00M.
Bennett, Glenn E.; Look, Raymond J.; Dola, Frank P.; Thurman, Richard E.; and Siwinski, Paul P., 4,680,423, Cl. 174-36.000.
Bhatt, Vipul, 4,681,397, Cl. 350-96.200.
Birch, Norman R.; Pauza, William V.; and Sheesley, Wilmer L., 4,687,446, Cl. 439-553.000.
Black, Allen C., 4,702,429, Cl. 242-71.800.
Blair, Bryce W.; and Hall, Lawrence A., 4,647,130, Cl. 339-64.00M.
Blair, Bryce W.; and Hall, Lawrence A., 4,664,456, Cl. 339-14.00P.
Bobb, Clifford F.; and Cobaugh, Robert F., 4,636,021, Cl. 339-75.0MP.
Bocchicchio, Keith A.; Jackson, Mark F.; Hall, David L.; and Paukovits, Edward J., Jr., 4,649,633, Cl. 29-739.000.
Bowen, Terry P., 4,665,280, Cl. 174-71.00R.
Bowen, Terry P.; and Glover, Douglas W., 4,676,588, Cl. 350-96.210.
Bowen, Terry P.; Glover, Douglas W.; Hoover, Charles D.; Huber, John H.; and Schaffer, Ronald R., 4,678,264, Cl. 350-96.200.
Bricker, Michael W.; and Thompson, Donald W., 4,649,616, Cl. 29-406.000.
Bright, Edward J., 4,679,318, Cl. 79-840.000.
Bright, Edward J.; and Sinisi, David B., 4,716,494, Cl. 361-386.000.
Brutosky, Scott A., 4,671,407, Cl. 206-332.000.
Buddwalk, John A., 4,667,512, Cl. 73-161.000.
Burgess, Christopher N.; Corman, Ned E.; Barkus, Lee A.; Kandybowski, Steven J.; and Sucheski, Matthew M., 4,653,826, Cl. 339-64.00M.
Burgit, Richard A.; Davis, Newton G.; Goyert, Josita M.; Johnson, Keith, Jr.; Long, Robert A.; and Stachura, Joseph F., 4,633,570, Cl. 29-564.400.
Capp, Randolph E., 4,684,200, Cl. 439-387.000.
Caron, Bernard G.; Hoffer, John C.; and Rupert, Martin R., 4,666,240, Cl. 350-96.200.
Caron, Bernard G., 4,666,241, Cl. 350-96.210.
Casey, Daniel T., 4,682,400, Cl. 29-564.700.
Cattin, Bernard W.; and Grabbe, Dimitry, 4,645,296, Cl. 350-96.210.
Cembruch, Bronislau J.; and Werner, Walter M., 4,693,688, Cl. 439-877.000.
Chang, Paul S.; and Dowling, Edward C., 4,682,168, Cl. 340-825.650.
Cohen, Thomas S.; Laudig, Ronald C.; and Smith, Donald L., 4,688,878, Cl. 439-585.000.
Coldren, Daniel R., 4,643,507, Cl. 339-97.00P.
Coldren, Daniel R., 4,650,925, Cl. 174-135.000.
Coldren, Daniel R., 4,657,331, Cl. 339-125.00R.
Coldren, Daniel R., 4,685,754, Cl. 439-270.000.
Coldren, Daniel R., 4,691,981, Cl. 439-816.000.
Coller, James R.; Coon, Paul A.; and Goodman, Joseph R., 4,637,670, Cl. 339-46.000.
Coller, James R.; and Macioce, Lawrence, 4,662,694, Cl. 339-275.00T.
Coller, James R.; and Goodman, Joseph R., 4,696,525, Cl. 439-69.000.
Corman, Ned E., 4,714,441, Cl. 439-842.000.
Corrao, Mark; and Shaffer, David T., 4,680,568, Cl. 337-186.000.
Cosmos, Pete; Scully, Michael J.; and Stephenson, Brian D., 4,687,263, Cl. 439-108.000.
Cozzens, Brian E.; Hopkins, John R.; and Thakrar, Anil C., 4,645,285, Cl. 339-96.000.
Croman, Stanley W. T.; Jordan, Janet M.; and Paukovits, Edward J., Jr., 4,690,266, Cl. 198-388.000.
Darstein, Schuyler R.; and Wedell, David A., 4,647,323, Cl. 156-50.000.
Davis, Wayne S.; Defibaugh, George R.; and Fortuna, Jon A., 4,648,665, Cl. 339-14.00R.
Denlinger, Keith R.; and Shuey, John R., 4,676,575, Cl. 439-271.000.
Denlinger, Keith R.; Rudy, William J., Jr.; and Stahl, Daniel E., 4,685,886, Cl. 439-55.000.
Dery, Ronald A.; and Jones, Warren C., 4,640,981, Cl. 174-88.00R.
Dery, Ronald A.; and Jones, Warren C., 4,642,421, Cl. 174-88.00R.
Dery, Ronald A.; Gentry, William G.; Jones, Warren C.; May, Clifton C., Jr.; and Wentink, Steven G., 4,659,872, Cl. 174-117.00A.
Dola, Frank P.; Siwinski, Paul P.; and Zwieg, Grover A., 4,640,569, Cl. 339-143.00R.
Douty, George H.; and Landis, John M., 4,678,121, Cl. 439-610.000.
Dubbs, Jack F.; and Hanyen, Clyde K., 4,686,766, Cl. 29-883.000.
Durbin, Roger W.; Kling, John P.; and Schroeder, James L., III, 4,652,842, Cl. 333-182.000.
D'Urso, Gianfranco; and Teagno, Vladimiro, 4,699,441, Cl. 439-397.000.
Egner, Walter A.; and Collins, Daniel R., 4,684,161, Cl. 294-1.100.
Evans, William R.; and Sinisi, David B., 4,655,519, Cl. 339-17.0CF.
Farrar, John C.; Ney, Reuben E.; and Schroeder, James L., III, 4,679,013, Cl. 333-182.000.
Farrar, John C.; Schroeder, James L., III; and Yeager, Patrick F., 4,699,590, Cl. 439-95.000.
Feher, Michael S.; Weidler, Charles H.; and Wise, James H., 4,684,191, Cl. 439-246.000.
Feldman, Steven; and Jones, Marvin H., 4,654,470, Cl. 174-50.000.
Feldman, Steven; and Tennant, Robert J., 4,695,106, Cl. 439-83.000.
Fickes, Edward L.; and Kautz, Jon F., 4,670,978, Cl. 29-741.000.
Fisher, Robert L., Jr., 4,697,859, Cl. 439-246.000.
Fisher, Robert L., Jr., 4,708,666, Cl. 439-580.000.
Forney, Edgar W., Jr.; and Hogendobler, Richard S., 4,650,271, Cl. 339-177.00R.
Forney, Edgar W., Jr.; and Hogendobler, Richard S., 4,662,703, Cl. 339-177.00R.
Forney, Edgar W., Jr.; and Hogendobler, Richard S., 4,712,296, Cl. 29-828.000.
Furman, Lev B., 4,656,724, Cl. 29-566.000.
Furman, Lev B., 4,715,827, Cl. 439-465.000.
Galloway, Michael D.; Rose, William H.; and Shaffer, David T., 4,675,989, Cl. 29-622.000.
Galloway, Michael D.; and Shaffer, David T., 4,689,597, Cl. 337-186.000.
Galloway, Michael D.; Rose, William H.; and Shaffer, David T., 4,697,863, Cl. 439-544.000.
Gentry, William G., 4,644,092, Cl. 174-36.000.
Gilliam, Kenneth R.; Look, Raymond J.; and Thurman, Richard E., 4,663,098, Cl. 264-104.000.
Gingerich, David J.; Granitz, Richard F.; Rose, William H.; and Shaffer, David T., 4,673,837, Cl. 310-239.000.
Good, Robert S.; Scully, Michael J.; and Zelko, William E., 4,701,139, Cl. 439-497.000.
Gordon, Eugene I., 4,673,270, Cl. 350-96.150.
Grabbe, Dimitry; and Korsunsky, Iosif, 4,687,278, Cl. 439-842.000.
Grabbe, Dimitry; Korsunsky, Iosif; Klunk, Thomas M.; and DiOrazio, Joseph S., 4,695,111, Cl. 439-266.000.
Grabbe, Dimitry G., 4,637,135, Cl. 29-832.000.
Grabbe, Dimitry G.; and Korsunsky, Iosif, 4,642,872, Cl. 29-564.600.
Grabbe, Dimitry G., 4,642,889, Cl. 29-840.000.
Grabbe, Dimitry G.; and Korsunsky, Iosif, 4,645,279, Cl. 339-17.0CF.
Grabbe, Dimitry G.; and Lambert, Lahman D., II, 4,653,840, Cl. 339-177.00R.
Grabbe, Dimitry G.; and Korsunsky, Iosif, 4,679,319, Cl. 29-843.000.
Grabbe, Dimitry G.; and Korsunsky, Iosif, 4,684,184, Cl. 439-64.000.
Grabbe, Dimitry G.; and Korsunsky, Iosif, 4,699,593, Cl. 439-71.000.
Grabbe, Dimitry G.; and Korsunsky, Iosif, 4,703,920, Cl. 269-37.000.
Groft, James L., 4,655,528, Cl. 339-99.00R.
Gutter, David H.; and Shatto, Walter C., Jr., 4,696,908, Cl. 439-98.000.
Hall, Lawrence A.; and Stahl, Daniel E., 4,634,208, Cl. 339-143.00R.
Hall, Leslie C., Jr.; Meyer, David L.; and Wolfe, Brian A., 4,682,391, Cl. 29-33.00M.
Hamsher, Wilbur A., Jr.; and Lockard, Joseph L., 4,655,515, Cl. 339-14.00R.
Hamsher, Wilbur A., Jr.; and Long, William B., 4,690,647, Cl. 439-92.000.
Hayes, Earl J.; Cooper, Ralph M.; Denlinger, Keith R.; and Shuey, John R., 4,697,864, Cl. 439-444.000.
Hayes, Earl J.; and Cooper, Ralph M., 4,705,339, Cl. 439-277.000.
Header, Stephen; Moore, Jerry L.; and Taylor, Attalee S., 4,687,267, Cl. 439-62.000.
Hillbish, Warren C., 4,702,707, Cl. 439-80.000.
Himes, John L., Jr.; McCleerey, Earl W.; and Reynolds, Charles E., 4,708,412, Cl. 439-95.000.
Hoffer, John C.; Caron, Bernard G.; and Rupert, Martin R., 4,685,764, Cl. 350-96.200.
Hoffman, Norman E.; and Oberman, Carl D., 4,686,333, Cl. 200-6.00B.
Hollyday, Robert D.; and Yeager, Patrick F., 4,643,509, Cl. 339-147.00R.
Hollyday, Robert D.; and Yeager, Patrick F., 4,674,809, Cl. 339-92.000.
Hollyday, Robert D.; and Yeager, Patrick F., 4,690,479, Cl. 439-97.000.
Huber, John H., 4,679,895, Cl. 350-96.200.
Hughes, Richard L.; Turney, Anthony W.; and Look, Raymond J., 4,642,480, Cl. 307-147.000.
Hunt, Alexander, III; and Smith, Dennis E., 4,655,525, Cl. 339-63.00M.
Isohata, Shigeru, 4,699,444, Cl. 439-839.000.
Jackson, Charles L., 4,679,887, Cl. 439-849.000.
Jackson, Mark F.; Lawruk, Stephen P.; Schlegel, Dallas E.; and Spong, Richard V., 4,715,112, Cl. 29-739.000.
Johnescu, Douglas M.; and Johnson, Erlon F., 4,659,156, Cl. 339-17.00C.
Kamono, Takashi; and Otsu, Akihiko, 4,657,324, Cl. 339-17.0CF.
Kandybowski, Steven J., 4,647,124, Cl. 339-17.0CF.

- Kandybowski, Steven J.; and Mixon, James L., Jr., 4,647,129, Cl. 339-64.00M.
- Keller, Joseph R., 4,654,580, Cl. 324-51.000.
- Keller, Joseph R.; and Longenecker, Bruce C., 4,696,708, Cl. 156-64.000.
- Kevern, James D.; Stape, William J.; and Weber, Robert N., 4,715,675, Cl. 350-96.200.
- Klein, David A., 4,708,662, Cl. 439-353.000.
- Kobler, Robert J., 4,637,674, Cl. 339-94.00M.
- Kobler, Robert J., 4,643,506, Cl. 339-94.00M.
- Kobler, Robert J., 4,648,672, Cl. 339-94.00M.
- Kobler, Robert J., 4,713,021, Cl. 439-272.000.
- Koblitz, Francis F.; and Snyder, Lynn K., 4,714,801, Cl. 174-88.00R.
- Korsunsky, Iosif, 4,710,134, Cl. 439-264.000.
- Kunkle, John P.; and McClune, Donald W., 4,682,829, Cl. 439-83.000.
- Lane, David, 4,662,701, Cl. 339-176.00M.
- Leiby, Douglas J., 4,667,398, Cl. 29-749.000.
- Litehizer, Melvin P., Jr., 4,642,874, Cl. 29-566.400.
- Locati, Ronald P., 4,685,761, Cl. 439-843.000.
- Lockard, Joseph L., 4,681,382, Cl. 439-92.000.
- Lockard, Joseph L., 4,682,840, Cl. 439-874.000.
- Lockard, Joseph L., 4,697,053, Cl. 200-68.200.
- Long, William B.; Over, Gary L.; Shaffer, Howard R.; and Shuey, John R., 4,684,192, Cl. 439-374.000.
- Loose, Winfield W., 4,637,675, Cl. 339-97.00R.
- Loose, Winfield W., 4,705,340, Cl. 439-395.000.
- Lovell, Gregory R., 4,648,666, Cl. 339-17.0CF.
- Lundergan, Robert G.; and McClune, Donald W., 4,640,567, Cl. 339-94.00M.
- Maack, Werner; Gerst, Michael; and Liedloff, Manfred, 4,651,413, Cl. 29-759.000.
- Marks, Richard L.; and Parker, William T., 4,648,669, Cl. 339-75.00M.
- Marks, Richard L.; Scheingold, William S.; and Smith, Ronald M., 4,657,325, Cl. 339-17.0CF.
- Marzili, Joseph C., 4,668,039, Cl. 339-99.00R.
- Marzili, Joseph C.; and Stephenson, Brian D., 4,691,977, Cl. 439-438.000.
- Matsusaca, Yoshihide, 4,640,566, Cl. 339-91.00R.
- Morningstar, Leroy J.; and Blichasz, Charles S., 4,659,166, Cl. 339-177.00R.
- Mueller, Arthur L., 4,639,063, Cl. 339-75.00M.
- Myers, Earl C.; Shirk, Michael E.; and Waters, Mark H., 4,689,723, Cl. 361-424.000.
- Ney, Reuben E.; and Walters, Bryon L., 4,653,838, Cl. 339-147.00R.
- Ney, Reuben E.; Pass, Raymond V.; and Yeager, Patrick F., 4,695,105, Cl. 439-95.000.
- Ney, Reuben E.; and Walters, Bryon L., 4,707,045, Cl. 439-588.000.
- Olsson, Billy E., 4,636,023, Cl. 339-103.00M.
- Olsson, Billy E., 4,641,906, Cl. 339-143.00R.
- Olsson, Billy E., 4,645,287, Cl. 339-125.00R.
- Olsson, Billy E., 4,653,825, Cl. 339-48.000.
- Olsson, Billy E., 4,662,698, Cl. 339-97.00R.
- Olsson, Billy E., 4,671,599, Cl. 439-188.000.
- Olsson, Billy E., 4,694,129, Cl. 200-68.200.
- Owen, Leonard J., 4,669,808, Cl. 439-858.000.
- Owens, Steven P., 4,664,462, Cl. 339-65.000.
- Pass, Raymond V.; Schroeder, James L., III; and Ney, Reuben E., 4,648,681, Cl. 339-147.00R.
- Peele, Wayne L., 4,653,836, Cl. 339-143.00R.
- Porta, Gary D.; and Shutter, Terry L., 4,699,445, Cl. 439-698.000.
- Preputnick, George, 4,715,829, Cl. 439-660.000.
- Regla, Juan; and Lazaro, Jose, 4,679,876, Cl. 439-426.000.
- Reynolds, Charles E.; and Whiteman, Robert N., 4,660,911, Cl. 339-17.0LC.
- Roosdrop, Joannes W. M., 4,650,273, Cl. 339-247.000.
- Rudy, William J., Jr.; and Wycheck, Thomas H., 4,684,187, Cl. 439-600.000.
- Ryll, Jurgen H.; and Ullrich, Rainer W., 4,698,030, Cl. 439-752.000.
- Schaffer, Ronald R., 4,669,802, Cl. 439-535.000.
- Schriver, Harold S., Jr., 4,681,691, Cl. 252-12.000.
- Schubert, Paul C.; and Thakrar, Anil C., 4,664,461, Cl. 339-59.00M.
- Shaffer, David T.; and Walker, Philip J., 4,655,516, Cl. 339-17.0CF.
- Shaffer, Howard R., 4,655,526, Cl. 339-74.00R.
- Sheesley, Wilmer L.; and Pauza, William V., 4,666,231, Cl. 339-177.00R.
- Shoemaker, John R., 4,634,195, Cl. 339-17.00F.
- Shoemaker, John R., 4,640,562, Cl. 339-17.00F.
- Shuey, John R., 4,687,264, Cl. 439-92.000.
- Sinisi, David B., 4,648,668, Cl. 339-74.00R.
- Smith, Mark L., 4,687,555, Cl. 204-26.000.
- Smith, Mark L.; and Wagner, Richard M., 4,687,562, Cl. 204-206.000.
- Smith, Mark L.; and Wagner, Richard M., 4,690,747, Cl. 204-206.000.
- Somer, Gerald L., 4,682,344, Cl. 375-62.000.
- Spotts, Kenneth L., 4,636,126, Cl. 414-126.000.
- Stape, William J.; and Weber, Robert N., 4,687,291, Cl. 350-96.210.
- Stillie, Donald G., 4,636,018, Cl. 339-17.00M.
- Stillie, Donald G., 4,693,529, Cl. 439-67.000.
- Stillie, Donald G.; and Zakary, Paul D., 4,693,530, Cl. 439-67.000.
- Szczesny, David S.; and Hawk, Gary W., 4,653,828, Cl. 339-91.00R.
- Szczesny, David S.; and Root, John A., 4,693,533, Cl. 439-350.000.
- ten Berge, Eduardus F. A., 4,662,710, Cl. 350-96.100.
- Ten Berge, Eduardus F. A., 4,669,820, Cl. 350-96.200.
- Tighe, Charles L., Jr., 4,660,918, Cl. 339-97.00P.
- Tighe, Charles L., Jr., 4,693,539, Cl. 439-465.000.
- Walters, Cecil K., 4,709,253, Cl. 357-68.000.
- Warner, Gary N., 4,652,082, Cl. 350-96.200.
- Wasserlein, Henry G., 4,695,110, Cl. 439-289.000.
- Waters, Mark H.; and Whiteman, Robert N., Jr., 4,709,973, C 439-78.000.
- Weber, Robert N.; and Stape, William J., 4,684,211, Cl. 350-96.2
- Williams, Tom R., 4,679,888, Cl. 439-883.000.
- Yohn, Brent D., 4,701,004, Cl. 439-871.000.
- Young, Walter M., 4,645,732, Cl. 430-314.000.

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- Pasquini, Henri, 4,681,340, Cl. 280-642.000.

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- Lasota, Robert E.; and Haibach, William, 4,655,256, Cl. 1 96.00T.

Ampe, Frank: *See*—
- Rosseel, Rik; Decock, Bernard; Wyffels, Marc; and Ampe, Fran 4,673,004, Cl. 139-435.000.

Ampep, plc: *See*—
- Harrison, Michael B., 4,666,318, Cl. 384-625.000.

Ampex Corporation: *See*—
- Baranski, Antoni S., 4,685,016, Cl. 360-132.000.
- Beaudier, Daniel A., 4,695,876, Cl. 358-31.000.
- Didriksen, Neal A., 4,635,878, Cl. 242-198.000.
- Fair, Kenneth E.; and Campbell, Charles M., 4,715,558, C 242-199.000.
- Flora, Jay L.; and Haycock, David A., 4,663,544, Cl. 307-455.00
- Flora, Jay L.; and Haycock, David A., 4,675,905, Cl. 381-81.00
- Flora, Jay L., 4,694,343, Cl. 358-183.000.
- Flora, Jay L., 4,694,344, Cl. 358-183.000.
- Hutson, John, 4,713,832, Cl. 377-45.000.
- Izraelev, Valentin; and Scherlizin, Dimitri D., 4,654,735, C 360-104.000.
- Lee, Patrick S., 4,638,230, Cl. 318-632.000.
- Lemoine, Maurice G.; and Paslera, Leonard A., 4,651,232, C 360-9.100.
- Lilley, Martin A., 4,697,207, Cl. 358-17.000.
- Linke, George A., 4,649,450, Cl. 360-129.000.
- Linke, George A., 4,688,326, Cl. 29-603.000.
- Louth, Kenneth, 4,635,138, Cl. 360-10.300.
- Louth, Kenneth, 4,649,441, Cl. 360-71.000.
- Luke, Rylan D., 4,675,723, Cl. 358-19.000.
- Morrison, Eric F., 4,663,654, Cl. 358-33.000.
- Morrison, Eric F., 4,677,388, Cl. 328-150.000.
- O'Gwynn, David C., 4,689,706, Cl. 360-14.200.
- Oldershaw, Reginald W.; and Wagner, Steven D., 4,716,454, C 358-18.000.
- Oxley, Leslie J., 4,684,990, Cl. 358-183.000.
- Rea, William V., 4,645,561, Cl. 156-636.000.
- Rodal, David R., 4,672,474, Cl. 360-70.000.
- Ryan, Dennis M., 4,652,946, Cl. 360-85.000.
- Scott, Lawrence M.; and Rexroat, Gary D., 4,683,167, C 428-328.000.
- Smith, Terrance, 4,695,873, Cl. 358-13.000.
- Stadelmann, George A.; and Watney, John P., 4,675,760, C 360-77.000.
- Steele, Robert, 4,692,819, Cl. 360-72.100.
- Wagner, Steven D., 4,675,724, Cl. 358-19.000.
- Wagner, Steven D., 4,688,080, Cl. 358-31.000.
- Wagner, Steven D., 4,707,653, Cl. 324-78.00R.
- Williams, Marshall; and Rodal, David R., 4,679,098, Cl. 360-10.10
- Wilson, George A., 4,667,271, Cl. 361-391.000.

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Amphenol Corporation: *See*—
- Bellet, Richard J.; Broyer, Ephraim; Bekker, Alex Y.; and Lac Melvin A., 4,703,839, Cl. 264-85.000.
- Bouley, Jean C., 4,707,052, Cl. 439-844.000.
- Bricaud, Herve; and Bertho, Dominique, 4,701,829, C 361-386.000.
- Gallusser, David O.; and MacAvoy, David W., 4,703,987, C 439-595.000.
- Gliha, Edward R.; and Krantz, Leonard A., Jr., 4,707,048, C 439-620.000.
- Gliha, Edward R., 4,707,049, Cl. 439-620.000.
- Hutter, Harold G.; and Tarrant, Dennis E., 4,702,538, C 439-292.000.
- L'Henaff, Patrick; and Bricaud, Herve, 4,700,743, Cl. 137-560.00
- L'Henaff, Patrick; and Bricaud, Herve, 4,706,164, Cl. 361-382.00
- Margolin, Mark; and Grois, Igor, 4,705,352, Cl. 350-96.200.
- Margolin, Mark; Grois, Igor; and Moore, James E., 4,715,251, C 81-9.400.
- Mitchell, Brian, 4,697,861, Cl. 439-271.000.
- Pritchard, Philip N. W., 4,705,481, Cl. 439-417.000.
- Riches, Arthur J., 4,699,442, Cl. 439-412.000.
- White, Rowland S., 4,708,415, Cl. 439-633.000.

Ampon, Felix A.: *See*—
Tredwell, Gilman; Kraft, Kenneth N.; and Ampon, Felix A., 4,702,174, Cl. 104-172.200.

Ampower Technologies, Inc.: *See*—
Ciongoli, Bernard M., 4,692,878, Cl. 364-518.000.

Ampro Equipment, Inc.: *See*—
Woodard, David A., 4,665,655, Cl. 51-5.00R.

Ammulski, Robert S., to Procter & Gamble Company, The. Sulfite process for making pulp having a tactile softness from hardwood chips. 4,634,499, 1-6-87, Cl. 162-84.000.

Amrath, Hans, to TRW Ehrenreich GmbH & Co. KG. Device for attaching bellows to a cylindrical member. 4,639,159, 1-27-87, Cl. 403-53.000.

Ams, Felix; Bolg, Ulrich; and Wurster, Helmut, to Richard Wolf GmbH. Light projector having a controllable intensity of illumination. 4,688,087, 8-18-87, Cl. 358-100.000.

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Amsel, Klaus: *See*—
Moravek, Peter; Trebitz, Bernd; Weller, Albrecht; and Amsel, Klaus, 4,685,229, Cl. 38-84.000.

Amsler, Heinrich: *See*—
Schwyter, Anton; and Amsler, Heinrich, 4,657,118, Cl. 285-55.000.

AMSTED Industries Incorporated: *See*—
Altherr, Russell G., and Kaim, John W., 4,700,853, Cl. 213-50.000.
Ballun, John V.; and Gain, Lorand H., Jr., 4,702,275, Cl. 137-556.000.
Crokel, Francis M., 4,714,557, Cl. 210-769.000.
Foley, William L.; and Bauer, James H., 4,676,058, Cl. 57-218.000.
Gain, Lorand H., Jr., 4,653,531, Cl. 137-556.000.
Hood, Charles N., II, 4,715,290, Cl. 105-199.300.
Kaim, John W., 4,674,639, Cl. 213-61.000.
Moehling, Charles; and Henkel, James A., 4,637,319, Cl. 105-207.000.
Mulcahy, Harry W.; and Karbowniczek, Stanley, 4,674,412, Cl. 105-224.100.
Nelson, John J., 4,669,524, Cl. 164-137.000.
Sharp, Steve S.; Holstrom, John R.; Gain, Lorand H., Jr.; and Ballun, John V., 4,708,160, Cl. 137-368.000.
Sieradzki, Christopher; and Jeffreys, Lyman W., 4,679,447, Cl. 73-865.800.
Sieradzki, Christopher Z., 4,679,358, Cl. 51-165.720.
Willson, David H., 4,693,836, Cl. 210-791.000.
Wykoff, Richard H., 4,661,251, Cl. 210-396.000.
Wykoff, Richard H., 4,702,845, Cl. 210-784.000.

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Amstutz, Hermann; Kaufmann, Meinolph; Nehring, Jurgen; and Scheffler, Terry J., to BBC Brown, Boveri & Company, Limited. Process and apparatus for the production of an orientation layer on a plane surface of a plate, and liquid crystal substrate plate produced thereby. 4,705,359, 11-10-87, Cl. 350-341.000.

Amstutz, Stanford A.: *See*—
Haselton, E. Fletcher; Amstutz, Stanford A.; and Lenart, Joseph M., 4,703,478, Cl. 370-94.000.

Amstutz, Stanford R.; Eliscu, Mark; and Rao, Pamidimukkala M. V., to GTE Laboratories Incorporated. High-speed switching processor for a burst-switching communications system. 4,644,529, 2-17-87, Cl. 370-60.000.

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Amstutz, Stanford R.: *See*—
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Haselton, E. Fletcher; Amstutz, Stanford R.; and Lenart, Joseph M., 4,698,803, Cl. 370-60.000.
Haselton, E. Fletcher; and Amstutz, Stanford R., 4,698,841, Cl. 379-269.000.

Amtel Communications, Inc.: *See*—
Curtin, William J.; and Soto, Stephen, 4,634,811, Cl. 379-211.000.
Curtin, William J., 4,672,660, Cl. 379-88.000.
Curtin, William J.; Soto, Stephen; and Krueger, Steven, 4,701,950, Cl. 379-214.000.

Amtel, Inc.: *See*—
Kentosh, James M., 4,650,431, Cl. 441-5.000.
Kentosh, James M., 4,654,015, Cl. 441-5.000.
Pollack, Jack, 4,637,335, Cl. 114-230.000.
Pollack, Jack, 4,645,467, Cl. 441-4.000.
Pollack, Jack; and Mann, Tarlochan S., 4,647,076, Cl. 285-95.000.
Pollack, Jack, 4,666,339, Cl. 405-202.000.
Pollack, Jack, 4,669,412, Cl. 114-230.000.
Pollack, Jack; and Pabers, Richard F., 4,699,191, Cl. 141-279.000.
Pollack, Jack; and Pabers, Richard F., 4,708,178, Cl. 141-279.000.

Amtelco: *See*—
Curtin, William J.; Adams, Cedric; and Soto, Stephen H., 4,674,116, Cl. 379-211.000.

Amtrol Inc.: *See*—
Kirk, Kenneth L., and O'Connor, Robert F., 4,688,694, Cl. 220-89.00A.

Amuda, Suarawu O., to Borg-Warner Automotive, Inc. Pressure responsive switch assembly. 4,694,127, 9-15-87, Cl. 200-83.00P.

Amundsen, Bruce L.: *See*—
Marx, Emil A.; Amundsen, Bruce L.; Anderson, Curtis L.; Erichsen, Glenn A.; and Wood, Timothy D., 4,651,476, Cl. 51-410.000.

Amundsen, Louis R.; Patterson, Robert P.; Baxter, Tanya L.; Scudder, Glenn N.; Duescher, Wayne O.; Dahlman, Willis E.; Schukar, Gary W., and Steinback, Clarence L., to University of Minnesota, Regents of the; and Twin City Surgical, Inc. Method and apparatus for measuring the isometric muscle strength of multiple muscle groups in the human body. 4,702,108, 10-27-87, Cl. 73-379.000.

Amundson, Anita L.; and Tokay, Joseph. Shopping cart caddy. 4,685,701, 8-11-87, Cl. 281-42.000.

Amundson, Anthony P., to Microcom, Inc. Data telecommunications system and method utilizing a multi-mode modem. 4,680,773, 7-14-87, Cl. 375-8.000.

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Amundson, Anthony P.: *See*—
Bergins, Lewis A.; Amundson, Anthony P.; and Falk, Jerry, 4,691,314, Cl. 370-94.000.

Amundson, David C.: *See*—
Lekholm, Anders; and Amundson, David C., 4,697,591, Cl. 128-419.0PG.
Thornander, Hans T.; Poore, John W.; Sholder, Jason A.; Thacker, James R.; and Amundson, David C., 4,712,555, Cl. 128-419.0PG.

Amundson, Frank M.; Manners, Herbert C.; and Jeffries, Paul M., to Femco Machine Co. Device for removing or stripping material. 4,663,995, 5-12-87, Cl. 81-45.000.

Amuti, Kofi S.; and Sweetser, Philip B., to Du Pont de Nemours, E. I., and Company. Herbicidal antidotes. 4,645,527, 2-24-87, Cl. 71-90.000.

Amway Corporation: *See*—
Klemm, Steven R.; and Foote, Michael R., 4,659,496, Cl. 252-90.000.
McDowell, David E., 4,636,232, Cl. 55-350.000.
Rosendall, Henry J., 4,701,195, Cl. 55-473.000.
Taylor, Roy M., Jr.; and Klemm, Steven R., 4,664,836, Cl. 252-91.000.

Amy, A. Andre; and Babineaux, Jules, to Metal Improvement Co., Inc. Shot-peening method. 4,693,102, 9-15-87, Cl. 72-53.000.

An, Hee K., to Samsung Electronics Co., Ltd. Cassette ejector for video cassette recorder. 4,665,452, 5-12-87, Cl. 360-96.500.

An, Hung D., to ACI Australia Limited. Automatic profile web filler. 4,671,044, 6-9-87, Cl. 53-468.000.

An-Son Petrochemical, Inc.: *See*—
Martucci, David J., 4,675,120, Cl. 252-8.553.

An-Tech International Livestock Products, Inc.: *See*—
Howe, Steven R.; and Howe, Phillip D., 4,696,119, Cl. 40-301.000.

ANA Tech Corporation: *See*—
Spehrley, Charles W., Jr.; Schneider, Gary W.; Lipkie, Curtis A.; and Cranston, Dean H., 4,686,581, Cl. 358-294.000.

Anachemia Solvents Limited: *See*—
McGregor, Ian R.; Jackson, D. Keith; Brown, Walter F. M., and Burrell, Kenneth, 4,708,775, Cl. 203-40.000.

Anacomp, Inc.: *See*—
Bergstrom, Donald J.; and Wolfer, Allan J., 4,710,691, Cl. 318-696.000.

Anadarko Production Company: *See*—
Johnson, Marvin B., 4,647,050, Cl. 277-19.000.

Anafi, David: *See*—
Guthrie, Richard; McDonald, Thomas B., III; and Anafi, David, 4,664,517, Cl. 356-138.000.

Anagnostopoulos, Constantine; and White, Marvin H., to Eastman Kodak Company. Blooming control in CCD image sensors. 4,654,683, 3-31-87, Cl. 357-24.000.

Anagnostopulos, Hiristo: *See*—
Furrer, Harald; Anagnostopulos, Hiristo; and Gebert, Ulrich, 4,713,455, Cl. 544-267.000.

Anagnostou, Taki J.: *See*—
Frisch, Kurt C.; Xiao, Hong X.; and Anagnostou, Taki J., 4,677,029, Cl. 428-423.100.

Anahara, Meiji; Mizuno, Yoshikatsu; Hirano, Mitsutoshi; and Gomi, Fukuo, to Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Method for manufacturing a fiber reinforcement body for a metal matrix composite. 4,671,336, 6-9-87, Cl. 164-110.000.

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Anai, Katsumi: *See*—

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Anaker, Donald G., to Midwestern Reliable Equipment, Inc. Hydraulic intensifier. 4,671,063, 6-9-87, Cl. 60-458.000.

Analgesic Associates: *See*—

Sunshine, Abraham; Laska, Eugene M.; and Siegel, Carole E., 4,656,177, Cl. 514-264.000.

Analog Devices, Incorporated: *See*—

Bokil, Delip R., 4,685,230, Cl. 437-215.000.

Brokaw, Adrian P., 4,646,056, Cl. 338-195.000.

Brokaw, Adrian P.; and Maidique, Modesto A., 4,707,682, Cl. 340-347.0AD.

Brokaw, Adrian P., 4,709,167, Cl. 307-443.000.

Butler, Gregg A., 4,697,151, Cl. 330-2.000.

Carison, William H., Jr.; and Shafer, Paul H., 4,646,238, Cl. 364-403.000.

Counts, Lewis W.; and Close, JoAnn P., 4,639,683, Cl. 330-253.000.

Holloway, Peter R., 4,678,936, Cl. 307-303.000.

Libert, Robert J., 4,644,253, Cl. 323-275.000.

Minogue, Paschal, 4,684,922, Cl. 340-347.0DA.

Rastegar, Ali, 4,694,276, Cl. 340-347.0AD.

Analog and Digital Systems, Inc.: *See*—

DeFreitas, Richard E.; and Sullivan, Daniel T., 4,682,362, Cl. 381-61.000.

Analogic Corporation: *See*—

Dobbs, John M.; and Gordon, Bernard M., 4,677,554, Cl. 364-414.000.

Gyles, Colin, 4,654,584, Cl. 324-76.00R.

Neumann, Leopold, 4,680,798, Cl. 381-68.400.

Analytic Sciences Corporation, The: *See*—

Tom, Victor T., 4,683,496, Cl. 358-166.000.

Analytichem International, Inc.: *See*—

Good, Thomas J., 4,711,764, Cl. 422-65.000.

Stolowitz, Mark L., 4,665,037, Cl. 436-89.000.

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Anantha, Narasipur G.; Bhatia, Harsaran S.; Gaur, Santosh P.; and Mauer, John L., IV, to International Business Machines Corporation. Method for making Schottky diode having limited area self-aligned guard ring. 4,691,435, 9-8-87, Cl. 437-175.000.

Ananthapadmanabhan, Kavssery P.; and Goodard, Errol D., to Union Carbide Corporation. Process for the recycle of phase-forming liquids of multi-phase aqueous systems. 4,690,892, 9-1-87, Cl. 435-183.000.

Anantharamaiah, Gattadahalli M.: *See*—

Segrest, Jere P.; and Anantharamaiah, Gattadahalli M., 4,643,988, Cl. 514-12.000.

Anapliotis, Emmanuel; and Kranz, Curt, to MECRON medizinische Produkte GmbH. Unit for resection prosthesis. 4,676,797, 6-30-87, Cl. 623-18.000.

Anapliotis, Emmanuel: *See*—

Brinckmann, Paul; and Anapliotis, Emmanuel, 4,687,486, Cl. 623-16.000.

Anastassiou, Dimitris; and Pennebaker, William B., to International Business Machines Corporation. Correction of shading effects in video images. 4,695,884, 9-22-87, Cl. 358-163.000.

Anastos, Arleen R., to Arjon Mfg. Corporation. Multiple function magnetic utility cup. 4,660,715, 4-28-87, Cl. 206-0.800.

Anastos, Willian. N.: *See*—

White, W. Gordon; and Anastos, William N., 4,656,751, Cl. 33-358.000.

Anatel Instrument Corporation: *See*—

Blades, Frederick K.; and Godec, Richard D., 4,666,860, Cl. 436-146.000.

Blades, Frederick K., 4,683,435, Cl. 324-442.000.

Anazawa, Osamu: *See*—

Kokubun, Yoshikazu; Kurosawa, Akihito; Anazawa, Osamu; Sunouchi, Daigo; and Yoshihara, Masayuki, 4,676,398, Cl. 221-129.000.

Kurosawa, Akihito; and Anazawa, Osamu, 4,673,105, Cl. 221-281.000.

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Anbo, Kuniaki: *See*—

Shimura, Masatoshi; Yokoyama, Kunio; Anbo, Kuniaki; and Anzai, Kazuhiro, 4,652,937, Cl. 358-286.000.

Ancarani Restelli, Amedeo, to Societa' Italiana Catene Calibrate Regina S.p.A. Guide for flexible endless drive member. 4,642,073, 2-10-87, Cl. 474-111.000.

Ance, Louis: *See*—

Carswell, Joseph; and Ance, Louis, 4,695,018, Cl. 248-74.200.

Ancelle, Eric J., to BECAP. Pin, especially for clamping a sleeve-shaped protector or centering device on its tube serving for drilling an underground deposit. 4,705,121, 11-10-87, Cl. 175-325.000.

Anchor/Darling Valve Company: *See*—

Barb, Gayle E., 4,700,746, Cl. 137-625.280.

Anchor Hocking Corporation: *See*—

Bennett, Robert A., 4,669,622, Cl. 215-237.000.

Bennett, Robert A., 4,700,858, Cl. 215-237.000.

Hayes, Thomas H., 4,651,905, Cl. 222-394.000.

Hayes, Thomas H., 4,657,153, Cl. 215-252.000.

Hayes, Thomas H., 4,694,970, Cl. 215-252.000.

Pugh, Richard E., 4,660,720, Cl. 206-426.000.

Anchor Industries, Inc.: *See*—

Daus, John J., Jr.; and James, Henry E., 4,648,734, Cl. 403-170.00

Anchor Wire Corporation of Tennessee: *See*—

Hogg, James W., 4,669,169, Cl. 29-432.000.

Ancillotti, Enrico. Stationary bicycle with inclinable pedal crank axe for treating knee anomalies. 4,708,128, 11-24-87, Cl. 128-25.00R.

Ancker, Fred H.; and Ashcraft, Arnold C., Jr., to Union Carbide Corporation. Impact promoters for mineral-filled thermoplastics 4,661,537, 4-28-87, Cl. 523-200.000.

Anco Engineers, Inc.: *See*—

Scharton, Terry D.; and Taylor, George B., 4,645,542, Cl. 134-1.000.

Scharton, Terry D.; and Taylor, George B., 4,655,846, Cl. 134-1.000.

Scharton, Terry D.; and Taylor, George B., 4,699,665, Cl. 134-1.000.

Scharton, Terry D.; Taylor, George B.; and Kidd, Charles 4,700,134, Cl. 324-220.000.

Ancor Industries, Inc.: *See*—

Anderson, Linda K., 4,712,031, Cl. 310-90.000.

Ancra Corporation: *See*—

Cole, Stephen C., 4,696,609, Cl. 410-69.000.

Geese, Larry L., 4,646,396, Cl. 24-230.50R.

Jensen, Richard H., 4,708,549, Cl. 410-105.000.

Anczurowski, Edward. Representation of color for blind persons 4,650,421, 3-17-87, Cl. 434-113.000.

Andeen, Bruce R., to Helix Technology Corporation. Cooling heat exchanger. 4,679,402, 7-14-87, Cl. 62-55.500.

Andeen, Gerry B.; Shrader, Eric J.; and Kornbluh, Roy D., to SRI International. Slip sensing method and apparatus. 4,637,736, 1-20-87, Cl. 374-45.000.

Andeen, Gerry B., to SRI International. Fluid motor-pumping apparatus and method for energy recovery. 4,637,783, 1-20-87, Cl. 417-318.000.

Andeen, Gerry B.; Matsumoto, Yasuo; and Cohn, Patricia O., to Tokyo Electric Co., Ltd. Image recording method and its apparatus 4,647,945, 3-3-87, Cl. 346-1.100.

Anderheggen, Wolfgang; Hahn, Winand; Vogelsgesang, Roland; and Wagner, Wolfram, to Bayer Aktiengesellschaft. Process and an apparatus for the distribution of fluids. 4,688,590, 8-25-87, Cl. 137-15.000.

Anderl, Siegfried, to Wuerttembergische Metallwarenfabrik AG. Coffee percolator. 4,633,771, 1-6-87, Cl. 99-280.000.

Anderl, Siegfried, to Wuerttembergische Metallwarenfabrik AG. Coffee percolator. 4,688,474, 8-25-87, Cl. 99-289.00R.

Anderman, Menahem; and Lundquist, Joseph T., to W. R. Grace & Co. Composite cathodic electrode. 4,654,281, 3-31-87, Cl. 429-209.000.

Andernach, Dieterich; and Wurm, Manfred, to Dr. Johannes Heidenhain GmbH. Method for representing three dimensional structures 4,714,920, 12-22-87, Cl. 340-747.000.

Anders, Dietmar, to Hermann Berstorff Maschinenbau GmbH. Apparatus for producing profiles or webs such as tread strips for vehicle tires. 4,642,039, 2-10-87, Cl. 425-140.000.

Anders, Edwin D.: *See*—

Burrow, Charles A.; and Anders, Edwin D., 4,667,897, Cl. 242-129.000.

Anders, Frank W.; Herring, Joseph C.; and White, Douglas A., to Intelli-Tech Corporation. LIMIS systems, devices and methods 4,656,463, 4-7-87, Cl. 340-572.000.

Anders, Heinz-Gerhard: *See*—

Alender, Wolfgang J.; Anders, Heinz-Gerhard; and Leuthner, Hermann J., 4,648,282, Cl. 73-862.230.

Anders, John B.: *See*—

Walsh, Michael J.; Anders, John B.; and Hefner, Jerry N., 4,706,910, Cl. 244-130.000.

Anders, Peter: *See*—

Gob, Werner; and Anders, Peter, 4,690,103, Cl. 123-41.120.

Anders, Walter G.; Grosswiller, Leo J., Jr.; Lozier, Benjamin F.; and Rozlosnik, Alan J., to Diebold, Incorporated. Valve and blower apparatus for pneumatic tube system. 4,710,098, 12-1-87, Cl. 415-149.00A.

Anders, William S.; and Hallman, Steven J., to General Motors Corporation. Electric motor driven rack and pinion steering gear with take-off from axially slidable nut. 4,653,602, 3-31-87, Cl. 180-79.100.

Andersen, Arve, to Elopak A/S. Fluid flow nozzle. 4,709,836, 12-1-87, Cl. 222-490.000.

Andersen, David J.: *See*—

Poplawski, Judith A.; and Andersen, David J., 4,713,012, Cl. 434-373.000.

Andersen, David M.; Bitzer, Donald L.; Rader, Robert K.; Sherwood, Bruce A.; and Tucker, Paul T., to University of Illinois. Cluster computer based education delivery system. 4,636,174, 1-13-87, Cl. 434-335.000.

Andersen, Else M.: *See*—

Leuba, Jean-Louis; Meyer, Inge; and Andersen, Else M., 4,701,339, Cl. 426-643.000.

Andersen, Erik; and Leoni, Gianni, to Meadox Surgimed A/S. Dilatation catheter. 4,706,670, 11-17-87, Cl. 128-344.000.

Andersen, Garry E.; Quinn, James R.; and Linnert, Peter J., to American Standard Inc. Compressor suction gas heat shield. 4,701,114, 10-20-87, Cl. 417-564.000.

Andersen, George J.: *See*—

Karlis, Robert G.; Dole, Charles M.; Webster, Gary L.; and Andersen, George J., 4,712,713, Cl. 222-3.000.

Andersen, Henning R.: *See*—

Pless, Peter; and Andersen, Henning R., 4,640,298, Cl. 128-784.000.

dersen, Ib N., to Telefonaktiebolaget LM Ericsson. Apparatus for oad regulation in computer systems. 4,692,860, 9-8-87, Cl. 364-200.000.

dersen, James C.: *See—*
Jakacki, Edwin J.; Ogie, Larry G.; Landwer, Jonathan C.; and Andersen, James C., 4,661,161, Cl. 106-112.000.

dersen, Joergen: *See—*
Rich, Russell; and Andersen, Joergen, 4,657,028, Cl. 128-765.000.

dersen, John E.; Barry, Robert L.; Christie, Kenneth H.; and Shea, Dennis J., to International Business Machines Corporation. Directory nemory system having simultaneous write, compare and bypass capabilites. 4,663,742, 5-5-87, Cl. 365-189.000.

dersen, Jon A.: *See—*
Alaimo, Robert J.; and Andersen, Jon A., 4,716,168, Cl. 514-293.000.

dersen, Jorgen B.; and Raskmark, Povl, to Danish Hyperthermia Foundation, The. Electromagnetic applicator for localizing hyperthermia heating in a system. 4,702,262, 10-27-87, Cl. 128-804.000.

dersen, Jorgen W., to Motorola, Inc. Optimized communications system and method employing channel synthesis and phase lock detection. 4,672,632, 6-9-87, Cl. 375-57.000.

dersen, Keith D.: *See—*
Cagle, Larry L.; Andersen, Keith D.; and Lurvey, Victor E., 4,714,578, Cl. 264-255.000.

dersen Manufacturing, Inc.: *See—*
Andersen, Robert L.; and Andersen, Richie D., 4,684,129, Cl. 273-1.50R.

dersen, Marinus L., to Hach Company. Pump colorimetric analyzer. 4,715,710, 12-29-87, Cl. 356-246.000.

dersen, Michael, to DeForenede Bryggerier. Apparatus for milling cereals. 4,667,888, 5-26-87, Cl. 241-76.000.

dersen, Niels: *See—*
Rasmussen, Hans M.; and Andersen, Niels, 4,669,331, Cl. 74-570.000.

dersen, Niels J. Spray-type integrated vegetable blancher and cooler. 4,702,161, 10-27-87, Cl. 99-470.000.

dersen, Niels L., to Danfoss A/S. Method for connecting reaction-sintered silicon carbide parts with iron- or metal parts, and embodiment of an ionization electrode according to the method. 4,699,762, 10-13-87, Cl. 419-9.000.

dersen, Per F. Wave generating apparatus. 4,705,428, 11-10-87, Cl. 405-79.000.

dersen, Richie D.: *See—*
Andersen, Robert L.; and Andersen, Richie D., 4,684,129, Cl. 273-1.50R.

dersen, Robert L.; and Andersen, Richie D., to Andersen Manufacturing, Inc. Basketball standard and adjustable support strut therefor. 4,684,129, 8-4-87, Cl. 273-1.50R.

dersen, Robert N.; and Walker, Harrell L., to United States of America, Agriculture. Control of eastern black nightshade with a fungal pathogen. 4,715,881, 12-29-87, Cl. 71-79.000.

dersen, Robert P.: *See—*
Douglas, Robert J.; Doughty, Robert L.; Mungovan, John P.; Andersen, Robert P.; and Abbott, Vaughan, 4,687,502, Cl. 65-164.000.

nderson, Albert R.: *See—*
Brouwer, Nicholaas L.; Urbanic, John M., and Anderson, Albert R., 4,659,234, Cl. 374-121.000.

nderson, Alex L., to Micro Surface Technology, Inc. Electrical discharge shape forming and surface conditioning device. 4,683,364, 7-28-87, Cl. 219-69.00R.

nderson, Alma G., Jr.: *See—*
Gunter, William D., Jr.; Donaldson, Ralph W.; and Anderson, Alma G., Jr., 4,697,922, Cl. 356-28.500.

nderson, Andrew A.; and Kirkland, Garey L. Modular secondary containment kit for housing pipelines. 4,653,958, 3-31-87, Cl. 405-157.000.

nderson, Andrew G.; Bullen, David A.; and Ferguson, Robert G., to Canadian Fram Limited. Accessory drive with band brake. 4,677,877, 7-7-87, Cl. 74-785.000.

nderson, Andrew G., and Shoji, Leigh A., to Bendix Electronics Limited. Bellows activated underdrive two speed accessory drive. 4,706,521, 11-17-87, Cl. 74-785.000.

nderson, Andrew G.; and Shoji, Leigh A., to Canadian Fram Limited. Double acting clutch. 4,708,229, 11-24-87, Cl. 192-87.170.

nderson, Andrew G.: *See—*
Seung, Michael B.; Sivalingham, Ramalingam; Bullen, David A.; Anderson, Andrew G.; and McCharles, Donald A., 4,662,861, Cl. 474-86.000.

nderson, Andrew W., deceased (by Anderson, Miriam, executrix), to Scandia Packaging Machinery Company. Method and assembly for sealing articles. 4,671,045, 6-9-87, Cl. 53-463.000.

nderson, Arlan J.: *See—*
Hogeboom, John G.; Thomas, Terry N.; Yarak, Dennis A.; and Anderson, Arlan J., 4,650,930, Cl. 379-93.000.

nderson, Arthur A.: *See—*
Pillage, Lawrence T.; and Anderson, Arthur A., 4,683,989, Cl. 187-121.000.

nderson, Arthur B.; and Brandt, Sherry L., to Procter & Gamble Company, The. Pantiliner with ventilation areas. 4,681,578, 7-21-87, Cl. 604-385.00R.

nderson, Arthur H.; and MacNicol, Allan E., to Bimax Controls, Inc. Thermostatic steam trap. 4,646,965, 3-3-87, Cl. 236-59.000.

nderson, Bjorn: *See—*
Lindgren, Hakan; and Anderson, Bjorn, 4,714,659, Cl. 428-685.000.

Anderson, Bradley D., to Upjohn Company, The. Prostaglandin analogs. 4,666,934, 5-19-87, Cl. 514-412.000.

Anderson, Bruce E., to AlcoTec Wire Co. Process for welding aluminum articles. 4,674,672, 6-23-87, Cl. 228-135.000.

Anderson, C. Lawrence: *See—*
Clark, Marion D.; and Anderson, C. Lawrence, 4,692,993, Cl. 437-53.000.

Anderson, Carl E.; and Killop, James T., to Anderson-Cook, Inc. Apparatus for flanging and splining a thin-walled power transmission member. 4,677,836, 7-7-87, Cl. 72-88.000.

Anderson, Carl F.: *See—*
Sedergran, Thomas C.; and Anderson, Carl F., 4,675,398, Cl. 540-355.000.

Anderson, Carl P., to Ricoh Company, Ltd.; and Ricoh Systems, Inc. Automatic platen document stop for electrophotographic copying apparatus having an automatic feed arrangement. 4,639,128, 1-27-87, Cl. 355-75.000.

Anderson, Carl P.; and Mayer, Edward F., to Ricoh Co. Ltd.; and Ricoh Systems, Inc. Recirculating automatic document feeder. 4,703,923, 11-3-87, Cl. 271-3.100.

Anderson, Carl R.; and Seaman, Gary G., to American Telephone and Telegraph Company, AT&T Technologies Inc. Apparatus and methods for handling bulk arrays of articles. 4,678,073, 7-7-87, Cl. 198-396.000.

Anderson, Carlton. Safety electrical receptacle. 4,657,333, 4-14-87, Cl. 339-164.00R.

Anderson, Cecilia M.: *See—*
Anderson, Vern R., 4,658,535, Cl. 43-42.500.

Anderson, Charles H.; Carlson, Curtis R.; and Burt, Peter J., to RCA Corporation. Image-data reduction technique. 4,692,806, 9-8-87, Cl. 358-209.000.

Anderson, Charles H.: *See—*
Liu, Richard T.; Nickerson, Winston R., and Anderson, Charles H., 4,634,598, Cl. 426-650.000.

Anderson, Charles R., to Nicolet Instrument Corporation. Double-pass optical interferometer. 4,678,333, 7-7-87, Cl. 356-346.000.

Anderson, Charles W.: *See—*
Edwards, Gene R.; and Anderson, Charles W., 4,709,206, Cl. 324-158.00P.

Anderson, Chris, to Chem Biochem Research, Inc. Method of producing ethynyl aromatic compounds. 4,665,246, 5-12-87, Cl. 585-320.000.

Anderson-Cook, Inc.: *See—*
Anderson, Carl E.; and Killop, James T., 4,677,836, Cl. 72-88.000.
Killop, James T.; and Holbrook, Gerald W., 4,644,772, Cl. 72-88.000.
Killop, James T.; and Holbrook, Gerald W., 4,689,980, Cl. 72-88.000.
Killop, James T., 4,712,408, Cl. 72-88.000.
Killop, James T., 4,712,409, Cl. 72-88.000.
Killop, James T., 4,712,410, Cl. 72-108.000.

Anderson, Craig B.; and Vollmer, George W., to Eaton Corporation. Ring gear/pinion gear design. 4,651,587, 3-24-87, Cl. 74-459.500.

Anderson, Craig L.: *See—*
Anderson, Todd L.; and Anderson, Craig L., 4,653,759, Cl. 273-261.000.

Anderson, Curtis L.: *See—*
Marx, Emil A.; Amundsen, Bruce L.; Anderson, Curtis L.; Erichsen, Glenn A.; and Wood, Timothy D., 4,651,476, Cl. 51-410.000.

Anderson, Daniel F., to Texas Instruments Incorporated. Semiconductor memory with redundant column circuitry. 4,691,301, 9-1-87, Cl. 365-200.000.

Anderson, Daryl R. Enclosure cabinet for outdoor-use devices. 4,673,227, 6-16-87, Cl. 312-100.000.

Anderson, David. Swivel joint. 4,693,500, 9-15-87, Cl. 285-94.000.

Anderson, David A., to Boeing Company, The. Method of determining feed rate and cutting speed for cutting metal and of predicting cutting effects. 4,707,793, 11-17-87, Cl. 364-474.000.

Anderson, David B.; Schmiegel, Klaus K.; and Veenhuizen, Edward L., to Eli Lilly and Company. Growth promotion. 4,690,951, 9-1-87, Cl. 514-653.000.

Anderson, David H. Intrusion indicating shield for consumer products. 4,678,083, 7-7-87, Cl. 206-459.000.

Anderson, David K.; and Kozlak, Martin J., to Combustion Engineering, Inc. Sorbent injection system. 4,651,653, 3-24-87, Cl. 110-234.000.

Anderson, David K.: *See—*
Bianca, Joseph D.; and Anderson, David K., 4,715,301, Cl. 110-347.000.

Anderson, David M.: *See—*
McStravick, David M.; Chenoweth, David V.; and Anderson, David M., 4,673,652, Cl. 436-2.000.

Anderson, Doris E.: *See—*
Anderson, Raymond G.; and Anderson, Doris E., 4,640,287, Cl. 128-460.000.

Anderson, Douglas E.; and Mitchell, Keith J., to Babcock Wire Equipment Limited. Continuous metal extrusion apparatus. 4,650,408, 3-17-87, Cl. 425-79.000.

Anderson, Edward M. Multitrack apparatus for frying food. 4,658,709, 4-21-87, Cl. 99-406.000.

Anderson, Edwin A.; and Webb, Derrel D. Sealing arrangement for pin and box threaded connection of tubular members. 4,647,085, 3-3-87, Cl. 285-333.000.

Anderson, Eric: *See—*
Fourty, Georges; Anderson, Eric; and Rexer, Jurgen, 4,657,049, Cl. 138-133.000.

Anderson, F. Allan; Chen, Henry C. J.; DiMucci, Vito A.; and Wang, Roger C., to Peco Controls Corporation. Filler line monitoring system. 4,691,496, 9-8-87, Cl. 53-53.000.

Anderson, Floyd E.; and Lin, Liang-Tsai, to Motorola, Inc. On chip test system for configurable gate arrays. 4,635,261, 1-6-87, Cl. 371-25.000.

Anderson, Floyd E., to Motorola, Inc. Current and frequency controlled voltage regulator. 4,700,124, 10-13-87, Cl. 323-225.000.

Anderson, Forrest L. Device for imaging three dimensions with a single pulse transmission. 4,688,430, 8-25-87, Cl. 73-625.000.

Anderson, Forrest L. Single pulse imaging device using huygens wavelet reconstruction. 4,706,499, 11-17-87, Cl. 73-625.000.

Anderson, Francis J., to Anderson Research and Development Limited. Vibrating sensing device. 4,681,991, 7-21-87, Cl. 200-61.45R.

Anderson, Fred H. E.: *See—*

Schleimann-Jensen, Lars J.; and Anderson, Fred H. E., 4,714,214, Cl. 244-3.160.

Anderson, Frederick W.: *See—*

Wilson, Monti R.; Hutchison, Victor E.; Bendure, William J.; and Anderson, Frederick W., 4,641,244, Cl. 364-475.000.

Anderson, Fredric E.; Grzesiak, Garry M.; and Rosenberg, Gary J., to Steel King Industries, Inc. Foldable container. 4,662,532, 5-5-87, Cl. 220-7.000.

Anderson, Garth R.; Manly, Kenneth F.; and Mittelman, Arnold, to Health Research, Inc. (Roswell Park Division). Process for detecting LDH$_4$ isozyme activity in human serum for use as a diagnostic aid and for monitoring response to cancer therapy. 4,654,301, 3-31-87, Cl. 435-26.000.

Anderson, Gary, to Dennison Manufacturing Company. Fastener for joining materials. 4,696,300, 9-29-87, Cl. 128-334.00R.

Anderson, Gary L.; and Lindow, Steven E., to University of California, The Regents of the. Mycological method for controlling Italian thistle growth. 4,636,386, 1-13-87, Cl. 424-93.000.

Anderson, Gary S.: *See—*

Rudy, Michael; Cary, Paul; and Anderson, Gary S., 4,675,856, Cl. 369-36.000.

Rudy, Michael; Cary, Paul; Anderson, Gary S.; and Roth, Arthur A., 4,685,095, Cl. 369-36.000.

Anderson, Gene: *See—*

Bennett, Derek J.; and Anderson, Gene, 4,656,616, Cl. 367-153.000.

Anderson, George C.; and Paul, Richard J. Lidded nursery plant container. 4,712,329, 12-15-87, Cl. 47-84.000.

Anderson, George E., to Crown Iron Works Company. Method and apparatus for heat treating flowable materials. 4,635,380, 1-13-87, Cl. 34-27.000.

Anderson, Gerald L.: *See—*

Babu, Suresh P.; Anderson, Gerald L.; and Nandi, Satyendra P., 4,699,632, Cl. 48-197.00R.

Anderson, Gordon K.: *See—*

Carson, Ernest A., and Anderson, Gordon K., 4,660,872, Cl. 292-242.000.

Anderson, Greenwood & Company: *See—*

Bickford, Cleo M., 4,674,530, Cl. 137-469.000.

McNeely, Michael D., 4,682,495, Cl. 73-168.000.

McNeely, Michael D.; and Powell, Walter W., 4,705,065, Cl. 137-484.600.

Anderson-Greenwood USA, Inc.: *See—*

Powell, Walter W., 4,672,995, Cl. 137-489.000.

Anderson, Gregory A.; Eason, Paul M.; and Wheelwright, Lynn M., to Hewlett-Packard Company. Spectrum analyzer with improved data analysis and display features. 4,649,496, 3-10-87, Cl. 364-485.000.

Anderson, Gregory A.; Eason, Paul M.; Marzalek, Michael S.; and Wheelwright, Lynn M., to Hewlett-Packard Company. Spectrum analyzer with improved data analysis and display features. 4,660,150, 4-21-87, Cl. 364-485.000.

Anderson, Harlan U.: *See—*

Brady, William J.; and Anderson, Harlan U., 4,682,987, Cl. 51-293.000.

Anderson, Harry A.: *See—*

Kornreich, Wayne D.; Anderson, Harry A.; Porter, John S.; and Rivier, Jean E. F., 4,701,499, Cl. 525-333.300.

Rivier, Jean E. F.; Anderson, Harry A.; and Vale, Wylie W., Jr., 4,677,193, Cl. 530-313.000.

Anderson, Harry E.; and Heasley, Raymond E. Apparatus for placing point supports on a metal cutting table. 4,673,103, 6-16-87, Cl. 221-186.000.

Anderson, Harvey L.: *See—*

Bryan, Thomas T.; and Anderson, Harvey L., 4,657,959, Cl. 524-266.000.

Anderson, Herbert L.; Kinnison, W. Wayne; and Lillberg, John W., to United States of America, Energy. Apparatus and method for reading two-dimensional electrophoretograms containing β-ray-emitting labeled compounds. 4,686,368, 8-11-87, Cl. 250-374.000.

Anderson, Hugh B., to Allelix Inc. Device for performing enzyme immunoassays. 4,690,801, 9-1-87, Cl. 422-68.000.

Anderson, Ian J.: *See—*

Lusk, Norman E.; and Anderson, Ian J., 4,685,378, Cl. 89-14.500.

Anderson, J. Dale; McMillen, Kenneth R.; and Goertz, Arnold E., to Hesston Corporation. Quick attach apparatus for crop harvest header and the like. 4,663,922, 5-12-87, Cl. 56-15.600.

Anderson, J. Dale; McMillen, Kenneth R.; and Goertz, Arnold E., to Hesston Corporation. Quick attach apparatus for crop harvest header and the like. 4,677,814, 7-7-87, Cl. 56-15.600.

Anderson, J. Edward, to University of Minnesota, Regents of the. Guideway construction and method of installation. 4,665,829, 5-19-87, Cl. 104-124.000.

Anderson, J. Edward; and Sassor, Donald C., to University of Minnesota, Regents of the. Guide construction and method of installation. 4,665,830, 5-19-87, Cl. 104-124.000.

Anderson, J. Edward; and Sells, Robert A., to University of Minnesota, Regents of the. Switch mechanism. 4,671,185, 6-9-87, Cl. 104-130.000.

Anderson, J. Edward C.; and Osborn, Merritt A., to Bares Group, The. Crimping tool. 4,640,117, 2-3-87, Cl. 72-410.000.

Anderson, J. Edward C., to Milbar Corporation. Cutting tool for synthetic resin tubes. 4,674,184, 6-23-87, Cl. 30-92.000.

Anderson, J. Gregory: *See—*

Ruffin, Paul B.; Anderson, J. Gregory; and Hunter, Joe S., 4,655,410, Cl. 242-158.00R.

Anderson, J. Hilbert. Flue gas heat recovery system. 4,660,511, 4-28-87, Cl. 122-420.000.

Anderson, J. Paul, to Husky Injection Molding Systems Ltd. Apparatus for injection molding. 4,662,837, 5-5-87, Cl. 425-548.000.

Anderson, Jack E. Wheelchair with variable ratio propulsion. 4,682,784, 7-28-87, Cl. 280-242.0WC.

Anderson, Jack F.; and Melrose, Clayton. Rotary tiller tool apparatus with vertical lift force variable in direct proportion to pressure to rotate tiller tool. 4,660,649, 4-28-87, Cl. 172-2.000.

Anderson, James. Rotary lawn mower accessories. 4,715,173, 12-29-87, Cl. 56-295.000.

Anderson, James D., to Burndy Corporation. Automatic method of making terminated coaxial leads. 4,641,428, 2-10-87, Cl. 29-863.000.

Anderson, James D., to Burndy Corporation. Compact semi-automatic cable assembly system. 4,675,995, 6-30-87, Cl. 29-861.000.

Anderson, James E.; and Holmes, Terry L., to Oscar Mayer Foods Corporation. Apparatus for coating materials onto elongated foodstuffs. 4,640,219, 2-3-87, Cl. 118-24.000.

Anderson, James E.; and Carlin, Samuel R., to Owens Products, Inc. Grill guard for vehicle front end. 4,671,552, 6-9-87, Cl. 293-144.000.

Anderson, James E.: *See—*

Powers, Richard G.; Schack, Warren R.; Alley, Lewis F.; and Anderson, James E., 4,700,899, Cl. 241-30.000.

White, James E.; Alley, Lewis F.; Anderson, James E.; and Birdsell, Jackie D., 4,637,936, Cl. 426-523.000.

Anderson, James L.; and Paktinat, Javad, to Hughes Tool Company. Method of fracturing a subterranean formation. 4,635,727, 1-13-87, Cl. 166-308.000.

Anderson, James L., to General Motors Corporation. Linear actuator control system for split axle drive mechanism. 4,699,235, 10-13-87, Cl. 180-247.000.

Anderson, James M.: *See—*

VanSchaick, Thomas E.; VanDusen, Morris V.; and Anderson, James M., 4,663,604, Cl. 336-96.000.

Anderson, James M., Jr., to Alltech Associates, Inc. Low pressure fitting. 4,690,437, 9-1-87, Cl. 285-356.000.

Anderson, James R., to Research, Incorporated. Integrated circuit chip switch. 4,642,734, 2-10-87, Cl. 361-380.000.

Anderson, Jane E.; Swartz, Harold L.; and DiMarco, Mario, to Sperry Corporation. Capacitive gravity sensor. 4,644,662, 2-24-87, Cl. 33-366.000.

Anderson, Jeffrey J.: *See—*

Peters, Stanley T.; Kolek, Robert L.; Guenther, Rolf A.; Anderson, Jeffrey J.; and Marshall, Clarence F., 4,701,231, Cl. 156-172.000.

Anderson, Jerry M.; Cannon, Thomas C., Jr.; Darden, Bruce V.; and Smith, Donald T., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Solderless electrical connector. 4,684,195, 8-4-87, Cl. 439-404.000.

Anderson, John; Homeyer, Bernhard; Kuhle, Engelbert; Scheinpflug, Hans; Zeck, Walter M.; and Simonet, Donald E., to Bayer Aktiengesellschaft, and Mobay Corporation. Compositions and methods of combating pests employing sulphenic acid amides in combination with known nematicides or insecticides. 4,656,163, 4-7-87, Cl. 514-84.000.

Anderson, John. Caulking forming tool. 4,673,346, 6-16-87, Cl. 425-458.000.

Anderson, John, III; and Knowlton, David R., to Gillette Company, The. Method and apparatus for forming and packaging unstable products. 4,651,503, 3-24-87, Cl. 53-440.000.

Anderson, John A., to VirTis Company, Inc., The. Cell culturing apparatus with improved stirring and filter means. 4,649,118, 3-10-87, Cl. 435-316.000.

Anderson, John A. Firearm. 4,709,617, 12-1-87, Cl. 89-157.000.

Anderson, John C.; Davies, Morris J.; and Lamb, Archie C., to Fiberdynamics, Inc. Fiberoptic temperature/pressure sensor system. 4,672,199, 6-9-87, Cl. 250-227.000.

Anderson, John C.; Davies, Morris J.; and Lamb, Archie C., to Fiberdynamics, Inc. Fiberoptic temperature/pressure sensor system. 4,703,174, 10-27-87, Cl. 250-227.000.

Anderson, John F., Jr.; and Long, Delmar D., to Dayco Products, Inc. Polymeric-coated fabric layer, product utilizing the layer and metho of making the same. 4,661,399, 4-28-87, Cl. 428-246.000.

Anderson, John J., to S. C. Johnson & Son, Inc. Spray cap assembl comprising a base unit and push/pull closure means. 4,711,37 12-8-87, Cl. 222-499.000.

Anderson, John P., to Hartwell Corporation. Slide hinge. 4,683,61 8-4-87, Cl. 16-362.000.

Anderson, Joseph A., to Haybuster Manufacturing, Inc. Chaff blowe for combines. 4,711,253, 12-8-87, Cl. 130-27.00R.

Anderson, Joseph C., to National Research Development Corporatio Siting a film onto a substrate including electron-beam evaporatio 4,698,235, 10-6-87, Cl. 427-42.000.

Anderson, Karen L.; Mitchell, Joan L.; Pennebaker, William B.; an Goertzel, Gerald, to International Business Machines Corporatio

Method for converting a bit map of an image to a run length or run end representation. 4,646,356, 2-24-87, Cl. 382-56.000.

Anderson, Karen L.; and Mintzer, Frederick C., to International Business Machines Corporation. Method for reducing a binary image. 4,656,664, 4-7-87, Cl. 382-47.000.

Anderson, Karen L.; and Mitchell, Joan L., to International Business Machines Corp. System for rotating binary images. 4,658,430, 4-14-87, Cl. 382-46.000.

Anderson, Karen L.: *See—*

Mintzer, Frederick C.; and Anderson, Karen L., 4,712,140, Cl. 358-260.000.

Mitchell, Joan L. V.; Anderson, Karen L.; and Mintzer, Frederick C., 4,689,824, Cl. 382-46.000.

Anderson, Keith D.: *See—*

Balston, Neil K.; Anderson, Keith D.; and Willemsen, Herman W., 4,672,600, Cl. 369-275.000.

Anderson, Kenneth E.: *See—*

Salestrom, Charles B.; and Anderson, Kenneth E., 4,639,841, Cl. 362-227.000.

Anderson, Kenneth W.; and Hickner, Richard A., to Dow Chemical Company, The. Cationic, advanced epoxy resin compositions. 4,698,141, 10-6-87, Cl. 204-181.700.

Anderson, Kevin J.: *See—*

Pavio, Anthony M.; and Anderson, Kevin J., 4,658,440, Cl. 455-324.000.

Anderson, Kirk D. Endotracheal tube holder. 4,658,814, 4-21-87, Cl. 128-207.170.

Anderson, Laurel L. Fishing device. 4,694,603, 9-22-87, Cl. 43-21.200.

Anderson, Leo J., to Sonar & Wells Testing Services, Inc. Downhole casing inspection system. 4,701,892, 10-20-87, Cl. 367-35.000.

Anderson, Leon R.: *See—*

Auxier, Thomas A.; Anderson, Leon R.; and Hill, Edward C., Jr., 4,664,597, Cl. 416-97.00R.

Anderson, Lewis G.; and Ku, Wen, to American Telephone and Telegraph Company. Method for interprocessor message accountability. 4,653,048, 3-24-87, Cl. 370-94.000.

Anderson, Linda K., to Ancor Industries, Inc. Unit bearing motor with hydrodynamic lubricating system. 4,712,031, 12-8-87, Cl. 310-90.000.

Anderson, Lloyd E.; and Anderson, Martin L. Cutting blade for carpet removing machines. 4,683,657, 8-4-87, Cl. 30-170.000.

Anderson, Lloyd L., to Iowa State University Research Foundation, Inc. Method of managing cattle breeding herds. 4,686,103, 8-11-87, Cl. 424-97.000.

Anderson Machine Works: *See—*

Boling, Monte J., 4,705,156, Cl. 198-392.000.

Anderson, Marie T.: *See—*

Boeck, LaVerne D.; Clem, Gladys M.; Hershberger, Charles L.; Anderson, Marie T.; and Michel, Karl H., 4,663,282, Cl. 435-68.000.

Anderson, Mark: *See—*

Alexander, William; Regan, Barbara R.; and Anderson, Mark, 4,677,174, Cl. 526-240.000.

Anderson, Mark L.: *See—*

Ennis, James F., III, 4,678,107, Cl. 222-386.500.

Ennis, James F., III, 4,693,706, Cl. 604-87.000.

Anderson, Mark S.; and Spector, George. Automatic choke shot gun. 4,713,904, 12-22-87, Cl. 42-79.000.

Anderson, Martin, to Du Pont de Nemours, E. I., and Company. Pesticidal benzoylurea compounds. 4,666,942, 5-19-87, Cl. 514-594.000.

Anderson, Martin, to Du Pont de Nemours, E. I., and Company. Benzoylurea compounds. 4,672,139, 6-9-87, Cl. 560-16.000.

Anderson, Martin, to Du Pont de Nemours, E. I., and Company. Pesticidal benzoylurea compounds. 4,698,365, 10-6-87, Cl. 514-594.000.

Anderson, Martin L.: *See—*

Anderson, Lloyd E.; and Anderson, Martin L., 4,683,657, Cl. 30-170.000.

Anderson, Marvin H., to Fluid Dynamics, Inc. Mixing apparatus. 4,701,055, 10-20-87, Cl. 366-336.000.

Anderson, Michael H.: *See—*

Wigness, Bruce D.; and Anderson, Michael H., 4,705,501, Cl. 604-43.000.

Anderson, Michael W.: *See—*

Van Malderghem, Edmund G.; Monico, Dominick L.; and Anderson, Michael W., 4,705,298, Cl. 282-11.50A.

Anderson, Mike K.; DieBold, Barry L.; Cutforth, Norman F.; and Cutforth, Dean J., to Rem Manufacturing Ltd. Grain and fertilizer collector. 4,662,800, 5-5-87, Cl. 406-53.000.

Anderson, Milan B., deceased (by Anderson, Thelma, administratrix), to Hewitt Tubular Products, Inc. Tandem wheel chock. 4,715,480, 12-29-87, Cl. 188-74.000.

Anderson, Miriam, executrix: *See—*

Anderson, Andrew W., deceased, 4,671,045, Cl. 53-463.000.

Anderson, Nathaniel C.; and Chesnutt, Robert B., to International Business Machines Corporation. Electrodepositing CoNiFe alloys for thin film heads. 4,661,216, 4-28-87, Cl. 204-44.500.

Anderson, Neil G.: *See—*

Harris, Robert M.; and Anderson, Neil G., 4,685,412, Cl. 114-238.000.

Anderson, Patricia P.: *See—*

Takekoshi, Tohru; and Anderson, Patricia P., 4,695,612, Cl. 525-433.000.

Takekoshi, Tohru; and Anderson, Patricia P., 4,716,216, Cl. 528-352.000.

Anderson, Paul A.: *See—*

Weiler, Gerhard H.; Anderson, Paul A.; and Fox, Kenneth A., 4,707,966, Cl. 53-410.000.

Anderson, Paul C.: *See—*

Hibberd, Kenneth A.; Anderson, Paul C.; and Barker, Melanie, 4,642,411, Cl. 800-1.000.

Anderson, Paul D. Paint brush cleaning stand. 4,660,245, 4-28-87, Cl. 15-268.000.

Anderson, Paul J.: *See—*

Garcia, Fernando S.; Ginnow-Merkert, Hartmut; Anderson, Paul J.; Hudson, Bertram J.; and Linde, David E., 4,637,403, Cl. 128-770.000.

Anderson, Paul L., to Sandoz Pharmaceuticals Corp. Erythro-(E)-7-[3'-C_{1-3}alkyl-1'-(3'',5''-dimethylphenyl)naphth-2'-yl]-3,5-dihydroxyhept-6-enoic acids and derivatives thereof. 4,686,237, 8-11-87, Cl. 514-532.000.

Anderson, Paul T.; Irwin, Lawrence; Matthews, John C.; and Paugh, Charles E., to Babcock & Wilcox Company, The. Vacuum sealing device for insulated steam injection tubing. 4,679,378, 7-14-87, Cl. 53-405.000.

Anderson, Paul T.; Irwin, Lawrence; Matthews, John C.; and Paugh, Charles E., to Babcock & Wilcox Company, The. Vacuum sealing device for insulated steam injection tubing. 4,694,634, 9-22-87, Cl. 53-88.000.

Anderson, Philip K. Air deflecting means for use with air outlets defined in dropped ceiling constructions. 4,693,174, 9-15-87, Cl. 98-40.050.

Anderson, Philip M.; Reich, Ronald K.; and Ujazdowski, Richard C., to Allied Corporation. Pulsed magnetic release mechanism. 4,651,136, 3-17-87, Cl. 340-572.000.

Anderson, Philip M.; Ujazdowski, Richard C.; and Urbanski, Jeffrey C., to Allied Corporation. Apparatus and method for marker verification. 4,675,655, 6-23-87, Cl. 340-505.000.

Anderson, Philip M.; and Torre, John J., to Allied Corporation. System including tuned AC magnetic field transmit antenna and untuned AC magnetic field receive antenna. 4,675,658, 6-23-87, Cl. 340-551.000.

Anderson, Philip M.; and Reich, Ronald K., to Allied Corporation. Surveillance marker clip assembly. 4,685,234, 8-11-87, Cl. 40-625.000.

Anderson, Philip M.; Ujazdowski, Richard C.; and Urbanski, Jeffrey C., to Allied Corporation. Apparatus and method for marker verification. 4,686,515, 8-11-87, Cl. 340-572.000.

Anderson, Philip M., III; and Urbanski, Jeffrey C., to Allied Corporation. Actuator system having magnetomechanical cantilever beam formed of ferromagnetic amorphous material. 4,644,310, 2-17-87, Cl. 335-215.000.

Anderson, Philip M., III; and Urbanski, Jeffrey C., to Allied Corporation. Article control system having coded magnetomechanical marker. 4,647,917, 3-3-87, Cl. 340-572.000.

Anderson, Philip M., III; and Urbanski, Jeffrey C., to Allied Corporation. Magnetomechanical transducers utilizing resonant frequency shifts to measure displacement of an object. 4,710,709, 12-1-87, Cl. 324-207.000.

Anderson, Porter W. Immunogenic conjugates. 4,673,574, 6-16-87, Cl. 424-92.000.

Anderson, R. David; and Jacobs, George S., to Mizer Controls, Inc. Flapper actuated pilot valve. 4,699,175, 10-13-87, Cl. 137-627.500.

Anderson, Raymond G.; and Anderson, Doris E. Releasable fastening means and method for clothing items, particularly caps, brassiers, and nursing brassiers. 4,640,287, 2-3-87, Cl. 128-460.000.

Anderson, Raymond L., to H. R. Black Company. Automatic indexer for industrial filters. 4,650,571, 3-17-87, Cl. 210-86.000.

Anderson, Reg A., to Tetradyne Corporation. Rapid response patrol and antiterrorist vehicle. 4,667,565, 5-26-87, Cl. 89-36.080.

Anderson Research and Development Limited: *See—*

Anderson, Francis J., 4,681,991, Cl. 200-61.45R.

Anderson, Richard. Protective enclosure for plants. 4,665,646, 5-19-87, Cl. 47-27.000.

Anderson, Richard N., to Hunter Douglas, Inc. Panel installation clip. 4,633,635, 1-6-87, Cl. 52-489.000.

Anderson, Richard N., to Hunger Douglas, Inc. Cord equalizer for locking together a plurality of cords of a blind assembly. 4,635,698, 1-13-87, Cl. 160-178.00C.

Anderson, Richard N., to Hunter Douglas, Inc. Cordlock structure for a blind assembly. 4,646,808, 3-3-87, Cl. 160-178.00C.

Anderson, Richard N., to Hunter Douglas, Inc. Cordlock structure for a blind assembly having improved locking means. 4,660,612, 4-28-87, Cl. 160-173.000.

Anderson, Richard N., to Hunter Douglas, Inc. Support for an operating element of a vertical blind assembly. 4,662,422, 5-5-87, Cl. 160-168.00R.

Anderson, Richard N., to Hunter Douglas Inc. Honeycomb structure. 4,673,600, 6-16-87, Cl. 428-12.000.

Anderson, Richard N., to Hunter Douglas, Inc. Method of fabricating honeycomb structures. 4,676,855, 6-30-87, Cl. 156-193.000.

Anderson, Richard N., to Hunter Douglas Inc. Honeycomb structure with band joined folded material and method of making same. 4,677,012, 6-30-87, Cl. 428-116.000.

Anderson, Richard N., to Hunter Douglas Inc. Honeycomb structure having a longitudinally extending back face. 4,677,013, 6-30-87, Cl. 428-116.000.

Anderson, Richard N., to Hunter Douglas, Inc. Method of making honeycomb structure with joined single pleat material. 4,685,986, 8-11-87, Cl. 156-197.000.

Anderson, Richard N., to Hunter Douglas Inc. Guided cord system for a retractable slatted blind assembly. 4,687,041, 8-18-87, Cl. 160-168.00R.

Anderson, Richard N., to Hunter Douglas Inc. Tilting device for the ladder means of a venetian blind. 4,697,629, 10-6-87, Cl. 160-177.000.

Anderson, Richard N., to Hunter Douglas Inc. Glass spacer construction. 4,702,296, 10-27-87, Cl. 160-107.000.

Anderson, Richard T. Strap assembly for securing and transporting mail. 4,684,163, 8-4-87, Cl. 294-149.000.

Anderson, Richard V.; and Carnes, Wendall D., to S.I.E., Inc. Wireline dump bailer. 4,696,343, 9-29-87, Cl. 166-164.000.

Anderson, Robert A., to Lucas Industries Public Limited Company. Hydraulic anti-skid braking systems for vehicles. 4,702,532, 10-27-87, Cl. 303-115.000.

Anderson, Robert D.; Estes, John D.; Carta, John; and Page, Gilbert J., to Brunswick Corporation. Expandable shelter system providing collective protection. 4,707,953, 11-24-87, Cl. 52-63.000.

Anderson, Robert H.; Ross, William E.; and Maki, Theodore R., to Litton Systems, Inc. Magneto-optic chip with gray-scale capability. 4,661,809, 4-28-87, Cl. 340-783.000.

Anderson, Robert J.; Keener, Harold M.; and Henry, James E., to Ohio State University. Fluidized bed combustor. 4,671,251, 6-9-87, Cl. 126-99.00R.

Anderson, Robert J.; Keener, Harold M.; and Henry, James E., to Ohio State University. Method for producing a clean heated fluid. 4,676,733, 6-30-87, Cl. 431-7.000.

Anderson, Robert L.; Pilarski, James A.; and Klintz, Jerry A., to Applied Microbotics Corporation. Method and apparatus for performing work in a three dimensional space. 4,639,653, 1-27-87, Cl. 318-599.000.

Anderson, Robert L., to Ford Motor Company. Ignition diagnostic monitor. 4,661,778, 4-28-87, Cl. 324-380.000.

Anderson, Robert M.: *See—*

Klee, Maurice; Peterson, Robert T.; Cochran, Gary L.; Dawson, James E.; and Anderson, Robert M., 4,682,666, Cl. 180-89.130.

Anderson, Robert O.: *See—*

Seider, Robert J.; Guichelaar, Philip J.; and Anderson, Robert O., 4,659,022, Cl. 241-23.000.

Seider, Robert J.; Guichelaar, Philip J.; and Anderson, Robert O., 4,686,032, Cl. 209-8.000.

Anderson, Robert W., to Anson Limited. Swivel pipe joint. 4,695,078, 9-22-87, Cl. 285-98.000.

Anderson, Robert W.; and Poleshuk, Michael, to Xerox Corporation. Thermally activated image bar. 4,701,772, 10-20-87, Cl. 346-160.000.

Anderson, Roger A.; Goodman, James L.; Tickle, John D.; and Liskey, A. Keith, to Morrison Molded Fiber Glass Company. Sucker rod construction. 4,653,953, 3-31-87, Cl. 403-268.000.

Anderson, Roger N.; Hobart, Michael A.; and Van Steveninck, William, to Columbia University in the City of New York, The Trustees of. Exploring for subsurface hydrocarbons by sea floor temperature gradients preferably using a multiplexed thermistor probe. 4,676,664, 6-30-87, Cl. 374-136.000.

Anderson, Ronald C. Fluid pressure screen printing apparatus, holder and assembly. 4,702,165, 10-27-87, Cl. 101-114.000.

Anderson, Ronald L.; and Kessler, Harry T., Jr. Machine for orientating and delivering tapered articles. 4,685,552, 8-11-87, Cl. 198-389.000.

Anderson, Ronald L.: *See—*

Harms, John R.; and Anderson, Ronald L., 4,648,780, Cl. 414-686.000.

Harms, John R.; and Anderson, Ronald L., 4,666,360, Cl. 414-607.000.

Harms, John R.; and Anderson, Ronald L., 4,706,762, Cl. 172-684.500.

Staley, Charles L.; Harms, John R.; and Anderson, Ronald L., 4,657,307, Cl. 299-36.000.

Anderson, Roy W.; Ross, Stephen J.; and Henderson, Larry D., to United Technologies Corporation. Arrangement for controllably mixing volatile materials. 4,715,723, 12-29-87, Cl. 366-142.000.

Anderson, Sharon K. Security system. 4,638,764, 1-27-87, Cl. 119-96.000.

Anderson, Stanley J. System for transporting and erecting very large and heavy construction equipment. 4,653,974, 3-31-87, Cl. 414-343.000.

Anderson, Steven. Seed planter attachment. 4,691,645, 9-8-87, Cl. 111-86.000.

Anderson Strathclyde PLC: *See—*

Gill, Arthur, 4,687,375, Cl. 405-146.000.

Steel, Alan, 4,655,340, Cl. 198-839.000.

Tomlinson, James E., 4,637,510, Cl. 198-735.000.

Anderson, Thelma, administratrix: *See—*

Anderson, Milan B., deceased, 4,715,480, Cl. 188-74.000.

Anderson, Thomas E.; and Howell, Edward K., to General Electric Company. Solid state circuit interruption employing a stored charge power transistor. 4,636,906, 1-13-87, Cl. 361-13.000.

Anderson, Thomas E.: *See—*

Howell, Edward K.; and Anderson, Thomas E., 4,639,933, Cl. 375-8.000.

Anderson, Thomas L., to Craig Systems Corporation. Shelter. 4,691,483, 9-8-87, Cl. 52-79.100.

Anderson, Thomas R. Sails and sailing vessels. 4,703,707, 11-3-87, Cl. 114-102.000.

Anderson, Thomas W.; Avva, Radha K.; Forrest, Bruce T.; Krawiec, Zbigniew A.; and Starrett, William R., to AT&T Bell Laboratories. Interface unit for transferring voice and data signals. 4,644,527, 2-17-87, Cl. 370-58.000.

Anderson, Todd B.: *See—*

Stich, Michael C.; Resman, John B.; Ottesen, Hjalmar H.; and Anderson, Todd B., 4,697,127, Cl. 318-561.000.

Anderson, Todd L.; and Anderson, Craig L. Three-person chess game board. 4,653,759, 3-31-87, Cl. 273-261.000

Anderson, Vern R., to Anderson, Cecilia M. Fishing lure. 4,658,535, 4-21-87, Cl. 43-42.500.

Anderson, Vernon A.; Hinman, Daryl E.; and Bumgardner, Jon H., to United States of America, Navy. Video processor. 4,661,987, 4-28-87, Cl. 382-41.000.

Anderson, Vernon B.: *See—*

Ong, Helen H.; Anderson, Vernon B.; and Profitt, James A., 4,668,695, Cl. 514-431.000.

Anderson, W. Lee: *See—*

Violett, Robert S.; and Anderson, W. Lee, 4,685,289, Cl. 60-269.000.

Anderson, Walter F., to Calmar, Inc. Precise output pump sprayer. 4,692,103, 9-8-87, Cl. 417-547.000.

Anderson, Wayne H.; Larson, David E.; and Reinhart, Mark R., to Media Systems Technology, Inc. Automatic sequencer for a flexible disk loader/copier. 4,707,750, 11-17-87, Cl. 360-60.000.

Anderson, Wayne R.: *See—*

Anderson, William J.; Anderson, Wayne R.; and Robinson, Larry D., 4,641,571, Cl. 98-72.000.

Anderson, William B.: *See—*

Huck, Peter M.; Andrews, Robert C.; and Anderson, William B., 4,636,367, Cl. 423-12.000.

Wobick, Robert F.; Anderson, William B.; Counter, Louis F.; and Dindinger, Phil M., 4,688,669, Cl. 198-712.000.

Anderson, William J.; Anderson, Wayne R.; and Robinson, Larry D., to Enamel Products & Plating Co. Turbo fan vent. 4,641,571, 2-10-87, Cl. 98-72.000.

Anderssen, Bjorn, to Kva. Spil Ltd. Swing window arrangements. 4,658,474, 4-21-87, Cl. 16-352.000.

Andersson, Anders O.; Slotboom, David R.; and Topness, Paul C., to Boeing Company, The. Portable impedance meter for non-destructive testing of sound absorbing panels. 4,651,566, 3-24-87, Cl. 73-589.000.

Andersson, Bengt A., to Waco Jonsereds AB. Device in woodworking machines. 4,677,733, 7-7-87, Cl. 29-563.000.

Andersson, Bo. Hydraulic valve means. 4,662,601, 5-5-87, Cl. 251-35.000.

Andersson, Conny; and Kollberg, Sten, to ASEA AB. Apparatus for the continuous casting of metal. 4,648,440, 3-10-87, Cl. 164-504.000.

Andersson, D. Bertil; Juhlin, Nils J. W.; Gillenium, Claes I.; Kjell-Berger, Olle; and Brinck, Owe R., to Rockwool Aktiebolaget. Coke briquettes. 4,661,119, 4-28-87, Cl. 44-10.00C.

Andersson, Denny. Ski holding device. 4,681,246, 7-21-87, Cl. 224-267.000.

Andersson, Goran: *See—*

Forslund, Alf; and Andersson, Goran, 4,695,414, Cl. 264-3.100

Andersson, Henry, to Affarsverket FFV. Telescopic guide, especially for transmittance of torque. 4,705,491, 11-10-87, Cl. 464-167.000.

Andersson, Jan A. R.; Moren, Nils F. E.; Wetterlin, Kjell I. L.; Snellman Wasenius, Kaija A.; and Virtanen, Risto, to Aktiebolaget Draco. Aerosol inhalation device. 4,641,644, 2-10-87, Cl. 128-200.230.

Andersson, Jarl; Edso, Lennart; Jonsson, Nils-Ake; and Rissler, Per, to Alfa-Laval Thermal AB. Plate heat exchanger. 4,699,212, 10-13-87, Cl. 165-167.000.

Andersson, Jarl A., to Alfa-Laval Thermal AB. Gasket arrangement for a plate heat exchanger. 4,635,715, 1-13-87, Cl. 165-167.000.

Andersson, Karl E. M.: *See—*

Andersson, Knut M. G.; and Andersson, Karl E. M., 4,655,710, Cl. 433-223.000.

Andersson, Karl G., deceased (by Berglund, Marianne, heir); and Paulsson, Bengt, to AB Siba-Verken. Downpipe. 4,641,464, 2-10-87, Cl. 52-16.000.

Andersson, Kjell, to Seco Tools AB. Device in rotary tools. 4,679,972, 7-14-87, Cl. 408-150.000.

Andersson, Kjell, to Tetra Pak International AB. Machine for filling containers with single-piece goods. 4,703,606, 11-3-87, Cl. 53-247.000.

Andersson, Knut M. G.; and Andersson, Karl E. M. Method for replacing lost dental substance. 4,655,710, 4-7-87, Cl. 433-223.000.

Andersson, Kurt G. Arrangement for the manufacture of an elongated organ. 4,673,345, 6-16-87, Cl. 425-174.80R.

Andersson, Lars; Glanvall, Rune; Ericson, Kjell; and Lundberg, Anders, to Stal Refrigeration AB. Drive for rotary compressor. 4,684,330, 8-4-87, Cl. 417-360.000.

Andersson, Lars G. R.; and Schorling, Stefan H. G., to Atlas Copco Aktiebolag. Feed beam for a rock drill. 4,682,899, 7-28-87, Cl. 384-41.000.

Andersson, Lars-Gunnar L., to Bilsom AB. Earplug device. 4,671,265, 6-9-87, Cl. 128-152.000.

Andersson, Leif H., to Telefonaktiebolaget LM Ericsson. Pivotally mounted guide means in endless ribbon cassettes. 4,645,363, 2-24-87, Cl. 400-196.100.

Andersson, Nils A. T.; and Lindgren, Bo S., to U.S. Philips Corporation. Device for the ejection of boxes through the exit of a container and box adapted for use in such a device. 4,650,092, 3-17-87, Cl. 221-222.000.

Andersson, Olle, to Verkstads AB Claes Johansson. Adjustable steering wheel shaft for vehicles. 4,709,592, 12-1-87, Cl. 74-493.000.

Andersson, Olle G., to Onspot AB. Anti-skid device. 4,657,118, 4-14-87, Cl. 188-4.00R.

Andersson, Per-Erik: *See—*

Molin, Nils L.; Welander, Thomas G.; Hansson, Bengt G.; Andersson, Per-Erik; and Annergren, Goran E., 4,659,471, Cl. 210-603.000.

Molin, Nils L.; Welander, Thomas G.; Hansson, Bengt G.; Andersson, Per-Erik; and Olsson, Bengt A. G., 4,663,043, Cl. 210-603.000.

Andersson, Peter B., to Rivus A/S. Plastic gutter. 4,646,487, 3-3-87, Cl. 52-11.000.

Andersson, Ralf G., to Gullfiber AB. Tubular filter primarily intended for filtration of liquids. 4,639,318, 1-27-87, Cl. 210-491.000.

Andersson, Stig G., to Aktiebolaget Overums Bruk. Device in a combined drill for simultaneously spreading seed and fertilizer. 4,700,640, 10-20-87, Cl. 111-1.000.

Andersson, Sture R.; Haland, Lars Y.; and Morner, Bengt O. J. S., to Autoliv Development AB. Seat belt pre-tensioning device. 4,705,296, 11-10-87, Cl. 280-806.000.

Andersson, Susanne; Gustafsson, Jan-Erik; Herngren, Torbjorn; Carlsson, Staffan; and Hage, Gunnar, to Svenska Traforskningsinstitutet; Sodra Skogsagarna AB—Monsteras Bruk; and ASEA Aktiebolag. Control of a black liquor recovery boiler. 4,683,841, 8-4-87, Cl. 122-22.000.

Andersson, Sven-Goran B., to Chemical Dynamics Development AB. Method for dealkylation of alkyl-aryl ethers. 4,695,659, 9-22-87, Cl. 568-805.000.

Andersson, Thorbjorn, to Tetra Pak International AB. Method for making a laminated material. 4,657,614, 4-14-87, Cl. 156-244.110.

Andersson, Tommy, to Autoliv Development AB. Locking device for vehicle safety belts. 4,653,703, 3-31-87, Cl. 242-107.40R.

Andersson, Tommy, to Autoliv Development AB. Retractor reel for a vehicle safety belt. 4,674,700, 6-23-87, Cl. 242-107.40R.

Andersson, Torbjorn C.: *See—*
  Holmberg, Erne L., and Andersson, Torbjorn C., 4,694,995, Cl. 241-92.000.

Andersson, Uno; and Svensson, Bengt, to Dynapac AB. Amplitude changing apparatus. 4,645,014, 2-24-87, Cl. 173-49.000.

Andert, Charles M.; and Corley, John E., to McDonnell Douglas Corporation. Automated machine tool. 4,688,973, 8-25-87, Cl. 409-80.000.

Andia Louvers, S.A.: *See—*
  Gracia, D. Enrique Sancho, 4,663,911, Cl. 52-484.000.

Andiamo Inc.: *See—*
  Myers, Jay E.; Myers, M. Todd; and Iravantchi, Siamak, 4,712,657, Cl. 190-28.000.

Anding, Claude: *See—*
  Place, Pierre; Anding, Claude; and Debourge, Jean-Claude, 4,677,128, Cl. 514-277.000.

Andis Company: *See—*
  Andis, Matthew L.; Urbush, Richard L.; and Maddocks, Thomas C., 4,659,907, Cl. 219-370.000.

Andis, Matthew L.; Urbush, Richard L.; and Maddocks, Thomas C., to Andis Company. Wall mounted device with hand-held hair dryer. 4,659,907, 4-21-87, Cl. 219-370.000.

Andis, Matthew L. Hair grooming attachment for a curling iron. 4,695,704, 9-22-87, Cl. 219-222.000.

Andle, Jeffrey C., to R. F. Monolithics, Inc. Doubly rotated orientations of cut angles for quartz crystal for novel surface acoustic wave devices. 4,670,680, 6-2-87, Cl. 310-313.00A.

Ando, Akiko: *See—*
  Yanagisawa, Hiroaki; Ishihara, Sadao; Ando, Akiko; Kanazaki, Takuro; Koike, Hiroyuki; and Tsujita, Yoshio, 4,699,905, Cl. 514-211.000.

Ando, Akio: *See—*
  Komatsu, Michiyasu; Miyano, Tadashi; Ando, Akio; Nakanishi, Masae; and Fujimoto, Youji, 4,671,912, Cl. 264-63.000.

Ando, Akira: *See—*
  Ogawa, Toshio; Fujishima, Satoru; and Ando, Akira, 4,649,313, Cl. 310-358.000.

Ando, Eiji: *See—*
  Yoshino, Kuniaki; Ando, Eiji; Miyazaki, Jinsei; and Morimoto, Kazuhisa, 4,686,169, Cl. 430-339.000.

Ando, Eizi: *See—*
  Hiraiwa, Tadashi; and Ando, Eizi, 4,686,774, Cl. 34-9.000.

Ando Electric Co., Ltd.: *See—*
  Morishita, Mitsuhiro; and Sugimori, Masayasu, 4,697,138, Cl. 324-73.00R.
  Sugimori, Masayasu; and Morishita, Mitsuhiro, 4,713,813, Cl. 371-15.000.

Ando, Fumihiko, to Nippon Hoso Kyokai. Solid state image sensor. 4,710,817, 12-1-87, Cl. 358-213.110.

Ando, Fumitaka; and Takao, Kijima, to Mazda Motor Corporation. Rear suspension system for vehicle. 4,652,002, 3-24-87, Cl. 280-701.000.

Ando, Fumitaka: *See—*
  Kijima, Takao; and Ando, Fumitaka, 4,715,614, Cl. 280-701.000.
  Kijima, Takao; and Ando, Fumitaka, 4,715,515, Cl. 280-701.000.

Ando, Haruhisa: *See—*
  Koike, Norio; Nakai, Masaaki; Ando, Haruhisa; Ozaki, Toshifumi; Ohba, Shinya; Ono, Hideyuki; and Akiyama, Toshiyuki, 4,689,687, Cl. 358-213.240.

Ando, Hideki; and Miki, Takahiro, to Mitsubishi Denki Kabushiki Kaisha. High accuracy digital-to-analog converter having symmetrical current source switching. 4,695,826, 9-22-87, Cl. 340-347.0DA.

Ando, Hideo; and Doi, Akihiko, to Kabushiki Kaisha Toshiba; and Toshiba Automation Equipment Engineering, Ltd. Optical head. 4,641,023, 2-3-87, Cl. 250-216.000.

Ando, Hideo, to Tokyo Shibaura Denki Kabushiki Kaisha. Optical head for a disc reader. 4,650,982, 3-17-87, Cl. 250-201.000.

Ando, Hideo, to Kabushiki Kaisha Toshiba. Optical head for focussing a light beam on an information recording medium. 4,654,515, 3-31-87, Cl. 250-201.0DF.

Ando, Hideo, to Kabushiki Kaisha Toshiba. Optical head. 4,654,516, 3-31-87, Cl. 250-201.000.

Ando, Hideo, to Kabushiki Kaisha Toshiba. Optical head. 4,654,519, 3-31-87, Cl. 250-216.000.

Ando, Hideo, to Kabushiki Kaisha Toshiba. Optical head. 4,656,348, 4-7-87, Cl. 250-201.000.

Ando, Hideo, to Kabushiki Kaisha Toshiba. Optical head for erasing. 4,665,512, 5-12-87, Cl. 369-44.000.

Ando, Hideo; and Doi, Akihiko, to Kabushiki Kaisha Toshiba. Optical system and method for reducing vibration of an objective lens in an optical head assembly of an optical read/write system. 4,684,797, 8-4-87, Cl. 250-201.000.

Ando, Hideo, to Kabushiki Kaisha Toshiba. Optical system for tracing information recording medium with multiple beams. 4,689,781, 8-25-87, Cl. 369-112.000.

Ando, Hideo, to Kabushiki Kaisha Toshiba. Optical system for tracking an information recording medium. 4,694,443, 9-15-87, Cl. 369-46.000.

Ando, Hideo, to Kabushiki Kaisha Toshiba. Optical head. 4,701,604, 10-20-87, Cl. 250-201.000.

Ando, Hideo, to Kabushiki Kaisha Toshiba. Optical head for focusing a light beam on an optical disk. 4,716,283, 12-29-87, Cl. 250-201.000.

Ando, Hirohito; Takada, Zenji; and Shigeta, Yuko, to Dainippon Ink and Chemicals, Inc. Non-bronzing reddish lake pigment. 4,711,674, 12-8-87, Cl. 106-289.000.

Ando, Hirokazu; Fukushima, Kazumasa; Ohmori, Yasuo; and Koyama, Tatsuya, to Oki Electric Industry Co., Ltd. Wire dot-printing head. 4,692,043, 9-8-87, Cl. 400-124.000.

Ando, Hiromi; Endo, Mitsuhiro; and Ono, Yukou, to Tokico Ltd. Pneumatic booster. 4,690,034, 9-1-87, Cl. 91-369.00A.

Ando, Hiromi: *See—*
  Endo, Mitsuhiro; Ando, Hiromi; and Ono, Yukou, 4,671,167, Cl. 91-369.00A.
  Fukasawa, Atsushi; Hosoda, Kenichiro; Miyamoto, Ryoichi; Ando, Hiromi; and Kawaguchi, Shinji, 4,660,163, Cl. 364-724.000.

Ando, Hisashi: *See—*
  Watanabe, Ryuji; Minemura, Tetsuro; Ito, Tetsuo; Ando, Hisashi; Maeda, Yoshihito; Nagai, Masaichi; Shimizu, Seiki; Konno, Kiyoshi; and Kaneko, Toshiki, 4,651,172, Cl. 346-135.100.

Ando, Isao; Tazawa, Hiroaki; Sako, Yuji; Ootsuka, Shigeharu; Mizuno, Yuji; and Ikeda, Kosaku, to Mitsubishi Denki Kabushiki Kaisha. Apparatus for mounting electrical appliance on frame. 4,671,697, 6-9-87, Cl. 403-325.000.

Ando, Katsutoshi; and Eiichi, Nishiura, to Toray Industries, Inc. Smooth nonwoven sheet. 4,656,081, 4-7-87, Cl. 428-233.000.

Ando, Kenji: *See—*
  Nakamura, Takeshi; Matsumoto, Ikuo; and Ando, Kenji, 4,649,310, Cl. 310-321.000.
  Nakamura, Takeshi; Ando, Kenji; and Matsumoto, Ikuo, 4,651,042, Cl. 310-321.000.

Ando, Kunio, to Fuji Photo Optical Co., Ltd. Endoscope apparatus using solid state image pickup device. 4,685,451, 8-11-87, Cl. 128-6.000.

Ando, Makoto, to Minolta Camera Kabushiki Kaisha. Lens Barrel. 4,690,537, 9-1-87, Cl. 354-402.000.

Ando, Makoto; and Miki, Yukio, to Minolta Camera Kabushiki Kaisha. Drive coupling device for optical instruments. 4,711,528, 12-8-87, Cl. 350-257.000.

Ando, Manabu, to NEC Corporation. Static semiconductor memory device. 4,701,889, 10-20-87, Cl. 365-230.000.

Ando, Manabu, to NEC Corporation. Semiconductor memory device with shortened time period of word line selection. 4,707,809, 11-17-87, Cl. 365-189.000.

Ando, Masahiko: *See—*
  Sakakibara, Shiro; Kawamoto, Mutsumi; and Ando, Masahiko, 4,633,736, Cl. 74-689.000.

Ando, Masakazu, to Advantest Corporation. IC test equipment. 4,710,704, 12-1-87, Cl. 324-73.00R.

Ando, Masamoto; Takeuchi, Hiroaki; Yamada, Toyohisa; Yamanaka, Toshihiko; Nakanishi, Nobuyasu; and Noguchi, Noboru, to Aisin Seiki Kabushiki Kaisha; and Toyota Jidosha Kabushiki Kaisha. Hydraulic anti-skid apparatus for automotive vehicles. 4,655,509, 4-7-87, Cl. 303-10.000.

Ando, Masamoto; Takeuchi, Hiroaki; Yamada, Toyohisa; and Yamanaka, Toshihiko, to Aisin Seiki Kabushiki Kaisha; and Toyota Jidosha Kabushiki Kaisha. Hydraulic anti-skid apparatus for automotive vehicles. 4,660,899, 4-28-87, Cl. 303-115.000.

Ando, Masao; and Iwasaki, Akite, to Chisso Engineering Company Ltd. Pipeline heated by a diagonal feeding, band-form, electrical heat-generating apparatus. 4,645,912, 2-24-87, Cl. 219-541.000.

Ando, Masatoshi; Mochizuki, Hiromine; and Saito, Kazuta, to Kanzaki Paper Manufacturing Co., Ltd. Method for preparing a coating composition for use to produce heat-sensitive record material. 4,639,270, 1-27-87, Cl. 106-21.000.

Ando, Mayumi: *See—*
  Uwajima, Takayuki; and Ando, Mayumi, 4,677,062, Cl. 435-68.000.

Ando, Michihiro; Kawajiri, Ryoichi; and Uematsu, Hiroshi, to Dai Nippon Insatsu Kabushiki Kaisha; and Meiji Milk Products Company Limited. Sealed gable top carton having a mouthpiece of one piece molding. 4,669,640, 6-2-87, Cl. 222-541.000.

Ando, Minato; Ito, Masaaki; and Mizuno, Fumio, to NGK Spark Plug Co., Ltd. Dielectric porcelain material. 4,643,985, 2-17-87, Cl. 501-136.000.

Ando, Minato; Ito, Masaaki; and Mizuno, Fumio, to NGK Spark Plug Co., Ltd. Alumina ceramic composition. 4,668,646, 5-26-87, Cl. 501-136.000.

Ando, Mitosi: *See—*

Egami, Tsuneyuki; Saito, Tsutomu; Ando, Mitosi; Hori, Ryuzou; Kamo, Takashi; and Yoshida, Kazunori, 4,636,048, Cl. 250-571.000.

Egami, Tsuneyuki; Saito, Tsutomu; Ando, Mitosi; Hori, Ryuzou; Kamo, Takashi; and Yoshida, Kazunori, 4,682,041, Cl. 250-571.000

Ando, Moritoshi, to Fujitsu Limited. Method and apparatus for visually examining an array of objects disposed in a narrow gap. 4,686,565, 8-11-87, Cl. 358-101.000.

Ando, Naotaka, to Sony Corporation. Digital process and apparatus for convergence correction having adjustment points and correction portions determined by the adjustment point selected. 4,672,275, 6-9-87, Cl. 315-368.000.

Ando, Naotake: *See—*

Watanabe, Haruo; Tajima, Eiichi; Matsunaga, Masaaki; Hirohara, Toshihide; Iinuma, Yoshio; Ando, Naotake; Takahashi, Shigeyuki; and Takahashi, Teruaki, 4,643,526, Cl. 350-332.000.

Ando, Noriyoshi, to Nippondenso Co., Ltd. Photoelectric input apparatus for display system. 4,636,632, 1-13-87, Cl. 250-221.000.

Ando, Noriyoshi; Mikuni, Hajime; Matsunaga, Mitsuru; Horie, Naoki; and Kishigami, Tomohisa, to Nippondenso Co., Ltd. Color video display apparatus for vehicles. 4,682,228, 7-21-87, Cl. 358-161.000.

Ando, Osamu, to Shimadzu Corporation. Wavelength driving device for monochromators. 4,668,092, 5-26-87, Cl. 356-332.000.

Ando, Reigo: *See—*

Yoshimoto, Shin-ichi; Ando, Reigo; Shirai, Takeshi; and Nomura, Hiroshi, 4,674,077, Cl. 369-37.000.

Ando, Ryo: *See—*

Yamamoto, Makoto; Toyama, Tsuyoshi; Harima, Hirokazu; and Ando, Ryo, 4,651,186, Cl. 357-23.800.

Ando, Sadao; and Saito, Satoshi, to Yamatake-Honeywell Co., Ltd. Leaf switch. 4,667,066, 5-19-87, Cl. 200-1.00A.

Ando, Seigo: *See—*

Hosoe, Toshiaki; Ando, Seigo; and Kawase, Yoshihiro, 4,716,366, Cl. 324-207.000.

Yamada, Takeo; Ando, Seigo; and Kawase, Yoshihiro, 4,647,854, Cl. 324-207.000.

Ando, Seiya, to Kabushiki Kaisha Ando Screen Seisakusho. Tensioning apparatus for a wire net in a vibration sieving machine. 4,655,907, 4-7-87, Cl. 209-404.000.

Ando, Shimon, to Kabushiki Kaisya Advance Kaihatsu Kenkyujo. Transmission apparatus. 4,713,985, 12-22-87, Cl. 74-804.000.

Ando, Shinji; Ohtaguro, Masami; Masuda, Takayoshi; and Watanabe, Yoshimoto, to Mitsui Toatsu Chemicals, Inc. Granule containing physiologically-active substance, method for preparing same and use thereof. 4,713,245, 12-15-87, Cl. 424-438.000.

Ando, Shinobu: *See—*

Ohtsuji, Masaru; Itoh, Tomonori; Honda, Takashi; Ando, Shinobu; and Matsui, Kazumi, 4,657,475, Cl. 414-786.000.

Ando, Shiro: *See—*

Nakai, Hiroyasu; Ikeda, Toshio; Ando, Shiro; and Ozutsumi, Kyohei, 4,668,457, Cl. 264-227.000.

Ando, Sumio. Cleaning apparatus for raw material transfer pipe. 4,653,134, 3-31-87, Cl. 15-3.510.

Ando, Takafusa: *See—*

Kawaguchi, Keizo; and Ando, Takafusa, 4,664,711, Cl. 106-23.000.

Ando, Takao: *See—*

Kanno, Akihiko; Muto, Shigeaki; Niimura, Koichi; Ando, Takao; Fujii, Takayoshi; Fujii, Masahiko; Furusho, Takao; and Yoshikumi, Chikao, 4,690,920, Cl. 514-201.000.

Muto, Shigeaki; Ando, Takao; Fujii, Takayoshi; Kanno, Akihiko; Onishi, Yoko; Motokawa, Isamu; Furusho, Takao; and Yoshikumi, Chikao, 4,681,877, Cl. 514-206.000.

Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,637,998, Cl. 514-42.000.

Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,649,133, Cl. 514-42.000.

Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,657,895, Cl. 514-42.000.

Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,663,312, Cl. 514-42.000.

Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,673,669, Cl. 514-42.000.

Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,708,950, Cl. 514-42.000.

Ando, Takehiro; Kimura, Hideo; Oda, Noriyuki; Asai, Takeji; Mochizuki, Ken; Fujihara, Toshihisa; and Maeda, Katsuji, to Sumitomo Metal Industries, Ltd.; and Hitachi Shipbuilding & Engineering Company Limited. Method for cooling blast furnace gas in an heat recovery system. 4,642,127, 2-10-87, Cl. 55-20.000.

Ando, Takeki: *See—*

Kurosawa, Toshiaki; Shima, Seiya; Ando, Takeki; Inaba, Hiromi; Nakashima, Hajime; and Mine, Toshisuke, 4,636,932, Cl. 363-54.000.

Ando, Tetsuya, to Senju Pharmaceutical Co., Ltd. Apparatus for sterilizing contact lenses. 4,707,343, 11-17-87, Cl. 422-300.000.

Ando, Tokiharu: *See—*

Hasegawa, Yonosuke; and Ando, Tokiharu, 4,648,122, Cl. 358-86.000.

Ando, Toshiaki: *See—*

Tanaka, Hiroyoshi; Adachi, Masaaki; Tsuda, Yoshiyuki; Ando, Toshiaki; Nishiwaki, Humitoshi; and Aoyama, Shigeo, 4,715,437, Cl. 165-151.000.

Ando, Toshiharu; and Tsuchihashi, Masaru, to Mitsubishi Denki Kabushiki Kaisha. Epoxy resin composition. 4,638,021, 1-20-87, Cl. 523-457.000.

Ando, Toshiharu; Yasuda, Kazuo; Nogami, Fumio; and Tsuchihashi, Masaru, to Mitsubishi Denki Kabushiki Kaisha. Epoxy resin composition. 4,647,605, 3-3-87, Cl. 523-444.000.

Ando, Toshiharu; Yasuda, Kazuo; Itabashi, Yoshifumi; and Tsuchihashi, Masaru, to Mitsubishi Denki Kabushiki Kaisha. Epoxy resin composition. 4,670,534, 6-2-87, Cl. 528-100.000.

Ando, Toshiharu: *See—*

Itabashi, Yoshifumi; Ando, Toshiharu; Yasuda, Kazuo; and Tsuchihashi, Masaru, 4,652,597, Cl. 523-457.000.

Yasuda, Kazuo; Ando, Toshiharu; and Itabashi, Yoshifumi, 4,677,144, Cl. 523-456.000.

Yasuda, Kazuo; Ando, Toshiharu; Itabashi, Yoshifumi; and Tsuchihashi, Masaru, 4,681,904, Cl. 523-457.000.

Ando, Toshihiko: *See—*

Matsubara, Tetsuyuki; Ito, Norifumi; Iwamoto, Mune; and Ando, Toshihiko, 4,699,976, Cl. 528-501.000.

Ando, Toshinari; Takahashi, Yoshikazu; Nishi, Masataka; Shimamoto, Susumu; Aihara, Katsuzo; and Tada, Naofumi, to Hitachi, Ltd.; and Japan Atomic Energy Research Institute. Aluminum-stabilized superconducting wire. 4,652,697, 3-24-87, Cl. 174-128.00S.

Ando, Toshinori: *See—*

Suda, Shigeyuki; Suzuki, Masayuki; and Ando, Toshinori, 4,657,352, Cl. 350-432.000.

Sueda, Tetsuo; and Ando, Toshinori, 4,698,511, Cl. 250-560.000.

Tateoka, Masamichi; and Ando, Toshinori, 4,674,825, Cl. 350-6.800.

Ando, Toshio; Nishihara, Toshikazu; and Kimura, Akihiro, to Victor Company of Japan, Ltd. Magnetic medium for horizontal magnetization recording and method for making same. 4,711,810, 12-8-87, Cl. 428-336.000.

Ando, Toshio: *See—*

Kimura, Akihiro; Ando, Toshio; Nishihara, Toshikazu; and Ka, Toshio, 4,664,976, Cl. 428-336.000.

Kimura, Akihiro; Ando, Toshio; and Nishihara, Toshikazu, 4,680,218, Cl. 428-195.000.

Ando, Tsuneo; Kasuya, Kazusato; Yasuda, Takeru; and Asada, Yukitoshi, to Aisan Kogyo Kabushiki Kaisha. Electric control apparatus for carburetor. 4,685,434, 8-11-87, Cl. 123-438.000.

Ando, Tsuneo; Kasuya, Kazusato; Asada, Yukitoshi; and Sugimoto, Hironobu, to Aisan Kogyo Kabushiki Kaisha. Electronic air-fuel mixture control system for internal combustion engine. 4,705,002, 11-10-87, Cl. 123-440.000.

Ando, Tsuyoshi; and Okano, Yasunobu, to NEC Corporation. C-MOS logic circuit supplied with narrow width pulses converted from input pulses. 4,670,672, 6-2-87, Cl. 307-443.000.

Ando, Yasuhiko, to Teac Corportion. Rotary to linear converter for use in a flexible magnetic disk drive or the like. 4,697,467, 10-6-87, Cl. 74-89.200.

Ando, Yasunori: *See—*

Suzuki, Yasuo; and Ando, Yasunori, 4,683,149, Cl. 427-38.000.

Ando, Yasuo, to Kabushiki Kaisha Meidensha. Secondary battery having a separator. 4,652,504, 3-24-87, Cl. 429-105.000.

Ando, Yoichi, to Mitsubishi Pencil Co., Ltd. Injector. 4,654,035, 3-31-87, Cl. 604-210.000.

Ando, Yoshio: *See—*

Tanaka, Kanou; Konishi, Motofumi; Ando, Yoshio; Iwaya, Toshio; Kotera, Masahide; Hashimoto, Norio; Sugita, Yasutoshi; Sano, Yoshitaka; and Ono, Satoshi, 4,658,299, Cl. 358-256.000.

Ando, Yujiro; and Kaneko, Shuzo, to Canon Kabushiki Kaisha. Image forming method and apparatus therefor. 4,692,779, 9-8-87, Cl. 346-153.100.

Ando, Yujiro: *See—*

Fujii, Haruo; and Ando, Yujiro, 4,658,275, Cl. 346-154.000.

Fujii, Haruo; Inaba, Yutaka; and Ando, Yujiro, 4,682,880, Cl. 355-4.000.

Inaba, Yutaka; and Ando, Yujiro, 4,683,482, Cl. 346-159.000.

Inaba, Yutaka; and Ando, Yujiro, 4,691,213, Cl. 346-159.000.

Kanbe, Junichiro; Okada, Shinjiro; Takahashi, Tohru; and Ando, Yujiro, 4,682,858, Cl. 350-334.000.

Ohara, Katsunobu; Tanaka, Keiji; Ando, Yujiro; and Moriyama, Inao, 4,675,261, Cl. 430-53.000.

Taniguchi, Osamu; Okada, Shinjiro; and Ando, Yujiro, 4,712,878, Cl. 350-350.00S.

Ando, Yutaka, to Sumitomo Light Metal Industries, Ltd. Foot warmer for use in car. 4,653,729, 3-31-87, Cl. 237-12.30B.

Andoh, Haruo; and Matsumoto, Seiji, to Hitachi Maxell, Ltd.; and Sakai Chemical Industry Co., Ltd. Magnetic recording medium and magnetic particles therefor. 4,693,931, 9-15-87, Cl. 428-328.000.

Andoh, Ikuhiro: *See—*

Miyazawa, Hideo; Andoh, Ikuhiro; Koyama, Hiromichi; and Kobayashi, Mitsuru, 4,714,306, Cl. 439-395.000.

Andoh, Makoto: *See—*

Watanabe, Haruo; Mitsuhida, Noboru; Andoh, Makoto; and Matsumoto, Hakuji, 4,647,532, Cl. 435-28.000.

Andoh, Munesato, to Jidosha Kiki Co., Ltd. Master cylinder. 4,691,519, 9-8-87, Cl. 60-535.000.

Andoh, Naoki: *See—*

Fujiwara, Shuetsu; Andoh, Naoki; and Hosotani, Kenji, 4,684,738, Cl. 549-242.000.

- Andoh, Shizuo: *See—*
  - Shinoda, Tsutae; Miyashita, Yoshinori; Sugimoto, Yoshimi; Sei, Hideo; and Andoh, Shizuo, 4,697,123, Cl. 315-169.400.
  - Yamaguchi, Hisashi; Takahara, Kazuhiro; Gondoh, Hiroyuki; Kawada, Toyoshi; and Andoh, Shizuo, 4,636,789, Cl. 340-805.000.
  - Yoshikawa, Kazuo; Asano, Toru; Yamaguchi, Hisashi; Takizawa, Hideaki; and Andoh, Shizuo, 4,680,430, Cl. 178-19.000.
- Andoh, Takuo: *See—*
  - Ohshima, Tetsuya; Senshu, Hisashi; Matsuyama, Takeshi; Kawagishi, Yoji; Andoh, Takuo; and Kiryu, Takashi, 4,656,113, Cl. 430-137.000.
- Andolfi, Ceasar P.: *See—*
  - DePasquale, John A.; Segalowitz, Ivar R.; and Andolfi, Ceasar P., 4,712,359, Cl. 53-460.000.
- Andonian, Martin D. Cryogenic liquid container. 4,674,289, 6-23-87, Cl. 62-45.000.
- Andorf, Paul; and Jager, Hans, to Carl Freudenberg, Firma. Article of integrally-merged hard and soft polyvinyl chloride. 4,661,396, 4-28-87, Cl. 428-217.000.
- Andorfer, Hermann: *See—*
  - Hahn, Reinhard; and Andorfer, Hermann, 4,684,506, Cl. 420-552.000.
- Andors, Derik K.: *See—*
  - Ferguson, Robert W.; Andors, Derik K.; and Crossman, William W., Jr., 4,646,712, Cl. 126-79.000.
  - Ferguson, Robert W.; Andors, Derik K.; and Reed, E. Smith, Jr., 4,683,868, Cl. 126-193.000.
- Andou, Outaro; and Ikuta, Eishi, to Olympus Optical Co., Ltd. Ultrasonic endoscope. 4,674,515, 6-23-87, Cl. 128-660.000.
- Andover Medical Incorporated: *See—*
  - Robinson, Earl F.; and Bare, Rex O., 4,702,256, Cl. 128-639.000.
- Andra, Bryan K.; Funk, Kent D.; Lang, Clyde J.; and Todd, Philip, to Kansas State University Research Foundation. Cylindrical baler having bale-shape-responsive loading control system. 4,686,820, 8-18-87, Cl. 56-341.000.
- Andra, Hans-Peter: *See—*
  - Andra, Wolfhart; Bayer, Karl; Beyer, Erwin; and Andra, Hans-Peter, 4,687,182, Cl. 254-93.00R.
- Andra, Rainer; and Hofmann, Manfred, to Metzeler Kautschuk GmbH. Elastic engine mount with hydraulic damping. 4,650,168, 3-17-87, Cl. 267-140.100.
- Andra, Rainer, to Metzeler Kautschuk GmbH. Two-chamber motor support with hydraulic damping. 4,693,455, 9-15-87, Cl. 267-140.100.
- Andra, Rainer; and Hofman, Manfred, to Metzeler Kautschuk GmbH. Pretensionable and hydraulically damped mounting element. 4,700,934, 10-20-87, Cl. 267-140.100.
- Andra, Rainer; and Hofmann, Manfred, to Metzeler Kautschuk GmbH. Two-chamber engine mount with hydraulic damping. 4,711,206, 12-8-87, Cl. 123-192.00R.
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- Andrade, Joseph D.: *See—*
  - Benner, Robert E.; Andrade, Joseph D.; Van Wagenen, Richard A.; and Westenskow, Dwayne R., 4,648,714, Cl. 356-301.000.
- Andrade, Juan; Prescher, Guenter; and Samson, Marc, to Degussa Aktiengesellschaft. Process for the preparation of 2-alkyl-1,4-butanedial. 4,675,451, 6-23-87, Cl. 568-486.000.
- Andrade, Juan; and Prescher, Gunter, to Degussa Aktiengesellschaft. Process for the producing 2,5-dimethoxytetrahydrofuran and 2,5-diethoxytetrahydrofuran. 4,680,420, 7-14-87, Cl. 549-476.000.
- Andrade, Juan; Prescher, Gunter; and Kohler, Klaus, to Degussa Aktiengesellschaft. Process for the production of 4-chloro-butanals. 4,691,062, 9-1-87, Cl. 568-495.000.
- Andrade, Juan G.; Prescher, Gunter; and Nagel, Ulrich, to Degussa Aktiengesellschaft. Process for the production of optically active 1-benzyl-3,4-bis-(diphenylphosphino)-pyrrolidine. 4,668,795, 5-26-87, Cl. 548-412.000.
- Andrascek, Ernst; and Hadersbeck, Hans, to Siemens Aktiengesellschaft. Method of producing copper platforms for integrated circuits. 4,652,336, 3-24-87, Cl. 156-652.000.
- Andrasko, John, Jr. Hand rail. 4,653,714, 3-31-87, Cl. 248-251.000.
- Andrasko, John, Jr. Hand rail. 4,700,918, 10-20-87, Cl. 248-251.000.
- Andre Fantasies, Inc.: *See—*
  - Gettinger, Lillian, 4,709,420, Cl. 2-50.000.
- Andre, Guy; Gollin, Robert; and Daloia, Gaetan, to Raymond, A. Cable tie. 4,680,834, 7-21-87, Cl. 24-16.0PB.
- Andre, Jean A., to Societe des Mines et Fonderies de la Vieille Montagne. Process for the leaching of sulphides containing zinc and iron. 4,676,828, 6-30-87, Cl. 75-101.00R.
- Andre, Jean-Daniel; Grossi, Pierre-Jean; Heymes, Alain; and Manzaroli, Giovanni V., to Sanofi. Process for preparing α-hydroxy-acids and compounds obtained by this process. 4,675,419, 6-23-87, Cl. 549-79.000.
- Andre, Jean-Daniel; Grossi, Pierre-Jean; Heymes, Alain; and Manzaroli, Giovanni V., to SANOFI and Industria Chimica Prodotti FRANCIS S.p.A. Process for preparing α-hydroxy-alkanoic acids and compounds obtained by this process. 4,713,485, 12-15-87, Cl. 562-470.000.
- Andre, Jean-Francois: *See—*
  - Abondance, Roger; Corbet, Pierre; Jodelet, Francois; and Andre, Jean-Francois, 4,714,267, Cl. 280-615.000.
- Andre, Jean-Luc; and Fity, Christian, to Lohr S.A. Vehicle wheel support and fastening device. 4,682,922, 7-28-87, Cl. 410-30.000.
- Andre, Jean-Luc: *See—*
  - Fity, Christian; and Andre, Jean-Luc, 4,668,142, Cl. 410-26.000.
- Andre, Wolfram K.; and Wolf, Kurt, to Kurt Wolf & Co. KG. Apparatus for controlling the cooking process in a pressure cooker. 4,682,013, 7-21-87, Cl. 219-497.000.
- Andre, Wolfram K., to Kurt Wolf & Co. KG. System for deriving a measuring signal in a heating system. 4,682,298, 7-21-87, Cl. 364-557.000.
- Andre, Wolfram K.: *See—*
  - Wolf, Kurt; and Andre, Wolfram K., 4,682,012, Cl. 219-490.000.
  - Wolf, Kurt; and Andre, Wolfram K., 4,700,052, Cl. 219-497.000.
- Andrea, Johan; Lubchenko, Eugene; and Bradley, Ralph H., to NAP Consumer Electronics Corp.; and U.S. Philips Corporation. Color picture projection system with a wavelength-selective reflector for filtering out undesired light from a monochrome picture display source. 4,679,069, 7-7-87, Cl. 358-60.000.
- Andrean, Herve: *See—*
  - Junino, Alex; Lang, Gerard; Andrean, Herve; and Cotteret, Jean, 4,692,166, Cl. 8-410.000.
- Andreas, David W.: *See—*
  - Cox, David H.; Andreas, David W.; and Watkins, James D., 4,642,434, Cl. 219-10.55E.
  - Cox, David H.; and Andreas, David W., 4,698,472, Cl. 219-10.55E.
  - Watkins, James D.; and Andreas, David W., 4,691,374, Cl. 383-104.000.
- Andreas Stihl: *See—*
  - Dolata, Hans; Fink, Reinhold; Itzrodt, Gerd; Kelbert, Adam; Ryssel, Siegfried; Wehle, Anton; Wieland, Dieter; and Zerrer, Gerhard, 4,644,658, Cl. 30-381.000.
  - Holderle, Hans; Wolf, Jurgen; Eckhart, Horst; and Vonderau, Werner, 4,711,225, Cl. 123-590.000.
  - Hoppner, Klaus; Tilders, Benno; Wehle, Anton; and Wolf, Gunter, 4,662,071, Cl. 30-381.000.
  - Hoppner, Klaus; and Kiefel, Bernhard, 4,691,681, Cl. 123-556.000.
  - Kottke, Joachim; and Zerrer, Gerhard, 4,690,252, Cl. 188-69.000.
  - Krebs, Gerhard, 4,641,614, Cl. 123-185.0BA.
  - Nickel, Hans; and Wissmann, Michael, 4,635,777, Cl. 192-75.000.
  - Noll, Wilfried; Ehmann, Konrad; Stehle, Hans P.; Dorner, Wolfgang; and Dietzsch, Gunter, 4,635,364, Cl. 30-381.000.
  - Schierling, Roland; Geyer, Werner; Wissmann, Michael; and Nickel, Hans, 4,700,668, Cl. 123-73.00C.
  - Schurr, Volker, 4,683,660, Cl. 30-382.000.
  - Schweitzer, Karl; Nitschmann, Karl; and Dolata, Hans, 4,636,147, Cl. 417-214.000.
  - Wieland, Dieter, 4,678,411, Cl. 417-500.000.
  - Wieland, Dieter; Aly, Abou; and Riess, Hartmut, 4,680,862, Cl. 30-381.000.
  - Wissmann, Michael; and Schliemann, Harald, 4,633,843, Cl. 123-518.000.
  - Wissmann, Michael; Nickel, Hans; and Weber, Jurgen, 4,672,929, Cl. 123-179.00G.
  - Wissmann, Michael; Weber, Jurgen; and Nickel, Hans, 4,709,669, Cl. 123-149.00D.
  - Zerrer, Gerhard, 4,651,421, Cl. 30-347.000.
- Andreasen, David A.; Armstrong, John H.; Buggert, Jerrold E.; Desai, Harshad K.; Baumgardner, Stephen D.; Buckmaster, Kenneth E.; and Hussain, Zubair, to Unisys Corporation. Maintenance subsystem for computer network including power control and remote diagnostic center. 4,695,946, 9-22-87, Cl. 364-200.000.
- Andreasen, David A.; Buggert, Jerrold E.; Desai, Harshad K.; and Hussain, Zubair, to Unisys Corporation. User interface processor for computer network with maintenance and programmable interrupt capability. 4,701,845, 10-20-87, Cl. 364-200.000.
- Andreasen, Norman H. Germination floor systems. 4,698,309, 10-6-87, Cl. 435-302.000.
- Andreason, Chris N.; and Bingham, Michael C. Cigarette extinguisher. 4,660,575, 4-28-87, Cl. 131-256.000.
- Andreasson, Bo C.; Donnerdal, Jan O.; and Aronsson, Tore A., to AB Electrolux. Torque limiting arrangement in an I.C. engine. 4,633,832, 1-6-87, Cl. 123-335.000.
- Andreasson, Bo C.; and Faijersseon, Sven I., to AB Electrolux. Capacitor ignition system. 4,648,375, 3-10-87, Cl. 123-602.000.
- Andreasson, Bo C., to AB Electrolux. Arrangement in a motor saw. 4,653,189, 3-31-87, Cl. 30-382.000.
- Andreasson, Bo C.; Donnerdal, Jan O.; and Strom, Hans I., to AB Electrolux. Arrangement in a motor saw. 4,656,985, 4-14-87, Cl. 123-335.000.
- Andreasson, Bo C.; and Rangert, Bo R., to AB Electrolux. Ignition system with an r.p.m. indicator. 4,692,753, 9-8-87, Cl. 340-671.000.
- Andreasson, Bo C., to AB Electrolux. Magnetic ignition system. 4,706,640, 11-17-87, Cl. 123-651.000.
- Andreasson, Eva M.; Egeli, Finn; Holmberg, Krister A.; Nystrom, Borje; Stridh, Kjell G.; and Osterberg, Eva M., to Berol Kemi AB; and Tendex Kjemiservice A/S. Acidizing method using microemulsion. 4,650,000, 3-17-87, Cl. 166-307.000.
- Andreasson, Jan, to Skandiafabriken AB. Liquid level gauge. 4,641,523, 2-10-87, Cl. 73-313.000.
- Andreasson, Kurt, to Video-Proof AB. Method of documentating an inventory, and a sealing mechanism for use therewith. 4,682,249, 7-21-87, Cl. 360-33.100.
- Andreasson, Olof I. Chain net. 4,673,015, 6-16-87, Cl. 152-231.000.
- Andreatti, Evo, Jr.; and Krufka, Frank S., to RCA Corporation. Auxiliary focusing circuit for automatic focusing camera. 4,635,124, 1-6-87, Cl. 358-227.000.

Andree, Hans: *See—*

Seiter, Wolfgang; Andree, Hans; and Berg, Markus, 4,675,124, Cl. 252-91.000.

Weber, Rudolf; Pochandke, Winfried; Andree, Hans; and Anzinger, Hermann, 4,634,544, Cl. 252-99.000.

Andrei-Alexandru, Marcel; Kofink, Wolfgang; and Prohaska, Hans, to SWF Auto-Electric GmbH. Drive unit for adjusting window panes, sunroofs, seats and similar motor vehicle parts. 4,652,781, 3-24-87, Cl. 310-83.000.

Andrei-Alexandru, Marcel; Kofink, Wolfgang; Schmid, Eckhardt; and Tietz, Volker, to SWF Auto-Electric GmbH. Adjusting device, especially for locking and unlocking motor vehicle doors. 4,698,560, 10-6-87, Cl. 318-54.000.

Andreichuk, Gregory, to Celotex Corporation, The. Mine stopping caulk. 4,687,790, 8-18-87, Cl. 523-130.000.

Andrejasich, Raymond J.; and Kidd, Roy E., to Fmhart Industries, Inc. Fluid detection system. 4,646,069, 2-24-87, Cl. 340-603.000.

Andrejeski, Gary J.: *See—*

Fruechte, Kevin M.; Andrejeski, Gary J.; and Braatz, Robert E., 4,648,427, Cl. 137-826.000.

Andrejkovics, Richard S. Enhanced point detonation backup mechanism for fuze. 4,633,780, 1-6-87, Cl. 102-274.000.

Andren, Carl F.; and Olaker, David A., to Harris Corporation. Spread spectrum correlator for recovering CCSK data from a PN spread MSK waveform. 4,707,839, 11-17-87, Cl. 375-1.000.

Andres, Jose M.: *See—*

Ryzin, Joseph V.; Andres, Jose M.; Jensen, Dale; and Ruggieri, Robert, 4,662,904, Cl. 55-158.000.

Andres, Kathleen. Shoe polishing kit. 4,706,807, 11-17-87, Cl. 206-229.000.

Andres, Rudolf; Moller, Hermann; and Seel, Holger, to Daimler-Benz Aktiengesellschaft. Adjustable back support for motor vehicles. 4,699,424, 10-13-87, Cl. 297-284.000.

Andres, Rudolf; Knoll, Heinz; Petri, Volker; and Pfistner, Harald, to Daimler-Benz Aktiengesellschaft. Triggering arrangement for passenger restraint systems in motor vehicles. 4,700,974, 10-20-87, Cl. 280-806.000.

Andres, Rudolf; Knoll, Heinz; Petri, Volker; and Pfistner, Harald, to Daimler-Benz Aktiengesellschaft. Seat belt system for vehicles. 4,702,492, 10-27-87, Cl. 280-801.000.

Andres, Rudolf: *See—*

Gmeiner, Guenter; Andres, Rudolf; and Seel, Holger, 4,652,768, Cl. 307-10.00R.

Andresen, Brian D., and Fought, Eric R., to Sepragen Corporation. Electrophoresis-mass spectrometry probe. 4,705,616, 11-10-87, Cl. 204-299.00R.

Andresen, Brian D.; and Saxena, Vinit, to Sepragen Corporation. Chromatography column-electrophoresis system. 4,708,782, 11-24-87, Cl. 204-299.00R.

Andresen, Herman J. Contactless controllers sensing displacement along two orthogonal directions by the overlap of a magnet and saturable cores. 4,639,667, 1-27-87, Cl. 324-208.000.

Andress, Harry J., Jr.; and Ashjian, Henry, to Mobil Oil Corporation. Borated reaction products of succinic compounds as lubricant dispersants and antioxidants. 4,652,387, 3-24-87, Cl. 252-49.600.

Andress, Harry J., Jr.; and Ashjian, Henry, to Mobil Oil Corporation. Reaction products of alkenylsuccinic compounds with aromatic amines and lubricant compositions thereof. 4,698,169, 10-6-87, Cl. 252-49.600.

Andrevski, Zygmunt M., to RCA Corporation. Lens-to-prism mounting structure. 4,642,692, 2-10-87, Cl. 358-229.000.

Andrew Corporation: *See—*

Dyott, Richard B., 4,668,264, Cl. 65-3.110.

Dyott, Richard B., 4,669,814, Cl. 350-96.150.

Dyott, Richard B., 4,697,876, Cl. 350-96.290.

Dyott, Richard B., 4,712,866, Cl. 350-96.300.

Saad, Saad M., 4,642,585, Cl. 333-21.00R.

Saad, Saad M., 4,672,334, Cl. 333-21.00A.

Saad, Saad S.; and Knop, Charles M., 4,689,633, Cl. 343-786.000.

Schreiber, Karl R.; and Harwood, Brian K., 4,706,384, Cl. 30-91.200.

Smith, Richard D., 4,654,612, Cl. 333-248.000.

Andrew, Kenneth F.: *See—*

Hirayama, Chikara; and Andrew, Kenneth F., 4,639,639, Cl. 313-639.000.

Andrew, Sydney P.; Doy, Ralph J.; aad Limbach, Antony P. J., to Imperial Chemical Industries plc. Steam reforming hydrocarbons. 4,690,690, 9-1-87, Cl. 48-214.00A.

Andrew, Sydney P. S.; and Jennings, James R., to Imperial Chemical Industries PLC. Catalysts for ammonia synthesis. 4,698,325, 10-6-87, Cl. 502-330.000.

Andrew Wilson Company: *See—*

Robinson, Hugh A., 4,673,091, Cl. 211-184.000.

Andrews, Albert J.: *See—*

Andrews, Joseph J.; and Andrews, Albert J., 4,646,931, Cl. 220-320.000.

Andrews, Arthur S.; and Widmer, David S., to U.S. Philips Corporation. Tube cell for atomic absorption spectrophotometry. 4,708,478, 11-24-87, Cl. 356-244.000.

Andrews, Barry A., to Iowa State University Research Foundation, Inc. Apparatus, methods, and systems for computer information transfer. 4,644,496, 2-17-87, Cl. 364-900.000.

Andrews, Christopher M., to Ciba-Geigy Corporation. Heat-curable epoxide resin compositions. 4,645,818, 2-24-87, Cl. 528-93.000.

Andrews, David H.; Lucht, Philip H.; and Putnam, Leland K., to Robert Bosch Corporation. System and method for a data processing pipeline. 4,646,075, 2-24-87, Cl. 340-747.000.

Andrews, David K.; Benson, Trevor P.; and Smart, Michael W., to Dowty Fuel Systems Limited. Pure-air generator. 4,655,049, 4-7-87, Cl. 62-172.000.

Andrews, David R.; and Gaeta, Federico C. A., to Schering Corporation. Antiglaucoma agents. 4,634,698, 1-6-87, Cl. 514-222.000.

Andrews, Donald R., to Ede, Michael. Vacuum leak detector. 4,635,042, 1-6-87, Cl. 340-605.000.

Andrews, Edward W.; and Schley, Roy A., to General Electric Company. Method and means to eliminate interaction between closely located cathode ray tubes. 4,701,795, 10-20-87, Cl. 358-150.000.

Andrews, Frank P., to Smiths Industries Public Limited Company. Microstrip devices. 4,706,050, 11-10-87, Cl. 333-205.000.

Andrews, George E.; Davis, Paul C.; Farley, Dennis C.; Kravitz, Stanley H.; Meeker, Thrygve R.; Petersen, Owe G.; and Schelling, Arthur W., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Clock recovery and retiming scheme with saw filter phase trimming to achieve desired system phase adjustment. 4,715,049, 12-22-87, Cl. 375-106.000.

Andrews, Herbert K.: *See—*

West, G. Allan; Barnes, William W.; Dumaine, Thomas J.; and Andrews, Herbert K., 4,635,862, Cl. 241-51.000.

Andrews, Howard W., Jr., to AMP Incorporated. Compliant section for circuit board contact elements. 4,655,537, 4-7-87, Cl. 339-221.00R.

Andrews, Howard W., Jr.; Pickles, Charles S., and Taylor, Attalee S., to AMP Incorporated. Connection system for printed circuit boards. 4,715,820, 12-29-87, Cl. 439-59.000.

Andrews, John R., to Fugitt, Cullen Wayne, a part interest. Boat seat bracket. 4,709,648, 12-1-87, Cl. 114-363.000.

Andrews, John R. G.: *See—*

Lees, Jeremy J.; Pryor, Murray H.; and Andrews, John R. G., 4,664,789, Cl. 209-211.000.

Andrews, Joseph J.; and Andrews, Albert J. Reinforced open head drum lid. 4,646,931, 3-3-87, Cl. 220-320.000.

Andrews, Katherine M.: *See—*

Kasner, William H.; Cooper, Martin H.; Swenson, Clark E.; Ciez, Albert P.; and Andrews, Katherine M., 4,683,365, Cl. 219-121.0LC.

Andrews, Kenneth C. Fish tongs. 4,682,803, 7-28-87, Cl. 294-25.000.

Andrews, Kenneth E.; Weingardt, Gary; and Durbin, James L., to A.K.G.S. Collapsible box for trash compacting system. 4,711,390, 12-8-87, Cl. 229-41.00R.

Andrews, LaVern A.; and Moraitis, Dennis, to Hughes Aircraft Company. Two dimension radar system with selectable three dimension target data extraction. 4,649,390, 3-10-87, Cl. 342-140.000.

Andrews, Leonard J.: *See—*

McCollum, Bill C.; Kenyon, Peter T.; and Andrews, Leonard J., 4,648,094, Cl. 372-41.000.

Andrews, Linda S. Curtain-hook assembly. 4,693,291, 9-15-87, Cl. 160-388.000.

Andrews Maclaren Limited: *See—*

Hawkes, Peter C., 4,648,651, Cl. 297-45.000.

Andrews, Mark J., to Gemcor Engineering Corp. Apparatus for lubricating a workpiece. 4,693,646, 9-15-87, Cl. 409-136.000.

Andrews, Mena G., to Combustion Engineering, Inc. Extended life nuclear control rod. 4,652,424, 3-24-87, Cl. 376-333.000.

Andrews, Norwood H., to Norandy, Incorporated. Re-entrant circulating stream jet comminuting and classifying mill. 4,664,319, 5-12-87, Cl. 241-39.000.

Andrews, Richard A.: *See—*

Winker, James A.; Cannon, Patrick J.; West, Mark L.; and Andrews, Richard A., 4,651,956, Cl. 244-99.000.

Andrews, Robert C. Multi-purpose trim and yard receptacle. 4,703,615, 11-3-87, Cl. 56-329.000.

Andrews, Robert C.: *See—*

Huck, Peter M.; Andrews, Robert C.; and Anderson, William B., 4,636,367, Cl. 423-12.000.

Andrews, Robert P., to Westinghouse Electric Corp. Method of making scalable side entry turbine blade roots. 4,692,976, 9-15-87, Cl. 29-156.80B.

Andrews, Robert W.; Himpsl, Francis L.; and Speronello, Barry K., to Engelhard Corporation. Fluid cracking catalyst and method of making same from waste catalyst manufacture fines. 4,699,893, 10-13-87, Cl. 502-68.000.

Andrews, Rodney R.; Ferguson, John H.; Kaiser, Frederick A.; and Coman, William E., to Allied Corporation. Spline anti-backlash device. 4,701,068, 10-20-87, Cl. 403-359.000.

Andrews, Ronnie H.: *See—*

Machado, Octavio J.; Daugherty, David A.; Andrews, Ronnie H.; and Efferding, Larry E., 4,711,758, Cl. 376-272.000.

Andrews, William H., to Comalco Aluminium Limited. Bauxite proppant. 4,713,203, 12-15-87, Cl. 264-117.000.

Andric, Milos D. Portable disposable insect trap. 4,709,504, 12-1-87, Cl. 43-114.000.

Andrich, Patrick J.: *See—*

Dudley, Jerry W.; and Andrich, Patrick J., 4,705,140, Cl. 182-3.000.

Andrich, Wolfgang; and Schilling, Helmut W., to Alcatel N.V. Apparatus for scanning documents in a raster line mode using margin stops. 4,716,300, 12-29-87, Cl. 250-578.000.

Andricos, Constantine, to ITT Corporation. Radar signal phase shifter. 4,652,883, 3-24-87, Cl. 342-372.000.

Andriessen, Wilhelmus: *See—*

Schaeffer, Norbert; Bettinger, Gunter; Goetz, Klaus; Pfefferkorn, Dietmar; Burkle, Ottmar; Schmidts, Kurt; Schneider, Pierre;

  - Wagner, Werner; Wietholter, Dieter; Dietze, Herbert; and Andriessen, Wilhelmus, 4,709,288, Cl. 360-130.210.
- Andrieu, Guy; Blanchard, Jean-Marc; and Sourrouille, Michel, to Compagnie Generale des Matieres Nucleaires (Cogema). Shielded air-tight enclosure equipped for use in emission spectrometry. 4,664,477, 5-12-87, Cl. 356-316.000.
- Andrieu, Jean-Pierre: *See—*
  - Lachaize, Christian; Andrieu, Jean-Pierre; and Chagny, Christian, 4,660,043, Cl. 342-185.000.
- Andrieux, Alain; Trequilly, Yves; and Lavoine, Jean-Claude, to CGEE Alsthom Direction Red, Societe Anonyme. Electronic module that can be plugged into a bus connector. 4,692,841, 9-8-87, Cl. 361-395.000.
- Andriewsky, Miguel S. Extensile beams for flat-shaped weighing-machines. 4,708,217, 11-24-87, Cl. 177-211.000.
- Andriola, Robert; Moore, Donald J.; and Asche, Henning, to Ciba-Geigy Corporation. Multicompartmentalized transdermal patches. 4,666,441, 5-19-87, Cl. 604-897.000.
- Andrist, Dale F.: *See—*
  - Ahern, William P.; Andrist, Dale F.; and Skogerson, Lawrence E., 4,676,987, Cl. 426-41.000.
- Andriussi, Francois, to Promat Industrie. Numerical-control machining center for structural sections. 4,706,373, 11-17-87, Cl. 29-568.000.
- Androff, Joel W.: *See—*
  - Chopko, Robert A.; and Androff, Joel W., 4,688,391, Cl. 62-163.000.
- Andromaque, S.A.: *See—*
  - Poorten, Henri V., 4,708,781, Cl. 204-180.900.
  - Vander Poorten, Henri, 4,695,356, Cl. 204-180.900.
- Andros Analyzers Incorporated: *See—*
  - Parnoff, George K.; and Sultan, Steven L., 4,679,573, Cl. 128-716.000.
  - Passaro, Robert E.; Rogers, Raymond E.; and Griffith, Craig J., 4,687,934, Cl. 250-343.000.
  - Passaro, Robert E.; Williams, Kevin G.; Parnoff, George K.; and Rogers, Raymond E., 4,692,621, Cl. 250-343.000.
- Androsenko, Alexandr P.: *See—*
  - Shaginian, Albert S.; Pevnev, Anatoly A.; Asan-Dzhalalov, Alexei G.; Androsenko, Alexandr P.; Palkin, Leonid N.; and Klimovich, Elena I., 4,650,235, Cl. 294-88.000.
- Andrulis Research Corporation: *See—*
  - Schwartz, Paul; Gill, Devinder S.; and McGrath, Kenneth J., 4,680,308, Cl. 514-492.000.
- Andrus, Bryan: *See—*
  - Kolomayets, George; Ryan, Allen; Nieto, Augustine; and Andrus, Bryan, 4,714,244, Cl. 272-72.000.
  - Pasierb, John J., Jr.; Nieto, Augustine; Andrus, Bryan; Kolomayets, George; Oglesby, Gary; and Ryan, Allen, 4,674,741, Cl. 272-72.000.
- Andrusch, Georg; Baisch, Joachim; Barsuhn, Horst; Wernicke, Friedrich C.; and Wiedmann, Siegfried K., to International Business Machines Corporation. Stability testing of semiconductor memories. 4,713,814, 12-15-87, Cl. 371-21.000.
- Andry, Gordon J., to Fabricated Steel Products, division of Indal Limited. Damping structure. 4,641,732, 2-10-87, Cl. 188-379.000.
- Andryszak, Kenneth R.: *See—*
  - Benn, Raymond C.; Davidson, Jeffrey M.; and Andryszak, Kenneth R., 4,668,312, Cl. 148-410.000.
- Andureau, Joel: *See—*
  - Gloriod, Pierre; Andureau, Joel; and Pellegrini, Maurice, 4,644,044, Cl. 526-272.000.
- Andus Corp.: *See—*
  - Ritchie, Ian T., 4,640,860, Cl. 428-143.000.
  - Ritchie, Ian T.; and Kittler, Wilfred C., 4,710,441, Cl. 430-62.000.
- Aneha, Nobuhiko; and Baba, Shigenori, to Fujitsu Limited. Semiconductor integrated circuit having overlapping circuit cells and method for designing circuit pattern therefor. 4,701,778, 10-20-87, Cl. 357-45.000.
- Anelli, Pietro: *See—*
  - Pasini, Franco; and Anelli, Pietro, 4,688,889, Cl. 350-96.230.
- Anelva Corporation: *See—*
  - Asamaki, Tatsuo; and Kato, Takao, 4,638,209, Cl. 313-359.100.
  - Funaki, Hidefumi, 4,657,819, Cl. 428-458.000.
  - Ino, Yoichi; and Kosuge, Kazuo, 4,652,752, Cl. 250-281.000.
  - Ino, Yoichi, 4,691,160, Cl. 324-71.300.
  - Ino, Yoichi; and Morisako, Isamu, 4,700,069, Cl. 250-292.000.
  - Sekiguchi, Atsushi; and Mito, Hideo, 4,664,747, Cl. 156-643.000.
  - Shiokawa, Yoshiro, 4,639,597, Cl. 250-[illegible]05.000.
  - Shiokawa, Yoshiro, 4,652,753, Cl. 250-281.000.
  - Takahashi, Nobuyuki; Sugimoto, Ryuji; and Shirai, Yasuyuki, 4,643,629, Cl. 414-331.000.
  - Takahashi, Nobuyuki, 4,674,621, Cl. 198-378.000.
  - Tamura, Yoshikazu; and Kitajima, Katsuo, 4,703,190, Cl. 307-2.000.
  - Tsukada, Tsutomu; Ashaishi, Ishao; Koizumi, Tatsunori; and Ikeda, Kouji, 4,655,800, Cl. 55-195.000.
  - Yokokawa, Toshio; and Hirukawa, Yohichi, 4,704,199, Cl. 204-298.000.
- Anemostat Products Division, Dynamics Corp.: *See—*
  - Harris, William J., 4,643,353, Cl. 236-49.000.
- Anes Electronics, Inc.: *See—*
  - Howell, Jack D.; and Glomski, Arthur F., 4,665,379, Cl. 340-63.000.
- Anflo, Kjell S.; and Grabs, Jan W. I., to U.S. Philips Corporation. HF arrangement. 4,682,178, 7-21-87, Cl. 342-202.000.
- Ang, Peter G. P.; and Sammells, Anthony F., to PA Ang, Peter G. Means and method for reducing carbon dioxide to a product. 4,673,473, 6-16-87, Cl. 204-59.00R.
- Ang, Saw T.; and Curran, Patrick A., to Texas Instruments Incorporated. Passivated dual dielectric gate system and method for fabricating same. 4,707,721, 11-17-87, Cl. 357-54.000.
- Angadjivand, Seyed A.: *See—*
  - Jackson, John; and Angadjivand, Seyed A., 4,654,475, Cl. 174-94.00R.
  - Jackson, John; and Angadjivand, Seyed A., 4,684,481, Cl. 252-510.000.
- Angus, David J., to Karhu Titan Canada Limitee. Hockey glove having a flexible cuff. 4,677,698, 7-7-87, Cl. 2-161.00A.
- Angehrn, Guido; and Utz, Manfred, to Swiss Aluminium Ltd. Vehicle chassis. 4,662,650, 5-5-87, Cl. 280-789.000.
- Angehrn, Jorg A.; and Fischer, Dennis J., to Chevron Research Co. Flexible mud excluder for borehole televiewer. 4,711,122, 12-8-87, Cl. 73-151.000.
- Angehrn, Jorg A.: *See—*
  - Chapman, Carroll W.; and Angehrn, Jorg A., 4,675,610, Cl. 324-366.000.
  - Chapman, Carroll W.; and Angehrn, Jorg A., 4,675,611, Cl. 324-366.000.
  - Chapman, Carroll W.; and Angehrn, Jorg A., 4,677,385, Cl. 324-366.000.
  - Chapman, Carroll W.; and Angehrn, Jorg A., 4,677,386, Cl. 324-366.000.
  - Chapman, Carroll W.; and Angehrn, Jorg A., 4,703,279, Cl. 324-366.000.
  - Chapman, Carroll W.; and Angehrn, Jorg A., 4,714,889, Cl. 324-366.000.
- Angehrn, Peter, to Hoffmann-La Roche Inc. Antibacterial composition. 4,689,227, 8-25-87, Cl. 424-114.000.
- Angel, Anthony L.: *See—*
  - Roberts, Donald L.; Angel, Anthony L.; Clark, Douglas C.; Clearman, Jack F.; and Sink, T. Stephen, 4,638,820, Cl. 131-336.000.
- Angel, Henry R.: *See—*
  - Hennessy, James W.; Angel, Henry R.; and Carlson, Richard A., 4,706,207, Cl. 364-555.000.
- Angelbeck, John J., to Kaman Sciences Corporation. Load bar weighing system. 4,657,096, 4-14-87, Cl. 177-163.000.
- Angelbeck, Rolf; Gesell, Reinhard; Greve, Helmut; and Henke, Ulrich, to Dr. Ing. Rudolf Hell GmbH. Apparatus for isolating offset printing plates and removing intermediate paper layers. 4,667,948, 5-26-87, Cl. 271-98.000.
- Angelchik, Jean P. Peroral apparatus for morbid obesity treatment. 4,648,383, 3-10-87, Cl. 128-1.00R.
- Angele, Eugen; and Drechsel, Ludwig, to Pfaff Industriemaschinen GmbH. Thread clamp for sewing machines. 4,655,152, 4-7-87, Cl. 112-253.000.
- Angele, Eugen: *See—*
  - Achberger, Gottfried; and Angele, Eugen, 4,666,023, Cl. 192-4.00A.
- Angeles, Purita R., to Cooper Industries, Inc. Fiber optic plenum cable. 4,687,294, 8-18-87, Cl. 350-[illegible]6.230.
- Angelety, Albert, Sr. Fishing apparatus. 4,679,346, 7-14-87, Cl. 43-20.000.
- Angeli, Gerald J., to Eastman Kodak Company. Frame number counter for disk film camera. 4,652,105, 3-24-87, Cl. 354-121.000.
- Angelillo, Domenico, to Industrie Magneti Marelli S.r.l. Pneumatic valve for braking systems. 4,712,577, 12-15-87, Cl. 137-270.000.
- Angell, Cyril N. E., to Avon Industrial Polymers Limited. Sight correction attachment for respirators. 4,709,696, 12-1-87, Cl. 128-201.120.
- Angell, Cyril N. E.: *See—*
  - Turtle, Ivan R.; and Angell, Cyril N. E., 4,674,155, Cl. 24-170.000.
- Angell, Eric H.; Aprille, Thomas J.; Azaret, Juan O.; Fang, Rong-Chin; Lee, Byeong G.; Longwell, Brian C.; Sharper, Craig A.; and Spalink, Jan-Dieter, to American Telephone and Telegraph Company, AT&T Bell Laboratories. Digital transmission including add/drop module. 4,716,561, 12-29-87, Cl. 370-55.000.
- Angell, Richard G., Jr., to Union Carbide Corporation. Molding method using fast curing fiber reinforced, low viscosity thermosetting resin. 4,692,291, 9-8-87, Cl. 264-109.000.
- Angell, Thomas M. Electrical box retainer. 4,693,438, 9-15-87, Cl. 248-27.300.
- Angelo, James F., II. Furnace afterburner. 4,635,568, 1-13-87, Cl. 110-214.000.
- Angelov, Georgi; and Shibley, Paul W. M., to Bitumen Development Corporation Limited. De-asphalting heavy crude oil and heavy crude oil/water emulsions. 4,634,520, 1-6-87, Cl. 208-309.000.
- Angenieux-CLB S.A.: *See—*
  - Lauzier, Rene; Rollin, Jean; Choquelle, Jean; Dumas, Gerard; Breat, Francois; Rousson, Maurice; and Defour, Paule, 4,705,286, Cl. 280-281.00R.
- Anger, Bernd R.: *See—*
  - Lloyd, Kenneth O.; Old, Lloyd J.; Karlsson, Karl-Anders; Larson, Goran; Stromberg, Nicklas; Thurin, Jan; Anger, Bernd R.; and Oettgen, Herbert F., 4,678,747, Cl. 435-7.000.
- Anger, Byron H.: *See—*
  - Takeuchi, Seiji; and Anger, Byron H., 4,641,760, Cl. 220-1.00B.
  - Takeuchi, Seiji; and Anger, Byron H., 4,684,026, Cl. 206-522.000.
- Anger, Wilhelm. End piece for the temple of a spectacle frame. 4,652,098, 3-24-87, Cl. 351-123.000.
- Anger, Wilhelm. Temple end piece for a temple of a spectacle frame. 4,684,226, 8-4-87, Cl. 351-123.000.
- Anger, Wilhelm. Rimless spectacles for correction purposes. 4,692,001, 9-8-87, Cl. 351-41.000.
- Anger, Wilhelm. Temple end piece for a temple of a spectacle frame. 4,712,893, 12-15-87, Cl. 351-123.000.

Anger, Wolfgang, to Nitex GmbH. Stamped cushioning piece in the form of an insole or of an insert piece for shoes. 4,674,205, 6-23-87, Cl. 36-44.000.

Anger, Wolfgang. Insole. 4,685,224, 8-11-87, Cl. 36-43.000.

Angerbauer, Rolf; Boberg, Michael; Metzger, Karl G.; and Zeiler, Hans-Joachim, to Bayer Aktiengesellschaft. 7-[2-(2-aminothiazol-4-yl)-2-oximino-acetamido-3-quaternary-ammonium-methyl-3-cephem-4-carboxylates. 4,686,216, 8-11-87, Cl. 514-202.000.

Angerbauer, Rolf, to Bayer Aktiengesellschaft. Process for the preparation of 7-amino-3-(3-formamidopyridinium)methyl-3-cephem-4-carboxylate, and its use for the synthesis of β-lactam antibiotics. 4,709,023, 11-24-87, Cl. 540-224.000.

Angerer, Hermann F.: *See—*
  Brady, Arthur; Kristen, Ulrich; Angerer, Hermann F.; and Regenass, Franz, 4,701,273, Cl. 252-32.500.

Angerer, Reinhold; and Wallner, Felix, to Voest-Alpine Aktiengesellschaft. Method of, and an arrangement for casting metal melt. 4,635,832, 1-13-87, Cl. 222-590.000.

Angermann, Gottfried; and Hiebl, Berthold, to Optyl Eyewear Fashion International Corporation. Goggles with interchangeable lenses. 4,689,838, 9-1-87, Cl. 2-441.000.

Angerstein, Jorg; Wagner, Elmar; and Dermitzakis, Stefanos, to Telefunken Electronic GmbH. Circuit arrangement for actuating semiconductor lasers. 4,674,093, 6-16-87, Cl. 372-38.000.

Angerstein, Jorg; Mutz, Dieter; and Wagner, Elmar, to Telefunken Electronic GmbH. Optical system for providing a collimated light beam. 4,697,880, 10-6-87, Cl. 350-247.000.

Angevine, Philip J.; and Oleck, Stephen M., to Mobil Oil Corporation. Noble metal-containing catalysts. 4,68: 214, 7-28-87, Cl. 502-66.000.

Angevine, Philip J.; Chu, Yung F.; Mitchell, Kenneth M.; Oleck, Stephen M.; Shih, Stuart S.; and Wilson, Robert C., Jr., deceased (by Wilson, Lillian S., executrix), to Mobil Oil Corporation. Simultaneous hydrotreating and dewaxing of petroleum feedstocks. 4,696,732, 9-29-87, Cl. 208-111.000.

Angewandte Digital Elektronik GmbH: *See—*
  Jenning, Michael; and Mackenthun, Holger, 4,697,183, Cl. 340-870.250.
  Kreft, Hans-Diedrich; Jenning, Michael; Mackenthun, Holger; Baik, Thorten; and Niznik, Thomas, 4,698,996, Cl. 73-1.00J.
  Kreft, Hans-Dietrich, 4,652,821, Cl. 324-208.000.

Angi, Donald F.; Savage, Jack W.; and Unterborn, Ralph D., to General Motors Corporation. Brushless blower motor with load proportional cooling for control circuitry. 4,659,951, 4-21-87, Cl. 310-62.000.

Angi, Donald F.; Connors, Kevin G.; Lehnhoff, Richard N.; and Savage, Jack W., to General Motors Corporation. Open-loop brushless motor control system. 4,665,350, 5-12-87, Cl. 318-254.000.

Angio Medical Corporation: *See—*
  Catsimpoolas, Nicholas; McCluer, Robert; Sinn, Robert S.; and Evans, James, 4,710,490, Cl. 514-25.000.

Angiobrade Partners: *See—*
  Luther, Ronald B., 4,650,466, Cl. 604-95.000.

Angiomedics Incorporated: *See—*
  Packard, Brian M.; Parins, David J.; and Rydell, Mark A., 4,646,742, Cl. 128-344.000.

Anglard, Andre: *See—*
  Mace, Guy; Anglard, Andre; and Insa, Andre, 4,685,377, Cl. 89-1.540.

Angleraud, Rene: *See—*
  Malbrancq, Jean-Michel; Bouveret, Elisabeth; and Angleraud, Rene, 4,687,580, Cl. 210-651.000.

Angles, Michel; Hoornaert, Pierre; Audouin, Alain; Roques, Henri; Aurelle, Yves; and Lopez, Louis, to Elf France. Apparatus for separating a phase dispersed by emulsion or by suspension in a continuous phase. 4,650,581, 3-17-87, Cl. 210-398.000.

Anglo Compression, Inc.: *See—*
  Deminski, Richard M., 4,661,050, Cl. 417-454.000.

Angona, Frank A.; and Zemanek, Joseph, Jr., to Mobil Oil Corporation. Shear wave acoustic logging system. 4,649,525, 3-10-87, Cl. 367-31.000.

Angott, Paul G., to Dimmitt, Clifford G. Lamp dimmer casing. 4,654,541, 3-31-87, Cl. 307-147.000.

Angott, Paul G. Lamp dimmer circuit. 4,584,822, 8-4-87, Cl. 307-125.000.

Angott, Paul G. Remote on/off switch circuit. 4,686,380, 8-11-87, Cl. 307-125.000.

Angotti, Carl: *See—*
  Cunningham, Robert L.; Rhodes, Charles R.; Angotti, Carl; and Warner, Paul H., 4,686,439, Cl. 318-335.000.

Angove, Richard D. Highway profile measuring device. 4,697,352, 10-6-87, Cl. 33-523.000.

Angrick, Michael; Trautwein, Ullrich; and Lenz, Kurt, to Kulzer & Co. GmbH. Method for producing orthodontic devices and appliances. 4,656,053, 4-7-87, Cl. 427-53.100.

Angseryd, Jan: *See—*
  Timerdahl, Ake; and Angseryd, Jan, 4,648,839, Cl. 433-77.000.

Angstadt, Howard P., to Sun Refining and Marketing Company. Steam recovery processes employing stable forms of alkylaromatic sulfonates. 4,682,653, 7-28-87, Cl. 166-303.000.

Angstadt, Howard P., to Sun Refining and Marketing Company. Salt-tolerant alkyl aryl sulfonate compositions for use in enhanced oil recovery processes. 4,699,214, 10-13-87, Cl. 166-303.000.

Angstmann, Heinz-Dieter: *See—*
  Streit, Werner; Witt, Linda; Angstmann, Heinz-Dieter; Blanckenhorn, Rolf; and Fikentscher, Rolf, 4,654,043, Cl. 8-189.000.

Angstrom, Hans E., to Engstrom, Nils G., a part interest. Apparatus for dynamometer testing of motor vehicles. 4,669,318, 6-2-87, Cl. 73-862.090.

Angstrom Robotics & Technologies, Inc.: *See—*
  Hopkins, F. Kenneth, 4,642,526, Cl. 315-244.000.

Anguish, Lynne J.: *See—*
  Coggins, Leroy; Murphy, Brian R.; Holmes, Dorothy F.; Anguish, Lynne J.; and Gillespie, James H., 4,683,137, Cl. 424-89.000.

Angus Chemical Company: *See—*
  Coulston, Frederick; and Korte, Friedrich W. A. G. K., 4,663,346, Cl. 514-456.000.
  Young, Vernon V.; and Bright, David R., 4,656,276, Cl. 544-353.000.
  Young, Vernon V.; and Bright, David R., 4,658,028, Cl. 544-353.000.
  Young, Vernon V.; and Bright, David R., 4,661,593, Cl. 544-353.000.

Angus, James E. Load-out construction device. 4,712,664, 12-15-87, Cl. 193-17.000.

Angus, James P.; and Perry, Derick A., to Rolls-Royce plc. Hollow aerofoil blade. 4,685,864, 8-11-87, Cl. 416-229.00R.

Anhalt, John W.; Goodman, David S.; and Selvin, Gerald J., to ITT Corporation. Connector assembly for making multiple connections in a thin space. 4,634,199, 1-6-87, Cl. 339-17.00M.

Anhalt, John W.; and Cabourne, Michael K., to International Telephone and Telegraph Corporation. Insulation displacement connector. 4,641,903, 2-10-87, Cl. 339-99.00R.

Anhegger, Sigmund; and Lehmann, Klaus-Peter, to Ing. H.c.F. Porsche Aktiengesellschaft. Detachable fastening of a decorative strip. 4,656,807, 4-14-87, Cl. 52-718.100.

Anheuser-Busch, Incorporated: *See—*
  Richmond, Donald W.; Clyne, Carl W.; and Holben, Tod M., 4,693,902, Cl. 426-407.000.
  Spargo, William G., 4,693,054, Cl. 53-432.000.

Anic, S.p.A.: *See—*
  Caporossi, Adolfo; and Del Signore, Leonello, 4,695,616, Cl. 526-202.000.
  Dozzi, Giovanni; Della Fortuna, Giorgio; and Cucinella, Salvatore, 4,710,531, Cl. 524-239.000.

Anico Research, Ltd. Inc.: *See—*
  Farago, Steven, 4,686,506, Cl. 340-347.0DD.

Anicon, Inc.: *See—*
  Learn, Arthur J.; and DuBois, Dale R., 4,641,604, Cl. 118-728.000.
  Learn, Arthur J.; and DuBois, Dale R., 4,694,778, Cl. 118-728.000.

Anido, Gary J.: *See—*
  Karbowiak, Antoni E.; and Anido, Gary J., 4,663,748, Cl. 370-89.000.

Anilionis, Algis: *See—*
  Palmer, John L.; and Anilionis, Algis, 4,691,009, Cl. 530-350.000.

Animal Healthcare Products: *See—*
  Dudley, Ralph S., 4,639,246, Cl. 604-158.000.

Anisa Medical, Inc.: *See—*
  Lentz, M. Rigdon, 4,708,713, Cl. 604-5.000.

Anita-Spezialmiederfabrik Dr. Helbig & Co.: *See—*
  Eberl, Tertulin; and Weber-Unger, Georg, 4,681,587, Cl. 623-7.000.

Anitec Image Corporation: *See—*
  Resnick, Bruce M.; and Wexler, Allan J., 4,686,167, Cl. 430-264.000.

Anizan, Paul; Collobert, Daniel; and Massaloux, Dominique. Parallel analog device for the local processing of a bidimensional signal. 4,692,892, 9-8-87, Cl. 364-807.000.

Anjar Co.: *See—*
  Becker, James R.; Wehn, Peter; and Rademacher, Peter, 4,635,936, Cl. 273-67.00R.

Anke, Timm: *See—*
  Schirmer, Ulrich; Karbach, Stefan; Pommer, Ernst-Heinrich; Ammermann, Eberhard; Steglich, Wolfgang; Schwalge, Barbara A. M.; and Anke, Timm, 4,709,078, Cl. 560-060.000.

Anken, Milton: *See—*
  Halbert, Seymour P.; and Anken, Milton, 4,642,285, Cl. 435-7.000.

Anker, Herbert: *See—*
  Poliak, John M.; and Anker, Herbert, 4,641,905, Cl. 339-103.00B.

Ankner, Kjell F.; Brandstrom, Arne E.; Lindberg, Per L.; Nordberg, Mats P.; and Wallmark, Bjorn M. G., to Aktiebolaget Hassle. Substituted 2-pyridinyl benzimidazoles, and their use for inhibiting gastric acid secretion. 4,689,331, 8-25-87, Cl. 514-338.000.

Ankri, David G.; Eastman, Lester F.; and Ku, Walter H., to Cornell Research Foundation, Inc. Ballistic heterojunction bipolar transistor. 4,672,404, 6-9-87, Cl. 357-16.000.

Anma, Masao: *See—*
  Kato, Heizaburou; and Anma, Masao, 4,648,288, Cl. 74-798.000.

Anmin Manufacturing Co., Ltd.: *See—*
  Maekawa, Taijiro; and Fujino, Yukio, 4,637,947, Cl. 428-68.000.

Annacker, Ralph; and Dietl, Joachim, to Telefunken electronic GmbH. Circuit arrangement having clearing transistors for discharging a Darlington stage. 4,695,807, 9-22-87, Cl. 330-310.000.

Annarelli, Dennis C.; and Dominiani, Frank J., Jr., to FMC Corporation. Method of increasing the reactivity of phosphorus pentasulfide. 4,681,964, 7-21-87, Cl. 558-112.000.

Annas, Dulin L., Sr.; and Teague, Richard M., to Anteg, Inc. Feeder bin. 4,697,857, 10-6-87, Cl. 312-306.000.

Annas, Nick S., to Fargo Manufacturing Company, Inc. Guy wire dead end assembly. 4,645,867, 2-24-87, Cl. 174-79.000.

Annecke, Karl-Heinz; and Bredemeier-Klonki, Volker, to ANT Nachrichtentechnik GmbH. Circuit arrangement for testing a digital circuit. 4,641,306, 2-3-87, Cl. 371-25.000.

Annee, Johannes H. J.: *See—*

  Ruyter, Herman P.; and Annee, Johannes H. J., 4,670,613, Cl. 585-240.000.

Annegarn, Marcellinus J. J. C.; and Welles, Petrus W. G., to U.S. Philips Corporation. Television receiver comprising a circuit for sequentially tuning the receiver to different frequencies. 4,636,864, 1-13-87, Cl. 358-191.100.

Annegarn, Marcellinus J. J. C.: *See—*

  Schmitz, Herman J. R.; Annegarn, Marcellinus J. J. C.; and Fekkes, Wilhelmus F., 4,679,083, Cl. 358-147.000.

Anneken, James G. Means of isolating automobile blower intake from engine compartment and exhaust fumes. 4,637,297, 1-20-87, Cl. 98-2.000.

Annello, Joan, to Annello, Paul J. Envelope opener. 4,711,031, 12-8-87, Cl. 30-294.000.

Annello, Paul J.: *See—*

  Annello, Joan, 4,711,031, Cl. 30-294.000.

Annen, Klaus; Laurent, Henry; Hofmeister, Helmut; Wiechert, Rudolf; and Wendt, Hans, to Schering Aktiengesellschaft. 6α-methyl corticoids, their production and use. 4,645,763, 2-24-87, Cl. 514-178.000.

Annen, Klaus; Laurent, Henry; Elger, Walter; Wiechert, Rudolf; Hofmeister, Helmut; and Topert, Michael, to Schering Aktiengesellschaft. 1α,2α-methylene-6-methylene- and 6α-methylpregnenes, their preparation and pharmaceutical use. 4,670,427, 6-2-87, Cl. 514-178.000.

Annen, Klaus; Laurent, Henry; Hofmeister, Helmut; Wiechert, Rudolf; Toepert, Michael; and Wendt, Hans, to Schering Aktiengesellschaft. Novel 6,16-dimethylcorticoids their preparation and use. 4,701,451, 10-20-87, Cl. 514-180.000.

Annen, Klaus: *See—*

  Hofmeister, Helmut; Annen, Klaus; Laurent, Henry; and Wiechert, Rudolf, 4,708,823, Cl. 260-397.400.

Annergren, Goran E.: *See—*

  Molin, Nils L.; Welander, Thomas G.; Hansson, Bengt G.; Andersson, Per-Erik; and Annergren, Goran E., 4,659,471, Cl. 210-603.000.

Annett, Charles E., II. Fish friendly lure. 4,656,775, 4-14-87, Cl. 43-35.000.

Annichini, Andre: *See—*

  Badinier, Christian; Louhichi, Alain; Annichini, Andre; and Dufour, Alain, 4,675,052, Cl. 134-8.000.

Annipajo, Wolfgang; Breuer, Oswald; and Rassmann, Christoph. Cutters for use in mineral mining. 4,637,658, 1-20-87, Cl. 299-79.000.

Annis, Larry D., to Kendall Company, The. Liquid drainage system. 4,659,329, 4-21-87, Cl. 604-180.000.

Annis, Martin: *See—*

  Burstein, Paul; Krieger, Allen; Annis, Martin; and Chase, Richard C., 4,691,332, Cl. 378-7.000.

Anno, Hidero, to Kabushiki Kaisha Toshiba. Radiographic method and apparatus for reducing the effects of scatter in the image. 4,651,002, 3-17-87, Cl. 250-336.100.

Anno, Hiroshi: *See—*

  Fujiwara, Tsutomu; Matsuda, Susumu; Murakami, Keisuke; Ogawa, Izumi; Tago, Mamoru; Aoki, Chihiro; Doi, Masahiro; and Anno, Hiroshi, 4,711,443, Cl. 271-126.000.

Anno, Nobuo, to Honda Giken Kogyo Kabushiki Kaisha. Crankshaft supporting and lubricating structure for multicylinder internal combustion engines. 4,656,983, 4-14-87, Cl. 123-196.00R.

Anno, Nobuo; Iwai, Itsuo; and Kamezaki, Takashi, to Honda Giken Kogyo Kabushiki Kaisha; and Tanaka Machine Industries Co., Ltd. Tensioner device for wrapping connector driving device in internal combustion engine. 4,674,996, 6-23-87, Cl. 474-10.000.

Anno, Nobuo; and Arai, Takeo, to Honda Giken Kogyo Kabushiki Kaisha. Blow-by gas processing arrangement for automotive internal combustion engines. 4,681,068, 7-21-87, Cl. 123-41.860.

Anno, Nobuo; and Arai, Takeo, to Honda Giken Kogyo Kabushiki Kaisha. Closed-deck cylinder block for water-cooled internal combustion engines. 4,686,943, 8-18-87, Cl. 123-41.740.

Anno, Nobuo; and Arai, Takeo, to Honda Giken Kogyo Kabushiki Kaisha. Lubrication oil passage arrangement for water-cooled internal combustion engines. 4,702,204, 10-27-87, Cl. 123-196.0AB.

Anno, Nobuo; and Arai, Takeo, to Honda Giken Kogyo Kabushiki Kaisha. Cylinder block structure for multicylinder internal combustion engines. 4,712,517, 12-15-87, Cl. 123-41.740.

Anno, Nobuo: *See—*

  Arai, Takeo; Anno, Nobuo; Kinoshita, Yusuke; and Kusakabe, Yukio, 4,683,844, Cl. 123-41.740.

Annoot, Ira R. Plug-in geophone case. 4,637,001, 1-13-87, Cl. 367-177.000.

Annulus Technical Industries, Inc.: *See—*

  MacAdam, Donald H., 4,680,433, Cl. 200-16.00D.

Annunziata, Eugene J.; Faress, James M., II; and Stammely, Thomas E., to International Business Machines Corp. Local area network station connector. 4,701,630, 10-20-87, Cl. 307-112.000.

Ano, Shinji: *See—*

  Tsuneki, Takao; Ano, Shinji; Uchida, Takahiko; Imai, Tomoyasu; Okamoto, Masaru; Ohtaka, Hideo; and Murakami, Hiromi, 4,666,609, Cl. 210-701.000.

Anoszko, Thomas J.: *See—*

  Liebmann, John M.; and Anoszko, Thomas J., 4,688,596, Cl. 137-360.000.

Anouar, Driss; and Hamelin, Jean-Francois, to Electricite de France (Service National). Process and installation for the analysis and retrieval of a sampling and interpolation signal. 4,689,759, 8-25-87, Cl. 364-572.000.

Anouilh, Gilbert: *See—*

  Achard, Georges; Anouilh, Gilbert; and Menault, Jacques, 4,707,319, Cl. 264-168.000.

Anquetil, Jacques C. V. Training dummy for combat sports. 4,702,472, 10-27-87, Cl. 272-76.000.

Anquetin, Robert, to USM Corporation. Blind screw anchor. 4,657,456, 4-14-87, Cl. 411-38.000.

Anritsu Corporation: *See—*

  Itaya, Hiroshi; and Saito, Goro, 4,710,702, Cl. 324-79.00R.

  Kashiwagi, Toshihiro, 4,661,995, Cl. 455-183.000.

  Nakatsugawa, Kenji; Katayama, Aiichi; Sekiya, Hitoshi; and Hiratsuka, Shoji, 4,642,519, Cl. 315-1.000.

  Takabayashi, Hitoshi; and Nakamura, Takahiro, 4,660,980, Cl. 356-357.000.

  Yoshizawa, Shigemichi; and Saito, Goro, 4,700,129, Cl. 324-83.00R.

Anritsu Electric Company Limited: *See—*

  Kikuchi, Kunio; Kamada, Fujio; and Osawa, Masao, 4,637,508, Cl. 198-365.000.

  Kosugi, Ken-ichi; Asahara, Yuuji; and Watanabe, Kazumi, 4,653,704, Cl. 242-195.000.

  Motoyama, Hatsuo; and Igawa, Tetsuo, 4,659,999, Cl. 331-2.000.

  Sonobe, Youji; Tamura, Youichi; and Umesaki, Kenichiro, 4,643,572, Cl. 356-334.000.

Ansaldi, Anthony: *See—*

  Winston, Anthony; Ansaldi, Anthony; and Usen, Norman, 4,663,153, Cl. 424-52.000.

Ansaldi, Jean: *See—*

  Guillot, Jean; Raynaud, Jacques; Maree, Michel; Vailiant, Robert; and Ansaldi, Jean, 4,645,139, Cl. 244-3.220.

Ansari, Zahid: *See—*

  Tsui, Cyrus; Chan, Andrew K. L.; Chan, Albert; Fitzpatrick, Mark E.; Ansari, Zahid; and Hughes, Harry, 4,684,830, Cl. 307-465.000.

Anscher, Joseph, to National Molding Corporation. Reversible buckle. 4,677,711, 7-7-87, Cl. 24-200.000.

Ansec Design and Engineering Limited: *See—*

  Hunt, Noel; and Secretan, Michael J. F., 4,688,731, Cl. 241-191.000.

Ansel, Robert E.; and Murray, Kevin P., to DeSoto, Inc. Radiation-curable coatings containing reactive pigment dispersants. 4,673,705, 6-16-87, Cl. 524-850.000.

Ansel, Robert E., to DeSoto, Inc. Soft and tough radiation-curable coatings for fiber optic application. 4,682,851, 7-28-87, Cl. 350-96.340.

Ansel, Robert E.: *See—*

  Schmid, Steven R.; Ansel, Robert E.; and Murray, Kevin P., 4,716,209, Cl. 526-261.000.

  Ukachi, Takashi; Bessho, Keiichi; Kumano, Atsushi; Matsumura, Yoshio; and Ansel, Robert E., 4,683,280, Cl. 528-71.000.

Ansell, Henry G.; and Saunders, Jeffrey H., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Tristate phase-lock loop prevents false lock. 4,712,077, 12-8-87, Cl. 331-25.000.

Anselm, Michael C., to Outboard Marine Corporation. Mounting arrangement for marine propulsion device. 4,666,410, 5-19-87, Cl. 440-61.000.

Anselment, Christoph: *See—*

  Sackmann, Karl H.; and Anselment, Christoph, 4,684,768, Cl. 200-61.430.

Anselmino, Jeffrey; and Slabbekoorn, Scott D., to Whirlpool Corporation. Venturi air vent for dishwasher. 4,709,488, 12-1-87, Cl. 34-235.000.

Anselrode, Lodewijk, to Stork Screens B.V. Electric battery. 4,663,255, 5-5-87, Cl. 429-206.000.

Anselrode, Lodewijk: *See—*

  Vertegaal, Jacobus-Gerardus; and Anselrode, Lodewijk, 4,656,942, Cl. 101-426.000.

Ansite, William K., to Figgie International Inc. Oxygen supply system and device therefor. 4,664,108, 5-12-87, Cl. 128-202.260.

Ansite, William K.: *See—*

  Vicenzi, Reno L.; and Ansite, William K., 4,651,731, Cl. 128-204.250.

Anson Limited: *See—*

  Anderson, Robert W., 4,695,078, Cl. 285-98.000.

Anspach, Jean M. H., to Chicopee. Apparatus for forming fibre webs. 4,706,338, 11-17-87, Cl. 19-105.000.

Anstalt, Almopa: *See—*

  Sulser, Henry, 4,635,301, Cl. 2-69.000.

Anstalt fur Metallbau: *See—*

  Kriekels, Gaston, 4,667,482, Cl. 62-238.600.

Anstalt fur Schliesstechnik: *See—*

  Bardfeld, Rosalia, 4,650,229, Cl. 292-167.000.

Ansteth, John J. Filter head for spin-off filters. 4,637,874, 1-20-87, Cl. 210-232.000.

Anstett Edgar P. Pneumatically operated nailing machine. 4,657,166, 4-14-87, Cl. 227-7.000.

Anstett, Edgar P. Nail guide and positioning means for a nailing machine. 4,706,867, 11-17-87, Cl. 227-130.000.

Anstey, Henry D.; and Viaud, Jean, to Deere & Company. Cylindrical bale-forming press. 4,633,659, 1-6-87, Cl. 56-341.000.

Anstey, Henry D.; Frimml, Roger W.; and Frerich, Josef, to Deere & Company. Mechanism for feeding wrap material into a bale-forming chamber for enveloping a large round table. 4,697,402, 10-6-87, Cl. 53-506.000.

Anstey, Henry D.: *See—*

  Verhulst, Michael J.; and Anstey, Henry D., 4,676,046, Cl. 53-118.000.

  Verhulst, Michael J.; and Anstey, Henry D., 4,677,807, Cl. 53-118.000.

- Anstey, Michael J.: *See—*
  - Brown, David F., and Anstey, Michael J., 4,638,348, Cl. 357-74.000.
- Anstey, Robert A.: *See—*
  - Coffee, Ronald A.; Noakes, Timothy J.; and Anstey, Robert A., 4,634,057, Cl. 239-690.000.
- ANT Nachrichtentechnik GmbH: *See—*
  - Annecke, Karl-Heinz; and Bredemeier-Klonki, Volker, 4,641,306, Cl. 371-25.000.
  - Bergmann, Hans C.; and Musmann, Hans-Georg, 4,651,207, Cl. 358-136.000.
  - Grunsch, Eckhardt, 4,694,240, Cl. 323-285.000.
  - Guttner, Eckhard, 4,713,688, Cl. 358-141.000.
  - Koch, Harry, 4,672,655, Cl. 379-57.000.
  - Marschall, Peter; Schlosser, Ewald; and Vollmer, Hans-Peter, 4,692,926, Cl. 372-46.000.
  - Ohms, Franz, 4,669,023, Cl. 361-56.000.
  - Ohms, Franz, 4,684,827, Cl. 307-413.000.
  - Pfeiffer, Theodor; and Sperlich, Josef, 4,672,656, Cl. 379-58.000.
  - Plantholt, Martin; Eiberger, Berthold; and Schroder, Hartmut, 4,661,839, Cl. 358-12.000.
  - Radermacher, Wilhelm; and Czech, Johannes, 4,701,717, Cl. 330-149.000.
  - Scheuermann, Helmut, 4,716,537, Cl. 364-724.000.
  - Schomers, Josef; Erbele, Kurt; and Bonk, Wernfried, 4,679,121, Cl. 361-413.000.
  - Silverberg, Michael, 4,670,773, Cl. 358-12.000.
  - Sperlich, Josef, 4,644,534, Cl. 370-95.000.
  - Ullman, Wolfgang, 4,649,355, Cl. 333-106.000.
  - Ullmann, Wolfgang; and Gross, Walter, 4,661,999, Cl. 455-328.000.
  - Unger, Hans-Georg, 4,640,574, Cl. 350-96.110.
  - Unger, Hans-Georg, 4,652,076, Cl. 350-96.120.
  - Unger, Hans-Georg, 4,691,991, Cl. 350-96.330.
- Antaki, Patrick R.: *See—*
  - Dias, Donald R.; and Antaki, Patrick R., 4,651,303, Cl. 365-185.000.
- Antal nee Magyar, Zsuzsanna; Beller, Eva; Boross, Laszlo; Daroczi, Ivan; Kalman, Miklos; Suto, Imre; and Szajani, Bela, to Reanal Finomvegyszergyar. Process for the immobilization of compounds comprising nucleophilic groups. 4,670,390, 6-2-87, Cl. 435-180.000.
- Antal, Zsuzsanna: *See—*
  - Tyihak, Erno; Mincsovics, Emil; Zoltan, Sandor; Kemeny, Gabor; Mathuny, Aniko; Szekely, Tibor; Nemeth, Sandor; Antal, Zsuzsanna; and Fater, Zsuzsanna, 4,658,000, Cl. 526-217.000.
- Antchak, John R.: *See—*
  - Bytzek, Klaus K.; and Antchak, John R., 4,698,049, Cl. 474-135.000.
- Antec Systems Limited: *See—*
  - Evans, John M.; and Wise, Colin C., 4,697,593, Cl. 128-634.000.
- Anteg, Inc.: *See—*
  - Annas, Dulin L., Sr.; and Teague, Richard M., 4,697,857, Cl. 312-306.000.
  - Teague, Richard M., 4,658,995, Cl. 223-76.000.
- Antek Instruments, Inc.: *See—*
  - Parks, Robert E., 4,678,756, Cl. 436-123.000.
- Antekeier, Steven A.: *See—*
  - Hawes, Timothy R.; Antekeier, Steven A.; Cryderman, Glenn R.; Munger, David I.; Gould, Leonard A.; and Eklund, Louis E., Jr., 4,706,980, Cl. 280-154.000.
- Antelope Oil Tool & Mfg. Company: *See—*
  - Spikes, Hugh D., 4,651,823, Cl. 166-241.000.
- Antenna Incorporated - Div. of Celwave: *See—*
  - Wassum, Raymond E., 4,694,301, Cl. 343-720.000.
- Antes, Gregor; Halder, Mathis; Fuchs, Paul; and Gehr, Peter, to LGZ Landis & Gyr Zug AG. System for the display and scanning of the contents of a counter equipped with counting wheels. 4,685,138, 8-4-87, Cl. 382-12.000.
- Antesberger, Peter: *See—*
  - Liebel, Werner; Antesberger, Peter; and Einberger, Peter, 4,700,227, Cl. 358-139.000.
- Antezana, Luis F., to Nicholson Manufacturing Corporation. Log-bundling and cutoff apparatus. 4,679,475, 7-14-87, Cl. 83-420.000.
- Anthoine, Philippe: *See—*
  - Aubert, Lucien; Anthoine, Philippe; and Corcuff, Pierre A., 4,670,781, Cl. 356-93.000.
- Anthon, Erik W., to Optical Coating Laboratory, Inc. Surface analyzer and method. 4,659,933, 4-21-87, Cl. 250-372.000.
- Anthon, Erik W., to Optical Coating Laboratory, Inc. Scattermeter using polarized light to distinguish between bulk and surface scatter. 4,668,860, 5-26-87, Cl. 250-225.000.
- Anthonijsz, Edwin M. C., to N.V. Lighttown Constructions. Water bicycle. 4,698,034, 10-6-87, Cl. 440-27.000.
- Anthonsen, Reiner; Sack, Wieland; Trentmann, Heinz; and Wollmer, Hans-Georg, to Felix Scholler Jr. GmbH & Co., KG. Waterproof photographic paper support. 4,645,736, 2-24-87, Cl. 430-538.000.
- Anthonsen, Reiner; Kertesz, Ferencz; Trentmann, Heinz; and Sack, Wieland, to Felix Schoeller Jr. GmbH & Co., KG. Coated photographic base material. 4,663,236, 5-5-87, Cl. 428-482.000.
- Anthonsen, Reiner: *See—*
  - Sack, Wieland; and Anthonsen, Reiner, 4,665,013, Cl. 430-532.000.
- Anthony, Albert J. Oral pack retention system. 4,681,544, 7-21-87, Cl. 433-215.000.
- Anthony, Andrew J., to Combustion Engineering, Inc. Neutron streaming shield for nuclear vessel cavity. 4,650,643, 3-17-87, Cl. 376-288.000.
- Anthony, Blair T.; and Olson, Daniel R., to General Electric Company. Ultraviolet radiation stabilized polymer compositions. 4,636,40 1-13-87, Cl. 427-160.000.
- Anthony, Bruce O., Jr.; Hesse, Thomas M.; and Sheppard, Frank P., to International Business Machines Corporation. Emulator for computer system input-output adapters. 4,707,803, 11-17-87, Cl. 364-900.000.
- Anthony, Bruce O., Jr.; Batalden, Glenn D.; Mitchell, Glen R.; Schlo Phillip C.; and Wells, David K., to International Business Machines Corporation. Composite data-processing system using multiple standalone processing systems. 4,709,328, 11-24-87, Cl. 364-200.000.
- Anthony, Charles, Jr.: *See—*
  - Bremer, Roger E.; Anthony, Charles, Jr.; and Chappel, Raymond M., 4,693,711, Cl. 604-306.000.
- Anthony, Dennis R. Ultraviolet method for making optical composites. 4,707,091, 11-17-87, Cl. 352-47.000.
- Anthony, Eugene M.: *See—*
  - Holoubek, George H.; Anthony, Eugene M.; and Hans, Allan B., 4,666,063, Cl. 222-107.000.
- Anthony, Frank M.; Aldrich, Ralph E.; and Daigneault, Steven M., to Itek Corporation; and Textron Inc. Cooled deformable mirror. 4,657,358, 4-14-87, Cl. 350-610.000.
- Anthony, Jack; Pilstad, Arnold C.; Leblong, Wayne T.; and Kruger, Robert J., to Baxter Travenol Laboratories, Inc. Tissue storage system. 4,714,595, 12-22-87, Cl. 422-294.000.
- Anthony, James R.; and Merrick, David, to Indiana Mills & Manufacturing, Inc. Belt retractor with belt retraction lock. 4,651,946, 3-24-87, Cl. 242-107.200.
- Anthony, James R.; and Lortz, Allan R., to Indiana Mills & Manufacturing, Inc. Harness web adjuster with child restraint seat. 4,660,889, 4-28-87, Cl. 297-467.000.
- Anthony, James R.; and Lortz, Allan R., to Indiana Mills & Manufacturing, Inc. Remote harness web adjuster. 4,679,852, 7-14-87, Cl. 297-464.000.
- Anthony, James R., and Wiseman, Michael A., to Indiana Mills & Manufacturing, Inc. Belt buckle with eject means. 4,692,970, 9-15-87, Cl. 24-642.000.
- Anthony, Jean M., to Tomtec, N.V. Device for performing therapeutic treatments. 4,679,551, 7-14-87, Cl. 128-67.000.
- Anthony, Linda J., to Beckman Instruments, Inc. Split tube centrifuge rotor adapter. 4,692,137, 9-8-87, Cl. 494-85.000.
- Anthony Manufacturing Corp.: *See—*
  - Ray, Charles A., and Walker, Samuel C., 4,637,548, Cl. 239-201.000.
  - Troup, Edward M., deceased; Kendall, Giles A.; Han, Joseph U.; Moralez, Christopher M.; and Gongwer, Calvin A., 4,681,259, Cl. 239-206.000.
- Anthony, Myron L., to Grand Junction Reality Co., Inc. Reduction and disposal of toxic waste. 4,695,448, 9-22-87, Cl. 423-659.000.
- Anthony, Peter L.; and Harvey, Ian J., to Lucas Industries public limited company. Output correction circuit for transducer means. 4,700,143, 10-13-87, Cl. 328-151.000.
- Anthony, Thomas R., to General Electric Company. Insulating glass body with electrical feedthroughs and method of preparation. 4,647,476, 3-3-87, Cl. 427-97.000.
- Anthony, Thomas R., to General Electric Company. Immersion type ISFET. 4,660,063, 4-21-87, Cl. 357-25.000.
- Anthony, Thomas R.; Lindner, Philip A.; and Tucker, Jewell G., to General Electric Company. Self-aligned double grids for vacuum tubes. 4,695,760, 9-22-87, Cl. 313-348.000.
- Anthony, William H.: *See—*
  - Bernstein, Richard; Anthony, William H.; and Lupfer, David A., 4,714,905, Cl. 333-167.000.
- Anthony's Manufacturing Company, Inc.: *See—*
  - Stromquist, Michael E.; and Richardson, Richard J., 4,671,582, Cl. 439-31.000.
  - Stromquist, Michael E., 4,696,078, Cl. 16-301.000.
- Anti-P, Inc.: *See—*
  - Rawlings, Kelly R., 4,708,118, Cl. 123-555.000.
  - Rawlings, Kelly R., 4,711,222, Cl. 123-555.000.
- Antibiotici Cristallizzati Sterili s.r.l.: *See—*
  - Falciani, Marco; and Bonamigo, Roberto, 4,700,838, Cl. 206-438.000.
- Anticich, Leslie B.: *See—*
  - Bialek, Edward J.; and Anticich, Leslie B., 4,683,412, Cl. 318-798.000.
- Antikainen, Jorma; Olsoni, Yrjo; and Valimaki, Pentti, to Kone Oy. Continuous operation bulk goods unloader. 4,693,360, 9-15-87, Cl. 198-509.000.
- Antin, Harold: *See—*
  - Chabries, Douglas M.; Christiansen, Richard W.; Lynn, Douglas and Kenworthy, Gary, 4,658,426, Cl. 381-94.000.
- Antin, Mark: *See—*
  - Chabries, Douglas M.; Christiansen, Richard W.; Lynn, Douglas and Kenworthy, Gary, 4,658,426, Cl. 381-94.000.
- Antloga, Kathleen M.: *See—*
  - Ball, Lawrence E.; Griffin, William M.; Antloga, Kathleen M.; and Nemecek, Amy L., 4,653,584, Cl. 166-273.000.
- Antoine, Augustine: *See—*
  - Scholz, Donald T.; and Antoine, Augustine, 4,683,589, Cl. 381-61.000.
- Antolik, Ralph E., III: *See—*
  - Braun, Hilarion; Lush, Linda M.; and Antolik, Ralph E., III, 4,688,047, Cl. 346-1.100.
- Antolik, William J.: *See—*
  - Reina, Leo J.; and Antolik, William J., 4,706,269, Cl. 378-154.000.

- stelini, Adriano; Morigi, Rodolfo; and Saviotti, Giancarlo. Cover, particularly for vehicle seats. 4,712,832, 12-15-87, Cl. 297-180.000.
- ton, Alain, to Alsthom-Atlantique. Process and device for electric winding insulation by impregnation, and stabilized varnish without solvent usable therein. 4,680,222, 7-14-87, Cl. 428-251.000.
- ton, Christian: *See*—
  - Arnoux, Daniel; Genter, Claude; Anton, Christian; and Nascimben, Eric, 4,704,575, Cl. 324-117.00H.
  - Arnoux, Daniel; Genter, Claude; and Anton, Christian, 4,708,422, Cl. 350-96.150.
  - Arnoux, Daniel; Genter, Claude; Anton, Christian; and Forme, Jacques, 4,716,412, Cl. 340-753.000.
- ton Cramer GmbH & Co.: *See*—
  - Backmann, Reinhard, 4,649,842, Cl. 112-266.100.
- ton, Octavian; Crichton, Robert; and Lenders, Jean-Pierre, to Redco N.V. Immobilized enzymes, processes for preparing same, and use thereof. 4,683,203, 7-28-87, Cl. 435-94.000.
- ton, Octavian; Jacobs, Pierre; Poncelet, Georges; and Jacques, Philippe, to Redco N.V. Amorphous silica particles, a method for producing same, and catalyst thereof. 4,689,315, 8-25-87, Cl. 502-241.000.
- ton Piller GmbH & Co. KG: *See*—
  - Sachs, Klaus, 4,670,833, Cl. 363-132.000.
  - Sachs, Klaus, 4,674,021, Cl. 363-56.000.
  - Sachs, Klaus, 4,684,825, Cl. 307-328.000.
  - von Sothen, Heinrich F.; and Visser, Leendert, 4,661,660, Cl. 191-12.20A.
- ton Steinecker Maschinenfabrik GmbH: *See*—
  - Baur, Rolf; and Gruber, Bernhard, 4,708,797, Cl. 210-330.000.
  - Widhopf, Martin, 4,681,066, Cl. 122-234.000.
- tone, Wayne L., II; and Finnell, Dennis C. Wall outlet cover plate ssembly. 4,711,634, 12-8-87, Cl. 439-136.000.
- tonelli, Douglas C.; Branscomb, Patricia M.; Broockman, Eric C.; Dickson, LeRoy D.; Koppel, Caralee P.; Ossowski, Richard; and Stokes, Olen L., Jr., to International Business Machines Corporation. Method of inhibiting processing of duplicative coded label signals. 4,713,785, 12-15-87, Cl. 364-569.000.
- tonia Resta Meccanica S.d.f. di Resta Mario e Berardi: *See*—
  - Resta, Rodolfo; Resta, Mario; and Resta, Roberto, 4,669,405, Cl. 112-121.140.
- tonicelli, Marc: *See*—
  - Metz, Pierre; and Antonicelli, Marc, 4,712,747, Cl. 244-3.220.
- tonides, John E. Portable boat ramp for small watercraft. 4,696,250, 9-29-87, Cl. 114-343.000.
- tonini, Bruno; Borghese, Camillo; D'Amico, Arnaldo; DeGasperis, Paolo; Paoletti, Antonio; Paroli, Paolo; Petrocco, Giovanni; Tucciarone, Aldo; and Scarinci, Fernando, to Consiglio Nazionale Delle Ricerche. Thermistor-bolometer and method for the manufacture thereof. 4,640,629, 2-3-87, Cl. 374-178.000.
- tonio, Christo: *See*—
  - Prawdzik, John; Maxim, Norman F.; Lane, William C.; and Antonio, Christo, 4,689,102, Cl. 156-235.000.
- tonio, Joseph M.: *See*—
  - Armer, Leon N., Jr.; Antonio, Joseph M.; Roth, Craig A.; and VerWeire, James R., 4,684,137, Cl. 273-428.000.
  - Armer, Leon N., Jr.; Antonio, Joseph M.; Roth, Craig A.; and VerWeire, James R., 4,690,061, Cl. 102-401.000.
- tonio Puig, S.A.: *See*—
  - Marzabal Martinez, Carlos, 4,638,918, Cl. 215-295.000.
- tonious, Anthony J. Golf club head. 4,655,459, 4-7-87, Cl. 273-171.000.
- tonious, Anthony J. Rotatable club holder insert for a golf bag. 4,709,814, 12-1-87, Cl. 206-315.300.
- tonson-Avery AB: *See*—
  - Hultman, Bo-Goran, 4,652,863, Cl. 340-551.000.
- tos, John M.; and Selina, John R., to Thetford Corporation. Tank fill assist. 4,703,785, 11-3-87, Cl. 141-326.000.
- tos, John M.; and Selina, John R., to Thetford Corporation. Portable toilet with valve actuating handle that automatically locks the valve in closed position during emptying of the holding tank. 4,712,255, 12-15-87, Cl. 4-323.000.
- tos, John M.: *See*—
  - Sargent, Charles L.; Antos, John M.; Hoffman, John A.; and Cameron, John T., 4,641,383, Cl. 4-323.000.
- tos, Ronald L.: *See*—
  - Yip, Kwok-Leung; Antos, Ronald L.; and Herloski, Robert P., 4,686,542, Cl. 346-108.000.
- toszewski, Richard S.; Sciulli, Frank J.; Taft, Jeffrey D.; and Clements, Jack W., to Westinghouse Electric Corp. Vision system with environmental control. 4,652,133, 3-24-87, Cl. 356-376.000.
- toszewski, Richard S., to Westinghouse Electric Corp. Robotic part presentation system. 4,667,805, 5-26-87, Cl. 198-345.000.
- toszewski, Richard S.; Falise, F. Ronald; Sciulli, Francis J.; and Toto, Gregory M., to Westinghouse Electric Corp. Windshield sertion system for a vehicle on a moving conveyor apparatus. 4,670,974, 6-9-87, Cl. 29-701.000.
- toszewski, Richard S.; and Soroka, Daniel P., to Westinghouse Electric Corp. Robotic wrist. 4,684,312, 8-4-87, Cl. 414-735.000.
- trim, Richard L.: *See*—
  - Lloyd, Norman E.; Antrim, Richard L.; and Johnson, Richard A., 4,663,288, Cl. 435-234.000.
- tsena, Irene B.: *See*—
  - Bremanis, Gunar A.; Kalvinsh, Ivars Y.; Antsena, Irene B.; Lukevits, Edmund Y.; Veveris, Maris M.; Erenshtein, Marina L.; Mikazhan, Valdis D.; Kauss, Valeryans Y.; Liepinsh, Edvard E.; and Trapentsier, Petr T., 4,704,403, Cl. 514-554.000.
- Anttila, Arjo; Paloposki, Risto; and Kroger, Keijo, to Valmet Oy. Apparatus for handling unitary loads. 4,655,669, 4-7-87, Cl. 414-458.000.
- Anttila, Einar; and Folgero, Kare, to ASEA Aktiebolag. Casting line melt supply device. 4,708,192, 11-24-87, Cl. 164-323.000.
- Anttonen, Kauko K.: *See*—
  - Reunamaki, Pauli T.; Yli-Vakkuri, Erkki P. J.; and Anttonen, Kauko K., 4,695,821, Cl. 338-316.000.
  - Reunamaki, Pauli T.; Yli-Vakkuri, Erkki P. J.; and Anttonen, Kauko K., 4,712,086, Cl. 338-315.000.
- Anzai, Hideyuki: *See*—
  - Yamauchi, Yasuhisa; Asano, Masao; Anzai, Hideyuki; and Yasufuku, Yoshitaka, 4,710,427, Cl. 428-407.000.
- Anzai, Hisatugu: *See*—
  - Atsumi, Haruyuki; Anzai, Hisatugu; and Kasahara, Noboru, 4,715,146, Cl. 49-1.000.
  - Katagiri, Fujio; Atsumi, Haruyuki; Anzai, Hisatugu; and Kasahara, Noboru, 4,656,690, Cl. 16-48.500.
- Anzai, Katsushi; Harada, Osamu; Suematsu, Toshio; and Takeda, Yuji, to Toyota Jidosha Kabushiki Kaisha. Method and apparatus for controlling air-fuel ratio in internal combustion engine. 4,712,522, 12-15-87, Cl. 123-179.00L.
- Anzai, Katsushi: *See*—
  - Harada, Osamu; Suematsu, Toshio; Takeda, Yuji; and Anzai, Katsushi, 4,640,251, Cl. 123-425.000.
  - Harada, Osamu; Takeda, Yuji; Suematsu, Toshio; Anzai, Katsushi; and Funato, Kazuhiko, 4,708,113, Cl. 123-425.000.
  - Takeda, Yuji; Anzai, Katsushi; Harada, Osamu; and Suematsu, Toshio, 4,655,186, Cl. 123-480.000.
  - Takeda, Yuji; Suematsu, Toshio; Harada, Osamu; and Anzai, Katsushi, 4,664,086, Cl. 123-489.000.
  - Takeda, Yuji; Anzai, Katsushi; Harada, Osamu; and Suematsu, Toshio, 4,688,534, Cl. 123-339.000.
- Anzai, Kazuhiro: *See*—
  - Shimura, Masatoshi; Yokoyama, Kunio; Anbo, Kuniaki; and Anzai, Kazuhiro, 4,652,937, Cl. 358-286.000.
- Anzai, Kazuo: *See*—
  - Iwase, Nobuo; Anzai, Kazuo; Shinozaki, Kazuo; Tsuge, Akihiko; Saitoh, Kazutaka; Iyogi, Kiyoshi; Sato, Noboru; and Kasori, Mitsuo, 4,659,611, Cl. 428-209.000.
  - Kasori, Mituo; Shinozaki, Kazuo; Anzai, Kazuo; and Takano, Takeshi, 4,698,320, Cl. 501-96.000.
- Anzai, Norio: *See*—
  - Yasuoka, Hideki; Tanizaki, Yasunobu; Muramatsu, Akira; and Anzai, Norio, 4,662,057, Cl. 29-571.000.
- Anzai, Satoru: *See*—
  - Shimizu, Hisayuki; Anzai, Satoru; Tanaka, Hiroshi; and Suwa, Kyoichi, 4,666,273, Cl. 353-101.000.
- Anzai, Shunju; Miwa, Yoshihira; and Okuda, Masakiyo, to Sharp Kabushiki Kaisha. Document copying system. 4,688,924, 8-25-87, Cl. 355-3.0SH.
- Anzai, Shunju; Sasaki, Hiromu; Kunikawa, Norihide; and Ohgita, Kazuyuki, to Sharp Kabushiki Kaisha. Document size detection apparatus. 4,713,550, 12-15-87, Cl. 250-560.000.
- Anzai, Shunju: *See*—
  - Fujiwara, Katsuyoshi; and Anzai, Shunju, 4,714,945, Cl. 355-69.000.
- Anzai, Toshio, to Mitsubishi Denki Kabushiki Kaisha. Protective relay for an electric power system including decision-making computer means. 4,689,710, 8-25-87, Cl. 361-87.000.
- Anze, Kimio: *See*—
  - Tajima, Shoji; Kadomatsu, Yasuo; Miyazaki, Yoshio; Sakurai, Michikazu; and Anze, Kimio, 4,707,382, Cl. 427-58.000.
- Anzinger, Hermann; Fischer, Herbert; Herold, Claus-Peter; and Zoellner, Wolfgang, to Henkel Kommanditgesellschaft auf Aktien. Pour point depressants comprising polyolefins modified with side chains. 4,668,733, 5-26-87, Cl. 524-572.000.
- Anzinger, Hermann: *See*—
  - Weber, Rudolf; Pochandke, Winfried; Andree, Hans; and Anzinger, Hermann, 4,634,544, Cl. 252-99.000.
- Anzini, David J.: *See*—
  - Shedd, Charles D.; and Anzini, David J., 4,696,967, Cl. 524-437.000.
- Anzola, Michel; Lefevre, Daniel; and Massicot, Patrick, to Commissariat a l'Energie Atomique. Apparatus and installation for producing an electrolytic metallic deposit of constant thickness. 4,659,447, 4-21-87, Cl. 204-212.000.
- Anzola, Michel; Lefevre, Daniel; Massicot, Patrick; Pierre, Jacques; and Henry, Antoine, to Commissariat a l'Energie Atomique. Process for the preparation of the surface of uranium or uranium-based alloy parts. 4,673,585, 6-16-87, Cl. 427-6.000.
- Ao, Hideki; Obata, Minoru; and Inui, Jun, to Yoshitomi Pharmaceutical Industries, Ltd. Thiadiazine compounds. 4,678,785, 7-7-87, Cl. 514-222.000.
- Ao, Hideki; Obata, Minoru; Yamanaka, Tsutomu; and Mikashima, Hiroshi, to Yoshitomi Pharmaceutical Industries, Ltd. Oxodiazine compounds and pharmaceutical compositions thereof. 4,713,381, 12-15-87, Cl. 514-222.000.
- AO Medical Products AB: *See*—
  - Ohlson, Carl-Eric; and Behnke, Gunther, 4,679,223, Cl. 378-195.000.
  - Ohlson, Carl-Eric, 4,699,425, Cl. 297-349.000.
- Aoba, Kunihiko: *See*—
  - Tajima, Noriyasu; Aoba, Kunihiko; and Mihara, Hidemi, 4,660,160, Cl. 364-567.000.

- Aoi, Hajime: *See—*
  - Nishiyama, Nobumasa; Aoi, Hajime; Tamura, Takashi; Ouchi, Yasuhide; and Saitou, Makoto, 4,644,424, Cl. 360-65.000.
  - Ouchi, Yasuhide; Aoi, Hajime; Tamura, Takashi; Nakabayashi, Kazuyoshi; and Uchiyama, Takamasa, 4,651,236, Cl. 360-45.000.
- Aoi, Kazuo, to Yamaha Hatsudoki Kabushiki Kaisha. Valve actuating mechanism for internal combustion engine. 4,638,774, 1-27-87, Cl. 123-90.220.
- Aoi, Kazuo; and Tsuchida, Naoki, to Yamaha Hatsudoki Kabushiki Kaisha. Valve arrangement for internal combustion engine. 4,679,532, 7-14-87, Cl. 123-90.220.
- Aoi, Kazuo: *See—*
  - Yoshikawa, Masaaki; and Aoi, Kazuo, 4,651,696, Cl. 123-308.000.
- Aoi, Motojirou: *See—*
  - Hamamoto, Toshikazu; Aoi, Motojirou; Yoshida, Kozaburo; and Toda, Yasuhiko, 4,677,026, Cl. 428-404.000.
- Aoi, Renji: *See—*
  - Okuda, Kiyoshi; and Aoi, Renji, 4,654,206, Cl. 424-480.000.
- Aoi, Shigeru, to Canon Kabushiki Kaisha. Image display device. 4,641,157, 2-3-87, Cl. 346-160.000.
- Aoi, Shigeru, to Canon Kabushiki Kaisha. Image display apparatus capable of starting display of a new image in response to designation thereof prior to completion of display of a previously designated image. 4,647,982, 3-3-87, Cl. 358-296.000.
- Aoi, Shigeru, to Canon Kabushiki Kaisha. Optical information recording-reproducing apparatus in which the relative position of a primary beam and secondary beams on recording medium is varied during recording and reproduction of information. 4,695,992, 9-22-87, Cl. 369-46.000.
- Aoi, Shigeru, to Canon Kabushiki Kaisha. Method and apparatus for recording a continuous spiral information track with different track pitches. 4,700,335, 10-13-87, Cl. 369-44.000.
- Aoi, Tatsuo: *See—*
  - Nagata, Kunio; Aoi, Tatsuo; Iwakiri, Norio; Osumi, Hiroshi; Ogata, Nobuyuki; and Yamane, Norihito, 4,681,994, Cl. 200-16.00B.
- Aoi, Toshiki: *See—*
  - Namba, Kenryo; Asami, Shigeru; Aoi, Toshiki; Takahashi, Kazuo; and Kuroiwa, Akihiko, 4,713,314, Cl. 430-270.000.
- Aoike, Nanjou; Ide, Katsuyuki; Kobayashi, Hisao; and Hamaguchi, Mitsuhiro, to Toshiba Denzai Kabushiki Kaisha. Large size image display apparatus. 4,635,052, 1-6-87, Cl. 340-811.000.
- Aoki, Akio, to Trion Corporation. Baseball glove having finger straps. 4,665,561, 5-19-87, Cl. 2-19.000.
- Aoki, Akio; and Sato, Mitio, to Nissan Motor Company, Limited; and Ichikoh Industries Limited. Extensible and contractible wiper arm assembly for windshield wiper. 4,698,873, 10-13-87, Cl. 15-250.210.
- Aoki, Akira; and Ukigaya, Fumio, to Hitachi Denshi Kabushiki Kaisha. Image distortion correcting apparatus for television camera combining global and local corrections. 4,692,804, 9-8-87, Cl. 358-163.000.
- Aoki, Atsuhito, to Ryobi Ltd. Clutch mechanism for use in fishing reels. 4,697,760, 10-6-87, Cl. 242-220.000.
- Aoki, Atsuhito: *See—*
  - Emura, Masaharu; Uetsuki, Haruo; Aoki, Atsuhito; and Kobayashi, Takehiro, 4,708,303, Cl. 242-218.000.
- Aoki, Chihiro: *See—*
  - Fujiwara, Tsutomu; Matsuda, Susumu; Murakami, Keisuke; Ogawa, Izumi; Tago, Mamoru; Aoki, Chihiro; Doi, Masahiro; and Anno, Hiroshi, 4,711,443, Cl. 271-126.000.
- Aoki Corporation: *See—*
  - Miki, Toshiyuki; Tomioka, Kunio; Sakurai, Terushige; and Nakajima, Masao, 4,653,367, Cl. 83-156.000.
  - Miki, Toshiyuki; Tomioka, Kunio; Nakajima, Masao; and Sakurai, Terushige, 4,681,210, Cl. 198-468.200.
  - Saito, Kenichiro; Kanaoka, Chikao; and Aoyama, Shigeyuki, 4,707,167, Cl. 55-267.000.
- Aoki, Daiichi; Nakamura, Yoshinori; Orimoto, Hiroyuki; and Machida, Kazumi, to Nissei ASB Machine Co., Ltd. Biaxially oriented plastic container with excellent heat-resistance and gas barrier properties. 4,680,208, 7-14-87, Cl. 428-35.000.
- Aoki, Hatsuo: *See—*
  - Kitaura, Yoshihiko; Nakaguchi, Osamu; Hemmi, Keiji; Aratani, Matsuhiko; Takeno, Hidekazu; Okada, Satoshi; Tanaka, Hirokazu; Hashimoto, Masashi; Kuroda, Yoshio; Iguchi, Eiko; Kohsaka, Masanobu; Aoki, Hatsuo; and Imanaka, Hiroshi, 4,666,890, Cl. 514-18.000.
  - Kiyoto, Sumio; Okuhara, Masakuni; Kino, Eiko; Tanaka, Hirokazu; Aoki, Hatsuo; Kohsaka, Masanobu; and Imanaka, Hiroshi, 4,680,178, Cl. 424-122.000.
- Aoki, Hidehiko, to Kabushiki Kaisha Toshiba. Current mirror circuit. 4,654,602, 3-31-87, Cl. 330-257.000.
- Aoki, Hidekazu: *See—*
  - Kimura, Seiichiro; and Aoki, Hidekazu, 4,692,583, Cl. 219-121.00L.
- Aoki, Hidemi: *See—*
  - Inagaki, Tetsuya; Aoki, Hidemi; Aikawa, Hiroyasu; and Takahashi, Masao, 4,707,472, Cl. 514-58.000.
- Aoki, Hideo: *See—*
  - Iizuka, Kenichi; Kitayama, Tooru; Uzuhashi, Hideo; and Aoki, Hideo, 4,709,317, Cl. 363-37.000.
- Aoki, Hideyuki: *See—*
  - Miura, Masakatsu; and Aoki, Hideyuki, 4,711,138, Cl. 74-761.000.
- Aoki, Hiromitsu: *See—*
  - Otsuki, Tatsuo; Shimano, Akio; Aoki, Hiromitsu; and Aoki, Ikuko, 4,712,023, Cl. 307-450.000.
- Aoki, Hiroyuki, to Kabushiki Kaisha Toshiba. Printer control apparatus. 4,655,622, 4-7-87, Cl. 40[illegible]-121.000.
- Aoki, Hiroyuki, to Kabushiki Kaisha Toshiba. Dot interpolation control system. 4,712,185, 12-8-87, Cl. 364-518.000.
- Aoki, Hisao: *See—*
  - Koisuka, Mikio; and Aoki, Hisao, 4,676,304, Cl. 165-146.000.
  - Koisuka, Mikio; and Aoki, Hisao, 4,678,112, Cl. 228-138.000.
- Aoki, Hisashi; Kodera, Kaoru; and Okugawa, Tetsuo, to Casio Computer Co., Ltd.; and Showa Chemical Co., Ltd. Method of using liquid crystal device comprising dichroic dye and liquid crystal device. 4,668,050, 5-26-87, Cl. 350-349.000.
- Aoki, Hisashi: *See—*
  - Fujimura, Koh; and Aoki, Hisashi, 4,647,156, Cl. 350-339.00R.
  - Itoh, Kunio; Okada, Fumio; Yamamoto, Yasushi; and Aoki, Hisashi, 4,707,503, Cl. 522-99.000.
  - Kondow, Kiyohiro; Mihama, Takeshi; Hara, Yasuaki; Aoki, Hisashi; and Hasebe, Nobuyuki, 4,689,384, Cl. 528-15.000.
- Aoki, Ikuko: *See—*
  - Otsuki, Tatsuo; Shimano, Akio; Aoki, Hiromitsu; and Aoki, Ikuko, 4,712,023, Cl. 307-450.000.
- Aoki, Junji; and Kojima, Kennosuke, to Horiba, Ltd. Gas analyzer with means for varying angle of incidence of light on interference filter. 4,662,755, 5-5-87, Cl. 356-414.000.
- Aoki, Kaoru: *See—*
  - Ogawa, Takayuki; Ito, Hideaki; Kimura, Naokazu; Ito, Hayam Tatsumi, Shuhei; Takao, Shoichi; Suzuki, Nitaro; Watanabe, Takashi; Shinano, Kunizo; Kuwabara, Takashi; and Aoki, Kaoru, 4,712,742, Cl. 241-20.000.
- Aoki, Katashi, to Kabushiki Kaisha Aoki Seisakusho. Mold-thickness adjusting apparatus in mold clamping mechanism. 4,645,443, 2-24-87, Cl. 425-150.000.
- Aoki, Katashi. Injection stretching blow molding machine. 4,648,824 3-10-87, Cl. 425-150.000.
- Aoki, Katashi. Rotary type injection molding machine. 4,652,22 3-24-87, Cl. 425-191.000.
- Aoki, Katashi. Mold temperature controlling apparatus. 4,703,912 11-3-87, Cl. 249-81.000.
- Aoki, Katsumichi; Shida, Takafumi; Kanda, Yoichi; Satake, Keigo; Shinkawa, Hiroyasu; and Yamazaki, Shiro, to Kureha Kagaku Kogyo Kabushiki Kaisha. Derivative of tetrahydrobenzothiazole and herbicidal composition containing the same as active ingredient. 4,650,515, 3-17-87, Cl. 71-90.000.
- Aoki, Katsumichi; Shida, Takafumi; Arabori, Hideo; Kumazawa, Satoru; Shimizue, Susumu; Watanave, Takeo; Kanda, Yohichi; Satake, Keigo; Yamazaki, Shiro; Shinkawa, Hiroyasu; and Chida, Tsuneaki, to Kureha Kagaku Kogyo Kabushiki Kaisha. Derivatives of tetrahydrobenzothiazole and herbicidal compositions containing the same as an active ingredient. 4,690,704, 9-1-87, Cl. 71-90.000.
- Aoki, Kazuhisa; Tagishi, Hiroyuki; and Maekawa, Nobuteru, to Matsushita Electric Works, Ltd. Power control system for electrical apparatus. 4,668,908, 5-26-87, Cl. 323-324.000.
- Aoki, Kazumi; and Fujiu, Minoru, to Sanden Corporation. Refrigerating unit for vending machine. 4,712,385, 12-15-87, Cl. 62-333.000.
- Aoki, Kazuo; and Moteki, Tsutomu, to Chisso Corporation. Apparatus for producing organic filler-blended resin compositions. 4,708,623, 11-24-87, Cl. 425-202.000.
- Aoki, Kazuo: *See—*
  - Fukuda, Yutaka; Minagawa, Koji; Nabeshima, Hiroichi; Muneki, Koihiro; Asano, Yoshikatsu; Aoki, Kazuo; and Ishizaka, Yutaka, 4,679,935, Cl. 356-121.000.
  - Motegi, Tsutomu; Aoki, Kazuo; and Kimura, Kazuhiro, 4,687,793, Cl. 523-200.000.
- Aoki, Kei: *See—*
  - Urano, Satoshi; Aoki, Kei; Ito, Takeyasu; Suzuki, Yuji; and Mizuguchi, Ryuzo, 4,666,993, Cl. 525-328.200.
- Aoki, Keiji; and Tanaka, Shinichiro, to Toyota Jidosha Kabushiki Kaisha. Method and apparatus for detecting knocking. 4,675,821, 6-23-87, Cl. 364-431.080.
- Aoki, Keiji: *See—*
  - Matsumoto, Hisashi; Motogami, Yoshikazu; Miyahara, Masahiko; Inoue, Tokuta; Hasegawa, Kohichi; Aoki, Keiji; Ikeda, Shinji; Kawai, Mitsuo; Kobashi, Mamoru; Takata, Mamoru; Nagase, Masaomi; and Hoshiba, Hiroyuki, 4,665,740, Cl. 73-116.000.
- Aoki, Ken-ichi: *See—*
  - Kanda, Noboru; Yokoyama, Kenzou; Aoki, Ken-ichi; Akita, Shinji; Hatanaka, Masayuki; and Oda, Tatsuharu, 4,711,733, Cl. 252-29.000.
- Aoki, Kenji; Takei, Katsumori; Nakamura, Haruo; and Matsushita, Yoshikazu, to Seiko Epson Corporation. Diagonally offset, dielectric anisotropy inversion, liquid crystal, microshutters. 4,671,616, 6-9-87, Cl. 350-331.00R.
- Aoki, Kiyoshi: *See—*
  - Sera, Michitoshi; Watanabe, Mitukazu; and Aoki, Kiyoshi, 4,708,613, Cl. 425-117.000.
- Aoki, Kozo; Ono, Michio; Saito, Naoki; and Umemoto, Makoto, to Fuji Photo Film Co., Ltd. Silver halide color photographic light-sensitive materials. 4,686,177, 8-11-87, Cl. 430-553.000.
- Aoki, Kozo: *See—*
  - Saito, Naoki; Aoki, Kozo; and Yokota, Yukio, 4,690,889, Cl. 430-552.000.
- Aoki, Kyoji: *See—*
  - Iriuchijima, Shinobu; Kobayashi, Hirohiko; Aoki, Kyoji; Oda, Takeshi; Shinoyama, Masayuki; and Nosaka, Yoshifumi, 4,686,296, Cl. 548-544.000.
- Aoki, Masaaki: *See—*
  - Hanamura, Shoji; Aoki, Masaaki; and Masuhara, Toshiaki, 4,710,648, Cl. 307-443.000.

- Aoki, Masahiko, to Nissin Electric Co., Ltd. Apparatus for ion and vapor deposition. 4,662,312, 5-5-87, Cl. 118-688.000.
- Aoki, Masahiro: *See—*
  - Kobayashi, Mineo; Yoshida, Takeshi; Aoki, Masahiro; Okubo, Masao; and Nagayama, Masaaki, 4,659,397, Cl. 148-12.00E.
  - Saito, Kiichi; Aoki, Masahiro; Ikeda, Noriyasu; Miki, Masayoshi; and Nagayama, Masaaki, 4,653,684, Cl. 228-263.150.
- Aoki, Masakazu; Nakagome, Yoshinobu; Horiguchi, Masahi; Ozaki, Toshifumi; Shimohigashi, Katsuhiro; and Ikenaga, Shinichi, to Hitachi, Ltd. Semiconductor memory having charge transfer device voltage amplifier. 4,636,985, 1-13-87, Cl. 365-189.000.
- Aoki, Masakazu; Nakagome, Yoshinobu; Horiguchi, Masashi; Ikenaga, Shinichi; and Shimohigashi, Katsuhiro, to Hitachi, Ltd. Semiconductor memory having multiple level storage structure. 4,661,929, 4-28-87, Cl. 365-189.000.
- Aoki, Masakazu; Horiguchi, Masashi; Nakagome, Yoshinobu; Ikenaga, Shinichi; Shimohigashi, Katsuhiro; Masuhara, Toshiaki; Itoh, Kiyoo; Nakamura, Hideo; and Minato, Osamu, to Hitachi, Ltd. Semiconductor memory for serial data access. 4,701,884, 10-20-87, Cl. 365-189.000.
- Aoki, Masakazu: *See—*
  - Minato, Osamu; Aoki, Masakazu; Yatsuda, Yuji; Takagi, Katsuaki; and Horiguchi, Masashi, 4,653,025, Cl. 365-154.000.
  - Nakagome, Yoshinobu; Aoki, Masakazu; Horiguchi, Masashi; Shimohigashi, Katsuhiro; and Ikenaga, Shinichi, 4,709,350, Cl. 365-45.000.
- Aoki, Masaki: *See—*
  - Kuribayashi, Kiyoshi; Sakai, Masayuki; Monji, Hideto; Aoki, Masaki; Okinaka, Hideyuki; and Torii, Hideo, 4,685,948, Cl. 65-26.000.
- Aoki, Masami: *See—*
  - Okazaki, Kenichi; Morimoto, Kunio; Sawano, Kazumi; and Aoki, Masami, 4,698,755, Cl. 364-519.000.
- Aoki, Masanobu: *See—*
  - Asano, Kazuhiko; Takezoe, Osamu; Yasuda, Yoshinori; Hayashi, Kenji; Aoki, Masanobu; Doi, Yoshio; and Shimata, Makoto, 4,648,918, Cl. 148-439.000.
- Aoki, Masashi: *See—*
  - Abe, Kazunobu; Aoki, Masashi; Rikimaru, Hiroaki; Ito, Takeshi; Hidaka, Kazuhisa; and Segawa, Kayoko, 4,643,984, Cl. 501-134.000.
- Aoki, Masayuki, to Kabushiki Kaisha Toshiba. Induction heat cooking apparatus. 4,638,135, 1-20-87, Cl. 219-10.49R.
- Aoki, Masayuki: *See—*
  - Sekino, Yoshihiro; Aoki, Masayuki; and Hotaka, Nobuhiro, 4,646,221, Cl. 363-41.000.
- Aoki, Matsuyuki: *See—*
  - Inoue, Yoshio; and Aoki, Matsuyuki, 4,684,236, Cl. 355-3.0DD.
- Aoki, Minoru, to Nichiro Kogyo Company, Ltd. Apparatus for stacking small bundles of signatures. 4,657,465, 4-14-87, Cl. 414-31.000.
- Aoki, Minoru, to Ricoh Company, Ltd. Method of automatically adjusting image density in image forming device. 4,707,114, 11-17-87, Cl. 355-14.00D.
- Aoki, Minoru: *See—*
  - Ohtomo, Seiya; Aoki, Minoru; and Kasai, Yoshio, 4,664,615, Cl. 425-215.000.
- Aoki, Mitsuo: *See—*
  - Isoda, Tetsuo; Watanabe, Youichirou; Aoki, Mitsuo; and Nakayama, Nobuhiro, 4,672,016, Cl. 430-108.000.
- Aoki, Motohisa; and Iwanaga, Hironobu, to Mitsubishi Chemical Industries Limited. Method for producing an electrophotographic element. 4,680,246, 7-14-87, Cl. 430-133.000.
- Aoki, Naoki: *See—*
  - Tokunaga, Hiroshi; Soma, Shinobu; Aoki, Naoki; and Kusuda, Tatsufumi, 4,674,860, Cl. 355-3.0TR.
- Aoki, Nobuo; and Kurosawa, Shinichiro, to Kowa Company, Ltd. Thrombin-binding substance and process for its production. 4,638,050, 1-20-87, Cl. 530-413.000.
- Aoki, Nobuo: *See—*
  - Miyoshi, Takahito; Okutu, Toshimitu; Utumi, Masahiro; Fujiyama, Masaaki; and Aoki, Nobuo, 4,670,333, Cl. 428-323.000.
  - Miyoshi, Takahito; Aoki, Nobuo; Yoneyama, Takashi; Kasuga, Akira; Okutu, Toshimitu; Fujiyama, Masaaki; and Okuzawa, Yasutoshi, 4,696,859, Cl. 428-323.000.
- Aoki, Nobuyoshi: *See—*
  - Yoshida, Eiichi; Aoki, Nobuyoshi; Suzuki, Toshimitsu; Hongo, Akira; Ueda, Hideki; and Nakata, Issei, 4,703,609, Cl. 53-431.000.
- Aoki, Norio: *See—*
  - Matsuyama, Shigeru; Kanazaki, Mikio; Aoki, Norio; and Ishii, Akira, 4,709,993, Cl. 350-339.00F.
- Aoki, Osamu: *See—*
  - Nakayama, Hajime; Aoki, Osamu; Nishijima, Shigetoshi; Horiuchi, Haruo; Sugino, Takuya; and Takagi, Shuichi, 4,672,940, Cl. 123-590.000.
- Aoki, Ryoichi: *See—*
  - Ishizuka, Waichi; and Aoki, Ryoichi, 4,678,676, Cl. 426-573.000.
- Aoki, Satoshi: *See—*
  - Mori, Shosuke; Sakurai, Atsushi; Aoki, Satoshi; and Suzuki, Tatsuya, 4,716,526, Cl. 364-200.000.
- Aoki, Seiichi: *See—*
  - Ikeda, Masami; Aoki, Seiichi; Saito, Akio; Inamoto, Tadayoshi; and Yokoi, Katsuyuki, 4,646,110, Cl. 346-140.00R.
  - Matsumoto, Tokio; Aoki, Seiichi; Matsuda, Hiroto; Ikeda, Masami; Matsumoto, Haruyuki; and Saito, Asao, 4,646,105, Cl. 346-1.100.
  - Oba, Hiroki; Aoki, Seiichi; Niinuma, Akira; and Sato, Seiichiro, 4,690,484, Cl. 439-736.000.
- Aoki, Shigeo; Tamamura, Junichi; and Ukai, Yasuhiro, to Hosiden Electronics Co., Ltd. Dot-matrix liquid crystal display. 4,644,338, 2-17-87, Cl. 340-719.000.
- Aoki, Shigeo; Tamamura, Junichi; and Ukai, Yasuhiro, to Hosiden Electronics Co., Ltd. Method of fabricating a thin film transistor array. 4,654,117, 3-31-87, Cl. 156-659.100.
- Aoki, Shigeo; Ugai, Yasuhiro; Miyake, Katsumi; and Okamoto, Kotaro, to Hosiden Electronics Co., Ltd. Forming an opaque metal layer in a liquid crystal display. 4,687,298, 8-18-87, Cl. 350-334.000.
- Aoki, Shigeru: *See—*
  - Miyazawa, Yoshinobu; Ooishi, Noriko; Aoki, Shigeru; and Tashiro, Yasuhisa, 4,667,054, Cl. 562-401.000.
- Aoki, Shinichiro: *See—*
  - Sugiyama, Yoshiyuki; Aoki, Shinichiro; and Morita, Yasuyuki, 4,637,256, Cl. 73-633.000.
- Aoki, Shinji, to Sony Corporation. Time base correction for VTR with variable tape speed. 4,668,998, 5-26-87, Cl. 360-10.300.
- Aoki, Shuichi; Kumagai, Katsuyoshi; Haga, Akihiko; and Ito, Minoru, to Alpine Electronics Inc. Diaphragm for use in electro-acoustic transducer. 4,674,592, 6-23-87, Cl. 181-170.000.
- Aoki, Tadashi; Isobe, Masakazu; and Kuno, Hiroshi, to Kabushiki Kaisha Saginomiya Seisakusho. Reversible four-way valve for reversible refrigerating cycle. 4,644,760, 2-24-87, Cl. 62-324.600.
- Aoki, Tadasi: *See—*
  - Arima, Takahisa; Ninomiya, Susumu; Horikawa, Yuji; and Aoki, Tadasi, 4,708,372, Cl. 285-150.000.
- Aoki, Takao: *See—*
  - Ikeda, Yoshinori; and Aoki, Takao, 4,680,646, Cl. 358-298.000.
- Aoki, Takashi; Miyake, Junichi; and Nishikawa, Masao, to Honda Giken Kogyo Kabushiki Kaisha. Control system for a direct-coupling mechanism in hydraulic power transmission means of a transmission for automotive vehicles. 4,651,593, 3-24-87, Cl. 74-731.000.
- Aoki, Takashi; Sakurai, Yoshimi; and Nishikawa, Masao, to Honda Giken Kogyo Kabushiki Kaisha. Direct-coupling control system for torque converter in automatic transmission for vehicles. 4,662,493, 5-5-87, Cl. 192-0.052.
- Aoki, Takashi; Sato, Yoichi; and Fukuda, Yukihiro, to Honda Giken Kogyo Kabushiki Kaisha. Automatic transmission with anti creep device. 4,686,872, 8-18-87, Cl. 74-869.000.
- Aoki, Takashi; Fukuda, Yukihiro; and Nishikawa, Masao, to Honda Giken Kogyo Kabushiki Kaisha. Hydraulic clutch for motor vehicles, having creep-inhibiting feature. 4,696,383, 9-29-87, Cl. 192-70.120.
- Aoki, Takashi: *See—*
  - Nishikawa, Masao; Aoki, Takashi; Sato, Yoichi; and Yoshizawa, Hiroshi, 4,643,049, Cl. 74-868.000.
  - Nishikawa, Masao; Aoki, Takashi; and Sato, Yoichi, 4,650,047, Cl. 192-3.310.
  - Nishikawa, Masao; Yamaguchi, Kouji; Sakurai, Yoshimi; and Aoki, Takashi, 4,655,330, Cl. 192-3.300.
  - Nishikawa, Masao; Aoki, Takashi; and Sato, Yoichi, 4,660,442, Cl. 74-869.000.
  - Nishikawa, Masao; Sakurai, Yoshimi; and Aoki, Takashi, 4,660,690, Cl. 192-3.310.
  - Nishikawa, Masao; and Aoki, Takashi, 4,680,928, Cl. 60-329.000.
  - Nishikawa, Masao; Aoki, Takashi; Sato, Yoichi; and Fukuda, Yukihiro, 4,688,530, Cl. 123-198.00R.
  - Nishikawa, Masao; Sakurai, Yoshimi; Aoki, Takashi; and Sato, Yoichi, 4,693,347, Cl. 192-3.300.
  - Nishikawa, Masao; Aoki, Takashi; and Sakurai, Yoshimi, 4,706,523, Cl. 74-869.000.
- Aoki, Takeshi: *See—*
  - Sugiyama, Yoshihiko; Nanba, Keizo; Hagiwara, Michiki; Aoki, Takeshi; Iwasaki, Shosuke; and Abiko, Tetsuo, 4,673,551, Cl. 420-535.000.
- Aoki, Tetsuo: *See—*
  - Nakajima, Takayuki; Aoki, Tetsuo; Kobayashi, Katsumi; and Akiyama, Noboru, 4,696,004, Cl. 371-25.000.
  - Nakajima, Takayuki; Aoki, Tetsuo; Kobayashi, Katsumi; and Akiyama, Noboru, 4,701,918, Cl. 371-20.000.
- Aoki, Toshio: *See—*
  - Suzuki, Kouji; Ikeda, Mitsushi; and Aoki, Toshio, 4,700,458, Cl. 437-83.000.
- Aoki, Tsutomu: *See—*
  - Nagata, Wataru; Aoki, Tsutomu; and Nishitani, Yasuhiro, 4,705,852, Cl. 540-301.000.
  - Takada, Reiji; and Aoki, Tsutomu, 4,664,571, Cl. 409-134.000.
- Aoki, Tsuyoshi: *See—*
  - Kubota, Akihiro; Aoki, Tsuyoshi; Ono, Michio; and Sugiura, Kikio, 4,698,660, Cl. 357-70.000.
- Aoki, Yoshiaki; Kayukawa, Naoyuki; Yamazaki, Hatsuo; Ozawa, Yasutomo; and Kitagawa, Hiroki, to Hokkaido University. Device for measuring plasma properties. 4,707,147, 11-17-87, Cl. 374-161.000.
- Aoki, Yoshihisa, to Mitsubishi Rayon Co., Ltd. Flame-retardant polyethylene terephthalate resin composition. 4,666,965, 5-19-87, Cl. 524-114.000.
- Aoki, Yoshio; and Tsukamura, Yoshihiro, to Sony Corporation. Magneto-optical apparatus. 4,639,907, 1-27-87, Cl. 369-45.000.
- Aoki, Yoshiyasu: *See—*
  - Hiratsuka, Kazuya; Sato, Yuichi; Aoki, Yoshiyasu; Yui, Hiroshi; Miyabayashi, Mitsutaka; and Itsubo, Akira, 4,702,977, Cl. 429-194.000.
- Aoki, Yuji; Horiuchi, Hidenaga; Umemoto, Akio; and Miura, Norio, to Kasei Optonix, Ltd. Intensifying screens. 4,696,868, 9-29-87, Cl. 428-690.000.

Aomi, Hideki: *See—*

Okamura, Kazuo; Kitamura, Ikuo; Aomi, Hideki; Koyama, Satoshi; and Tokunaga, Katsushi, 4,668,414, Cl. 252-62.510.

Aono, Akira: *See—*

Ohtani, Takayuki; Isobe, Mitsuo; Aono, Akira; and Urakawa, Nobuaki, 4,697,112, Cl. 307-530.000.

Aono, Katsutoshi: *See—*

Totani, Tetsushi; Shiratori, Osamu; Aono, Katsutoshi; and Uchida, Naomi. 4,658,048, Cl. 556-137.000.

Aono, Koji; Saito, Toshinori; and Okada, Chiharu, to Central Glass Company, Limited. Process of preparing disilane by reduction of hexachlorodisilane. 4,639,361, 1-27-87, Cl. 423-347.000.

Aono, Kunitoshi: *See—*

Mori, Toshiki; Yamada, Haruyasu; Hasegawa, Kenichi; and Aono, Kunitoshi, 4,635,231, Cl. 365-190.000.

Mori, Toshiki; Yamada, Haruyasu; Hasegawa, Kenichi; and Aono, Kunitoshi, 4,635,292, Cl. 382-41.000.

Aono, Masayuki: *See—*

Fujimoto, Yuji; Aono, Masayuki; Takei, Tsutomu; Nakano, Tetuo; and Nakabayashi, Teiji, 4,688,392, Cl. 62-174.000.

Aono, Shunji: *See—*

Ohashi, Nachito; Nagata, Shoji; Nakatsuka, Masashi; Ishizumi, Kikuo; Katsube, Junki; Aono, Shunji; and Sakurama, Teruo, 4,695,580, Cl. 514-412.000.

Aono, Toshiaki; Nakamura, Koichi; Shibata, Takeshi; and Nakamura, Taku, to Fuji Photo Film Co., Ltd. Heat developement dye-transfer process using crosslinked binders with dye mordants. 4,636,455, 1-13-87, Cl. 430-203.000.

Aono, Toshiaki; and Hara, Hiroshi, to Fuji Photo Film Co., Ltd. Heat-developable light-sensitive material used in silver salt transfers. 4,639,407, 1-27-87, Cl. 430-203.000.

Aono, Toshiaki; Sato, Kozo; Mukunoki, Yasuo; and Nakamura, Koichi, to Fuji Photo Film Co., Ltd. Stripping process for forming color image using fluorine surfactant. 4,665,005, 5-12-87, Cl. 430-203.000.

Aono, Toshiaki; and Nakamura, Koichi, to Fuji Photo Film Co., Ltd. Heat developable light-sensitive material with protective layer. 4,704,344, 11-3-87, Cl. 430-203.000.

Aono, Toshiaki; and Hara, Hiroshi, to Fuji Photo Film Co., Ltd. Heat developable photosensitive material. 4,713,319, 12-15-87, Cl. 430-567.000.

Aono, Yasuhiro; and Yonezawa, Yasuo, to Nippon Kogaku K. K. Zoom lens. 4,634,237, 1-6-87, Cl. 350-427.000.

Aono, Yasuhiro, to Nippon Kogaku K. K. Gradient index lens system. 4,639,094, 1-27-87, Cl. 350-413.000.

Aono, Yasuhiro: *See—*

Takahashi, Tomowaki; and Aono, Yasuhiro, 4,699,475, Cl. 350-427.000.

Aonuma, Masashi; Suzuki, Masaaki; Sakakibara, Satoshi; Hibino, Noburo; and Kamada, Koh, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,663,209, 5-5-87, Cl. 428-141.000.

Aonuma, Masashi; Watanabe, Hideomi; Miyoshi, Takahito; and Okita, Tsutomu, to Fuji Photo Film Co., Ltd. Magnetic recording medium and method of preparing. 4,686,149, 8-11-87, Cl. 428-522.000.

Aonuma, Masashi: *See—*

Okita, Tsutomu; Aonuma, Masashi; and Hashimoto, Hiroshi, 4,671,998, Cl. 428-411.100.

Okita, Tsutomu; Hashimoto, Hiroshi; and Aonuma, Masashi, 4,716,077, Cl. 428-328.000.

Aonuma, Mitsuyoshi; Watanabe, Hiroyuki; Kawada, Haruki; Noguchi, Kohkichi; Ueda, Akio; Akita, Shuichi; Ohyama, Tetsuo; and Kase, Toshio, to Nippon Zeon Co., Ltd. Process for modifying conjugated diene polymers. 4,647,625, 3-3-87, Cl. 528-232.000.

Aonuma, Mitsuyoshi; Maeda, Akio; and Seya, Hirokatsu, to Nippon Zeon Co., Ltd. Rubber vulcanizate from alkylene sulfide and epihalohydrin. 4,689,377, 8-25-87, Cl. 525-523.000.

Aonuma, Takahiro; and Konishi, Minoru, to Mazda Motor Corporation. Automobile rear upper structure. 4,634,173, 1-6-87, Cl. 296-188.000.

Aosai, Fumito: *See—*

Nakamoto, Hideo; Aosai, Fumito; Fukushima, Hiroshi; and Suda, Eriko, 4,680,368, Cl. 528-49.000.

Aoshima, Atsushi; Tonomura, Shoichiro; Fukui, Hiroyuki; and Imai, Hisaya, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for producing polyether polyol and a product. 4,658,065, 4-14-87, Cl. 564-487.000.

Aoshima, Atsushi; Komatsu, Tamikuni; and Enoki, Sachio, to Asahi Kasei Kogyo Kabushiki Kaisha. High strength, high modulus polymeric material in continuous length, process for production thereof and device therefor. 4,668,761, 5-26-87, Cl. 528-230.000.

Aoshima, Atsushi; Yamamatsu, Setsuo; and Tonomura, Shoichiro, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for purification of polyether. 4,677,231, 6-30-87, Cl. 568-617.000.

Aoshima, Chikara: *See—*

Nagata, Toru; Aoshima, Chikara; Maeno, Hiroshi; and Tamamura, Hideo, 4,643,549, Cl. 354-64.000.

Aoshima, Kazuyoshi: *See—*

Kato, Kenji; Okada, Yuji; and Aoshima, Kazuyoshi, 4,658,001, Cl. 526-218.100.

Aoshima, Kiyoji: *See—*

Seki, Seiji; and Aoshima, Kiyoji, 4,635,466, Cl. 72-453.130.

Aoshima, Shinichirou: *See—*

Tsuchiya, Yutaka; Aoshima, Shinichirou; and Takeshima, Akira, 4,705,397, Cl. 356-345.000.

Aoshima, Shinji: *See—*

Tomisawa, Norio; Kamiya, Shingo; and Aoshima, Shinji, 4,694,441, Cl. 369-32.000.

Aoshima, Terutaka; Asahi, Morio; Imai, Masahiro; and Narita, Ryuuho, to Kabushiki Kaisha Toshiba. Circuit for controlling and displaying cooking states of a rice cooker. 4,687,910, 8-18-87, Cl. 219-506.000.

Aoshima, Terutaka: *See—*

Asahi, Morio; Aoshima, Terutaka; Narita, Ryuuho; and Imai, Masahiro, 4,644,137, Cl. 219-497.000.

Yamashita, Kiyoshi; Aoshima, Terutaka; Narita, Ryuuho; and Imai, Masahiro, 4,695,710, Cl. 219-506.000.

Aoshima, Toshihisa: *See—*

Sakaibara, Toru; Tsujioka, Shigeo; Kajiura, Toshinori; Aoshima, Toshihisa; and Tonomura, Motonobu, 4,709,231, Cl. 340-729.000.

Aoshima, Yoichi: *See—*

Shimamoto, Hideki; Miyazaki, Yoshio; Aoshima, Yoichi; Tsunetsugu, Tsuyoshi; Nagara, Hisao; Kuwae, Yoshiteru; and Shiono, Kazushi, 4,652,968, Cl. 361-319.000.

Aota, Katsumi: *See—*

Tanabe, Hiroshi; Yamamoto, Etsuo; Togashi, Seigo; Sekiguchi, Kanetaka; Aota, Katsumi; and Sorimachi, Kazuaki, 4,673,253, Cl. 350-339.00F.

Togashi, Seigo; Yamamoto, Etsuo; Aota, Katsumi; Tanabe, Hiroshi; Sekiguchi, Kanetaka; and Sorimachi, Kazuaki, 4,655,552, Cl. 350-342.000.

Aotani, Yoshimasa: *See—*

Kawamura, Kouichi; Aotani, Yoshimasa; Umehara, Akira; and Horie, Seiji, 4,636,459, Cl. 430-288.000.

Takahashi, Hiroshi; Narutomi, Yasuhisa; Aotani, Yoshimasa; and Shiba, Keisuke, 4,642,283, Cl. 430-303.000.

Aotsuka, Yasuo; Konishi, Masahiro; and Takahashi, Koji, to Fuji Photo Film Co., Ltd. Temperature compensation for a semiconductor light source used for exposure of light sensitive material. 4,710,631, 12-1-87, Cl. 250-354.100.

Aoyagi, Hidehito, to NEC Corporation. Synchronization of multichannel receiver based on higher quality channels. 4,677,647, 6-30-87, Cl. 375-97.000.

Aoyagi, Koshiro; Nishino, Taneharu; and Betsuki, Kenji, to Nippon Steel Corporation. Rolling method and apparatus for forming sections having flange. 4,685,319, 8-11-87, Cl. 72-234.000.

Aoyagi, Masaru; and Saitoh, Makoto, to NEC Corporation. Underwater communication system. 4,679,177, 7-7-87, Cl. 367-132.000.

Aoyagi, Minoru: *See—*

Tsuchiya, Satoshi; Aoyagi, Minoru; and Kuniyoshi, Yasunobu, 4,646,161, Cl. 358-29.000.

Aoyagi, Sakae: *See—*

Naito, Kenzo; Tsukamura, Kazuo; and Aoyagi, Sakae, 4,692,519, Cl. 540-227.000.

Aoyagi, Takaaki: *See—*

Umezawa, Hamao; Takeuchi, Tomio; Aoyagi, Takaaki; and Ohuchi, Shokichi, 4,661,495, Cl. 514-275.000.

Umezawa, Hamao; Aoyagi, Takaaki; Takeuchi, Tomio; Hamada, Masa; and Ishizuka, Masaaki, 4,663,342, Cl. 514-423.000.

Aoyagi, Tatsuhiro; and Shinmura, Tetsuya, to Denki Kagaku Kogyo Kabushiki Kaisha. Thermoplastic resin composition. 4,647,622, 3-3-87, Cl. 525-84.000.

Aoyagi, Tatsuhiro: *See—*

Kushida, Yuichiro; Tago, Shigenobu; and Aoyagi, Tatsuhiro, 4,657,974, Cl. 525-73.000.

Aoyagi, Toru: *See—*

Adachi, Toshio; Aoyagi, Toru; Kawaguchi, Akihisa; and Yamanaka, Shigeki, 4,706,419, Cl. 52-65.000.

Aoyagi, Yoshiaki; Okubo, Takashi; Tomita, Toshio; Nishida, Hiroshi; and Enomoto, Hiroshi, to Nippon Shinyaku Co., Ltd. 1-phenoxy-3-(4-phenylpiperidino)-2-propand having both alpha- and beta-adrenergic action. 4,642,307, 2-10-87, Cl. 514-252.000.

Aoyagi, Yoshiaki: *See—*

Enomoto, Hiroshi; Kawamata, Masanobu; Nomura, Akira; Aoyagi, Yoshiaki; and Ueda, Fusao, 4,657,907, Cl. 514-245.000.

Enomoto, Hiroshi; Nomura, Tadatoshi; Aoyagi, Yoshiaki; Chokai, Shoichi; Fujita, Yukio; Kono, Tatsuhiko; Murase, Masao; Inoue, Kichiro; and Adachi, Masahiro, 4,711,898, Cl. 514-312.000.

Aoyagi, Yoshiki; Suzuki, Masatoshi; Inoue, Tadashi; and Tsukakoshi, Kunio, to Mitsubishi Chemical Industries Ltd. Fire-retarding resin composition and laminated product thereof. 4,680,227, 7-14-87, Cl. 428-331.000.

Aoyagi, Yoshiki: *See—*

Shinozaki, Masatoshi; Matsumoto, Yoshihiro; Aoyagi, Yoshiki; and Kojima, Kazuhisa, 4,678,707, Cl. 428-323.000.

Aoyagi, Yoshiro; Kimura, Toshiyuki; Niinuma, Susumu; Yoshioka, Minoru; Yokogawa, Fumihiko; Matsumoto, Keiichi; Haeno, Akira; Sato, Takashi; Nishi, Yoshiro; Watanabe, Yoshihiko; Hirano, Hiroyuki; and Ogawa, Youichi, to Pioneer Electronic Corporation. Automatic loading disc player. 4,701,902, 10-20-87, Cl. 369-77.100.

Aoyama, Akimasa; Moritani, Takeshi; Yonezu, Kiyoshi; Negi, Taichi; and Okaya, Takuji, to Kuraray Co., Ltd. Laminate having good gas barrier properties with barrier layer of modified ethylene-vinyl alcohol copolymer. 4,713,296, 12-15-87, Cl. 428-412.000.

Aoyama, Akimasa: *See—*

Okaya, Takuji; Tanaka, Yoshinari; Yonezu, Kiyoshi; Aoyama, Akimasa; and Moritani, Takeshi. 4,636,551, Cl. 525-60.000.

Aoyama, Fumihiko; Murata, Kazushige; and Hayashi, Masahiro, to Inax Corporation. Apparatus for obtaining drain-cast hollow articles for ceramic ware. 4,664,610, 5-12-87, Cl. 425-84.000.

Aoyama, Hideki: *See—*

Waki, Yusaku; and Aoyama, Hideki, 4,633,976, Cl. 184-6.400.

- Aoyama, Hirokazu: *See—*
  - Fukui, Shosin; Shinjo, Masayoshi; Aoyama, Hirokazu; Okazaki, Yasuko; Enjo, Naonori; and Hayashi, Kazunori. 4,673,712, Cl. 526-253.000.
- Aoyama, Hiroshi: *See—*
  - Ohtani, Tamio; Kanaya, Yasuhiko; Aoyama, Hiroshi; and Nonaka, Nobuyasu. 4,658,494, Cl. 29-568.000.
- Aoyama, Kazuho: *See—*
  - Hara, Hajime; Orii, Shingo; Aoyama, Kazuho; and Enomoto, Masami. 4,639,503, Cl. 528-92.000.
- Aoyama, Kazunori, to Fuji Photo Film Co., Ltd. Magnetic tape cassette with improved guide roller means. 4,640,473, 2-3-87, Cl. 242-197.000.
- Aoyama, Keishi: *See—*
  - Kamei, Noboru; Ikeda, Kinjiro; Aoyama, Keishi, and Hamano, Seitaro. 4,639,294, Cl. 203-88.000.
- Aoyama, Keizo, to Fujitsu Limited. Semiconductor memory device. 4,65[illegible],608, 4-7-87, Cl. 365-190.000.
- Aoyama, Keizo, to Fujitsu Limited. Semiconductor memory device with switching for redundant cells. 4,660,179, 4-21-87, Cl. 365-200.000.
- Aoyama, Keizo, to Fujitsu Limited. Regulated power supply for semiconductor chips with compensation for changes in electrical characteristics or chips and in external power supply. 4,716,307, 12-29-87, Cl. 307-297.000.
- Aoyama, Kohji; and Noguchi, Masaro, to AMP Incorporated. Electrical connector having integral latch means. 4,710,135, 12-1-87, Cl. 439-354.000.
- Aoyama, Masaaki; Itabashi, Mitsuharu; Miura, Mariko; and Kohno, Masahiro, to Special Reference Laboratories, Inc.; and JEOL Ltd. Method for diagnosing cancer using ESR. 4,696,905, 9-29-87, Cl. 436-64.000.
- Aoyama, Masaaki: *See—*
  - Ito, Tokuhisa; Kitamura, Goro; Horiuchi, Hidenori; and Aoyama, Masaaki. 4,650,335, Cl. 356-398.000.
- Aoyama, Masaharu: *See—*
  - Abe, Masahiro; Aoyama, Masaharu; Ajima, Takashi; and Yonezawa, Toshio. 4,636,832, Cl. 357-68.000.
  - Mase, Yasukazu; Abe, Masahiro; and Aoyama, Masaharu. 4,634,496, Cl. 156-643.000.
- Aoyama, Mikio: *See—*
  - Yoshida, Shoji; Haru, Yasuhiko; Kosaka, Etsuji; Ikeda, Toshimichi; Aoyama, Mikio; and Ide, Takeo. 4,691,788, Cl. 175-62.000.
- Aoyama, Mizuki; and Fujiwara, Takuji, to Mazda Motor Corporation. Hydraulic control system for a motor vehicle automatic transmission. 4,688,452, 8-25-87, Cl. 74-869.000.
- Aoyama, Motoo; and Kurihara, Kunitoshi, to Hitachi, Ltd. Fuel assembly. 4,689,195, 8-25-87, Cl. 376-435.000.
- Aoyama, Motoo; Maruyama, Hiromi; Umegaki, Kikuo; and Uchikawa, Sadao, to Hitachi, Ltd. Fuel assembly. 4,695,425, 9-22-87, Cl. 376-435.000.
- Aoyama, Motoo: *See—*
  - Uchikawa, Sadao; and Aoyama, Motoo. 4,652,427, Cl. 376-447.000.
- Aoyama, Naofumi: *See—*
  - Endo, Shyusuke; Aoyama, Naofumi; Yabuuchi, Toshihiko; Sakuma, Toshiyuki; and Kinugawa, Kiyoshige. 4,701,025, Cl. 350-333.000.
  - Endo, Shyusuke; Aoyama, Naofumi; Yabuuchi, Toshihiko; Sakuma, Toshiyuki; and Kinugawa, Kiyoshige. 4,702,560, Cl. 350-333.000.
- Aoyama, Norihito; Miike, Akira; Okano, Mikio; and Tatano, Toshio, to Kyowa Medex Co., Ltd. Method for the determination of bilirubin. 4,683,208, 7-28-87, Cl. 436-12.000.
- Aoyama, Satoshi; and Furukawa, Hiroshi, to Minolta Camera Kabushiki Kaisha. Photoelectric device. 4,657,384, 4-14-87, Cl. 356-43.000.
- Aoyama, Shigeo; and Yamamoto, Yoshinori, to Hitachi Maxell, Ltd. Magnetic recording medium. 4,701,371, 10-20-87, Cl. 428-323.000.
- Aoyama, Shigeo: *See—*
  - Tanaka, Hiroyoshi; Adachi, Masaaki; Tsuda, Yoshiyuki; Aoyama, Shigeo; Tanno, Satoshi; and Kato, Kaoru. 4,691,767, Cl. 165-151.000.
  - Tanaka, Hiroyoshi; Adachi, Masaaki; Tsuda, Yoshiyuki; Ando, Toshiaki; Nishiwaki, Humitoshi; and Aoyama, Shigeo. 4,715,437, Cl. 165-151.000.
- Aoyama, Shigetsune: *See—*
  - Saito, Tsutomu; Hasegawa, Yoshimichi; Yoshikawa, Kazuo; and Aoyama, Shigetsune. 4,637,594, Cl. 267-47.000.
- Aoyama, Shigeyuki: *See—*
  - Saito, Kenichiro; Kanaoka, Chikao; and Aoyama, Shigeyuki. 4,707,167, Cl. 55-267.000.
- Aoyama, Shunichi; Fujii, Hiroshi; and Kato, Manabu, to Nissan Motor Co., Ltd. Multi-valve internal combustion engine. 4,703,734, 11-3-87, Cl. 123-432.000.
- Aoyama, Susumu: *See—*
  - Kanamaru, Hisanobu; Aoyama, Susumu; and Koike, Tsutomu. 4,653,305, Cl. 72-343.000.
- Aoyama, Taizo; Hasegawa, Toshihiko; and Hosoi, Hideki, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Vinyl chloride resin composition having improved weather resistance and impact resistance. 4,670,509, 6-2-87, Cl. 525-85.000.
- Aoyama, Taizo: *See—*
  - Hosoi, Hideki; Hasegawa, Toshihiko; and Aoyama, Taizo. 4,645,795, Cl. 525-83.000.
  - Hosoi, Hideki; Hasegawa, Toshihiko; and Aoyama, Taizo. 4,690,977, Cl. 525-83.000.
- Aoyama, Takuo: *See—*
  - Fujii, Setsuro; Nakayama, Toyoo; Nunomura, Shigeki; Matsui, Ryoji; Watanabe, Shin-ichi; Sudo, Kimio; Okutome, Toshiyuki; Kurumi, Masateru; Sakurai, Yojiro; and Aoyama, Takuo. 4,634,783, Cl. 549-475.000.
- Aoyama, Taro; and Oshima, Yujiro, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Direct injection type internal combustion engine. 4,641,617, 2-10-87, Cl. 123-262.000.
- Aoyama, Taro: *See—*
  - Oshima, Yujiro; Yamada, Masatoshi; Mori, Nobuyuki; Sugiyama, Katsuhiko; Aoyama, Taro; Saito, Akinori; and Kozuka, Kazuhiro. 4,633,830, Cl. 123-276.000.
- Aoyama, Tsutomu; Nakamura, Taizo; Terao, Naoyosi; and Shinonaga, Hirohiko, to Mitutoyo Mfg. Co., Ltd. Microscope. 4,63[illegible], 1-27-87, Cl. 350-514.000.
- Aoyama, Yoshiyuki; Funabashi, Shuitsu; and Matsuzaka, Masaaki, to Nippon Seiko Kabushiki Kaisha. System for generating hole diameter information of printed board and the like. 4,659,938, 4-21-87, Cl. 250-566.000.
- Aoyama, Yoshiyuki: *See—*
  - Kawamura, Fumio; Matsuda, Masami; Aoyama, Yoshiyuki; Chino, Koichi; and Mizumoto, Mamoru. 4,636,335, Cl. 252-629.000.
  - Matsuda, Masami; Aoyama, Yoshiyuki; Kawamura, Fumio; Yasa, Hideo; Kikuchi, Makoto; Tamata, Shin; and Horiuchi, Susumu. 4,654,172, Cl. 252-629.000.
- Aoyama, Yuichi: *See—*
  - Matsui, Goro; Kiba, Katsuyoshi; Terasaka, Kiyoshi; and Aoyama, Yuichi. 4,670,814, Cl. 361-274.000.
- Aoyama, Yutaka: *See—*
  - Nakata, Moritsune; Yanai, Tokiyoshi; Yamaguchi, Hirotsugu; Higuchi, Megumu; Aoyama, Yutaka; and Shibahata, Yasuji. 4,634,135, Cl. 280-90.000.
  - Yanai, Tokiyoshi; Nakayama, Masafumi; Aoyama, Yutaka; and Nakata, Moritsune. 4,650,019, Cl. 180-79.100.
  - Yanai, Tokiyoshi; Yamaguchi, Hirotsugu; Nakayama, Masafumi; Higuchi, Megumu; Aoyama, Yutaka; and Nakata, Moritsune. 4,669,360, Cl. 91-382.000.
- AP Electronics, Inc.: *See—*
  - Gluckman, Dorian. 4,667,645, Cl. 123-552.000.
- AP Industries, Inc.: *See—*
  - De Bruine, Mark; and Spotts, Kenneth. 4,638,965, Cl. 248-59.000.
  - Harwood, Jon; Clegg, Michael; Rosa, Bruno A.; and Moring, Walter G., 4,656,712, Cl. 29-157.00R.
  - Harwood, Jon. 4,700,806, Cl. 181-282.000.
  - Peele, Camille; Harwood, Jon W.; and Resuggan, Peter L., 4,712,295, Cl. 29-700.000.
  - Rosa, Bruno A.; Harwood, Jon W.; Moring, Walter G., III; and Resuggan, Peter L., 4,656,713, Cl. 29-157.00R.
- Ap, Ngy S., to VALEO. Motor vehicle exhaust gas heat exchanger for heating engine coolant and lubricating oil. 4,685,430, 8-11-87, Cl. 123-142.50R.
- Apache Powder Company: *See—*
  - Ciaramitaro, David A.; Speltz, David J.; and Moore, Jack M., 4,637,848, Cl. 149-21.000.
- Apco Graphics, Inc.: *See—*
  - Cobb, Ronald W.; Lolis, Charles A.; and Crane, Nancy S., 4,641,448, Cl. 40-606.000.
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  - Murphy, Mark A., 4,657,215, Cl. 248-221.300.
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  - Keutgen, Franz; Kubon, Achim; Perings, Dieter; Stadler, Peter; Voss-Spilker, Peter; and Apel, Karl-Hermann. 4,714,105, Cl. 164-420.000.
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  - McGovern, Lore H.; and Moore, Alix A., 4,681,573, Cl. 604-329.000.
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  - Douros, Bryan P.; and Marcuvitz, Andrew, 4,716,575, Cl. 375-3.000.
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  - Ourensma, Jan, 4,655,253, Cl. 137-614.180.
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  - Donahue, William R., Jr., 4,651,971, Cl. 251-129.150.
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  - Kruest, James R., 4,684,831, Cl. 307-475.000.
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- Ara, Yoji, to Canon Kabushiki Kaisha. Wire dot printer with improved wire dot head. 4,697,939, 10-6-87, Cl. 400-124.000.
- Arabella Limited: *See—*
  - Boyle, Michael, 4,641,465, Cl. 52-127.100.
- Arabian American Oil Company: *See—*
  - Stewart, Ross W., 4,674,473, Cl. 125-1.000.
- Arabori, Hideo: *See—*
  - Aoki, Katsumichi; Shida, Takafumi; Arabori, Hideo; Kumazawa, Satoru; Shimizue, Susumu; Watanave, Takeo; Kanda, Yohichi; Satake, Keigo; Yamazaki, Shiro; Shinkawa, Hiroyasu; and Chida, Tsuneaki, 4,690,704, Cl. 71-90.000.
- Arachnid, Inc.: *See—*
  - Michalski, David E., 4,706,962, Cl. 273-347.000.

Aracs, Zsuzsanna: *See—*
Kreidl, Janos; Turcsanyi, Peter; Aracs, Zsuzsanna; Stefko, Bela; Meszaros, Judit; Deutsch, Ida; Szilbereky, Jeno; Csizer, Eva; Vezer, Szilard; Bogsch, Erik; Bakos, Jozsef; Szotyori, Laszlo; and Heil, Balint, 4,710,323, Cl. 260-543.00R.
Arad, Abraham A.: *See—*
Kennedy, Melvin R.; Nagel, Dietmar; and Arad, Abraham A., 4,643,695, Cl. 446-427.000.
Kennedy, Melvin R.; Nagel, Dietmar; and Arad, Abraham A., 4,680,020, Cl. 446-414.000.
Kennedy, Melvin R.; Nagel, Dietmar; and Arad, Abraham A., 4,693,693, Cl. 446-6.000.
Kennedy, Melvin R.; Nagel, Dietmar; and Arad, Abraham A., 4,698,044, Cl. 446-434.000.
Arad, Avi: *See—*
Kennedy, Melvin R.; Nagel, Dietmar; and Arad, Avi, 4,642,066, Cl. 446-420.000.
Arada, Carl T. Multi-density polyurethane foam packing unit and method of making same. 4,658,567, 4-21-87, Cl. 53-472.000.
Arae, Teiji: *See—*
Sumiyoshi, Hiroji; and Arae, Teiji, 4,641,059, Cl. 313-477.00R.
Arafat, Hafiz. Method and means for preparing floor covering using a template. 4,659,409, 4-21-87, Cl. 156-249.000.
Araghi, Mehdi N.; and Tandon, Jagdish C., to Xerox Corporation. Replaceable image sensor array. 4,698,131, 10-6-87, Cl. 156-647.000.
Araghi, Mehdi N.: *See—*
Tandon, Jagdish C.; and Araghi, Mehdi N., 4,668,333, Cl. 156-633.000.
Tandon, Jagdish C.; and Araghi, Mehdi N., 4,695,716, Cl. 250-211.00R.
Yip, Kwok-leung; Araghi, Mehdi N.; Daniele, Joseph J.; Banton, Martin E.; Kramer, Charles J.; and Ritter, Joachim A., 4,639,073, Cl. 350-6.800.
Aragona, Joel. Safety lock device. 4,643,106, 2-17-87, Cl. 109-6.000.
Arahara, Kohzoh: *See—*
Fukumoto, Hiroshi; Ohnishi, Toshikazu; and Arahara, Kohzoh, 4,702,988, Cl. 430-137.000.
Arahira, Masato: *See—*
Osugi, Katsuhisa; Ichinose, Isao; Takahashi, Eisaku; and Arahira, Masato, 4,684,664, Cl. 514-475.000.
Arahori, Noboru: *See—*
Hokari, Sadao; Hori, Takamasa; Komuro, Katsu; Hatakeyama, Takanobu; Narita, Toshiroo; Katayama, Yasunori; and Arahori, Noboru, 4,661,757, Cl. 318-798.000.
Arai, Fuminori: *See—*
Katsuyama, Harumi; Arai, Fuminori; Miyazako, Takushi; and Nagatomo, Shigeru, 4,671,937, Cl. 422-56.000.
Arai, Hatsuyuki. Upper plate driving system for surface lapping machine. 4,707,945, 11-24-87, Cl. 51-118.000.
Arai Helmet Co., Ltd.: *See—*
Arai, Michio, 4,652,141, Cl. 368-278.000.
Arai, Hideharu: *See—*
Naoi, Mitsuaki; Miyazawa, Azuma; and Arai, Hideharu, 4,669,009, Cl. 360-99.000.
Arai, Hideo: *See—*
Shibuta, Daisuke; Kobayashi, Shinichiro; Yoshizumi, Motohiko; and Arai, Hideo, 4,668,501, Cl. 423-608.000.
Arai, Hiroshi; and Fukushima, Kazunobu, to Toyota Jidosha Kabushiki Kaisha. Apparatus for housing electrical wiring extending between a vehicle door and a vehicle body. 4,653,799, 3-31-87, Cl. 296-146.000.
Arai, Hirotoshi: *See—*
Hirai, Shiro; Hirano, Hiroshi; Arai, Hirotoshi; Kiba, Yasuo; Shibata, Hisanari; Kusayanagi, Yoshikazu; Yotsuji, Minako; Hashiba, Kazuhiko; and Tanada, Kikuko, 4,643,849, Cl. 540-955.000.
Arai, Hisahiro: *See—*
Sasaki, Nobuyoshi; Baba, Susumu; and Arai, Hisahiro, 4,712,605, Cl. 164-516.000.
Arai, Hitoshi, to Canon Kabushiki Kaisha. Image reading apparatus which calculates an original reading domain. 4,709,147, 11-24-87, Cl. 250-234.000.
Arai, Hitoshi: *See—*
Tokuoka, Yasumichi; Arai, Hitoshi; Higuchi, Norio; and Hotsuki, Hideki, 4,670,337, Cl. 428-323.000.
Arai, Jun-ichiro: *See—*
Wakabayashi, Toshio; Takai, Makoto; Ichikawa, Shuji; Arai, Jun-ichiro; and Murota, Seiitsu, 4,673,684, Cl. 514-327.000.
Arai, Katsuhiko: *See—*
Kurachi, Yasuo; Arai, Katsuhiko; Wada, Hiroaki; Watabe, Yoji; and Irako, Sanae, 4,702,900, Cl. 423-345.000.
Arai, Katsuo: *See—*
Nozawa, Yoshio; Ochiai, Izumi; Kitayama, Yukio; Miyagi, Masahiro; Uehara, Katsuharu; Deguchi, Takahiko; Morita, Keikichi; Arai, Katsuo; and Nakayama, Tamotsu, 4,698,904, Cl. 29-726.000.
Arai, Katsuyoshi; and Nakamura, Hisao, to Honda Giken Kogyo Kabushiki Kaisha. Compound engine mount with variable orifice. 4,699,099, 10-13-87, Cl. 123-192.00R.
Arai, Katsuyoshi: *See—*
Morita, Isamu; Arai, Katsuyoshi; and Koike, Tetsuya, 4,651,980, Cl. 267-140.100.
Arai, Kazuo; Nishi, Shinichi; Satoh, Taxey; Kawaguchi, Yasushi; and Mine, Kiyomitsu, to Konishiroku Photo Industry Co., Ltd. Optical fungicide-treated information recording and reproducing medium. 4,672,395, 6-9-87, Cl. 346-135.100.
Arai, Kazutaka: *See—*
Takahashi, Yasuhiro; Arai, Kazutaka; Ohara, Yoshio; Matsumoto, Hiroo; and Tsuchiya, Syuuzi, 4,709,082, Cl. 560-105.000.
Arai, Keiichi, to Olympus Optical Co., Ltd. Endoscope having rotatable clamp inserting section. 4,705,023, 11-10-87, Cl. 128-4.000.
Arai, Ken-ichi: *See—*
Yokota, Takashi; Lee, Frank; Rennick, Donna; and Arai, Ken-ichi, 4,695,542, Cl. 435-68.000.
Arai, Kenichi: *See—*
Tsuya, Noboru; and Arai, Kenichi, 4,682,206, Cl. 357-59.000.
Yamamoto, Isamu; Noguchi, Yoshiaki; Iwasaki, Kouzou; and Arai, Kenichi, 4,657,704, Cl. 260-513.00B.
Arai, Kenichiro, to Seiko Epson Kabushiki Kaisha. Printer. 4,707,154, 11-17-87, Cl. 400-185.000.
Arai, Kenji: *See—*
Kurihara, Kazumasa; and Arai, Kenji, 4,693,142, Cl. 74-861.000.
Kurihara, Kazumasa; and Arai, Kenji, 4,714,145, Cl. 192-0.052.
Arai, Koichi, to Arai Machinery Corporation. Wire locking structure for a filter device. 4,655,922, 4-7-87, Cl. 210-497.100.
Arai, Koichi, to Arai Machinery Corporation. Filter process and its device. 4,693,835, 9-15-87, Cl. 210-777.000.
Arai, Koichi: *See—*
Shibasaki, Sohei; Iwasaki, Yasumasa; Ono, Noriki; Arai, Koichi; Maruyama, Koji; and Shimanari, Tatsumi, 4,648,706, Cl. 355-43.000.
Arai, Koji: *See—*
Namiki, Yasuomi; and Arai, Koji, 4,672,469, Cl. 358-312.000.
Arai Machinery Corporation: *See—*
Arai, Koichi, 4,655,922, Cl. 210-497.100.
Arai, Koichi, 4,693,835, Cl. 210-777.000.
Arai, Masaaki: *See—*
Sasaki, Takayuki; and Arai, Masaaki, 4,668,988, Cl. 358-166.000.
Sasaki, Takayuki; and Arai, Masaaki, 4,701,871, Cl. 364-718.000.
Arai, Masakazu: *See—*
Endo, Hiroshi; Arai, Masakazu; Nishikawa, Shigeo; Saito, Masanori; Tanaka, Masahiro; Nagasaki, Kunikazu; and Mathuno, Shigeki, 4,698,191, Cl. 264-50.000.
Arai, Masashi: *See—*
Tanaka, Kanji; and Arai, Masashi, 4,707,856, Cl. 381-15.000.
Arai, Masatoshi; Inoue, Takeo; and Sato, Shinichi, to Shin-Etsu Chemical Co., Ltd. Organosilicon compound and process for preparing the same. 4,652,661, 3-24-87, Cl. 549-214.000.
Arai, Masatoshi: *See—*
Inoue, Yoshio; Arai, Masatoshi; Inoue, Takeo; Yaginuma, Atsushi; and Tomizawa, Tetsuo, 4,675,365, Cl. 525-408.000.
Inoue, Yoshio; Arai, Masatoshi; and Sato, Shinichi, 4,689,363, Cl. 524-394.000.
Inoue, Yoshio; Arai, Masatoshi; and Inoue, Takeo, 4,695,603, Cl. 524-723.000.
Inoue, Yoshio; Arai, Masatoshi; Sato, Shinichi; and Yokoo, Koji, 4,695,617, Cl. 528-32.000.
Arai, Masayuki; and Ogasawara, Terumi, to Asahi Seimitsu Kabushiki Kaisha. Remoto-controllable automatic diaphragm control device for use with CCTV camera. 4,651,216, 3-17-87, Cl. 358-228.000.
Arai, Michio, to Arai Helmet Co., Ltd. Time apparatus. 4,652,141, 3-24-87, Cl. 368-278.000.
Arai, Michio. Ventilated helmet. 4,698,856, 10-13-87, Cl. 2-425.000.
Arai, Michio: *See—*
Kobayashi, Mikiya; Nakada, Takeshi; and Arai, Michio, 4,679,056, Cl. 346-76.0PH.
Arai, Mikiro; Isoda, Takeshi; and Funayama, Osamu, to Toa Nenryo Kogyo Kabushiki Kaisha. Polyorgano(hydro)silazane and process for producing same. 4,659,850, 4-21-87, Cl. 556-409.000.
Arai, Mikiya: *See—*
Watanabe, Kenshu; Shiba, Kiminori; Arai, Mikiya; Yamaguchi, Masaya; Fujiki, Yasuo; and Fujimoto, Ryohei, 4,648,480, Cl. 181-158.000.
Arai, Minoru: *See—*
Ohe, Takeshi; Taniguchi, Yoshiaki; and Arai, Minoru, 4,686,438, Cl. 318-280.000.
Arai, Mitsuru: *See—*
Yoshida, Toshiyuki; and Arai, Mitsuru, 4,712,377, Cl. 60-444.000.
Arai, Naoto, to Kanzaki Paper Mfg. Co., Ltd. Heat-sensitive recording material. 4,713,364, 12-15-87, Cl. 503-209.000.
Arai, Noboru; and Shinada, Hidetoshi, to Fuji Photo Film Co., Ltd. Optical linear encoder. 4,667,099, 5-19-87, Cl. 250-235.000.
Arai, Noboru; and Yanagimoto, Takekazu, to Fuji Photo Film Co., Ltd. Device for holding an imaging lens. 4,693,555, 9-15-87, Cl. 350-253.000.
Arai, Nobushige, to Sharp Kabushiki Kaisha. Selective absorption film of a solar heat collector. 4,637,374, 1-20-87, Cl. 126-417.000.
Arai, Nobushige, to Sharp Kabushiki Kaisha. Solar heat collector assembly. 4,677,966, 7-7-87, Cl. 126-450.000.
Arai, Norikazu, to Konishiroku Photo Industry Co., Ltd. Projection lens for a television projector. 4,666,261, 5-19-87, Cl. 350-473.000.
Arai, Osamu: *See—*
Iizuka, Nobuyuki; Hisano, Katsukuni; Wada, Katsuo; Kunihiro, Masashi; Hirose, Fumiyuki; Ishibashi, Yoji; Sato, Isao; Arai, Osamu; Inose, Hiroshi; and Sakuda, Osamu, 4,677,822, Cl. 60-39.230.
Arai, Ryuichi; and Toganoh, Shigeo, to Canon Kabushiki Kaisha. Recording medium. 4,636,409, 1-13-87, Cl. 427-256.000.
Arai, Ryuichi; Sakaki, Mamoru; and Matsui, Shinya, to Canon Kabushiki Kaisha. Recording medium and recording method utilizing the same. 4,664,952, 5-12-87, Cl. 427-256.000.

Arai, Ryuichi; and Sakaki, Mamoru, to Canon Kabushiki Kaisha. Recording medium and recording method by use thereof. 4,686,118, 8-11-87, Cl. 427-261.000.

Arai, Ryuichi: *See—*
- Akiya, Takashi; Toganoh, Shigeo; and Arai, Ryuichi, 4,636,410, Cl. 427-261.000.
- Mouri, Hidemasa; Tobita, Michiaki; Eto, Naonobu; Kouno, Shunzo; Ohkura, Kosuke; Toganoh, Shigeo; Arai, Ryuichi; Sakaki, Mamoru; Iwata, Kazuo; and Shibasaki, Hiromi, 4,642,247, Cl. 427-214.000.
- Sakaki, Mamoru; and Arai, Ryuichi, 4,701,837, Cl. 346-135.100.
- Toganoh, Shigeo; Arai, Ryuichi; and Sakaki, Mamoru, 4,636,805, Cl. 346-1.100.
- Toganoh, Shigeo; and Arai, Ryuichi, 4,642,654, Cl. 346-1.100.

Arai, Shigeharu; and Otsuka, Minoru, to Ogura Clutch. Control circuits for electromagnetic coupling apparatus. 4,649,458, 3-10-87, Cl. 361-152.000.

Arai, Shigeji: *See—*
- Ichikawa, Ieyasu; and Arai, Shigeji, 4,676,157, Cl. 101-155.000.

Arai, Shinichi: *See—*
- Hamada, Toyohide; Sugimoto, Koichi; Koizumi, Kiyohide; and Arai, Shinichi, 4,674,947, Cl. 414-735.000.
- Sato, Naoki; Kamo, Yoshihisa; Katoh, Yasuhiro; Kosuge, Minoru; and Arai, Shipichi, 4,716,306, Cl. 307-296.00R.

Arai, Shoji; Tamano, Yutaka; and Hasegawa, Masazumi, to Toya Soda Manufacturing Co., Ltd. Process for producing high density elastic polyurethane using a combination of 4-methyl-1-(2-dimethylaminoethyl) piperazine together with another tertiary amine catalyst. 4,638,016, 1-20-87, Cl. 521-129.000.

Arai, Shoji: *See—*
- Hasegawa, Masazumi; Arai, Shoji; and Mizoe, Shinya, 4,701,473, Cl. 521-118.000.

Arai, Shokichi; and Fujii, Tadayoshi, to Honda Giken Kogyo Kabushiki Kaisha. Front wheel suspension for a motor vehicle with riding saddle. 4,662,467, 5-5-87, Cl. 180-210.000.

Arai, Takao: *See—*
- Ito, Masahiro; Kobayashi, Masaharu; and Arai, Takao, 4,716,567, Cl. 371-40.000.
- Kobayashi, Masaharu; Okamoto, Hiroo; and Arai, Takao, 4,646,170, Cl. 360-22.000.
- Kobayashi, Masaharu; Noguchi, Takaharu; Arai, Takao; Masuda, Michio; and Yumde, Yasufumi, 4,670,796, Cl. 358-310.000.
- Nishimura, Keizo; Kobayashi, Masaharu; Okamoto, Hiroo; Noguchi, Takaharu; Arai, Takao; and Shibuya, Toshifumi, 4,649,542, Cl. 371-39.000.
- Okamoto, Hiroo; Kobayashi, Masaharu; Kimura, Hiroyuki; Noguchi, Takaharu; and Arai, Takao, 4,646,301, Cl. 371-37.000.
- Okamoto, Hiroo; Kobayashi, Masaharu; Nishimura, Keizo; Noguchi, Takaharu; Arai, Takao; and Shibuya, Toshifumi, 4,677,622, Cl. 371-39.000.
- Okamoto, Hiroo; Arai, Takao; and Hoshino, Takashi, 4,682,152, Cl. 340-347.0DD.
- Okamoto, Hiroo; Kobayashi, Masaharu; Noguchi, Takaharu; and Arai, Takao, 4,682,332, Cl. 371-38.000.
- Takahashi, Hiroaki; Kobavashi, Masaharu; Nogachi, Takanaru; Shibuya, Toshifumi; and Arai, Takao, 4,685,004, Cl. 360-32.000.

Arai, Takashi, to Canon Kabushiki Kaisha. Injection molding machine. 4,715,302, 12-29-87, Cl. 425-130.000.

Arai, Takashi: *See—*
- Fuchi, Ikuo; Arai, Takashi; and Amaya, Yoshio, 4,660,953, Cl. 354-286.000.

Arai, Takatoshi: *See—*
- Masaka, Mitusuke; Arai, Takatoshi; Iwabuchi, Hideo; and Idei, Michio, 4,643,653, Cl. 417-417.000.
- Masaka, Mitusuke; and Arai, Takatoshi, 4,661,048, Cl. 417-360.000.

Arai, Takeo; Anno, Nobuo; Kinoshita, Yusuke; and Kusakabe, Yukio, to Honda Giken Kogyo Kabushiki Kaisha. Cylinder block and head assembly for internal combustion engines. 4,683,844, 8-4-87, Cl. 123-41.740.

Arai, Takeo: *See—*
- Anno, Nobuo; and Arai, Takeo, 4,681,068, Cl. 123-41.860.
- Anno, Nobuo; and Arai, Takeo, 4,686,943, Cl. 123-41.740.
- Anno, Nobuo; and Arai, Takeo, 4,702,204, Cl. 123-196.0AB.
- Anno, Nobuo; and Arai, Takeo, 4,712,517, Cl. 123-41.740.

Arai, Takeshi; Ebara, Masami; and Ueyama, Hiroyuki, to Sanyo Electric Co., Ltd. Scanning conversion method and scan converter unit employing the conversion method. 4,658,293, 4-14-87, Cl. 358-140.000.

Arai, Tatsuo, to United States of America, International Trade & Industry. Bilateral master-slave manipulator control device. 4,661,032, 4-28-87, Cl. 414-5.000.

Arai, Tatsuo: *See—*
- Shimomura, Hiroshi; and Arai, Tatsuo, 4,687,383, Cl. 407-46.000.
- Tsujimura, Osamu; Saito, Takayoshi; and Arai, Tatsuo, 4,693,641, Cl. 407-42.000.

Arai, Tohru; and Endo, Junji, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Method of forming a carbide layer. 4,686,117, 8-11-87, Cl. 427-249.000.

Arai, Tomio; Nakagawa, Takao; Mogi, Fumio; and Oshiguri, Noriaki, to Fuji Standard Research, Inc.; and Sumitomo Metai Industries, Ltd. Process of producing carbonaceous pitch. 4,663,021, 5-5-87, Cl. 208-67.000.

rai, Toshiaki: *See—*
- Kinoshita, Toshiyuki; Arai, Toshiaki; Sato, Takao; Kubo, Takashige; Yoshizawa, Yasufumi; and Mori, Hiromichi, 4,703,422, Cl. 364-200.000.

Arai, Tsutomu: *See—*
- Narushima, Tsugio; Arai, Tsutomu; and Doumoto, Yasuo, 4,634,304, Cl. 400-691.000.

Arai, Yasuhiro: *See—*
- Kaku, Takashi; and Arai, Yasuhiro, 4,694,469, Cl. 375-13.000.

Arai, Yasuhisa: *See—*
- Amano, Katsuhisa; Arai, Yasuhisa; Kushida, Noritaka; and Asakura, Masahiko, 4,665,883, Cl. 123-571.000.

Arai, Yasunori, to Asahi Kogaku Kogyo Kabushiki Kaisha. Variable magnification copying optical system. 4,676,632, 6-30-87, Cl. 355-56.000.

Arai, Yasuo, to Yoshida Industry Co., Ltd. Method and apparatus for loading cosmetic material into a container and solidifying said cosmetic material. 4,660,608, 4-28-87, Cl. 141-12.000.

Arai, Yoshihiro; and Nahara, Akira, to Fuji Photo Film Co., Ltd. Magnetic recording medium with chromiumiron protective layer. 4,639,815, 1-27-87, Cl. 360-131.000.

Arai, Yoshihiro; and Shirahata, Ryuji, to Fuji Photo Film Co., Ltd. Process for producing magnetic recording medium. 4,643,915, 2-17-87, Cl. 427-130.000.

Arai, Yoshihiro; Nahara, Akira; and Fukino, Kiyotaka, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,652,483, 3-24-87, Cl. 428-216.000.

Arai, Yoshihiro: *See—*
- Shirahata, Ryuji; and Arai, Yoshihiro, 4,652,460, Cl. 427-39.000.
- Shirahata, Ryuji; Arai, Yoshihiro; and Yasunaga, Tadashi, 4,673,610, Cl. 428-213.000.
- Shirahata, Ryuji; Kitamoto, Tatsuji; and Arai, Yoshihiro, 4,700,198, Cl. 346-1.100.

Arai, Yoshinao; Takahashi, Shino; Oikawa, Eigo; Sato, Shigeru; and Kobayashi, Hideaki, to Hitachi, Ltd. Method of and apparatus for preparing numerical control data for inserting components. 4,706,187, 11-10-87, Cl. 364-191.000.

Arai, Yoshinobu: *See—*
- Imaki, Katsuhiro; Okegawa, Tadao; and Arai, Yoshinobu, 4,640,931, Cl. 514-510.000.

Arai, Yoshinori: *See—*
- Miyaji, Kenichi; Toida, Shouji; and Arai, Yoshinori, 4,653,469, Cl. 126-390.000.
- Miyaji, Kenichi; Toida, Shouji; and Arai, Yoshinori, 4,684,057, Cl. 228-187.000.

Arai, Yoshio; and Nagashima, Hideo, to Tachi-S Co., Ltd. Vertical adjustment device for headrest in vehicle seat. 4,688,852, 8-25-87, Cl. 297-410.000.

Arai, Yoshio; Kitajima, Akira; and Akiba, Kouji, to Hochiki Kabushiki Kaisha. Fire extinguishing condition monitoring apparatus for automatic fire extinguishing equipment. 4,706,760, 11-17-87, Cl. 169-61.000.

Arai, Yuko: *See—*
- Hirata, Tadashi; Kobayashi, Shigeru; Takahashi, Keiichi; Morimoto, Makoto; and Arai, Yuko, 4,650,869, Cl. 544-343.000.
- Tomohiro, Susumu; Arai, Yuko; and Mineura, Kazuyuki, 4,673,645, Cl. 435-119.000.

Arai, Yukou: *See—*
- Ishii, Shinzo; Katsumata, Shigeo; Arai, Yukou; Fujimoto, Kazuhisa; and Morimoto, Makoto, 4,649,199, Cl. 544-342.000.

Arai, Yutaka: *See—*
- Takarada, Mitsuhiro; Ishii, Hiroshi; Arai, Yutaka; and Hamano, Takashi, 4,657,951, Cl. 523-153.000.

Araikawa, Mutsuya: *See—*
- Ohtani, Teruo; Tamura, Toshihisa; Ikeda, Yuji; Araikawa, Mutsuya; and Kywata, Kazuyoshi, 4,696,635, Cl. 425-330.000.

Arakawa & Co., Ltd.: *See—*
- Arakawa, Hideo, 4,656,698, Cl. 24-136.00A.

Arakawa, Hideki, to Fujitsu Limited. Voltage detecting device. 4,636,658, 1-13-87, Cl. 307-350.000.

Arakawa, Hideki, to Fujitsu Limited. Nonvolatile semiconductor memory circuit including dummy sense amplifiers. 4,677,590, 6-30-87, Cl. 365-185.000.

Arakawa, Hideki, to Fujitsu Limited. Voltage level detection circuit. 4,682,051, 7-21-87, Cl. 307-359.000.

Arakawa, Hideki, to Fujitsu Limited. Method of producing semiconductor memory device. 4,699,690, 10-13-87, Cl. 156-662.000.

Arakawa, Hideki, to Fujitsu Limited. High voltage precharging circuit. 4,703,196, 10-27-87, Cl. 307-246.000.

Arakawa, Hideki, to Fujitsu Limited. Non-volatile random access memory cell. 4,703,456, 10-27-87, Cl. 365-185.000.

Arakawa, Hideki: *See—*
- Kawashima, Hiromi; and Arakawa, Hideki, 4,644,182, Cl. 307-246.000.

Arakawa, Hideo, to Arakawa & Co., Ltd. Arrangement for gripping end regions of elongated flexible elements. 4,656,698, 4-14-87, Cl. 24-136.00A.

Arakawa, Hideo; Sugiyama, Gunji; Tange, Koichi; Hongo, Takero; Yamamoto, Yuzo; and Ohba, Hiroyuki, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Automatic guidance system for an unmanned vehicle. 4,700,302, 10-13-87, Cl. 364-424.000.

Arakawa, Hiromichi: *See—*
- Kobayashi, Toshiaki; Arakawa, Hiromichi; and Ohira, Tatsuo, 4,642,324, Cl. 524-559.000.

Arakawa, Jun: *See—*
- Ogawa, Tadashi; Arakawa, Jun; Nagaoka, Satoshi; Ohashi, Yuichi; and Tamoto, Koji, 4,652,515, Cl. 430-505.000.

Arakawa, Junichi, to Canon Kabushiki Kaisha. Image forming apparatus. 4,642,658, 2-10-87, Cl. 346-76.0PH.

Arakawa Kagaku Kogyo Kabushiki Kaisha: *See—*
- Makita, Muneharu; and Maeno, Jun-ichi, 4,647,636, Cl. 526-206.000.

Arakawa, Kaneyasu: *See—*
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- Ishizaki, Akira; and Arakawa, Kazuhiko, 4,701,626, Cl. 250-578.000.
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Arakawa Shatai Kogyo Kabushiki Kaisha: *See—*
- Tatematsu, Kazuhisa; Kondo, Tokuji; Sasaki, Shiro; and Kawamatsu, Koji, 4,666,208, Cl. 297-341.000.

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Arakawa, Yoshichika: *See—*
- Ogasawara, Tsunehiko; Arakawa, Yoshichika; Sumiya, Koji; and Sakaguchi, Yoshikazu, 4,633,739, Cl. 74-869.000.

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- Yoshino, Hiroshi; Tsuchiya, Yutaka; Kaneko, Takeru; Nakazawa, Takahiro; Ikeda, Masuhiro; Araki, Shin; Yamatsu, Kiyomi; Tachibana, Shinro; and Arakawa, Yoshihiro, 4,707,468, Cl. 514-16.000.

Arakawa, Yoshio: *See—*
- Yokoyama, Kazumasa; Fukaya, Chikara; Tsuda, Yoshio; Ono, Taizo; Arakawa, Yoshio; Inoue, Yoshihisa; Naito, Youichiro; and Suyama, Tadakazu, 4,654,337, Cl. 514-214.000.
- Yokoyama, Kazumasa; Fukaya, Chikara; Tsuda, Yoshio; Ono, Taizo; Arakawa, Yoshio; and Suyama, Tadakazu, 4,713,459, Cl. 546-150.000.

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- Ishiguro, Kazuyoshi; and Araki, Hidemoto, 4,642,858, Cl. 24-641.000.

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- Buma, Shuuichi; Yokoya, Yuji; Araki, Hitoshi; Hirose, Masanori; Miyata, Hiroshi; and Ohashi, Kaoru, 4,666,135, Cl. 267-64.210.
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- Sakabe, Busaburo; Hyuga, Kounosuke; and Araki, Kazuhito, 4,635,402, Cl. 51-74.0BS.

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Araki, Shigeru: *See—*

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Araki, Shigeyuki: *See—*

Hirota, Tetsuro; Araki, Shigeyuki; Yokoyama, Shizuo; Masui, Haruyoshi; and Hirata, Toshitaka, 4,661,822, Cl. 346-75.000.

Araki, Shin: *See—*

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Kakizaki, Takehiro; Araki, Shoji; and Numata, Shinichi, 4,707,634, Cl. 313-432.000.

Tagawa, Susumu; Araki, Shoji; and Numata, Shinichi, 4,651,050, Cl. 313-390.000.

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Araki, Yasuo; and Kurata, Kazuyuki, to Sharp Kabushiki Kaisha. Copying machine exposure adjustment device. 4,699,502, 10-13-87, Cl. 355-14.00E.

Araki, Yoshihiko: *See—*

Otsuki, Yutaka; Omika, Hiroyoshi; Oshima, Akio; Araki, Yoshihiko; and Tsuchiya, Yasuyuki, 4,642,325, Cl. 525-65.000.

Araki, Yoshima: *See—*

Kawakami, Michio; Araki, Yoshima; Murakami, Kenkichi; Oikawa, Hidetoshi; Nakanishi, Michio; and Hosotani, Makoto, 4,659,786, Cl. 525-415.000.

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Muramatsu, Tateo; Enami, Yasushi; Saito, Hideaki; and Aramaki, Kuninori, 4,662,783, Cl. 405-115.000.

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Arana, Jorge E.: *See—*

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Irani, Andrew A.; Schulte-Ladbeck, Bernd H.; and Arani, Aspee A., 4,707,883, Cl. 16-110.00R.

Aranovich, Felix, to Clevite Industries Inc. Spool valve assembly. 4,715,407, 12-29-87, Cl. 137-625.650.

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Osato, Yoichi; Fujii, Eiichi; Saito, Ichiro; and Arao, Kozo, 4,664,977, Cl. 428-336.000.

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Akopov, Ernest M.; Schitinin, Valery E.; and Arapova, Anna V., 4,684,051, Cl. 227-19.000.

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Arashi, Norio: *See—*

Sohma, Ken-ichi; Arashi, Norio; Azuhata, Shigeru; Narato, Kiyoshi; Inada, Tooru; Kobayashi, Hironobu; Ohtsuka, Keizou; and Hishinuma, Yukio, 4,653,998, Cl. 431-79.000.

Arashida, Susumu: *See—*

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Kitaura, Yoshihiko; Nakaguchi, Osamu; Hemmi, Keiji; Aratani, Matsuhiko; Takeno, Hidekazu; Okada, Satoshi; Tanaka, Hirokazu; Hashimoto, Masashi; Kuroda, Yoshio; Iguchi, Eiko; Kohsaka, Masanobu; Aoki, Hatsuo; and Imanaka, Hiroshi, 4,666,890, Cl. 514-18.000.

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Fujii, Tsuguo; Yamamoto, Katsumasa; Aratani, Tetsuo; and Uegaki, Yoshinori, 4,663,431, Cl. 528-388.000.

Aratsu, Syuichi, to Alps Electric Co., Ltd. Vibration preventing device in intermittent driving mechanism. 4,669,327, 6-2-87, Cl. 74-409.000.

Arav, Ronnie A., to Beloit Corp. Sealing device for securing device extending through fluid container. 4,671,546, 6-9-87, Cl. 285-368.000.

Araya, Abraham; and Lowe, Barrie M., to Imperial Chemical Industries PLC. Synthesis of zeolite EU-13 from a reaction mixture containing tetramethylammonium compound. 4,705,674, 11-10-87, Cl. 423-277.000.

- Araya, Hiroyuki: *See—*
  - Saito, Kazuo; Matsuzaka, Takashi; Chiba, Mitsuyoshi; Sumitani, Shigeto; Yodo, Masami; and Araya, Hiroyuki, 4,642,046, Cl. 431-354.000.
- Arbed S.A.: *See—*
  - Bock, Andre, 4,655,647, Cl. 406-194.000.
  - Denier, Guy; and Henrion, Romain, 4,696,456, Cl. 266-44.000.
  - Liesch, Jean-Francois; Kassegger, Friedrich; and Handler, Rudolf, 4,647,020, Cl. 266-270.000.
  - Melan, Corneille; and Liesch, Jean, 4,708,562, Cl. 414-10.000.
  - Schleich, Jean-Baptiste, 4,696,137, Cl. 52-251.000.
  - Schleimer, Francois, 4,675,049, Cl. 75-48.000.
- Arbeiter, James H., to RCA Corporation. Compact-structure input-weighted multitap digital filters. 4,694,413, 9-15-87, Cl. 364-724.000.
- Arbeiter, James H.: *See—*
  - Bessler, Roger F.; Arbeiter, James H.; and Sinniger, Joseph O., 4,709,394, Cl. 382-49.000.
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- Arbenius, Goran. Arrangement in automotive vehicles. 4,688,842, 8-25-87, Cl. 296-24.00R.
- Arber, Amihadar. Advance date warning system. 4,708,490, 11-24-87, Cl. 368-28.000.
- Arbetter, Michael, to Crown Creative Industries, Inc. Apparatus for forming apertures in pleats. 4,650,102, 3-17-87, Cl. 223-28.000.
- Arbic, Harold J.; Love, Philip F.; and Kramer, Donald, to Door Guard, Inc. Door brace. 4,676,536, 6-30-87, Cl. 292-339.000.
- Arbige, Michael V.; and Neubeck, Clifford E., to Genencor, Inc. Lipolytic enzyme derived from a aspergillus microorganism having an accelerating effect on cheese flavor development. 4,636,468, 1-13-87, Cl. 435-198.000.
- Arbisi, Dominic S.; and Rasmussen, Thomas A., to Aeras Water Resources, Inc. Method and apparatus for aerating flowing water raceways. 4,659,485, 4-21-87, Cl. 210-758.000.
- Arbisi, Dominic S.; and Replogle, Coy E., to Aeras Water Resources, Inc. Mobile pond aerating system. 4,680,148, 7-14-87, Cl. 261-120.000.
- Arbjerg, Niels, to Danfoss A/S. Control device for hydrostatic power assisted steering. 4,671,747, 6-9-87, Cl. 418-61.00B.
- ARBO Medizin-Technologie GmbH.: *See—*
  - Ding, Wolfgang; and Arnold, Werner, 4,696,527, Cl. 439-53.000.
- Arbogast, Bradley W., to East Tennessee State University. Process for the determination of the toxicity preventing activity of human blood serum. 4,699,878, 10-13-87, Cl. 435-11.000.
- Arbogast, Thomas P.; Charboneau, Ben J.; and Hair, Robert A., to Wickes Manufacturing Company. Seat belt retractor mechanism. 4,688,825, 8-25-87, Cl. 280-803.000.
- Arbogast, William C., Jr.; Boutcher, Andrew G., Jr.; Folk, Kenneth F.; Richart, Stephen D.; and Ross, Milton D., to AMP Incorporated. Wire deploying apparatus and method of using. 4,649,636, 3-17-87, Cl. 29-861.000.
- Arbogast, William C., Jr., to AMP Incorporated. Dual slot electrical contact and method of making same. 4,692,121, 9-8-87, Cl. 439-874.000.
- Arboneaux, Emmet J., III: *See—*
  - Revils, Ernest A.; Arboneaux, Emmet J., III; and Lirette, Brent J., 4,674,569, Cl. 166-154.000.
- Arbouw, Jac, to N.V. Optische Industrie "De Oude Delft". Pivoting mechanism having two end positions. 4,649,770, 3-17-87, Cl. 74-529.000.
- Arbrink, Richard; and Nylund, Olov, to AB Asea-Atom. Fuel assembly for a nuclear reactor. 4,707,328, 11-17-87, Cl. 376-446.000.
- Arbter, Conrad, to Pfaff Industriemaschinen GmbH. Device for forming a doubly turned hem. 4,660,486, 4-28-87, Cl. 112-143.000.
- Arbter, Conrad, to Pfaff Industriemaschinen GmbH. Device for aligning and cutting lengths of material. 4,704,928, 11-10-87, Cl. 83-175.000.
- Arbter, Klaus, to Deutsche Forschungs- und Versuchsanstalt fur Luft- und Raumfahrt e.V. Process and system for programming robot movements. 4,677,568, 6-30-87, Cl. 364-513.000.
- Arbuthnot, Ian M.; Amm, Errol T.; and Davidson, Raymond J., to Delkor Technik (Proprietory) Ltd. of Delkor House. Apparatus and a method for separating one solid component from another solid component in suspension in a liquid. 4,692,240, 9-8-87, Cl. 209-254.000.
- Arc Rebuilders, Inc.: *See—*
  - Hayes, William, 4,650,572, Cl. 210-131.000.
- Arc Technologies Systems Ltd.: *See—*
  - Conradty, Claudio; Zollner, Dieter; Lauterbach-Dammler, Inge; and Taube, Thomas, 4,639,928, Cl. 373-93.000.
  - Hill, Dereck, 4,672,628, Cl. 373-93.000.
  - Schieber, Franz; Zollner, Dieter; Lauterbach, Inge; Koziol, Konrad; Zollner, Christine; and Taube, Thomas, 4,698,825, Cl. 373-93.000.
- Arcair Company: *See—*
  - Henderson, Harold R.; and Mosinski, David, 4,697,791, Cl. 266-48.000.
- ARCANA Chem. pharm. Fabrik Gesellschaft m.b.H.: *See—*
  - Hopfgartner, Johann; Hurka, Wilhelm; Grablowitz, Otto; and Kropp, Wolfgang, 4,652,442, Cl. 514-420.000.
- Arch, Alfred J.: *See—*
  - Drake, Cyril F.; Pitt, Gilles D.; Arch, Alfred J.; and Neat, Rosamund C., 4,652,097, Cl. 350-582.000.
- Archambeault, Bruce R.; and Rancour, David P., to United States of America, Air Force. Optical mark reader. 4,641,358, 2-3-87, Cl. 382-68.000.
- Archenholtz, Ake; and Folgero, Kare, to ASEA Aktiebolag. Melt-transfer device for the protected tapping of molten metal from one vessel to another. 4,684,109, 8-4-87, Cl. 266-216.000.
- Archer, Barry W.: *See—*
  - Reeder, Alfred R., Jr.; Lovett, Joe B.; and Archer, Barry W., 4,661,227, Cl. 204-186.000.
- Archer Daniels Midland Company: *See—*
  - Donovan, Dennis; McDonnell, Michael L.; Weigel, Gerald C.; and Long, John E., 4,708,877, Cl. 426-69.000.
- Archer, David H.; Bauer, Frank I.; and Vidt, Edward J., to Westinghouse Electric Corp. Process for electric power production using a biogas. 4,638,629, 1-27-87, Cl. 60-39.050.
- Archer, David H.; Hamm, James R.; and Vidt, Edward J., to Westinghouse Electric Corp. Method for energy conversion. 4,667,467, 5-26-87, Cl. 60-39.020.
- Archer, David H.; and Ahmed, M. Mushtaq, to Westinghouse Electric Corp. Method for increasing the efficiency of gas turbine generator systems using low BTU gaseous fuels. 4,677,829, 7-7-87, Cl. 60-39.020.
- Archer, Joel; Wassenhove, Denis V.; Pithouse, Kenneth B.; Buck, Leslie J.; Molyneux, Jeffrey P.; and Bradshaw, Peter S., to Raychem Limited. Fibre reinforced polymeric article. 4,709,948, 12-1-87, Cl. 285-381.000.
- Archer, Lee A., to Brand-Rex Company. Electrical connector. 4,648,678, 3-10-87, Cl. 339-99.00R.
- Archer, Michael F., to Physio-Control Corporation. Electrical connector. 4,671,591, 6-9-87, Cl. 439-346.000.
- Archer, Ronald D.; Hardiman, Christopher J.; Grybos, Ryszard; and Chien, James C. W., to United States of America, Navy. Transition and inner transition metal chelate polymers for high energy resist lithography. 4,693,957, 9-15-87, Cl. 430-269.000.
- Archer, Stephen: *See—*
  - Denham, Keith; and Archer, Stephen, 4,639,174, Cl. 411-34.000.
- Archer, Timothy H.: *See—*
  - Sutera, Richard; Dressler, John L.; and Archer, Timothy H., 4,667,207, Cl. 346-75.000.
- Archer, Virgil L.: *See—*
  - Smith, Donald P.; and Archer, Virgil L., 4,679,542, Cl. 126-21.00A.
- Archer, Wendel E.; Milton, James L.; Renaut, Paul W.; and Winquist, Nelson H., to AT&T Bell Laboratories. Relay switch apparatus. 4,638,274, 1-20-87, Cl. 335-52.000.
- Archer, William R., to General Electric Company. Electronic control circuit, electronically commutated motor system and method for controlling same, laundry apparatus, and methods for operating apparatus for switching high voltage DC and for controlling electrical load powering apparatus. 4,686,436, 8-11-87, Cl. 318-254.000.
- Archery Designs, Inc.: *See—*
  - Peck, Paul L., 4,644,929, Cl. 124-24.00R.
  - Peck, Paul L., 4,691,683, Cl. 124-35.00A.
- Archibald, David R.: *See—*
  - Archibald, Rodrick A.; and Archibald, David R., 4,662,642, Cl. 273-339.000.
- Archibald, David W., to D.A.R. Tech Limited. Variable speed conveyor apparatus. 4,645,191, 2-24-87, Cl. 270-39.000.
- Archibald, Frank R.: *See—*
  - Westhaver, Robert O.; Carow, Donald W.; and Archibald, Frank R., 4,655,096, Cl. 74-5.00F.
- Archibald, G. Kent; and Slaker, Frank A., to Minnesota Mining and Manufacturing Company. Sequence valve for piggyback IV administration with occlusion failure sensing. 4,637,817, 1-20-87, Cl. 604-81.000.
- Archibald, G. Kent; and Slaker, Frank A., to Minnesota Mining and Manufacturing Company. Sequence valve for piggyback IV administration. 4,673,389, 6-16-87, Cl. 604-81.000.
- Archibald, G. Kent, to Minnesota Mining & Manufacturing Company. Multiple solution IV system. 4,673,390, 6-16-87, Cl. 604-81.000.
- Archibald, G. Kent, to Minnesota Mining and Manufacturing Company. Multiple solution IV system with setup error protection. 4,705,506, 11-10-87, Cl. 604-81.000.
- Archibald, G. Kent; and Slaker, Frank A., to Minnesota Mining and Manufacturing Company. Sequence valve for piggyback IV administration with tube reversal prevention. 4,714,463, 12-22-87, Cl. 604-81.000.
- Archibald, James B.; and Rink, Frederick J., Jr., to General Electric Company. Internal common neutral bus in large three-phase generator. 4,642,498, 2-10-87, Cl. 310-71.000.
- Archibald, James B.: *See—*
  - Crounse, Kim H.; and Archibald, James B., 4,682,064, Cl. 310-61.000.
- Archibald, John L.; Ward, Terence J.; and Opalko, Albert, to John Wyeth & Brother Limited. Method of treating of preventing diseases using 1,4-dihydropyridines. 4,694,012, 9-15-87, Cl. 514-332.000.
- Archibald, Rodrick A.; and Archibald, David R. Roping dummy for practicing roping of calves. 4,662,642, 5-5-87, Cl. 273-339.000.
- Archibald, Stephen J. Cooking apparatus. 4,704,955, 11-10-87, Cl. 99-339.000.
- Architectural Glass Company, Inc., The: *See—*
  - Pratt, Sherwood L., 4,674,211, Cl. 40-564.000.
- Architectural Wall Systems, Inc.: *See—*
  - Mitchell, Terry L.; and Poortvliet, Robert J., 4,709,517, Cl. 52-36.000.

Archive Corporation: *See—*
- Buchan, William A., 4,644,420, Cl. 360-51.000.

Archuletta, Phil T.: *See—*
- Joseph, Daniel, Jr.; and Archuletta, Phil T., 4,655,435, Cl. 256-17.000.

Archung, Ralph; and Loetz, George C., to Boeing Company, The. Apparatus for centralized pressurization and depressurization of aircraft hydraulic reservoirs. 4,664,155, 5-12-87, Cl. 137-877.000.

Archung, Ralph, to Boeing Company, The. Hydraulic reserve system for aircraft. 4,704,865, 11-10-87, Cl. 60-405.000.

Archung, Ralph, to Boeing Company, The. Hydraulic system for aircraft. 4,711,089, 12-8-87, Cl. 60-405.000.

Arciero, Carlo; and Mynuddin, Mohammed K., to Ford Motor Company. Power steering system for an automotive vehicle having a power steering pump cut out circuit. 4,643,269, 2-17-87, Cl. 180-141.000.

Arciszewski, Bernhard; and Wiedeck, Hans-Norbert, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Rollable temporary roadway and apparatus for rolling up an installed temporary roadway. 4,681,482, 7-21-87, Cl. 404-25.000.

Arciszewski, Henry E.: *See—*
- Harris, Meade C., Jr.; Miller, David W.; and Arciszewski, Henry E., 4,687,673, Cl. 426-549.000.

Arcoa Industries: *See—*
- Tucker, Dalton R., 4,709,839, Cl. 223-119.000.

Arcuri, Kym B.: *See—*
- Mauldin, Charles H.; Davis, Stephen M.; and Arcuri, Kym B., 4,663,305, Cl. 502-304.000.

Ardabatsky, Vladimir P.: *See—*
- Volkhin, Nikolai N.; Ardabatsky, Vladimir P.; Dalya, Boris A.; Zhuravlev, Vitaly P.; and Stepanov, Alexandr V., 4,656,736, Cl. 29-730.000.
- Volkhin, Nikolai N.; Ardabatsky, Vladimir P.; and Luzin, Valery V., 4,700,468, Cl. 29-623.200.

Ardac, Inc.: *See—*
- Gorgone, Robert L., 4,645,936, Cl. 250-556.000.

Ardal OG Sunndal Verk A.S.: *See—*
- Berg, Otto, 4,687,524, Cl. 148-11.50A.
- Berg, Otto, 4,708,749, Cl. 148-11.50A.

Ardalan, Sasan H.; and Alexander, Samuel T., to North Carolina State University. Echo canceller using parametric methods. 4,677,668, 6-30-87, Cl. 379-411.000.

Ardco, Inc.: *See—*
- Niekrasz, Francis M.; Kasper, Melvin C.; and Bockwinkel, Gerald J., 4,641,461, Cl. 49-404.000.
- Niekrasz, Francis M.; Kaspar, Melvin C.; and Bockwinkel, Gerald J., 4,656,781, Cl. 49-404.000.

Ardelean, Jeffrey L. Adjustable socket. 4,676,125, 6-30-87, Cl. 81-53.200.

Arden, Sidney, to Glacial Confections, Inc. Frozen mousse and method of making same. 4,663,176, 5-5-87, Cl. 426-565.000.

Ardezzone, Frank J., to Probe-Rite, Inc. High density probe-head with isolated and shielded transmission lines. 4,636,722, 1-13-87, Cl. 324-158.00P.

Ardito, John D.: *See—*
- Dayton, Douglas C.; and Ardito, John D., 4,703,909, Cl. 248-280.100.
- Freni, Joseph L., Jr.; and Ardito, John D., 4,708,313, Cl. 248-649.000.

Arditty, Herve: *See—*
- Graindorge, Philippe; Arditty, Herve; and Lefevre, Herve, 4,705,399, Cl. 356-350.000.
- Huignard, Jean-Pierre; Arditty, Herve; and Puech, Claude, 4,659,223, Cl. 356-350.000.

Ardo, Ronald: *See—*
- Graham, Lawrence D.; Skelley, Richard A.; Fetsko, Daniel G.; and Ardo, Ronald, 4,673,021, Cl. 164-122.000.

Ardolf, Duane R.: *See—*
- Brown, Richard W.; and Ardolf, Duane R., 4,691,344, Cl. 379-106.000.

Ardron, Keith H.: *See—*
- Yuen, Peter S. L.; Campbell, Philip; Montin, John L.; and Ardron, Keith H., 4,645,635, Cl. 376-245.000.

Ardrox Inc.: *See—*
- Schiller, Harold, 4,713,144, Cl. 156-656.000.

Arduengo, Anthony J., to Du Pont de Nemours, E. I., and Company. Thermochromic arsenic and antimony compounds. 4,710,576, 12-1-87, Cl. 556-40.000.

Arduini, Carlo; Barboni, Renato; Castellani, Antonio; Ponzi, Ugo; Bielli, Paolo; and Contu, Salvatore, to Cselt-Centro Studi e Laboratori Telecomunicazioni S.p.A. Structure for a dichroic antenna. 4,701,765, 10-20-87, Cl. 343-897.000.

Areaux, Larry D.; and Dudley, Robert H., to Pre-Melt Systems, Inc. Process and apparatus for introducing metal chips into a molten metal bath thereof. 4,702,768, 10-27-87, Cl. 75-65.00R.

Areaux, Larry D.; and Dudley, Robert H., to Pre-Melt Systems, Inc. Method and apparatus for drying metal chips. 4,710,126, 12-1-87, Cl. 432-58.000.

Arechaga, John C., to Ametek, Inc. Backwound pre-stressed spring motor and method. 4,635,755, 1-13-87, Cl. 185-45.000.

Arechaga, Sabastian J.; Granell, Jose O. O.; Linan, Carmen S.; Vallejo, Alfonso P.; and Gabarro, Jose A. P., to Laboratorios Madaus Cerafarm, S.A. Process for the preparation of 5′-substituted 2-(3′-thienyl)-propionic acids. 4,690,945, 9-1-87, Cl. 514-448.000.

Arehart, Theodore A.; and Carey, Donald O., to United States of America, Energy. Chip breaking system for automated machine tool. 4,643,056, 2-17-87, Cl. 82-36.00A.

Arel Control Systems, Ltd.: *See—*
- El-Hanany, Uri; Lachish, Uri; Rotter, Shlomo; and Adler, Eli, 4,701,607, Cl. 250-205.000.

Arena, Christopher L.; and Prior, Robert L. Disabled shopping cart attachment. 4,706,975, 11-17-87, Cl. 280-33.99A.

Arenas, Alvaro E.; and Hooker, Caius C., to Cordis Corporation. Multi-mode guidewire. 4,676,249, 6-30-87, Cl. 128-657.000.

Arend, Donald P., to C & F Stamping Co., Inc. Mold closing apparatus. 4,708,625, 11-24-87, Cl. 425-589.000.

Arendale, William F.: *See—*
- Craig, Preston S.; and Arendale, William F., 4,678,328, Cl. 356-141.000.

Arends, Albert W.: *See—*
- Karklin, Roland; Arends, Albert W.; Brokoff, Terrance L.; Russell, Edward J.; and Greiner, James R., 4,676,938, Cl. 264-46.500.
- Whiteside, Robert C.; Arends, Albert W.; and Karklin, Roland, 4,666,544, Cl. 156-212.000.

Arends, Charles B.: *See—*
- Hoffman, Dwight K.; and Arends, Charles B., 4,708,996, Cl. 525-530.000.

Arends, Thomas C.: *See—*
- Tompkins, E. Neal; Arends, Thomas C.; and Barry, Michael W., 4,710,917, Cl. 370-62.000.

Arendt, Chris: *See—*
- Strazis, Steven L., 4,682,821, Cl. 301-37.00R.

Arendt, Gerhard; Brodbeck, Klaus-Peter; Engenhart, Reinhold; Schmidt, Viktor; and Wedler, Klaus, to Croon & Lucke Maschinenfabrik GmbH & Co. KG. Device for automatically attaching an arrow label. 4,642,965, 2-17-87, Cl. 53-118.000.

Arendt, Ronald H.: *See—*
- Pasco, Wayne D.; and Arendt, Ronald H., 4,678,683, Cl. 427-123.000.

Arene, Gilbert; Artaud, Robert; and Renaux, Charley, to Commissariat a l'Energie Atomique. Heat exchanger incorporating an auxiliary cooling device. 4,657,071, 4-14-87, Cl. 165-134.100.

Arenhold, Knut. Device for fixing a mud flap to the fender fold of a motor vehicle. 4,688,814, 8-25-87, Cl. 280-154.50R.

Arens Controls, Inc.: *See—*
- Gregory, Ted W., 4,696,203, Cl. 74-501.00R.

Arens, Erich. Retainer for releasable attachment of rails or the like to a support. 4,649,679, 3-17-87, Cl. 52-181.000.

Arens, Georges; and Staron, Philippe, to Societe Nationale Elf Aquitaine (Production). Method for the processing of recordings of signals resulting from a seismic exploration of a medium. 4,691,306, 9-1-87, Cl. 367-40.000.

Arensdorf, Stephen C.; Stromgren, Lawrence T.; and Goudreau, Noel, to Strom-Tec, Inc. Knee support. 4,691,697, 9-8-87, Cl. 128-80.00L.

Arentsen, Dik, to IHC Holland N.V. Apparatus for withdrawing a tube or pile which has been driven into the soil. 4,701,077, 10-20-87, Cl. 405-232.000.

Arenz, Mary M. Disposable litter box and sheet assembly. 4,646,685, 3-3-87, Cl. 119-1.000.

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- DeHaven, Vernet F.; and Warin, Francis J., 4,640,182, Cl. 89-47.000.
- DeHaven, Vernet F.; and Warin, Francis J., 4,671,164, Cl. 89-34.000.
- Stoner, Eugene M., 4,690,032, Cl. 89-43.010.

Ares, Roland A.; Jones, Robert A.; and Street, Norman E., to Hussmann Corporation. Reverse cycle heat reclaim coil and subcooling method. 4,711,094, 12-8-87, Cl. 62-90.000.

Aretz, Werner; Berscheid, Hans G.; Huber, Gerhard; Fehlhaber, Hans-Wolfram; Kraemer, Hans P.; Sedlacek, Hans-Harald; Ganguli, Bimal N.; Sood, Ratan S.; Gandhi, Julia; and Reddy, Gauknapalli C., to Hoechst Aktiengesellschaft. Anthracycline derivatives and their use as cytostatics. 4,713,371, 12-15-87, Cl. 514-34.000.

Arfaei, Ahmad; and Bennett, Everett W., to James River Graphics, Inc. Emulsion polymerization of methacrylonitrile in the presence of a cationic emulsifier as a vehicle for vesicular photography. 4,656,115, 4-7-87, Cl. 430-170.000.

Arfert, Horst F. W.: *See—*
- Lee, Harry W., Jr.; and Arfert, Horst F. W., 4,669,278, Cl. 62-380.000.

Arff, Heino, to ITW Ateco GmbH. Cleat system for sports shoes, especially football shoes. 4,698,923, 10-13-87, Cl. 36-128.000.

Arfsten, Nanning J.: *See—*
- Dislich, Helmut; Arfsten, Nanning J.; Schmidt, Helmut; Philipp, Gottfried; and Tuenker, Gerhard, 4,715,999, Cl. 264-1.100.

Argabright, Perry A.; and Rhudy, John S., to Marathon Oil Company. Oil recovery process and system. 4,687,586, 8-18-87, Cl. 252-8.551.

Argabright, Perry A.: *See—*
- Sydansk, Robert D.; and Argabright, Perry A., 4,683,949, Cl. 166-270.000.

Argaman, Gideon, to State of Israel - Ministry of Defence. Microwave diode phase shifter. 4,647,880, 3-3-87, Cl. 333-164.000.

Argazzi, Dennis J.: *See—*
- Gelinas, William A.; Holtz, Edwin R.; Argazzi, Dennis J.; Smigel, Robert L.; and Wiley, Dan W., 4,661,190, Cl. 156-273.500.

Argazzi, Ivo, to I.M.A. Industria Maccine Automatiche S.p.A. Device for supplying tubes in a positive manner to the processing line of tube-filling machines, and particularly tube-filing and boxing machines. 4,645,060, 2-24-87, Cl. 198-409.000.

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Argentini, Dino E., to Raytheon Company. Method for forming an insulator having a conductive surface. 4,711,859, 12-8-87, Cl. 437-209.000.

Argento, Benny J.: *See—*
  Bailey, Frederick E., Jr.; and Argento, Benny J., 4,701,474, Cl. 521-137.000.

Argintaru, Lazare; and Beuzer, Michel, to Alcatel Thomson Faisceaux Hertziens. Ultrahigh frequency active filter. 4,647,875, 3-3-87, Cl. 331-23.000.

Argintaru, Lazare; and Hebrard, Denis, to Alcatel Thomson Faisceaux Hertziens. Microwave discriminator and devices using said discriminator. 4,694,260, 9-15-87, Cl. 331-9.000.

Argon Corporation: *See—*
  Nussbaum, Otto J., 4,646,966, Cl. 237-49.000.

Argon, Gideon, to Salgad International Ltd. Shell launching assembly. 4,708,051, 11-24-87, Cl. 89-40.020.

Argon, Gideon, to Salgad International Ltd. Height adjustment apparatus for the firing barrel of a shell launcher. 4,708,052, 11-24-87, Cl. 89-41.010.

Argoud, Roger; and Muller, Jean-Noel, to Centre National de la Recherche Scientifique. Goniometric device particularly for X-ray or neutron diffractometry on monocrystals or any other sample. 4,658,411, 4-14-87, Cl. 378-81.000.

Argudo, Marcos A.: *See—*
  DeVore, Frank C.; and Argudo, Marcos A., 4,682,706, Cl. 220-276.000.

Arguin, Gerard, to Arguin Trailer Frames, Inc. Tandem trailer system. 4,673,191, 6-16-87, Cl. 280-408.000.

Arguin Trailer Frames, Inc.: *See—*
  Arguin, Gerard, 4,673,191, Cl. 280-408.000.

Argus Chemical Corporation: *See—*
  Fisch, Michael H.; Hegranes, Barbara A.; and Seubert, George A., Jr., 4,650,894, Cl. 558-71.000.
  Fisch, Michael H.; Hegranes, Barbara A.; and Seubert, George A., Jr., 4,707,509, Cl. 524-147.000.

Argy, Gilles; Grapin, Michel M.; and Marchal, Philippe, to Hutchinson S.A. Heat insulating means for piping subjected to thermal, hydrostatic and mechanical stresses, positioning thereof and processes for forming said insulating means. 4,660,861, 4-28-87, Cl. 285-45.000.

Argyrakis, Nikolaus, to Diehl GmbH & Co. Ammunition incorporating searching fuse with trajectory correctable during its final flight phase and method for combating armored target objects. 4,711,178, 12-8-87, Cl. 102-384.000.

Arhab, Rabah: *See—*
  Grunberg, Pierre; Hamelin, Rene-Louis; and Arhab, Rabah, 4,671,400, Cl. 192-111.00A.
  Sevennec, Yvon; and Arhab, Rabah, 4,650,056, Cl. 192-90.000.

Ari, Niyazi; and Linhofer, Gerhard, to BBC Brown, Boveri & Company, Limited. Phase shifter. 4,661,763, 4-28-87, Cl. 323-215.000.

Ari, Niyazi; Hansen, Diethard; Hoitink, Hendrik; and Schar, Hans, to BBC Brown, Boveri & Company, Limited. Protective device for a load connected to a power supply line of an electric power system. 4,672,523, 6-9-87, Cl. 363-50.000.

Ari, Suha V.; and Lieber, Glen L., to American Hospital Supply Corporation. Rapidly inflatable balloon catheter and method. 4,684,363, 8-4-87, Cl. 604-98.000.

Arians, Michael W. Sanitary device. 4,644,689, 2-24-87, Cl. 49-70.000.

Arias-Alvarez, Antonio J., to T & R Chemicals, Inc. Treatment of arthritis and arthritic conditions with sulfites and bisulfites. 4,657,764, 4-14-87, Cl. 424-162.000.

Arias, Beatriz; Kum, Humberto; and Galiasso, Roberto, to Intevep, S.A. Method of hydrocracking and method of preparing a catalyst therefor. 4,670,132, 6-2-87, Cl. 208-111.000.

Arias, Fredo, to T & R Chemicals, Inc. Method of treating the symptoms of the common cold. 4,689,223, 8-25-87, Cl. 424-154.000.

Arias, Jose A., to T & R Chemicals, Inc. Pyrethroid-containing pharmaceutical compositions. 4,675,313, 6-23-87, Cl. 514-65.000.

Arias, Jose A., to T & R Chemicals, Inc. Pyrethroid containing pharmaceutical compositions. 4,701,446, 10-20-87, Cl. 514-65.000.

Arieh, Simon; and Courvoisier, Guy, to Lange International S.A. Ski boot. 4,660,302, 4-28-87, Cl. 36-117.000.

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Arieh, Simon: *See—*
  Cottenceau, Remi; Fischer, Francois; and Arieh, Simon, 4,691,535, Cl. 66-144.000.
  Courvoisier, Guy; and Arieh, Simon, 4,660,303, Cl. 36-119.000.
  Courvoisier, Guy; and Arieh, Simon, 4,665,308, Cl. 219-548.000.

Aries Medical Incorporated: *See—*
  Neuman, Harold L.; and Lombardi, Edward J., 4,646,719, Cl. 128-1.00D.

Ariga, Keiki: *See—*
  Iwasaki, Tadayoshi; Ariga, Keiki; and Sato, Makoto, 4,709,578, Cl. 73-49.300.

Ariga, Sadakazu: *See—*
  Tanaka, Toshiyasu; and Ariga, Sadakazu, 4,654,523, Cl. 250-231.0SE.
  Tanaka, Toshiyasu; and Ariga, Sadakazu, 4,657,340, Cl. 350-96.200.

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  Hanaoka, Katsumi; Yamamoto, Yasuo; Arii, Kazuhiro; and Tanaka, Kazuhiro, 4,646,803, Cl. 150-52.00R.

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  Iwase, Taira; Ariizumi, Shoji; and Masuoka, Fujio, 4,649,412, Cl. 357-41.000.
  Segawa, Makoto; and Ariizumi, Shoji, 4,648,075, Cl. 365-200.000.

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  Matsushita, Seiji; Fujishima, Akira; Arika, Isao; and Nakamura, Joji, 4,675,634, Cl. 334-15.000.

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  Ishida, Tetsuyoshi; Okura, Kunio; Hanayama, Fumihiko; Yamada, Mutsuo; and Arikawa, Yoshijiro, 4,711,828, Cl. 429-12.000.
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  Kaneyasu, Masayoshi; Arima, Hideo; Ito, Mitsuko; Iwanaga, Shoichi; Sato, Nobuo; Noro, Takanobu; Ikegami, Akira; and Isogai, Tokio, 4,638,443, Cl. 364-497.000.
  Noro, Takanobu; Koakutsu, Yasumasa; Takeuchi, Tamio; Yano, Masao; Onoda, Seiichi; Arima, Hideo; Yokono, Hitoshi; and Tanei, Hirayoshi, 4,715,673, Cl. 350-96.200.

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  Ochiai, Kumi; Horie, Hiromichi; Arima, Itsuo; Morita, Mikio; and Kamohara, Hisato, 4,696,725, Cl. 252-62.540.

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  Morishita, Akira; Okamoto, Kyoichi; Nakagawa, Taiichi; Morikane, Hiroyuki; Hasegawa, Akinori; Arima, Takemi; and Kounou, Tadami, 4,712,451, Cl. 74-801.000.
  Morishita, Akira; Okamoto, Kyoithi; Gotoh, Toshihiko; Kako, Yukio; and Arima, Takemi, 4,715,243, Cl. 74-434.000.

Arima, Yoshitaka: *See—*
  Hirata, Tadashi; Ikeda, Hidekatsu; Arima, Yoshitaka; and Kashihara, Yoshihiko, 4,679,473, Cl. 83-157.000.

Arimatsu, Keiji: *See—*
  Setoyama, Eiji; Arimatsu, Keiji; and Ohshita, Youichi, 4,673,48, Cl. 204-298.000.

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  Erwin, Lewis; and Arimond, John, 4,674,885, Cl. 366-76.000.

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- Arimoto, Akira; Saito, Susumu; Tatsuno, Kimio; and Kataoka, Keiji, to Hitachi, Ltd.; and Hitachi Koki Co., Ltd. System for holding plural light beams in predetermined relative positions. 4,644,160, 2-17-87, Cl. 250-201.000.
- Arimoto, Akira: *See*—
  - Ohnuki, Nobutaka; Ojima, Masahiro; Arimoto, Akira; and Chinone, Naoki, 4,712,218, Cl. 372-38.000.
- Arimoto, Kathuhiko: *See*—
  - Takahashi, Kiyotaka; and Arimoto, Kathuhiko, 4,670,081, Cl. 156-384.000.
- Arimoto, Kazutami: *See*—
  - Furutani, Kiyohiro; Mashiko, Koichiro; and Arimoto, Kazutami, 4,710,789, Cl. 357-23.600.
  - Mashiko, Koichiro; Yamada, Michihiro; Arimoto, Kazutami; Miyamoto, Hiroshi; Kobayashi, Toshifumi; and Morooka, Yoshikazu, 4,641,281, Cl. 365-189.000.
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- Arimoto, Shunji: *See*—
  - Sakakibara, Shigeru; Arimoto, Shunji; Ishikawa, Hidenobu; and Maruyama, Osamu, 4,690,987, Cl. 525-502.000.
- Arimune, Hisao: *See*—
  - Katayama, Toshikazu; Shibata, Tsugio; and Arimune, Hisao, 4,645,722, Cl. 428-694.000.
  - Yamada, Takashi; Arimune, Hisao; and Maeda, Takashi, 4,680,742, Cl. 369-13.000.
- Arimura, Hirofumi: *See*—
  - Uemura, Yahiro; Ohmura, Takao; Ohmizu, Akimasa; Sumi, Akinori; Ohtani, Wataru; Sakanishi, Yoshitaka; Morise, Hiroshi; Arimura, Hirofumi; and Suyama, Tadakazu, 4,694,074, Cl. 530-417.000.
- Arino, Masao; and Kobayashi, Michio, to Jidosha Kiki Co., Ltd. Brake booster. 4,689,958, 9-1-87, Cl. 60-547.100.
- Arinobu, Ichirou, to Mitsubishi Denki Kabushiki Kaisha. Solid state overcurrent detector. 4,695,961, 9-22-87, Cl. 364-483.000.
- Arioka, Hiroyuki; Ishizaki, Hideki; and Ide, Toshiaki, to TDK Corporation. Magnetic recording medium. 4,666,754, 5-19-87, Cl. 428-141.000.
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  - Nishimatsu, Masaharu; Ide, Toshiaki; and Arioka, Hiroyuki, 4,639,389, Cl. 428-141.000.
  - Nishimatsu, Masaharu; Arioka, Hiroyuki; and Ishizaki, Hideki, 4,693,934, Cl. 428-336.000.
  - Nishimatsu, Masaharu; Takayama, Suguru; and Arioka, Hiroyuki, 4,701,375, Cl. 428-336.000.
  - Shimada, Shigeru; Nishimatsu, Masaharu; Arioka, Hiroyuki; and Kubota, Yuichi, 4,678,708, Cl. 428-336.000.
- Arisaka, Kouhei: *See*—
  - Arii, Kazuhiro; Tanaka, Teruaki; Sumida, Nobuyuki; and Arisaka, Kouhei, 4,637,563, Cl. 242-4.00B.
- Arisawa, Hiroshi: *See*—
  - Mita, Tsunemasa; Katoh, Ryoki; Sekimoto, Soichi; Shiratsuki, Yoshiyuki; and Arisawa, Hiroshi, 4,697,204, Cl. 357-74.000.
- Arisawa, Susumu: *See*—
  - Obe, Mitsuhiko; Kawai, Isamu; Nakata, Masaru; Oisi, Katumi; Shimizu, Yosaburo; Fukawatase, Katsushi; Nishikawa, Takao; Hinoue, Kenji; Arisawa, Susumu; Sato, Kenichi; Kurata, Yasunori; and Sato, Kengo, 4,650,242, Cl. 296-190.000.
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- Aristech Chemical Corporation: *See*—
  - Cullo, Leonard A.; Nagle, Elliott V., Jr.; Restelli, Edward F., Jr.; and Yogan, Thomas J., 4,705,770, Cl. 502-242.000.
  - Cullo, Leonard A.; and Shiring, Francis J., III, 4,711,869, Cl. 502-239.000.
  - Ehrig, Raymond J.; and Weil, Richard C., 4,707,524, Cl. 525-387.000.
  - Elias, Carole L.; and Fields, Marvin C., 4,654,124, Cl. 203-72.000.
- Aristo Graphic Systeme GmbH & Co. KG: *See*—
  - Cordes, Werner, 4,693,554, Cl. 350-244.000.
- Aristoff, Paul A., to Upjohn Company, The. Interphenylene carbacyclin derivatives. 4,668,814, 5-26-87, Cl. 560-51.000.
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- Arita, Kazutoyo: *See*—
  - Hashimoto, Kazuyoshi; Nakano, Tsuneo; Arita, Kazutoyo; Fukuyama, Goro; and Shimosato, Yoshio, 4,687,125, Cl. 226-21.000.
- Arita, Masanobu; Tanaka, Hisao; and Mogami, Yukio, to Kohjin Co., Ltd. Heat shrinkable laminated packaging material. 4,652,490, 3-24-87, Cl. 428-347.000.
- Arita, Masujiro: *See*—
  - Okumura, Munehiro; Kuwahara, Kazuo; Arita, Masujiro; Mori, Shingo; Ohmura, Tetsuya; Yamamoto, Osamu; and Ishii, Shinichi, 4,668,401, Cl. 210-650.000.
- Arita, Saiji: *See*—
  - Akiyama, Tetsuo; and Arita, Saiji, 4,657,504, Cl. 431-166.000.
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  - Ito, Tetsuo; Arita, Setsuo; and Kitaura, Wataru, 4,673,974, Cl. 358-108.000.
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  - Yamamoto, Kosei; Kaneyasu, Akira; and Arita, Yo, 4,681,863, Cl. 501-108.000.
- Arita, Yoshinobu: *See*—
  - Sakuma, Kazuhito; Arita, Yoshinobu; Sato, Masaaki; and Awaya, Nobuyoshi, 4,660,068, Cl. 357-49.000.
- Aritake, Masanori: *See*—
  - Sugita, Hiroshi; Iwasa, Tadanobu; Yasukawa, Takemasa; and Aritake, Masanori, 4,638,525, Cl. 15-250.360.
  - Sugita, Hiroshi; Yasukawa, Takemasa; and Aritake, Masanori, 4,658,463, Cl. 15-250.360.
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  - Tokairin, Hiroaki; Honma, Kazuo; Nakajima, Kichio; Nagasawa, Kiyoshi; and Aritake, Takeshi, 4,710,884, Cl. 364-513.000.
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- Aritomi, Koichiro: *See*—
  - Ijiri, Yasuo; Iri, Eiji; Oguchi, Toshitaro; and Aritomi, Koichiro, 4,703,997, Cl. 350-96.230.
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  - Nakajima, Kenji, 4,704,885, Cl. 72-50.000.
- Ariyoshi, Yasuo: *See*—
  - Takemoto, Tadashi; and Ariyoshi, Yasuo, 4,684,745, Cl. 560-41.000.
- Arizona Board of Regents: *See*—
  - Kuester, James L., 4,678,860, Cl. 585-14.000.
  - Sirkis, Murray D., 4,714,810, Cl. 219-10.55M.
- Arjmand, Masud; and Doddington, George R., to Texas Instruments Incorporated. Voice messaging system with pitch-congruent baseband coding. 4,667,340, 5-19-87, Cl. 381-31.000.
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  - Camus, Michel, 4,710,614, Cl. 235-380.000.
  - Fredenucci, Pierre, 4,710,422, Cl. 428-248.000.
  - Vallee, Antoine; and Cortinchi, Henri, 4,645,565, Cl. 162-123.000.
- Arjon Mfg. Corporation: *See*—
  - Anastos, Arleen R., 4,660,715, Cl. 206-0.800.
- Arkans, Edward J.: *See*—
  - Coble, Stephen J.; and Arkans, Edward J., 4,681,569, Cl. 604-253.000.
- Arkansas Hones Inc.: *See*—
  - Atkinson, Charles; and Moody, Carl, 4,662,897, Cl. 51-293.000.
- Arkansas Patents, Inc.: *See*—
  - Davis, Robert E., 4,637,792, Cl. 431-1.000.
  - Davis, Robert E., 4,651,712, Cl. 126-110.00R.
- Arkansas Precision Hydraulics, Inc.: *See*—
  - Purkott, Hans D., 4,691,617, Cl. 91-167.00R.
- Arkebauer, Harry H. Irrigation control. 4,657,183, 4-14-87, Cl. 239-64.000.
- Arkema, Jan. Snorkel. 4,708,135, 11-24-87, Cl. 128-201.110.
- Arkenbout, Gerardus J.: *See*—
  - Thijssen, Henricus A. C.; and Arkenbout, Gerardus J., 4,666,456, Cl. 23-296.000.
- Arkin, Karlie J.: *See*—
  - Sutton, Jimmy; Shearer, Wanda; Arkin, Karlie J.; Spoelstra, Jeffrey A.; Weiss, Steven M.; Ramsey, Sherry L.; Hurlbut, Kyle; Culbertson, W. Bruce; and Burns, Robert R., 4,649,499, Cl. 364-518.000.
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Arlington Automatics Inc.: *See—*

  Magee, Robert L., Jr.; and Traweek, Marvin B., IV, 4,638,860, Cl. 166-114.000.

  Magee, Robert L., Jr.; and Traweek, Marvin B., IV, 4,671,352, Cl. 166-186.000.

Arlington, David L.; Chen, Chin-Long; and Evans, Edward K., to International Business Machines Corporation. Extended error correction for package error correction codes. 4,661,955, 4-28-87, Cl. 371-38.000.

Arlott, Colin: *See—*

  Russell, Michael K.; and Arlott, Colin, 4,714,403, Cl. 415-107.000.

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  Lantzsch, Reinhard; Arlt, Dieter; and Jautelat, Manfred, 4,663,465, Cl. 549-4.000.

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Armand, Michel: *See—*

  Skotheim, Terje; and Armand, Michel, 4,637,969, Cl. 429-111.000.

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Armantrout, Henry M.; and Stuart, Peter W. Clampless jig for servicing and repairing skis. 4,669,713, 6-2-87, Cl. 269-43.000.

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  Conigliaro, Anthony; St. Hilaire, Arthur; and De Yoreo, Sal G., 4,682,740, Cl. 241-282.100.

Armature Coil Equipment, Inc.: *See—*

  Heran, Robert F.; and Koptis, Robert A., 4,649,834, Cl. 110-190.000.

Armaturenfabrik Wallisellen AG: *See—*

  Egli, Werner, 4,705,072, Cl. 137-625.170.

ArmaturJonsson AB: *See—*

  Hillerstrom, Bjorn I., 4,645,001, Cl. 165-159.000.

Armbrust, Robert W.: *See—*

  Fanelli, Anthony J.; Maeland, Arnulf J.; Armbrust, Robert W.; and Rak, George, 4,675,465, Cl. 585-654.000.

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  Bagdal, Karl T., 4,662,708, Cl. 350-6.900.

  Chou, Yung-Sen, 4,697,828, Cl. 285-18.000.

  Christ, Christy; Campbell, Herbert F.; Fields, Gayle P.; and Burn James L., 4,716,075, Cl. 428-285.000.

  Crawford, R. A., 4,667,697, Cl. 137-543.170.

  Debarbieri, Franco; Montorsi, Roberto; and Zaramella, Giancarl 4,642,752, Cl. 364-167.000.

  Gorman, Mark D., 4,640,722, Cl. 148-325.000.

  Holming, Robert; Nelson, Robert S.; and Daley, Thomas R 4,715,546, Cl. 241-171.000.

  Kilbane, Farrell M.; and Dunbar, F. Curtiss, 4,686,155, C 428-653.000.

  Neiheisel, Gary L., 4,708,482, Cl. 356-376.000.

  Reeves, William E.; and Cobb, Jasper E., III, 4,653,271, C 60-494.000.

  Wright, Wade S.; Voisine, John T.; and Huppi, Glenn S., 4,677,57 Cl. 364-562.000.

Armenta, Richard; Gibbons, Ian; and Olson, John, to Syntex (U.S.A Inc. Reducing background interference activity in enzyme-labe immunoassays. 4,668,620, 5-26-87, Cl. 435-7.000.

Armer, John, to RCA Corporation. Ripple-borrow binary subtractio circuit. 4,685,079, 8-4-87, Cl. 364-784.000.

Armer, Leon N., Jr.; Antonio, Joseph M.; Roth, Craig A.; and Ver-Weire, James R. Simulated war game weapon. 4,684,137, 8-4-87, C 273-428.000.

Armer, Leon N., Jr.; Antonio, Joseph M.; Roth, Craig A.; and Ver-Weire, James R. Land mine for use in a simulated war game 4,690,061, 9-1-87, Cl. 102-401.000.

Armes, Paul W. Gasoline engine choking arrangement. 4,699,73 10-13-87, Cl. 261-64.600.

Armes, William P.; Cherniski, Andrew M.; Hanaway, Richard W.; and Hathaway, James C., to American Hospital Supply Corp. Automatic specimen analyzing system. 4,676,951, 6-30-87, Cl. 422-65.000.

Armijo, Joseph S.: *See—*

  Cheng, Bo-Ching; Rosenbaum, Herman S.; and Armijo, Joseph S., 4,659,540, Cl. 376-417.000.

Armington, Steven E., to Ranpak Corp. Mechanism for producing pad-like cushioning dunnage product from sheet material with separate stock roll cart. 4,650,456, 3-17-87, Cl. 493-464.000.

Armitage, David, to United States of America, Air Force. Differentiating spatial light modulator. 4,643,533, 2-17-87, Cl. 350-350.00S.

Armitage, David, to United States of America, Air Force. Spatial light modulator having a capacitively coupled photoconductor. 4,655,554, 4-7-87, Cl. 350-386.000.

Armitage, David, to United States of America, Air Force. Micromirror spatial light modulator. 4,698,602, 10-6-87, Cl. 332-7.510.

Armitage, J. Herbert, to Genstar Structures Limited. Precast concrete dome system. 4,680,901, 7-21-87, Cl. 52-81.000.

Armitage, Jack R.; and Haymore, Ralph B., to Envirotech Corporation. Ragless propeller draft tube mixer. 4,647,215, 3-3-87, Cl. 366-266.000.

ARMO Gesellschaft fur Bauelemente, Bau - und Wohnbedarf GmbH: *See—*

  Quante, Heinrich, 4,713,910, Cl. 49-49.000.

Armond, Joseph A.: *See—*

  Littwin, Kenneth M.; Armond, Joseph A.; Buky, Gabriel R.; and Patrick, Fred, 4,639,921, Cl. 361-151.000.

  Littwin, Kenneth M.; Armond, Joseph A.; and Patrick, Fred, 4,672,345, Cl. 335-284.000.

Armond, Paul A.; and Orr, Peter M., to Dekalb-Pfizer Genetics. Protogyny in *Zea mays*. 4,677,246, 6-30-87, Cl. 800-1.000.

Armonier, Ulrich: *See—*

  Klein, Hans-Christof; Armonier, Ulrich; Oesterle, Hermann; and Jendroska, Juergen, 4,641,519, Cl. 73-129.000.

Armor, John N.: *See—*

  Marsh, Gary B.; Fanelli, Anthony J.; Armor, John N.; and Zambri, Patrick M., 4,649,037, Cl. 423-338.000.

  Marsh, Gary B.; Fanelli, Anthony J.; Armor, John N.; and Zambri, Patrick M., 4,713,233, Cl. 423-608.000.

Armor Metals, Inc.: *See—*

  Rodgers, E. Walter, 4,658,418, Cl. 379-328.000.

  Rodgers, E. Walter, 4,712,232, Cl. 379-329.000.

Armour-Dial, Inc.: *See—*

  Gupta, Shyam K.; and Story, Julian R., 4,704,223, Cl. 252-132.000.

Armour, Jon C.: *See—*

  Gough, David A.; Lucisano, Joseph Y.; Armour, Jon C.; and McKean, Brian D., 4,703,756, Cl. 123-635.000.

Armour Pharmaceutical Company: *See—*

  Orlowski, Ronald C.; Stahl, Glenn L.; and Colescott, Robert L., 4,639,509, Cl. 530-307.000.

  Orlowski, Ronald C.; Seyler, Jay K.; and Stahl, Glenn L., 4,639,510, Cl. 530-307.000.

  Orlowski, Ronald C.; and Seyler, Jay K., 4,639,511, Cl. 530-307.000.

  Orlowski, Ronald C.; Seyler, Jay K.; Colescott, Robert L.; Stahl, Glenn L.; Enkoji, Takashi; Geever, James E.; and Flanigan, Everett, 4,659,804, Cl. 530-307.000.

Armour Products: *See—*

  Picone, Syd; and Picone, Terrence F., 4,652,337, Cl. 156-654.000.

Armoza, Ehud: *See—*

  Granot, Daniel; Servi, Rami, and Armoza, Ehud, 4,703,926, Cl. 271-90.000.

Servi, Rami; Eidelberg, Boaz; Granot, Daniel; Armoza, Ehud; and Sher, Ephraim, 4,708,333, Cl. 270-45.000.

rmstrong, Albert L.; and Goodrich, Joel L., to M/A-COM, Inc. Process for fabricating semiconductor components. 4,692,998, 9-15-87, Cl. 437-225.000.

rmstrong, Allen E.; Benveniste, Victor M.; and Ryding, Geoffrey, to Eaton Corporation. Ion implanter target chamber. 4,672,210, 6-9-87, Cl. 250-492.200.

rmstrong, Archie E.; and East, William S., to Westinghouse Electric Corp. Vertical to horizontal adapter for a belt grinding machine. 4,669,224, 6-2-87, Cl. 51-135.00R.

rmstrong-Blum Manufacturing Co.: *See—*

Yakich, John L., 4,658,689, Cl. 83-801.000.

rmstrong, Bradford A.: *See—*

Coker, Gregory F.; and Armstrong, Bradford A., 4,651,890, Cl. 220-85.00R.

rmstrong, Bruce G.; and Principi, Fabio, to Raytheon Company. Power switched read-only memory. 4,686,651, 8-11-87, Cl. 365-226.000.

rmstrong, Douglas C. Universal kit for spar-mounted mount for radar antenna. 4,659,044, 4-21-87, Cl. 248-218.400.

rmstrong, Ennels D. Anti-theft device. 4,683,737, 8-4-87, Cl. 70-253.000.

rmstrong, Gregory J.: *See—*

Doering, Robert R.; Duane, Michael P.; and Armstrong, Gregory J., 4,677,739, Cl. 29-576.00B.

Doering, Robert R.; and Armstrong, Gregory J., 4,696,092, Cl. 437-5.000.

rmstrong International, Inc.: *See—*

Fischer, David W., 4,675,505, Cl. 219-295.000.

rmstrong, James A., to Garsite Products, Inc. Easy opening lid. 4,669,625, 6-2-87, Cl. 220-18.000.

rmstrong, Jean: *See—*

Siebert, Gary R., and Armstrong, Jean, 4,636,478, Cl. 436-500.000.

rmstrong, John H.: *See—*

Andreasen, David A.; Armstrong, John H.; Buggert, Jerrold E.; Desai, Harshad K.; Baumgardner, Stephen D.; Buckmaster, Kenneth E.; and Hussain, Zubair, 4,695,946, Cl. 364-200.000.

rmstrong, John M.; and Ettenhofer, Michael E. Water sampling apparatus. 4,660,423, 4-28-87, Cl. 73-864.520.

rmstrong, Larry. Method of forming a decorative panel of molded plastic. 4,656,722, 4-14-87, Cl. 29-527.200.

rmstrong, Maclay M.; and Houser, Steven A., to Unitek Corporation. J-hook force-adjustable and disconnectible connector for orthodontic headgear. 4,704,086, 11-3-87, Cl. 433-5.000.

rmstrong, Max D., to Williams, Robert J., a part interest. Automatic or standard transmission handling device. 4,691,904, 9-8-87, Cl. 269-17.000.

mstrong, Michael J.: *See—*

Worrell, Williams R.; Laroche, Robert N.; and Armstrong, Michael J., 4,637,666, Cl. 312-196.000.

mstrong Patents Co. Ltd.: *See—*

Poyser, John, 4,638,896, Cl. 188-299.000.

mstrong, Richard J., to Bernard Marks and Company Limited. Gas burner. 4,639,215, 1-27-87, Cl. 431-354.000.

mstrong, Richard J., to Microglass, Inc. Wafer carrier and method. 4,653,636, 3-31-87, Cl. 206-334.000.

mstrong, Richard J., to Microglass, Inc. Cage-type wafer carrier and method. 4,676,008, 6-30-87, Cl. 34-237.000.

mstrong, Robert B.; Jongenburger, Huibert S.; and Sadhukhan, Pasupati, to M. W. Kellogg Company, The. Apparatus for contacting fluid with solid. 4,648,999, 3-10-87, Cl. 261-77.000.

mstrong, Robert B.: *See—*

Ezernack, Daniel D.; and Armstrong, Robert B., 4,695,367, Cl. 208-106.000.

mstrong, Robert F.: *See—*

Norris, Daniel A.; Lowery, James O.; and Armstrong, Robert F., 4,644,098, Cl. 174-115.000.

mstrong, Ronald B. Manhole casting positioning apparatus. 4,666,333, 5-19-87, Cl. 404-26.000.

mstrong, Stuart: *See—*

Short, Roger V.; and Armstrong, Stuart, 4,665,086, Cl. 514-416.000.

mstrong, Thomas: *See—*

Bremer, Gordon; Armstrong, Thomas; Holmquist, Kurt, and Smith, Richard K., 4,645,871, Cl. 380-2.000.

mstrong, Timothy G.; Kroll, Arthur S.; and Shuster, Frank A., to Eastman Kodak Company. Biased scavenging grid for electrographic pparatus. 4,647,186, 3-3-87, Cl. 355-15.000.

mstrong World Industries, Inc.: *See—*

Bohrn, Walter J.; Lewis, Robert D.; and Moggio, William A., 4,713,084, Cl. 8-561.000.

Brown, David S.; Forry, John S.; Mentzer, Nancy E.; and Misselhorn, Donald J., 4,676,937, Cl. 264-42.000.

Davey, Raymond G.; Dees, Martin, Jr.; and Sigman, Daniel M., Jr., 4,709,631, Cl. 101-129.000.

Eckert, Donald C.; George, J. Richard; Lilley, George L.; Sensenig, Darryl L.; and Tshudy, James A., 4,654,244, Cl. 428-47.000.

Garrick, John R.; and Himmelberger, Karl B., 4,646,955, Cl. 225-3.000.

Ginter, Richard E., 4,662,121, Cl. 51-141.000.

Herr, Richard E., Jr.; Kauffman, William J.; and Landers, Cheryl W., 4,699,820, Cl. 428-142.000.

Herweh, John E., 4,650,846, Cl. 526-268.000.

Herweh, John E., 4,652,399, Cl. 252-518.000.

Herweh, John E.; Echterling, Garry K.; and Setthachayanon, Songvit, 4,672,098, Cl. 526-268.000.

Hoffer, Roy D., 4,697,122, Cl. 315-158.000.

Lenox, Ronald S.; Schwartz, Anne L.; and Hoyle, Charles E., 4,640,885, Cl. 430-197.000.

Miller, Jesse D., Jr.; Tshudy, James A.; and Unruh, Ralph E., 4,689,259, Cl. 428-142.000.

Shannon, Paul J., 4,637,896, Cl. 252-299.700.

Tymon, Thomas M., 4,707,298, Cl. 252-378.00R.

Welk, Kenneth L., 4,664,616, Cl. 425-373.000.

Arnall, Harry L. Caliper. 4,654,974, 4-7-87, Cl. 33-149.00B.

Arnau Manresa, Luis M., to Exin-Iber, S.A. Toy vehicle. 4,643,102, 2-17-87, Cl. 104-305.000.

Arnaud D'Avitaya, Francois; Campidelli, Yves; and Pantel, Roland. Process and apparatus for the growth of films of silicides of refractory metals and films obtained by this process. 4,643,914, 2-17-87, Cl. 427-93.000.

Arnaud, Jean-Claude; and Bore, Pierre, to L'Oreal. Process for evaluating the state of the surface of keratinous fibres and a composition for making use of this process. 4,642,294, 2-10-87, Cl. 436-5.000.

Arnaud, Jean-Louis; and Floret, Michel, to Societe Nationale Industrielle et Aerospatiale. Process and device for the detection of cracks in riveted joints using an eddy current probe. 4,677,379, 6-30-87, Cl. 324-242.000.

Arnaud, Jean P. Astigmatic optical element, its manufacturing process, illuminating apparatus including the same and articles treated by the same. 4,639,100, 1-27-87, Cl. 350-611.000.

Arnaud, Johnny, to Hydrotreat, Inc. Filter apparatus. 4,686,038, 8-11-87, Cl. 210-232.000.

Arnaudeau, Marcel; and Rousset, Philippe, to Institut Francais du Petrole. Feed device for a two-phase fluid pump and a hydrocarbon producing installation with such feed device. 4,641,679, 2-10-87, Cl. 137-88.000.

Arnaudet, Lucile; and Folcher, Gerard, to Commissariat a l'Energie Atomique. Novel uranium compounds, their preparation process and their use as catalysts for the hydrogenation of unsaturated organic compounds. 4,642,337, 2-10-87, Cl. 534-11.000.

Arnberg, Peter W. Method and apparatus for measuring load bearing capacity of traffic-carrying surfaces. 4,658,639, 4-21-87, Cl. 73-84.000.

Arnberg, Peter W. Laser plane apparatus for measuring characteristics of traffic-bearing surfaces. 4,685,806, 8-11-87, Cl. 356-376.000.

Arnce, John W., to Plush, Richard Lee, Jr. Quick change self-oiling sprocket hub. 4,711,635, 12-8-87, Cl. 474-152.000.

Arnco Corporation: *See—*

Conti, Allen C., 4,692,063, Cl. 405-177.000.

Arndt, Douglas C.: *See—*

Hedgcoth, Virgil; and Arndt, Douglas C., 4,705,299, Cl. 283-68.000.

Martin, Timothy S.; and Arndt, Douglas C., 4,702,194, Cl. 118-31.500.

Arndt, Friedrich: *See—*

Harre, Michael; Kruger, Hans-Rudolf; Arndt, Friedrich; and Rusch, Reinhart, 4,709,077, Cl. 560-056.000.

Arndt, Friedrich-Karl; and Fritz, Karlheinz, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Hydraulic striking device. 4,646,854, 3-3-87, Cl. 173-134.000.

Arndt, George, to Wynn Oil Company. Lubricant additive concentrate containing isomerized jojoba oil. 4,664,821, 5-12-87, Cl. 252-32.70E.

Arndt, Jentzsch; Schumann, Guenter; and Stellmacher, Wolfgang, to VEB Kombinat Polygraph "Werner Lamberz" Leipzig. Method and device for removing spots from a printing plate. 4,686,901, 8-18-87, Cl. 101-148.000.

Arndt, John L.; and Koo, Karlson, to Verbatim Corporation. Magnetic recording element having a lubricative and protective coating. 4,689,254, 8-25-87, Cl. 428-65.000.

Arndt, Michael; and Sehnem, Hans P., to Bayer Aktiengesellschaft. Process for the preparation of alkylthioacetamidines. 4,713,490, 12-15-87, Cl. 564-225.000.

Arndt, Otto; and Papenfuhs, Theodor, to Hoechst Aktiengesellschaft. Process for the preparation of 2,6-dichlorobenzoxazole. 4,658,034, 4-14-87, Cl. 548-217.000.

Arndt, Peter J.: *See—*

Schlosser, Fritz; Arndt, Peter J.; Mueller, Manfred; and Janssen, Lothar, 4,672,105, Cl. 560-217.000.

Wenzel, Franz; Arndt, Peter J., and Siol, Werner, 4,636,458, Cl. 430-270.000.

Wenzel, Franz; Arndt, Peter J.; and Siol, Werner, 4,709,000, Cl. 526-320.000.

Arneklev, Duane R.: *See—*

Pallos, Ferenc M.; Brokke, Mervin E.; and Arneklev, Duane R., 4,708,735, Cl. 71-118.000.

Arnel, Donald M., to Hallmark Cargo Services, Inc. Coding assembly. 4,643,064, 2-17-87, Cl. 83-522.000.

Arnell, Anders, to Affarsverket FFV. Projectile guide mechanism. 4,702,436, 10-27-87, Cl. 244-328.000.

Arnell Inc.: *See—*

Rabinowitz, Lewis, 4,653,480, Cl. 128-62.00A.

Arnemann, Gerhard, to Baas Technik GmbH. Apparatus for loading and unloading bulk materials and/or piece goods. 4,643,295, 2-17-87, Cl. 198-594.000.

Arneson, Dean A.: *See—*

Saperstein, Z. Philip; Arneson, Dean A.; Larrabee, Scott R.; Logic, Jeffrey A.; Costello, Norman F.; and Awe, Russell C., 4,688,311, Cl. 29-157.30R.

- Arneson, Harold N.: *See—*
  - Cudahy, Michael J.; De La Huerga, Carlos; Arneson, Harold N.; Divers, R. Thomas; and Altman, Barry J., 4,715,385, Cl. 128-710.000.
- Arneson, Howard M. Marine outdrive apparatus. 4,645,463, 2-24-87, Cl. 440-57.000.
- Arneson, Howard M. Article buffing apparatus and method. 4,691,400, 9-8-87, Cl. 15-3.000.
- Arneson Products, Inc.: *See—*
  - Frentzel, Herman E., 4,643,217, Cl. 137-112.000.
  - Frentzel, Herman E., 4,654,141, Cl. 210-232.000.
- Arnett, Edward M. Apparatus for handling hazardous materials. 4,652,204, 3-24-87, Cl. 414-751.000.
- Arnett, Richard K., to General Motors Corporation. Solder fluxing method and apparatus. 4,684,544, 8-4-87, Cl. 427-96.000.
- Arney, Donald B. Collapsible liquid container particuiarly for transportation by helicopter. 4,640 328, 2-3-87, Cl. 150-55.000.
- Arney, Donald B. Personnel rescue apparatus for use on water. 4,642,061, 2-10-87, Cl. 441-83.000.
- Arney, Donald B. Inflatable float assembly and undercarriage for aircraft. 4,697,762, 10-6-87, Cl. 244-101.000.
- Arney, Michel D.; and LaCount, Clifford E., to Wang Laboratories, Inc. Apparatus for attaching cable to a keyboard. 4,684,185, 8-4-87, Cl. 439-502.000.
- Arnheim, Norman: *See—*
  - Mullis, Kary B.; Erlich, Henry A.; Arnheim, Norman; Horn, Glenn T.; Saiki, Randall K.; and Scharf, Stephen J., 4,683,195, Cl. 435-6.000.
- Arnhem, Erik M.: *See—*
  - Wilson, Johnnie L., 4,656,895, Cl. 81-177.800.
- Arnold, Allan J. Auxiliary handle for a door. 4,686,742, 8-18-87, Cl. 16-112.000.
- Arnold, Allen J.; Courtney, Mark G.; Kirby, Diane N.; Mis, Katherine H.; and Sutton, Kerry L., to International Business Machines Corporation. Environmentally secure and thermally efficient heat sink assembly. 4,715,430, 12-29-87, Cl. 165-80.300.
- Arnold, Ben: *See—*
  - Arnold, Ben A., 4,649,561, Cl. 378-207.000.
- Arnold, Ben A., to Arnold, Ben. Test phantom and method of use of same. 4,649,561, 3-10-87, Cl. 378-207.000.
- Arnold, Brian K.: *See—*
  - Sare, Ian R.; Henderson, Ian D.; Heijkoop, Teunis; Bosworth, Michael R.; Aspin, Ronald E.; and Arnold, Brian K., 4,635,701, Cl. 164-102.000.
- Arnold, Bruce M., to International Mileage Master, Ltd. Heated fuel vapourizer and slidable throttle valve. 4,667,643, 5-26-87, Cl. 123-545.000.
- Arnold, Charles, Jr.; and Assink, Roger, to United States of America, Energy. Sulfonated polysulfone battery membrane for use in corrosive environments. 4,714,663, 12-22-87, Cl. 429-101.000.
- Arnold, Ernst, to Meteor AG. Apparatus and process for winding electrical coils. 4,635,865, 1-13-87, Cl. 242-7.030.
- Arnold, Fred E.: *See—*
  - Lindley, Patricia M.; Reinhardt, Bruce A.; and Arnold, Fred E., 4,683,340, Cl. 568-331.000.
  - Tan, Loon-Seng; and Arnold, Fred E., 4,675,370, Cl. 526-259.000.
  - Tan, Loon-Seng; and Arnold, Fred E., 4,711,964, Cl. 548-461.000.
  - Tsai, Tsu-Tzu; and Arnold, Fred E., 4,709,006, Cl. 528-208.000.
  - Unroe, Marilyn R.; Reinhardt, Bruce A.; and Arnold, Fred E., 4,667,002, Cl. 526-259.000.
  - Unroe, Marilyn R.; Reinhardt, Bruce A.; and Arnold, Fred E., 4,683,309, Cl. 544-353.000.
- Arnold, G.: *See—*
  - Powers, Steven J., 4,685,213, Cl. 30-123.000.
- Arnold, George D. M.: *See—*
  - Thoma, Christian H.; and Arnold, George D. M., 4,635,535, Cl. 91-498.000.
  - Thoma, Christian H.; and Arnold, George D. M., 4,686,829, Cl. 60-464.000.
- Arnold, George D. Mc.: *See—*
  - Thoma, Christian H.; Arnold, George D. Mc.; and Blair, Arthur A., 4,691,512, Cl. 60-456.000.
- Arnold, Gunter: *See—*
  - Maier, Peter; Hansel, Gernot; Henzler, Rolf; Walter, Hartmut; and Arnold, Gunter, 4,665,617, Cl. 30-374.000.
- Arnold, Heinz B.; and Workman, Clayton E., to Henkel Corporation. Adhesive composition. 4,663,371, 5-5-87, Cl. 524-343.000.
- Arnold, Herbert; Jundt, Werner; Malicki, Siegfried; and Werner, Peter, to Robert Bosch GmbH. Arrangement for the metering of fuel in an internal combustion engine. 4,653,450, 3-31-87, Cl. 123-479.000.
- Arnold, Herbert; Bosch, Walter; Horbelt, Michael; Maisch, Wolfgang; Nusser, Hermann; Peters, Klaus-Jurgen; Werner, Peter; and Willke, Clemens, to Robert Bosch GmbH. Position sensor for a movable part in a motor vehicle. 4,693,111, 9-15-87, Cl. 73-118.100.
- Arnold, Herbert; Horbelt, Michael; and Jundt, Werner, to Robert Bosch GmbH. Method and apparatus for replacement of data and of a data memory in an automotive-type electronic control system. 4,713,812, 12-15-87, Cl. 371-10.000.
- Arnold, Herbert S.: *See—*
  - Sugam, Richard J.; and Arnold, Herbert S., 4,686,853, Cl. 73-61.200.
- Arnold, Hubert E., to Rolls-Royce plc. Turbomachine rotor blade fixings and method for assembly. 4,684,325, 8-4-87, Cl. 416-215.000.
- Arnold, Larry J., to Arnold Technologies, Inc. Self locking sheet metal screw. 4,705,441, 11-10-87, Cl. 411-188.000.
- Arnold, Marc E.; and Marcus, Mitchell S., to Hasco International, In System for package photoprinting. 4,637,712, 1-20-87, Cl. 355-75.0
- Arnold, Michael. Duplex outlet protection device. 4,643,502, 2-17-8 Cl. 339-36.000.
- Arnold, Michael. Extension cord connector guard. 4,702,541, 10-27-8 Cl. 439-304.000.
- Arnold, Michael J.: *See—*
  - Cole, Derek; and Arnold, Michael J., 4,674,714, Cl. 244-134.00B
- Arnold Muller GmbH & Co KG: *See—*
  - Wurst, Karl-Heinz, 4,686,402, Cl. 310-83.000.
- Arnold, Paul C.: *See—*
  - Bills, Daniel G.; Arnold, Paul C.; Dodgen, Stephen L.; and Va Cleve, Craig B., 4,636,680, Cl. 313-7.000.
- Arnold, Peter: *See—*
  - Hunold, Klaus; Lipp, Alfred; Reinmuth, Klaus; Arnold, Peter; an Napholcz, Johannes, 4,687,655, Cl. 423-344.000.
- Arnold, Peter S.: *See—*
  - Ide, Allan R.; Parks, William R.; and Arnold, Peter S., 4,668,8 Cl. 318-280.000.
- Arnold, Philip D., to General Motors Corporation. Crankcase structure. 4,690,112, 9-1-87, Cl. 123-195.00R.
- Arnold, Ronald D.; Baker, Samuel F.; and Goodman, Billy R., to Tex Iron Works, Inc. Retrievable well bore assembly. 4,646,842, 3-3-8 Cl. 166-382.000.
- Arnold, Rose L.: *See—*
  - Willey, Donald E., 4,635,306, Cl. 5-431.000.
- Arnold, Rudolf, to Claas Saulgau GmbH. Front attachment of fie chopping machine for picking and transporting stalk fruits standing rows. 4,633,657, 1-6-87, Cl. 56-98.000.
- Arnold, Scott, to Professional Agricultural Management, Inc. Foli fertilization method and compounds. 4,652,294, 3-24-87, C 71-28.000.
- Arnold, Sieghard E.; and Nitschke, Manfred E., to International Business Machines Corporation. Cutting device for paper and foil web particularly for printers, plotters, copiers and similar machine 4,665,787, 5-19-87, Cl. 83-485.000.
- Arnold Technologies, Inc.: *See—*
  - Arnold, Larry J., 4,705,441, Cl. 411-188.000.
- Arnold, Werner; Grasser, Hans; Kruger, Tilmann; and Meisner, Alfre to Diehl GmbH & Co. Method for entering a switching program in an electronic timer and arrangement for implementing the metho 4,684,261, 8-4-87, Cl. 368-107.000.
- Arnold, Werner: *See—*
  - Ding, Wolfgang; and Arnold, Werner, 4,696,527, Cl. 439-53.000.
  - Martischius, Franz-Dieter; Karau, Dieter; Arnold, Werner; an Barthold, Klaus, 4,675,348, Cl. 523-323.000.
- Arnold, Wesley C., to Rockwell International Corporation. Reame with unequally spaced flutes. 4,662,803, 5-5-87, Cl. 408-224.000.
- Arnold, William M.; and Zimmermann, Ulrich, to Kernforschungsanlage Julich Gesellschaft mit beschrankter Haftung. Process and devic for the differentiation of particles in a medium. 4,634,669, 1-6-87, C 435-173.000.
- Arnold, William T., to Brouwer Turf Equipment Limited. Mowe 4,644,737, 2-24-87, Cl. 56-249.000.
- Arnold, William T., to Brouwer Turf Equipment Limited. Mowe 4,680,922, 7-21-87, Cl. 56-7.000.
- Arnold, Wolfgang: *See—*
  - Siol, Werner; Arnold, Wolfgang; and Vetter, Heinz, 4,647,489, C 428-119.000.
- Arnoldi, Douglas R., deceased; and Arnoldi, Walter E., administrato to Pitney Bowes Inc. Thickness compensating means for mailin machine. 4,705,413, 11-10-87, Cl. 400-56.000.
- Arnoldi, Walter E., administrator: *See—*
  - Arnoldi, Douglas R., deceased; and Arnoldi, Walter E., administrator, 4,705,413, Cl. 400-56.000.
- Arnolds, Gerhard: *See—*
  - Grothe, Horst; and Arnolds, Gerhard, 4,705,094, Cl. 164-426.000
- Arnoldt, Fredrick J.: *See—*
  - Arnoldt, Peter J.; and Arnoldt, Fredrick J., 4,639,574, C 219-125.100.
- Arnoldt, Peter J.; and Arnoldt, Fredrick J., to Ductmate Industries, In Automatic duct welding machine. 4,639,574, 1-27-87, Cl. 219-125.10
- Arnoldt, Peter J., to Ductmate Industries, Inc. Flange type duct join assembly and seal arrangement therefor. 4,662,661, 5-5-87, C 285-363.000.
- Arnone, Claudio: *See—*
  - Ehrlich, Daniel J.; Arnone, Claudio; and Rothschild, Mordeca 4,668,528, Cl. 427-53.100.
- Arnone, Louis F., III: *See—*
  - Schlueter, Gary R.; Kettlitz, Karsten K.; and Arnone, Loui[illegible], III. 4,672,718, Cl. 24-90.00A.
- Arnone, Robert A.; and Holyer, Ronald J., to United States of America Navy. Method for determining an angstrom exponent for correctin satellite color scanner images. 4,661,907, 4-28-87, Cl. 364-420.000.
- Arnone, Ronald; and Ferguson, Keith, to E. R. Squibb & Sons, In Adapter for use with two piece ostomy system. 4,642,107, 2-10-87, C 604-342.000.
- Arnott, Eric J. Posterior chamber lens implant. 4,701,181, 10-20-87, C 623-6.000.
- Arnott, Robert C., to Milliken Research Corporation. Process for hea treating textile substrates to give a colored pattern. 4,680,032, 7-14-8 Cl. 8-486.000.
- Arnott, Robert C., to Milliken Research Corporation. High contras patterning process and product for disperse dyed polyeste 4,680,034, 7-14-87, Cl. 8-481.000.

rnould, Emmanuel; and Dugre, Jean-Pierre, to Compagnie Industrielle des Telecommunications Cit-Alcatel. Discrete cosine transform calculation processor. 4,675,836, 6-23-87, Cl. 364-725.000.

rnould, Emmanuel; and Dugre, Jean-Pierre, to Compagnie Industrielle des Telecommunications Cit-Alcatel. Inverse discrete cosine transform calculation processor. 4,679,163, 7-7-87, Cl. 364-725.000.

rnoux, Daniel; Genter, Claude; Anton, Christian; and Nascimben, Eric, to Societe Chauvin Arnoux. Hall-effect current clamp. 4,704,575, 11-3-87, Cl. 324-117.00H.

rnoux, Daniel; Genter, Claude; and Anton, Christian, to Societe Chauvin Arnoux. Multi-wavelength light emitting and receiving apparatus for monitoring connections by optical fibers. 4,708,422, 11-24-87, Cl. 350-96.150.

rnoux, Daniel; Genter, Claude; Anton, Christian; and Forme, Jacques, to Bleris. Plane-structure quantified analog display unit and analog measuring device comprising such a display unit. 4,716,412, 12-29-87, Cl. 340-753.000.

rns, James A.: *See—*
- Wreede, John E.; and Arns, James A., 4,687,720, Cl. 430-2.000.

rnstein, Robert A.: *See—*
- Chandler, Van S.; and Arnstein, Robert A., 4,695,883, Cl. 358-138.000.

rnsteiner, Anton, to Blizzard Gesellschaft m.b.H. Ski with improved running surface. 4,635,954, 1-13-87, Cl. 280-604.000.

rntz-Optibelt-KG: *See—*
- Borchardt, Horst, 4,710,251, Cl. 156-137.000.

rntzen, Paul; Pirk, Hans; Vietzke, Horst; and Wingender, Hans, to Nukem GmbH. Container for the final storage of radioactive wastes. 4,650,518, 3-17-87, Cl. 420-3.000.

ro Corporation, The: *See—*
- Perhach, John M.; Porter, Charles E., Jr.; and Maloney, David C., 4,715,215, Cl. 73-49.300.
- Quinn, Bryan J., 4,649,957, Cl. 137-625.640.

obotech Systems, Inc.: *See—*
- Lessway, Richard J., 4,647,097, Cl. 294-88.000.
- Lessway, Richard J., 4,647,100, Cl. 294-119.100.
- Lessway, Richard J., 4,650,237, Cl. 294-119.100.

rold, Klaus; Koukal, Heinz; Grimm, Hermann, deceased (by Grimm, Christel, executrix); and Trube, Hans, to Daimler-Benz Aktiengesellschaft. Heating or air-conditioning system for vehicles. 4,693,417, 9-15-87, Cl. 237-12.30B.

rold, Klaus; Grimm, Hermann, deceased (by Grimm, Christel, executrix); and Koukal, Heinz, to Daimler-Benz Aktiengesellschaft. Heat exchanger for the independent heating of the driver and front-seat passenger side of a motor vehicle. 4,712,608, 12-15-87, Cl. 165-41.000.

ron, Jerome, to Kuhn S.A. Haymaking machine for the tedding. 4,656,821, 4-14-87, Cl. 56-370.000.

ron, Jerome; and Engel, Alfred, to Kuhn S.A. Farm machines having flexible skirts for moving agricultural products on the ground. 4,693,065, 9-15-87, Cl. 56-377.000.

ronov, Victor A. Methods for improving mechanical properties of partially stabilized zirconia and the resulting product. 4,703,024, 10-27-87, Cl. 501-103.000.

ronowitz, Sheldon, to Fairchild Semiconductor Corporation. Method of controlling dopant diffusion and dopant electrical activation by implanted inert gas atoms. 4,689,667, 8-25-87, Cl. 357-63.000.

ronsohn, Valerie M. Device and method for minimizing implant effects. 4,662,356, 5-5-87, Cl. 128-1.00R.

ronson, Eric G.: *See—*
- Van Iperen, Willem H. P.; Sandt, Henry J., Jr.; and Aronson, Eric G., 4,695,211, Cl. 410-77.000.

ronsson, Tore A.: *See—*
- Andreasson, Bo C.; Donnerdal, Jan O.; and Aronsson, Tore A., 4,633,832, Cl. 123-335.000.

ronstam, Peter S.: *See—*
- Yasuda, Arthur K.; Kennedy, William S.; and Aronstam, Peter S., 4,715,469, Cl. 181-102.000.

rora, Arvind, to Photoacoustic Technology, Inc. Automation control apparatus. 4,704,905, 11-10-87, Cl. 73-596.000.

rora, Sudershan K.: *See—*
- Rao, Chennupati K.; Arora, Sudershan K.; Grover, Raman; Durden, John A.; and D'Silva, Themistocles D. J., 4,637,901, Cl. 260-544.00C.

rora, Vas D.; Gill, William A.; and Patrick, Charles L., to FMC Corporation. Lightweight integral pup joint with split female sub. 4,634,154, 1-6-87, Cl. 285-353.000.

ros Hydraulik GmbH: *See—*
- Lochner, Kaspar; Schurmann, Helmut; and Brand, Erich, 4,686,057, Cl. 252-62.000.

rotin, Robert L.; Walworth, Bryant L.; and Marini, Michele E., to American Cyanamid Company. Nitro- and cyanoguanidines as selective preemergence herbicides and plant defoliants. 4,639,268, 1-27-87, Cl. 71-105.000.

rots, Joseph B., to Calgon Corporation. Process for detackification of paint spray operation wastes. 4,686,047, 8-11-87, Cl. 210-712.000.

roues, Marc: *See—*
- Portmann, Jacques; and Aroues, Marc, 4,647,955, Cl. 357-24.000.

rp, Robert A.; Conroy, W. Patrick; Miller, Curtis H.; and Weinzetl, James M., to Micromedics, Inc. Modular sterilizing system. 4,643,303, 2-17-87, Cl. 206-370.000.

rpaia, Michael A. Pressurized fuel carburetor for an internal combustion engine. 4,656,987, 4-14-87, Cl. 123-463.000.

rpe, Hans-Jurgen; Litterer, Heinz; and Mayer, Norbert, to Hoechst Aktiengesellschaft. Process for preparing p-chlorotoluene and/or m-chlorotoluene. 4,650,915, 3-17-87, Cl. 570-202.000.

Arpi Co.: *See—*
- Molnar, Arpad A., 4,671,550, Cl. 293-120.000.

Arpin, Pierre P. Portable heart massage apparatus. 4,702,231, 10-27-87, Cl. 128-28.000.

Arpin, Rene, to Rhone-Poulenc Specialities Chimiques. Protective products for treating fresh concrete or mortar to prevent excessive evaporation, process for preparing such products, and treated fresh concrete or mortar. 4,656,005, 4-7-87, Cl. 422-43.000.

Arpino, Ronald G.: *See—*
- Borsari, Allen S.; Brym, Stanley J.; Markure, Laura A.; and Arpino, Ronald G., 4,692,589, Cl. 219-251.000.

Arquati, Ettore. Support frame for an awning having a one-piece fabric cover. 4,655,010, 4-7-87, Cl. 52-63.000.

Arquati, Ettore. Motor-driven curtain operating unit. 4,683,935, 8-4-87, Cl. 160-331.000.

Arques, Marc; and Portmann, Jacques, to Thomson-CSF. Output compensation for charge transfer devices. 4,654,816, 3-31-87, Cl. 364-862.000.

Arques, Marc, to Thomson-CSF. Base clipping process for a solid state photosensitive device. 4,685,117, 8-4-87, Cl. 377-60.000.

Arquette, Robert E.: *See—*
- Howland, Warren W.; Arquette, Robert E.; and Wu, Shang-Ren, 4,692,169, Cl. 44-51.000.

Arragon, Jean-Pierre; Cantou, Christian; and Marie, Gerard J. M., to La Radiotechnique. Pseudo-random binary sequency generator. 4,649,419, 3-10-87, Cl. 380-20.000.

Arragon, Jean-Pierre; and Michel, Jean-Pierre, to U.S. Philips Corporation. Arrangement for deciphering and decoding television pictures encoded in accordance with the MAC standard and scrambled at transmission by submitting the video signals to cyclic permutations. 4,691,352, 9-1-87, Cl. 380-14.000.

Arragon, Jean-Pierre C.: *See—*
- Marie, Gerard J. M.; and Arragon, Jean-Pierre C., 4,672,425, Cl. 358-12.000.

Arrang, Jean-Michel; Garbarg, Monique; Lancelot, Jean-Charles; Lecomte, Jeanne-Marie; Robba, Max-Fernand; and Schwartz, Jean-Charles, to Institut National de la Sante et de la Recherche Medicale (Inserm); Universite de Caen; and Societe Civile Bioprojet. (4-imidazolyl)piperidines, the preparation thereof and their application in therapy. 4,707,487, 11-17-87, Cl. 514-326.000.

Arraudeau, Jean-Pierre; Patraud, Jeanne; and Le Gall, Louis, to L'Oreal. Cosmetic make-up composition. 4,659,562, 4-21-87, Cl. 424-63.000.

Arregui, Manuel; Diaz, Rafael; Gamon, Vicente; and Yarza, Javier. Radial piston pump. 4,645,428, 2-24-87, Cl. 417-273.000.

Arrendiell, Robert; and Ellis, Gwendolyn E. Nested plastic extension slide. 4,712,927, 12-15-87, Cl. 384-23.000.

Arrey, Kelly J.; and Berrada, Samir, to Canadian National Railway Company. Articulated hopper railcar. 4,644,871, 2-24-87, Cl. 105-4.100.

Arrhenius, Gustaf O.: *See—*
- Jensen, Eric A.; Hitchin, James; Tsai, Albert G.; and Arrhenius, Gustaf O., 4,696,338, Cl. 165-1.000.

Arri, Luis E.: *See—*
- Gash, Bruce W.; Arri, Luis E.; Hunt, Elton B., Jr.; and Parrish, David R., 4,648,450, Cl. 166-259.000.
- Puri, Rajen; Arri, Luis F.; and Gash, Bruce W., 4,662,443, Cl. 166-261.000.

Arrigoni, Giordano. Apparatus for dispensing pigments. 4,637,527, 1-20-87, Cl. 222-144.000.

Arrigoni, John P.; and Carlson, Kenneth C., to United Technologies Corporation. Hand operated grinding wheel with surface area and depth control. 4,644,701, 2-24-87, Cl. 51-241.00S.

Arrington, John P.: *See—*
- Shen, Nelson M.; and Arrington, John P., 4,659,217, Cl. 356-73.100.
- Shen, Nelson M.; Moisson, Marc F.; Arrington, John P.; and Tayeb, AbdulMohamed, 4,705,347, Cl. 350-96.150.

Arrington, Stephen T.; and Bradley, Gary W., to Halliburton Company. Method of removing iron and copper-containing scale from a metal surface. 4,666,528, 5-19-87, Cl. 134-2.000.

Arriola, Arturo: *See—*
- McCord, Marion; Arriola, Arturo; and Cowen, Steven J., 4,644,399, Cl. 358-1[illegible].000.

Arrow Art Finishers Co.: *See—*
- Smith, Jerrold A., 4,646,922, Cl. 211-186.000.

Arrow Fastener Company, Inc.: *See—*
- Knispel, Barry; and Wingert, Rudolf, 4,643,345, Cl. 227-156.000.
- Knispel, Barry; and Wingert, Rudolf, 4,706,869, Cl. 227-156.000.
- Wingert, Rudolf, 4,700,876, Cl. 227-131.000.

Arrow International, Inc.: *See—*
- Johans, Thomas G., 4,644,960, Cl. 128-786.000.

Arrow, Martin, to Sanity Marine Products. Fighting chair and rod holder. 4,682,438, 7-28-87, Cl. 43-21.200.

Arrow Oil Tools, Inc.: *See—*
- Clifton, Ted G.; and Brookey, Robert L., 4,640,351, Cl. 166-127.000.

Arrow Specialty Company: *See—*
- Geary, William C.; and Zabel, Leland M., 4,664,071, Cl. 123-41.100.

Arrowhead Puritas Waters, Inc.: *See—*
- Johansen, David L.; and van Le, Hung, 4,664,349, Cl. 248-150.000.

Arrowsmith, John E.; Campbell, Simon F.; Cross, Peter E.; and Dickinson, Roger P., to Pfizer Inc. 2-(2-quinazolinylaminoalkoxymethyl)-1,4-dihydropyridine derivatives as cardiovascular agents. 4,647,565, 3-3-87, Cl. 514-260.000.

- Arrowsmith, John E.: *See—*
  - Campbell, Simon F.; Cross, Peter E.; Stubbs, John K.; and Arrowsmith, John E., 4,661,485, Cl. 514-247.000.
  - Campbell, Simon F.; Cross, Peter E.; Stubbs, John K.; and Arrowsmith, John E., 4,670,449, Cl. 514-341.000.
- Arroyo, Juan. Surgical instrumentation for blood vessels. 4,681,109, 7-21-87, Cl. 128-335.000.
- Arroyo, Juan. Surgical instrumentation including a clamp assembly to facilitate attachment of blood vessel sections. 4,715,377, 12-29-87, Cl. 128-335.000.
- Arru, Piero; Bona, Gioachino; Curcio, Maria; and Vallana, Franco, to Sorin Biomedica S.p.A. Cardiac valve prosthesis with valve flaps of biological tissue. 4,666,442, 5-19-87, Cl. 623-2.000.
- Arruda, Michael. Waste oil collection device. 4,697,670, 10-6-87, Cl. 184-1.500.
- Arruti, Cristina: *See—*
  - Guedon born Saglier, Isabelle; Barritault, Denis; Courtois, Yves; Arruti, Cristina; and Prunieras, Michel, 4,670,257, Cl. 424-95.000.
- ARS Edge Co. Ltd.: *See—*
  - Takigawa, Shigetsugu; and Takigawa, Masuhiko, 4,709,480, Cl. 30-254.000.
- Arsenault, Michael J.: *See—*
  - Reimels, Harry G.; Walsh, David A.; and Arsenault, Michael J., 4,705,500, Cl. 604-35.000.
- Arseneau, Roger E., to Siemens Gammasonics, Inc. Method and integrator circuit for integrating signals, in particular for scintillation gamma camera. 4,692,890, 9-8-87, Cl. 364-733.000.
- Arsenian, John J., to Panaram Alpine Corporation Inc. Ski trainer. 4,669,723, 6-2-87, Cl. 272-97.000.
- Arsenian, Sergei G.: *See—*
  - Debabov, Vladimir G.; Tsygankov, Jury D.; Chistoserdov, Andrei J.; Sverdlov, Evgeny D.; Izotova, Lara S.; Kostrov, Sergei V.; Sterkin, Viktor E.; Kuznetsov, Vladimir P.; Belyaev, Sergei V.; Monastyrskaya, Galina S.; Salomatina, Irina S.; Dolganov, Grigory M.; Arsenian, Sergei G.; Tsarev, Sergei A.; Kozlov, Jury I.; Strongin, Alexandr Y.; Ogarkov, Vsevolod I.; and Ovchinnikov, Jury A., 4,680,260, Cl. 435-68.000.
- Arstikaitis, Arunas A.: *See—*
  - Joy, Ira L.; Arstikaitis, Arunas A.; and Troulias, James R., 4,700,014, Cl. 174-31.00R.
- Arsura, Emilio; Capizzi, Amedeo; Cassani, Giorgio; Spinelli, Pia; and Tonini, Cristina, to Montedison S.p.A. Sexual attracting mixtures for *Cossus cossus* (Lepidoptera). 4,656,032, 4-7-87, Cl. 424-84.000.
- Arsura, Emilio: *See—*
  - Capizzi, Amedeo; Spinelli, Pia; and Arsura, Emilio, 4,715,536, Cl. 239-54.000.
- Arszman, Jerrold H.: *See—*
  - Betts, Robert E.; and Arszman, Jerrold H., 4,672,881, Cl. 89-1.816.
- Art Metal U.S.A., Inc.: *See—*
  - Wetz, Leonard R., Jr., 4,693,100, Cl. 70-333.00A.
- Art Systems, Inc.: *See—*
  - Walsh, Richard F.; Franks, James A.; and Martin, Richard R., 4,658,371, Cl. 364-550.000.
- Artaud, Robert; Aubert, Michel; and Renaux, Charley, to Commissariat a l'Energie Atomique. East neutron reactor having a storage structure independent of the core structure. 4,655,996, 4-7-87, Cl. 376-272.000.
- Artaud, Robert: *See—*
  - Arene, Gilbert; Artaud, Robert; and Renaux, Charley, 4,657,071, Cl. 165-134.100.
- Arteon, Marcel: *See—*
  - Zipf, Eckart; Arteon, Marcel; and Verde, Patric, 4,703,595, Cl. 52-125.400.
- Arterburn, Robert B., to Gates Rubber Company, The. Hose with coextruded cover consisting of multiple foamed or nonfoamed layers. 4,644,977, 2-24-87, Cl. 138-137.000.
- Arterburn, Russell D.: *See—*
  - Smith, Henry D., Jr.; Arterburn, Russell D.; and Miller, John H., 4,692,178, Cl. 65-2.000.
- Arterbury, Bryant A.; and Spangler, James E., to Howard Smith Screen Company. Well screen centralizer and method for constructing centralizer and for joining of well screens. 4,681,161, 7-21-87, Cl. 166-227.000.
- Arthrex Arthroscopy Instruments, Inc.: *See—*
  - Schmieding, Reinhold, 4,633,869, Cl. 128-303.00R.
- Arthroplasty Research & Development (Pty) Ltd.: *See—*
  - Grobbelaar, Charl J., 4,673,408, Cl. 623-20.000.
- Arthun, Nils: *See—*
  - Lofgren, Peter; and Arthun, Nils, 4,674,655, Cl. 222-48.000.
  - Lofgren, Peter; and Arthun, Nils, 4,685,494, Cl. 141-65.000.
- Arthur A. Collins, Inc.: *See—*
  - Collins, Arthur A., 4,701,907, Cl. 370-63.000.
- Arthur B. Myr Industries, Inc.: *See—*
  - Roberts, Jessie E., 4,664,060, Cl. 118-326.000.
- Arthur D. Little, Inc.: *See—*
  - Rona, Mehmet, 4,706,251, Cl. 372-4.000.
- Arthur, Frank H., to Envopak Group Limited. Security seal with rupturable wall. 4,690,444, 9-1-87, Cl. 292-324.000.
- Arthur G. Russell Company, Incorporated, The: *See—*
  - Bartlett, Maynard L., 4,711,337, Cl. 198-391.000.
  - Buchas, Gerald L., 4,660,031, Cl. 340-792.000.
- Arthur, Hugh M.; and Labbe, Francis A. M., to Molins Limited. Apparatus for applying fluid additive to fibrous material. 4,646,675, 3-3-87, Cl. 118-63.000.
- Arthur, Hugh M., to Molins PLC. Filter rod manufacture. 4,661,090, 4-28-87, Cl. 493-44.000.
- Arthur, Hugh M.; Mills, John A.; and Wood, Godfrey A., to Molins plc. Manufacture of ventilated cigarettes. 4,665,930, 5-19-87, Cl. 131-281.000.
- Arthur, James C.; and Baldwin, Freddie A., to Arvin Industries, Inc. Tuned exhaust manifold. 4,689,952, 9-1-87, Cl. 60-313.000.
- Arthur, John A.: *See—*
  - Sirois, Normand W.; and Arthur, John A., 4,700,168, Cl. 337-327.000.
- Arthur Pfeifer Vakuummtechnik Wetzlar GmbH: *See—*
  - Fabel, Ludwig, 4,652,214, Cl. 417-45.000.
- Arthur Pfeiffer Vakuumtechnik Wetzlar GmbH: *See—*
  - Hack, Robert; and Strzala, Helmut, 4,708,190, Cl. 164-76.100.
- Arthur, Robert M., to Tech-Line Instruments. Respirometer module with replaceable sample chamber. 4,650,767, 3-17-87, Cl. 435-291.00
- Arthur Schmid AG: *See—*
  - Principe, Viktor, 4,662,293, Cl. 112-234.000.
- Artificial Lift Systems, Inc.: *See—*
  - Gordon, Bernard L., 4,664,602, Cl. 417-56.000.
- Artos Engineering Company: *See—*
  - Blaha, Gerald; and Dusel, Robert O., 4,663,822, Cl. 29-564.400.
  - Dusel, Robert O.; and Keene, Harold J., 4,649,621, Cl. 29-564.40
  - Dusel, Robert O.; Keene, Harold J.; Berres, James; and Blaha, Gerald, 4,713,880, Cl. 29-564.400.
  - Gudmestad, Ragnar, 4,672,871, Cl. 83-151.000.
  - Moline, Edward F., 4,707,913, Cl. 29-753.000.
  - Randar, Magnus; and Kroening, Terry R., 4,638,904, Cl. 198-468.200.
  - Thorkildsen, Finn; Pepin, Thierry; and Lunde, Tom, 4,653,160, Cl. 29-33.00M.
- Artronics Corporation: *See—*
  - Santomango, Anthony; and Hatheway, Nicholas N., Jr., 4,636,725, Cl. 324-158.00F.
  - Santomango, Anthony; and Hatheway, Nicholas N., Jr., 4,636,726, Cl. 324-158.00F.
- Artun, Berkan; and Goy, Helmut. Circuit arrangement for synchronizing of clock-signal generated at a receiving station with clock-signals received in telecommunications systems with digital transmission of information. 4,644,567, 2-17-87, Cl. 375-108.000.
- Arturo Salice, S.p.A.: *See—*
  - Salice, Luciano, 4,674,148, Cl. 16-258.000.
  - Salice, Luciano, 4,674,150, Cl. 16-382.000.
  - Salice, Luciano, 4,701,979, Cl. 16-346.000.
- Artus, Heinz: *See—*
  - Heidel, Peter; Kaulich, Franz; and Artus, Heinz, 4,657,801, Cl. 428-137.000.
- Artz, Gerd; Figge, Dieter; and Philipp, Clemens, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Guide assembly for a twin-belt continuous casting mold. 4,679,612, 7-14-87, Cl. 164-431.000.
- Artz, Glen D.; and Grant, Louis R., to United States of America, Army. Solid H_2/D_2 gas generators. 4,673,528, 6-16-87, Cl. 252-188.250.
- Artz, Klaus; Meyer, Hans R.; Reinehr, Dieter; and Weber, Kurt, to Ciga-Geiby Corporation. Stilbene derivatives. 4,684,744, 8-4-87, Cl. 558-388.000.
- Artz, Steven P., to Du Pont de Nemours, E. I., and Company. Herbicidal sulfonamides. 4,678,498, 7-7-87, Cl. 71-87.000.
- Artz, Steven P., to Du Pont de Nemours, E. I., and Company. Herbicidal acetylenic pyrimidines and triazines. 4,689,069, 8-25-87, Cl. 71-90.000.
- Artzi, Gad B. Snow chains for vehicles. 4,708,035, 11-24-87, Cl. 81-15.800.
- Artzt, Peter; Egbers, Gerhard; and Rottmayr, Hans, to Schubert & Salzer. Process and apparatus for rejoining a thread on an open-end friction-spinning device. 4,633,660, 1-6-87, Cl. 57-263.000.
- Artzt, Peter; Muller, Heinz; Egbers, Gerhard; Bohm, Gunther; Wittmann, Stephan; and Karl, Rupert. Process and apparatus for preparing a cut-to-length thread end for the re-piecing of an open-end spinning machine. 4,653,260, 3-31-87, Cl. 57-263.000.
- Artzt, Peter; Muller, Heinz; Egbers, Gerhard; Grimm, Eberhard; and Schreyer, Franz, to Schubert & Salzer. Process and device for starting spinning on an open-end spinning apparatus. 4,676,059, 6-30-87, Cl. 57-263.000.
- Artzt, Peter; Rottmayr, Hans; and Bauer, Wolfgang, to Schubert & Salzer. Process and apparatus for friction spinning. 4,679,388, 7-14-87, Cl. 57-263.000.
- Artzt, Peter; Rottmayr, Hans; and Bauer, Wolfgang, to Schubert & Salzer. Open-end spinning device. 4,697,411, 10-6-87, Cl. 57-401.000.
- Artzt, Peter; and Miller, Heinz, to Schubert & Salzer. Process and device for the production of a fancy yarn on open-end spinning devices. 4,698,962, 10-13-87, Cl. 57-409.000.
- Artzt, Peter; Muller, Heinz; Ziegler, Kurt; Egbers, Gerhard; and Wokaun, Jacek, to Schubert & Salzer. Process and apparatus for eliminating dust from fiber material. 4,700,431, 10-20-87, Cl. 19-105.000.
- Aruga, Masayoshi: *See—*
  - Kagatani, Seiya; Hasumi, Shunji; Sonobe, Takashi; and Aruga, Masayoshi, 4,690,952, Cl. 514-808.000.
  - Kawata, Hiroitsu; Aruga, Masayoshi; Ohmura, Tadayoshi; Sonobe, Takashi; Yoneya, Satoru; and Sone, Chiharu, 4,673,564, Cl. 424-494.000.
  - Konno, Yutaka; Kawata, Hiroitsu; Aruga, Masayoshi; Sonobe, Takashi; and Mitomi, Mitsuo, 4,637,930, Cl. 424-28.000.
  - Konno, Yutaka; Kawata, Hiroitsu; Aruga, Masayoshi; Sonobe, Takashi; and Mitomi, Mitsuo, 4,685,911, Cl. 604-897.000.
- Aruga, Tamotsu: *See—*
  - Murakami, Kakuji; Akutsu, Eiichi; and Aruga, Tamotsu, 4,680,235, Cl. 428-414.400.

  - Shimada, Masaru; Kawanishi, Toshiyuki; Murakami, Kakuji; Aruga, Tamotsu; Uemura, Hiroyuki; and Nagai, Kiyofumi, 4,647,310, Cl. 106-22.000.
  - Shimada, Masaru; Kawanishi, Toshiyuki; Murakami, Kakuji; Aruga, Tamotsu; Uemura, Hiroyuki; and Nagai, Kiyofumi, 4,711,668, Cl. 106-22.000.
  - Shimada, Masaru; Kawanishi, Toshiyuki; Murakami, Kakuji; Aruga, Tamotsu; and Uemura, Hiroyuki, 4,713,113, Cl. 106-22.000.
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  - Arulanandan, Kandiah; and Arulanandan, Shiva, 4,654,598, Cl. 324-354.000.
- Arundale, Inc.: *See—*
  - Corkery, Gregory O. C., 4,682,393, Cl. 29-130.000.
- Arunkumar, Koovappadi A., to Spectron Development Laboratories, Inc. Fiber optic magnetic field sensor. 4,675,522, 6-23-87, Cl. 250-227.000.
- Arute, William J.: *See—*
  - Spargo, Thomas W.; and Arute, William J., 4,665,892, Cl. 126-194.000.
- Arutjunian, Norair S.; Kornena, Elena P.; Kazarian, Robert V.; Ponomareva, Natalya A.; Redko, Grigory V.; Sakhno, Lidia T.; and Zhidkova, Irina S., to Krasnodarsky Politekhnichesky Institut. Method for preparation of phosphatide concentrates from vegetable oils. 4,713,155, 12-15-87, Cl. 204-155.000.
- Arvanitis, Aristotelis S., to Motorola, Inc. Laser trimming monolithic crystal filters to frequency. 4,642,505, 2-10-87, Cl. 310-312.000.
- Arvay, Joseph E.: *See—*
  - Fritz, Leonard; Osterberg, Richard R.; Wolanski, Richard B.; and Arvay, Joseph E., 4,655,437, Cl. 266-197.000.
- Arvesen, Jan, to Studsvik Energiteknik AB. Decontamination of pressurized water reactors. 4,704,235, 11-3-87, Cl. 252-626.000.
- Arvidson, Joseph: *See—*
  - Holy, Stephen M., 4,682,774, Cl. 273-84.00R.
- Arvin Industries, Inc.: *See—*
  - Arthur, James C.; and Baldwin, Freddie A., 4,689,952, Cl. 60-313.000.
  - Brighton, John, 4,651,524, Cl. 60-274.000.
  - Sickels, Mark A., 4,663,934, Cl. 60-302.000.
- Arywitz, Martin: *See—*
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- Arzberger, Maximilian: *See—*
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  - Bauer, Karlheinz; Haberer, Johann; and Arzberger, Maximilian M., 4,697,947, Cl. 403-14.000.
- Arzberger, William; Warren, Wayne; Riley, Michael; and Segal, Martin, to Jet Spray Corp. Dispenser control circuitry. 4,703,770, 11-3-87, Cl. 137-88.000.
- Arzenti, Thomas E.; and Pirl, William E., to Westinghouse Electric Corp. Gripper assembly. 4,714,289, 12-22-87, Cl. 294-119.300.
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  - Vetter, Helmut, 4,688,585, Cl. 134-56.00R.
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- Arzouman, Harry H., to Safe-T-Jack, Inc. Means for automatically releasing a jack system. 4,697,788, 10-6-87, Cl. 254-8.00B.
- Arzoumanidis, Gregory G.; Lee, Sam S.; Wolff, Thomas E.; and Ornellas, Linda, to Amoco Corporation. Ester-modified olefin polymerization catalyst. 4,657,883, 4-14-87, Cl. 502-127.000.
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  - Asa, Maurice; and Asa, David, 4,674,640, Cl. 215-230.000.
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- Asada, Eizi: *See—*
  - Suzuki, Osamu; Asada, Eizi; and Fukuoka, Tatsuhiko, 4,698,179, Cl. 252-511.000.
- Asada, Kazuhiko: *See—*
  - Omori, Hideki; Asada, Kazuhiko; and Kominami, Hideyuki, 4,652,713, Cl. 219-10.770.
- Asada, Kazuo: *See—*
  - Doura, Fumihiro; Asada, Kazuo; and Inoue, Kouichi, 4,666,981, Cl. 525-100.000.
- Asada, Koichi, deceased: *See—*
  - Tsukamoto, Hidehiko; Kohmoto, Eiji; Asada, Koichi, deceased; Yamasaki, Masakuni; Matsumoto, Kenichi; Nakazono, Euji; Wakamiya, Yoshinori; and Kuramoto, Satoru, 4,672,830, Cl. 72-8.000.
- Asada, Kuniko, legal representative: *See—*
  - Tsukamoto, Hidehiko; Kohmoto, Eiji; Asada, Koichi, deceased; Yamasaki, Masakuni; Matsumoto, Kenichi; Nakazono, Euji; Wakamiya, Yoshinori; and Kuramoto, Satoru, 4,672,830, Cl. 72-8.000.
- Asada, Makoto: *See—*
  - Osawa, Toshiaki; Kobayashi, Yoshiro; Asada, Makoto; and Higuchi, Masahiro, 4,675,295, Cl. 435-172.200.
- Asada, Masahiro; and Azuma, Miyuki, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Process for isolating polymer. 4,680,381, 7-14-87, Cl. 528-501.000.
- Asada, Masao: *See—*
  - Nakada, Yoshiyuki; Asada, Masao; and Inoue, Kiyoshi, 4,699,662, Cl. 106-287.130.
- Asada, Seigo: *See—*
  - Morimoto, Takeshi; Sekimoto, Kunio; and Asada, Seigo, 4,672,470, Cl. 358-323.000.
- Asada, Shigeki; and Yanagisawa, Hiroshi, to International Business Machines Corp. Processor synchronous image scanner controlling method. 4,703,364, 10-27-87, Cl. 358-285.000.
- Asada, Takafumi; Yoshida, Cyuryo; Shioyama, Tadao; and Kurose, Kazuyoshi, to Matsushita Electric Industrial Co., Ltd. Rotary head cylinder device with fluid bearing. 4,706,143, 11-10-87, Cl. 360-107.000.
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- Asada, Tohru: *See—*
  - Miura, Yasuhisa; Kataoka, Yasuki; and Asada, Tohru, 4,675,134, Cl. 260-501.140.
- Asada, Yukitoshi: *See—*
  - Ando, Tsuneo; Kasuya, Kazusato; Yasuda, Takeru; and Asada, Yukitoshi, 4,685,434, Cl. 123-438.000.
  - Ando, Tsuneo; Kasuya, Kazusato; Asada, Yukitoshi; and Sugimoto, Hironobu, 4,705,002, Cl. 123-440.000.
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- Asagi, Yasuyoshi; Ogawa, Noriaki; Moride, Shigeki; Hattori, Toshihiro; and Shishido, Katsuya, to Fujitsu Limited; and Isuzu Motors Limited. Automatic clutch control system. 4,671,397, 6-9-87, Cl. 192-0.052.
- Asagi, Yasuyoshi: *See—*
  - Hattori, Toshihiro; Uriuhara, Makoto; Kasai, Hitoshi; Asagi, Yasuyoshi; and Ogawa, Noriaki, 4,643,048, Cl. 74-866.000.
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  - Hattori, Toshihiro; Uchiyama, Nobuichi; Asagi, Yasuyoshi; Ogawa, Noriaki; and Kasai, Hitoshi, 4,683,996, Cl. 192-0.033.
  - Kasai, Hitoshi; Asagi, Yasuyoshi; Hattori, Toshihiro; Saito, Hideo; and Shishido, Katsuya, 4,635,214, Cl. 364-551.000.
- Asagiri, Katsuki; and Kawaharazaki, Takashi, to Kabushiki Kaisha Toka-rika-denki-seisakusho. Tension apparatus. 4,664,234, 5-12-87, Cl. 242-107.000.
- Asahara, Tomoko: *See—*
  - Ohashi, Minoru; Arakawa, Nobuhiko; Asahara, Tomoko; and Sakamoto, Shuichi, 4,650,752, Cl. 435-15.000.
- Asahara, Yoshiyuki: *See—*
  - Ohmi, Shigeaki; Shingaki, Seiichi; Sakai, Hiroyuki; and Asahara, Yoshiyuki, 4,640,699, Cl. 65-3.150.
- Asahara, Yuuji: *See—*
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- Asahi Asbestos Co Ltd: *See—*
  - Take, Takao; Kaneko, Katsuaki; Kusunoki, Kokyo; and Ichiba, Toshinobu, 4,645,548, Cl. 156-39.000.
- Asahi Breweries Ltd.: *See—*
  - Kurita, Akitsugu; Maruyama, Kazou; Okusa, Akira; and Hayashi, Haruo, 4,656,221, Cl. 524-731.000.
  - Ono, Kyushichi, 4,682,737, Cl. 241-34.000.
- Asahi Chemical Research Laboratory Co., Ltd.: *See—*
  - Iwasa, Yamahiro, 4,683,653, Cl. 29-830.000.
  - Iwasa, Yamahiro; Kabe, Atsushi; and Oba, Yoichi, 4,684,054, Cl. 228-180.100.
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- Asahi Denka Kogyo K.K.: *See—*
  - Endo, Akira; and Yamashita, Haruyuki, 4,701,448, Cl. 514-121.000.
  - Kojo, Hidehiko; and Akimoto, Koji, 4,657,947, Cl. 523-455.000.
  - Kojo, Hidehiko; and Akimoto, Koji, 4,657,953, Cl. 523-435.000.
  - Kojo, Hidehiko; Akimoto, Koji; and Urihara, Kazuhiro, 4,702,962, Cl. 428-418.000.
  - Suzuki, Hiroshi; Asakawa, Yutaka; and Matsui, Akira, 4,689,390, Cl. 528-118.000.
  - Terada, Kimio; Mori, Michio; Goto, Yoichi; Nakazawa, Takashi; Muto, Kunio; and Usami, Shozo, 4,637,937, Cl. 426-570.000.
  - Tsuchiya, Hiroshi; Morio, Kazuhiko; Murase, Hisashi; and Ohkawa, Kazuo, 4,684,671, Cl. 522-31.000.
  - Umemura, Masashi; Konishi, Masanori; Fukushima, Aritoshi; Hisano, Junichi; and Okamoto, Toshiaki, 4,692,256, Cl. 252-32.70E.
- Asahi-Dow Ltd.: *See—*
  - Yoshimura, Isao; Hata, Hideo; and Kaneko, Takashi, 4,701,496, Cl. 525-240.000.

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Asahi Kogaku Kogyo Kabushiki Kaisha-Nai: *See—*

Ogawa, Ryota; and Sato, Shigetada, 4,660,940, Cl. 350-458.000.

Asahi Kokaku Kogyo Kabushiki Kaisha: *See—*

Kohmoto, Shinsuke, 4,645,310, Cl. 350-430.000.

Asahi Medical Co., Ltd.: *See—*

Nitadori, Yoshiaki; and Nakano, Toru, 4,696,748, Cl. 210-636.000.

Watanabe, Hiroyuki; and Rikumaru, Hiroshi, 4,701,267, Cl. 210-806.000.

Yagita, Koji; and Ono, Yotsuo, 4,705,632, Cl. 210-500.230.

Asahi, Morio; Aoshima, Terutaka; Narita, Ryuuho; and Imai, Masahiro, to Kabushiki Kaisha Toshiba. Circuit for controlling a rice cooker with power interruption control. 4,644,137, 2-17-87, Cl. 219-497.000.

Asahi, Morio: *See—*

Aoshima, Terutaka; Asahi, Morio; Imai, Masahiro; and Narita, Ryuuho, 4,687,910, Cl. 219-506.000.

Kojima, Mitsuhiro; Asahi, Morio; Narita, Ryuuho; and Imai, Masahiro, 4,674,890, Cl. 368-107.000.

Onishi, Masayuki; Ito, Kenzo; and Asahi, Morio, 4,670,282, Cl. 426-508.000

Onishi, Masayuki; Ito, Kenzo; and Asahi, Morio, 4,672,179, Cl. 219-441.000.

Asahi, Naotatsu: *See—*

Sunano, Naomasa; Asahi, Naotatsu; and Yoshida, Toshio, 4,713,646, Cl. 338-34.000.

Asahi Optical Co., Ltd.: *See—*

Hara, Masato; and Kaneko, Atsumi, 4,678,910, Cl. 250-237.00G

Asahi Precision Co. Ltd.: *See—*

Kaneko, Kenji, 4,681,438, Cl. 356-143.000.

Asahi, Sadaho: *See—*

Minami, Hiroo; and Asahi, Sadaho, 4,704,770, Cl. 24-431.000.

Asahi Screen Process Insatsu Kabushiki Kaisha: *See—*

Kuboyama, Kiyoshi, 4,645,555, Cl. 156-234.000.

Asahi-Seiki Manufacturing Co., Ltd.: *See—*

Ohdai, Yozo; Abiru, Norifumi; and Ohbayashi, Eiji, 4,680,950, Cl. 72-130.000.

Asahi Seimitsu Kabushiki Kaisha: *See—*

Arai, Masayuki; and Ogasawara, Terumi, 4,651,216, Cl. 358-228.000.

Asahi, Takeoki; and Yoshida, Toshiniko, to Sharp Kabushiki Kaisha. Acoustic output device for personal computer. 4,696,216, 9-29-87, Cl. 84-1.130.

Asahi, Tetsuya; Kaneko, Hiroshi; Sakai, Yasushi; Kiyohara, Akio; and Iwashita, Tooru, to Toyo Soda Manufacturing Co., Ltd. Method of polymerizing vinyl monomers with coated reactor. 4,680,349, 7-14-87, Cl. 526-62.000.

Asahi, Yoshio: *See—*

Maki, Takao; Murayama, Kenji; and Asahi, Yoshio, 4,649,217, Cl. 562-528.000.

Asahi Yukizai Kogyo Co., Ltd.: *See—*

Ogawa, Hirotoshi; and Tsuno, Kazuhiko, 4,676,479, Cl. 251-151.000.

Sano, Nichiro, 4,676,268, Cl. 137-375.000.

Asahina, Hiroshi; and Ogura, Ichiro, to Kabushiki Kaisha Toshiba. Digital X-ray medical diagnostic apparatus. 4,674,108, 6-16-87, Cl. 378-99.000.

Asahina, Hiroshi: *See—*

Kaneko, Makoto; Ogura, Ichiro; Asahina, Hiroshi; and Yasuhara, Hiroshi, 4,688,175, Cl. 364-414.000.

Suzuki, Motomu; and Asahina, Hiroshi, 4,639,867, Cl. 364-414.000.

Asai, Akio; Watanabe, Kazuki; Yoshinaka, Ryoji; and Kirii, Kazunari, to Toyota Jidosha Kabushiki Kaisha. Apparatus for controlling dynamic characteristics of outer load. 4,667,496, 5-26-87, Cl. 72-20.000.

Asai, Akio: *See—*

Kirii, Kazunari; Toyoda, Mamoru; Utsumi, Masatoki; and Asai, Akio, 4,698,991, Cl. 62-21.000.

Ogo, Kazutaka; Hayashi, Masahiro; Suzuki, Takatoshi; Hokao, Katsuiku; Asai, Akio; and Tsuruhashi, Takayuki, 4,709,198, Cl. 318-571.000.

Asai, Eiichi; Tanaka, Hiroshi; and Higashi, Nobuaki, to Fuji Photo Film Co., Ltd. Gradation correction curve creating method and apparatus. 4,641,267, 2-3-87, Cl. 364-414.000.

Asai Germanium Research Institute: *See—*

Kakimoto, Norihiro; Katayama, Takashi; Hazato, Tadahiko; and Ohnishi, Tsutomu, 4,681,960, Cl. 556-83.000.

Asai, Hajime; and Anai, Katsumi, to Mitsubishi Rayon Co., Ltd. Method of sizing carbon fiber and a carbon fiber composition. 4,654,264, 3-31-87, Cl. 428-367.000.

Asai, Hiroshi, to Victor Company of Japan, Ltd. Capstan motor control circuit. 4,670,694, 6-2-87, Cl. 318-258.000.

Asai, Hitohisa. Cryptographic system using pseudocomplements of vector Boolean algebra. 4,703,503, 10-27-87, Cl. 380-28.000.

Asai, Jiro: *See—*

Takeuchi, Hirotaka; Asai, Jiro; Yamada, Yasuhumi; and Yanase, Sumio, 4,701,692, Cl. 322-90.000.

Asai, Ko; and Morita, Koichiro, to NEC Corporation. Fingerprint input device equipped with a cleaner for finger-impressing surface. 4,701,959, 10-20-87, Cl. 382-1.000.

Asai, Ko: *See—*

Tsuji, Yoshitake; and Asai, Ko, 4,635,290, Cl. 382-9.000.

Asai, Koetsu, to Mitsubishi Jukogyo Kabushiki Kaisha. Freight carrier's hull construction for carrying cryogenic or high temperature freight. 4,672,906, 6-16-87, Cl. 114-74.00A.

Asai, Koh; Izumisawa, Hiroyuki; Owada, Katsuaki; Kinoshita, Seiichiro; and Matsuno, Shunji, to NEC Corporation. Method and device for matching fingerprints with precise minutia pairs selected from coarse pairs. 4,646,352, 2-24-87, Cl. 382-5.000.

Asai, Kohtaro: *See—*

Murakami, Tokumichi; Asai, Kohtaro; and Itoh, Atsushi, 4,670,851, Cl. 364-518.000.

Murakami, Tokumichi; Itoh, Atsushi; Asai, Kohtaro; Kamizawa, Koh; and Nishida, Masami, 4,710,812, Cl. 358-136.000.

Asai, Koichi; Tsuda, Mamoru; and Kodama, Jiro, to Fuji Machine Mfg. Co., Ltd. Apparatus for positioning substrates of different sizes of printed-wiring boards. 4,649,635, 3-17-87, Cl. 29-759.000.

Asai, Koichi; Tsuda, Mamoru; and Kodama, Jiro, to Fuji Machine Mfg. Co., Ltd. Apparatus for conveying and positioning circuit substrates of printed-wiring boards. 4,660,280, 4-28-87, Cl. 29-759.000.

Asai, Kuniaki: *See—*

Saito, Teruo; Asai, Kuniaki; Suzuki, Yasuro; and Kagiya, Kei, 4,640,961, Cl. 525-444.000.

Asai, Masahiro; Mizushima, Toshio; Kawai, Toshiro; Akutsu, Shigemitsu; and Uozumi, Yoshiaki, to Honda Giken Kogyo Kabushiki Kaisha. Two-cycle engine. 4,706,617, 11-17-87, Cl. 123-65.0PE.

Asai, Masaki, to Meitoh Denki Kohji Kabushiki Kaisha. Pulley block assembly for aerial line. 4,690,381, 9-1-87, Cl. 254-394.000.

Asai, Masami, deceased: *See—*

Kato, Hideki; Yamamoto, Noriyuki; Ogasawara, Takahisa, deceased; and Asai, Masami, deceased, 4,668,719, Cl. 523-458.000.

Asai, Michihiko; Shimura, Yukio; Tsuda, Keishiro; Ueno, Susumu; Nomura, Hirokazu; and Imada, Kiyoshi, to Shin-Etsu Chemical Co., Ltd. Method for the improvement of antistatic performance of synthetic resin shaped articles. 4,639,379, 1-27-87, Cl. 427-40.000.

Asai, Nobuyoshi, to Copal Company Limited. Device for holding helically wound wire resistor of a wire-wound type potentiometer. 4,652,852, 3-24-87, Cl. 338-268.000.

Asai, Noriyuki: *See—*

Nagashima, Hironobu; and Asai, Noriyuki, 4,704,677, Cl. 364-183.000.

Asai, Osamu: *See—*

Suzuki, Hideo; Kokura, Satoshi; Asai, Osamu; and Miyazaki, Kunio, 4,663,649, Cl. 357-67.000.

Asai, Shigeru: *See—*

Hayashi, Keijiro; Shinya, Kenzo; Saeki, Yasuo; and Asai, Shigeru, 4,697,820, Cl. 280-609.000.

Hayashi, Keijiro; Shinya, Kenzo; Awano, Toshiini; and Asai, Shigeru, 4,697,821, Cl. 280-609.000.

Asai, Shojiro: *See—*

Saiki, Atsushi; Suzuki, Michio; Sunami, Hideo; Asai, Shojiro; Maki, Michiyoshi; and Asami, Kinichiro, 4,693,173, Cl. 98-31.500.

Asai, Takahiro: *See—*

Kammoto, Yoshiaki; Asai, Takahiro; Kouchiwa, Taira; Saitoh, Masanori; and Asano, Shunji, 4,647,961, Cl. 358-75.000.

Asai, Takamitsu; and Fujiyama, Masaaki, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,657,813, 4-14-87, Cl. 428-328.000.

Asai, Takamitsu; and Fujiyama, Masaaki, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,657,814, 4-14-87, Cl. 428-329.000.

Asai, Takamitsu; and Fujiyama, Masaaki, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,666,770, 5-19-87, Cl. 428-323.000.

Asai, Takamitsu; Akashi, Goro; Kitamoto, Tatsuji; Chikamasa, Hiroshi; and Sato, Tsunehiko, to Fuji Photo Film Co., Ltd. Process for producing magnetic recording medium. 4,678,682, 7-7-87, Cl. 427-48.000.

Asai, Takamitsu: *See—*

Tokunaga, Fumihiro; Asai, Takamitsu; and Fujiyama, Masaaki, 4,656,088, Cl. 428-323.000.

Tokunaga, Fumihiro; Asai, Takamitsu; and Fujiyama, Masaaki, 4,678,706, Cl. 428-323.000.

Asai, Takeji: *See—*

Ando, Takehiro; Kimura, Hideo; Oda, Noriyuki; Asai, Takeji; Mochizuki, Ken; Fujihara, Toshihisa; and Maeda, Katsuji, 4,642,127, Cl. 55-20.000.

Asai, Toshimasa: *See—*

Shiomi, Kengo; Asai, Toshimasa; and Kato, Toshiyuka, 4,674,424, Cl. 112-237.000.

Asai, Toshio; and Nakaya, Yasuhiro, to Fukuda Denshi Co., Ltd. Waterproof electrode for recording electrocardiogram. 4,637,399, 1-20-87, Cl. 128-639.000.

Asai, Toshio; Nakaya, Yasuhiro; and Onodera, Yasuaki, to Fukuda Denshi Co., Ltd. Waterproof electrode assembly with transmitter for recording electrocardiogram. 4,681,118, 7-21-87, Cl. 128-643.000.

Asai, Toshiyasu, to Nippondenso Co., Ltd. Discharge tube lighting system for use in a vehicle. 4,645,974, 2-24-87, Cl. 315-50.000.

Asai, Tsuyoshi: *See—*

Kodama, Mitsuo; Miyake, Masaya; Nakano, Minol; Asai, Tsuyoshi; and Hara, Akio, 4,639,352, Cl. 419-15.000.

Asai, Yasuko, legal successor: *See—*

Kato, Hideki; Yamamoto, Noriyuki; Ogasawara, Takahisa, deceased; and Asai, Masami, deceased, 4,668,719, Cl. 523-458.000.

Asai, Yoshiharu: *See—*

Mikami, Yoshiharu; Sashiki, Takashi; and Asai, Yoshiharu, 4,664,200, Cl. 177-25.000.

Minamida, Kazukiyo; and Asai, Yoshiharu, 4,645,019, Cl. 177-25.000.

Asaida, Takashi, to Sony Corporation. Color television camera using the green signal for vertical enhancement and the green and another signal for horizontal enhancement. 4,672,430, 6-9-87, Cl. 358-37.000.

Asaka, Toshifumi: *See—*
- Morimoto, Shigeo; Adachi, Takashi; Asaka, Toshifumi; Kashimura, Masato; Watanabe, Yoshiaki; and Sota, Kaoru, 4,670,549, Cl. 536-7.400.
- Morimoto, Shigeo; Adachi, Takashi; Asaka, Toshifumi; Watanabe, Yoshiaki; and Sota, Kaoru, 4,680,386, Cl. 536-7.400.
- Watanabe, Yoshiaki, Morimoto, Shigeo; Goi, Masami; Mitsukuchi, Morihiro; Adachi, Takashi; Nakagami, Jozi, Asaka, Toshifumi; Eguchi, Tadashi; and Sota, Kaoru, 4,672,109, Cl. 536-7.200.

Asaka, Tsutomu: *See—*
- Nakamura, Kyuzo; Ota, Yoshifumi; Asari, Shin; and Asaka, Tsutomu, 4,661,420, Cl. 428-692.000.
- Nakamura, Kyuzo; Ota, Yoshifumi; and Asaka, Tsutomu, 4,683,[illegible]76, Cl. 428-692.000.

Asakawa, Fumio: *See—*
- Tsunoyama, Kouzou; Tanimoto, Wataru; Ohashi, Yoshiharu; Kimura, Shigeyuki; and Asakawa, Fumio, 4,652,128, Cl. 356-318.000.

Asakawa, Hiroshi: *See—*
- Fujii, Tsuneo; Inukai, Hiroshi; Deguchi, Takayuki; Amano, Toshihiko; Kakuchi, Masami; Asakawa, Hiroshi; and Kogure, Osamu, 4,686,168, Cl. 430-326.000.

Asakawa, Kenichi; Shirasaki, Yuichi; and Iwamoto, Yoshinao, to Kokusai Denshindenwa Co., Ltd. Rotary joint for optical fibers. 4,641,915, 2-10-87, Cl. 350-96.180.

Asakawa, Kenichi: *See—*
- Iwamoto, Yoshinao; Shirasaki, Yuichi; Fujise, Masayuki; and Asakawa, Kenichi, 4,637,686, Cl. 350-96.290.
- Yamamura, Kazuomi; Ishihara, Hideo; Iwamoto, Yoshinao; Suzuki, Shizuo; Sirasaki, Yuichi; and Asakawa, Kenichi, 4,678,371, Cl. 405-164.000.

Asakawa, Terushige: *See—*
- Morita, Koyo; Nomura, Keizo; Nishizuka, Hiroshi; Hoshi, Tai; Tamiya, Yoichiro; and Asakawa, Terushige, 4,701,608, Cl. 250-205.000.

Asakawa, Yoshinori, to Kuraray Co., Ltd. Aroma composition. 4,659,509, 4-21-87, Cl. 252-522.00R.

Asakawa, Yutaka: *See—*
- Suzuki, Hiroshi; Asakawa, Yutaka; and Matsui, Akira, 4,689,390, Cl. 528-118.000.

Asako, Shigeru: *See—*
- Okita, Koichi; Toyooka, Shinichi; Asako, Shigeru; and Yamada, Katsuya, 4,671,754, Cl. 425-66.000.
- Okita, Koichi; Toyooka, Shinichi; Asako, Shigeru; and Yamada, Katsuya, 4,705,544, Cl. 55-158.000.

Asakuno, Hiroyoshi; Mori, Kinya; Suzuki, Kiyoaki; Nishida, Mamoru; Iwai, Kenji; Tamamushi, Masahiro; and Kawasaki, Teruo, to Chisso Corporation; and Nissan Motor Co., Ltd. Polypropylene interior parts for autocars. 4,638,030, 1-20-87, Cl. 524-536.000.

Asakura, Hideo, to Brother Kogyo Kabushiki Kaisha. Positioning device for positioning type-wheel index motor in a printer. 4,705,416, 11-10-87, Cl. 400-144.200.

Asakura, Hiroyuki: *See—*
- Nagaoka, Yoshitomi; Matsuda, Yoshiteru; Hirao, Yoshiaki; Kuga, Ryuichiro; and Asakura, Hiroyuki, 4,673,274, Cl. 354-403.000.

Asakura, Koichi, to Brother Kogyo Kabushiki Kaisha. Machine tool for machining a workpiece by feeding a cutting tool in a series of discrete steps and related method. 4,704,689, 11-3-87, Cl. 364-474.000.

Asakura, Kunio, to Keisuke Honda. Display system for fish sonar. 4,644,511, 2-17-87, Cl. 367-101.000.

Asakura, Masahiko; Kawanabe, Tomohiko; Ueda, Masahiro; Kubota, Shinichi; Kushida, Noritaka; and Matsumoto, Yukihiro, to Honda Giken Kogyo Kabushiki Kaisha. Air-fuel ratio control system for an internal combustion engine with an atmospheric pressure responsive correction operation. 4,694,803, 9-22-87, Cl. 12[illegible]40.000.

Asakura, Masahiko; Kawanabe, Tomohiko; Kushida, Noritaka; and Hasebe, Hiroshi, to Honda Giken Kogyo Kabushiki Kaisha. Oxygen concentration sensing device for an air-fuel ratio control system of an automotive internal combustion engine. 4,706,637, 11-17-87, Cl. 123-589.000.

Asakura, Masahiko: *See—*
- Amano, Katsuhisa; Arai, Yasuhisa; Kushida, Noritaka; and Asakura, Masahiko, 4,665,883, Cl. 123-571.000.
- Hasebe, Hiroshi; Asakura, Masahiko; Sakaino, Michio; and Miyashita, Yukio, 4,693,220, Cl. 123-339.000.
- Hibino, Yoshitaka; Fukuzawa, Takeshi; Sato, Hiromitsu; and Asakura, Masahiko, 4,705,011, Cl. 123-589.000.
- Kawanabe, Tomohiko; Shiina, Takanori; Asakura, Masahiko; and Kimura, Katsuhiko, 4,649,882, Cl. 123-438.000.
- Kawanabe, Tomohiko; Asakura, Masahiko; Muroya, Minoru; Kimura, Katsuhiko; Kushida, Noritaka; and Hasebe, Hiroshi, 4,665,874, Cl. 123-440.000.
- Kawanabe, Tomohiko; Asakura, Masahiko; Shiina, Takanori; Matsumoto, Yukihiro; and Muroya, Minoru, 4,690,121, Cl. 123-589.000.
- Kawanabe, Tomohiko; Asakura, Masahiko; Kushida, Noritaka; Shiina, Takanori; and Muroya, Minoru, 4,705,012, Cl. 123-589.000.
- Kawanabe, Tomohiko; Kushida, Noritaka; Asakura, Masahiko; and Seki, Yasunari, 4,715,350, Cl. 123-587.000.
- Kawanabe, Tomohiko; Asakura, Masahiko; Kushida, Noritaka; and Kimura, Katsuhiko, 4,715,352, Cl. 123-589.000.
- Kurihara, Norimitsu; Ozaki, Masaaki; Goto, Hiroshi; and Asakura, Masahiko, 4,681,070, Cl. 123-179.00H.
- Shimamura, Haruo; Kobayashi, Hideo; and Asakura, Masahiko, 4,683,860, Cl. 123-492.000.

Asakura, Osamu; Nozaki, Mineo; Nagashima, Masasumi; and Uchikata, Yoshio, to Canon Kabushiki Kaisha. Thermal printer. 4,636,810, 1-13-87, Cl. 346-76.0PH.

Asakura, Osamu, to Canon Kabushiki Kaisha. Recorder. 4,642,657, 2-10-87, Cl. 346-76.0PH.

Asakura, Osamu; Nozaki, Mineo; Nagashima, Masasumi; and Uchikata, Yoshio, to Canon Kabushiki Kaisha. Dot matrix printer capable of varying character size. 4,669,897, 6-2-87, Cl. 400-121.000.

Asakura, Osamu; Nozaki, Mineo; Uchikata, Yoshio; and Nagashima, Masasumi, to Canon Kabushiki Kaisha. Sheet advancing device. 4,699,534, 10-13-87, Cl. 400-568.000.

Asakura, Osamu, to Canon Kabushiki Kaisha. Pinch roller assembly for sheet feeding. 4,708,504, 11-24-87, Cl. 400-637.000.

Asakura, Osamu: *See—*
- Nagashima, Masasumi; Nozaki, Mineo; Asakura, Osamu; and Uchikata, Yoshio, 4,692,774, Cl. 346-76.0PH.
- Nozaki, Mineo; and Asakura, Osamu, 4,711,591, Cl. 400-225.000.
- Uchikata, Yoshio; Nozaki, Mineo; Asakura, Osamu; and Nagashima, Masasumi, 4,639,744, Cl. 346-76.0PH.
- Uchikata, Yoshio; Nozaki, Mineo; Asakura, Osamu; and Nagashima, Masasumi, 4,672,393, Cl. 346-76.0PH.
- Uchikata, Yoshio; Nozaki, Mineo, Asakura, Osamu; and Nagashima, Masasumi, 4,676,683, Cl. 400-656.000.
- Uchikata, Yoshio; Nozaki, Mineo; Nagashima, Masasumi; and Asakura, Osamu, 4,709,242, Cl. 346-76.0PH.

Asakura, Shoshiro; and Adachi, Masakazu, to Otsuka Pharmaceutical Co., Ltd. Malaria associated antigen and preparing process thereof. 4,643,896, 2-17-87, Cl. 424-88.000.

Asakura, Toshimitsu; and Tagami, Tomoyuki, to Honda Giken Kogyo Kabushiki Kaisha. Motorcycle. 4,694,924, 9-22-87, Cl. 180-68.300.

Asakura, Toshiyuki; Kobayashi, Hiroaki; and Itoh, Nobuaki, to Toray Industries, Inc. Magnetic recording medium. 4,645,702, 2-24-87, Cl. 428-141.000.

Asakura, Yamato; and Uchida, Shunsuke, to Hitachi, Ltd. Method and apparatus for monitoring break of ion adsorption apparatus. 4,704,245, 11-3-87, Cl. 376-245.000.

Asam, Adolf R.: *See—*
- Blanco, Carlos; Asam, Adolf R.; and Smith, John C., 4,693,551, Cl. 350-96.230.

Asamaki, Tatsuo; and Kato, Takao, to Anelva Corporation. Ion beam generating apparatus. 4,638,209, 1-20-87, Cl. 313-359.100.

Asami, Fumitaka, to Fujitsu Limited. Output control circuit to prevent output of initial spike noise. 4,6[illegible]8,529, 10-6-87, Cl. 307-542.000.

Asami, Kazuo, to Hitachi, Ltd. Multiplexing control unit. 4,667,284, 5-19-87, Cl. 364-187.000.

Asami, Kazutomo; Sano, Fumiaki; Ishijima, Koji; Wada, Fumio; and Hirahara, Takuho, to Mitsubishi Denki Kabushiki Kaisha. Rotary compressor. 4,645,429, 2-24-87, Cl. 417-312.000.

Asami, Kazutomo; Sano, Fumiaki; Wada, Fumio; and Ishijima, Koji, to Mitsubishi Denki Kabushiki Kaisha. Rotary compressor. 4,711,617, 12-8-87, Cl. 417-295.000.

Asami, Keiichi: *See—*
- Echigo, Yoshiaki; Yamao, Mutsunori; Suematu, Yoshiyuki; Ishikura, Tadashi, Asami, Keiichi; and Shidei, Ritsuko, 4,640,971, Cl. 528-129.000.

Asami, Ken; Ohashi, Kaoru; Onuma, Toshio; and Buma, Shuuichi, to Toyota Jidosha Kabushiki Kaisha. Rear wheel suspension controller. 4,634,143, 1-6-87, Cl. 280-707.000.

Asami, Ken; Ohashi, Kaoru; Onuma, Toshio; and Buma, Shuuichi, to Toyota Jidosha Kabushiki Kaisha. Rear suspension controller. 4,647,068, 3-3-87, Cl. 280-707.000.

Asami, Ken; Ohashi, Kaoru; Onuma, Toshio; and Buma, Shuuichi, to Toyota Jidosha Kabushiki Kaisha. Rear height controller. 4,667,978, 5-26-87, Cl. 280-707.000.

Asami, Ken; Ohashi, Kaoru; Onuma, Toshio; and Buma, Shuuichi, to Toyota Jidosha Kabushiki Kaisha. Suspension controller. 4,671,533, 6-9-87, Cl. 280-707.000.

Asami, Ken; Onuma, Toshio; Ohashi, Kaoru; and Buma, Shuuichi, to Toyota Jidosha Kabushiki Kaisha. Rear suspension controller. 4,690,429, 9-1-87, Cl. 280-707.000.

Asami, Ken; Ohashi, Kaoru; Onuma, Toshio; and Buma, Shuuichi, to Toyota Jidosha Kabushiki Kaisha. Rear suspension controller. 4,715,616; 12-29-87, Cl. 280-707.000.

Asami, Ken: *See—*
- Hirao, Kouji; Kuwana, Kazutaka; and Asami, Ken, 4,702,123, Cl. 74-526.000.
- Masaki, Shouichi; Tamura, Kimio; Nakashima, Noriyuki; Wakao, Teruyoshi; Asami, Ken; and Sakai, Kazunori, 4,670,852, Cl. 364-565.000.
- Masaki, Shouichi; Tamura, Kimio; Nakashima, Noriyuki; Wakao, Teruyoshi; Asami, Ken; and Sakai, Kazunori, 4,672,547, Cl. 364-426.000.
- Masaki, Syouichi; Tamura, Kimio; Wakao, Teruyoshi; Nakashima, Noriyuki; Asami, Ken, and Sakai, Kazunori, 4,651,281, Cl. 364-426.000.
- Masaki, Syouichi; Tamura, Kimio; Wakao, Teruyoshi; Nakashima, Noriyuki; Asami, Ken; and Sakai, Kazunori, 4,665,490, Cl. 364-426.000.
- Masaki, Syouichi; Tamura, Kimio; Wakao, Teruyoshi; Nakashima, Noriyuki; Asami, Ken; and Sakai, Kazunori, 4,666,218, Cl. 303-106.000.

Asami, Kinichiro: *See—*
- Saiki, Atsushi; Suzuki, Michio; Sunami, Hideo; Asai, Shojiro; Maki, Michiyoshi; and Asami, Kinichiro, 4,693,173, Cl. 98-31.500.

- Asami, Shigeru: *See—*
  - Namba, Kenryo; Asami, Shigeru; Aoi, Toshiki; Takahashi, Kazuo; and Kuroiwa, Akihiko, 4,713,314, Cl. 430-270.000.
- Asan-Dzhalalov, Alexei G.: *See—*
  - Shaginian, Albert S.; Pevnev, Anatoly A.; Asan-Dzhalalov, Alexei G.; Androsenko, Alexandr P.; Palkin, Leonid N.; and Klimovich, Elena I., 4,650,235, Cl. 294-88.000.
- Asano, Akira; and Kato, Kentaro, to Honda Giken Kogyo Kabushiki Kaisha. Side mounted V-type 4-cycle engine. 4,671,223, 6-9-87, Cl. 123-90.310.
- Asano, Atsushi: *See—*
  - Harada, Yutaka; Kawabe, Ushio; Kotera, Nobuo; and Asano, Atsushi, 4,672,244, Cl. 307-476.000.
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- Asano, Isao, to Alps Electric Co., Ltd. Information recording and reproducing apparatus. 4,713,703, 12-15-87, Cl. 360-97.000.
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  - Gondou, Takafumi; Amada, Eiichi; and Asano, Kenichi, 4,665,507, Cl. 365-190.000.
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  - Sakaida, Atsuo; Kawaura, Masafumi; Chikaoka, Yasuji; Iwata, Hiroshi; and Asano, Kiyomitsu, 4,634,301, Cl. 400-124.000.
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  - Kase, Hiroshi; Matsuda, Yuzuru; Kawamoto, Isao; Asano, Kozo; Shirahata, Kunikatsu; Yasuzawa, Tohru; and Yamada, Koji, 4,692,310, Cl. 424-122.000.
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  - Iwahashi, Hiroshi; Asano, Masamichi; and Narita, Akira, 4,692,834, Cl. 361-91.000.
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- Asano, Masaru: *See—*
  - Goto, Shigeru; Asano, Masaru; Ishida, Matsuhiko; and Inoue, Shosaku, 4,681,207, Cl. 198-333.000.
- Asano, Masumi; and Hattori, Noriaki, to Toyota Jidosha Kabushiki Kaisha; and Aisin Seiki Kabushiki Kaisha. Oil sealing deflector. 4,664,605, 5-12-87, Cl. 417-407.000.
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- Asano, Michio: *See—*
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- Asano, Mitsuru: *See—*
  - Yamamoto, Shinichi; Ito, Toshihiko; and Asano, Mitsuru, 4,640,454, Cl. 228-161.000.
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- Asano, Shogo; and Takahashi, Juhei, to Matsushita Electric Industrial Co., Ltd. Knock sensor. 4,660,410, 4-28-87, Cl. 73-35.000.
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  - Yamamoto, Kazuo; and Asano, Shuichi, 4,679,821, Cl. 280-808.000.
- Asano, Shunji: *See—*
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- Asano, Takahiro: *See—*
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  - Bando, Yoshiaki; Asano, Teruyoshi; Kato, Shigenobu; and Tanioka, Katsuhiko, 4,678,161, Cl. 251-171.000.
  - Takeda, Shinji; Asano, Teruyoshi; and Bando, Yoshiaki, 4,667,926, Cl. 251-170.000.
- Asano, Tetsuro, to Sanyo Electric Co., Ltd. Semiconductor integrated circuit having multiple-layered connection. 4,694,320, 9-15-87, Cl. 357-40.000.
- Asano, Toru: *See—*
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- Asano, Toshiaki: *See—*
  - Kato, Masatake; Tsuji, Sadahiko; and Asano, Toshiaki, 4,712,883, Cl. 350-427.000.
  - Nishimura, Yukuo; Asano, Toshiaki; Mizusawa, Nobutoshi; Kawakami, Eigo; Haruta, Masahiro; Noma, Takashi; Takagi, Hiroshi; Nakazawa, Mitsunobu; and Ozawa, Kunitaka, 4,640,592, Cl. 350-96.320.
  - Nishimura, Yukuo; Kawakami, Eigo; Asano, Toshiaki; Haruta, Masahiro; Takagi, Hiroshi; Noma, Takashi; Mizusawa, Nobutoshi; Nakazawa, Mitsunobu; and Ozawa, Kunitaka. 4,685,766, Cl. 350-96.320.
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- Asano, Yoshihiro: *See—*
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- Asano, Yoshikatsu: *See—*
  - Fukuda, Yutaka; Minagawa, Koji; Nabeshima, Hiroichi; Muneki, Koihiro; Asano, Yoshikatsu; Aoki, Kazuo; and Ishizaka, Yutaka, 4,679,935, Cl. 356-121.000.
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- Asanuma, Nobuyoshi: *See—*
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Lofgren, Folke; and Soderstrom, Sven E., 4,643,564, Cl. 356-5.000.

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Kranich, Neil J., II, 4,644,112, Cl. 200-16.00F.

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sgalium S.A.: *See—*

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Heyraud, Marc A., 4,677,332, Cl. 310-184.000.

Heyraud, Marc A., and Kureth, Jean-Bernard, 4,684,860, Cl. 318-696.000.

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Carey, Francis B., 4,651,493, Cl. 52-710.000.

h, Mary L.; Lee, Do I.; and Frick, Carl H., to Dow Chemical Company, The. Structured latex core-shell polymer particles suitable for se in the preparation of composite sheets. 4,666,777, 5-19-87, Cl. 28-407.000.

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Ash, Neal T., to Jacob Ash and Company, Inc. Hand glove. 4,663,784, 5-12-87, Cl. 21-63.000.

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Ashbrook, Clifford L. Antipersonnel shotgun choke. 4,711,048, 12-8-87, Cl. 42-79.000.

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Ashizawa, Tadashi: *See—*
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Goel, Anil B., 4,636,558, Cl. 528-363.000.
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Goel, Anil B.; Tufts, Timothy A.; and Blackburn, Peggy A., 4,640,969, Cl. 528-73.000.
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Goel, Anil B., 4,661,583, Cl. 528-322.000.
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Hayner, Roger E., 4,647,309, Cl. 106-14.130.
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Reid, William F., 4,649,170, Cl. 524-247.000.
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Sawran, William R.; Turrill, Frank H.; Newman, John W.; Hall, Norman W.; and Ward, Clifford, 4,671,864, Cl. 208-22.000.
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Schneider, James T.; and Haugse, Albert L., 4,692,479, Cl. 523-209.000.
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Walters, Paul W.; Raiche, H. Anthony; Harness, Ronald L.; and Quodala, Genaro M., 4,698,212, Cl. 422-144.000.
Walters, Paul W.; and Benslay, Roger M., 4,701,307, Cl. 422-147.000.
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ASMO Co., Ltd.: *See—*
Fuzita, Kazuhiro; Nishizawa, Kazunori; and Imamura, Shinzi, 4,642,838, Cl. 15-250.210.
Tsunoda, Akira; Tanaka, Takahiko; and Handa, Noboru, 4,673,853, Cl. 318-443.000.
Tsunoda, Akira; Tanaka, Takahiko; and Handa, Noboru, 4,689,535, Cl. 318-443.000.

Asmus, Thomas W., to Chrysler Motors Corporation. Fuel injection system. 4,674,460, 6-23-87, Cl. 123-470.000.

Asmussen, Bodo: *See—*
Nick, Erich; Guse, Gunter; and Asmussen, Bodo, 4,699,792, Cl. 424-446.000.
Nick, Erich; Guse, Gunter; and Asmussen, Bodo, 4,711,781, Cl. 424-446.000.

Asmussen, Erik; and Munksgaard, Christian, to Bayer Aktiengesellschaft. Coating material for collagen-containing materials. 4,698,376, 10-6-87, Cl. 523-115.000.

Asmussen, Frithjof; Gaenzler, Wolfgang; and Wunderlich, Winfried, to Rohm GmbH Chemische Fabrik; and Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e. V. Method of manufacturing X-ray resist. 4,656,119, 4-7-87, Cl. 430-327.000.

Asmussen, Jes: *See—*
Roppel, Thaddeus A.; Asmussen, Jes; and Reinhard, Donnie K., 4,691,662, Cl. 118-50.100.

Aso, Hideo; Fujino, Hirohisa; and Saibe, Seiichi, to Tokyo Juki Industrial Co., Ltd. Button sewing machine. 4,712,493, 12-15-87, Cl. 112-112.000.

Aso, Koichi: *See—*
Hayakawa, Masatoshi; Aso, Koichi; Ochiai, Yoshitaka; Matsuda, Hideki; Hayashi, Kazuhiko; Ishikawa, Wataru; and Iwasaki, You, 4,707,417, Cl. 428-630.000.
Hayashi, Kazuhiko; Ochiai, Yoshitaka; Hayakawa, Masatoshi; Matsuda, Hideki; Ishikawa, Wataru; Iwasaki, You; and Aso, Koichi, 4,640,871, Cl. 428-611.000.
Makino, Yoshimi; Ochiai, Yoshitaka; Uedaira, Satoru; Hotai, Kazuhide; Aso, Koichi; and Hayakawa, Masatoshi, 4,639,278, Cl. 148-108.000.

Aso Pharmaceutical Co., Ltd.: *See—*
Murata, Takaaki, 4,666,040, Cl. 206-441.000.
Murata, Takaaki, 4,689,044, Cl. 604-306.000.

Aso, Seiji: *See—*
Endoh, Koichi; Kaneko, Toshiyuki; Yaoi, Hideo; Aso, Seiji; Obana, Yasuo; and Takahama, Hideyuki, 4,661,151, Cl. 75-53.000.

Aso, Toshiyuki; and Ishibashi, Tamotu, to Fanuc Ltd. Electrical discharge boring machine. 4,705,932, 11-10-87, Cl. 219-69.00V.

Aso, Toshiyuki; and Kinoshita, Hiroshi, to Fanuc Ltd. Wire-cut electrical discharge machine. 4,707,580, 11-17-87, Cl. 219-69.00W.

Aso, Toshiyuki; and Ishibashi, Tamotu, to Fanuc Ltd. Combined wire electrode electrical discharge machine and initial hole forming device. 4,711,981, 12-8-87, Cl. 219-69.00W.

Aso, Toshiyuki: *See—*
Obara, Haruki; and Aso, Toshiyuki, 4,638,140, Cl. 219-69.00W.

Aso, Yasuhiro: *See—*
Takeda, Hisanobu; and Aso, Yasuhiro, 4,704,748, Cl. 4-420.400.

Aso, Yoshio: *See—*
Ishizaka, Kunihiko; Sudo, Fumio; Seki, Akira; and Aso, Yoshio, 4,655,831, Cl. 75-257.000.
Seki, Akira; Narita, Yuuki; Aso, Yoshio; and Nagata, Shunro, 4,676,964, Cl. 423-335.000.

Asoshina, Eishi: *See—*
Yamamoto, Hiraku; Suzuki, Toshimichi; Katayama, Shigeru; Uratsuka, Isao; and Asoshina, Eishi, 4,695,598, Cl. 523-400.000.

Asou, Satoshi: *See—*
Kitazume, Yoshiaki; Yasue, Toshikazu; Ohira, Eiji; Endo, Takeyuki; and Asou, Satoshi, 4,672,668, Cl. 381-43.000.

Asou, Yasuhiro: *See—*
Oguma, Tomio; Takeda, Hisanobu; and Asou, Yasuhiro, 4,700,082, Cl. 307-116.000.

Aspden, Garth J., to National Nuclear Corporation Limited. Nuclear reactor constructions. 4,655,997, 4-7-87, Cl. 376-289.000.

Aspden, Garth J.; and Allbeson, Keith F., to National Nuclear Corporation Limited. Liquid metal cooled nuclear rector constructions. 4,655,998, 4-7-87, Cl. 376-290.000.

Aspden, Garth J., to National Nuclear Corporation Limited. Shields for nuclear reactors. 4,712,015, 12-8-87, Cl. 250-517.100.

Aspden, Garth J.: *See—*
Chesworth, Graham; and Aspden, Garth J., 4,698,199, Cl. 376-206.000.

Aspects, Inc.: *See—*
Zacky, Ralf G.; and Alexander, Gordon L., 4,657,319, Cl. 312-333.000.

Aspen Diagnostics, Inc.: *See—*
Calenoff, Emanuel, 4,675,286, Cl. 435-7.000.

Aspen Laboratories, Inc.: *See—*
McCune, William L., 4,691,738, Cl. 137-627.500.
Robinette-Lehman, Cynthia, 4,635,635, Cl. 128-327.000.

Aspen Peripherals: *See—*
Smith, David E., 4,681,278, Cl. 242-195.000.
Smith, David E.; Olmsted, Dennis R.; and Fryberger, Joseph A., 4,709,873, Cl. 242-195.000.

Asper, Jean-Jacques; and Cottenceau, Remi, to Motul S.A. Helmet for protection against impacts and a method of manufacturing the said helmet. 4,710,984, 12-8-87, Cl. 2-412.000.

Aspera S.r.l.: *See—*
Peruzzi, Federigo, 4,708,168, Cl. 137-543.190.
Zgliczynski, Marek; and Sesona, Giancarlo, 4,706,353, Cl. 29-156.40R.

Asperger, Robert G.: *See—*
Thompson, Neil E. S.; and Asperger, Robert G., 4,689,177, Cl. 252-344.000.

Aspervall Instrument AB: *See—*
Aspervall, Roland; and Jareke, Bo, 4,669,358, Cl. 91-51.000.

Aspervall, Roland; and Jareke, Bo, to Computer Instrument AB; and Aspervall Instrument AB. Pneumatic servo valve (governing valve). 4,669,358, 6-2-87, Cl. 91-51.000.

Aspin, Ronald E.: *See—*
Sare, Ian R.; Henderson, Ian D.; Heijkoop, Teunis; Bosworth, Michael R.; Aspin, Ronald E.; and Arnold, Brian K., 4,635,701, Cl. 164-102.000.

Aspinwall, Hugh M. Manually operated impact driver. 4,708,209, 11-24-87, Cl. 173-93.000.

Aspirot, Jacques; Biache, Gerard; Delattre, Robert; and Ferron, Pierre, to Institut National de la Recherche Agronomique; and National de Recherches du Coton et des Textiles Exotiques. Process for the biological control of insects which destroy crops, and insecticidal compositions. 4,668,511, 5-26-87, Cl. 424-93.000.

Assadoullah, Assad: *See—*
Charles, Gilbert; Assadoullah, Assad; and Bernet, Jean-Marie, 4,637,733, Cl. 368-120.000.

Assaf, Gad; and Regev, Mordechai, to Solmat Systems, Ltd. Method of and apparatus for protecting a halocline in a salt-water solar pond against the effects of wind. 4,672,950, 6-16-87, Cl. 126-452.000.

Assaf, Gad, to Geophysical Engineering Company. Method of and apparatus for conditioning air in enclosures. 4,685,617, 8-11-87, Cl. 237-81.000.

Assaf, Gad, to Geophysical Engineering Company. Method of evaporating liquid from a solution. 4,704,189, 11-3-87, Cl. 159-48.200.

Assaf, Gad, to Geophysical Engineering Company. Apparatus for producing power using concentrated brine. 4,704,993, 11-10-87, Cl. 122-21.000.

Assaf, Gad, to Geophysical Engineering Company. Apparatus and method for controlling temperature and humidity within an enclosure. 4,707,995, 11-24-87, Cl. 62-94.000.

Assai, Francois T.; Berman, Arnold L.; and Potukuchi, Janaki R., to Communications Satellite Corporation. Monitoring of input backoff in time division multiple access communication satellites. 4,637,017, 1-13-87, Cl. 370-104.000.

Assche, Jan V.: *See*—

Bagaglio, Giancarlo; Assche, Jan V.; and Watts, Arun, 4,678,513, Cl. 106-38.220.

Assel, Eugen; Dasbach, Burkhard; and Weber, Bernd, to Siemens Aktiengesellschaft. Plug-in and disconnect aid. 4,699,594, 10-13-87, Cl. 439-152.000.

Asselberghs, Leopold: *See*—

Ruelle, Jean-Jacques; d'Andrea, Giacomo; and Asselberghs, Leopold, 4,680,958, Cl. 73-56.000.

Assh, Daniel; and Assh, Saul. Load hauling tandem combination. 4,674,942, 6-23-87, Cl. 414-483.000.

Assh, Saul: *See*—

Assh, Daniel; and Assh, Saul, 4,674,942, Cl. 414-483.000.

Assimon, Andre: *See*—

Daty, Jean; and Assimon, Andre, 4,649,116, Cl. 435-287.000.

Assinder, Ivar; Supran, Michael K.; and Thompson, Geoffrey A. K., to Thomas J. Lipton, Inc. Food processing method to avoid non-enzymatic browning. 4,640,840, 2-3-87, Cl. 426-399.000.

Assini, John E.; and Kissinger, Paula A., to AMP Incorporated. Shoulder eyelet board lock. 4,679,883, 7-14-87, Cl. 439-607.000.

Assink, Roger: *See*—

Arnold, Charles, Jr.; and Assink, Roger, 4,714,663, Cl. 429-101.000.

Assistance Industrielle Dauphinoise A.I.D.: *See*—

Danel, Francois, 4,646,587, Cl. 74-640.000.

Assmann, Dieter; and Demmler, Holger, to Assmann Electronics Ltd. Connector for joining a multi-conductor flat electric cable to other circuit elements. 4,703,990, 11-3-87, Cl. 439-404.000.

Assmann Electronics Ltd.: *See*—

Assmann, Dieter; and Demmler, Holger, 4,703,990, Cl. 439-404.000.

Assmann, Gerd; and Helb, Horst-Dietrich, to Boehringer Ingelheim Zentrale GmbH. Apparatus for distribution and preparation of samples from primary vessels. 4,656,006, 4-7-87, Cl. 422-63.000.

Assmann, Heimut; Dorr, Wolfgang; Maier, Georg; and Peehs, Martin, to Kraftwerk Union Aktiengesellschaft. Method and tunnel furnace for sintering blanks. 4,655,978, 4-7-87, Cl. 264-0.500.

Associated Concrete Products: *See*—

Hahne, Walter B., 4,641,993, Cl. 404-4.000.

Associated Electrical Industries Limited: *See*—

Hodkin, George A.; and Blane, Roger H., 4,681,988, Cl. 200-17.00R.

Ward, Philip A., 4,672,284, Cl. 318-752.000.

Young, David J., 4,689,735, Cl. 363-155.000.

Associated Enterprises, Inc.: *See*—

Hartman, John E.; and Venaleck, John T., 4,641,426, Cl. 29-839.000.

Hartman, John E.; and Venaleck, John T., 4,663,815, Cl. 29-839.000.

Associated Materials Incorporated: *See*—

Bakewell, Frank W.; and Stricker, Charles D., 4,683,175, Cl. 428-677.000.

Associated Mechanical Contractors, Inc.: *See*—

Gurries, Richard M.; Johnson, Jay K.; and Nering, Eric A., 4,679,268, Cl. 110-346.000.

Associated Mills, Inc.: *See*—

Grube, Clifford E.; and Kalnins, William, 4,671,300, Cl. 131-231.000.

Rundzaitis, Alfons, 4,657,185, Cl. 239-438.000.

Associated Oiltools, Inc.: *See*—

Young, Neil E., 4,654,150, Cl. 210-774.000.

Associated Press, The: *See*—

Rutherford, David G.; Helling, Bernd; Shearn, David M.; and Shaler, David, 4,661,861, Cl. 358-302.000.

Rutherford, David G.; Regnault, Alain; and Kirlick, John, 4,679,094, Cl. 358-261.000.

Associated Sprayers Limited: *See*—

Reed, William J., 4,635,856, Cl. 239-583.000.

Association Generale des Producteurs de Mais: *See*—

Cornet, Michel; and Michel, Pierre, 4,712,362, Cl. 56-16.500.

Association of American Railroads: *See*—

Kwun, Hegeon; Birring, Anmol S.; Singh, Gurvinder P.; Hendrix, Gary J.; and Alcazar, David G., 4,711,120, Cl. 73-119.00R.

Association pour la Promotion de la Technologie (Promotech): *See*—

Causse D'Agraives, Bertrand; Mathieu, Janny; and Jamar, Patrick, 4,677,435, Cl. 340-825.310.

Association pour la Recherche et le Developpement des Methodes et Processus Industriels (A.R.M.I.N.E.S.): *See*—

Fredholm, Allan; Davidson, James H.; Khan, Tasadduq; and Theret, Jean-Mare C. F., 4,639,280, Cl. 148-404.000.

Richon, Dominique; and Laugier, Serge, 4,688,436, Cl. 73-864.810.

Association Suisse pour la Recherches Horlogere: *See*—

Hintermann, Hans-Erich, 4,687,487, Cl. 623-18.000.

Ast, Adolf: *See*—

Backu, Konrad; Ast, Adolf; and Mogg, Herbert, 4,669,558, Cl. 177-187.000.

Ast, Gene. Apparatus and method for recompressing bales of fibrous material. 4,676,153, 6-30-87, Cl. 100-7.000.

Ast, Reinhold, to Siemens Aktiengesellschaft. Synchronizing stage for the acquisition of a synchronizing signal having low jitter from a biternary data sequence. 4,700,357, 10-13-87, Cl. 375-4.000.

ASTA-Werke Aktiengesellschaft Chemische Fabrik: *See*—

Brunner, Henri; Schonenberger, Helmut; Schmidt, Manfred; Holzinger, Ulrich; Unger, Gerfried; and Engel, Jurgen, 4,704,464, Cl. 556-137.000.

Engel, Jurgen; and Scheffler, Gerhard, 4,704,387, Cl. 514-212.000.

Engel, Jurgen; Kleemann, Axel; Niemeyer, Ulf; Hilgard, Peter; and Pohl, Joerg, 4,716,242, Cl. 558-81.000.

Astadjov, Dimo N.: *See*—

Sabotinov, Nikola V.; Vutshkov, Nikolay K.; and Astadjov, Dimo N., 4,635,271, Cl. 372-61.000.

Astafiev, Nikolai A.: *See*—

Paton, Boris E.; Medovar, Boris I.; Biletsky, Semen M.; Saenko, Vladimir Y.; Us, Vasiliy I.; Krendeleva, Alisa I.; Barvinko, Jury P.; Medovar, Lev B.; Pivovarsky, Nikolai B.; and Astafiev, Nikolai A., 4,711,387, Cl. 228-143.000.

Astafiev, Vladimir M.: *See*—

Bezborodov, Vladimir S.; Konovalov, Viktor A.; Ptashnikov, Jury L.; Astafiev, Vladimir M.; and Petrovich, Alexandr E., 4,683,079, Cl. 252-299.670.

Astapenok, Elena B.: *See*—

Kalvinsh, Ivars Y.; and Astapenok, Elena B., 4,686,215, Cl. 514-183.000.

Astarni Pty. Ltd.: *See*—

Wenham, Bruce T.; Cook, Raymond; and Hunter, Clifford R., 4,712,339, Cl. 52-173.0PS.

Astbury, Brian R.: *See*—

Pamplin, John W.; and Astbury, Brian R., 4,644,769, Cl. 72-43.000.

Astec Components, Ltd.: *See*—

Whittle, Rex W. J., 4,695,936, Cl. 363-21.000.

Astec Industries, Inc.: *See*—

Brock, J. Donald; and May, James G., 4,638,747, Cl. 110-264.000.

Brock, J. Donald, 4,715,720, Cl. 366-25.000.

Brock, James D., 4,706,893, Cl. 241-23.000.

Astegiano, Luciano; Bertoglio, Ottavio; Bosco, Fulvio; de Bosio, Alfredo; Franco, Dario; Lampiano, Piero; Melle, Antonio; and Rosboch, Luciano, to Societa' Italiana per l'Esercizio Telefonico p.a. Equipment for sending digitally pre-stored voice announcements to the subscribers connected to a telephone network. 4,706,270, 11-10-87, Cl. 379-2.000.

Asten Group, Inc.: *See*—

Bachmann, Wolfgang; and Spahn, Dieter, 4,654,122, Cl. 162-348.000.

Sarrazin, Yvon; and Smolens, Harry D., 4,695,498, Cl. 428-121.000.

Asten, Wolfgang V.; Dorner, Karl H.; Scheel, Hartmut; and Wurstle, Volker, to Vereinigte Aluminium-Werke Aktiengesellschaft. Aluminum offset coil, and method for its production. 4,715,903, 12-29-87, Cl. 148-11.50A.

Aster Associates: *See*—

Moore, Wayne E.; Quinn, Stephen R.; Tufts, Wesley M.; and Gasko, William F., 4,714,316, Cl. 350-96.200.

Asterlin, Gunther E., to Filter Specialists, Inc. Method of removing filter bag. 4,669,167, 6-2-87, Cl. 29-426.600.

Astheimer, Robert W., to Barnes Engineering Company. Scanning horizon sensor. 4,654,518, 3-31-87, Cl. 250-203.00R.

Astheimer, Robert W.; and Kelly, William J., to Barnes Engineering Company. Method and apparatus for thermal examination of a target by selective sampling. 4,707,605, 11-17-87, Cl. 250-347.000.

Astigiano, Florio; and Kaminski, Ernesto, to PRT-Pluritec Italia S.p.A. Contouring machine for printed circuits. 4,657,452, 4-14-87, Cl. 409-190.000.

Astill, Cyril J. Control valve. 4,688,601, 8-25-87, Cl. 137-625.500.

Astl, Franz. Device for detachably connecting two elements. 4,680,838, 7-21-87, Cl. 24-442.000.

Astle, Brian, to RCA Corporation. Video apparatus and method for producing the illusion of motion from a sequence of still images. 4,698,682, 10-6-87, Cl. 358-182.000.

Astle, Henry; VanderPol, Jerald; Schuster, Randall; and Linton, Terry B., to Tri Tool Inc. End preparation tool for pipe fittings. 4,667,548, 5-26-87, Cl. 82-4.00C.

Astle, Lynn: *See*—

Grahn, Allen R.; and Astle, Lynn, 4,704,909, Cl. 73-862.040.

Astley, George W., to Canadian National Railway Company. Remote control system for a locomotive. 4,687,258, 8-18-87, Cl. 303-3.000.

Astley, Graham J.: *See*—

Wentworth, Robert J.; and Astley, Graham J., 4,715,287, Cl. 104-172.300.

Astley, Vivian C.; and Taravella, Jody J., to Freeport Minerals Company. Method for producing stabilized wet process phosphoric acid with low content of magnesium and aluminum. 4,710,366, 12-1-87, Cl. 423-321.00R.

Astley, Vivi[illegible]C.: *See*—

Moll[illegible]ip D.; Astley, Vivian C.; and Taravella, Jody J., 4[illegible]59, C[illegible] 23-297.000.

Wiew[illegible]owsk[illegible] Tadeusz K.; Mollere, Phillip D.; Astley, Vivian C.; and [illegible]avid M., 4,655,789, Cl. 23-297.000.

Wiewi[illegible]i, Tadeusz K.; and Astley, Vivian C., 4,655,790, Cl. 23-299.000.

Astner, Gunnar; and Sjostrom, Sten-Ove, to SKF Steel Engineering AB. Connection device for plasma generators. 4,706,943, 11-17-87, Cl. 266-265.000.

Astner, Gunnar: *See*—

Thornblom, Jan; and Astner, Gunnar, 4,638,489, Cl. 373-24.000.

Astoin, Jaques N.: *See*—

Massot, Jacqueline O.; and Astoin, Jaques N., 4,705,780, Cl. 514-54.000.

- Astolfi, Pietro, to Pico-Glass S.p.A. Picture frame with table top support element. 4,704,814, 11-10-87, Cl. 40-152.100.
- Astolfi, Pietro, to Pico-Glass S.p.A. Element for securing and hanging picture frames. 4,707,937, 11-24-87, Cl. 40-152.100.
- Astra Lakemedel Aktiebolag: *See—*
  - af Ekenstam, Bo T.; and Bovin, Christer, 4,695,576, Cl. 514-330.000.
  - Eriksson, Bertil F. H.; Helgstrand, Ake J. E.; Misiorny, Alfons; Stening, Goran B.; and Stridh, Stig A., 4,665,062, Cl. 514-120.000.
  - Evers, Hans C. A., 4,643,309, Cl. 206-484.000.
  - Sjoqvist, Rolf I., 4,656,027, Cl. 424-495.000.
- Astra Meditec AB: *See—*
  - Lambert, Hans R., 4,666,437, Cl. 604-265.000.
  - Nygren, Bo H.; and Stenberg, Johan E., 4,673,584, Cl. 427-2.000.
- Astra Plastique: *See—*
  - Bonnenfant, Yvon; Odet, Philippe; Perne, Raymond; and Thevenot, Claude, 4,679,696, Cl. 215-252.000.
- Astra-Tech Aktiebolag: *See—*
  - Lundback, Stig, 4,646,747, Cl. 128-643.000.
  - Lundback, Stig, 4,648,877, Cl. 623-3.000.
  - Lundback, Stig, 4,693,714, Cl. 623-3.000.
  - Lundback, Stig, 4,708,381, Cl. 294-64.100.
- Astraplastique & Societe Anonyme des Eaux Minerales d'Evian: *See—*
  - Perne, Raymond; and Huttel, Jean, 4,699,285, Cl. 215-252.000.
- Astro-Med, Inc.: *See—*
  - Ondis, Albert W., 4,643,454, Cl. 283-74.000.
- Astrom, Gordon L.; Weis, Ronald J.; and Shubert, Wesley M., to Aqua-Aerobic Systems, Inc. Floating decanter. 4,695,376, 9-22-87, Cl. 210-122.000.
- Astron Research and Engineering: *See—*
  - Dahm, Thomas J., 4,658,699, Cl. 89-8.000.
- Astronautics Corporation of America: *See—*
  - Barclay, John A.; Stewart, Walter F.; Prenger, F. Coyne; Zimm, Carl B.; and Parsons, John P., 4,702,090, Cl. 62-3.000.
- Astronics Corporation: *See—*
  - Winfield, Mason C., 4,662,419, Cl. 152-381.600.
- Astrosystems, Inc.: *See—*
  - Barnett, Allen M.; and Hall, Robert B., 4,677,250, Cl. 136-258.000.
- Asulab S.A.: *See—*
  - Bui, Ngoc C.; Michel, Jean-Georges; and Monbaron, Jean-Jacques, 4,635,286, Cl. 381-43.000.
  - Bui, Ngoc C.; and Leuenberger, Claude-Eric, 4,663,624, Cl. 340-825.440.
  - Gete, Henri, 4,683,428, Cl. 324-208.000.
  - Leuenberger, Claude-Eric, 4,656,478, Cl. 342-51.000.
  - Zingg, Walter, 4,652,787, Cl. 310-344.000.
- ASV Stubbe GmbH & Co KG: *See—*
  - Oleff, Werner; and Pape, Fritz G., 4,639,046, Cl. 301-63.0PW.
- Asyst Technologies: *See—*
  - Bonora, Anthony C., 4,674,936, Cl. 414-217.000.
  - Bonora, Anthony C.; and O'Sullivan, Andrew W., 4,676,709, Cl. 414-217.000.
  - Maney, George A.; O'Sullivan, Andrew W.; and Faraco, W. George, 4,674,939, Cl. 414-292.000.
- Aszlanyi, Jozsef: *See—*
  - Barta, Gyorgy; and Aszlanyi, Jozsef, 4,634,455, Cl. 55-32.000.
- Asztalos, Michael J.: *See—*
  - Magee, Robert D.; Asztalos, Michael J.; and Trinh, Vuong D., 4,664,877, Cl. 376-307.000.
- AT&T Bell Laboratories: *See—*
  - Acampora, Anthony; and Gans, Michael J., 4,638,476, Cl. 370-83.000.
  - Ahmad, Mahmood; and Schreiner, Wayne L., 4,644,528, Cl. 370-58.000.
  - Anderson, Thomas W.; Avva, Radha K.; Forrest, Bruce T.; Krawiec, Zbigniew A.; and Starrett, William R., 4,644,527, Cl. 370-58.000.
  - Archer, Wendel E.; Milton, James L.; Renaut, Paul W.; and Winquist, Nelson H., 4,638,274, Cl. 335-52.000.
  - Ash, Gerald R.; and Oliver, Billy B., 4,669,113, Cl. 379-221.000.
  - Bagley, Brian G., 4,644,522, Cl. 370-4.000.
  - Baker, Paul A.; and Strautz, Michael G., 4,652,973, Cl. 361-395.000.
  - Baron, Donna M.; Espenlaub, David E.; Haines, Vicki A.; Inberg, Gerald A.; Shilling, Steve A.; Truesdale, James B.; and Willett, Robert J., 4,635,187, Cl. 364-200.000.
  - Beckner, Mark W.; and Starr, Thomas J. J., 4,642,630, Cl. 340-825.500.
  - Belfield, William R.; and Medaugh, Raymond S., 4,654,863, Cl. 375-27.000.
  - Benda, Mark; Cappo, Raymond G., Jr.; Kwilo, Jerald J.; and Replogle, Joe O., 4,650,933, Cl. 379-21.000.
  - Binkerd, Mark S.; and Sand, William C., 4,636,584, Cl. 379-240.000.
  - Blahut, Donald E., 4,677,545, Cl. 364-200.000.
  - Bowers, John E., 4,638,483, Cl. 372-26.000.
  - Boyle, Gerald C., 4,646,229, Cl. 364-200.000.
  - Brady, Patrick K.; Chen, Cecilia S.; Posterick, Barry L.; and Stewart, Gilbert M., 4,653,043, Cl. 370-13.000.
  - Brahm, David J.; Draper, Don R.; Edmonds, Christopher; and Grinn, James M., 4,654,820, Cl. 364-900.000.
  - Butler, Thomas T.; Lindquist, Wayne V.; and Lu, Priscilla M., 4,654,654, Cl. 340-825.500.
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  - Cannon, Thomas C., Jr.; Carlisle, Arthur W.; Darden, Bruce V.; and Myers, Clyde J., 4,634,214, Cl. 350-96.200.
  - Cheng, Steven S.; Lipson, Jan; and Personick, Stewart D., 4,658,394, Cl. 370-3.000.
  - Choi, Jae H.; Kanotz, William M.; and Vesperman, William C., 4,705,823, Cl. 524-474.000.
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  - Coquin, Gerald A.; Lynch, William T.; and Parrillo, Louis C., 4,647,957, Cl. 357-42.000.
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  - Cox, Herbert M., 4,645,689, Cl. 427-87.000.
  - Derkits, Gustav E., Jr.; and Harbison, James P., 4,637,129, Cl. 29-578.000.
  - Donnelly, Vincent M.; and Karlicek, Robert F., Jr., 4,645,687, Cl. 427-53.100.
  - Elliott, Roger A.; and Lindquist, Wayne V., 4,692,918, Cl. 370-85.000.
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  - Faikman, Richard J.; and Varvaro, Charles, 4,677,430, Cl. 340-723.000.
  - Feldman, Martin, 4,636,080, Cl. 356-401.000.
  - Fildes, Neal R., 4,636,939, Cl. 364-200.000.
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  - Gagen, Paul F., 4,636,033, Cl. 350-96.210.
  - Gallant, John K., 4,648,036, Cl. 364-300.000.
  - Gartside, Charles H., III, 4,645,298, Cl. 350-96.230.
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  - Gordon, Eugene I., 4,637,685, Cl. 350-96.200.
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  - Kolwicz, Kevin D., 4,633,571, Cl. 29-571.000.
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  - Leamy, Harry J., 4,670,086, Cl. 156-620.000.
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  - Lee, Charles M.; and Murphy, Bernard T., 4,639,615, Cl. 307-269.000.
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  - LoCicero, Joseph L.; Pazarci, Melih; and Rzeszewski, Theodore S., 4,641,179, Cl. 358-12.000.
  - Luderer, Gottfried W. R., 4,651,318, Cl. 370-94.000.
  - Luong, Mark Y. F., 4,634,895, Cl. 307-350.000.
  - Luryi, Sergey, 4,691,215, Cl. 357-22.000.
  - Lynch, William T.; and Seidel, Thomas E., 4,643,804, Cl. 204-15.000.
  - Lynch, William T.; and Parrillo, Louis C., 4,646,123, Cl. 357-42.000.
  - Lyons, Alan M.; Mendenhall, Frederick T., Jr.; Robbins, Murray; Quick, Nathaniel R.; and Wilkins, Cletus W., Jr., 4,691,091, Cl. 219-121.0LM.
  - Mardirosian, John, 4,648,100, Cl. 375-86.000.
  - Mitchell, John P., 4,643,499, Cl. 339-17.0CF.
  - Mollenauer, Linn F., 4,635,263, Cl. 372-3.000.
  - Montgomery, Warren A., 4,644,472, Cl. 364-300.000.
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  - Murphy, Edmond J., 4,639,074, Cl. 350-96.150.
  - Myer, Robert E., 4,647,941, Cl. 343-792.000.
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  - Presby, Herman M., 4,676,594, Cl. 350-96.290.
  - Robe, Thomas J., 4,644,437, Cl. 361-56.000.
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  - Saari, Veikko R., 4,638,259, Cl. 330-253.000.
  - Saari, Veikko R., 4,656,436, Cl. 330-253.000.
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  - Sajor, Michael E.; and Seghatoleslami, Asadolah, 4,646,332, Cl. 377-124.000.
  - Scalera, Michael, 4,641,218, Cl. 361-119.000.

Sheets, Laurence L., 4,670,837, Cl. 364-200.000.
Shoji, Masakazu, 4,649,296, Cl. 307-451.000.
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Stanley, Keith R.; and Winchell, David F., 4,635,251, Cl. 370-62.000.
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Steinberger, Michael L., 4,637,067, Cl. 455-295.000.
Striny, Kurt M., 4,642,670, Cl. 357-68.000.
Tai, King L., 4,670,770, Cl. 357-60.000.
Teng, Albert Y., 4,642,758, Cl. 364-200.000.
Tompsett, Michael F.; and Zimany, Edward J., Jr., 4,634,997, Cl. 330-284.000.
Tsang, Won-Tien, 4,636,268, Cl. 148-175.000.
Tuhy, Frank P., Jr., 4,649,298, Cl. 307-473.000.
Unger, Burton A., 4,642,728, Cl. 361-213.000.
Walsh, Patrick M., 4,641,266, Cl. 364-200.000.
Winters, Jack H., 4,639,914, Cl. 370-110.100.
Wyckoff, Robert R., 4,651,652, Cl. 108-144.000.
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AT&T Information Systems Inc.: *See—*
Aranguren, William L.; Restrepo, Mario A.; and Sidey, Michael J., 4,674,085, Cl. 370-85.000.
Bauer, David L.; Bowyer, Larry D.; Ruby, David M.; and Windhausen, Richard A., 4,707,694, Cl. 340-825.520.
Becraft, Arthur D.; Citron, Howard M.; and Tatarski, Joseph E., 4,684,198, Cl. 439-571.000.
Bhatia, Rajiv; and Kneuer, Joseph G., 4,672,604, Cl. 370-58.000.
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Burson, Audrey F.; and Gotway, Jerome M., 4,653,823, Cl. 339-17.00F.
Carbrey, Robert L., 4,651,134, Cl. 340-425.000.
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Farrow, Cecil W., 4,709,374, Cl. 375-13.000.
Galensky, Duane; and Giuliani, Adrian A., 4,665,545, Cl. 379-158.000.
Gartner, William J., 4,715,044, Cl. 375-8.000.
Gitlin, Richard D.; and Werner, Jean-Jacques, 4,644,537, Cl. 370-119.000.
Goodrich, Robert R.; and Sepe, Edmund N., 4,699,443, Cl. 439-188.000.
Grimes, Gary J., 4,658,333, Cl. 361-413.000.
Grimes, Gary J.; Lanzafame, Christopher; and Moffitt, Bryan S., 4,672,299, Cl. 323-217.000.
Hayden, Charles C., 4,653,090, Cl. 379-204.000.
Hsia, Richard Y.; and Liu, Thomas C., 4,685,123, Cl. 379-93.000.
Illuzzi, Vincent A.; Kutzavitch, Walter G.; and Rooney, Allen J., III, 4,642,550, Cl. 323-222.000.
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Lewis, George L., 4,640,032, Cl. 40-316.000.
Liu, Thomas C., 4,646,347, Cl. 379-375.000.
Mathis, Joseph D., 4,646,101, Cl. 343-878.000.
McNair, Bruce E., 4,642,424, Cl. 380-48.000.
Mukerji, Jishnu, 4,654,845, Cl. 370-58.000.
O'Connor, Robert J., 4,688,875, Cl. 439-676.000.
Olson, Jeffrey J.; Peck, Stephen R.; and Seaton, David P., 4,679,189, Cl. 370-60.000.
Rose, Richard C., 4,640,992, Cl. 379-89.000.
Rucci, Norman M.; and Sautter, Helmuth O., 4,639,781, Cl. 358-163.000.
Thapar, Hemant K., 4,651,320, Cl. 370-119.000.
Vanacore, Vincent D., 4,691,346, Cl. 379-198.000.
Werner, Jean J., 4,682,358, Cl. 379-411.000.
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Atteberry, Jack H.; and Clark, Rupert D., 4,644,639, Cl. 29-589.000.
Avedissian, Michael K., 4,634,043, Cl. 228-180.200.
Avedissian, Michael K.; and Hertzog, Earl D., 4,667,870, Cl. 228-103.000.
Bland, Randall J.; Butler, Ronald W.; and Horton, Samuel F., 4,662,572, Cl. 242-7.030.
Borg, Kevin E.; and Forman, Craig E., 4,635,275, Cl. 375-8.000.
Bower, Hadley H., Jr.; and Kulka, Ernest F., 4,642,873, Cl. 29-566.300.
Campbell, Eric R.; Moss, Joe B.; Mullin, Francis J.; and Reed, William C., 4,647,719, Cl. 174-93.000.
Cartwright, John S., 4,674,166, Cl. 29-240.000.
Carver, Gary E., 4,652,757, Cl. 250-360.100.
Choi, Jae H.; Kanotz, William M.; and Vesperman, William C., 4,656,091, Cl. 428-383.000.
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Dines, David R.; and Webb, Vertis C., 4,653,682, Cl. 228-180.200.
Fisanick, Georgia J.; Gross, Michal E.; and Wolk, Gary L., 4,636,403, Cl. 427-53.100.
Ganesan, Apparajan; and Weise, Wayne A., 4,651,133, Cl. 340-365.00C.
Gemra, Richard J., 4,634,205, Cl. 339-97.00P.
Goodrich, Robert R.; and Sepe, Edmund N., 4,699,443, Cl. 439-188.000.
Hechtman, Charles D.; and Levine, Zachary H., 4,642,890, Cl. 29-846.000.
Hutchins, Erle M., 4,651,418, Cl. 29-884.000.
Kim, Myung K.; and Viriyayuthakorn, Montri, 4,638,762, Cl. 118-725.000.
Kuyel, Birol; and Sinclair, Paul F., III, 4,635,855, Cl. 239-551.000.
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Ling, Hung C.; Rhodes, Warren W.; and Yan, Man F., 4,637,989, Cl. 501-135.000.
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Lory, Earl R.; and Olmer, Leonard J., 4,675,089, Cl. 204-164.000.
Lyons, Alan M.; Mendenhall, Frederick T., Jr.; Robbins, Murray; Quick, Nathaniel R.; and Wilkins, Cletus W., Jr., 4,691,091, Cl. 219-121.0LM.
Mahler, James A.; and Munie, Gregory C., 4,648,547, Cl. 228-180.100.
McGonigal, Charles, 4,638,559, Cl. 29-874.000.
Miller, Thomas J.; and Nicol, David A., 4,708,726, Cl. 65-3.120.
Muething, Kevin A., 4,651,673, Cl. 118-725.000.
Muething, Kevin A., 4,660,979, Cl. 356-357.000.
Ors, Jose A.; and Scarlata, Suzanne F., 4,651,011, Cl. 250-459.100.
Peterson, Karl E., 4,651,203, Cl. 358-101.000.
Ray, Rajarshi, 4,688,939, Cl. 356-237.000.
Snyder, Donald Q., 4,649,670, Cl. 51-284.00R.
Thomas, Donald A., 4,661,375, Cl. 427-89.000.
Wong, Ching-Ping, 4,665,148, Cl. 528-15.000.
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Beggs, Richard D.; Friesen, Harold W.; and Nutt, Wendell G., 4,697,051, Cl. 178-63.00D.
Berry, Robert W.; Kaufman, Stanley; and Zwickel, Friedrich, 4,657,346, Cl. 350-320.000.
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Jacobs, Norman A.; and Wentzel, Robert M., 4,704,675, Cl. 346-1.100.
Pruski, John A., 4,643,598, Cl. 400-124.000.
Atack, Philip A.; Gore, Trevor A.; and Masterman, Michael, to Davy McKee (Poole) Limited. Rolling mill. 4,671,091, 6-9-87, Cl. 72-45.000.
Atagi, Tanya A.: *See—*
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Atago, Takeshi: *See—*
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Ataka, Yasukazu, to Sharp Kabushiki Kaisha. Portable vacuum cleaner. 4,704,765, 11-10-87, Cl. 15-323.000.
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Atalar, Abdullah; and Fischbach, Herbert, to Ernst Leitz Wetzlar GmbH. Circuit arrangement for separating high-frequency pulses generated by an acoustic reflecting lens arrangement. 4,663,745, 5-5-87, Cl. 367-87.000.
Atalar, Abdullah, to Ernst Leitz Wetzlar GmbH. Wide-band matching network for piezoelectric transducer. 4,706,048, 11-10-87, Cl. 333-32.000.
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Swin, Richard E., Sr.; and Atalla, Anwar A., 4,711,161, Cl. 98-31.500.
Atanassova, Ivanka A.; Haimova, Marieta A.; Chavdarova, Vesselina B; Nakov, Anton I.; Petkov, Nedelcho G.; and Avramova, Ruska S., to TPO "Pharmachim". Penicillin derivatives. 4,711,956, 12-8-87, Cl. 540-327.000.
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Atarashi, Takashi: *See—*
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Gaulding, William R.; Smith, William D.; and Marsh, Nicholas C., 4,702,653, Cl. 410-144.000.
Atchisson, Maxwell G. Stock assembly for firearm. 4,654,993, 4-7-87, Cl. 42-71.010.
Atchisson, Maxwell G. Firing mechanism for firearm. 4,693,170, 9-15-87, Cl. 89-149.000.
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Atec Inc.: *See—*
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Martinez, Antonio, Jr., 4,642,603, Cl. 340-52.00B.

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Baseggio, Marcello; Steiger, Gerard; and Frund, Louis P., 4,669,280, Cl. 66-78.000.

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De Baere, Luc, 4,684,468, Cl. 210-603.000.

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Dufrasnes, Jean-Claude, 4,638,127, Cl. 200-11.00K.
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Plumier, Michel, 4,713,212, Cl. 376-258.000.
Simon, Andre, 4,635,477, Cl. 73-290.00R.
Verstraete, Willy; and De Ley, Jozef, 4,696,747, Cl. 210-605.000.

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Dalliard, Fernand, 4,641,587, Cl. 105-3.000.

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Lavorel, Gerard, 4,706,369, Cl. 29-560.000.

Ateliers de la Rive: *See—*
Lauzier, Rene; Rollin, Jean; Choquelle, Jean; Dumas, Gerard; Breat, Francois; Rousson, Maurice; and Defour, Paule, 4,705,286, Cl. 280-281.00R.

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Weill, Guy, 4,647,055, Cl. 280-33.99A.

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Cornet, Michel; and Michel, Pierre, 4,712,362, Cl. 56-16.500.

Ateliers Wood Inc.: *See—*
Poirier, Clovis; Banville, Marcel; McDonald, Mario; McDonald, Sabin; Johnston, Stephen; and Masson, Jean-Rene, 4,704,815, Cl. 43-4.000.

Atemboski, Alan: *See—*
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Aten, Edward M.; and Parkhurst, Larry E. Controlled dispensing device. 4,674,652, 6-23-87, Cl. 221-3.000.

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Athalye, Ravindra G. Brake light signal system for a motor vehicle. 4,667,177, 5-19-87, Cl. 340-71.000.

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Athena Controls Inc: *See—*
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Athenes, Claude: *See—*
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Atherton, Charles G.; and Swartz, John C., to AMP Incorporated. Interconnection system for electrical motors. 4,649,304, 3-10-87, Cl. 310-71.000.

Atherton, Charles G.; and Swartz, John C., to AMP Incorporated. Motor stator and connector for making connections to stator windings. 4,656,378, 4-7-87, Cl. 310-71.000.

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Atherton, Jay W., to Honeywell Inc. Digital driver for fixed power amplifier. 4,673,887, 6-16-87, Cl. 330-10.000.

Atherton, Jay W.; Castor, Raymond A.; Christie, Leonard F.; and Engerman, Robert C., to Honeywell Inc. Digitally driven switching power amplifier system. 4,683,439, 7-28-87, Cl. 330-10.000.

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Athey, Wilber J. Curtain rod and window shade holder. 4,684,095, 8-4-87, Cl. 248-255.000.

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Athy, Dale A. Camera filter adaptor system. 4,684,231, 8-4-87, Cl. 354-295.000.

Atkey, Richard E.; and Gilliland, Oscar E., to Dover Corporation. Elevator rail system. 4,637,496, 1-20-87, Cl. 187-95.000.

Atkin, Graham E. Exhaust system for internal combustion engine. 4,707,987, 11-24-87, Cl. 60-324.000.

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Atkin, Howard S., to Dunlop Limited. Tracks for track-laying vehicles. 4,687,261, 8-18-87, Cl. 305-57.000.

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Atkins, Alan D.; Elliott, Kenneth; and Looms, John S. T., to Raychem Corporation. Stress control/insulating composite article with an outer surface having convolutions and electric power cable terminated therewith. 4,714,800, 12-22-87, Cl. 174-73.00R.

Atkins, Arland A., to Itek Corporation. Digital image motion correction method. 4,654,876, 3-31-87, Cl. 382-54.000.

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Atkins, Kenneth E., to Union Carbide Corporation. Polyester molding compositions. 4,673,706, 6-16-87, Cl. 525-31.000.

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Atkins, Randall K.; and Weigel, Leland O., to Eli Lilly and Company. Trans octahydroquinoline intermediate. 4,689,415, 8-25-87, Cl. 546-15.000.

Atkins, Thomas M.: *See—*
Every, Peter; Atkins, Thomas M.; Miller, Roger L.; and Tribe, Leonard T., 4,673,226, Cl. 303-109.000.

Atkins, Walter J., Sr., to Chrysler Motors Corporation. Fuel vapor containment device. 4,703,736, 11-3-87, Cl. 123-519.000.

Atkinson, Anthony: *See—*
Bingham, Alistair H. A.; Atkinson, Anthony; and Bruton, Christopher J., 4,663,285, Cl. 435-172.300.

Atkinson, Charles; and Moody, Carl, to Arkansas Hones Inc. Vitrified composite novaculite and process for producing same. 4,662,897, 5-5-87, Cl. 51-293.000.

Atkinson, Colin; Brace, Roger; and Burak, Nathan, to Internationale Octrooi Maatschappij "Octropa" BV. Aluminosilicates. 4,661,333, 4-28-87, Cl. 423-328.000.

Atkinson, Frederick G.; Kobrinetz, Anthony; and Menich, Barry J., to Motorola, Inc. Cellular radiotelephone land station. 4,694,484, 9-15-87, Cl. 379-59.000.

Atkinson, Frederick G.: *See—*
Menich, Barry J.; and Atkinson, Frederick G., 4,704,734, Cl. 455-33.000.

Atkinson, Jeffrey: *See—*
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Atkinson, John H. M., to Rolls-Royce. Rotors for gas turbine engines. 4,655,687, 4-7-87, Cl. 416-193.00A.

Atkinson, Joseph G.; Guindon, Yvan; Belanger, Patrice C.; and Rokach, Joshua, to Merck Frosst Canada, Inc. 1,4-diaza-phenothiazines. 4,634,766, 1-6-87, Cl. 544-34.000.

Atkinson, Joseph G.; Baldwin, John J.; and McClure, David E., to Merck & Co., Inc. (3-aralkylamino-2-or-propoxy)heterocyclic compounds in method of effecting bronchodilation. 4,656,168, 4-7-87, Cl. 514-234.000.

Atkinson, Joseph G.; Guindon, Yvan; and Lau, Cheuk K., to Merck Frosst Canada, Inc. Benzofuran 2-carboxylic acid esters useful as inhibitors of leukotriene biosynthesis. 4,663,347, 5-5-87, Cl. 514-467.000.

Atkinson, Joseph G.; Baldwin, John J.; and McClure, David E., to Merck & Co., Inc.; and Merck Sharp & Dohme (I.A.) Corp. Aralkylaminoethanol heterocyclic compounds. 4,686,222, 8-11-87, Cl. 514-255.000.

Atkinson, Lowell G.: *See—*
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Atkinson, Noel: *See—*
Baker, William; Pedigo, Michael K.; Atkinson, Noel; and Shelton, Henry P., 4,706,274, Cl. 379-61.000.

Atkinson, Peter; and Allan, Bernard D., to Imperial Chemical Industries PLC. Detection of step charges of pressure in vessels and apparatus therefor. 4,706,501, 11-17-87, Cl. 73-730.000.

Atkinson, Robert W., to Snyder Laboratories, Inc. Lavage system with replaceable pump. 4,635,621, 1-13-87, Cl. 128-66.000.

Atkinson, Robert W.; and Fogelberg, Mark J., to Borg-Warner Corporation. Planetary gear drive with clutching assembly. 4,649,771, 3-17-87, Cl. 74-781.00R.

Atkinson, Robert W., to Snyder Laboratories, Inc. Lavage system with variable frequency, flow rate and pressure. 4,655,197, 4-7-87, Cl. 128-66.000.

Atkinson, Robert W.; and Fisher, Jack M., to Borg-Warner Automotive, Inc. Transaxle with multi-stage final drive assembly. 4,662,242, 5-5-87, Cl. 74-701.000.

Atkinson, Robert W.; and Laco, Michael J., to Snyder Laboratories, Inc. Lavage system. 4,669,453, 6-2-87, Cl. 128-66.000.

Atkinson, Roger: *See—*
Miller, Arthur O.; Coleman, Hollis; Atkinson, Roger; and Dorsey, Boyd, 4,685,127, Cl. 379-221.000.

Atkinson, Ronald E.: *See—*
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Atkinson, William C., to Eastman Kodak Company. Apparatus for encoding a film cartridge used in a particular type camera. 4,682,870, 7-28-87, Cl. 354-275.000.
Atkinson, William G., to Somerville Belkin Industries Inc. Microwave trays. 4,705,929, 11-10-87, Cl. 219-10.55E.
Atlanta Concrete Accessories Inc.: *See—*
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Atlantic Research Corporation: *See—*
Heaton, Harley L., III; Lippold, Joseph H., Jr.; McHale, Edward T.; and Skolnik, Edward G., 4,687,490, Cl. 44-51.000.
Heine, William M., 4,700,607, Cl. 87-57.000.
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Airhart, Tom P., 4,655,314, Cl. 181-113.000.
Airhart, Tom P., 4,660,674, Cl. 181-113.000.
Airhart, Tom P., 4,660,675, Cl. 181-113.000.
Airhart, Tom P., 4,702,344, Cl. 181-121.000.
Ashford, James D.; Eastlack, James K.; Herring, Gary D.; and Wilson, William N., 4,662,448, Cl. 166-290.000.
Baillie, Lloyd A., 4,670,410, Cl. 502-41.000.
Baillie, Lloyd A., 4,702,488, Cl. 280-426.000.
Bartosiak, Kristine M.; and Knauff, Michael W., 4,647,593, Cl. 521-60.000.
Beatty, Ronald L.; and Wyman, Floyd H., 4,637,924, Cl. 423-345.000.
Berman, Elliot; Gay, Charles F.; Miller, Stephen C.; and Tanner, David P., 4,663,495, Cl. 136-248.000.
Berman, Elliot; and Zentner, Brian A., 4,668,803, Cl. 549-291.000.
Betz, Robert M., 4,662,473, Cl. 181-113.000.
Biggs, Michael D.; and Schuh, Frank J., 4,648,469, Cl. 175-7.000.
Blair, Christon R.; and Parker, Kenneth B., 4,640,647, Cl. 405-224.000.
Blair, Christon R.; and Parker, Kenneth B., 4,710,061, Cl. 405-195.000.
Bourland, Larry G., 4,665,118, Cl. 524-394.000.
Bourland, Larry G., 4,696,972, Cl. 525-67.000.
Brainerd, Henry A.; Wilkerson, Charles W.; and Tyhurst, John R., 4,688,589, Cl. 137-13.000.
Bseisu, Amjad A.; Jan, Yih-Min; and Schuh, Frank J., 4,715,451, Cl. 175-40.000.
Cambridge, Edward L.; Loutfy, Raouf O.; Withers, James C.; and Blake, Daniel M., 4,634,581, Cl. 423-126.000.
Castagna, John P.; and Siegfried, Robert W., II, 4,701,891, Cl. 367-31.000.
Cathriner, Richard L.; and Roose, Thomas R., 4,708,793, Cl. 210-188.000.
Criner, Charles B.; and Winnett, Jerry A., 4,655,293, Cl. 168-4.000.
Dean, Barry D., 4,645,820, Cl. 528-171.000.
Dean, Barry D., 4,647,619, Cl. 525-64.000.
Dean, Barry D., 4,650,828, Cl. 525-92.000.
Dean, Barry D., 4,663,390, Cl. 525-73.000.
Dean, Barry D., 4,696,978, Cl. 525-205.000.
Dean, Barry D., 4,701,493, Cl. 524-504.000.
Dean, Barry D., 4,703,085, Cl. 525-91.000.
Dech, James A., 4,714,117, Cl. 166-380.000.
Dehm, David C.; and Lawson, H. Franklin, 4,644,035, Cl. 525-344.000.
DeRuiter, Randall A., 4,646,833, Cl. 166-272.000.
DiGiulio, Adolph V., 4,652,609, Cl. 525-242.000.
DiGiulio, Adolph V., 4,659,600, Cl. 428-35.000.
DiGiulio, Adolph V., 4,659,745, Cl. 521-59.000.
DiGiulio, Adolph V., 4,661,386, Cl. 428-35.000.
DiGiulio, Adolph V., 4,661,564, Cl. 525-242.000.
DiGiulio, Adolph V., 4,665,103, Cl. 521-57.000.
DiGiulio, Adolph V., 4,670,513, Cl. 525-242.000.
DiGiulio, Adolph V., 4,675,363, Cl. 525-242.000.
Feinberg, Stewart C., 4,636,578, Cl. 136-251.000.
Figgins, Dale A.; and Grove, J. Jay, 4,666,585, Cl. 208-131.000.
Fleming, Graham C., 4,683,948, Cl. 166-263.000.
Fleming, Graham C., 4,699,213, Cl. 166-260.000.
Fudge, Kent D., 4,666,946, Cl. 521-59.000.
Fudge, Kent D., 4,677,134, Cl. 521-59.000.
Fudge, Kent D., 4,692,471, Cl. 521-59.000.
Gastinger, Robert G., 4,705,866, Cl. 548-549.000.
Gay, Robert R., 4,638,111, Cl. 136-249.000.
Gupta, Vijai P., 4,675,082, Cl. 203-74.000.
Hansen, Gerald D.; and Biber, Joseph N., 4,642,221, Cl. 422-16.000.
Hill, Robert C., 4,642,191, Cl. 210-532.100.
Hinney, Harry R.; and Baghdadchi, Jamil, 4,658,062, Cl. 564-305.000.
Ingram, Alvin R., 4,681,779, Cl. 427-222.000.
Ingram, Alvin R.; and DiGiulio, Adolph V., 4,692,472, Cl. 521-60.000.
Ingram, Alvin R.; and Di Giulio, Adolph V., 4,708,968, Cl. 521-60.000.
Johnson, Albert S., 4,653,597, Cl. 175-25.000.
Jones, C. Andrew; and Sofranko, John A., 4,634,802, Cl. 585-656.000.
Jones, C. Andrew; and Sofranko, John A., 4,650,781, Cl. 502-241.000.
Jones, C. Andrew; Leonard, John J.; and Sofranko, John A., 4,665,260, Cl. 585-500.000.
Josefowicz, Jack Y., 4,656,155, Cl. 502-324.000.
Karner, Gary M., 4,683,558, Cl. 367-189.000.
Kerekes, Albin K., 4,699,241, Cl. 181-116.000.
Killough, John E., 4,678,033, Cl. 166-246.000.
Kostelnik, Robert J., 4,647,633, Cl. 526-153.000.
Kovarik, Frank S., 4,643,252, Cl. 166-263.000.
Larson, Harold V.; and Gillman, Hyman D., 4,692,535, Cl 549-542.000.
Le-Khac, Bi, 4,705,773, Cl. 502-402.000.
Lin, James J., 4,635,746, Cl. 181-107.000.
MacAllister, Donald J.; and Pennington, Virginia W., 4,715,444, Cl 166-269.000.
Mancinelli, Paul A., 4,640,958, Cl. 525-193.000.
Mancinelli, Paul A., 4,678,837, Cl. 525-250.000
Martinez, David R., 4,646,274, Cl. 367-41.000.
Martinez, David R., 4,707,812, Cl. 367-46.000.
Mazurek, Harry, 4,665,261, Cl. 585-500.000.
Mazurek, Harry, 4,678,862, Cl. 585-500.000.
Meyer, Bernard H.; DiGiulio, Adolph V.; Kinslow, Joseph C.; and Hajnik, Dennis M., 4,663,357, Cl. 521-59.000.
Meyer, Bernard H.; DiGiulio, Adolph V.; Kinslow, Joseph C.; and Hajnik, Dennis M., 4,673,694, Cl. 521-59.000.
Miller, Richard F., 4,654,450, Cl. 585-5.000.
Miller, Richard F.; and Blaschke, Marilyn W., 4,654,451, Cl 585-5.000.
Miller, Richard F.; and Blaschke, Marilyn W., 4,675,305, Cl 502-168.000.
Mitchell, Kim W., 4,650,921, Cl. 136-258.000.
Mocella, Michael T., 4,661,463, Cl. 502-24.000.
Mohn, Walter R.; and Roth, Peter A., 4,643,543, Cl. 350-609.000
Montgomery, Melvin G., 4,675,791, Cl. 362-3.000.
Pathak, Prabodh; and Salter, Stephen J., 4,683,951, Cl. 166-271.000
Pathak, Prabodh; Salter, Stephen J.; Gonzalez, Jay A., and Perkins, Thomas K., 4,687,059, Cl. 166-271.000.
Patrick, David H., 4,711,474, Cl. 285-332.300.
Perkins, Thomas K., 4,660,643, Cl. 166-283.000.
Perkins, Thomas K., 4,679,626, Cl. 166-248.000.
Perkins, Thomas K., 4,705,113, Cl. 166-302.000.
Pominville, Douglas A., 4,637,824, Cl. 55-85.000.
Renfro, Jimmie J., 4,662,437, Cl. 166-65.100.
Renfro, Jimmie J., 4,671,359, Cl. 166-312.000.
Roberts, Ernest E.; Hansel, Paul H.; and Hudgens, William O., 4,640,734, Cl. 156-562.000.
Schlademan, James A., 4,656,213, Cl. 524-272.000.
Schuh, Frank J., 4,640,353, Cl. 166-248.000.
Schuh, Frank J.; and Hearn, David D., 4,653,598, Cl. 175-75.000
Schuh, Frank J.; and Hearn, David D., 4,674,580, Cl. 175-325.000
Shahin, Elias A., 4,634,674, Cl. 435-240.000.
Short, Lewis A.; and Horne, Ottis J., 4,634,608, Cl. 427-327.000.
Shum, Wilfred P.; and Cooper, Charles F., 4,687,868, Cl 556-57.000.
Siegfried, Robert W., 4,646,565, Cl. 73-152.000.
Simpson, Robert B.; and Margossian, Linda J., 4,658,082, Cl 800-1.000.
Skinner, James L., 4,653,586, Cl. 166-278.000.
Skinner, James L., 4,683,963, Cl. 175-66.000.
Skinner, James L., 4,694,901, Cl. 166-77.000.
Smith, Lonnie J.; Blount, Curtis G.; and Petermann, Steven G., 4,685,516, Cl. 166-65.100.
Smith, Lonnie J.; Petermann, Steven G.; and Wood, Dennis R., 4,706,744, Cl. 166-65.100.
Smith, Robert H., 4,704,138, Cl. 48-210.000.
Sofranko, John A., 4,654,459, Cl. 585-500.000.
Sonnenberg, Fred M., 4,703,065, Cl. 521-57.000.
Statton, Gary L.; and Gaul, James M., 4,711,910, Cl. 521-107.000.
Sun, Hsiang-ning; and Gastinger, Robert G., 4,654,463, Cl 585-671.000.
Tarrant, Dale E., 4,661,370, Cl. 427-37.000.
Thach, Sophany; Salter, Stephen J.; Meyers, Kevin O.; and Giordano, Ronald M., 4,701,271, Cl. 252-8.554.
Wakefield, G. Felix; Bender, David L.; and Rea, Samuel N., 4,688,623, Cl. 164-423.000.
Warfel, David R., 4,636,540, Cl. 523-310.000.
Watson, Robert D., 4,708,475, Cl. 356-417.000.
Wilson, Robert, 4,638,863, Cl. 166-248.000.
Wilson, Robert, 4,651,825, Cl. 166-245.000.
Wilson, Robert, 4,665,989, Cl. 166-302.000.
Withers, Howard P., Jr.; Jones, C. Andrew; Leonard, John J.; and Sofranko, John A., 4,634,800, Cl. 585-500.000.
Withers, Howard P., Jr.; Jones, C. Andrew; Leonard, John J. Sofranko, John A.; and Gaffney, Anne M., 4,670,619, Cl 585-500.000.
Withjack, Eric M., 4,710,948, Cl. 378-208.000.
Witten, Eric B., 4,649,655, Cl. 34-135.000.
Wolcott, Herbert A.; and McHaney, James H., 4,712,579, Cl 137-375.000.
Wolcott, Herbert A., II, 4,638,833, Cl. 137-312.000.
Younes, Usama E., 4,634,731, Cl. 524-502.000.
Younes, Usama E., 4,661,574, Cl. 526-262.000.
Younes, Usama E., 4,663,386, Cl. 524-548.000.
Younes, Usama E., 4,668,750, Cl. 526-262.000.
Younes, Usama E., 4,683,084, Cl. 252-609.000.
Younes, Usama E., 4,684,692, Cl. 524-548.000.
Younes, Usama E., 4,709,002, Cl. 528-53.000.
Younes, Usama E., 4,711,941, Cl. 526-272.000.
Zupanick, Joseph E., 4,645,144, Cl. 244-113.000.
Zupanick, Joseph E., 4,651,958, Cl. 244-191.000.
Zupanick, Joseph E.; and Maynard, Robert G., 4,662,745, Cl 356-243.000.

- Zupanick, Joseph E.; and McBride, Carl D., 4,671,662, Cl. 356-417.000.
- Zupanick, Joseph E.; and Braun, Clarence, 4,687,335, Cl. 356-416.000.

Atlantic Vacuum Parts Corp.: *See—*
- Genoa, Joseph; Kaskel, Harold; and Nelson, Carl, 4,652,063, Cl. 339-15.000.

Atlantis Projects Inc.: *See—*
- Thorndyke, Robert J., 4,701,086, Cl. 410-26.000.

Atlas Casing Company, Inc.: *See—*
- Adams, John M., 4,708,044, Cl. 83-545.000.

Atlas Copco Aktiebolag: *See—*
- Andersson, Lars G. R.; and Schorling, Stefan H. G., 4,682,899, Cl. 384-41.000.
- Fors, Lars B. S.; and Verner, Bo L., 4,664,792, Cl. 210-170.000.
- Gidlund, Per A. L.; and Zamore, John A. L., 4,676,422, Cl. 227-51.000.
- Gidlund, Per Adolf L., 4,662,556, Cl. 227-69.000.
- Granstrom, Bengt P. O.; and Skogberg, Bo T., 4,661,021, Cl. 405-244.000.
- Gustafsson, Per S. G., 4,660,658, Cl. 175-296.000.
- Henriksson, Stig R., 4,676,323, Cl. 173-116.000.
- Herron, Lorne R., 4,696,606, Cl. 405-259.000.
- Karden, Karl G., 4,643,263, Cl. 173-168.000.
- Lavon, Erik V., 4,667,748, Cl. 173-119.000.
- Lindberg, Eric T., 4,653,593, Cl. 173-1.000.
- Rahm, Erik R., 4,708,210, Cl. 173-169.000.
- Ripl, Wilhelm K.; and Verner, Bo L., 4,695,384, Cl. 210-602.000.
- Schoeps, Knut C., 4,683,961, Cl. 173-93.000.
- Skogberg, Bo T.; and Romell, Gunnar V. R., 4,634,317, Cl. 405-259.000.
- Wasel, Horst P.; and Grollius, Horst W., 4,711,706, Cl. 204-129.650.

Atlas, David. Radar detection of hazardous small scale weather disturbances. 4,649,388, 3-10-87, Cl. 342-26.000.

Atlas, Michael, to Northrop Corporation. Universal adjustable gripper with center push. 4,653,794, 3-31-87, Cl. 294-88.000.

Atobe, Takashi, to Daiwa Seiko Inc. Level winder for double-bearing reel. 4,666,101, 5-19-87, Cl. 242-84.420.

Atobe, Takashi: *See—*
- Hirose, Haruomi; and Atobe, Takashi, 4,697,758, Cl. 242-84.10M.

Atochem: *See—*
- Alicot, Michel; and Pierre, Jacky, 4,657,751, Cl. 423-407.000.
- Bertaina, Brigitte; Cambon, Aime; and Lantz, Andre, 4,683,339, Cl. 568-41.000.
- Bertocchio, Rene; Gagnieur, Andre; and Mathais, Henri, 4,647,391, Cl. 252-69.000.
- Bourdon, Raymond, 4,674,318, Cl. 73-12.000.
- Bourdon, Raymond; Kunesch, Paul; and Cazes, Andre, 4,699,579, Cl. 425-113.000.
- Cheminal, Bernard; Mathais, Henri; and Thomarat, Marc, 4,642,386, Cl. 568-405.000.
- Cheminal, Bernard; Mathais, Henri; and Thomarat, Marc, 4,643,851, Cl. 260-544.00Y.
- Cheminal, Bernard; Mathais, Henri; and Thomarat, Marc, 4,647,706, Cl. 568-842.000.
- Cheminal, Bernard; and Mathais, Henri, 4,658,070, Cl. 568-842.000.
- Cuzin, Daniel, 4,673,723, Cl. 528-113.000.
- Decaudin, Robert; Gurtner, Bernard; and Gagnieur, Andre, 4,701,564, Cl. 568-639.000.
- Dubreux, Bernard; and Dugenet, Yann, 4,699,623, Cl. 8-111.000.
- Ganga, Roland A., 4,713,139, Cl. 156-500.000.
- Hilaire, Jean-Claude; and Guerin, Roland, 4,694,063, Cl. 528-315.000.
- Kervennal, Jacques; Mathais, Henri; and Commandeur, Raymond, 4,650,899, Cl. 560-359.000.
- Leroux, Francis; and Jaccaud, Michel, 4,654,128, Cl. 204-59.00F.
- Masini, Jean-Jacques, 4,689,130, Cl. 204-157.940.
- Massa, Andre; and Dupasquier, Guy, 4,711,070, Cl. 53-573.000.
- Ollivier, Jean-Paul; and Vinatier, Bernard, 4,676,942, Cl. 264-257.000.
- Pasquet, Veronique; and Spitz, Roger, 4,639,430, Cl. 502-120.000.
- Perthuis, Joel; and Poisson, Pierre, 4,645,786, Cl. 524-106.000.
- Pralus, Christian, 4,636,368, Cl. 423-16.000.

Atoji, Hitomi: *See—*
- Yamada, Mitsuhiko; Atoji, Hitomi; and Kashiwabara, Katsuaki, 4,656,505, Cl. 358-80.000.

Atom Sciences, Inc.: *See—*
- Allman, Steve L.; Thonnard, Norbert; and Hurst, George S., 4,658,135, Cl. 250-283.000.
- Hurst, G. Samuel; Schmitt, Harold W.; Thonnard, Norbert; and Whitaker, Tom J., 4,699,751, Cl. 376-254.000.
- Lucatorto, Thomas B.; Clark, Charles W.; and Whitaker, Tom J., 4,634,864, Cl. 250-282.000.
- Payne, Marvin G.; Thonnard, Norbert; and Hurst, George S., 4,694,167, Cl. 250-282.000.

Atomergic Chemetals Corporation: *See—*
- Hollander, Gary T.; and Blum, Mel, 4,652,577, Cl. 514-373.000.
- Hollander, Gary T.; and Blum, Mel, 4,661,504, Cl. 514-373.000.

Atomic Energy of Canada Limited: *See—*
- Burbidge, George A.; and Stuart, Judy E., 4,659,925, Cl. 250-260.000.
- Shubaly, Murray R., 4,714,834, Cl. 250-427.000.

ATOMIKA Technische Physik GmbH: *See—*
- Mertens, Horst M.; and Bogl, Leonhard, 4,690,098, Cl. 118-727.000.

Atreya, Shailesh: *See—*
- Gratteau, Jack E.; Janzen, Dennis W.; and Atreya, Shailesh, 4,672,322, Cl. 324-441.000.

Atrium Medical Corporation: *See—*
- Herweck, Steve A.; and Karwoski, Theodore, 4,652,263, Cl. 623-1.000.

Atrium Structures, Inc.: *See—*
- Jenn, Louis J., 4,653,240, Cl. 52-169.200.
- Jenn, Louis J., 4,685,260, Cl. 52-169.300.

Atsugi Motor Parts Co., Ltd.: *See—*
- Komatsu, Shinich; Uemura, Seiji; and Komatsu, Koichi, 4,653,339, Cl. 74-422.000.
- Komatsu, Shinich; Uemura, Seiji; and Komatsu, Koichi, 4,669,364, Cl. 92-128.000.
- Komatsu, Shinichi, 4,696,198, Cl. 74-388.0PS.
- Komatsu, Shinichi, 4,706,513, Cl. 74-422.000.

Atsumi, Haruyuki; Anzai, Hisatugu; and Kasahara, Noboru, to Ryobi Limited; and Hochiki Corporation. Apparatus for closing fireproof doors. 4,715,146, 12-29-87, Cl. 49-1.000.

Atsumi, Haruyuki: *See—*
- Katagiri, Fujio; Atsumi, Haruyuki; Anzai, Hisatugu; and Kasahara, Noboru, 4,656,690, Cl. 16-48.500.

Atsumi, Katsuhito: *See—*
- Ishida, Hideo; Tanaka, Ryoichi; and Atsumi, Katsuhito, 4,700,172, Cl. 340-81.00R.

Atsumi, Kinya: *See—*
- Ito, Novuei; Atsumi, Kinya; Yoshida, Hitoshi; and Atsumi, Morihiro, 4,634,837, Cl. 219-270.000.
- Kondo, Kenji; Hattori, Tadashi; Atsumi, Kinya; and Nishida, Minoru, 4,675,662, Cl. 340-631.000.

Atsumi, Masaharu, to Fujitsu Limited. Thyristor with "on" protective circuit and darlington output stage. 4,654,543, 3-31-87, Cl. 307-252.00A.

Atsumi, Morihiro; Nunogaki, Naochika; Ito, Novuei; and Mizuno, Naohito, to Nippondenso Co., Ltd.; and Nippon Soken, Inc. Ceramic heater. 4,644,133, 2-17-87, Cl. 219-270.000.

Atsumi, Morihiro: *See—*
- Ito, Novuei; Atsumi, Kinya; Yoshida, Hitoshi; and Atsumi, Morihiro, 4,634,837, Cl. 219-270.000.
- Nakamura, Naotaka; Yagi, Kenji; Yamaguchi, Shunzo, Yoshida, Ichirou; and Atsumi, Morihiro, 4,681,989, Cl. 200-19.00R.
- Yamada, Manabu; Yoshida, Ichirou; Yamaguchi, Shunzo; and Atsumi, Morihiro, 4,713,582, Cl. 315-58.000.
- Yoshida, Ichirou; Atsumi, Morihiro; Nakamura, Naotaka; Yagi, Kenji; Yamaguchi, Shunzo; and Yamada, Manabu, 4,640,996, Cl. 200-19.00R.

Atsumi, Senji: *See—*
- Kajihara, Takehiro; Atsumi, Senji; and Izumiya, Hirotsugu, 4,665,544, Cl. 313-624.000.
- Kajihara, Takehiro; Atsumi, Senji; and Izumiya, Hirotsugu, 4,687,969, Cl. 313-625.000.

Atsumi, Shigeru: *See—*
- Tanaka, Sumio; Saito, Shinji; and Atsumi, Shigeru, 4,692,902, Cl. 365-210.000.
- Tanaka, Sumio; Saito, Shinji; Atsumi, Shigeru; and Ohtsuka, Nobuaki, 4,694,429, Cl. 365-189.000.

Atsumi, Takeo: *See—*
- Sasamoto, Yasuhiko; Atsumi, Takeo; Suzuki, Shin; and Hoshi, Masakazu, 4,666,720, Cl. 426-104.000.

Atsumi, Tomiaki: *See—*
- Ichikawa, Noriyuki; Suzuki, Tetsushi; and Atsumi, Tomiaki, 4,710,152, Cl. 474-166.000.

Atsuta, Toshio; and Yamada, Takeshi, to Kawasaki Jukogyo Kabushiki Kaisha. Method of bonding dissimilar materials. 4,699,309, 10-13-87, Cl. 228-116.000.

Atsuta, Toshio: *See—*
- Tsugaki, Shoichiro; Miyasaka, Tomoo; Nishiyama, Yukio; and Atsuta, Toshio, 4,667,543, Cl. 76-108.00A.

Atsuumi, Masaru: *See—*
- Higuchi, Masaaki; and Atsuumi, Masaru, 4,660,521, Cl. 123-376.000.

Attain, Inc.: *See—*
- Haven, Kenneth R., 4,695,024, Cl. 248-281.100.

Attal, Jacques; and Cambon, Gaston, to Centre National de la Recherche Scientifique. Acoustic microscope for analyzing an object in depth having aspherical lenses. 4,641,530, 2-10-87, Cl. 73-606.000.

Attal, Lucien: *See—*
- Kaplan, David G.; Pazirandeh, Said; Alvarado, Mario M.; and Attal, Lucien, 4,668,446, Cl. 264-1.700.

Attar, Amir J., to Perfect View Incorporated. Reagent for colorimetrically indicating the presence of formaldehyde. 4,666,859, 5-19-87, Cl. 436-130.000.

Attarwala, Shabbir: *See—*
- Narang, Subhash C.; and Attarwala, Shabbir, 4,663,269, Cl. 430-326.000.

Attaway, Julian J.: *See—*
- Nicholas, John D.; Petree, Larry M.; and Attaway, Julian J., 4,651,488, Cl. 52-396.000.
- Nicholas, John D.; Petree, Larry M.; and Attaway, Julian J., 4,674,252, Cl. 52-396.000.
- Nicholas, John D.; Petree, Larry M.; and Attaway, Julian J., 4,708,517, Cl. 404-64.000.
- Petree, Larry M.; Attaway, Julian J.; and Driggers, Randolph W., 4,649,684, Cl. 52-395.000.

Atteberry, Jack H.; and Clark, Rupert D., to AT&T Technologies, Inc. Method of supporting an article. 4,644,639, 2-24-87, Cl. 29-589.000.

Attena, Giancarlo: *See—*

Notaro, Giuseppe; and Attena, Giancarlo, 4,664,429, Cl. 292-201.000.

Attenborough, Colin, to Plessey Overseas Limited. Fractional N frequency synthesizer with modulation compensation. 4,686,488, 8-11-87, Cl. 331-2.000.

Attenborough, Frank R.: *See—*

Bryant, Michael J.; Attenborough, Frank R.; Sykes, Christopher G.; and Cameron, Neil W., 4,638,469, Cl. 367-154.000.

Atterbury, William G.: *See—*

Renner, G. Frederick; Thatcher, Richard K.; Atterbury, William G.; Harris, Jeremy M.; Hartman, Nile F.; and McCown, Robert B., 4,641,027, Cl. 250-237.00G.

Atterby, Adam: *See—*

Atterby, Fred G. V.; Atterby, Mikael; and Atterby, Adam, 4,667,910, Cl. 248-71.000.

Atterby, Fred G. V.; Atterby, Mikael; and Atterby, Adam. Devices for suspension of objects. 4,667,910, 5-26-87, Cl. 248-71.000.

Atterby, Mikael: *See—*

Atterby, Fred G. V.; Atterby, Mikael; and Atterby, Adam, 4,667,910, Cl. 248-71.000.

Attermeier, Kurt R., to Baxter Travenol Laboratories, Inc. Roller clamp having improved infeed section. 4,662,599, 5-5-87, Cl. 251-6.000.

Atterton and Ellis Limited: *See—*

Bernhard, Stephen, 4,694,613, Cl. 51-34.00C.

Attey, Graeme S. Sailboard booms. 4,660,489, 4-28-87, Cl. 114-39.000.

Attinger, Thomas: *See—*

Foeldesi, Mihaly; and Attinger, Thomas, 4,662,822, Cl. 415-213.00C.

Attoe, Gary N.: *See—*

Abel, Kent W.; and Attoe, Gary N., 4,713,132, Cl. 156-73.100.

Attri, Arun K.: *See—*

Minton, Allen P.; Attri, Arun K.; and Sullivan, James V., 4,693,984, Cl. 436-180.000.

Attwood, Brian E. Harmonic-resonant power supply. 4,692,851, 9-8-87, Cl. 363-16.000.

Attwood Corporation: *See—*

Whitley, Warwick M., II, 4,712,501, Cl. 114-211.000.

Attwood, Michael R.; Hassall, Cedric H.; Lambert, Robert W.; Lawton, Geoffrey; and Redshaw, Sally, to Hoffmann-La Roche Inc. Pyrazolo [1,2-a][1,2]-diazepines useful as antihypertensives. 4,658,024, 4-14-87, Cl. 540-500.000.

Atul Products Limited, The: *See—*

Patel, Nagajibhai T.; Kulkarni, Subrao S.; and Bhatt, Garish I., 4,699,628, Cl. 8-641.000.

Atun, Albert: *See—*

De Luca, Paul V.; Atun, Albert; and Shatzkin, Michael, 4,649,236, Cl. 379-327.000.

Atwal, Karnail, to E. R. Squibb & Sons, Inc. 1,5-benzodiazepine compounds. 4,647,561, 3-3-87, Cl. 514-221.000.

Atwal, Karnail, to E. R. Squibb & Sons, Inc. Substituted 1,5-benzodiazepine compounds. 4,650,797, 3-17-87, Cl. 514-221.000.

Atwal, Karnail, to E. R. Squibb & Sons, Inc. Antihypertensive 1,5-benzothiazepine derivatives, compositions, and method of use therefor. 4,654,335, 3-31-87, Cl. 514-211.000.

Atwal, Karnail, to E. R. Squibb & Sons, Inc. 1,2,3,4-tetrahydro-6-substituted-4-aryl-3-substituted-2-thioxo(or oxo)-5-pyrimidinecarboxylic acids and esters and use thereof to lower blood pressure. 4,684,655, 8-4-87, Cl. 514-274.000.

Atwal, Karnail, to E. R. Squibb & Sons, Inc. 1,2,3,4-tetrahydro-6-substituted-4-aryl-3-(substituted sulfonyl)-2-thioxo(or oxo)-5-pyrimidinecarboxylic acids and esters and method of using them to lower blood pressure. 4,684,656, 8-4-87, Cl. 514-274.000.

Atwal, Karnail, to E. R. Squibb & Sons, Inc. 2-(substituted imino)-6-aryl-3,6-dihydro-4-substituted-1,5(2H)-pyrimidinecarboxylic acids and analogs. 4,689,414, 8-25-87, Cl. 544-297.000.

Atwal, Karnail: *See—*

Floyd, David; and Atwal, Karnail, 4,694,002, Cl. 514-211.000.

Atwell, Thomas L.: *See—*

Proctor, Raymond J.; Atwell, Thomas L.; Lingren, Clinton L.; and Miller, James F., 4,694,165, Cl. 250-252.100.

Atwell, William D., Jr.: *See—*

Pumo, Joseph; Atwell, William D., Jr.; and McAlister, Doyle V., 4,663,545, Cl. 307-463.000.

Atwell, William H.: *See—*

Alanko, Allan M.; and Atwell, William H., 4,659,374, Cl. 75-3.000.

Atwood, Charles W.: *See—*

Williams, Rodger W.; and Atwood, Charles W., 4,711,352, Cl. 206-365.000.

Atwood, Edwards S.: *See—*

Driscoll, John N.; and Atwood, Edwards S., 4,659,434, Cl. 204-1.00T.

Atwood, Fayette G. Apparatus and method to achieve gasification of bark and the like. 4,655,791, 4-7-87, Cl. 48-851.000.

Atwood, Harold T. Machine for dividing mass material into individual pieces. 4,676,727, 6-30-87, Cl. 425-142.000.

Atwood, Mark T.; Carlson, Frank; and Peterscheck, Hermann, to VerTech Treatment Systems, Inc. Method of removing scale from wet oxidation treatment apparatus. 4,692,252, 9-8-87, Cl. 210-761.000.

Atwood, Mark T.; and Hall, Ronald H., to VerTech Treatment Systems, Inc. Process for mitigating scale formation in tube reaction apparatus. 4,713,177, 12-15-87, Cl. 210-697.000.

Atwood, Robert W., to Mattel, Inc. Toy play set with puppet for toy action figures. 4,639,234, 1-27-87, Cl. 446-327.000.

Atwood, Steven C. Heel protector. 4,660,301, 4-28-87, Cl. 36-72.00B.

Atwood Vacuum Machine Company: *See—*

Cox, David C.; and Marx, Thomas O., 4,648,657, Cl. 297-341.000.

Atzmon, Michael; Johnson, William L.; and Verhoeven, John D., to California Institute of Technology. Metastable alloy materials produced by solid state reaction of compacted, mechanically deformed mixtures. 4,640,816, 2-3-87, Cl. 419-24.000.

Aubakirov, Marat T.; Limanov, Esengali L.; Syzdykov, Askar K.; Abdrazakov, Ravil S.; Tleuov, Murat G.; Khazhuer, Vladimir S.; Buzdov, Ruslan D.; and Khashirov, Vladislav K., to Kazakhsky Politekhnichesky Institute Imeni V.I. Lenina. Diamond crown bit. 4,681,174, 7-21-87, Cl. 175-330.000.

Aubert, Benjamin A. Body lift and walker for paralytics. 4,704,749, 11-10-87, Cl. 5-81.00B.

Aubert, Gilles, to Commissariat a l'Energie Atomique. Device for removably fixing an internal structure to a circular wall inside an envelope. 4,693,279, 9-15-87, Cl. 138-108.000.

Aubert, James H.; Clough, Roger L.; Curro, John G.; Quintana, Carlos A.; Russick, Edward M.; and Shaw, Montgomery T., to United States of America, Energy. Low density microcellular foams. 4,673,695, 6-16-87, Cl. 521-64.000.

Aubert, Jean, to Groupement d'Interet Economique dit: Hydrro-Orgue. Prefabricated civil engineering module, method for the construction of a structure including said module and resulting structure. 4,661,014, 4-28-87, Cl. 405-111.000.

Aubert, Jean, to de la Perriere, Nancy. Foundation and method for improving the resistance to sliding of civil engineering structures. 4,704,052, 11-3-87, Cl. 405-229.000.

Aubert, Lucien; Anthoine, Philippe; and Corcuff, Pierre A., to L'Oreal. Process and installation for the appreciation of variations in time of characteristics of a zone of or the whole of a person. 4,670,781, 6-2-87, Cl. 358-93.000.

Aubert, Lucien P.: *See—*

Marissal, Jeanine; and Aubert, Lucien P., 4,684,522, Cl. 424-195.100.

Aubert, Michel: *See—*

Artaud, Robert; Aubert, Michel; and Renaux, Charley, 4,655,996, Cl. 376-272.000.

Aubert, Paul: *See—*

Leorat, Francois; Coutant, Patrick; and Aubert, Paul, 4,664,137, Cl. 137-118.000.

Leorat, Francois; Coutant, Patrick; and Aubert, Paul, 4,679,988, Cl. 417-218.000.

Leorat, Francois; Coutant, Patrick; and Aubert, Paul, 4,691,597, Cl. 74-869.000.

Aubert, Stephen A. Desensitized explosive composition. 4,705,582, 11-10-87, Cl. 149-92.000.

Auberti Georges. Depilatory apparatus and method for depilitating slaughtered animals. 4,674,152, 6-23-87, Cl. 17-47.000.

Aubin, Sylvain, to Etat Francais represente par le Ministre des PTT (Centre National d'Etudes des Telecommunications). Sound production device. 4,658,427, 4-14-87, Cl. 381-124.000.

Aubourg, Peter L.; and Carrick, John W. Rotatable building frame. 4,644,707, 2-24-87, Cl. 52-65.000.

Aubree, Jean: *See—*

Denhez, Alain; Hargoaa, Francis; and Aubree, Jean, 4,692,932, Cl. 375-107.000.

Denhez, Alain; Hargoaa, Francis; and Aubree, Jean, 4,694,291, Cl. 340-825.200.

Denhez, Alain; Hargoaa, Francis; and Aubree, Jean, 4,698,826, Cl. 375-3.000.

Aubrey, Leonard S.: *See—*

Brockmeyer, Jerry W.; Aubrey, Leonard S.; Dore, James E.; and Soble, Clifford N., 4,708,326, Cl. 266-159.000.

Aubrey, Truman. Adaptors for fluorescent lamps. 4,683,402, 7-28-87, Cl. 315-56.000.

Aubry, Claude: *See—*

Drabowitch, Serge; Aubry, Claude; Casseau, Daniel; and Bouko, Jean, 4,665,405, Cl. 343-756.000.

Drabowitch, Serge; Aubry, Claude; and Casseau, Daniel, 4,672,378, Cl. 342-17.000.

Aubry, Jacques, to Societe Nationale Industrielle et Aerospatiale. Process for connecting an element to one end of a tube of composite material and device thus obtained. 4,706,364, 11-17-87, Cl. 29-458.000.

Aubry, Jean P.: *See—*

Debaisieux, Andre; and Aubry, Jean P., 4,686,324, Cl. 174-17.050.

Aubry, Paul E.; and Poklukar, Josef. Reinforced plastic bag. 4,708,705, 11-24-87, Cl. 493-211.000.

Auburn Gear, Inc.: *See—*

Engle, James L., 4,692,049, Cl. 403-1.000.

Auburn International, Inc.: *See—*

Dechene, Ronald L.; and Newton, Robert E., 4,714,890, Cl. 324-454.000.

Aucagne, Jean: *See—*

Auduc, Herve; and Aucagne, Jean, 4,690,851, Cl. 428-116.000.

Auch, Wilfried; and Schlemper, Eberhard, to International Standard Electric Corporation. Acoustooptical modulator and/or deflector. 4,638,266, 1-20-87, Cl. 332-7.510.

Auch, Wilfried; Graf, Helmut; and Schlemper, Eberhard, to Standard Elektrik Lorenz Aktiengesellschaft. Rotation rate measuring instrument. 4,704,032, 11-3-87, Cl. 356-350.000.

Auch, Wilfried: *See—*

Ulrich, Reinhard; and Auch, Wilfried, 4,704,031, Cl. 356-350.000.

Auchter, Matthias J. Manual measuring tool for rolls of material. 4,677,752, 7-7-87, Cl. 33-128.000.

Auchterlonie, David T. T.: *See—*

Bryson, Neil B.; Auchterlonie, David T. T.; LeBlanc, Guy; and Newberry, Vincent J., 4,709,744, Cl. 164-472.000.

Aucktor, Erich; and Gartner, Gunter, to Lohr & Bromkamp GmbH. Constant velocity ratio universal joint. 4,678,453, 7-7-87, Cl. 464-144.000.

Aucoin, Daniel A., to Dow Chemical Company, The. Fail-safe electrical-ground indicator. 4,642,554, 2-10-87, Cl. 324-51.000.

Au Coin, Thomas: *See—*

Iafrate, Gerald J.; Malik, Roger J.; and Au Coin, Thomas, 4,667,211, Cl. 357-4.000.

AuCoin, Thomas R.: *See—*

Dixon, Samuel, Jr.; AuCoin, Thomas R.; and Malik, Roger J., 4,654,609, Cl. 333-17.00L.

Aucouturier, Jeanne; Leboutet, Hubert; and Pourre, Jean-Louis, to CGR/MEV. Power modulator provided with a transformer. 4,682,114, 7-21-87, Cl. 328-67.000.

Audeh, Costandi A., to Mobil Oil Corporation. Process for the elimination of pyrite. 4,640,692, 2-3-87, Cl. 44-1.0SR.

Audeh, Costandi A., to Mobil Oil Corporation. Recovery of sulfur from sulfur froth. 4,647,287, 3-3-87, Cl. 23-293.00S.

Audeh, Zuheir L., to Center for Blood Research. Non-mechanical buffer circulation apparatus for electrophoresis. 4,702,814, 10-27-87, Cl. 204-299.00R.

Audesse, Emery G., to GTE Products Corporation. Fluorescent lamp circuit breaker with low contact resistance. 4,656,396, 4-7-87, Cl. 315-73.000.

Audesse, Emery G.: *See—*

Kling, Michael R.; and Audesse, Emery G., 4,646,050, Cl. 337-27.000.

Audet, Gerard. Razor holder. 4,644,645, 2-24-87, Cl. 30-41.000.

Audi AG: *See—*

Bauder, Armin, 4,683,850, Cl. 123-195.00C.

Brand, Martin, 4,658,797, Cl. 123-520.000.

Freudenberg, Steffen, 4,688,847, Cl. 296-146.000.

Hollerweger, Heinz; Kuipers, Geert; Steiner, Peter; and Zahl, Josef. 4,652,011, Cl. 280-771.000.

Naumann, Fritz, 4,671,523, Cl. 280-91.000.

Ruf, Max; Korostenski, Erwin; and Steinwart, Johannes, 4,643,138, Cl. 123-52.00M.

Ruf, Max; and Korostenski, Erwin, 4,699,092, Cl. 123-41.82R.

Vollmer, Elmar; Hofmann, Jens; and Adam, Helmut, 4,703,827, Cl. 180-232.000.

Vollrath, Johannes, 4,636,921, Cl. 362-61.000.

Audi, Josef: *See—*

Halberschmidt, Friedrich; Reinmold, Heinz-Josef; Schwarzenberg, Norbert; Radermacher, Herbert; Blank, Kurt; Audi, Josef; and Vanaschen, Luc, 4,682,997, Cl. 65-106.000.

Audi NSU Auto Union Aktiengesellschaft: *See—*

Bier, Axel, 4,638,174, Cl. 307-10.0LS.

Audibert, Francoise; Carelli, Claude; Chedid, Louis; Lefrancier, Pierre; Level, Michel; and Choay, Jean, to Agence Nationale de Valorisation de la Recherche. Conjugates of haptenes and muramyl-peptides, endowed with immunogenic activity and compositions containing them. 4,639,512, 1-27-87, Cl. 530-313.000.

Audibert, Francoise: *See—*

Beachey, Edwin H.; Tartar, Andre; Gras-Masse, Helene; Jolivet, Michel; Audibert, Francoise; and Chedid, Louis, 4,695,562, Cl. 514-13.000.

Lefrancier, Pierre; Parant, Monique; Audibert, Francoise; Chedid, Louis; Choay, Jean; and Lederer, Edgar, 4,693,998, Cl. 514-62.000.

Audicom Corporation: *See—*

Howard, Jonathan M., 4,703,476, Cl. 370-76.000.

Audimax, Inc.: *See—*

Guinta, Robert R., 4,667,676, Cl. 128-419.00R.

Audio Science Investors Limited Partnership: *See—*

Wilkinson, James P.; and Halverson, Thomas R., 4,701,750, Cl. 340-384.00E.

Audio Technica U.S., Inc.: *See—*

Reichel, Kenneth R.; and Hebrock, Steve, 4,691,349, Cl. 379-391.000.

Reichel, Kenneth R.; and Hebrock, Steve, 4,712,093, Cl. 340-540.000.

Audiosone, Inc.: *See—*

Berry, Robert W., III, 4,703,312, Cl. 340-506.000.

Audoin, Michel: *See—*

Gerard, Jean-Louis; Berthet, Pierre; Bricot, Claude; and Audoin, Michel, 4,669,077, Cl. 369-275.000.

udouin, Alain: *See—*

Angles, Michel; Hoornaert, Pierre; Audouin, Alain; Roques, Henri; Aurelle, Yves; and Lopez, Louis, 4,650,581, Cl. 210-398.000.

udrix, Jean C.: *See—*

Charransol, Pierre; Audrix, Jean C.; and Athenes, Claude, 4,644,382, Cl. 357-42.000.

drix, Jean-Claude: *See—*

Charransol, Pierre; Audrix, Jean-Claude; and Gouit, Jacques. 4,654,823, Cl. 365-174.000.

luc, Herve; and Aucagne, Jean, to Brochier S.A. Fabric based on lass and carbon fibers and articles comprising such a fabric. 690,851, 9-1-87, Cl. 428-116.000.

l, RaeAnn M.; Jolson, Joseph D.; and Stewart, David A., to Mine fety Appliances Company. Electrochemical determination of rmaldehyde. 4,692,220, 9-8-87, Cl. 204-1.00T.

Auel, RaeAnn M.: *See—*

Schneider, Alan A.; Stewart, David A.; Jolson, Joseph D.; Auel, RaeAnn M.; and Price, John F., 4,707,242, Cl. 204-412.000.

Auel, Theodor; Mueller-Starke, Hans; and Stoffel, Erwin, to Benckiser-Knapsack GmbH, Dr. Albert-Reimann. Process for the production of crystalline alkali metal aluminum phosphate. 4,704,211, 11-3-87, Cl. 252-1.000.

Auer, Ekkehard, to Voest-Alpine Aktiengesellschaft. Penetrator for a driving-cage projectile and the process of manufacturing the same. 4,665,828, 5-19-87, Cl. 102-519.000.

Auer, Ekkehard: *See—*

Zierler, Reinhard; and Auer, Ekkehard, 4,671,182, Cl. 102-521.000.

Auer, John H., Jr.; and Petit, William A., to General Signal Corporation. Radio based railway signaling and traffic control system. 4,711,418, 12-8-87, Cl. 246-5.000.

Auer, Robert E., to Coulter Corporation. Method of and apparatus for detecting change in the breakoff point in a droplet generation system. 4,691,829, 9-8-87, Cl. 209-3.100.

Auerbach, Andrew; and Natarajan, Kavilipalayam, to Celanese Corporation. Oxymethylene polymer molding compositions having enhanced resistance to black speck formation. 4,666,995, 5-19-87, Cl. 525-400.000.

Auerbach, Andrew B.; and McKie, Derrick B., to Celanese Corporation. Glass fiber-reinforced oxymethylene polymer molding compositions having mechanical properties enhanced by amino-formaldehyde resin coupling agents. 4,652,594, 3-24-87, Cl. 523-208.000.

Auerbach, Andrew B.; and McKie, Derrick B., to Celanese Corporation. Use of amino resins to improve properties of oxymethylene polymer molding compositions. 4,689,373, 8-25-87, Cl. 525-398.000.

Auerbach, Anthony: *See—*

Sachs, Frederick; Auerbach, Anthony; McGarrigle, Richard G.; and Neil, James E., 4,695,709, Cl. 219-494.000.

Auerbach, Daniel J.: *See—*

Alnot, Patrick R.; Auerbach, Daniel J.; Brundle, Christopher R.; and Miller, Dolores C., 4,640,718, Cl. 134-2.000.

Auerbach, David R., to Pitney Bowes Inc. Envelope moistening apparatus. 4,643,123, 2-17-87, Cl. 118-32.000.

Auerbach, Jeffrey I.; and Rosenberg, Martin, to SmithKline Beckman Corporation. Externalization of products of bacteria. 4,637,980, 1-20-87, Cl. 435-68.000.

Auerbach, Joseph: *See—*

Huang, Fu-chih; and Auerbach, Joseph, 4,644,009, Cl. 514-423.000.

Aufdembrinke, Bernd; Dorow, Rainer; Horowski, Reinhard; Suchy, Irmgard; Schroeder, Gertrud; Wachtel, Helmut; Kehr, Wolfgang; and Stock, Gunter, to Schering Aktiengesellschaft. Use of terguride as a geriatric agent. 4,711,891, 12-8-87, Cl. 514-313.000.

Aufderheide, Brian E., to W. H. Brady Co. Rapidly removable undercoating for vacuum deposition of patterned layers onto substrates. 4,714,631, 12-22-87, Cl. 427-250.000.

Aufiero, James M., to Itek Corporation. Digital frame processor pipe line circuit. 4,710,966, 12-1-87, Cl. 382-69.000.

Aufiero, James M.: *See—*

Wojcik, David R.; Jones, Richard J.; and Aufiero, James M., 4,680,628, Cl. 358-111.000.

Aug. Winkhaus GmbH & Co. KG: *See—*

Mayer, Siegfried; and Greisner, Paul, 4,691,950, Cl. 292-269.000.

Augart, Dietmar; Eilingsfeld, Heinz; Krueger, Heinz; Lardon, Hartmut; Schaffer, Ortwin; and Seybold, Guenther, to BASF Aktiengesellschaft. Reactive dyes containing substituted 4-fluoropyridaz-6-one radicals. 4,677,199, 6-30-87, Cl. 534-618.000.

Augason, Gordon C., to United States of America, National Aeronautics and Space Administration. Method and apparatus for making an optical element having a dielectric film. 4,684,424, 8-4-87, Cl. 156-163.000.

Augat Inc.: *See—*

Cooney, James S.; and Sicard, Stephen T., 4,636,026, Cl. 339-255.00R.

Holt, Richard C., 4,648,180, Cl. 29-847.000.

Holt, Richard C., 4,698,275, Cl. 428-40.000.

Muehling, Richard, 4,677,526, Cl. 361-386.000.

Nonaka, Yoshimasa, 4,647,134, Cl. 339-75.00M.

Walkup, William B., 4,714,442, Cl. 439-844.000.

Auge, Karl-Hans: *See—*

Lorenz, Kurt; Dungs, Horst; and Auge, Karl-Hans, 4,701,243, Cl. 201-3.000.

Augello, Daniel; Robert, Pierre H.; Teshima, Toru; and Naete, Hidehiko, to Regie Nationale des Usines Renault; and Stanley Electric Co., Ltd. Display unit for trip computer. 4,663,718, 5-5-87, Cl. 364-444.000.

Augello, Frank A.: *See—*

Prais, Alfred W.; and Augello, Frank A., 4,699,291, Cl. 220-319.000.

Augelmann, Gerard: *See—*

Regimbeau, Guy; Augelmann, Gerard; and Disdier, Camille, 4,701,560, Cl. 564-404.000.

Augendre, Claude; Rapidel, Jean-Loup; and Hennes, Jacques, to Facom. Wheel balancing machine, particularly for automobile wheels. 4,712,425, 12-15-87, Cl. 73-460.000.

Auger, Genevieve: *See—*

Bach, Jean-Francois; Dardenne, Mireille; Pleau, Jean-Marie; Hamburger, Jean; Bricas, Evangheios; Martinez, Jean; Blanot, Didier; Auger, Genevieve; Lefrancier, Pierre; and Amor, Bernard, 4,680,276, Cl. 436-542.000.

Auger, Jean; and Laflamme, Donald, to Hydro-Quebec. Universal apparatus for detecting faults in microprocessor systems. 4,703,482, 10-27-87, Cl. 371-16.000.

Auger, Jean: *See—*
Behar, Francoise; Roucache, Jeannine; Auger, Jean; and Boudet, Luc, 4,710,354, Cl. 422-80.000.

Auger, Marc, to Centre Technique des Industries Mecaniques. Method and device for controlling the acceleration of an electric stepping motor. 4,684,865, 8-4-87, Cl. 318-696.000.

Auger, Mederic E.: *See—*
Viertl, John R. M.; and Auger, Mederic E., 4,706,020, Cl. 324-238.000.

Aughton, John E., to Crosfield Electronics Limited. Light beam-splitter. 4,645,302, 2-24-87, Cl. 350-173.000.

Aughton, John E., to Crosfield Electronics Limited. Light beam splitter. 4,659,185, 4-21-87, Cl. 350-394.000.

Aughton, John E., to Crosfield Electronics Limited. Controlling light beam spectrum. 4,660,975, 4-28-87, Cl. 356-308.000.

Augier, Pierre J., to Uniroyal Goodrich Tire Company, The. Automotive vehicle tire and mounting system therefor. 4,658,876, 4-21-87, Cl. 152-394.000.

Augoyard, Jean-Pierre, to GTM-Entrepose. Sliding formwork machine with two extruding plates for constructing continuously reinforced concrete roadways. 4,636,110, 1-13-87, Cl. 404-100.000.

Augsberg, Gerhard: *See—*
Kramp, Jurgen; Schramm, Peter; Augsberg, Gerhard; and Steiner, Gerd, 4,660,470, Cl. 101-426.000.

Augsburger, Harold A. Centering tool. 4,652,188, 3-24-87, Cl. 409-131.000.

Augst, Herbert: *See—*
Fischer, Georg; Augst, Herbert; and Langenhahn, Lutz, 4,667,709, Cl. 141-91.000.

August Bilstein GmbH & Co. KG: *See—*
Munning, Hans; Bock, Jurgen; Oldach, Bernd; Ladic, Josef; Rauert, Max-Otto; Emde, Hugo; Petzsch, Dietrich; and de Baan, Johannes J., 4,660,686, Cl. 188-280.000.
Munning, Hans; Bock, Jurgen; Oldach, Bernd; Ladic, Josef; Rauert, Max-Otto; Emde, Hugo; Petzsch, Dietrich; and de Baan, Johannes J., 4,673,067, Cl. 188-299.000.

August Froscher GmbH & Co. K.G., Firma: *See—*
Hilger, Wilfried; and Muller, Oscar, 4,645,878, Cl. 379-202.000.
Suhr, Heinz-Peter; and Weinberger, Bernd, 4,660,885, Cl. 297-353.000.
Suhr, Heinz-Peter; and Weinberger, Bernd, 4,695,093, Cl. 297-300.000.

August, Jerome M. Three-dimensional display apparatus. 4,671,632, 6-9-87, Cl. 352-58.000.

August Krempel Sohne GmbH & Co. KG: *See—*
Hurlebaus, Heinz A.; and Muller, Werner, 4,674,663, Cl. 223-1.000.

August Kuhne, Firma: *See—*
Tiede, Helge, 4,702,186, Cl. 114-39.000.

August, Melvin C.; Bowen, Stephen A.; and Williams, John T., to Cray Research, Inc. ZIE edge connector. 4,700,996, 10-20-87, Cl. 439-268.000.

August Reutershan GmbH. & Co. KG.: *See—*
Pracht, Gunther, 4,658,678, Cl. 81-3.290.

August Sauter GmbH: *See—*
Backu, Konrad; Ast, Adolf; and Mogg, Herbert, 4,669,558, Cl. 177-187.000.

Augustin, Harald. Apparatus for the measurement of surface friction. 4,712,418, 12-15-87, Cl. 73-9.000.

Augustin, Kurt: *See—*
Gallo, Bruce M.; Hannon, Charles; and Augustin, Kurt, 4,699,591, Cl. 439-21.000.
Gallo, Bruce M.; Hannon, Charles; and Augustin, Kurt, 4,699,592, Cl. 439-27.000.

Augustin, Ulrich, to Daimler-Benz Aktiengesellschaft. Injection nozzle for an air-compression fuel-injection internal combustion engine. 4,650,121, 3-17-87, Cl. 239-464.000.

Augustin, Ulrich, to Daimler-Benz Aktiengesellschaft. Mechanical injection pump governor. 4,658,784, 4-21-87, Cl. 123-383.000.

Augustin, Viktor: *See—*
Neukomm, Peter; and Augustin, Viktor, 4,647,209, Cl. 356-376.000.

Augustin, Xavier, to Technicatome Societe Technique pour l'Energie Atomique. Mobile mixing device. 4,671,667, 6-9-87, Cl. 366-279.000.

Augustine, Douglas J.: *See—*
Augustine, Scott D.; and Augustine, Douglas J., 4,662,870, Cl. 604-117.000.

Augustine, Larry J., to Advanced Technology Laboratories, Inc. High resolution multiline ultrasonic beamformer. 4,644,795, 2-24-87, Cl. 73-625.000.

Augustine, Michael E.: *See—*
Batterman, Cynthia K.; Augustine, Michael E.; and Dial, James R., 4,676,991, Cl. 426-658.000.

Augustine, Robert J.: *See—*
Picone, Thomas L.; Augustine, Robert J.; and Appel, Eggert, 4,658,652, Cl. 73-861.120.

Augustine, Scott D.; and Augustine, Douglas J. Needle penetration indicator and guide. 4,662,870, 5-5-87, Cl. 604-117.000.

Augustus Worx, Inc.: *See—*
Kaylor, Marvin A., 4,659,436, Cl. 204-16.000.

Augustyn, Walter H., to CMX Systems, Inc. Optical phase decoder for interferometers. 4,702,603, 10-27-87, Cl. 356-351.000.

Augustyniak, George E. Filtration, aeration, and water level control means for aquariums. 4,684,462, 8-4-87, Cl. 210-97.000.

Auinger, Herbert, to Siemens Aktiengesellschaft. Rotor for an electrical machine with axial and radial cooling channels. 4,641,051, 2-3-87, Cl. 310-61.000.

Aujla, Sharanjit S.; Debortoli, George; and Contardo, Remo, to Northern Telecom Limited. Insulation displacing terminal with cantilever spring contact members. 4,682,835, 7-28-87, Cl. 439-395.000.

Aujla, Sharanjit S.: *See—*
DeBortoli, George; Contardo, Remo; and Aujla, Sharanjit S., 4,652,071, Cl. 339-99.00R.

Aul, George N.: *See—*
Richards, Walter L.; Henderson, Roger L.; Aul, George N.; and Pauley, Barry W., 4,687,060, Cl. 166-285.000.
Richards, Walter L.; Henderson, Roger L.; Aul, George N.; and Pauley, Barry W., 4,691,789, Cl. 175-62.000.

Aula, Jouko; and Kerttula, Reima, to Valmet Oy. Suction roll and method for applying a negative pressure over a sector of a roll. 4,693,784, 9-15-87, Cl. 162-202.000.

Auld, Frederick H., Jr.; and Walker, David L., to Zenith Electronics Corporation. Non-linear sync signal processing circuit. 4,703,354, 10-27-87, Cl. 358-148.000.

Aulds, James M.; and Becker, Roger J., to United States of America, Air Force. Proportional drive servo controller with arrayed position detector. 4,710,641, 12-1-87, Cl. 250-554.000.

Aulich, Hubert; and Schulze, Friedrich-Wilhelm, to Siemens Aktiengesellschaft. Method for separating solid reaction products from silicon produced in an arc furnace. 4,643,833, 2-17-87, Cl. 210-714.000.

Ault, Earie A.: *See—*
Field, Thomas T.; Murrin, Thomas A.; and Ault, Earle A., 4,708,750, Cl. 148-11.50N.

Ault, Joseph W.: *See—*
Hong, Ki C.; Griston, Suzanne; and Ault, Joseph W., 4,640,355, Cl. 166-269.000.

Ault, Robert M., to TRE Corporation. Honeycomb core load bearing structure. 4,695,495, 9-22-87, Cl. 428-73.000.

Ault, Russell L.: *See—*
Carter, Neil A.; Harris, Ronald R.; and Ault, Russell L., 4,681,722, Cl. 264-171.000.
Harris, Ronald R.; and Ault, Russell L., 4,640,065, Cl. 52-204.000.

Aumann, Gunther; Aigner, Helmar; and Schuster, Hans-Karl, to Gessner & Co. GmbH. Multilayer filter material, process for its manufacture and the use thereof. 4,661,255, 4-28-87, Cl. 210-491.000.

Aumueller, Alexander: *See—*
Helwig, Reinhard; Neumann, Peter; Aumueller, Alexander; and Trauth, Hubert, 4,703,072, Cl. 524-99.000.

Aumund-Fordererbau GmbH Maschinenfabrik: *See—*
Howe, Michael; and Schwarz, Waldemar, 4,697,696, Cl. 198-822.000.

Aune, Jan A.; and Nos, Per O., to Elkem a/s. Sidewall for a metallurgical smelting furnace. 4,674,728, 6-23-87, Cl. 266-193.000.

Aune, Jan A. J.; and Evensen, Knut K., to Elkem a/s. Means for charging liquid slag to a closed smelting furnace. 4,696,457, 9-29-87, Cl. 266-207.000.

Aune, Thomas M.: *See—*
Schnaper, H. William; and Aune, Thomas M., 4,665,021, Cl. 435-7.000.

Aunger, Kim G. Rear window vehicle louvres. 4,652,038, 3-24-87, Cl. 296-97.00A.

Aunger, Kim Garfield: *See—*
Gaston, Ronald, 4,685,717, Cl. 296-97.00A.

Aungst, Bruce J.; and Hussain, Munir A., to Du Pont de Nemours, E. I. and Company. Use of prodrugs of 3-hydroxymorphinans to prevent bitter taste upon buccal, nasal or sublingual administration. 4,673,679, 6-16-87, Cl. 514-282.000.

Aupac Co., Ltd.: *See—*
Yoshida, Makoto, 4,698,538, Cl. 310-179.000.

Auping b.v.: *See—*
Savenije, Franciscus G., 4,682,378, Cl. 5-239.000.

Aupperle, Donald P., to Robbins & Craig Welding & Manufacturing Co. Loading and unloading system for piece part carrier. 4,659,281, 4-21-87, Cl. 414-787.000.

Aur Hydropower Limited: *See—*
Smith, Iain M., 4,691,514, Cl. 60-503.000.

Auracher, Franz, to Siemens Aktiengesellschaft. Arrangement for producing a junction between a microstrip line and a coplanar transmission line. 4,692,720, 9-8-87, Cl. 333-33.000.

Auracher, Franz, to Siemens Aktiengesellschaft. Controllable directional coupler. 4,709,977, 12-1-87, Cl. 350-96.140.

Auracher, Franz, to Siemens Aktiengesellschaft. Controllable integrated optical component. 4,714,311, 12-22-87, Cl. 350-96.110.

Auregan, Marcel: *See—*
Clarisse, Christian; Riou nee Meston, Marie-Therese; and Auregan, Marcel, 4,649,195, Cl. 540-143.000.

Aurelle, Yves: *See—*
Angles, Michel; Hoornaert, Pierre; Audouin, Alain; Roques, Henri; Aurelle, Yves; and Lopez, Louis, 4,650,581, Cl. 210-398.000.

Aurich, Hans P.: *See—*
Mumcu, Salih; Aurich, Hans P.; and Winzer, Helmut, 4,689,364, Cl. 524-497.000.

Aurich, John P. Containment system. 4,683,762, 8-4-87, Cl. 73-863.580.

Aurichio, Joseph A., to Stauffer Chemical Company. Removal of semiconductor wafers from dicing film. 4,664,739, 5-12-87, Cl. 156-344.000.

Aurichio, Joseph A.: *See—*
Goswami, Jagadish C.; and Aurichio, Joseph A., 4,692,272, Cl. 252-514.000.
Sheyon, Gregory M.; and Aurichio, Joseph A., 4,687,693, Cl. 428-148.000.

urness, Harold O.; Rowe, Blaine F.; and Tremann, Arno J. Gravity impelled personal lowering vehicle. 4,650,033, 3-17-87, Cl. 182-7.000.

urora Konrad G. Schulz GmbH & Co.: *See—*
Schulz, Joachim, 4,658,598, Cl. 62-239.000.

urora Mechatronecs Corp.: *See—*
Kuo, Calven, 4,680,455, Cl. 235-146.000.

urousseau, Michel E.: *See—*
Robba, Max F.; and Aurousseau, Michel E., 4,673,675, Cl. 514-252.000.

uschrat, Siegfried, to Sihi GmbH & Co. KG. Liquid ring compressor having a passageway in discharge port for introducing air. 4,634,348, 1-6-87, Cl. 417-68.000.

uschrat, Siegfried, to Sihi GmbH & Co. KG. Liquid ring compressor having openings in housing for emptying liquid during stoppage. 4,685,865, 8-11-87, Cl. 417-68.000.

uschrat, Siegfried: *See—*
Segebrecht, Udo; and Auschrat, Siegfried, 4,710,105, Cl. 417-68.000.

usherman, Ronald W.: *See—*
Cornell, William D.; Gilson, Richard W.; Burkholder, Richard A.; and Ausherman, Ronald W., 4,702,261, Cl. 128-754.000.

usikaitis, Joseph P.: *See—*
Sherman, John D.; Nagji, Moez M.; Ross, Ronald J.; Ausikaitis, Joseph P.; and Garg, Desh R., 4,663,052, Cl. 210-679.000.

usimont S.p.A.: *See—*
Bargigia, Gianangelo; Tortelli, Vito; and Tonelli, Claudio, 4,654,448, Cl. 570-156.000.
Gavezotti, Piero; and Strepparola, Ezio, 4,681,693, Cl. 252-49.900.
Marchionni, Giuseppe; Tonelli, Claudio; and Nicoletti, Alberto, 4,684,452, Cl. 204-157.940.
Re, Alberto; and Terenghi, Tiziano, 4,699,969, Cl. 528-70.000.
Strepparola, Ezio; and Re, Alberto, 4,681,925, Cl. 525-246.000.

Ausimont, U.S.A., Inc.: *See—*
Chung, Daniel C.; and Chu, Kwang-Ho, 4,702,961, Cl. 428-379.000.
DeAntonis, Ferdinand A.; and Murrell, William H., 4,677,017, Cl. 428-214.000.
Wilson, George S.; Kline, Harvey E.; and Mackey, Joseph E., 4,702,956, Cl. 428-251.000.

Auslander, Marc A.; Hopkins, Martin E.; and Markstein, Peter W., to International Business Machines Corporation. Method of developing formal identities and program bases in an optimizing compiler. 4,642,764, 2-10-87, Cl. 364-300.000.

Auslander, Marc A.; Cocke, John; and Markstein, Peter W., to International Business Machines Corporation. Method for improving global common subexpression elimination and code motion in an optimizing compiler. 4,656,583, 4-7-87, Cl. 364-300.000.

Ausnit, Steven, to Minigrip, Inc. Zipper-lock bag chain adapter for automatic loading and heat seal closing. 4,637,060, 1-13-87, Cl. 383-37.000.

Ausnit, Steven; and Van Erden, Donald L., to Minigrip, Inc. Apparatus for making quadruple profile plastic tubing for bag. 4,651,394, 3-24-87, Cl. 29-33.00K.

Ausnit, Steven, to Minigrip, Incorporated. Funnel material for bags and method. 4,657,792, 4-14-87, Cl. 428-35.000.

Ausnit, Steven, to Minigrip, Inc. Twist resistant reclosable extruded plastic fastener. 4,660,259, 4-28-87, Cl. 24-587.000.

Ausnit, Steven; and Bentsen, Per, to Minigrip, Incorporated. Attachment of plastic zipper to incompatible bag wall web. 4,682,366, 7-21-87, Cl. 383-65.000.

Ausnit, Steven, to Minigrip, Incorporated. Zipper closure with unitary adhesive cover sheet. 4,691,373, 9-1-87, Cl. 383-63.000.

Ausnit, Steven; and Bentsen, Per, to Minigrip, Inc. Maintaining single link chain bags against skewing. 4,694,959, 9-22-87, Cl. 206-390.000.

Ausnit, Steven; and Van Erden, Donald L., to Minigrip, Inc. Quadruple profile plastic tubing for making bags. 4,698,274, 10-6-87, Cl. 428-36.000.

Ausnit, Steven, to Minigrip, Inc. Attachment of plastic zipper to the outside of incompatible bag wall web. 4,703,518, 10-27-87, Cl. 383-63.000.

Ausnit, Steven, to Minigrip, Inc. Foldable top bag and method. 4,706,297, 11-10-87, Cl. 383-63.000.

Ausnit, Steven, to Minigrip, Inc. Chain bags, method and apparatus. 4,709,398, 11-24-87, Cl. 383-63.000.

Ausnit, Steven, to Minigrip, Inc. Method and apparatus for making reclosable bags in a form, fill and seal machine. 4,709,533, 12-1-87, Cl. 53-451.000.

Ausnit, Steven: *See—*
Christoff, Paul B.; and Ausnit, Steven, 4,655,862, Cl. 156-66.000.
Hugues, Gilbert P. J. M.; and Ausnit, Steven, 4,672,723, Cl. 24-587.000.
Lems, Peter; Ausnit, Steven; and Nocek, Robert S., 4,665,552, Cl. 383-37.000.
Van Erden, Donald L.; and Ausnit, Steven, 4,663,915, Cl. 53-450.000.

Ausonia Farmaceutici s.r.l.: *See—*
De Vincentiis, Leonardo, 4,634,701, Cl. 514-232.000.

Ausserre, Dominique: *See—*
Demoulin, Catherine A.; Ausserre, Dominique; and Rondelez, Francis, 4,688,938, Cl. 356-154.000.

Austad, John. Vegetable and fruit juice extracting machine. 4,681,031, 7-21-87, Cl. 99-511.000.

Austel, Volkhard; Hauel, Norbert; Heider, Joachim; Reiffen, Manfred; Van Meel, Jacobus C. A.; and Diederen, Willi, to Dr. Karl Thomae GmbH. 2-phenyl-imidazo-pyrazines, useful as cardiotonics. 4,656,171, 4-7-87, Cl. 514-250.000.

Austel, Volkhard; Heider, Joachim; Hauel, Norbert; Reiffen, Manfred; van Meel, Jacobus C. A.; and Diederen, Willi, to Dr. Karl Thomae GmbH. Imidazo[4,5-c]pyridazine-3-ones, imidazo[4,5-d]pyridazine-4-ones, imidazo[4,5-b]pyrazin-5-ones, purin-2-ones, purin-6-ones, and purin-2,6-diones useful as hypotensive or cardiotonic agents. 4,670,438, 6-2-87, Cl. 514-249.000.

Austel, Volkhard: *See—*
Hauel, Norbert; Austel, Volkhard; Heider, Joachim; Reiffen, Manfred; and Diederen, Willi, 4,696,931, Cl. 514-261.000.
Hauel, Norbert; Austel, Volkhard; Heider, Joachim; Reiffen, Manfred; Diederen, Willi; and Haarman, Walter, 4,699,909, Cl. 514-254.000.
Heider, Joachim; Hauel, Norbert; Austel, Volkhard; Noll, Klaus; Bomhard, Andreas; van Meel, Jacques; and Diederen, Willi, 4,716,169, Cl. 514-299.000.

Austenal International, Inc.: *See—*
Kosmos, Peter, 4,645,455, Cl. 433-203.100.

Austgen-Biojet International Pty. Ltd.: *See—*
Tribe, David E., 4,681,852, Cl. 435-108.000.

Austin-Berryhill Fabrication, Inc.: *See—*
Berryhill, Robert A., 4,711,649, Cl. 55-97.000.

Austin Company, The: *See—*
Roy, Ranjit, 4,646,659, Cl. 109-73.000.

Austin, Forrest L.; and Lasley, Duncan T., to Cornelius Company, The. Beverage dispensing valve with easy opening. 4,708,155, 11-24-87, Cl. 137-1.000.

Austin, Franklin D.: *See—*
Hardey, Donald H.; and Austin, Franklin D., 4,690,198, Cl. 164-316.000.

Austin, George K., Jr.; and Lietz, Larry D., to A-DEC, Inc. Fail-secure lock system. 4,691,948, 9-8-87, Cl. 292-171.000.

Austin, Gerald W., to Professional Care Products, Inc. External single-use catheter. 4,685,913, 8-11-87, Cl. 604-349.000.

Austin, Lawthan M., Jr., to Energy Counselors, Inc. Tailgate construction. 4,652,035, 3-24-87, Cl. 296-1.00S.

Austin, Michael. Underwater ice walker. 4,642,932, 2-17-87, Cl. 43-27.200.

Austin, Paul E.: *See—*
Allcock, Harry R.; Austin, Paul E.; and Neenan, Thomas X., 4,636,387, Cl. 514-89.000.

Austin, Richard D. Cement pump with valve manifold control. 4,634,352, 1-6-87, Cl. 417-531.000.

Austin, Robert R., to ITT Corporation. Moisture monitoring system. 4,649,736, 3-17-87, Cl. 73-29.000.

Austin Rover Group Limited: *See—*
Green, Robert, 4,640,239, Cl. 123-146.50A.

Austin, Theodore D.; and Consaga, John P., to United States of America, Navy. Radar reflecting electrolytes. 4,638,316, 1-20-87, Cl. 342-14.000.

Austoft Industries Limited: *See—*
Stiff, Rodney A.; Baker, Malcolm J.; and Lester, Leslie J., 4,677,813, Cl. 56-13.900.

Australian Atomic Energy Commission: *See—*
Ramm, Eric J.; and Ringwood, Alfred E., 4,645,624, Cl. 252-628.000.

Australian Biomedical Corporation Limited: *See—*
Hollman, William, 4,688,517, Cl. 118-421.000.
Whitehead, David; Duell, Graham; and Jordon, Donald, 4,649,907, Cl. 128-84.00C.

Australian National University, The: *See—*
Ramm, Eric J.; and Ringwood, Alfred E., 4,645,624, Cl. 252-628.000.
Rickards, Rodney W.; Gill, Melvyn; and Christie, Robert M., 4,703,127, Cl. 549-214.000.

Australian Pacific Marketing Pty. Ltd.: *See—*
Holmes, Kevin J., 4,689,144, Cl. 210-130.000.

Australian Telecommunications Commission: *See—*
Phiet, Do Q., 4,644,530, Cl. 370-62.000.

Australian Transcenders International Pty. Ltd.: *See—*
Pagett, Jeffery M., 4,687,068, Cl. 180-8.200.

Australian Wool Corporation: *See—*
Roder, Edward A., 4,667,373, Cl. 19-66.00R.

Austria Metall Aktiengesellschaft: *See—*
Bertha, Josef, 4,666,514, Cl. 75-118.00R.
Eder, Theodor; and Koser, Jaroslav, 4,662,299, Cl. 114-84.000.
Fischer, Fritz, 4,634,475, Cl. 148-11.50A.
Scherzer, Wilhelm, 4,709,781, Cl. 181-290.000.

Autant, Pierre; Cartillier, Andre; and Quentin, Jean-Pierre, to A.E.C. Societe de Chimie Organique et Biologique. Coated methionine granules for ruminants. 4,675,175, 6-23-87, Cl. 424-33.000.

Autech Partners Ltd.: *See—*
Kupersmit, Carlos A., 4,672,529, Cl. 364-130.000.

Autek Systems Corporation: *See—*
McCutcheon, Samuel; Lum, Jeffrey; Solek, Roman; Harrell, Troy; and Leman, Robert, 4,710,893, Cl. 364-900.000.

Autelca AG: *See—*
Ramseier, Hans, 4,687,090, Cl. 194-317.000.
Wuethrich, Werner, 4,687,089, Cl. 194-230.000.
Wuthrich, Werner, 4,669,393, Cl. 109-48.000.

Auten & Auten, Inc.: *See—*
Auten, Howard L., 4,638,968, Cl. 248-97.000.

Auten, Howard L., to Auten & Auten, Inc. Rubbish container. 4,638,968, 1-27-87, Cl. 248-97.000.

Auth, David C., to E. R. Squibb & Sons, Inc. Transluminal thrombectomy apparatus. 4,646,736, 3-3-87, Cl. 128-303.00R.

Auth, David C.; Lawrence, Dale M.; and Majoch, Tim R., to Board of Regents, University of Washington. Thermal cautery system. 4,691,703, 9-8-87, Cl. 128-303.100.

- Auth, Gerald L., to Midac Corporation. Adjustment for reflective surfaces in interferometers. 4,671,656, 6-9-87, Cl. 356-346.000.
- Auth, Gerald L., to MIDAC Corporation. Ruggedized compact interferometer requiring minimum isolation from mechanical vibrations. 4,693,603, 9-15-87, Cl. 356-346.000.
- Auth, Werner; Lenfers, Martin; Locher, Johannes; Peter, Hans-J.; Pflug, Hannes; Friedbert, Michel; and Steiner, Josef, to Robert Bosch GmbH. System for controlling the temperature of a hot spot or a glow plug in an internal combustion engine. 4,658,772, 4-21-87, Cl. 123-145.00A.
- Author's Family Trust: *See—*
  - Ferreira, Marc; McCormick, John; Bernard, Raymond; Butryn, Joseph; and Clifford, Ronald, 4,702,259, Cl. 128-734.000.
- Autio, Markku, to Valmet Oy. Frame construction and method in a paper machine press section for facilitating replacement of press rolls and fabrics. 4,657,634, 4-14-87, Cl. 162-199.000.
- Autio, Markku, to Valmet Oy. Method in a paper machine press section for facilitating replacement of press rolls and fabrics. 4,699,692, 10-13-87, Cl. 162-199.000.
- Auto/Con Corp.: *See—*
  - Matheson, Ronald R.; Hucul, Daniel E.; Burkhardt, James; and Schepke, Joseph W., 4,669,192, Cl. 33-169.00C.
- Auto-Flush Systems Ltd.: *See—*
  - Gilmour, Alfred J., 4,691,748, Cl. 141-165.000.
- Auto Glass Specialists, Inc.: *See—*
  - Birkhauser, Robert R., III, 4,681,520, Cl. 425-12.000.
- Auto Leads, Inc.: *See—*
  - Scarano, Gary, 4,651,495, Cl. 52-747.000.
- Autobedrijf de Beemd: *See—*
  - Widlak, Marinus C. M., 4,702,424, Cl. 241-101.700.
- Autobust, Inc.: *See—*
  - Zeringue, Freddie J., Jr., 4,643,259, Cl. 166-77.500.
- Autocoussin: *See—*
  - Remy, Michel; Delaite, Jean-Francois; and Woirgard, Guy, 4,655,069, Cl. 72-306.000.
- Autoflug GmbH: *See—*
  - Klein, Gotthold; and Peters, Henning, 4,666,413, Cl. 441-92.000.
  - Nohren, Hubert, 4,635,884, Cl. 244-142.000.
- Autographic Business Forms, Inc.: *See—*
  - Shoup, Walter C., II, 4,654,805, Cl. 364-520.000.
- Autoipari Kutato es Fejleszto Vallalat: *See—*
  - Egon, Janosdeak; Tibor, Gergely; and Janos, Szabo, 4,708,226, Cl. 188-251.00A.
  - Kolya, Tibor; Szoke, Bela; Kadar, Karoly; Foti, Gyorgy; and Gecsei, Zoltan, 4,655,317, Cl. 181-257.000.
- Autoliv Development AB: *See—*
  - Andersson, Sture R.; Haland, Lars Y.; and Morner, Bengt O. J. S., 4,705,296, Cl. 280-806.000.
  - Andersson, Tommy, 4,653,703, Cl. 242-107.40R.
  - Andersson, Tommy, 4,674,700, Cl. 242-107.40R.
  - Emanuelson, Bjorn, 4,679,853, Cl. 297-468.000.
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- Autoliv Development Aktiebolag: *See—*
  - Morner, Bengt O. J. S., 4,697,826, Cl. 280-804.000.
- Automated Commercial Controls, Inc.: *See—*
  - Bagley, William A., 4,654,147, Cl. 210-744.000.
- Automated Electronic Technology, Inc.: *See—*
  - Jensen, Dennis; and Tessier, Robert, 4,675,599, Cl. 324-158.00F.
- Automated Industrial Systems: *See—*
  - Latta, William A., Jr., 4,638,144, Cl. 219-121.0LH.
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  - Bennison, Michael N., 4,644,885, Cl. 112-262.200.
  - Off, Joseph W. A.; and Ferguson, Vivian, 4,690,078, Cl. 112-121.120.
  - Rademacher, Robert E., 4,671,048, Cl. 53-572.000.
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  - Lerner, Bernard; and Liebhart, Dana, 4,651,506, Cl. 53-459.000.
  - Lerner, Hershey; and Lerner, Bernard, 4,680,205, Cl. 428-29.000.
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  - Davenport, Raymond J.; and Tomlinson, Michael A., 4,668,941, Cl. 340-550.000.
- Automated Semiconductor, Inc.: *See—*
  - Mukhtar, Saad; and Husain, Syed A., 4,696,727, Cl. 204-206.000.
- Automated Tapping Systems Inc.: *See—*
  - Pfister, William R.; and Pfister, William H., 4,692,072, Cl. 408-124.000.
- Automatic Connector, Inc.: *See—*
  - Huggins, Richard A., 4,714,432, Cl. 439-271.000.
  - Morelli, John A., 4,688,876, Cl. 439-578.000.
- Automatic Fire Control, Inc.: *See—*
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  - Weiler, Gerhard H.; and Pagels, Louis T., 4,671,762, Cl. 425-524.000.
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  - Lerner, Bernard; Liebhart, Dana; and Wehrmann, Rick S., 4,715,092, Cl. 17-52.000.
- Automatic Roller Doors Australia Pty. Ltd.: *See—*
  - Seidel, Raymond L.; and Viola, Marian, 4,701,684, Cl. 318-282.000.
- Automatic Safety Products: *See—*
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- Automatic Switch Company: *See—*
  - Vollmer, David J.; and Greame, James E., 4,679,767, Cl. 251-129.150.
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- Automation Associates, Inc.: *See—*
  - Lawrence, David M., 4,644,865, Cl. 102-430.000.
  - Moyer, William D., 4,680,842, Cl. 29-33.00P.
- Automation Development Corporation: *See—*
  - Cloyd, William C., 4,696,524, Cl. 439-197.000.
- Automation Industries, Inc.: *See—*
  - Choiniere, Alcide W.; and Dunn, George T., Jr., 4,693,324, Cl. 174-47.000.
  - Evans, Cliff; Obligado, Alvaro; and Zezza, Louis J., 4,656,714, Cl. 29-157.00C.
  - Laios, Sotirios D.; and Werner, Daniel P., 4,698,982, Cl. 62-286.000.
- Automation Intelligence, Inc.: *See—*
  - Czerniejewski, Frank R., 4,704,694, Cl. 364-513.000.
- Automation Service Equipment, Inc.: *See—*
  - Ballard, Gary R., 4,688,697, Cl. 221-298.000.
  - Murphy, Robert E.; Ballard, Gary R.; and Kuechenmeister, Rodney D., 4,694,953, Cl. 198-627.000.
- Automax Kabushiki-Kaisha: *See—*
  - Okumura, Katsuji, 4,674,048, Cl. 364-424.000.
- Automeg, Inc.: *See—*
  - Horvath, Joseph G.; and Miller, James C., 4,716,487, Cl. 361-42.000.
- Automobiles Citroen: *See—*
  - Duc, Michel; Montreuil, Philippe; and Meuleman, Jean-Jacques, 4,682,294, Cl. 364-492.000.
  - Gallot, Jean-Claude; Lauvin, Pierre; and Lombard, Roger, 4,671,222, Cl. 123-90.270.
  - Gillet, Guy, 4,637,741, Cl. 384-428.000.
  - Kerlidou, Michel, 4,651,396, Cl. 29-213.00R.
  - Lombard, Roger, 4,635,679, Cl. 137-601.000.
  - Miclot, Andre L., 4,684,158, Cl. 292-76.000.
  - Richard, Denis, 4,664,410, Cl. 280-714.000.
  - Schaller, Jean-Pierre, 4,652,192, Cl. 411-24.000.
  - Taunay, Claude, 4,679,841, Cl. 296-76.000.
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- Automobiles Dangel: *See—*
  - Dangel, Henry, 4,671,135, Cl. 74-694.000.
- Automobiles Peugeot: *See—*
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- Automobiles Peugeout: *See—*
  - Trapy, Jean, 4,703,740, Cl. 123-531.000.
- Automotive Collision Tools, Inc.: *See—*
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- Automotive Engine Associates: *See—*
  - Showalter, Merle R., 4,668,107, Cl. 384-114.000.
- Automotive Products Limited: *See—*
  - Hodkinson, Harold, 4,653,615, Cl. 188-79.50P.
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  - Ball, Robert J., 4,667,797, Cl. 192-98.000.
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  - Ball, Robert J.; and Winters, John J., 4,682,680, Cl. 192-98.000.
  - Bancroft, Roger N., 4,697,685, Cl. 192-109.00R.
  - Banks, John D., 4,702,361, Cl. 192-98.000.
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  - Barket, David C.; Wrobleski, David L.; Nix, Richard A.; and Leigh-Monstevens, Keith V., 4,665,802, Cl. 92-23.000.
  - Bass, Richard A., 4,635,442, Cl. 60-594.000.
  - Bass, Richard A., 4,645,041, Cl. 188-218.0XL.
  - Bass, Richard A., 4,662,482, Cl. 188-18.00A.
  - Caracini, Pietro; and Cucinotta, Luigi, 4,684,006, Cl. 192-106.200.
  - Crawford, Peter F.; and Trotman, Steven, 4,646,900, Cl. 192-107.00R.
  - Cucinotta, Luigi; and Caracini, Pietro, 4,662,497, Cl. 192-70.280.
  - Cucinotta, Luigi; and Di Benedetto, Orazio, 4,709,797, Cl. 192-106.200.
  - Leigh-Monstevens, Keith V., 4,640,478, Cl. 248-27.100.
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  - Leigh-Monstevens, Keith V.; Nix, Richard A.; and Patalidis, Claude A., deceased, 4,705,151, Cl. 192-111.00A.
  - Leigh-Monstevens, Keith V., 4,708,228, Cl. 192-85.0CA.
  - Leigh-Monstevens, Keith V.; and Mienko, David K., 4,712,640, Cl. 180-336.000.
  - Maycock, Ian C.; and Hodgson, Derek, 4,691,815, Cl. 192-98.000.
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  - Muller, Patrick, 4,646,898, Cl. 192-98.000.

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  - Parsons, David, 4,650,046, Cl. 192-3.00H.
  - Tobiasz, Andre , 4,702,529, Cl. 303-6.00C.
  - Trotman, Steven; and Maycock, Ian C., 4,676,357, Cl. 192-89.00B.
  - Ward, Christopher G., 4,687,086, Cl. 192-106.200.
  - Wimbush, Maurice J., 4,691,814, Cl. 192-91.00A.
  - Winters, John J., 4,646,897, Cl. 192-98.000.
  - Young, Alastair J., 4,660,441, Cl. 74-867.000.
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- Autosense Corporation: *See—*
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- Autosonik S.p.A.: *See—*
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- Autotec International, Inc.: *See—*
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- Autotrol Corporation: *See—*
  - Goudy, Paul R., Jr., 4,661,264, Cl. 210-748.000.
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  - Goudy, Paul R., Jr., 4,684,063, Cl. 239-2.100.
  - Goudy, Paul R., Jr., 4,684,254, Cl. 366-340.000.
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  - Goudy, Paul R., Jr.; Medhurst, James A.; and Dresselhuys, Donn R., 4,688,699, Cl. 222-56.000.
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  - Roos, William N., 4,716,325, Cl. 310-41.000.
  - Seal, J. David; and Franks, Jeffrey G., 4,668,386, Cl. 210-91.000.
- Autotype International Limited: *See—*
  - Hudson, Andrew; and Stansfield, Norman J., 4,636,438, Cl. 428-412.000.
- Autour, Jacques, legal representative: *See—*
  - Rambaud, Jean-Michel, deceased; and Autour, Jacques, legal representative, 4,655,985, Cl. 264-320.000.
- Autronica A/S: *See—*
  - Bekkadal, Fritz; and Schoug-Pettersen, Tor, 4,661,817, Cl. 342-124.000.
- Autry Industries, Inc.: *See—*
  - Autry, James C., 4,662,018, Cl. 12-142.0RS.
  - Autry, James C.; and Lin, Yung-Ho, 4,662,088, Cl. 36-105.000.
  - Autry, James C.; and Yung-Mai, Lin, 4,667,423, Cl. 36-102.000.
  - Autry, James C., 4,670,949, Cl. 24-140.000.
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- Autry, James C.; and Yung-Mai, Lin, to Autry Industries, Inc. Resilient composite midsole and method of making. 4,667,423, 5-26-87, Cl. 36-102.000.
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- Autry, Walter D., Jr.: *See—*
  - McCormick, Peter E.; Edwards, Rick C.; Autry, Walter D., Jr.; Culbertson, Timothy D.; Goch, Jerome F.; and Linder, Marc S., 4,676,142, Cl. 92-130.00R.
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- Auvil, Steven R.; and Agrawal, Rakesh, to Air Products and Chemicals, Inc. Liquefied gases using an air recycle liquefier. 4,715,873, 12-29-87, Cl. 62-13.000.
- Auvil, Steven R.: *See—*
  - Agrawal, Rakesh; and Auvil, Steven R., 4,705,548, Cl. 62-22.000.
  - Choe, Jung S.; Auvil, Steven R.; and Agrawal, Rakesh, 4,701,187, Cl. 55-16.000.
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- Auxier, Thomas A.; Anderson, Leon R.; and Hill, Edward C., Jr., to United Technologies Corporation. Coolant passages with full coverage film cooling slot. 4,664,597, 5-12-87, Cl. 416-97.00R.
- Auxier, Thomas A.; and Field, Robert E., to United Technologies Corporation. Film coolant passages for cast hollow airfoils. 4,676,719, 6-30-87, Cl. 416-97.00R.
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  - Epars, Michel, 4,700,096, Cl. 310-153.000.
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- Auyer, Walter L.: *See—*
  - Rhyner, Michael J.; and Auyer, Walter L., 4,656,541, Cl. 360-96.500.
- Auzolat, Jean P.; and Gagneux, Georges, to Equipements Automobiles Marchal. Brush holder mountable in recess of peripheral wall of electric machine. 4,677,333, 6-30-87, Cl. 310-239.000
- Av-Zuk, Joseph, to Alcol, Ltd. Access flooring system with increased load capacity. 4,685,258, 8-11-87, Cl. 52-126.600.
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  - Akkerman, Neil H.; and Hare, John P., 4,640,350, Cl. 166-117.500.
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- Avakian, Roger W.: *See—*
  - Allen, Richard B.; and Avakian, Roger W., 4,683,247, Cl. 521-91.000.
  - Gallucci, Robert R.; and Avakian, Roger W., 4,659,763, Cl. 524-358.000.
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- Avant Incorporated: *See—*
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- Avantek, Inc.: *See—*
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  - Kipnis, Issy, 4,688,005, Cl. 331-117.00R.
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  - Westgate, Wayne F., 4,691,380, Cl. 455-328.000.
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  - Haas, Peter; Freitag, Hans-Albrecht; Avar, Geza; Sommerfeld, Claus-Dieter; and Illger, Hans-Walter, 4,644,017, Cl. 521-129.000.
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- Avar, Lajos, to Sandoz Ltd. Tetraalkylpiperidines. 4,695,600, 9-22-87, Cl. 524-103.000.
- Avar, Lajos, to Sandoz Ltd. Stabilizing polymers. 4,716,187, 12-29-87, Cl. 524-99.000.
- Avati, Frank. Construction system. 4,653,652, 3-31-87, Cl. 211-189.000.
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  - Brockett, Walter D., 4,711,084, Cl. 60-39.070.
  - Dickey, Thomas A.; and Bodetka, George R., 4,712,372, Cl. 60-39.281.
  - Donovan, James G.; and Wittemen, Charles O., 4,633,920, Cl. 140-105.000.
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  - Henderson, David; and Ting, Chang-Sheng, 4,649,828, Cl. 102-476.000.
  - Jedrziewski, Stanley T., 4,643,148, Cl. 123-376.000.
  - Kane, Thomas A., 4,635,553, Cl. 102-384.000.
  - Libertini, Zoltan; Jen, Hsianmin; and Martinelli, James, 4,643,636, Cl. 415-138.000.
  - Miller, Jule A., 4,644,129, Cl. 219-121.0LC.
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  - Norris, Richard M.; and Diehl, Bert A., Jr., 4,704,145, Cl. 55-306.000.
  - Ogman, Abraham O., 4,702,960, Cl. 428-367.000.
  - Ossi, Ronald R., 4,651,521, Cl. 60-226.300.
  - Polastri, Robert S., 4,676,126, Cl. 81-176.300.
  - Rokni, Mordechai; and Flusberg, Allen M., 4,673,257, Cl. 350-354.000.
  - Sekelsky, Edward M., Jr., 4,669,161, Cl. 29-33.00P.
  - Sweet, Ervin J., 4,642,993, Cl. 60-752.000.
  - Tinti, Aldo A., 4,710,097, Cl. 415-138.000.
  - Waddington, Clive, 4,699,021, Cl. 74-687.000.
  - Walker, Kenneth E.; and Forte, Anthony V., Jr., 4,645,479, Cl. 51-328.000.
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- AVCO Synthetic Turf Production Distribution, Inc.: *See—*
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  - Bradley, William D.; Alvi, Zia R.; and Lacey, Raymond D., 4,701,993, Cl. 29-523.000.
  - Denham, Keith; and Archer, Stephen, 4,639,174, Cl. 411-34.000.
  - Frearson, William H., 4,648,258, Cl. 72-391.000.
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  - Jeal, Harvey P., 4,680,823, Cl. 10-86.00A.
  - Summerlin, Frederick A.; and McGauran, Hugh K., 4,653,969, Cl. 411-361.000.
- AVE S.p.A.: *See—*
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- Avedesian, Michael M., to Domtar Inc. Apparatus and method involving supercritical fluid extraction. 4,714,591, 12-22-87, Cl. 422-140.000.
- Avedissian, Michael K., to AT&T Technologies, Inc. Engaging second articles to engaged first articles. 4,634,043, 1-6-87, Cl. 228-180.200.
- Avedissian, Michael K.; and Hertzog, Earl D., to American Telephone and Telegraph Company; and AT&T Technologies, Inc. Registering articles to sites with recessed ultrasonic bonding tool head. 4,667,870, 5-26-87, Cl. 228-103.000.

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Averill, Robert G.; and Khowaylo, Alex, to Osteonics Corp. Dual-geometry acetabular cup component and method of implant. 4,704,127, 11-3-87, Cl. 623-22.000.
Averill, Robert G.; Khowaylo, Alex; and Sidebotham, Christopher G., to Osteonics Corp. Knee prosthesis with accommodation for angular misalignment. 4,714,472, 12-22-87, Cl. 623-20.000.
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Duran, John A., 4,655,657, Cl. 4[illegible]1-348.000.
Avicola, Kenneth, to Exxon Production Research Co. Multi-channel fiber optic sensor system. 4,649,529, 3-10-87, Cl. 367-149.000.
Avicom International, Inc.: *See—*
Westall, Michael J., 4,701,814, Cl. 360-72.300.
Avidan, Amos A.; Krambeck, Frederick J.; and Tabak, Samuel A., to Mobil Oil Corporation. Process for converting methanol to alkyl ethers, gasoline, distillate and alkylate liquid hydrocarbons. 4,684,757, 8-4-87, Cl. 585-331.000.
Avila, Gerardo; and Cerez, Pierre, to Compagnie d'Electronique et de Piezo-Electricite. Optical pumping cesium resonator and laser diode detection. 4,684,900, 8-4-87, Cl. 331-3.000.
Avila, Jose A.; and Odobasic, Steven L., to Odobasic, Steven L. Composite torsion link. 4,666,372, 5-19-87, Cl. 416-134.00A.
Avila, Louis J.; Merritt, John E.; and Hempling, Norman G., to Ford Aerospace & Communications Corporation. Frequency extended digitally generated FM. 4,706,047, 11-10-87, Cl. 332-19.000.
Aviles, Ernesto R., Jr., to Applinc. Catalytic heating system. 4,662,352, 5-5-87, Cl. 126-204.000.
Avionics Antenna Systems: *See—*
St. Clair, Gordon; and Alsenz, Evert C., 4,635,066, Cl. 343-705.000.
Avions Marcel Dassault-Breguet Aviation: *See—*
Jaquet, Herve, 4,656,483, Cl. 343-745.000.
Aviram, Ari; and Shih, Kwang K., to International Business Machines Corporation. Interface resistance and knee voltage enhancement in resistive ribbon printing. 4,692,044, 9-8-87, Cl. 400-241.100.
Avis, Graham M.: *See—*
Paneth, Eric; Handzel, Mark J.; Morley, Steven A.; and Avis, Graham M., 4,675,863, Cl. 370-50.000.
Avis Industrial Corporation: *See—*
Brown, Alex G., 4,635,454, Cl. 70-139.000.
Avishur, Mayroma: *See—*
Shapiro, Sanford S.; and Avishur, Mayroma, 4,643,453, Cl. 283-73.000.
Avison, Gerald; Teape, John W.; and Willer, Paul H. F., to Bowthorpe-Hellermann Limited. Automatic tie gun. 4,640,320, 2-3-87, Cl. 140-93.00A.
Avison, Malcolm J.; Hetherington, Hoby P.; Jue, Thomas H.; and Rothman, Douglas L., to Yale University. Apparatus and method for determining the presence of substances in a sample by NMR and producing an NMR image thereof. 4,678,995, 7-7-87, Cl. 324-309.000.
Avisse, Jean-Bernard, to Societe Anonyme: Societe Europeenne de Propulsion. Movable core transducer. 4,694,246, 9-15-87, Cl. 324-207.000.
Aviv, Gershon: *See—*
Linder, Charles; Aviv, Gershon; Perry, Mordechai; and Kotraro, Reuven, 4,690,765, Cl. 210-654.000.
Linder, Charles; Aviv, Gershon; Perry, Mordechai; and Kotraro, Reuven, 4,690,766, Cl. 210-654.000.
Perry, Mordechai; Kotraro, Reuven; Linder, Charles; and Aviv, Gershon, 4,659,474, Cl. 210-638.000.
AVL AG: *See—*
Marsoner, Hermann; Kroneis, Herbert; and Wolfbeis, Otto, 4,657,736, Cl. 422-56.000.
Marsoner, Hermann; Kirchmayer, Gerald; and List, Helmut, 4,704,893, Cl. 73-1.00G.
Marsoner, Hermann; and Kleinhappl, Erich, 4,705,667, Cl. 422-68.000.
Ritter, Christoph; Ghahramani, Massoud; and Marsoner, Hermann, 4,670,127, Cl. 204-418.000.
Wolfbeis, Otto S.; and Offenbacher, Helmut, 4,716,118, Cl. 436-2.000.
AVL Gesellschaft fur Verbrennungskraftmaschinen und Messtechnik m.b.H., Prof.Dr.Dr.h.c. Hans List: *See—*
Bilek, Andreas; and Wunsche, Peter, 4,694,786, Cl. 123-73.0AD.
Feichtinger, Gerhard, 4,651,689, Cl. 123-192.00B.
Krempl, Peter W.; Stubenberg, Johann; and Enko, Alfred, 4,667,127, Cl. 310-338.000.
Kroneis, Herbert; and Offenbacher, Helmut, 4,703,182, Cl. 250-458.100.
Mang, Hermenegild; and Engel, Gunter, 4,678,535, Cl. 156-623.00R.
Stubenberg, Johann; Denk, Heimo; and Zeiringer, Rudolf, 4,711,129, Cl. 73-708.000.
Werlberger, Peter; Killmann, Irolt; and Cartellieri, Wolfgang, 4,643,022, Cl. 73-117.300.
Wunsche, Peter, 4,643,135, Cl. 123-41.440.
AVM, Inc.: *See—*
Ludwig, George C., 4,635,908, Cl. 267-64.110.
Avni, Yoav; and Leshner, Ervin, to Action Manufacturing Company. Portable stretcher which is collapsible into a compact package. 4,670,921, 6-9-87, Cl. 5-82.00R.
Avni, Zion: *See—*
Stern, Geoffrey S.; Avni, Zion; Gonen, Amos; and Peleg, Amiram, 4,691,783, Cl. 169-61.000.
Avnon, Mordechi, to Sagiv Mashavei Sadeh. Connector assembly permitting quick attachment and detachment of fluid conduits. 4,662,396, 5-5-87, Cl. 137-616.700.
Avny, Eli, to Sundstrand Corporation. Apparatus for limiting differential rotation. 4,712,449, 12-15-87, Cl. 74-710.500.
Avny, Sam. Concealed mounted push bars and grills. 4,692,962, 9-15-87, Cl. 16-111.00R.
Avon Industrial Polymers Limited: *See—*
Angell, Cyril N. E., 4,709,696, Cl. 128-201.120.
Prentice, Mark E., 4,702,332, Cl. 180-127.000.
Turtle, Ivan R.; and Angell, Cyril N. E., 4,674,155, Cl. 24-170.000
West, John P., 4,657,232, Cl. 267-140.100.
West, John P., 4,690,389, Cl. 267-140.100.
Avondale Industries, Inc.: *See—*
Adams, Norman S.; and Molloy, Robert E., 4,688,488, Cl. 105-253.000.
Tack, Çarl E., Jr., 4,653,311, Cl. 72-443.000.
Wooley, William J., 4,674,784, Cl. 294-64.100.
Avondale Mills: *See—*
Lindsey, James N., 4,712,290, Cl. 28-178.000.
Avram, Elena: *See—*
Revici, Emanuel, 4,649,152, Cl. 514-425.000.
Revici, Emanuel, 4,663,165, Cl. 424-131.000.
Revici, Emanuel, 4,677,118, Cl. 514-499.000.
Revici, Emanuel, 4,695,583, Cl. 514-449.000.
Revici, Emanuel, 4,701,442, Cl. 514-21.000.
Avrameas, Eustrate: *See—*
Dodin, Andre ; Avrameas, Eustrate; Goud, Bruno; Guillou, Michel; and Nicolas, Renee , 4,677,055, Cl. 435-7.000.
Avrameas, Stratis: *See—*
Guesdon, Jean-Luc; and Avrameas, Stratis, 4,668,637, Cl. 436-504.000.
Avramova, Ruska S.: *See—*
Atanassova, Ivanka A.; Haimova, Marieta A.; Chavdarova, Veselina B; Nakov, Anton I.; Petkov, Nedelcho G.; and Avramova, Ruska S., 4,711,956, Cl. 540-327.000.
Avsharov, Eduard R.: *See—*
Alexandrov, Adolf M.; Vasiliev, Evgeny G.; Iskanderov, Alexandr A.; Magdenko, Vladimir S.; Melikov, Semen G.; Avsharov,

  - Eduard R.; Tsimbler, Jury A.; and Presnyakov, Vladimir I., 4,711,182, Cl. 104-283.000.
- AVT Anlagen- und Verfahrenstechnik GmbH: *See—*
  - Krambrock, Wolfgang, 4,715,748, Cl. 406-11.000.
- Avtaec Limited: *See—*
  - Rogers, Leonard M., 4,665,750, Cl. 73-587.000.
- Avtokombinat: *See—*
  - Gaydarov, Emanuil S.; Russev, Koytcho Y.; Paltchin, Vassil A.; and Stoilov, Ivan T., 4,698,462, Cl. 191-59.100.
- Avva, Radha K.: *See—*
  - Anderson, Thomas W.; Avva, Radha K.; Forrest, Bruce T.; Krawiec, Zbigniew A.; and Starrett, William R., 4,644,527, Cl. 370-58.000.
- AVX Corporation: *See—*
  - Chan, Ning-Huat, 4,680,670, Cl. 361-275.000.
  - Scrantom, Dehart G.; and Shealey, E. David, 4,670,977, Cl. 29-741.000.
- Avxentiev, Anatoly G.: *See—*
  - Shishov, Nikolai M.; Zelenetsky, Vladimir E.; Demina, Nadezhda A.; Bondarev, Ivan M.; Cherny, Alexandr N.; Avxentiev, Anatoly G.; and Rylov, Evgeny E., deceased, 4,645,487, Cl. 604-58.000.
- AWA Engineering Co., Ltd.: *See—*
  - Kubo, Toyohide, 4,685,187, Cl. 29-434.000.
  - Kubo, Toyohide, 4,704,181, Cl. 156-423.000.
- Awaga, Makoto: *See—*
  - Fujisaku, Kiminori; Awaga, Makoto; and Mori, Shosuke, 4,684,935, Cl. 340-717.000.
- Awaji, Hidekazu, to Sharp Kabushiki Kaisha. Solid state relay. 4,658,145, 4-14-87, Cl. 250-551.000.
- Awaji, Toshio: *See—*
  - Suzuki, Akimitsu; Awaji, Toshio; and Igari, Kozaburo, 4,690,257, Cl. 192-3.310.
- Awamura Metal Industry Co., Ltd.: *See—*
  - Yasuoka, Junichi; Kamiyama, Sumio; Ashida, Kiyomi; and Hata, Ryozo, 4,678,511, Cl. 75-251.000.
- Awane, Misao; Hara, Seiji; and Kobayashi, Satoshi, to Sanyo Electric Co., Ltd. Vending machine with a common display. 4,706,794, 11-17-87, Cl. 194-217.000.
- Awano, Mitsuru: *See—*
  - Minami, Kazuo; and Awano, Mitsuru, 4,642,571, Cl. 328-59.000.
- Awano, Toshimi: *See—*
  - Hayashi, Keijiro; Shinya, Kenzo; Awano, Toshimi; and Asai, Shigeru, 4,697,821, Cl. 280-609.000.
  - Hayashi, Keijiro; and Awano, Toshimi, 4,711,462, Cl. 280-610.000.
- Awano, Yoshiro; Suzuki, Hiroshi; Mizuno, Takaji; Ueguri, Shigeo; and Higashida, Kenji, to Mitsubishi Denki Kabushiki Kaisha; and Toyota Jidosha K.K. Pulse arc welding machine disabled during short-circuits. 4,697,062, 9-29-87, Cl. 219-130.510.
- Awano, Yoshiyuki, to Du Pont de Nemours, E. I., and Company. Electrical connecting terminal for a connector. 4,708,416, 11-24-87, Cl. 439-851.000.
- Awano, Yoshiyuki; and Narita, Hiroshi, to Du Pont de Nemours, E. I., and Company. Connector unit. 4,713,020, 12-15-87, Cl. 439-267.000.
- Awashima, Masaru: *See—*
  - Kaieda, Osamu; Awashima, Masaru; Okitaka, Isao; and Nakamura, Toshiaki, 4,684,734, Cl. 546-345.000.
  - Kaieda, Osamu; Hirota, Koichi; Itoh, Hideki; Awashima, Masaru; and Nakamura, Toshiaki, 4,689,179, Cl. 260-384.000.
- Awata, Hiroshi: *See—*
  - Kurihara, Susumu; Seki, Tadashi; Awata, Hiroshi; and Kadowaki, Hitoshi, 4,636,374, Cl. 423-385.000.
- Awata, Yutaka: *See—*
  - Fukuda, Misao; Tsuda, Toshitaka; Murano, Kazuo; and Awata, Yutaka, 4,679,188, Cl. 370-29.000.
- Awaya, Nobuyoshi: *See—*
  - Sakuma, Kazuhito; Arita, Yoshinobu; Sato, Masaaki; and Awaya, Nobuyoshi, 4,660,068, Cl. 357-49.000.
- Awaya, Takao: *See—*
  - Yano, Kazuhiko; Ohtsuki, Kazuhiko; Awaya, Takao; and Yoshii, Gen, 4,643,687, Cl. 440-75.000.
- Awdhan, Deo P., to Reeves Brothers, Inc. Method of making foam mattress. 4,673,452, 6-16-87, Cl. 156-254.000.
- Awe, Russell C.: *See—*
  - Logic, Jeffrey A.; Awe, Russell C.; Costello, Norman F.; and Saperstein, Zalman P., 4,651,815, Cl. 165-76.000.
  - Saperstein, Z. Philip; Arneson, Dean A.; Larrabee, Scott R.; Logic, Jeffrey A.; Costello, Norman F.; and Awe, Russell C., 4,688,311, Cl. 29-157.30R.
- AWFI Arbeitswissenschaffliches Forschungsinstitut GmbH: *See—*
  - Castagna, Wolfgang; Krankenhagen, Jochen; Ortwein, Heinz; and Weertz, Klaus, 4,690,081, Cl. 112-276.000.
- Awnings Unlimited, Inc.: *See—*
  - Martensson, Olof, IV, 4,641,805, Cl. 248-273.000.
- Awtrey, James D.: *See—*
  - Nelson, Robert G.; and Awtrey, James D., 4,683,457, Cl. 340-347.0AD.
- Ax, Roy L., to Wisconsin Alumni Research Foundation. Method for predicting the fertility of male mammals. 4,683,213, 7-28-87, Cl. 436-501.000.
- Axegård, Peter A.: *See—*
  - Holmstrom, Ulla-Kari M.; Sandgren, Lage M.; Norell, Maria G.; and Axegård, Peter A., 4,678,654, Cl. 423-478.000.
- Axel, Richard; Wigler, Michael H.; and Silverstein, Saul J., to Columbia University in the City of New York, The Trustees of. Processes for inserting DNA into eucaryotic cells and for producing proteinaceous materials. 4,634,665, 1-6-87, Cl. 435-68.000.
- Axelby, George S.; Geldiay, Vedat; and Moulds, Clinton W., III, to Westinghouse Electric Corp. Predictive model reference adaptive controller. 4,663,703, 5-5-87, Cl. 364-149.000.
- Axelby, George S.: *See—*
  - Moulds, Clinton W., III; and Axelby, George S., 4,634,946, Cl. 318-561.000.
- Axelgaard, Jens; and Grussing, Theodore, to Axelgaard, Jens. Electrical stimulation electrode. 4,708,149, 11-24-87, Cl. 128-798.000.
- Axell, Claes E. S., to Telefonaktiebolaget LM Ericsson. Sampling circuit for microwave signals. 4,672,341, 6-9-87, Cl. 333-247.000.
- Axell, Claes E. S., to Telefonaktiebolaget LM Ericsson. Coaxial plug for use in a junction between a coaxial conductor and a stripline. 4,715,821, 12-29-87, Cl. 439-59.000.
- Axelrod, Herbert R. Chewing toy for dogs and preparation thereof. 4,674,444, 6-23-87, Cl. 119-29.500.
- Axelrod, Joan C.; and Chibnik, Sheldon, to Mobil Oil Corporation. Cold flow improving additive compound and fuel composition containing same. 4,639,256, 1-27-87, Cl. 44-71.000.
- Axelrod, Joan C.; and Chibnik, Sheldon, to Mobil Oil Corporation. Cold flow improving fuel additive compound and fuel composition containing same. 4,657,562, 4-14-87, Cl. 44-71.000.
- Axelrod, Randolph H.: *See—*
  - Piascinski, Joseph J.; and Axelrod, Randolph H., 4,656,522, Cl. 358-247.000.
- Axelrod, Robert J.; and Cooper, Glenn D., deceased (Cooper, executrix; by Rose H.), to General Electric Company. Flame resistant alkenyl aromatic compounds and polymers containing chemically bonded phosphorus and blends with polyphenylene ether. 4,680,342, 7-14-87, Cl. 525-132.000.
- Axelson, Claes J. H., to AB Electrolux. Method of controlling the heating of an aqueous load in a cooking utensil. 4,668,856, 5-26-87, Cl. 219-497.000.
- Axelson, Claes J. H., to AB Electrolux. Arrangement in a cooking plate or hob having a temperature sensor. 4,710,611, 12-1-87, Cl. 219-450.000.
- Axelson, Gunnar, to AB Sodertalje Snickeri-och Karosserifabrik. Loading platform construction. 4,671,561, 6-9-87, Cl. 296-181.000.
- Axelson, Inc.: *See—*
  - Bruton, Billy R., 4,671,312, Cl. 137-315.000.
- Axelsson, Bengt I.; Brattsand, Ralph L.; Dahlback, Carl M. O.; Kallstrom, Leif A.; and Trofast, Jan W., to Aktiebolaget Draco. Liposomes containing steroid esters. 4,693,999, 9-15-87, Cl. 514-174.000.
- Axen, Rolf E.; Carlsson, Jan P.; and Drevin, Hakan N., to Pharmacia AB. Method for splitting di-sulphide bonds and a compound obtained thereby. 4,647,655, 3-3-87, Cl. 530-390.000.
- Axen, Rolf E.; Kaj, Goran L.; and Bjorkman, Rune, to Pharmacia AB. Method and device for biospecific affinity reactions. 4,708,932, 11-24-87, Cl. 435-7.000.
- Axen, Rolf E. A. V.; and Carlsson, Jan P. E., to Pharmacia AB. Therapeutically active compound and pharmaceutical composition containing the same. 4,711,951, 12-8-87, Cl. 530-323.000.
- Axen, Steven G.: *See—*
  - Huff, Ray V.; Axen, Steven G.; and Baughman, David R., 4,634,187, Cl. 299-4.000.
- Axford, Robin; and Young, John R., to Bondax Carpets Limited. Method for cutting carpet. 4,656,901, 4-14-87, Cl. 83-55.000.
- Axford, Walter J.; Trumble, Francis R.; and Turner, Charles W., to EMI Limited. Helical antenna array with resonant cavity and impedance matching means. 4,680,591, 7-14-87, Cl. 343-853.000.
- Axhamre International AB: *See—*
  - Granlund, Ingvar, 4,648,574, Cl. 248-349.000.
- Axia Incorporated: *See—*
  - Hiltner, Andrew J., 4,708,070, Cl. 112-10.000.
  - Reed, Larry T., 4,695,161, Cl. 356-254.000.
- Axinti, Gavril; Arama, Stefanica; Draghici, Ionel; Bratu, Polidor; Stanciu, Corneliu; Ghinea, Aurelian; Badulescu, Florin; and Diaconu, Cristian, to Intreprinderea de Utilaj Greu "Progresul". Method of and apparatus for controlling pulse hydraulic generators. 4,688,468, 8-25-87, Cl. 91-317.000.
- Axis S.p.A.: *See—*
  - Domenichini, Carlo; and Gastaldin, Gaetano, 4,651,086, Cl. 324-64.000.
  - Santandrea, Luciano; and Luciani, Sabatino, 4,713,883, Cl. 29-736.000.
- Axiuk, Oleg: *See—*
  - Baxter, Gordon D.; and Axiuk, Oleg, 4,659,424, Cl. 156-51.000.
  - Walling, Jorg-Hein; Cornibert, Jacques; Baxter, Gordon D.; Bottin, Marie-Francoise; Axiuk, Oleg; and Reed, Phillip J., 4,710,594, Cl. 174-120.0SR.
- Axler-Blin, Claudine: *See—*
  - Montagnier, Luc; Chermann, Jean-Claude; Barre-Sinoussi, Francoise; Brun-Vezinet, Francoise; Rouzioux, Christine; Rozenbaum, Willy; Dauguet, Charles; Gruest, Jacqueline; Nugeyre, Marie-Therese; Rey, Francoise; Axler-Blin, Claudine; Chamaret, Solange; Gallo, Robert C.; Popovic, Mikulas; and Sarngadharan, Mangalasseril G., 4,708,818, Cl. 435-5.000.
- Axlon, Inc.: *See—*
  - Milner, Ronald E., 4,687,457, Cl. 446-175.000.
- Axt, Egon: *See—*
  - Graef, Kurt; Axt, Egon; Wirtz, Hans-Peter; Lauscher, Friedrich; Potzsch, Werner; Korfer, Peter; Sastrarahardja, Paulus; Croonen, Werner; and Serf, Josef, 4,649,763, Cl. 74-763.000.
- Axytel: *See—*
  - Levavasseur, Jean R., 4,712,489, Cl. 109-25.000.

Ayabe, Yasuhiro, to Victor Company of Japan, Ltd. Method of manufacturing a composite type magnetic head. 4,682,256, 7-21-87, Cl. 360-119.000.

Ayabe, Youzou; and Sugiyama, Shigeru. Containers for beverages. 4,712,702, 12-15-87, Cl. 220-90.200.

Ayala, Albert. Metal channel apparatus and method for forming a stairway. 4,635,416, 1-13-87, Cl. 52-188.000.

Ayala, Henry. Reinforcing bar support clip. 4,640,063, 2-3-87, Cl. 52-127.300.

Ayala-Ortiz, Ignacio L., to Vitro Tec Fideicomiso. Electronic system for automatically controlling the weight of glass gobs in a molten glass feeder. 4,682,998, 7-28-87, Cl. 65-164.000.

Ayano, Mitsutoshi: *See—*
- Kawami, Shigeru; Tabu, Takashi; Ayano, Mitsutoshi; Shibuya, Kiyoshi; and Itoh, Shin-ichi, 4,677,669, Cl. 379-413.000.

Ayata, Kenzo; Narita, Kiichi; Mori, Takasuke; and Fujimoto, Takahiko, to Kabushiki Kaisha Kobe Seiko Sho. Method for the continuous production of cast steel strands. 4,637,453, 1-20-87, Cl. 164-468.000.

Ayata, Kenzo; Narita, Kiichi; Mori, Takasuke; and Fujimoto, Takahiko, to Kabushiki Kaisha Kobe Seiko Sho. Method for the continuous production of cast steel strands. 4,671,335, 6-9-87, Cl. 164-468.000.

Ayata, Naoki, to Canon Kabushiki Kaisha. Object position detecting apparatus using accumulation type sensor. 4,634,876, 1-6-87, Cl. 250-548.000.

Ayata, Naoki, to Canon Kabushiki Kaisha. Measurement method and apparatus for alignment. 4,641,257, 2-3-87, Cl. 364-559.000.

Ayata, Naoki; and Yamada, Yasuyoshi, to Canon Kabushiki Kaisha. Mask aligner having a photo-mask setting device. 4,655,599, 4-7-87, Cl. 356-401.000.

Ayata, Naoki; and Matsumura, Takashi, to Canon Kabushiki Kaisha. Position detecting device utilizing selective outputs of the photodetector for accurate alignment. 4,663,534, 5-5-87, Cl. 250-548.000.

Ayata, Naoki; Saito, Seiji; Suzuki, Hidetoshi; Ozawa, Kunitaka; and Koumura, Noboru, to Canon Kabushiki Kaisha. Image recording apparatus. 4,707,713, 11-17-87, Cl. 346-140.00R.

Ayata, Naoki, to Canon Kabushiki Kaisha. Alignment apparatus. 4,713,784, 12-15-87, Cl. 364-559.000.

Ayata, Naoki: *See—*
- Hamazaki, Bunei; and Ayata, Naoki, 4,688,088, Cl. 358-101.000.
- Ozawa, Kunitaka; Ayata, Naoki; Suzuki, Hidetoshi; Saito, Seiji; and Koumura, Noboru, 4,694,502, Cl. 382-17.000.
- Tazawa, Shigemoto; and Ayata, Naoki, 4,641,071, Cl. 318-640.000.
- Uda, Koji; Oda, Kazuyuki; and Ayata, Naoki, 4,669,867, Cl. 355-53.000.

Aycock, David F.; and Ting, Sai-Pei, to General Electric Company. Acyl modified polyphenylene ether composition. 4,642,358, 2-10-87, Cl. 549-245.000.

Ayedi, Hassine: *See—*
- Bonel, Gilbert; Heughebaert, Jean C.; Chaabouni, Mohamed; and Ayedi, Hassine, 4,692,323, Cl. 423-321.00R.

Ayen, Richard J.; Burk, Johst H.; and Greco, Carl C., to Stauffer Chemical Company. Preparation of insoluble metal alkoxides. 4,681,959, 7-21-87, Cl. 556-54.000.

Ayer, Atul D., to ALZA Corporation. Osmotic device with inert core. 4,693,886, 9-15-87, Cl. 424-15.000.

Ayerbe, Andre : *See—*
- Giddey, Claude; Ayerbe, Andre ; and van Schouwenburg, Aaltje, 4,671,966, Cl. 426-589.000.

Ayers, David B. Manipulative amusement device. 4,708,345, 11-24-87, Cl. 273-153.00S.

Ayers, David T.: *See—*
- Every, Peter; Fuller, Edward N.; and Ayers, David T., 4,668,023, Cl. 303-100.000.

Ayers, Harold J.; and Chan, Ting Y., to Texaco Inc. Support assembly for regenerator air distributor in a fluid catalytic cracking unit. 4,647,434, 3-3-87, Cl. 422-144.000.

Ayers, Ray R., to Shell Oil Company. Seismic array positioning. 4,709,356, 11-24-87, Cl. 367-19.000.

Ayers, Ray R.: *See—*
- Simpson, Wayne F.; Ayers, Ray R.; and Patterson, Robert W., 4,640,645, Cl. 405-63.000.

Ayers, Robert C. Wheelchair with rocking seat assembly. 4,641,848, 2-10-87, Cl. 280-242.0WC.

Ayers, Sammy L., Jr.: *See—*
- Pasinski, Ralph R.; Ayers, Sammy L., Jr.; and Kocmond, Warren C., Jr., 4,707,855, Cl. 379-376.000.

Ayers, William M.; and Basak, Jayanta K., to Halliburton Company. Skimming and utility vessel that effects surface sea control. 4,653,421, 3-31-87, Cl. 114-270.000.

Ayerst, McKenna & Harrison, Inc.: *See—*
- Sestanj, Kazimir; Abraham, Nedumparambil A.; Bellini, Francesco; and Treasurywala, Adi, 4,705,882, Cl. 560-10.000.

Aylett, Martin R.: *See—*
- Haigh, John; and Aylett, Martin R., 4,705,593, Cl. 156-635.000.

Aylies, Sargeant E.: *See—*
- Brown, Robert L.; and Aylies, Sargeant E., 4,648,935, Cl. 156-577.000.

Ayliffe, Peter J., to International Standard Electric Corporation. Method of addressing liquid crystal displays. 4,638,310, 1-20-87, Cl. 340-805.000.

Ayliffe, Peter J., to STC plc. Addressing smectic displays. 4,703,305, 10-27-87, Cl. 340-784.000.

Ayliffe, Peter J.; and Davey, Anthony B., to STC PLC. Addressing liquid crystal cells using unipolar strobe pulses. 4,705,345, 11-10-87, Cl. 350-350.00S.

Ayliffe, Peter J.: *See—*
- Crossland, William A.; and Ayliffe, Peter J., 4,655,550, Cl. 350-332.000.

Aylor, John E.; and Villarreal, Jose A., to Graphic Specialties, Inc. Dampening apparatus for printing press. 4,676,156, 6-30-87, Cl. 101-148.000.

Aylward, David E., to Cities Service Oil & Gas Corp. Process for polymerizing a monomer. 4,665,141, 5-12-87, Cl. 526-86.000.

Aylward, David E.: *See—*
- Roling, Paul V.; Veazey, Richard L.; and Aylward, David E., 4,665,138, Cl. 526-86.000.

Ayoub, Joseph; and Bourdet, Dominique, to Schlumberger Technology Corporation. Hydrocarbon well test method. 4,677,849, 7-7-87, Cl. 73-155.000.

Ayoub, Nabeel H., to Sowell, John B. Contraceptive composition for external application. 4,689,230, 8-25-87, Cl. 424-195.100.

Ayoul, Philippe, to S.E.M.T., S.A. Structurally lightened piston utilizable especially in an internal combustion engine. 4,662,319, 5-5-87, Cl. 123-41.350.

Ayr Pty. Ltd.: *See—*
- Goodard, Earl F., 4,666,122, Cl. 248-666.000.

Ayre, Fred P., Jr. Bowling alley. 4,664,377, 5-12-87, Cl. 273-51.000.

Ayres, Calvin L.; and Rowles, Howard C., to Air Products and Chemicals, Inc. Staged multicomponent refrigerant cycle for a process for recovery of C_{3+} hydrocarbons. 4,707,170, 11-17-87, Cl. 62-24.000.

Ayres, Walter D., Jr., to Surgeaco, Incorporated. Control valve with split disc. 4,658,857, 4-21-87, Cl. 137-601.000.

Ayres, Walter D., Jr., to Surgeaco, Inc. Removable in-line self-cleaning strainer for piping systems. 4,678,589, 7-7-87, Cl. 210-797.000.

Ayukawa, Nobuhiro; and Konishi, Yasuhiko, to Nippon Dacro Shamrock Co., Ltd. Process for treating metal surface. 4,675,054, 6-23-87, Cl. 148-6.200.

Ayukawa, Nobuhiro; and Konishi, Yasuhiko, to Nippon Dacro Shamrock Co., Ltd. Non-aqueous degreasing and chromating solution for metal treatment. 4,678,518, 7-7-87, Cl. 148-6.200.

Ayusawa, Kazutoshi: *See—*
- Sato, Hosaku; Ayusawa, Kazutoshi; Saito, Minoru; and Nakayama, Matsue, 4,699,891, Cl. 501-139.000.

Azad, Hamid R.: *See—*
- Kado, Clarence I.; Schnathorst, William C.; and Azad, Hamid R., 4,663,162, Cl. 424-92.000.

Azami, Katsumasa: *See—*
- Fukai, Isamu; and Azami, Katsumasa, 4,693,674, Cl. 417-269.000.

Azar, Patricia A. Bracelet construction having replaceable ornaments. 4,674,299, 6-23-87, Cl. 63-7.000.

Azaret, Juan O.: *See—*
- Angell, Eric H.; Aprille, Thomas J.; Azaret, Juan O.; Fang, Rong-Chin; Lee, Byeong G.; Longwell, Brian C.; Sharper, Craig A.; and Spalink, Jan-Dieter, 4,716,561, Cl. 370-55.000.

Azaz, Emma: *See—*
- Segal, Ruth; Pisanty, Sara; and Azaz, Emma, 4,678,772, Cl. 514-25.000.

Azdel, Inc.: *See—*
- Neubauer, Jeffrey A.; Reese, Walter J.; and Spencer, Dennis O., 4,692,375, Cl. 428-299.000.

Azegami, Hitoshi: *See—*
- Kajimoto, Norifumi; and Azegami, Hitoshi, 4,643,934, Cl. 428-141.000.

Azegami, Osamu; and Miyake, Toshifumi, to Kabushiki Kaisha Ishida Koki Seisakusho; and Yac Co., Limited. Method and apparatus for sorting articles. 4,693,378, 9-15-87, Cl. 209-586.000.

Azegami, Tadashi: *See—*
- Hirata, Terutaka; Azegami, Tadashi; Kimura, Atsushi; and Katayama, Megumi, 4,683,754, Cl. 73-708.000.

Azemard, Isabelle: *See—*
- Virieux, Philippe; and Azemard, Isabelle, 4,634,967, Cl. 324-83.00D.

Aziasekiyu Kabushiki Kaisha: *See—*
- Matsumura, Tetsuo; Ohzawa, Toshio; Kawashima, Akihiro; Ohkuma, Osamu; Sawada, Saburo; Yanai, Shun'ichi; Yoshimura, Hiroshi; and Sugino, Yasuo, 4,714,543, Cl. 208-412.000.

Azimi, Hossein. Modular block and modular structural elements constructed therefrom. 4,694,629, 9-22-87, Cl. 52-611.000.

Azionaria Costruzioni Macchine Automatiche, A.C.M.A., S.p.A.: *See—*
- Aiuola, Franco; and Nannini, Luciano, 4,650,450, Cl. 493-179.000.
- Aiuola, Franco; and Nannini, Luciano, 4,669,249, Cl. 53-234.000.
- Aiuola, Franco; and Nipoti, Paolo, 4,676,286, Cl. 141-145.000.
- Odorici, Franco, 4,708,568, Cl. 414-330.000.
- Zanardi, Giancarlo, 4,662,504, Cl. 198-429.000.

Azionaria Costruzioni Machine Automatiche A.C.M.A. S.p.A.: *See—*
- Nipoti, Paolo; and Priori, Franco, 4,651,864, Cl. 198-397.000.

Aznavorian, Arachin. Process and plant for continuous drying using heat pumps. 4,646,447, 3-3-87, Cl. 34-31.000.

Azon Corporation: *See—*
- Ziegler, Ferdinand, 4,660,875, Cl. 294-26.000.

Azuchi, Yukihiro, to Murata Manufacturing Co., Ltd. Rotary electric devices. 4,649,459, 3-10-87, Cl. 361-293.000.

Azuchi, Yukihiro, to Murata Manufacturing Co., Ltd. Method of forming cover sheet in opening of rotary electric device. 4,657,719, 4-14-87, Cl. 264-153.000.

Azuhata, Shigeru: *See—*
- Sohma, Ken-ichi; Arashi, Norio; Azuhata, Shigeru; Narato, Kiyoshi; Inada, Tooru; Kobayashi, Hironobu; Ohtsuka, Keizou; and Hishinuma, Yukio, 4,653,998, Cl. 431-79.000.

- Azukizawa, Teruo: *See—*
  - Morishita, Mimpei; and Azukizawa, Teruo, 4,690,066, Cl. 104-282.000.
- Azuma, Hidekazu; Yoshinaka, Ryozi; Tsuruhashi, Takayuki; Hokao, Katsuiku; Watanabe, Kazuki; Ogo, Kazutaka, Suzuki, Takatoshi; and Hayashi, Masahiro, to Toyota Jidosha Kabushiki Kaisha; and Kabushiki Kaisha Toyota Chuo Kenkyusho. Method and apparatus for discriminating cutting state from non-cutting state in machine tool. 4,656,868, 4-14-87, Cl. 73-587.000.
- Azuma, Kishiro: *See—*
  - Niizuma, Hiroshi; Miki, Toshiro; Kojima, Shiro; Azuma, Kishiro; Kato, Hiroyuki; Murakami, Yuichi; and Ito, Tsutomu, 4,677,225, Cl. 562-599.000.
- Azuma, Kunihiro: *See—*
  - Iida, Hiroshi; Azuma, Kunihiro; and Hayashi, Masahiko, 4,656,241, Cl. 528-279.000.
- Azuma, Masaaki: *See—*
  - Uchino, Hayashi; Azuma, Masaaki; Ohashi, Takehisa; and Watanabe, Kiyoshi, 4,649,197, Cl. 544-258.000.
- Azuma, Miyuki: *See—*
  - Asada, Masahiro; and Azuma, Miyuki. 4,680,381, Cl. 528-501.000.
- Azuma, Shizuo; Hiramatsu, Toshiyuki; Nakagawa, Koji; and Ichikawa, Yataro, to Teijin Limited. Benzoylaminoalkylenephosphonic acids or esters thereof, herbicidal compositions containing same and their herbicidal use. 4,685,952, 8-11-87, Cl. 71-86.000.
- Azuma, Toshiro: *See—*
  - Yamaoka, Kojiro; Azuma, Toshiro; Sakikawa, Shigenori; Shibata, Jiro; and Odagaki, Atsushi, 4,664,210, Cl. 180-132.000.
- Azur Fragrances France S.A.: *See—*
  - Freytag Von Loringhoven, Andreas E. T. W., 4,708,851, Cl. 422-123.000.
- Azuray Inc.: *See—*
  - Lau, Robert S.; Murphy, Roy E.; and Quick, Robert G., Jr., 4,695,772, Cl. 315-370.000.
- Azygous: *See—*
  - Houghtaling, Steven W., 4,706,226, Cl. 367-66.000.
- Azzam, Rasheed M. A., to Research Corporation. Photodetector arrangement for measuring the state of polarization of light. 4,681,450, 7-21-87, Cl. 356-367.000.
- Azzara, Frank. Strap to cover ignition lock cylinder. 4,665,728, 5-19-87, Cl. 70-427.000.
- Azzarello, Joseph A., to J. I. Case Company. Roll-over protection device. 4,666,183, 5-19-87, Cl. 280-756.000.
- Azzato, Robert N., to General Binding Corporation. Book hanger hardware. 4,652,013, 3-24-87, Cl. 281-46.000.
- Azzi, Victor D., to Kingston-Warren Corporation, The. Storage rack system. 4,708,252, 11-24-87, Cl. 211-192.000.
- Azzopardi, Michael J.: *See—*
  - Moore, Robert W.; and Azzopardi, Michael J., 4,640,657, Cl. 414-347.000.
- A2F: *See—*
  - Faisandier, Yves, 4,695,955, Cl. 364-413.000.
- B.A.T. Cigarettenfabriken GmbH: *See—*
  - Junemann, Gitta; Hirsch, Werner; and Weiss, Arno, 4,709,709, Cl. 131-306.000.
  - Schmekel, Gerald; and Rudolph, Gert, 4,641,667, Cl. 131-352.000.
- B-Art S.a.s.: *See—*
  - Biagini, Livio, 4,672,931, Cl. 123-193.00P.
- B & B Chlorination: *See—*
  - Behrens, Kelly D., 4,694,900, Cl. 166-75.100.
- B & B Tools: *See—*
  - Backer, Robert, 4,706,668, Cl. 128-325.000.
- B. Bacher GmbH: *See—*
  - Weag, Ernst, 4,664,510, Cl. 355-86.000.
- B-Bar-B, Inc.: *See—*
  - Holland, Willard D., 4,648,233, Cl. 53-55.000.
- B.C. Clean Wood Preservers Ltd.: *See—*
  - Silcox, Ronald W., 4,706,722, Cl. 144-329.000.
- B.C. Research Council: *See—*
  - Oehr, Klaus H., 4,683,038, Cl. 204-93.000.
- B.C.S.I. Laboratories, Inc.: *See—*
  - Sagi, Zsigmond L., 4,651,749, Cl. 128-736.000.
- B.C.S. S.p.A.: *See—*
  - Bernardi, Guido, 4,715,238, Cl. 74-6.000.
- B & D Autolines AB: *See—*
  - Karlsson, Gosta, 4,693,154, Cl. 83-161.000.
- B. D. Wait Co. Limited: *See—*
  - Shepherd, Charles G.; and Travale, Samuel, 4,691,689, Cl. 126-295.000.
  - Shepherd, Charles G.; and Travale, Samuel, 4,708,830, Cl. 261-70.000.
- B. F. Goodrich Company, The: *See—*
  - Abdenour, Stephen F.; and Polatas, Stephen M., 4,690,352, Cl. 249-49.000.
  - Ahmad, Shamim; Kraus, Larry A.; and Staab, Paul C., 4,644,988, Cl. 152-209.00R.
  - Ahmad, Shamim; Lee, Zion S.; and Katrenick, Stephen E., 4,703,079, Cl. 524-495.000.
  - Amjad, Zahid, 4,652,377, Cl. 210-699.000.
  - Amjad, Zahid; and Masler, William F., III, 4,707,271, Cl. 210-701.000.
  - Barnhouse, James P., 4,645,801, Cl. 525-404.000.
  - Benedikt, George M.; and Barnes, Dennis A., 4,680,380, Cl. 528-485.000.
  - Cohen, Louis, 4,696,983, Cl. 526-62.000.
  - Cowfer, Joseph A.; and Best, James E., 4,642,400, Cl. 570-238.000.
  - Dinbergs, Kornelius, 4,663,356, Cl. 521-56.000.
  - Edwards, Walter A.; and Huddleston, George R., Jr., 4,693,800, Cl. 204-180.100.
  - Eroskey, Richard E.; and Miller, Larry G., 4,678,530, Cl. 156-245.000.
  - Gardner, Keith L., 4,659,791, Cl. 526-62.000.
  - Hall, Dale R.; Jackson, Robert L.; and Purks, Charles V., 4,670,483, Cl. 523-179.000.
  - Hawrylko, Roman B., 4,668,707, Cl. 521-56.000.
  - Hawrylko, Roman B., 4,684,668, Cl. 521-56.000.
  - Hawrylko, Roman B., 4,711,908, Cl. 521-56.000.
  - Hillstrom, David U.; and Cope, Dennis R., 4,714,220, Cl. 248-160.000.
  - Hodge, Ian M., 4,642,331, Cl. 528-492.000.
  - Houck, Robert J.; and Klein, Richard G., 4,646,912, Cl. 198-810.000.
  - Huddleston, George R., Jr.; and Edwards, Walter A., 4,671,860, Cl. 204-182.300.
  - Jacobs, Howard L., 4,653,633, Cl. 198-810.000.
  - Kageorge, Pedro W., 4,687,159, Cl. 244-134.00A.
  - Kim, Heung-Tai, 4,712,992, Cl. 425-207.000.
  - Kolycheck, Edmond G.; and Ondercin, Lawrence, 4,643,949, Cl. 428-425.900.
  - Kramer, James H., 4,663,810, Cl. 29-149.50S.
  - Kramer, James H., 4,677,721, Cl. 29-149.50S.
  - Kramer, James H., 4,679,517, Cl. 114-45.000.
  - Kugelman, Michael M., 4,706,160, Cl. 361-100.000.
  - Kugelman, Michael M., 4,713,719, Cl. 361-54.000.
  - Lai, John T.; and Son, Pyong N., 4,639,479, Cl. 524-100.000.
  - Lai, John T.; and Son, Pyong N., 4,698,446, Cl. 564-494.000.
  - Lai, John T., 4,711,957, Cl. 544-231.000.
  - Lee, Biing-lin, 4,680,343, Cl. 525-148.000.
  - Leenders, Hendrikus W.; and Bril, Derk A., 4,670,400, Cl. 436-34.000.
  - Lehr, Marvin H., 4,647,626, Cl. 525-238.000.
  - Lehr, Marvin H., 4,711,921, Cl. 524-180.000.
  - Lochhead, Robert Y.; George, Thomas R., Jr.; and Banks, William L., 4,668,731, Cl. 524-474.000.
  - Lochhead, Robert Y.; and Warfield, Debra S. S., 4,686,254, Cl. 524-99.000.
  - Masler, William F., III; and Amjad, Zahid, 4,639,490, Cl. 524-765.000.
  - Minchak, Robert J.; and Lane, Parley C., Jr., 4,701,510, Cl. 526-283.000.
  - Mollinger, Paul J.; and Kuo, Charles C., 4,670,181, Cl. 252-186.250.
  - Myers, Ronald E.; and Buhks, Ephraim, 4,680,236, Cl. 428-515.000.
  - Neuman, Richard C., 4,710,533, Cl. 524-394.000.
  - Parish, James M., 4,655,008, Cl. 52-2.000.
  - Percec, Virgil, 4,634,742, Cl. 525-390.000.
  - Percec, Virgil, 4,638,039, Cl. 525-534.000.
  - Percec, Virgil; Huvard, Gary S.; Ramp, Floyd L.; and Traynor, Lee, 4,663,402, Cl. 525-534.000.
  - Percec, Virgil, 4,665,137, Cl. 525-534.000.
  - Percec, Virgil, 4,701,514, Cl. 528-174.000.
  - Reynes, Enrique G.; and Leising, John O., 4,639,517, Cl. 544-85.000.
  - Schaffner, Donald R.; and Leeds, Donald H., 4,688,239, Cl. 378-141.000.
  - Shaw, Chong-Kuang, 4,704,219, Cl. 252-50.000.
  - Shumate, Charles H., 4,663,968, Cl. 73-178.00R.
  - Son, Pyong-Nae; and Lai, John T., 4,650,903, Cl. 564-153.000.
  - Son, Pyong-Nae; and Lai, John T., 4,675,353, Cl. 524-96.000.
  - Son, Pyong-Nae; and Jacobs, Charles P., 4,687,850, Cl. 544-384.000.
  - Son, Pyong-Nae; and Lai, John T., 4,692,487, Cl. 524-100.000.
  - Stevenson, Hildreth W., 4,714,637, Cl. 428-35.000.
  - Sullivan, F. Ryan; and Aleksa, David M., 4,715,989, Cl. 252-512.000.
  - Yu, Simon H., 4,680,358, Cl. 526-292.900.
- B & G Machinery Company: *See—*
  - Swiderski, Kevin J., 4,709,803, Cl. 198-468.200.
- B&G Plastics, Inc.: *See—*
  - Kolton, Chester; and Spater, Stuart S., 4,714,156, Cl. 206-296.000.
- B & H Manufacturing Company: *See—*
  - Hoffmann, Wolfgang, 4,641,558, Cl. 83-152.000.
- B. H. Tytewadd Marketing, Incorporated: *See—*
  - Talbot, Laurel C.; and Reed, Wilbur T., 4,649,457, Cl. 361-127.000.
- B. Hagemann & Co.: *See—*
  - Silbernagel, Peter, 4,711,069, Cl. 53-556.000.
- B.I. Incorporated: *See—*
  - Carroll, Gary T.; and Hunter, Robert D., 4,658,357, Cl. 364-406.000.
- B.I. Industries, Inc.: *See—*
  - Chiu, Kai F., 4,705,601, Cl. 162-348.000.
- B. J. Mountain, Inc.: *See—*
  - Bissett, Glenn, 4,703,531, Cl. 5-508.000.
- B & J Rocket Rasp A/S: *See—*
  - Holst, Svend; Jensen, Niels; and Jensen, Georg, 4,679,354, Cl. 51-76.00R.
- B-Line Systems, Inc.: *See—*
  - Kowalski, Joseph W., 4,634,327, Cl. 411-432.000.
- B.M.I. B.V.: *See—*
  - van Beek, Pieter E., 4,669,886, Cl. 366-18.000.
- B & R Plastics, Inc.: *See—*
  - Kulzer, Darrell A.; and Rohm, Martin L., 4,634,005, Cl. 206-477.000.

- B & U Corporation: *See—*
  - Kuehn, Udo, 4,659,391, Cl. 134-7.000.
- B.W.B. Controls, Inc.: *See—*
  - Bergeron, Ned, 4,688,754, Cl. 251-63.500.
  - Bergeron, Ned A., 4,660,600, Cl. 137-552.000.
- B/W Investments: *See—*
  - Weiner, Sheldon; Brook, Sherwin A.; and Freitag, Michael G., 4,677,653, Cl. 379-58.000.
- B & W Loudspeakers Limited: *See—*
  - Dickie, Laurence G., 4,690,244, Cl. 181-146.000.
- Baach, Michael K., to Corrpro Companies, Inc. Replaceable deep anode system. 4,710,644, 12-1-87, Cl. 307-95.000.
- Baarsch, Kurt: *See—*
  - Klauss, Heinrich; and Baarsch, Kurt, 4,673,538, Cl. 261-112.000.
- Baartman, John L., III: *See—*
  - Steck, Robert F.; and Baartman, John L., III, 4,637,199, Cl. 53-451.000.
- Baas Technik GmbH: *See—*
  - Arnemann, Gerhard, 4,643,295, Cl. 198-594.000.
- Baasner, Bernd; and Klauke, Erich, to Bayer Aktiengesellschaft. Process for the preparation of 5-fluorocytosine. 4,703,121, 10-27-87, Cl 544-317.000.
- Baasner, Bernd: *See—*
  - Klauke, Erich; Baasner, Bernd; and Schundehutte, Karl H., 4,716,229, Cl. 544-334.000.
- Baasner, Ernst; Lonne, Klaus; and Majewski, Klaus-Peter, to Goetze AG. Sealing ring for sealing an articulated connection. 4,659,091, 4-21-87, Cl. 277-1.000.
- Baatz, Henning; Rittscher, Dieter; and Engelage, Herbert, to GNS Gesellschaft fur Nuklear-Service mbH. Method of handling radioactive waste and especially radioactive or radioactively contaminated evaporator concentrates and water-containing solids. 4,675,129, 6-23-87, Cl. 252-633.000.
- Baatz, Wilfried, to Racer-Mate, Inc. Wind load simulator for bicycle. 4,674,742, 6-23-87, Cl. 272-73.000.
- Baatz, Wilfried; and Ahlquist, Norman C., to FloScan Instrument Company, Inc. Fuel economy indicator. 4,706,083, 11-10-87, Cl. 340-825.060.
- Baba, Fujio: *See—*
  - Takeuchi, Kunihiko; Baba, Fujio; Shimomura, Yasuo; and Morishige, Yuji, 4,682,166, Cl. 340-825.500.
- Baba, Fumiaki: *See—*
  - Mitani, Tetsuo; Baba, Fumiaki; and Iisaka, Katsuyoshi, 4,687,801, Cl. 524-104.000.
- Baba, Fumio; Mochizuki, Hirohiko; and Miyahara, Hatsuo, to Fujitsu Limited. Semiconductor memory device. 4,653,027, 3-24-87, Cl. 365-189.000.
- Baba, Fumio; and Takemae, Yoshihiro, to Fujitsu Limited. Semiconductor memory device. 4,680,734, 7-14-87, Cl. 365-190.000.
- Baba, Fumio: *See—*
  - Miyahara, Hatsuo; Baba, Fumio; and Mochizuki, Hirohiko, 4,672,372, Cl. 340-825.200.
- Baba, Hidetsuyo: *See—*
  - Tsuzurahara, Mamoru; Baba, Hidetsuyo; and Kitakaze, Seiji, 4,684,845, Cl. 313-341.000.
- Baba, Hideyuki; and Mitsumori, Shigeyoshi, to Sony Corporation. Optical disc tracking servo circuit having compensation for disc defects and external disturbances. 4,703,468, 10-27-87, Cl. 369-44.000.
- Baba, Kazuo, to Olympus Optical Co., Ltd. Endoscope apparatus. 4,633,855, 1-6-87, Cl. 128-6.000.
- Baba, Kenichi: *See—*
  - Hosonuma, Sin; Fujio, Junichi; Tanaka, Kozo; Suzuki, Harue; and Baba, Kenichi, 4,643,529, Cl. 350-337.000.
- Baba, Kenji; Watanabe, Shoji; Nogita, Shunsuke; Yoda, Mikio; Tanaka, Akihiro; and Mori, Shunji, to Hitachi, Ltd. Flocculation basin in water treatment process. 4,654,139, 3-31-87, Cl. 210-85.000.
- Baba, Kiyokazu, to Kabushiki Kaisha Komatsu Seisakusho. Transfer press. 4,693,361, 9-15-87, Cl. 198-621.000.
- Baba, Masatoshi; Tanaka, Norio; Ikai, Takasi; Nawamaki, Tsutomu; and Matsunaga, Masaji, to Nissan Chemical Industries, Ltd. Herbicidal 4-benzoyl-1-methyl-5-hydroxypyrazoles. 4,643,757, 2-17-87, Cl. 71-86.000.
- Baba, Masayoshi: *See—*
  - Fujii, Takayuki; and Baba, Masayoshi, 4,648,650, Cl. 296-203.000.
- Baba, Mitsushige: *See—*
  - Abe, Katsuhiro; Kobayashi, Yoshinobu; and Baba, Mitsushige, 4,684,684, Cl. 524-227.000.
- Baba, Saburo: *See—*
  - Obayashi, Tsutomu; Ino, Kazuhide; Hiraoka, Yoshiji; and Baba, Saburo, 4,686,135, Cl. 428-265.000.
  - Obayashi, Tsutomu; Ino, Kazuhide; Hiraoka, Yoshiji; and Baba, Saburo, 4,714,650, Cl. 428-265.000.
- Baba, Sadaaki: *See—*
  - Nishizako, Shizutaka; Kitou, Toshikazu; Shoji, Shinki; and Baba, Sadaaki, 4,661,883, Cl. 361-159.000.
- Baba, Shigenori: *See—*
  - Aneha, Nobuhiko; and Baba, Shigenori, 4,701,778, Cl. 357-45.000.
- Baba, Sueki; Yamamoto, Osamu; Yamashita, Tadaoki; and Tsutsui, Hiroshi, to Matsushita Electric Industrial Co., Ltd. Energy separated quantum-counting radiography. 4,651,005, 3-17-87, Cl. 250-360.100.
- Baba, Susumu: *See—*
  - Sasaki, Nobuyoshi; Baba, Susumu; and Arai, Hisahiro, 4,712,605, Cl. 164-516.000.
- Baba, Takaaki: *See—*
  - Kobayashi, Kiyotaka; Tsukasaki, Hidaka; and Baba, Takaaki, 4,715,348, Cl. 123-571.000.
- Baba, Takashi: *See—*
  - Kitano, Hirohito; Oowaki, Toshiki; and Baba, Takashi, 4,696,697, Cl. 106-3.000.
  - Senda, Tetsuji; and Baba, Takashi, 4,705,566, Cl. 106-3.000.
- Baba, Takeshi; Iwasa, Hiroki; Nagasaka, Chikao; and Ohmi, Kyozo, to Kabushiki Kaisha Tokai Rika Denki Seisakusho. Rotary indicating device. 4,645,299, 2-24-87, Cl. 350-99.000.
- Baba, Takeshi, to Canon Kabushiki Kaisha. Gradient index type single lens. 4,647,159, 3-3-87, Cl. 350-413.000.
- Baba, Takeshi; and Hattori, Jun, to Canon Kabushiki Kaisha. Gradient index lens. 4,674,843, 6-23-87, Cl. 350-413.000.
- Baba, Takeshi; and Suda, Shigeyuki, to Canon Kabushiki Kaisha. Afocal variable magnification optical system. 4,678,899, 7-7-87, Cl 230-201.000.
- Baba, Takeshi; and Suda, Shigeyuki, to Canon Kabushiki Kaisha. Focus detecting device which varies between a varying state and a fixed state. 4,706,124, 11-10-87, Cl. 358-227.000.
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- Baba, Takeshi: *See—*
  - Matsuoka, Kazuhiko; Usui, Masayuki; Minoura, Kazuo; Baba, Takeshi; and Someya, Atsushi, 4,641,920, Cl. 350-173.000.
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  - Koshino, Yutaka; Akiyama, Tatsuo; and Baba, Yoshiro, 4,710,794, Cl. 357-49.000.
- Baba, Yuko: *See—*
  - Ookubo, Takao; Baba, Yuko; and Kamihama, Kiyoshi, 4,641,890, Cl. 301-37.0SS.
- Babad, Esther: *See—*
  - Gold, Elijah J.; Babad, Esther; Peer, Lydia; and Chang, Wei K., 4,658,060, Cl. 564-165.000.
- Babaian, Eduard A.; Gerasimova, Galina A.; Davydov, Anatoly B.; Utyamyshev, Rustam I.; Khromov, Gennady L.; Metelitsa, Vladimir I.; Vikhert, Anatoly M.; Savvateev, Konstantin L.; Piotrovsky, Vladimir K.; and Novikova, Elizaveta B., to Vsesojuny Kardiologichesky Nauchny Tsentr Adkaemii Meditsinski Nauk SSSR; and Vsesojuzny Nauchno-Issledovatelsky I Ispytateiny Institut Meditsinskoi Tekhniki. Antianginal film and method of treating ischemic heart disease. 4,713,239, 12-15-87, Cl. 424-81.000.
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- Babazada, Mordechai: *See—*
  - Frankel, Harry; Samberg, Jehuda; Bendheim, Uri; Rivan, Jehudith; and Babazada, Mordechai, 4,674,490, Cl. 128-200.140.
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  - Ching, Steve; Babbitt, Frank, Jr.; Merchant, Adnan; and Yong, Putt C., 4,633,582, Cl. 29-827.000.
- Babbitt, Frank B., Jr.: *See—*
  - Ching, Stephen; Babbitt, Frank B., Jr.; and Merchant, Adnan, 4,634,861, Cl. 250-231.0SE.
- Babbitt, Richard W.: *See—*
  - Stern, Richard A.; and Babbitt, Richard W., 4,691,208, Cl 343-785.000.

- Babbitt, William R.: *See—*
  - Mossberg, Thomas W.; Bai, Yu-Sheng; Babbitt, William R.; and Carlson, Nils W., 4,670,854, Cl. 364-822.000.
- Babbs, Charles F.: *See—*
  - Tacker, Willis A., Jr.; Bourland, Joe D.; Babbs, Charles F.; and Geddes, Leslie A., 4,708,145, Cl. 128-419.00D.
- Babbs, Dennis G.: *See—*
  - Bell, David E.; and Babbs, Dennis G., 4,635,889, Cl. 248-265.000.
- Babcock-BSH Aktiengesellschaft: *See—*
  - Grebe, Ingo; and Munch, Walter, 4,654,981, Cl. 34-114.000,
- Babcock-Hitachi Kabushiki Kaisha: *See—*
  - Asano, Isao, 4,639,575, Cl. 219-136.000.
  - Fukayama, Yukio, 4,637,348, Cl. 122-406.0ST.
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  - Ishida, Tetsuyoshi; Okiura, Kunio; Hanayama, Fumihiko; Yamada, Mutsuo; and Arikawa, Yoshijiro, 4,711,828, Cl. 429-12.000.
  - Kato, Yasuyoshi; Teshima, Nobue; Ohta, Masao; and Konishi, Kunihiko, 4,711,872, Cl. 502-328.000.
  - Kuroda, Hiroshi; Nishimura, Tsukasa; Nishimura, Masakatsu; Hashimoto, Taiki; Kanda, Osamu; Nozawa, Shigeru; and Shibata, Kenji, 4,687,649, Cl. 423-242.000.
  - Okada, Kenji, 4,675,967, Cl. 29-240.000.
  - Sohma, Ken-ichi; Arashi, Norio; Azuhata, Shigeru; Narato, Kiyoshi; Inada, Tooru; Kobayashi, Hironobu; Ohtsuka, Keizou; and Hishinuma, Yukio, 4,653,998, Cl. 431-79.000.
  - Yamada, Mutsuo; Nishimura, Yasuyuki; Arikawa, Yoshijiro; Kuwahara, Takanori; Kamiguchi, Taiji; and Tanimoto, Hirotoshi, 4,691,053, Cl. 562-531.000.
  - Yamaguchi, Tetsurou; Yamamoto, Kohji; and Honda, Kiichiro, 4,709,155, Cl. 250-554.000.
- Babcock Hydro-Pneumatic Limited: *See—*
  - Cowpertwait, John; and Edwards, Peter J., 4,667,810, Cl. 198-525.000.
- Babcock, John W.; and Wormus, Ronald K., to Stresswall International, Inc. Multitiered, rigid tieback, essentially vertical retaining wall system. 4,655,646, 4-7-87, Cl. 405-286.000.
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- Babcock, Lowell C. Salt block carrier. 4,678,218, 7-7-87, Cl. 294-16.000.
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  - Haftke, Jozef J.; Worley, Norman G.; Coleman, Colin R.; and Warris, Anne-Marie, 4,635,567, Cl. 110-188.000.
  - Santos, Luis, 4,669,584, Cl. 188-134.000.
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  - Gottschalk, Karl-Heinz, 4,697,354, Cl. 34-23.000.
- Babcock, Walter C.; and Friesen, Dwayne T., to Bend Research, Inc. Selective and continuous removal of metal-ion contaminants from plating baths. 4,702,838, 10-27-87, Cl. 210-638.000.
- Babcock & Wilcox Company, The: *See—*
  - Agarwal, Suresh C., 4,668,473, Cl. 422-62.000.
  - Anderson, Paul T.; Irwin, Lawrence; Matthews, John C.; and Paugh, Charles E., 4,679,378, Cl. 53-405.000.
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  - Birchak, James R.; Flora, John H.; and Holt, Amos E., 4,649,343, Cl. 324-220.000.
  - Brandsberg, Timothy A.; and Pillow, Ronald C., 4,636,120, Cl. 411-14.000.
  - Brenneman, Benjamin, 4,703,660, Cl. 73-861.380.
  - Burnett, James M.; Daftari, Rohit M.; and Reyns, Randolph M., 4,668,038, Cl. 339-94.00M.
  - Casteen, Lynn A.; Gilbert, Kim T.; Patel, Raj L.; and Snoke, Steven R., 4,673,546, Cl. 376-289.000.
  - Ciammaichella, Richard C.; and Youmans, Barry J., 4,667,157, Cl. 324-204.000.
  - Cioffi, Paul L.; Donahoe, Thomas S.; and Keith, George R., 4,655,395, Cl. 239-427.000.
  - Conde, James C., 4,669,531, Cl. 165-4.000.
  - Cooper, Marshall H.; and Pocock, Robert E., 4,653,698, Cl. 241-31.000.
  - Dolsen, Phillip C.; and Slabinski, Chet J., 4,652,873, Cl. 340-825.500.
  - Dougan, Donald R.; Peters, Gerald W.; and Kish, William C., 4,687,145, Cl. 241-57.000.
  - Durrant, Oliver W.; Kakarala, Chandrasekhara R.; and Mandel, Sheldon W., 4,656,335, Cl. 219-271.000.
  - Durrant, Oliver W.; Kakarala, Chandrasekhara R.; and Mandel, Sheldon W., 4,674,285, Cl. 60-676.000.
  - Elliott, Patrick H.; and Funk, James L., 4,659,601, Cl. 428-36.000.
  - Fasnacht, Floyd A., Jr.; Klahn, Frank C.; Schafer, Bruce W.; and Werner, Charles E., 4,700,662, Cl. 122-392.000.
  - Fidler, Fredrick H.; and Lowe, Thomas B., 4,714,072, Cl. 126-1.00F.
  - Finch, Curtis L., 4,635,333, Cl. 29-157.400.
  - Flora, John H.; and Powers, Thomas, Jr., 4,640,132, Cl. 73-602.000.
  - Flora, John H.; Womack, Robert E.; Stinnett, Carlton E.; and Dalton, Claude W., 4,710,710, Cl. 324-220.000.
  - Fry, John J.; Bastijanic, Edward; and Robertson, John W., Jr., 4,703,407, Cl. 363-16.000.
  - Gerber, David W., 4,659,114, Cl. 285-11.000.
  - Gerber, David W.; and Untch, Frederick M., 4,705,098, Cl. 165-4.000.
  - Glass, Samuel W., III, 4,689,985, Cl. 73-1.00R.
  - Gohara, Wadie F., 4,648,353, Cl. 122-4.00D.
  - Harth, George H., III; Zolton, Gregory P., II; and Copen, Robert L., 4,682,397, Cl. 29-407.000.
  - Hill, Charles A., 4,650,775, Cl. 501-95.000.
  - Hipple, James H.; Smith, Don W.; and Reed, Neil E., 4,633,711, Cl. 73-293.000.
  - Jeffers, Larry A., 4,644,173, Cl. 250-554.000.
  - Johnson, Ralph K.; Kaya, Azmi; Keyes, Marion A., IV; and Moss, William H., 4,685,072, Cl. 364-551.000.
  - Kalen, David D., 4,693,389, Cl. 220-236.000.
  - Kaya, Azmi; and Rice, Larry, 4,704,805, Cl. 34-31.000.
  - Keyes, Marion A., IV; and Shaffer, Jeremiah J., 4,697,980, Cl. 415-1.000.
  - Kidaloski, Raymond G.; Olinger, Harry S.; and Bryk, Stephen A., 4,685,426, Cl. 122-214.000.
  - Kidwell, John H.; Prueter, William P.; and Eaton, Andrew M., 4,648,890, Cl. 55-347.000.
  - King, Raymond A.; Larson, Jeffrey G.; and Walton, Lewis A., 4,678,630, Cl. 376-438.000.
  - Knudsen, James K.; Smith, Jane E.; Budan, Victor J.; Wroblewski, David J.; and Skuratovsky, Eugene, 4,679,445, Cl. 73-861.240.
  - Kutrow, James R., 4,659,020, Cl. 239-752.000.
  - LaCount, Dale F.; Holbrook, Richard L.; Mayer, Dean L.; and Kahlow, Kurt J., deceased, 4,649,728, Cl. 72-85.000.
  - LaRue, Albert D., 4,654,001, Cl. 431-354.000.
  - Latimer, Paul J., 4,685,334, Cl. 73-599.000.
  - Lawrie, William E.; Powers, Thomas, Jr.; and Brophy, Joseph W., 4,702,112, Cl. 73-629.000.
  - Lester, Samuel R., 4,669,310, Cl. 73-597.000.
  - Merker, David E., 4,672,832, Cl. 72-62.000.
  - Rigdon, Michael A.; and Zurlippe, Clemens F., 4,655,384, Cl. 228-132.000.
  - Robertson, John W., Jr.; Bastijanic, Edward; and Sterling, Edward L., Jr., 4,655,074, Cl. 73-4.00R.
  - Roseveare, Ronald N., 4,645,634, Cl. 376-245.000.
  - Ross, David F., 4,663,017, Cl. 204-409.000.
  - Russell, Thomas D.; and Walker, Robert R., 4,665,706, Cl. 60-646.000.
  - Scheib, Thomas J., 4,670,713, Cl. 324-103.00R.
  - Sterling, Edward L., Jr.; and Thompson, William L., 4,691,328, Cl. 375-36.000.
  - Stockmaster, Edward F., 4,687,276, Cl. 439-557.000.
  - Thompson, William L., 4,656,353, Cl. 250-231.00R.
  - Thornton, Thomas A.; and Pettus, William G., 4,643,866, Cl. 376-245.000.
  - Vouk, Kenneth L.; and White, Kelly, 4,674,349, Cl. 74-424.80A.
  - Whitford, Rowland E., 4,669,038, Cl. 363-25.000.
  - Wroblewski, David J.; and Robertson, John W., Jr., 4,692,933, Cl. 377-29.000.
- Babcock Wire Equipment Limited: *See—*
  - Anderson, Douglas E.; and Mitchell, Keith J., 4,650,408, Cl. 425-79.000.
- Babczinski, Peter: *See—*
  - Knops, Hans-Joachim; Babczinski, Peter; Eue, Ludwig; Santel, Hans-Joachim; and Schmidt, Robert R., 4,670,044, Cl. 71-92.000.
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- Babel, Werner, to MAHO Aktiengesellschaft. Cubicle for machining centers. 4,687,088, 8-18-87, Cl. 192-133.000.
- Babel, Werner, to MAHO Aktiengesellschaft. Tool magazine. 4,700,452, 10-20-87, Cl. 29-568.000.
- Babel, Werner, to MAHO Aktiengesellschaft. Tool-clamping device. 4,704,056, 11-3-87, Cl. 409-233.000.
- Babel, Werner, to MAHO Aktiengesellschaft. Tool holder for milling or boring machine. 4,705,440, 11-10-87, Cl. 409-233.000.
- Babel, Wolfgang, to Diehl GmbH & Co. Mine with alarm and triggering sensors. 4,712,479, 12-15-87, Cl. 102-427.000.
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- Baber, Samuel C.: *See—*
  - Porter, Vernon R.; and Baber, Samuel C., 4,673,592, Cl. 427-53.100.
- Baberowski, Waldemar: *See—*
  - Spiess, Karl; Baberowski, Waldemar; and Glatter, Otto, 4,704,782, Cl. 29-434.000.
- Babich, Edward D.; Hatzakis, Michael; Liutkis, John J.; Parasczak, Juri R.; and Shaw, Jane M., to International Business Machines Corporation. Photolithographic etching process using organosilicon polymer composition. 4,693,960, 9-15-87, Cl. 430-323.000.
- Babin, Michel: *See—*
  - Millot, Jean-Paul; Desfontaines, Guy; and Babin, Michel, 4,657,733, Cl. 376-178.000.
  - Millot, Jean-Paul; Desfontaines, Guy; and Babin, Michel, 4,666,653, Cl. 376-209.000.
- Babineaux, Jules: *See—*
  - Amy, A. Andre ; and Babineaux, Jules, 4,693,102, Cl. 72-53.000.
- Babinski, Thomas E., to Eaton Corporation. Transistor fault tolerance method and apparatus. 4,651,252, 3-17-87, Cl. 361-93.000.

Babior, Bernard M., to New England Medical Center Hospitals, Inc. Stabilization of granulocytes. 4,639,373, 1-27-87, Cl. 424-101.000.

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Babitzka, Rudolf, to Robert Bosch GmbH. Fuel injection pump for internal combustion engines. 4,660,522, 4-28-87, Cl. 123-450.000.

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Babler, Fridolin; Jaffe, Edward E.; and Medinger, Bernhard, to Ciba-Geigy Corporation. Novel compositions based on indanthrone blue pigments. 4,692,189, 9-8-87, Cl. 106-308.00S.

Babsch, Alfred; Beth, Dieter; Panzer, Werner; and Stempfle, Johann, to Mannesmann AG. Increment sensing with three beam mark detection. 4,673,810, 6-16-87, Cl. 250-231.0SE.

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Brzezicki, Joseph M.; and Babuder, Gerald A., 4,665,960, Cl. 141-384.000.

Babuin, Piero, to Zanussi Elettrodomestici SPA. Laundry washing machine. 4,696,171, 9-29-87, Cl. 68-207.000.

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Mori, Maurizio; Babuin, Piero; and Cargnel, Giuseppe. 4,711,103, Cl. 68-12.00R.

Baby Bjorn Aktiebolag: *See—*

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Wood, P. John; and Gray, Richard A., 4,651,129, Cl. 340-72.000.

Bacardit, Juan S.; and Planas, Fermin P., to Bendiberica S.A. Rotary hydraulic distributor, more particularly for a power steering system. 4,660,459, 4-28-87, Cl. 91-375.00R.

Bacardit, Juan S., to Bendiberica S.A. Hydraulic distributor for a servomechanism with reaction on the input component. 4,665,797, 5-19-87, Cl. 91-370.000.

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Bacardit, Juan S., to Bendiberica S.A. System for generating braking pressure. 4,685,298, 8-11-87, Cl. 60-547.100.

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van Gilluwe, Frank L.; Dunham, Samuel B.; and Cross, Douglas A., 4,677,661, Cl. 379-159.000.

Bacchetti, Lawrence F.; Walker, David M.; and Smith, Donald O., to Control Data Corporation. Method and apparatus for in-situ plasma cleaning of electron beam optical systems. 4,665,315, 5-12-87, Cl. 250-492.100.

Baccini, Giovanni. Scales. 4,643,266, 2-17-87, Cl. 177-169.000.

Bach, Bert R., to Endotronics, Inc. Method and apparatus for growing cells in vitro. 4,647,539, 3-3-87, Cl. 435-284.000.

Bach, Christopher R.: *See—*

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Bach, David T.; Gruenke, Roger A.; and Levin, Herman W., to Du Pont de Nemours, E. I., and Company. Optical detector cell. 4,681,443, 7-21-87, Cl. 356-246.000.

Bach, Erik, to Interlego A.G. Current-carrying element. 4,715,832, 12-29-87, Cl. 439-723.000.

Bach, Gary, to Presto Products, Incorporated. Ultrasonic spot welding tip assembly and method for using the same. 4,647,325, 3-3-87, Cl. 156-73.100.

Bach, Hans-Peter: *See—*

Mann, Egon; and Bach, Hans-Peter, 4,651,526, Cl. 60-456.000.

Bach, Hanswilhelm: *See—*

Kessen, Gunther; Cornils, Boy; Gick, Wilhelm; Wiebus, Ernst; Hibbel, Joseph; Bach, Hanswilhelm; and Zgorzelski, Wolfgang, 4,684,750, Cl. 568-883.000.

Konkol, Werner; Bahrmann, Helmut; Dambkes, Georg; Gick, Wilhelm; Wiebus, Ernst; and Bach, Hanswilhelm, 4,711,648, Cl. 55-73.000.

Bach, Hartwig C., to Monsanto Company. Basic dyeable acrylic fiber. 4,645,798, 2-24-87, Cl. 525-192.000.

Bach, Jean-Francois; Dardenne, Mireille; Pleau, Jean-Marie; Hamburger, Jean; Bricas, Evangheios; Martinez, Jean; Blanot, Didier; Auger, Genevieve; Lefrancier, Pierre; and Amor, Bernard, to Institut National de la Sante et de la Recherche Medicale. Metal polypeptides. 4,680,276, 7-14-87, Cl. 436-542.000.

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Bach, Lloyd G., to Allied Corporation. Hydraulic brake booster with quick take-up and reduced stroke. 4,665,701, 5-19-87, Cl. 60-547.100.

Bach, Lloyd G.: *See—*

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Bach, Morris. Unitary tamper proof container. 4,703,610, 11-3-87, Cl. 53-471.000.

Bach, Nicholas J.: *See—*

Laguzza, Bennett C.; Nichols, Cynthia L.; and Bach, Nicholas J., 4,683,313, Cl. 548-437.000.

Bach, Norbert; Economopoulos, Marios; Gredt, Marc; Lessel, Guy; and Schummer, Arthur, to Centre de Recherches Metallurgiques-Centrum Voor Research in de Metallurgie. Process for the production of medium carbon steel wire rod. 4,704,166, 11-3-87, Cl. 148-12.00B.

Bach, Randall E.: *See—*

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Bach, Stanley M., Jr.: *See—*

Heilman, Marlin S.; and Bach, Stanley M., Jr., 4,662,377, Cl. 128-419.00D.

Bachand, Carol: *See—*

Martel, Alain, and Bachand, Carol, 4,665,169, Cl. 540-350.000.

Bacharach, Inc.: *See—*

Fruhwald, John M., 4,642,172, Cl. 204-231.000.

Novack, Robert L.; and Tomasovic, Beth A., 4,636,294, Cl. 204-432.000.

Novack, Robert L.; and Fruhwald, John M., 4,664,886, Cl. 422-94.000.

Tomasovic, Beth A., and Novack, Robert L., 4,639,306, Cl. 204-432.000.

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Bachel, Ernst; and Giebel, Wolfgang, to Siemens Aktiengesellschaft. Longitudinally divided sleeve of shrinkable material. 4,714,277, 12-22-87, Cl. 285-39.000.

Bachelard, Roland; and Joubert, Philippe, to Comurhex. Process for the preparation of pulverulent metallic oxides from metallic nitrates. 4,687,601, 8-18-87, Cl. 252-638.000.

Bacher, Alfred A.: *See—*

Garrett, David; and Bacher, Alfred A., 4,670,159, Cl. 210-711.000.

Bacher, Michel; and Rumignani, Paolo, to Valeo. Clutch cover assembly. 4,635,779, 1-13-87, Cl. 192-89.00B.

Bacher, Michel: *See—*

Alas, Jacques; and Bacher, Michel, 4,714,148, Cl. 192-107.00C.

Billet, Rene; and Bacher, Michel, 4,635,776, Cl. 192-70.270.

Billet, Rene; and Bacher, Michel, 4,650,051, Cl. 192-70.120.

Carmillet, Roger; Graton, Michel; and Bacher, Michel, 4,655,337, Cl. 192-106.200.

Carmillet, Roger; Graton, Michel; and Bacher, Michel, 4,674,992, Cl. 464-68.000.

Carmillet, Roger; Graton, Michel; and Bacher, Michel, 4,685,896, Cl. 464-68.000.

Bachhofer, Bruno; and Locher, Anton. Ozone water purifying apparatus. 4,652,370, 3-24-87, Cl. 210-192.000.

Bachhofer, Bruno; and Locher, Anton. Air desiccating apparatus. 4,661,128, 4-28-87, Cl. 55-208.000.

Bachhofer, Bruno; and Locher, Anton. 5/2-Way commutating valve, particularly for reverse-flush filters. 4,714,551, 12-22-87, Cl. 210-278.000.

Bachinger, Peter; and Giancarlo, Mondini, to Maschinenfabrik Rieter AG. Method of and apparatus for forming a wadding lap. 4,673,137, 6-16-87, Cl. 242-55.100.

Bachl, Robert; Warzelhan, Volker; Schweier, Guenther; Gropper, Hans; and Ball, Wolfgang, to BASF Aktiengesellschaft. Preparation of homopolymers of ethene and copolymers of ethene with higher α-monolefins using a Ziegler catalyst system. 4,710,552, 12-1-87, Cl. 526-116.000.

Bachl, Robert: *See—*

Warzelhan, Volker; Bachl, Robert; Ball, Wolfgang; Funk, Guido; and Laun, Martin, 4,705,835, Cl. 526-116.000.

Bachler, Werner; Heisig, Rolf; Klein, Hans-Hermann; and Volker, Karl-Heinz, to Leybold-Heraeus GmbH. Damped displacer refrigerating machine. 4,642,995, 2-17-87, Cl. 62-6.000.

Bachman, Brett L.; Bernstein, David H.; Bratt, Richard G.; Clancy, Gerald F.; Gavrin, Edward S.; Gruner, Ronald H.; Jones, Thomas M.; Katz, Lawrence H.; Mundie, Craig J.; Pilat, John F.; Richmond, Michael S.; Schleimer, Stephen I.; Wallach, Steven J.; and Wallach, Walter A., Jr., to Data General Corporation. Digital data processing system having a uniquely organized memory system and means for storing and accessing information therein. 4,656,579, 4-7-87, Cl. 364-200.000.

Bachman, Gilbert; and Heninger, Byrne E. Automated teller machine transaction receipts with integral promotional game. 4,671,512, 6-9-87, Cl. 273-139.000.

Bachman, Phil J. Holder for stepladder. 4,703,833, 11-3-87, Cl. 182-129.000.

Bachman, Thomas E.; McDavid, Larry S.; and Trueblood, David M., to Sensormedics Corporation. Gas monitor having trend indicators. 4,697,450, 10-6-87, Cl. 73-23.000.

iman, William J.; and DiMeo, Franklin R., to RCA Corporation
elevision cabinet having snap-together assembly. 4,635,809, 1-13-87,
, 220-4.00B.

iman, William J.: *See—*
Ramspacher, Robert J.; Bachman, William J.; and DiMeo, Franklin
R., 4,662,531, Cl. 220-4.00B.

imann, Dorian L.: *See—*
Filho, Jorge H.; and Bachmann, Dorian L., 4,707,275, Cl.
210-787.000.

imann, Friedrich, to Siemens Aktiengesellschaft. Method for creat-
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imann, Henry C.; Brown, Omar L.; Fraze, Ermal C.; Wynn, David
; and Gregg, James R., to Dayton Reliable Tool & Mfg. Co. Shell
r can ends. 4,637,961, 1-20-87, Cl. 428-579.000.

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ethod and apparatus for making shells for can ends. 4,704,887,
-10-87, Cl. 72-347.000.

hmann, Henry C.; and Fraze, Ermal C., to Dayton Reliable Tool &
lfg. Co. Method and apparatus for fabricating a can body. 4,711,611,
2-8-87, Cl. 413-69.000.

hmann, Horst; and Wulf, Rudolf, to Robert Bosch GmbH. Portable
levision camera having a chest support lockable in multiple posi-
ons. 4,668,992, 5-26-87, Cl. 358-229.000.

hmann, Horst, to Robert Bosch GmbH. Interlocked television
amera and electronic viewfinder combination. 4,682,240, 7-21-87,
l. 358-224.000.

hmann, Jean-Marie; Pion, Jacques; and Raisin, Jean-Pierre, to In-
itut Textile de France. Sewing machine workpiece edge alignment
pparatus. 4,682,553, 7-28-87, Cl. 112-121.120.

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ecker Aktiengesellschaft. Device for coupling the shank and the
alving element of a shutoff valve to each other. 4,653,721, 3-31-87,
l. 251-88.000.

hmann, Wolfgang; and Spahn, Dieter, to Asten Group, Inc. Endless
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62-348.000.

hner, George, to Nimco Corporation. Stacking tab for tapered
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hot, Jean; and Dumousseau, Jean-Yves, to Rhone-Poulenc Specia-
tes Chimiques. Electrolytic oxidation. 4,657,644, 4-14-87, Cl.
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hinger, Rolf, to Siemens-Albis AG. Circuit arrangement for the
egulation of a multichannel pulse compression system. 4,674,104,
-16-87, Cl. 375-37.000.

hvarov, Rumen D.: *See—*
Balevski, Angel T.; Nikolov, Ivan D.; Momchilov, Emil N.; Bachvarov, Rumen D.; Ostrovski, Vassil N.; Nikolchov, Alexander S.; Stoyanov, Peyo T.; Petrov, Valentin G.; and Lyubenov, Toshko K., 4,671,342, Cl. 164-458.000.

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nducing method. 4,673,691, 6-16-87, Cl. 514-567.000.

cino, David J.: *See—*
Freiberg, Leslie A.; and Bacino, David J., 4,686,207, Cl. 514-29.000.

ciu, Antoine: *See—*
Montet, Maurice; and Baciu, Antoine, 4,670,199, Cl. 264-1.900.

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ystem for an earthdrill. 4,671,365, 6-9-87, Cl. 173-28.000.

ck, Gerhard; Schutz, Hans U.; and Schlesinger, Ulrich, to Ciba-
Geigy Corporation. Metal dye complexes containing an azo or
azomethine dye and a colorless ligand with the C=N—N=C group.
4,678,851, 7-7-87, Cl. 534-619.000.

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containing an azo or azomethine dye and a colorless ligand with the
C=N—N=C group. 4,680,385, 7-14-87, Cl. 534-695.000.

ck, Gerhard; and Mosimann, Walter, to Ciba-Geigy Corporation.
Process for dyeing natural or synthetic polyamide fibre materials
with 1:1 metal complex dyes or mixtures of dyes with fluoride,
fluorosilicate or fluoroborate. 4,681,596, 7-21-87, Cl. 8-620.000.

ck, Gerhard: *See—*
Reinert, Gerhard; Huber-Emden, Helmut; and Back, Gerhard, 4,655,783, Cl. 8-115.660.
Reinert, Gerhard; Back, Gerhard; and Huber-Emden, Helmut, 4,655,785, Cl. 8-442.000.
Reinert, Gerhard; Schutz, Hans U.; and Back, Gerhard, 4,704,133, Cl. 8-442.000.

ck, John T., to Oy Wilk & Hoglund AB. Method for extrusion
production of large dimensional thermoplastic articles. 4,704,244,
11-3-87, Cl. 264-566.000.

ck, Sigurd; Nyqvist, Jan-Olof; and Ericsson, Per, to Nobel Kemi AB.
Method of phlegmatization of crystalline explosives and other explo-
sive crystalline substances, as well as a method of producing plastic
bound explosive and substances produced according to the method.
4,699,741, 10-13-87, Cl. 264-3.400.

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the manufacture of composite explosives. 4,714,572, 12-22-87, Cl.
264-3.400.

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Valve spool with cross drill ports. 4,658,859, 4-21-87, Cl. 137-625.230.

cke, Bengt S.; and Durham, LaMoyne W., to South Bend Lathe, Inc.
Method and apparatus for controlling hydraulic systems. 4,706,456,
11-17-87, Cl. 60-368.000.

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Usinor Aciers. Process and device for regulating the quantity of metal electrolytically deposited on a continuously travelling band. 4,699,694, 10-13-87, Cl. 204-28.000.

Backenstow, Don E.; and Gillenwater, Richard J., to Carlisle Corporation. High wind resistant membrane roof system. 4,649,686, 3-17-87, Cl. 52-509.000.

Backer, Bruce E. Interconnecting "full bleed" modular panel and connective hardware system to form a variety of exhibit and office interior enclosures. 4,712,336, 12-15-87, Cl. 52-71.000.

Backer, Robert, to B & B Tools. Aneurysm clip pliers. 4,706,668, 11-17-87, Cl. 128-325.000.

Backer, Wolfgang; Wagner, Wolfram; Hahn, Gunther; and Miessen, Ralf, to Bayer Aktiengesellschaft. Method for the multi-stage fibre cables and the apparatus required for it. 4,701,980, 10-27-87, Cl. 19-0.480.

Backerud, Stig L., to Sinter-Cast AB. Method for producing cast-iron, and in particular cast-iron which contains vermicular graphite. 4,667,725, 5-26-87, Cl. 164-4.100.

Backlund, Stephen J.; and Olsen, Robert E., to United States of America, America. Carbamate compounds. 4,686,304, 8-11-87, Cl. 560-25.000.

Backlund, Ulf E. H. H.; and Ungerstedt, Carl U. Apparatus for manipulating small volumes of liquid. 4,715,413, 12-29-87, Cl. 141-94.000.

Backman, Keith C., to Biotechnica International, Inc. Regulated protein production using site-specific recombination. 4,673,640, 6-16-87, Cl. 435-68.000.

Backman, Sune; and Hakanson, Hakan. Method and installation of filtration with compressible discs. 4,664,814, 5-12-87, Cl. 210-780.000.

Backman, Sune; and Hakanson, Hakan. Method of making filter paper. 4,710,402, 12-1-87, Cl. 427-244.000.

Backmann, Reinhard, to Anton Cramer GmbH & Co. Method for the automatical sewing of quilting patterns in fabric webs, especially bed sackings or ticks of (wadded) bed quilts. 4,649,842, 3-17-87, Cl. 112-266.100.

Backof, Charles A., Jr.; and Huntzinger, Mark E., to Motorola, Inc. QAM modulator circuit. 4,646,326, 2-24-87, Cl. 375-39.000.

Backstrom, Hans. Rotary pump with cutter device for contaminated fluids. 4,637,785, 1-20-87, Cl. 418-48.000.

Backstrom, Holger G. Burner system at heating unit. 4,643,673, 2-17-87, Cl. 431-340.000.

Backu, Konrad; Ast, Adolf; and Mogg, Herbert, to August Sauter GmbH. Scale with load bed supported by improved load uprights. 4,669,558, 6-2-87, Cl. 177-187.000.

Bacon, Chester A., Jr.: *See—*
Tung, Chi F.; and Bacon, Chester A., Jr., 4,678,695, Cl. 428-120.000.

Bacon, David D.: *See—*
Bacon, Donald V.; and Bacon, David D., 4,644,653, Cl. 30-272.00R.

Bacon, Donald V.; and Bacon, David D. Reciprocating knife. 4,644,653, 2-24-87, Cl. 30-272.00R.

Bacon, James I.: *See—*
Orsburn, Michael L.; Hemsky, Robert L.; and Bacon, James I., 4,642,682, Cl. 358-80.000.

Bacon, Jimmy R., to Ewers, and Willis. Electric regeneration apparatus and method for driving a load. 4,689,531, 8-25-87, Cl. 318-139.000.

Bacon, Kenneth: *See—*
Bacon, Rosemarie; and Bacon, Kenneth, 4,705,051, Cl. 132-79.00A.

Bacon, Lawrence D.: *See—*
Thompson, William W.; Bacon, Lawrence D.; Curry, Kent G.; and Morihiro, Steve, 4,676,138, Cl. 89-33.140.

Bacon, Rosemarie; and Bacon, Kenneth. Powdered cosmetic container. 4,705,051, 11-10-87, Cl. 132-79.00A.

Bacou, Claude; Baptiste, Rene; Feissel, Henri; Takats, Gilbert; and Cabrol, Christian, to Bull S.A. (Societe Anonyme). Optoelectric transducer. 4,714,828, 12-22-87, Cl. 250-214.00C.

Bacrania, Kanti; and Cooper, Frank R., to Harris Corporation. Current to voltage interface. 4,665,327, 5-12-87, Cl. 307-475.000.

Bacrania, Kanti, to Harris Corporation. TTL compatible input buffer. 4,677,321, 6-30-87, Cl. 307-475.000.

Bacsa, Gyorgy: *See—*
Madi-Szabo, Laszlo; Morvai, Margit; Horvath nee Feher, Eva; Jansco, Sandor; Tamasi, Piroska; Kovacs, Istvan; Kiss nee Loss, Ilona Maria; Bacsa, Gyorgy; Kubala nee Papp, Maria; and Bene nee Horvath, Magdolna, 4,705,779, Cl. 514-27.000.

Bacskai, Endre; Retfalvi, Ferenc; and Sasdi, Andras, to Kohaszati Cyaropito Vallalat Gepipari Technologiai Intezet. Video-radiographic process and equipment for a quality controlled weld seam. 4,694,479, 9-15-87, Cl. 378-58.000.

Bacskai, Gyorgy: *See—*
Komives, Tamas; Dutka, Ferenc; Barta, Istvan; Jablonkai, Istvan; Hulesch, Agnes; Bihari, Ferenc; Eifert, Gyula; Bohus, Peter; Nagy, Mihaly; Bacskai, Gyorgy; and Kuronya, Istvan, 4,708,733, Cl. 71-94.000.

Bacskai, Robert, to Chevron Research Company. Mixed metal alkyl catalyst for olefin polymerization. 4,675,303, 6-23-87, Cl. 502-115.000.

Bactex, Inc.: *See—*
Brinton, Charles C.; and McMichael, John C., 4,696,896, Cl. 435-7.000.

Baczuk, Robert J.: *See—*
Pehrson, West F., and Baczuk, Robert J., 4,654,103, Cl. 156-276.000.

Badaracco, John A.; and Martin, Henry A. Tape cleaning machine. 4,637,088, 1-20-87, Cl. 15-97.00R.

Badders, Edwin T. Back flow prevention valve. 4,672,991, 6-16-87, Cl. 137-218.000.

Badeau, Jean-Pierre: *See—*

Coulon, Andre; Loier, Chantal; and Badeau, Jean-Pierre, 4,689,095, Cl. 148-325.000.

Bademis, Johannis. Attachment and locking device for a dental prosthesis. 4,659,312, 4-21-87, Cl. 433-182.000.

Bader, Alain: *See—*

Boutterin, Daniel; Bertaux, Jean-Paul; and Bader, Alain, 4,639,916, Cl. 371-16.000.

Bader, Clifford J., to Systems Development Corporation. Circuit for reducing electromagnetic interference from magnetic core keyboards. 4,665,461, 5-12-87, Cl. 361-159.000.

Bader, Hans P.: *See—*

Bappert, Adolf; and Bader, Hans P., 4,675,972, Cl. 29-526.00R.

Bader, Imre; Berecz, Endre; Szina, Gabor; and Horvath, Janos, to Nehezipari Muszaki Egyetem. Apparatus for determination of aluminum oxide content of the cryolite melt in aluminum electrolysis cells. 4,639,304, 1-27-87, Cl. 204-413.000.

Bader, James S., to Adolph Coors Company. Molded clip reorienter and applicator. 4,673,104, 6-16-87, Cl. 221-261.000.

Bader, Jean-Marc, to Societe Nationale Elf Aquitaine; and Marek B.V. Intermediary channel for a feeding device for a pulsatory combustion chamber. 4,634,371, 1-6-87, Cl. 431-116.000.

Bader, Mark D.: *See—*

Wang, Karl L.; and Bader, Mark D., 4,689,771, Cl. 365-189.000.

Bader, Robert J., Jr., to Signode Corporation. Strap accumulator. 4,651,944, 3-24-87, Cl. 242-75.500.

Bader, Rolf; Last, Hartmut; Mayer, Manfred; Rittner, Siegbert; and Wetzel, Edgar, to Hoechst Aktiengesellschaft. Process for separating dimethyl isophthalate and dimethyl orthophthalate from their mixture with dimethyl terephthalate. 4,683,034, 7-28-87, Cl. 203-43.000.

Bader, Samuel M. Design column and door system for highway trailers. 4,652,042, 3-24-87, Cl. 296-181.000.

Badesha, Santokh S.; and Smith, Thomas W., to Xerox Corporation. Process for the preparation of colloidal dispersions of chalcogens and chalcogenide alloys. 4,645,619, 2-24-87, Cl. 252-314.000.

Badge, Roger; and Cowen, David W., to Westinghouse Brake & Signal Co., Ltd. Proving safe operation. 4,672,223, 6-9-87, Cl. 307-3.000.

Badger, Christopher W.; Burdette, Everette C.; Leech, Steven C.; and McCarthy, John F., to Labthermics Technologies, Inc. Temperature control and analysis system for hyperthermia treatment. 4,638,436, 1-20-87, Cl. 364-414.000.

Badger Company, Inc., The: *See—*

Whittle, Leslie F., 4,695,664, Cl. 585-440.000.

Badger, Edward W.: *See—*

Taylor, Michael D.; and Badger, Edward W., 4,678,796, Cl. 514-356.000.

Badger Meter, Inc.: *See—*

Vander Heyden, William H., 4,633,719, Cl. 73-861.280.

Vander Heyden, William H., 4,663,977, Cl. 73-861.270.

Badger Northland, Inc.: *See—*

Smith, Robert W., 4,685,555, Cl. 198-731.000.

Badger, Robert J. T. Utility game bag system. 4,690,045, 9-1-87, Cl. 99-485.000.

Badgley, Kenton D.: *See—*

Weder, Donald E.; Weder, Erin H.; Ruth, Howard M.; King, Michael J.; Craig, Franklin J.; Jones, Larry J.; Badgley, Kenton D.; Snider, Harry J., deceased; Snider, Laura, legal representative; Dye, S. Owen; Wiedner, Clay R.; Weder, Bill C.; and Langenberg, Robert L., 4,646,388, Cl. 19-80.00R.

Badiali, John A., to Custom Spec Engineering, Inc. Bevel gear driven offset screwdriver arrangement. 4,643,052, 2-17-87, Cl. 81-57.280.

Badiali, Roberto; Bertoli, Luciano; and Speranzin, Claudio, to Officine Savio S.p.A. Splicer device for the mechanical splicing of textile yarns. 4,637,205, 1-20-87, Cl. 57-22.000.

Badin Crouzet: *See—*

Gohin, Christian; and Leblond, Henri, 4,672,848, Cl. 73-505.000.

Badin Crouzet Aerodrom de Toussus-le-Noble: *See—*

LeBlond, Henri; and Cabot, Louis, 4,672,846, Cl. 73-180.000.

Badin, Suzan; Moulin, Jean-Francois; Delattre, Luc; and Renan, Patrice, to Essilor International (Compagnie Generale d'Optique). Grinding machine for guided or non-guided beveling or grooving of an ophthalmic lens. 4,640,055, 2-3-87, Cl. 51-101.0LG.

Badinier, Christian; Louhichi, Alain; Annichini, Andre; and Dufour, Alain, to Societe Lorraine et Somafer; and Meridionale de Laminage Continu Solmer. Tool for cleaning pouring runners. 4,675,052, 6-23-87, Cl. 134-8.000.

Badlani, Manu L.: *See—*

Porowski, Jan S.; O'Donnell, William J.; Badlani, Manu L.; and Hampton, Edward J., 4,683,014, Cl. 148-131.000.

Porowski, Jan S.; Badlani, Manu L.; O'Donnell, William J.; and Hampton, Edward J., 4,702,880, Cl. 376-305.000.

Bado, Charles W.; and Detrick, Randy, to Recipe Terminal Corporation. Apparatus and method for generation of brand name specific advertising media. 4,703,423, 10-27-87, Cl. 364-400.000.

Badolato, Anthony; and Prince, Melissa A., to McNeilab, Inc. Filtration media and supporting frame. 4,668,394, 5-26-87, Cl. 210-314.000.

Bador S.A.: *See—*

Lauzier, Rene; Rollin, Jean; Choquelle, Jean; Dumas, Gerard; Breat, Francois; Rousson, Maurice; and Defour, Paule, 4,705,286, Cl. 280-281.00R.

Badouard, Michel; Durame, Claude; and Pade, Bernard, to Legrand. Package with peel-off film closure. 4,673,085, 6-16-87, Cl. 206-459.000.

Badoureaux, Jean-Pierre, to Parker Hannifin Corporation. Valve couplers designed to allow their connection despite the presence of considerable residual pressure in user lines. 4,702,278, 10-27-87, Cl. 137-614.050.

Badoux, Jean-Paul; Chaix, Jean E.; and Metteey, Michel, to Commissariat A L'Energie Atomique. Steam generator, particularly for pressurized water nuclear reactor. 4,683,112, 7-28-87, Cl. 376-402.000.

Badria, Joseph L., to Kraaij, Gerardus Johannes, a part interest. Sprinklers. 4,671,462, 6-9-87, Cl. 239-227.000.

Badulescu, Florin: *See—*

Axinti, Gavril; Arama, Stefanica; Draghici, Ionel; Bratu, Polidor; Stanciu, Corneliu; Ghinea, Aurelian; Badulescu, Florin; and Diaconu, Cristian, 4,688,468, Cl. 91-317.000.

Bae, Deung. Assembled chair or flowerpot holder. 4,702,521, 10-27-87, Cl. 297-440.000.

Baecchi, Alfredo; Bozzolini, Aldo; Santoni, Tancredo; and Mori, Carlo, to Tutoespresso s.r.l. Dispensing unit for manually-operated hot drink dispensing machine with pre-manufactured throwaway containers of two sizes. 4,646,626, 3-3-87, Cl. 99-275.000.

Baechler, Theodor; and Amann, Josef, to Messerschmitt-Bolkow-Blohm GmbH. Recoilless launching device. 4,643,071, 2-17-87, Cl. 89-1.701.

Baechtold, Werner: *See—*

Harder, Christoph S.; Wolf, Hans P.; Baechtold, Werner; Gueret, Pierre L.; and Baratoff, Alexis, 4,675,711, Cl. 357-22.000.

Baeger, Holm, to VDO Adolf Schindling AG. Liquid crystal display. 4,674,210, 6-23-87, Cl. 40-542.000.

Baeger, Holm, to VDO Adolf Schindling AG. Display device, particularly a liquid crystal display, and method for the manufacture thereof. 4,685,770, 8-11-87, Cl. 350-344.000.

Baeger, Holm, to VDO Adolf Schindling AG. Liquid-crystal cell with depressions for wider viewing angle. 4,693,559, 9-15-87, Cl. 350-334.000.

Baehrle, Friedrich; Wulf, Helmut; and Kreeb, Helmut, to Daimler-Benz Aktiengesellschaft. Method for heating a road by means of geothermally fed heating installation as well as a road-heating installation for carrying out the method. 4,693,301, 9-15-87, Cl. 165-45.000.

Baek, Poul E., to P.E. Baek Holding APS. Thermo-freezing container, in particular for a machine for the production of frozen desserts. 4,688,398, 8-25-87, Cl. 62-342.000.

Baer, Hanspeter, to Zellweger Uster, Ltd. Method for transmitting data via a line of an alternating current distribution network, and a transmitter for carrying out the method. 4,642,637, 2-10-87, Cl. 340-870.190.

Baer, James W., to Storage Technology Partners II. Subaperture coarse tracking optical system for optical data storage devices. 4,686,662, 8-11-87, Cl. 369-44.000.

Baer, James W., to Dazar Corporation. Optical system for fast access optical data storage device. 4,712,887, 12-15-87, Cl. 350-484.000.

Baer, John S. Parameter sensors and monitors. 4,667,514, 5-26-87, Cl. 73-386.000.

Baer, Massimo, to Monsanto Company. Tough thermoplastic nylon compositions. 4,707,513, 11-17-87, Cl. 524-504.000.

Baer, Michael T., to Spectra-Physics, Inc. Phase stabilization for mode locked lasers. 4,685,111, 8-4-87, Cl. 372-18.000.

Baer, Ralph H., to Sanders Associates, Inc. Optical decoder. 4,654,700, 3-31-87, Cl. 358-93.000.

Baer, Robert J., to RJB and C Company. Combined book and mirror. 4,637,631, 1-20-87, Cl. 281-15.00R.

Baer, Scott D.; and Glenn, Thomas P., to Harris Corporation. Method of selectively soldering the underside of a substrate having leads. 4,684,055, 8-4-87, Cl. 228-180.100.

Baer, Steven H. Convertible tennis ball container. 4,671,406, 6-9-87, Cl. 206-315.900.

Baer, Thomas M.; and Keirstead, Mark S., to Spectra-Physics, Inc. Nd-YAG laser. 4,653,056, 3-24-87, Cl. 372-27.000.

Baer, Thomas M.; and Keirstead, Mark S., to Spectra-Physics, Inc. Laser diode pumped solid state laser. 4,656,635, 4-7-87, Cl. 372-27.000.

Baer, Thomas M.; and Keirstead, Mark S., to Spectra-Physics, Inc. Laser diode pumped solid state laser with miniaturized quick disconnect laser head. 4,665,529, 5-12-87, Cl. 372-107.000.

Baer, Thomas M.; and Keirstead, Mark S., to Spectra-Physics, Inc. Laser diode pumped solid state laser. 4,701,929, 10-20-87, Cl. 372-71.000.

Baer, Thomas M.: *See—*

Kafka, James D.; and Baer, Thomas M., 4,646,308, Cl. 372-25.000.

Kafka, James D.; Baer, Thomas M.; and Head, David F., 4,685,107, Cl. 372-6.000.

Baerenwald, Philip M.; and Reed, Phillip G., to Kenner Parker Toys Inc. Toy figure with individually posable limbs. 4,680,019, 7-14-87, Cl. 446-378.000.

Baerg, Barry W.: *See—*

Nikkel, Lee F.; Baerg, Barry W.; Ensz, Randy; and Frank, Ray E., 4,646,663, Cl. 111-73.000.

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Baermann, Horst, to Max Baermann, G.m.b.H. Magnetic roll for copy machines and method for manufacturing same. 4,638,281, 1-20-87, Cl. 335-303.000.

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Baetke, Russell E., to Boeing Company, The. Sidewall vent valves for a convertible compartment aircraft. 4,646,993, 3-3-87, Cl. 244-117.00R.

Baetz, Charles N.: *See—*

Dickinson, W. David; and Baetz, Charles N., 4,701,107, Cl. 417-86.000.

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Baeuerle, Dieter. Etching method for bodies of dielectric oxide ceramic. 4,666,552, 5-19-87, Cl. 156-643.000.

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Bafaro, Michael P.; and Lester, Theodore V., to Motorola, Inc. Direct drive scanning CRT display system. 4,675,740, 6-23-87, Cl. 358-243.000.

Bafaro, Michael P.: *See—*

Lester, Theodore V.; and Bafaro, Michael P., 4,652,798, Cl. 315-371.000.

Baffi, Robert A.: *See—*

Wagner, Daniel B.; and Baffi, Robert A., 4,680,275, Cl. 436-518.000.

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Baffreau, Daniel: *See—*

Roca, Yves; Rousset, Jacky; Bouchut, Pierre; Leblanc, Marie-Christine; and Baffreau, Daniel, 4,681,634, Cl. 106-90.000.

Bagaglio, Giancarlo; Assche, Jan V.; and Watts, Arun, to Imperial Chemical Industries plc. Polyol compositions containing mould release agent. 4,678,513, 7-7-87, Cl. 106-38.220.

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Becker, Amy J.; Bagan, James E.; and Medri, Mario W., 4,673,578, Cl. 426-93.000.

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Bagby, Robert J., to Ametek, Inc. Self-contained optical fibre switch. 4,674,831, 6-23-87, Cl. 350-96.200.

Bagdal, Karl T., to Armco Inc. Optical scanning system for laser treatment of electrical steel and the like. 4,662,708, 5-5-87, Cl. 350-6.900.

Bagdy, Daniel: *See—*

Bajusz, Sandor; Szell nee Hasenohrl, Erzsbet; Bagdy, Daniel; Barabas, Eva; Dioszegi, Mariann; Fittler, Zsuzsa; Jozsa, Ferencz; Horvath, Gyula; and Tomori nee Jozst, Eva, 4,703,036, Cl. 514-18.000.

Bage, Jeffery T., to American Motors Corporation. Speaker seal. 4,653,607, 3-31-87, Cl. 181-171.000.

Bagepalli, Bharat S.; Imam, Imdad; and Howell, Edward K., to General Electric Company. High speed contact driver. 4,656,445, 4-7-87, Cl. 335-195.000.

Bagga, Madan M.; and Bull, Christopher H., to Ciba-Geigy Corporation. Solid solution of amine and polymerized phenol as epoxy resin cure accelerator. 4,659,779, 4-21-87, Cl. 525-118.000.

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Baggen, Constant P. M. J., to U.S. Philips Corporation. Decoder for the decoding of code words which are blockwise protected against the occurrence of a plurality of symbol errors within a block by means of a reed-solomon code, and reading device for optically readable record carriers. 4,642,808, 2-10-87, Cl. 371-39.000.

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Suzuki, Tadao; Sako, Yoichiro; Furukawa, Shunske; Furuya, Tsuneo; and Baggen, Constant P. M. J., 4,680,764, Cl. 371-40.000.

Baggett, David: *See—*

Billiet, Colin T.; Baggett, David; and Fielding, Robert M., 4,696,687, Cl. 55-316.000.

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Baggett, Jay W. Pressure differential plunger. 4,685,517, 8-11-87, Cl. 166-105.000.

Baggi, Roland: *See—*

Gerber, Urs; Gerber, Erich; Hofer, Peter; Fischer, Erwin; Lusuardi, Werther; Gysel, Walter; Baggi, Roland; Rogg, Eduard; and Gut, Karl, 4,665,794, Cl. 89-36.020.

Baggiani, Giuseppe. Transformable low drawing-room table. 4,677,919, 7-7-87, Cl. 108-63.000.

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Baggio, Giorgio: *See—*

Pozzobon, Alessandro; and Baggio, Giorgio, 4,680,878, Cl. 36-117.000.

Sartor, Mariano; Baggio, Giorgio; and Baratto, Mirko, 4,667,424, Cl. 36-120.000.

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Baghdadchi, Jamil: *See—*

Hinney, Harry R.; and Baghdadchi, Jamil, 4,658,062, Cl. 564-305.000.

Baghdadi, George L. Yarn shrinking method. 4,658,483, 4-21-87, Cl. 28-219.000.

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Bagheri, Parichehr. Santur. 4,706,539, 11-17-87, Cl. 84-284.000.

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Baginski, Richard M.; Dems, Bernard C.; Ross, Linda A.; and Soule, Ralph H., Jr., to Procter & Gamble Company, The. Controlled sudsing detergent compositions. 4,652,392, 3-24-87, Cl. 252-109.000.

Baglee, David A.: *See—*

Malhi, Satwinder; and Baglee, David A., 4,641,173, Cl. 357-51.000.

Bagley, Brian G., to AT&T Bell Laboratories. Information transmission using dispersive optical channels. 4,644,522, 2-17-87, Cl. 370-4.000.

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Baglin, Michel, to Simmonds S.A. Method of making a threaded insert. 4,669,141, 6-2-87, Cl. 10-86.00A.

Baglioni, Alessandro, to Medosan Industrie Biochimiche Riunite S.p.A. 2-(ethylene-thio methyl furanyl)amino thiazole derivatives having acid secretion inhibiting activity. 4,652,575, 3-24-87, Cl. 514-370.000.

Baglioni, Alessandro, to Medosan Industrie Biochimiche Riunite S.p.A. Amide derivatives of 2-(p-aminobenzyl)-butyric acid and esters thereof having hypolipidemizing activity. 4,666,936, 5-19-87, Cl. 514-427.000.

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Bagnall, Arthur, to Spencer Wright Industries, Inc. Tufting machine needle bar drive. 4,653,413, 3-31-87, Cl. 112-80.410.

Bagnall, Arthur, to Spencer Wright Industries, Inc. Drive for a tufting machine. 4,669,403, 6-2-87, Cl. 112-80.400.

Bagnall, Paul J. H.; and Whiteley, Norman, to Peerless Plastics Packaging Limited. Method of manufacturing a molded plastics article incorporating a blank of sheet. 4,710,338, 12-1-87, Cl. 264-509.000.

Bagnall, Peter J.: *See—*

Ul Haq, Mohammed E.; Bagnall, Peter J.; and Reed, John A., 4,667,311, Cl. 365-182.000.

Bagolin, Alain; and Gay, Joel, to Frimair S.A. Dry cleaning machine. 4,694,588, 9-22-87, Cl. 34-77.000.

Baguena, Michel, to S.E.M.T., S.A. Two-fuel injector apparatus for an internal combustion engine. 4,700,672, 10-20-87, Cl. 123-299.000.

Bagus, Brian M., to Marmon Group, Inc., The. Control circuit for shaded-pole motor. 4,658,692, 4-21-87, Cl. 84-1.240.

Bagwell, Charles, Jr., to Howden Coloney, Inc. Strap for linked container article carrier. 4,693,167, 9-15-87, Cl. 89-35.010.

Bagwell, Maury L., to Neal Manufacturing Company, Inc. Pumping system for mobile protective coating spray apparatus and other applications. 4,684,062, 8-4-87, Cl. 239-1.000.

Bahl, Inder G.: *See—*

Landis, Richard C.; Griffin, Edward L.; and Bahl, Inder G., 4,647,878, Cl. 333-115.000.

Bahl, Inder J., to ITT Gallium Arsenide Technology Center, a division of ITT Corporation. Microwave circulator comprising a plurality of directional couplers connected together by isolation amplifiers. 4,679,010, 7-7-87, Cl. 333-109.000.

Bahl, Inder J.; and Griffin, Edward L., to ITT Gallium Arsenide Technology Center. Semiconductor chip housing. 4,701,573, 10-20-87, Cl. 174-52.0FP.

Bahl, Surinder K., Canterino, Peter J.; and Shaw, Richard G., to Mobil Oil Corporation. Films of LLDPE, PP and EPR having improved stiffness, tear and impact strength. 4,692,496, 9-8-87, Cl. 525-240.000.

Bahm, Glenn A. Collapsible flow control easel. 4,699,346, 10-13-87, Cl. 248-454.000.

Bahn, Itsuki; and Okada, Hideo, to Secoh Geiken Inc. Rotation detecting apparatus. 4,710,683, 12-1-87, Cl. 318-254.000.

Bahov, Dinko A.; and Bahov, Hristo A., to NPK "Textilno Maschinostroene". Drawing apparatus. 4,680,833, 7-21-87, Cl. 19-244.000.

Bahov, Dinko A.; and Bahov, Hristo A., to NPK "Textilno Maschinostroene" . Vortex air nozzle for yarn spinning from staple fibers. 4,689,948, 9-1-87, Cl. 57-328.000.

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Bahov, Dinko A.; and Bahov, Hristo A., 4,680,833, Cl. 19-244.000.

Bahov, Dinko A.; and Bahov, Hristo A., 4,689,948, Cl. 57-328.000.

Bahr, Melford J., to MGS Machine Corporation. Pick-and-place glue applicator. 4,696,715, 9-29-87, Cl. 156-568.000.

Bahr, Theodor; Thumm, Helmut; and Musselmann, Walter, to J. M. Voith GmbH. Method and device for emptying suspension from a pulper. 4,634,059, 1-6-87, Cl. 241-46.00B.

Bahr, Thomas; and Michel, Peter, to Hauni-Werke Korber & Co. KG. Method and apparatus for regulating the resistance of filter rod sections to the flow of gases therethrough. 4,676,769, 6-30-87, Cl. 493-4.000.

Bahrle, Dieter; Schwerdt, Friedrich; and Stehling, Jurgen H., to International Business Machines Corporation. Process for producing printed circuits. 4,705,592, 11-10-87, Cl. 156-630.000.

Bahrle, Peter; and Lange, Heinz, to U.S. Philips Corporation. Circuit arrangement for generating clamping pulses. 4,689,680, 8-25-87, Cl. 358-172.000.

Bahrmann, Helmut; Cornils, Boy; Lipps, Wolfgang; Lappe, Peter; and Springer, Helmut, to Ruhrchemie Aktiengesellschaft. Quaternary ammonium salts of sulfonated triarylphosphines and process for the production thereof. 4,673,535, 6-16-87, Cl. 200-501.150.

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Bahrmann, Helmut: *See—*
  Konkol, Werner; Bahrmann, Helmut; Dambkes, Georg; Gick, Wilhelm; Wiebus, Ernst; and Bach, Hanswilhelm, 4,711,648, Cl. 55-73.000.

Bai, Monty W.; Titus, John D.; and Farace, Louis P., to Motorola, Inc. Microbeam sensor contact damper. 4,673,777, 6-16-87, Cl. 200-61.45R.

Bai, Monty W., to Motorola, Inc. Apparatus and method of safe and arming munitions. 4,686,885, 8-18-87, Cl. 89-6.500.

Bai, Yu-Sheng: *See—*
  Mossberg, Thomas W.; Bai, Yu-Sheng; Babbitt, William R.; and Carlson, Nils W., 4,670,854, Cl. 364-822.000.

Baier, Alfred S. Pipe stem replacement kit. 4,712,569, 12-15-87, Cl. 131-328.000.

Baier, Manfred, to Boehringer Mannheim GmbH. Heterogeneous immunoassay and reagent therefore. 4,639,425, 1-27-87, Cl. 436-518.000.

Baier, Manfred; Jering, Helmut; and Klose, Sigmar, to Boehringer Mannheim GmbH. Immune-chemical measurement process for haptens and proteins. 4,670,383, 6-2-87, Cl. 435-7.000.

Baier, Paul. Roll shutter for hinged-casement type roof windows. 4,691,753, 9-8-87, Cl. 160-32.000.

Baier, Paul W.; and Rausch, Peter, to Siemens Aktiengesellschaft. Wirelessly functioning signal transmission system. 4,716,574, 12-29-87, Cl. 375-1.000.

Baier, Steven M.; Cirillo, Nicholas C., Jr.; Hanka, Steven A.; and Shur, Michael S., to Honeywell Inc. Gated transmission line model structure for characterization of field-effect transistors. 4,638,341, 1-20-87, Cl. 357-15.000.

Baier, Walter F.: *See—*
  Drago, Gary A.; Baier, Walter F.; Lee, Francis C.; Mills, Ross N.; and Mossbrugger, Horst G., 4,698,644, Cl. 346-140.00R.

Baiera, Vincent A.: *See—*
  Loomis, Bernard; Baiera, Vincent A.; Caldwell, Bennie J.; and Strauss, Gary J., 4,655,721, Cl. 446-219.000.

Baigent Maurice G., to AE PLC. Structural bearing. 4,695,169, 9-22-87, Cl. 384-36.000.

Baik, Haeng J., to Gold Star Co., Ltd. 100 Volt/220 volt compatible electromagnetic induction heating cooker. 4,687,896, 8-18-87, Cl. 219-10.770.

Baik, Thorten: *See—*
  Kreft, Hans-Diedrich; Jenning, Michael; Mackenthun, Holger, Baik, Thorten; and Niznik, Thomas, 4,698,996, Cl. 73-1.00J.

Baika, Toyokazu; and Oonaka, Hidemi, to Toyota Jidosha Kabushiki Kaisha. Lubricating mechanism for a rotary machine. 4,712,442, 12-15-87, Cl. 74-467.000.

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  Oonaka, Hidemi; Baika, Toyokazu; Shibata, Yoshiaki; Horii, Kingo; Sato, Yasushi; and Akiyama, Tomojiro, 4,656,992, Cl. 123-559.000.

Baile, Gnaneshwar R.; Crompton, Jane A.; and McMahon, Daniel F., to Dow Corning Corporation. Process for preparation of cyclopolydiorganosiloxanes. 4,689,420, 8-25-87, Cl. 556-460.000.

Bailey, Alan S.; and Clayson, Colin F., to Johnson & Johnson. Cotton patterned fabric. 4,647,490, 3-3-87, Cl. 428-131.000.

Bailey, Ben J.: *See—*
  Bailey, Roy E.; and Bailey, Ben J., 4,644,830, Cl. 81-58.200.

Bailey, Bobby J., to Akzona Incorporated. Indigo-dyeable polyester fibers and pretreatment of polyester to produce same. 4,699,627, 10-13-87, Cl. 8-602.000.

Bailey, Bryan K.: *See—*
  Gattu, Narahari; and Bailey, Bryan K., 4,688,690, Cl. 212-268.000.

Bailey, Carl J., to Tandem Computers Incorporated. Parallel grounding scheme. 4,703,195, 10-27-87, Cl. 307-147.000.

Bailey, Earl D. Portable machining turntable. 4,678,381, 7-7-87, Cl. 409-221.000.

Bailey, Edward J., to Cincinnati Milacron Inc. Method for locating a precision robotic base component. 4,642,212, 2-10-87, Cl. 264-262.000.

Bailey, Frank C.: *See—*
  Law, Kock-Yee; and Bailey, Frank C., 4,644,082, Cl. 564-307.000.

Bailey, Frederick E., Jr.; Jorgenson, Michael W.; and Whitman, Robert D., to Union Carbide Corporation. Process for producing polyurethane foams using foam modifiers. 4,686,240, 8-11-87, Cl. 521-103.000.

Bailey, Frederick E., Jr.; and Argento, Benny J., to Union Carbide Corporation. Reduced reactivity polyols as foam controllers in producing polyurethanes foams. 4,701,474, 10-20-87, Cl. 521-137.000.

Bailey, George, to Hekimian Laboratories, Inc. Balanced mixer. 4,710,890, 12-1-87, Cl. 364-703.000.

Bailey, George W.; and Swan, George A., to Exxon Research & Engineering Co. Nickel adsorbent for sulfur removal from hydrocarbon feeds. 4,634,515, 1-6-87, Cl. 208-91.000.

Bailey, James R.; and Long, Eric L., to Switchcraft, Inc. Fiber optic connector and method of assembly. 4,681,398, 7-21-87, Cl. 350-96.200.

Bailey, James R.; and Basov, Emma, to Switchcraft, Inc. Stacked electrical jacks. 4,695,116, 9-22-87, Cl. 439-188.000.

Bailey, James W.: *See—*
  Bement, Laurence J.; and Bailey, James W., 4,708,280, Cl. 228-107.000.

Bailey, Joe B., Jr., to Shakespeare Company. Reel mount for a fishing rod. 4,696,123, 9-29-87, Cl. 43-22.000.

Bailey, John C., to Eveready Battery Company. Nonaqueous cell employing a cathode-electrolyte solution containing a boron-containing additive. 4,654,280, 3-31-87, Cl. 429-194.000.

Bailey, John S.: *See—*
  Tullis, Barclay J.; Bailey, John S.; Gunawardena, D. R.; and Kaempf, Ulrich, 4,705,444, Cl. 414-226.000.

Bailey, John W.; Hayter, Paul A.; Mason, Brian R.; and Turner, Graham N., to Mars, Inc. Printed circuit board fault location system. 4,714,875, 12-22-87, Cl. 324-73.0PC.

Bailey, Kristy M.: *See—*
  Cramm, Jeffrey R.; and Bailey, Kristy M., 4,698,404, Cl. 526-204.000.

Bailey, Lorraine F.; and Bennett, Richard J., to Corning Glass Works. Bonding glass-ceramic dental products. 4,710,217, 12-1-87, Cl. 65-31.000.

Bailey, Louis G.: *See—*
  Harper, James G.; and Bailey, Louis G., 4,636,634, Cl. 250-223.00R.
  Harper, James G.; Bailey, Louis G.; McJohnson, Robert B.; Rajagopal, Ganesh; and Walker, Don R., 4,680,811, Cl. 455-617.000.

Bailey, Norman R.: *See—*
  Zimmermann, Klaus; Thomas, Michael J.; and Bailey, Norman R., 4,635,498, Cl. 74-501.00R.

Bailey, Paul F., Jr. Ophthalmological method and instrument for implantation of posterior chamber intraocular lens. 4,634,423, 1-6-87, Cl. 604-51.000.

Bailey, Peter, to Pex (Holdings) Limited. Transfer mechanism for transferring hosiery articles. 4,643,340, 2-17-87, Cl. 223-40.000.

Bailey, Peter D., to Texscan Corporation. Radio frequency chokes having two windings and means for dampening parasitic resonances. 4,641,115, 2-3-87, Cl. 333-181.000.

Bailey, Philip C.; and Kitchin, Vaughan N., to English Electric Valve Company Limited. Television cameras. 4,646,140, 2-24-87, Cl. 358-50.000.

Bailey, Philip E.; Pickett, Gordon E.; Luttinger, Manfred; and Umeda, Takashi, to Idemitsu Petrochemical Co., Ltd. Flame retardant polyester resin composition. 4,713,407, 12-15-87, Cl. 524-109.000.

Bailey, R. Roby, Jr.: *See—*
  Lessig, William R., III; Wheeler, Dale K.; Bailey, R. Roby, Jr.; and Smith, Stephen W., 4,649,245, Cl. 200-157.000.

Bailey, Randal N.; and Crews, Purvis J. Infant seat for automobiles. 4,690,455, 9-1-87, Cl. 297-238.000.

Bailey, Richard B.; Joshi, Dilip K.; Michaels, Stephen L.; and Wisdom, Richard A., to Engenics, Inc. Production of lactic acid by continuous fermentation using an inexpensive raw material and a simplified method of lactic acid purification. 4,698,303, 10-6-87, Cl. 435-139.000.

Bailey, Rick S.; and Holly, Arthur C., to Board of Regents The University of Texas System. Sampling average phase meter. 4,712,060, 12-8-87, Cl. 324-83.00R.

Bailey, Robert L.; and Howell, Kenneth L., to Minpro Supply, Incorporated. Prefabricated convertible fireplace. 4,700,687, 10-20-87, Cl. 126-121.000.

Bailey, Roy E.; and Bailey, Ben J. Ratchet wrench. 4,644,830, 2-24-87, Cl. 81-58.200.

Bailey, Samuel G. Talking marionette with theatre. 4,690,655, 9-1-87, Cl. 446-84.000.

Bailey, Stephen P., to Ontario Store Fixtures Inc. Adjustable valance canopy bracket. 4,667,914, 5-26-87, Cl. 248-286.000.

Bailey, Terry R., to Minnesota Mining and Manufacturing Company. High-angularity retroreflective sheeting and method for manufacture. 4,648,932, 3-10-87, Cl. 156-276.000.

Bailey, Terry R.; Kult, Roger R.; and Belisle, Louis C., to Minnesota Mining and Manufacturing Company. Transparent multi-layer cover film for retroreflective sheeting. 4,663,213, 5-5-87, Cl. 428-204.000.

Bailey, Terry R.; and Haunschild, Dale H., to Minnesota Mining and Manufacturing Company. Enclosed-lens retroreflective sheeting having tough, weather-resistant, transparent cover film. 4,664,966, 5-12-87, Cl. 428-203.000.

Bailey, Thomas F.; Campbell, John E.; and Shah, Nehal M., to A-Z International Tool Company. Well string cutting apparatus. 4,646,826, 3-3-87, Cl. 166-55.300.

Bailey, Thomas F.; and Shah, Nehal M., to A-Z International Tool Company. Casing patch seal. 4,660,863, 4-28-87, Cl. 285-145.000.

Bailey, Wallace O., to Ford Motor Company. Motor vehicle fuel tank with unitary fuel reservoir. 4,638,836, 1-27-87, Cl. 137-574.000.

Bailey, Wallace O., to Ford Motor Company. Motor vehicle fuel tank with unitary fuel reservoir. 4,708,170, 11-24-87, Cl. 137-574.000.

Bailey, Wilber H., to Camino Laboratories, Inc. Output circuit for physiological measuring instruments. 4,705,047, 11-10-87, Cl. 128-672.000.

Baillet, Raymond, to Ugine Gueugnon S.A. Double-wall welded tube. 4,674,542, 6-23-87, Cl. 138-148.000.

Bailleul, Gilles; and Sannes, Tjerk, to U.S. Philips Corporation. Screened cable insulated by means of mineral insulation material and method of manufacturing such a cable. 4,679,317, 7-14-87, Cl. 29-828.000.

Bailleul, Gilles, to U.S. Philips Corporation. Armored cable having mineral insulation. 4,689,443, 8-25-87, Cl. 174-102.00P.

Bailleul, Jean F.: *See—*

Brun, Chalres G. H.; Bailleul, Jean F.; Lecendre, Fuddy; and Coolen, Franueine. 4,663,956, Cl. 72-167.000.

Baillie, Lloyd A., to Atlantic Richfield Company. Method for reducing attrition of particulate matter in a chemical conversion process. 4,670,410, 6-2-87, Cl. 502-41.000.

Baillie, Lloyd A., to Atlantic Richfield Company. Steering system for tractor-trailer units. 4,702,488, 10-27-87, Cl. 280-426.000.

Baillie, William R.; Macias, Jorge, and Dressendorfer, Michael, to Russ Bassett Company. Cartridge cabinet drawer. 4,715,669, 12-29-87, Cl. 312-12.000.

Bailly, Francois P., and Bourgoin, Alain, to Societe Anonyme de Telecommunications. Electronic feeding bridge for a space division switching network. 4,682,355, 7-21-87, Cl. 379-346.000.

Bailly, Jean C., to BP Chemicals Limited. Catalysts for the polymerization and copolymerization of propylene and polymerization processes using these catalysts. 4,673,662, 6-16-87, Cl. 502-115.000.

Bailly-Salins, Rene, to Commissariat a l'Energie Atomique. Velocity interferometer with continuously variable sensitivity. 4,666,296, 5-19-87, Cl. 356-28.500.

Bain, Brian M.: *See—*

Phillipps, Gordon H.; Bain, Brian M.; and Laing, Stuart B., 4,650,610, Cl. 260-397.100.

Phillipps, Gordon H.; Williamson, Christopher; Steeples, Ian P.; Bain, Brian M., and Borella, Raymond A., 4,650,800, Cl. 514-259.000.

Bain, James D.; and Lasley, Billy L. Free radical based biochemical method for detecting substances in fluids. 4,652,532, 3-24-87, Cl. 436-501.000.

Bain, James M.: *See—*

Vanderpool, James L.; and Bain, James M., 4,680,078, Cl. 156-352.000.

Bain, John H., Jr.: *See—*

Gentry, Gene E.; and Bain, John H., Jr., 4,673,934, Cl. 342-8.000.

Bain, Mitchell B.: *See—*

Gang, Joseph M.; and Bain, Mitchell B., 4,639,921, Cl. 371-53.000.

Bainbridge, Gary R.; McCauley, Lewis D.; and Sullivan, Jeffrey R., to McGard, Inc. Operating nut for fire hydrant. 4,633,896, 1-6-87, Cl. 137-296.000.

Bainbridge, Gary R., to McGard, Inc. Locknut key and mounting structure therefor. 4,664,000, 5-12-87, Cl. 81-451.000.

Baines, Alfred H. P., deceased (by Ridley, Dennis James, executor); Campetti, Gianfranco; Baumgartl, Walter A.; and Nusse, Klaus J. R., to Heinemann Electric (South Africa) Limited. Circuit breaker. 4,644,312, 2-17-87, Cl. 335-236.000.

Baines, John H.: *See—*

Brink, Satya S.; Baines, John H.; and Poulin, Suzanne C. M., 4,715,628, Cl. 292-19.000.

Baines, Peter J., to Standard Telephones and Cables Public Limited Company. Telephone hook switch. 4,692,940, 9-8-87, Cl. 379-424.000.

Baines, Roger F., to Johnson Electric Industrial Manufactory Limited. Solderless electrical connection in a motor. 4,705,972, 11-10-87, Cl. 310-71.000.

Bains, William R., to Ford Aerospace & Communications Corp. Pneumatically actuated ram air steering system for a guided missile. 4,685,639, 8-11-87, Cl. 244-3.220.

Bainton, Cedric R. Laryngoscope for use with pharyngeal obstructions. 4,705,024, 11-10-87, Cl. 128-11.000.

Bair, Keith A.: *See—*

Chen, Fu; and Bair, Keith A., 4,659,480, Cl. 210-697.000.

Chen, Fu; and Bair, Keith A., 4,708,815, Cl. 252-181.000.

Bair, Michael L., to Black Gold Pump & Supply, Inc. Rod coupling with mounted guide. 4,668,117, 5-26-87, Cl. 403-266.000.

Bair, Thomas I., to Du Pont de Nemours, E. I., and Company. Copoly(p-phenylene terephthalamide/2,6-naphthalamide)aramid yarn. 4,698,414, 10-6-87, Cl. 528-339.000.

Baird Corporation: *See—*

Brennan, Thomas M.; and Glasheen, W. Michael, 4,658,139, Cl. 250-330.000.

Croteau, Francis R., 4,694,398, Cl. 364-414.000.

Eldering, Herman G., 4,658,147, Cl. 250-566.000.

Glasheen, W. Michael, 4,675,920, Cl. 2-427.000.

Grandy, Mark E., 4,641,968, Cl. 356-313.000.

Baird, David B.; Baker, Ronald; Fishwick, Brian R.; and McClelland, Robert D., to Imperial Chemical Industries PLC. Process for manufacturing heterocyclic compounds. 4,658,040, 4-14-87, Cl. 549-68.000.

Baird, David W.: *See—*

Veres, James E.; Stein, James B.; Beauchamp, Robert W.; Kimmens, Harold R.; Baird, David W.; Roman, Michael J.; Therrien, David G.; and Doyle, John J., 4,654,783, Cl. 364-200.000.

Baird, Donald H.; and Haugsjaa, Paul O., to GTE Laboratories Incorporated. Staircase ramp voltage generating apparatus with energy reuse. 4,654,542, 3-31-87, Cl. 307-227.000.

Baird, Donald H.; and McDonough, Martin S., deceased (by McDonough, Carol C., executrix), to GTE Laboratories Incorporated. Method of producing thin film electroluminescent structures. 4,675,092, 6-23-87, Cl. 204-192.260.

Baird, Elldon: *See—*

Overman, Patrick, Sr.; and Baird, Elldon, 4,694,516, Cl. 5-93.00R.

Baird, Eric A. Toy parachute. 4,705,239, 11-10-87, Cl. 244-155.00R.

Baird, J. Andrew, to Salk Institute for Biological Studies, The. Inhibition of aldosterone secretion. 4,643,989, 2-17-87, Cl. 514-12.000.

Baird, J. Mark: *See—*

Barnett, Larry R.; and Baird, J. Mark, 4,668,894, Cl. 315-4.000.

Baird, James R.; and Kabay, Steve, to JRB Company, Inc. Hydraulically or manually actuated implement coupler for front end loaders. 4,708,579, 11-24-87, Cl. 414-723.000.

Baird, John K.; and Sandford, Paul A., to Merck & Co., Inc. Dispersible xanthan gum. 4,654,086, 3-31-87, Cl. 106-206.000.

Baird, John S. Raising and lowering aid for trolling motors. 4,634,390, 1-6-87, Cl. 440-63.000.

Baird, Malcolm H.: *See—*

Nirdosh, Inderjit; Baird, Malcolm H.; and Muthuswami, Sirugamani V., 4,654,200, Cl. 423-2.000.

Baird Manufacturing Company: *See—*

Looney, Raymond H., 4,640,304, Cl. 137-202.000.

Baird, Peter K.: *See—*

Leoncavallo, Richard A.; Baird, Peter K.; Mehra, Ravinder C.; and Rajguru, Sharad, 4,689,147, Cl. 210-232.000.

Baird, Suzanne K.; Benignus, Douglas M.; Busch, Dennis G.; Jeffries, Astrid P.; Parker, Thomas S.; and Vossman, Robert A., to International Business Machines Corporation. Data communication system with terminal for displaying the coded stream of data being transmitted. 4,672,574, 6-9-87, Cl. 364-900.000.

Baird, William C., Jr., to Exxon Research and Engineering Company. Reforming with polymetallic catalysts. 4,701,255, 10-20-87, Cl. 208-139.000.

Baisch, Friedhelm: *See—*

Birk, Josef; Baisch, Friedhelm; and Borger, Heinz J., 4,691,695, Cl. 128-38.000.

Hohlweck, Hans; Plath, Gernold; and Baisch, Friedhelm, 4,635,198, Cl. 364-414.000.

Baisch, Herbert: *See—*

Handler, Milton E.; and Baisch, Herbert, 4,711,183, Cl. 108-111.000.

Baisch, Joachim: *See—*

Andrusch, Georg; Baisch, Joachim; Barsuhn, Horst; Wernicke, Friedrich C.; and Wiedmann, Siegfried K., 4,713,814, Cl. 371-21.000.

Baitcher, Neal I., and Brennan, Robert M. Loudspeaker diaphragm. 4,646,874, 3-3-87, Cl. 181-169.000.

Baitinger, Hartmut: *See—*

Sturtz, Gunter; Jocher, Reiner; and Baitinger, Hartmut, 4,644,447, Cl. 362-61.000.

Baitinger, Stacey A.; Brothers, Robert C.; and Dishart, Kenneth T., to Du Pont de Nemours, E. I., and Company. Foam laminate structures. 4,645,710, 2-24-87, Cl. 428-317.700.

Baits, Stephen S.; and Reynolds, Richard W., to Sundstrand Corporation. Differential transmission mechanism for a constant speed drive. 4,679,462, 7-14-87, Cl. 74-687.000.

Baity, Donald N.; Schwandt, Gregory J.; and Kidwell, Charles E., to General Motors Corporation. Illuminated rocker switch assembly. 4,710,602, 12-1-87, Cl. 200-315.000.

Baity, Frederick W.: *See—*

Owens, Thomas L.; Baity, Frederick W.; Hoffman, Daniel J.; and Whealton, John H., 4,694,264, Cl. 333-34.000.

Baitz, Guenter; and Dobring, Wilfried, to Nixdorf Computer AG. Money box arrangement. 4,637,326, 1-20-87, Cl. 109-49.000.

Baitz, Guenter; and Dobring, Wilfried, to Nixdorf Computer AG. Insert for a money drawer. 4,638,908, 1-27-87, Cl. 206-0.800.

Baitz, Guenter; and Dobring, Wilfried, to Nixdorf Computer AG. Cashbox for a cash register. 4,642,449, 2-10-87, Cl. 235-22.000.

Baitz, Guenter: *See—*

Ihlenburg, Rainer; Baitz, Guenter; and Nixdorf, Heinz, 4,698,709, Cl. 360-104.000.

BAJ Limited: *See—*

Papworth, Charles D.; Pole, Andrew L.; Brake, Arthur L.; and Dimmock, Ivan H., 4,659,254, Cl. 405-205.000.

Bajaj, Ram, to Westinghouse Electric Corp. Method for producing ceramic articles of increased fracture toughness. 4,707,312, 11-17-87, Cl. 264-43.000.

Bajars, Laimonis; and Croce, Louis J., to Petro-Tex Chemical Corporation. Catalytic oxidative dehydrogenation process. 4,658,074, 4-14-87, Cl. 585-380.000.

Bajgert, Teddy A.; Bunker, Neall H.; Cochran, James L.; Duane, Willis J.; and Mojica, Arturo, to International Business Machines Corporation. Continuous form feeder for a reproducing machine and process. 4,714,946, 12-22-87, Cl. 355-75.000.

Bajgrowicz, Edward J.: *See—*

Heckaman, Douglas E.; Higman, Roger H.; Frisco, Jeffrey A.; and Bajgrowicz, Edward J., 4,695,810, Cl. 333-1.000.

Bajka, Imre; and Furrer, Robert, to Siemens-Albis AG. Apparatus for removing solder from the drill holes of empty printed circuit boards coated with solder. 4,703,714, 11-3-87, Cl. 118-57.000.

Bajka, Peter. Diverter valve assembly and method. 4,635,674, 1-13-87, Cl. 137-246.220.

Bajka, Peter. Valve actuator with manual disengagement assembly. 4,647,007, 3-3-87, Cl. 251-129.030.

Bajkay, Arpad: *See—*
  Erzsebet, Almasine B.; Almasi, Istvan; Toth, Arpad; Benke, Istvan; and Bajkay, Arpad, 4,674,900, Cl. 374-131.000.

Bajor, George, to Harris Corporation. Method for making a programmable vertical silicide fuse. 4,670,970, 6-9-87, Cl. 29-584.000.

Bajpai, Praphulla K., to University of Dayton. Surgical cements. 4,668,295, 5-26-87, Cl. 106-85.000.

Bajulaz, Roger, to Reduto S.A. Mechanical reducer. 4,699,023, 10-13-87, Cl. 74-804.000.

Bajusz, Sandor; Szell nee Hasenohrl, Erzsbet; Bagdy, Daniel; Barabas, Eva; Dioszegi, Mariann; Fittler, Zsuzsa; Jozsa, Ferencz; Horvath, Gyula; and Tomori nee Jozst, Eva, to Richter Gedeon Vegyeszeti Gyar RT. Peptide-aldehydes, process for the preparation thereof and pharmaceutical compositions containing the same. 4,703,036, 10-27-87, Cl. 514-18.000.

Baka, Kathleen J.: *See—*
  Kozlowski, Thomas A.; Lindstrom, Robert O.; Loughrin, Thomas D.; and Baka, Kathleen J., 4,714,181, Cl. 222-480.000.

Bakalar, Jerome, to Neolens, Inc. Injection molding equipment and method. 4,664,854, 5-12-87, Cl. 264-2.200.

Bakalov, Nikolay G.; Penev, Penyo I.; Ivanov, Ivan K.; Velev, Velyo T.; Savov, Peter H.; and Vulchev, Alexander Y., to Npp Po Elektrotermia. Seal for an electrode hole in an electric arc furnace. 4,703,493, 10-27-87, Cl. 373-95.000.

Bakar, Shamsul, to Colgate-Palmolive Company. Antiplaque oral composition. 4,666,517, 5-19-87, Cl. 106-35.000.

Bakas, Steve T.; and Cole, Steven W., to UOP Inc. Catalytic composition for the isomerization of paraffinic hydrocarbons. 4,665,272, 5-12-87, Cl. 585-739.000.

Bakay, Arpad; Bergmann, Gyorgy; Hivessy, Geza; and Szentgyorgyi, Istvan, to Energiagazdalkodasi Intezet. Multi-stage heat pump of the compressor-type operating with a solution. 4,688,397, 8-25-87, Cl. 62-335.000.

Bakdahl, Samuel. Worm drive clips. 4,686,747, 8-18-87, Cl. 24-274.00R.

Bakdos, Gyorgy: *See—*
  Czeiler, Andras; Lukacs, Sandor; Palotai, Tamas; Lakatos, Tibor; and Bakdos, Gyorgy, 4,689,172, Cl. 252-301.360.

Bakelite Xylonite Limited: *See—*
  Leese, Leonard; Nicholas, Donald C.; Smith, Gordon C. R.; and Stokes, Geoffrey F., 4,652,409, Cl. 264-22.000.

Baker, Alan J. Method of averaging a plurality of measured modulo values. 4,686,510, 8-11-87, Cl. 340-347.00P.

Baker, Alan J. Method and apparatus for measuring angular displacement. 4,691,192, 9-1-87, Cl. 340-347.00P.

Baker, Alan J. Angle transducer storing an integral number of revolutions' worth of rotor-pole transition data in memory. 4,697,168, 9-29-87, Cl. 340-347.00P.

Baker, Andrew R.: *See—*
  Day, Roger A.; Tommis, Norman; and Baker, Andrew R., 4,708,104, Cl. 123-193.00P.

Baker, Anna M., to Baker, Kenneth R.; and Derosier, Paul G. Pick-up device for lawn debris. 4,693,504, 9-15-87, Cl. 294-1.100.

Baker, Anthony P., to ITT Defense Communications, a division of ITT Corporation. Optical interface apparatus. 4,711,529, 12-8-87, Cl. 350-331.00R.

Baker, Arleigh B., to Werkzeugmaschinenfabrik Oerlikon-Buhrle AG. Adjustable range proximity fuze. 4,651,647, 3-24-87, Cl. 102-213.000.

Baker, Bart M.: *See—*
  Baker, Stanley Z.; Baker, Benjamin H.; and Baker, Bart M., 4,660,320, Cl. 43-131.000.

Baker, Benjamin H.: *See—*
  Baker, Stanley Z.; Baker, Benjamin H.; and Baker, Bart M., 4,660,320, Cl. 43-131.000.

Baker, Bruce G.; Clark, Neville J.; McArthur, Hamish; and Summerville, Edward, to Flinders University of South Australia, The. Catalysts. 4,666,880, 5-19-87, Cl. 502-302.000.

Baker, Bruce R.; Creech, Richard D.; and Smith, Kenneth W. System for method for producing synthetic plural word messages. 4,661,916, 4-28-87, Cl. 364-513.500.

Baker CAC: *See—*
  Ali, Syed Z., 4,645,179, Cl. 251-327.000.
  Gaspard, Preston T., 4,654,537, Cl. 290-54.000.

Baker, Charles D.; Brimhall, Owen D.; and Galway, Charles R., to University of Utah Research Institute. Artificial sphincter apparatus and method. 4,705,518, 11-10-87, Cl. 623-14.000.

Baker, Christopher J.; and Kernohan, Craig D. Furrow opener operating apparatus. 4,648,466, 3-10-87, Cl. 172-260.500.

Baker, Daniel C., to Shell Oil Company. Process for the removal of iron cyanide complex or complexes from an aqueous solution. 4,654,148, 3-31-87, Cl. 210-766.000.

Baker, Daniel C., to Shell Oil Company. HCN and iron cyanide complex removal. 4,693,873, 9-15-87, Cl. 423-215.500.

Baker, Daniel G., to Tektronix, Inc. Digital phase shifter. 4,677,395, 6-30-87, Cl. 331-25.000.

Baker, Daniel G.; and Ainsworth, Kenneth M., to Tektronix, Inc. Measurement of SC/H phase using a subcarrier time mark generator and a calibrated phase shifter. 4,680,620, 7-14-87, Cl. 358-10.000.

Baker, Daniel G.; and Feisel, Magaret A., to Tektronix, Inc. Method and apparatus for variable phasing of periodic signals. 4,680,621, 7-14-87, Cl. 358-19.000.

Baker, Daniel G.: *See—*
  Horn, John J.; and Baker, Daniel G., 4,648,113, Cl. 381-1.000.

Baker, David C.; and Hand, Elli S., to University of Alabama, Board of Trustees of the. 5-cyanopyridine-2-diazohydroxide, basic salts and methods for production and use. 4,636,564, 1-13-87, Cl. 546-289.000.

Baker, David C.; Hand, Elli S.; Haugwitz, Rudiger D.; Narayanan, Venkatachala L.; and Rampal, Jang B., to University of Alabama, Board of Trustees of the. Pyrazine diazohydroxide compounds and methods for their production and use. 4,709,033, 11-24-87, Cl. 544-336.000.

Baker, David H.: *See—*
  Baker, Henry E.; Baker, John B.; Baker, David H.; and Baker, Peter K., 4,699,188, Cl. 141-18.000.

Baker, David L. Chemical reformer. 4,636,318, 1-13-87, Cl. 210-766.000.

Baker, Dean M.: *See—*
  Colvell, William F.; and Baker, Dean M., 4,694,569, Cl. 29-724.000.

Baker, Dennis G.: *See—*
  Chin, Daniel Y. S.; Miller, David D.; May, William L.; and Baker, Dennis G., 4,647,123, Cl. 339-17.0LM.

Baker, Dennis L., to Minnesota Mining and Manufacturing Company. Folded RF marker for electronic article surveillance systems. 4,658,264, 4-14-87, Cl. 343-895.000.

Baker, Donal E., to Westinghouse Electric Corp. Electromechanical constant speed drive generating system. 4,694,187, 9-15-87, Cl. 290-4.00R.

Baker, Donal E.; and Beg, Mirza A., to Westinghouse Electric Corp. Master clock system for a parallel variable speed constant frequency power system. 4,707,142, 11-17-87, Cl. 368-46.000.

Baker, Donald J.: *See—*
  Fulmer, Keith H.; and Baker, Donald J., 4,685,491, Cl. 138-31.000.

Baker, Dorian R. W. Intermodal transport. 4,685,399, 8-11-87, Cl. 105-4.100.

Baker, E. Bruce, to Vibrastop, Inc. Active vibration suppressor. 4,635,892, 1-13-87, Cl. 248-550.000.

Baker, Edwin L. Method of sealing a joint between an ingot mold and a stool and resulting assembly. 4,635,896, 1-13-87, Cl. 249-135.000.

Baker, Franklin W. Portable luggage carrier. 4,647,056, 3-3-87, Cl. 280-37.000.

Baker, Frederick J.: *See—*
  Hart, John H.; and Baker, Frederick J., 4,706,081, Cl. 340-825.030.

Baker, Gary L., to Crankshaft Machine Company. Concise quick release tool holder. 4,638,537, 1-27-87, Cl. 29-40.000.

Baker, Geoffrey, to U.S. Philips Corp. Infra-red radiation detector devices. 4,697,081, 9-29-87, Cl. 250-338.000.

Baker, George A.: *See—*
  Edgar, Thomas L.; Baker, George A.; and Comerford, Robert P., 4,662,127, Cl. 52-245.000.

Baker, Gerald G., to Murphy, Chester M. a part interest. Ladder leveler apparatus. 4,683,982, 8-4-87, Cl. 182-204.000.

Baker, Gerald G.: *See—*
  Murphy, Chester M., 4,683,983, Cl. 182-204.000.

Baker, Gerald N.; and Fischer, Carl R., to Emerson Electric Co. Ventilation structure for an electric motor. 4,689,507, 8-25-87, Cl. 310-62.000.

Baker, Gerald N.; and Fischer, Carl R., to Emerson Electric Co. Drain assembly for an electric motor. 4,689,511, 8-25-87, Cl. 310-88.000.

Baker, Gerald R.: *See—*
  Murphy, Kenneth J.; Baker, Gerald R.; and Gard, Matthew F., 4,643,446, Cl. 280-648.000.

Baker, Gerald S., to Cameron Iron Works, Inc. Pressure transmitter. 4,682,499, 7-28-87, Cl. 73-701.000.

Baker, Gerald S., to Cameron Iron Works, Inc. Choke and improved needle tip therefor. 4,705,062, 11-10-87, Cl. 137-315.000.

Baker, Glen; Chau, Albert W.; and Mercer, John E., to FlowMole Corporation. Technique for steering and monitoring the orientation of a powered underground boring device. 4,714,118, 12-22-87, Cl. 175-26.000.

Baker, Gordon R.: *See—*
  Podolsky, Richard J.; Baker, Gordon R.; and Brenner, Bernhard, 4,693,606, Cl. 356-355.000.

Baker, Harold R.; Thrower, Eugene S.; and Simpson, David C., to Clorox Company, The. Hard surface cleaning composition. 4,690,779, 9-1-87, Cl. 252-546.000.

Baker, Henry E.; Baker, John B.; Baker, David H.; and Baker, Peter K. Hygienic liquid dispensing system. 4,699,188, 10-13-87, Cl. 141-18.000.

Baker Industries, Inc.: *See—*
  Vogt, William R., 4,658,249, Cl. 340-825.630.

Baker International Corporation: *See—*
  Hyll, John, 4,706,928, Cl. 249-184.000.

Baker, James G.; and Plummer, William T., to Polaroid Corporation. Analytic function optical component. 4,650,292, 3-17-87, Cl. 350-432.000.

Baker, James K., to Exxon Research and Engineering Company. Speech recognition method. 4,713,778, 12-15-87, Cl. 364-513.500.

Baker, James T.: *See—*
  Heesch, Max O.; and Baker, James T., 4,657,304, Cl. 297-391.000.

Baker, John B.: *See—*
  Baker, Henry E.; Baker, John B.; Baker, David H.; and Baker, Peter K., 4,699,188, Cl. 141-18.000.

Baker, John G.: *See—*
  Longworth, Stuart W.; and Baker, John G., 4,689,201, Cl. 422-16.000.

Baker, John M. Utility light adjusting and securing device. 4,672,515, 6-9-87, Cl. 362-398.000.

Baker, John M.: *See—*
  Burchfiel, Loyal E.; and Baker, John M., 4,661,719, Cl. 307-38.000.

Baker, John R. Methods of determining fructosamine levels in blood samples. 4,642,295, 2-10-87, Cl. 436-87.000.

Baker, John R. Materials for determining fructosamine levels in blood samples. 4,645,742, 2-24-87, Cl. 436-15.000.

Baker, John W. Cranial perforator. 4,699,550, 10-13-87, Cl. 408-139.000.

Baker, Josefina T.; Pagano, Joseph F.; and Schoengold, Ronald J., to SmithKline Diagnostics, Inc. Method and device for collecting and testing for fecal occult blood. 4,645,743, 2-24-87, Cl. 436-66.000.

Baker, Joseph G.: *See—*
- Sparkes, Laurie R.; and Baker, Joseph G., 4,694,773, Cl. 114-354.000.

Baker, Kenneth R. Universal adjustable weld gauge. 4,637,142, 1-20-87, Cl. 33-169.00D.

Baker, Kenneth R.: *See—*
- Baker, Anna M., 4,693,504, Cl. 294-1.100.

Baker, Lawrence J.: *See—*
- Winbow, Graham A.; and Baker, Lawrence J., 4,649,526, Cl. 367-35.000.

Baker, Malcolm J.: *See—*
- Stiff, Rodney A.; Baker, Malcolm J.; and Lester, Leslie J., 4,677,813, Cl. 56-13.900.

Baker, Mark G. B., to Ferranti plc. Imaging device. 4,641,038, 2-3-87, Cl. 250-578.000.

Baker, Mark L.: *See—*
- Inouye, Alan T.; Wilson, Jeffrey V.; and Baker, Mark L., 4,653,331, Cl. 73-800.000.

Baker, Marshall W.: *See—*
- Gresham, Tony R., 4,633,955, Cl. 171-1.000.

Baker, Michael: *See—*
- Tuggle, Lloyd H.; Baker, Michael; and Franke, Jeffery S., 4,674,146, Cl. 15-330.000.

Baker, Michael P.: *See—*
- King, Nigel J. R.; Pawson, Ian W. N.; Baker, Michael P.; Shaddock, Robert N., and Stansfield, Edward V., 4,639,733, Cl. 342-424.000.

Baker Oil Tools, Inc.: *See—*
- Donovan, Joseph F.; Stout, Gregg W.; and Schmuck, Philip W., 4,635,734, Cl. 175-4.600.
- Glaze, O. Howard; and Underdown, David R., 4,664,819, Cl. 252-8.551.
- Guess, Edward L., 4,674,575, Cl. 166-332.000.
- Halbardier, Floyd A., 4,655,292, Cl. 166-387.000.
- Halbardier, Floyd A., 4,708,208, Cl. 166-387.000.
- Harris, Gary L., 4,641,682, Cl. 137-329.040.
- Luke, Mike A., 4,648,455, Cl. 166-303.000.
- Luke, Mike A., 4,665,978, Cl. 166-196.000.
- McStravick, David M.; Chenoweth, David V.; and Anderson, David M., 4,673,652, Cl. 436-2.000.
- Mullins, Albert A., 4,665,977, Cl. 166-134.000.
- Preston, Dan C., Jr., 4,709,758, Cl. 166-120.000.
- Ross, Richard J.; and Klumpyan, Joseph N., 4,648,457, Cl. 166-332.000.
- Ross, Richard J.; and Klumpyan, Joseph N., 4,662,452, Cl. 166-334.000.
- Salerni, John V.; and Donovan, Joseph F., 4,667,735, Cl. 166-55.100.
- Salerni, John V.; and Donovan, Joseph F., 4,708,200, Cl. 166-55.100.
- Shaw, James G.; and Shore, John H., 4,667,737, Cl. 166-104.000.
- Stout, Gregg W., 4,657,089, Cl. 175-4.600.
- Stout, Gregg W., 4,658,900, Cl. 166-297.000.
- Vlasek, David J.; and Riddle, Harry W., 4,641,776, Cl. 228-155.000.
- Weinberg, Roger A., 4,664,187, Cl. 166-115.000.
- Wetzel, Rodney J., 4,640,370, Cl. 175-4.600.

Baker, Paul A., and Strautz, Michael G., to AT&T Bell Laboratories. Chip carrier mounting apparatus. 4,652,973, 3-24-87, Cl. 361-395.000.

Baker, Paul L.: *See—*
- Kenyon, William E.; and Baker, Paul L., 4,652,828, Cl. 324-338.000.
- Kenyon, William E.; Baker, Paul L.; Sen, Pabitra N.; and Banavar, Jayanth R., 4,703,277, Cl. 324-323.000.

Baker, Peotr, to ITT Industries, Inc. Integrated circuit of a digital filter for the luminance channel of a color-television receiver. 4,635,119, 1-6-87, Cl. 358-166.000.

Baker, Peotr: *See—*
- Zaehringer, Edmund; Baker, Peotr; and Zettel, Rolf, 4,696,018, Cl. 375-82.000.

Baker Perkins, Inc.: *See—*
- Kowalczyk, James E., 4,704,035, Cl. 366-142.000.
- Scherping, Clarence K., 4,703,935, Cl. 277-1.000.

Baker Perkins PLC: *See—*
- Newbery, Desmond; and Pickford, Terry A., 4,708,054, Cl. 99-450.400.

Baker, Peter F.: *See—*
- Persicke, Gunter; Child, James R.; and Baker, Peter F., 4,700,815, Cl. 188-286.000.

Baker, Peter K.: *See—*
- Baker, Henry E.; Baker, John B.; Baker, David H.; and Baker, Peter K., 4,699,188, Cl. 141-18.000.

Baker, Philip A., to Lucas Industries Public Limited Company. Light assembly. 4,670,822, 6-2-87, Cl. 362-226.000.

Baker, Philip G.; and Yurchenco, James, to Presentation Technologies, Inc. Alignment method and cartridge apparatus for apparatus for generating color text and graphics on photographic media. 4,702,578, 10-27-87, Cl. 354-15.000.

Baker, Rex O. Bait station. 4,658,536, 4-21-87, Cl. 43-131.000.

Baker, Richard E., Jr.: *See—*
- Baker, Richard E., Sr.; and Baker, Richard E., Jr., 4,662,516, Cl. 206-363.000.

Baker, Richard E., Sr.; and Baker, Richard E., Jr. Syringe disposal techniques. 4,662,516, 5-5-87, Cl. 206-363.000.

Baker, Richard H.; and Maddox, Edward L., to Gould Inc. MOSFET AC switch. 4,680,490, 7-14-87, Cl. 307-575.000.

Baker, Richard I.; Wegrzyn, Richard J.; and Szymansky, Edward, to Remington Products, Inc. Fragrance device. 4,666,638, 5-19-87, Cl. 261-26.000.

Baker, Richard I.: *See—*
- Szymansky, Edward; Wegrzyn, Richard J.; and Baker, Richard I., 4,644,328, Cl. 340-539.000.

Baker, Richard W.; and Funk, Roger L., to SenTech Medical Corporation. Self-calibrating single-use sensing device for clinical chemistry and method of use. 4,654,127, 3-31-87, Cl. 204-1.00T.

Baker, Richard W., to Bend Research, Inc. Durable controlled release microcapsules. 4,670,250, 6-2-87, Cl. 424-419.000.

Baker, Richard W.; and Brooke, James W., to Burroughs Wellcome Co. Pharmaceutical delivery system. 4,687,660, 8-18-87, Cl. 424-465.000.

Baker, Robert C., to Sundstrand Corporation. Emergency power system. 4,661,762, 4-28-87, Cl. 322-40.000.

Baker, Robert C.; and Dishner, Bryan W., to Sundstrand Corporation. Starting system for an electrically-compensated constant speed drive. 4,697,090, 9-29-87, Cl. 290-4.00R.

Baker, Robert G., to Nordson Corporation. Electrically heated hose having corrugated plastic cover. 4,644,134, 2-17-87, Cl. 219-301.000.

Baker, Robert L., and Glauber, Diane E. Heat exchanger assembly for a compressor. 4,635,712, 1-13-87, Cl. 165-82.000.

Baker, Robin C.; Brown, Steven E.; Lothrop, John R.; Lozyniak, Roman; Miller, Paul E.; Olsen, Robert H.; Parker, Charles H.; and Swoll, Eva C., to American Telephone and Telegraph Company, AT&T Information Systems Inc. Communication system for providing business communication features to cellular mobile telecommunication customers. 4,680,786, 7-14-87, Cl. 379-60.000.

Baker, Robin M.; Sargeant, Paul R.; Papper, Ernest G.; Oberoi, Bhusan K.; Smith, Frank A.; and Rae, Malcolm C., to Redland Roof Tiles Limited. Method and apparatus for manufacturing roof tiles and tiles made thereby. 4,695,418, 9-22-87, Cl. 264-151.000.

Baker, Rodney C.; and Van Rensburg, Phillippus J., to AECI Limited. Insecticidal grooming article. 4,685,423, 8-11-87, Cl. 119-86.000.

Baker, Rodney G.; and Lubelski, Daniel P., to Libbey-Owens-Ford Co. Infrared and ultraviolet absorbing glass compositions. 4,701,425, 10-20-87, Cl. 501-70.000.

Baker, Rodney G.: *See—*
- Lubelski, Daniel P.; and Baker, Rodney G., 4,713,359, Cl. 501-63.000.

Baker, Roger C.: *See—*
- Pollard, Geoffrey J.; and Baker, Roger C., 4,685,811, Cl. 366-275.000.

Baker, Ronald: *See—*
- Baird, David B.; Baker, Ronald; Fishwick, Brian R., and McClelland, Robert D., 4,658,040, Cl. 549-68.000.

Baker, Ronald C., to Outboard Marine Corporation. Transom bracket water deflector for improved boat performance. 4,657,513, 4-14-87, Cl. 440-66.000.

Baker, Ross G., Jr., to Intermedics, Inc. Low threshold cardiac pacing electrodes. 4,679,572, 7-14-87, Cl. 128-786.000.

Baker, Ross G., Jr., to Intermedics, Inc. Pacemaker and method for ventricular rate limit operation and termination of pacemaker mediated tachycardia. 4,712,556, 12-15-87, Cl. 128-419.0PG.

Baker, Samuel F., to Texas Iron Works, Inc. Rotatable liner with multiple simultaneously set liner hanger arrangement and method. 4,688,642, 8-25-87, Cl. 166-382.000.

Baker, Samuel F.: *See—*
- Arnold, Ronald D.; Baker, Samuel F.; and Goodman, Billy R., 4,646,842, Cl. 166-382.000.

Baker, Sol, to ITT Corporation. Air vent. 4,635,672, 1-13-87, Cl. 137-202.000.

Baker, Stanley Z.; Baker, Benjamin H.; and Baker, Bart M., to J. T. Eaton & Company. Bait station for small rodents. 4,660,320, 4-28-87, Cl. 43-131.000.

Baker, Stephen B.: *See—*
- Rubinstein, Stanley; and Baker, Stephen B., 4,673,306, Cl. 400-618.000.

Baker, Stephen J.: *See—*
- Bryant, Stewart F.; Baker, Stephen J.; and Cook, Richard A., 4,638,442, Cl. 264-489.000.

Baker, Stephen M.: *See—*
- O'Brien, John D.; Baker, Stephen M.; and Davidson, Douglas G., 4,653,255, Cl. 56-249.000.

Baker, Stephen R.; Jamieson, William B.; and Todd, Alec, to Lilly Industries Limited. Oxiranes. 4,665,189, 5-12-87, Cl. 548-252.000.

Baker, Stephen R.; and Ross, William J., to Lilly Industries Limited. Sulfur containing alkenylenyl substituted benzoic acids and phenyl tetrazoles and their use as anti-allergic agents. 4,675,335, 6-23-87, Cl. 514-381.000.

Baker, Steven F., to General Motors Corporation. Direct acting cam-valve assembly. 4,711,202, 12-8-87, Cl. 123-90.260.

Baker, Terence S.; Abbott, Stephen R.; Simpson, John G.; Wright, John F.; and Powell, Michael J., to Boots-Celltech Diagnostics Limited. Heterogeneous binding assay. 4,656,143, 4-7-87, Cl. 436-527.000.

Baker, Terence S.; Powell, Michael J.; and Titmas, Richard C., to Boots-Celltech Diagnostics Limited. Immunoassay. 4,716,109, 12-29-87, Cl. 435-7.000.

Baker, Thomas E.; Krasnow, S. Bert; and Silverman, Richard A., to Raytheon Company. Compliant layer printed circuit board. 4,658,332, 4-14-87, Cl. 361-398.000.

Baker, Timothy F. Insect swatter having continuous planar soft and rigid surfaces. 4,651,464, 3-24-87, Cl. 43-137.000.

- Baker, W. Howard, to Precision Rubber Products Corporation. Turbulent flow gate for the injection molding of tubular parts, including parisons suitable for blow molding. 4,711,602, 12-8-87, Cl. 425-206.000.
- Baker, Walter: *See—*
  - Council, Malcolm N.; and Baker, Walter, 4,705,107, Cl. 166-170.000.
- Baker, Wilford S.; and Harrison, James J., to Chevron Research Company. Cement compositions containing a polysaccharide and a salt and method of cementing casing in a well. 4,662,943, 5-5-87, Cl. 106-93.000.
- Baker, William; Pedigo, Michael K.; Atkinson, Noel; and Shelton, Henry P., to Southwestern Bell Telecommunications, Inc. Cordless telephone system. 4,706,274, 11-10-87, Cl. 379-61.000.
- Baker, William E.: *See—*
  - Gladney, Tommy C.; and Baker, William E., 4,700,421, Cl. 14-69.500.
- Baker, William R., to Thrall Car Manufacturing Company. Autorack railroad car improved bridge plate support structure. 4,667,604, 5-26-87, Cl. 105-378.000.
- Baker, William R., Marulic, Walter J.; and Robertson, James C., to Thrall Car Manufacturing Company. Railroad car with retractable closure track held down by bridge plate. 4,677,918, 7-7-87, Cl. 105-378.000.
- Baker, William R.: *See—*
  - Godbold, Thomas M.; and Baker, William R., 4,681,598, Cl. 44-1.0SR.
- Bakermans, Frank C.; and Trexler, Charles J., to Du Pont de Nemours, E. I., and Company. Thick film planar filter connector having separate ground plane shield. 4,682,129, 7-21-87, Cl. 333-184.000.
- Bakermans, Johannes C. W., to AMP Incorporated. Bundle ties produced by the use of two part bundle tie material. 4,646,392, 3-3-87, Cl. 24-16.0PB.
- Bakermans, Johannes C. W., to AMP Incorporated. Method of using bundle ties produced by the use of two part bundle tie material. 4,698,892, 10-13-87, Cl. 29-452.000.
- Bakes, William S.: *See—*
  - Woodley, George M.; and Bakes, William S., 4,682,742, Cl. 242-56.00R.
- Bakewell, Frank W.; and Stricker, Charles D., to Associated Materials Incorporated. Process for producing brass-coated steel wire for the tire cord applications. 4,683,175, 7-28-87, Cl. 428-677.000.
- Bakewell, Joseph J., to Dynamics Research Corporation. Thermal print head. 4,636,811, 1-13-87, Cl. 346-76.0PH.
- Bakewell, Joseph J., to Dynamics Research Corporation. Thermal print head temperature control. 4,636,812, 1-13-87, Cl. 346-76.0PH.
- Bakhaus, Kenneth C.; and Sdunek, Bruce C., to Mechanical Products, Inc. Snap-in bushing. 4,687,164, 8-18-87, Cl. 248-27.300.
- Bakhaus, Kenneth C.: *See—*
  - Alper, Daniel D.; Bakhaus, Kenneth C.; and Estkowski, Michael H., 4,688,512, Cl. 116-279.000.
- Bakish Materials Corporation: *See—*
  - Schiller, Siegfried; Panzer, Siegfried; and Gaber, Klaus, 4,633,611, Cl. 47-1.300.
  - Schiller, Siegfried; Jaesch, Guenter; and von Ardenne, Alexander, 4,665,297, Cl. 219-121.0ET.
- Bakka, Charles M., and Levinson, Samuel H., to Trailer Rail Partners. Drop-deck intermodal bogie. 4,653,966, 3-31-87, Cl. 410-1.000.
- Bakke, David C.: *See—*
  - Bakke, John S.; and Bakke, David C., 4,652,813, Cl. 324-66.000.
- Bakke, John S.; and Bakke, David C. Apparatus for identifying wires of multiple wire electrical system. 4,652,813, 3-24-87, Cl. 324-66.000.
- Bakken, Dennis J.: *See—*
  - Rittenberry, Gary M.; and Bakken, Dennis J., 4,704,609, Cl. 340-870.130.
- Bakken, John A. Chain saw carriage. 4,640,170, 2-3-87, Cl. 83-794.000.
- Bakken, Kathy L., to Dow Corning Corporation. Silicone emulsion having improved freeze/thaw resistance. 4,704,422, 11-3-87, Cl. 524-375.000.
- Bakker, Eppe, and Hoekstra, Albert, to U.S. Philips Corporation. Dry-shaving apparatus with angled blades. 4,707,915, 11-24-87, Cl. 30-43.600.
- Bakker, Gijsbertus; and Rorije, Gerhardus J., to U.S. Philips Corporation. Color display tube window, skirt and mount for color selection means. 4,639,636, 1-27-87, Cl. 313-408.000.
- Bakker, Gijsbertus; and Gerhardus, Rorije J., to U.S. Philips Corporation. Color display tube. 4,675,571, 6-23-87, Cl. 313-461.000.
- Bakker, Harry J.: *See—*
  - Feikema, Roger; and Bakker, Harry J., 4,645,011, Cl. 172-15.000.
- Bakker, Jan, to U.S. Philips Corporation. Method of manufacturing a magnetic head. 4,663,836, 5-12-87, Cl. 29-603.000.
- Bakker, Johannes, to Shell Oil Company. Method and apparatus for filtering the air outlet of a solid sulphur particle production apparatus. 4,705,467, 11-10-87, Cl. 425-7.000.
- Bakkila, Charles A.; and Warrick, Frederick P. Safety mask. 4,686,976, 8-18-87, Cl. 128-206.150.
- Bakonyi, Maria; Lugosi, Gyorgy; Kallai, Tamas; Hima nee Toth, Maria; Montai, Tibor; and Sziladi, Maria, to Chinoin Gyogyszer es Vegyeszeti Termekek Gyara Rt. Process for the preparation of benzimidazole-thiol. 4,675,413, 6-23-87, Cl. 548-329.000.
- Bakonyi, Maria: *See—*
  - Lugosi, Gyorgy; Hima nee Toth, Maria; Bakonyi, Maria; and Szoke, Sandor, 4,659,515, Cl. 260-351.500.
- Bakos, Jozsef: *See—*
  - Kreidl, Janos; Turcsanyi, Peter; Aracs, Zsuzsanna; Stefko, Bela; Meszaros, Judit; Deutsch, Ida; Szilbereky, Jeno; Csizer, Eva; Vezer, Szilard; Bogsch, Erik; Bakos, Jozsef; Szotyori, Laszlo and Heil, Balint, 4,710,323, Cl. 260-543.00R.
- Bakos, Peter; Darrow, Russell E.; Franchak, Nelson P.; and Funari, Joseph, to International Business Machines Corporation. Structure containing a layer consisting of a polyimide and an organic filled and method for producing such a structure. 4,670,325, 6-2-87, Cl. 428-209.000.
- Bakow, Leon: *See—*
  - Sparling, Kenneth P.; Richardson, David G.; Incardona, Angelo; Wood, Ronald E.; Kikendall, Garth D.; and Bakow, Leon, 4,678,384, Cl. 411-43.000.
  - Sparling, Kenneth P.; Incardona, Angelo; Kikendall, Garth D.; Richardson, David G.; Wood, Ronald E.; and Bakow, Leon, 4,681,499, Cl. 411-507.000.
  - Sparling, Kenneth P.; Incardona, Angelo; Kikendall, Garth D.; Richardson, David G.; Wood, Ronald E.; and Bakow, Leon, 4,695,213, Cl. 411-506.000.
  - Sparling, Kenneth P.; Incardona, Angelo; Kikendall, Garth D.; Richardson, David G.; Wood, Ronald E.; and Bakow, Leon, 4,712,958, Cl. 411-506.000.
- Bakr, Mamdouh M.; and Maloney, Bobby J., to Delta Wood Products Inc. Sewing machine cabinet and lift. 4,690,466, 9-1-87, Cl. 312-29.000.
- Bakuer Italiana S.p.A.: *See—*
  - Donnini, Giovanji; and Fantini, Giuliano, 4,676,704, Cl. 409-208.000.
- Bakula, Jerry R., to Snap-On Tools Corporation. Static wheel balancer. 4,663,971, 5-12-87, Cl. 73-480.000.
- Bakuradze, Georgy V.: *See—*
  - Gaprindashvili, Khanzerifa I.; Kogan, Vadim E.; Kekelia, Dzhemal I.; Pronkin, Alexei A.; Salukvadze, Nana A.; Bakuradze, Georgy V.; and Evstropiev, Konstantin K., deceased, 4,649,126, Cl. 501-43.000.
- Balaam, William J. D.; and Szemplenski, Thomas E., to Alfa-Laval Inc. Closed food processing system and liquid adjustment apparatus for use therein. 4,667,590, 5-26-87, Cl. 99-470.000.
- Balaban, Alvin R.; Patel, Chandrakant B.; Demmer, Walter H.; and Harwood, Leopold A., to RCA Corporation. Phase locked loop system including analog and digital components. 4,686,560, 8-11-87, Cl. 358-19.000.
- Balaban, Alvin R., and Steckler, Steven A., to RCA Corporation. Phase-lock-loop circuit for a television apparatus. 4,689,582, 8-25-87, Cl. 331-20.000.
- Balaban, Alvin R.; and Steckler, Steven A., to RCA Corporation. Sync separator with periodic updating. 4,697,211, 9-29-87, Cl. 358-153.000.
- Balaban, Alvin R.; and Steckler, Steven A., to RCA Corporation. Sync separator. 4,698,679, 10-6-87, Cl. 358-153.000.
- Balaban, Alvin R.; Demmer, Walter H.; Harwood, Leopold A.; and Patel, Chandrakant B., to RCA Corporation. Chrominance signal phase locked loop system for use in a digital television receiver having a line-locked clock signal. 4,700,217, 10-13-87, Cl. 358-23.000.
- Balaban, Alvin R.; Harwood, Leopold A.; Patel, Chandrakant B., and Demmer, Walter H., to RCA Corporation. Frequency division multiplexed analog to digital converter. 4,703,340, 10-27-87, Cl. 358-19.000.
- Balaban, Alvin R.: *See—*
  - Demmer, Walter H.; Harwood, Leopold A.; Patel, Chandrakant B.; and Balaban, Alvin R., 4,694,327, Cl. 358-19.000.
  - Steckler, Steven A.; and Balaban, Alvin R., 4,635,10[illegible], Cl. 358-27.000.
  - Steckler, Steven A.; and Balaban, Alvin R., 4,636,836, Cl. 358-19.000.
- Balagot, Reuben C.: *See—*
  - Ehrenpreis, Seymour; Comaty, Joseph E.; and Balagot, Reuben C., 4,687,781, Cl. 514-557.000.
- Balakrishnan, Ramanatha V., to National Semiconductor Corporation. Active bus backplane. 4,697,858, 10-6-87, Cl. 439-61.000.
- Balakrishnan, Ramanatha V.: *See—*
  - Sivasothy, Sivakumar; and Balakrishnan, Ramanatha V., 4,644,186, Cl. 307-300.000.
- Balakrishnan, Ramesh: *See—*
  - Aral, Gurcan; and Balakrishnan, Ramesh, 4,680,089, Cl. 162-198.000.
- Balakrishhan, Shiv K.: *See—*
  - Thong, Tran; and Balakrishnan, Shiv K., 4,654,634, Cl. 340-347.00R.
- Balance Dynamics Co.: *See—*
  - Kerlin, Jack H., 4,684,944, Cl. 340-825.060.
- Balasini, Flavio: *See—*
  - Maccianti, Tiziano; and Balasini, Flavio, 4,661,925, Cl. 364-900.000.
- Balassa, Leslie L., to Lescarden Inc. Method of processing animal cartilage. 4,656,137, 4-7-87, Cl. 435-267.000.
- Balassa, Leslie L. Hydrated fibrous mats. 4,665,993, 5-19-87, Cl. 169-44.000.
- Balassa, Oscar. Method and apparatus for producing rolled product from metal droplets. 4,705,466, 11-10-87, Cl. 425-6.000.
- Balasubramanian, N., to Matrix Instruments Inc. Method for reading deformation images on electrophotographic media. 4,636,069, 1-13-87, Cl. 356-71.000.
- Balasubramanyam, Karanam; Dally, Anthony J.; Riseman, Jacob; and Ogura, Seiki, to International Business Machines Corporation. Process for forming planar chip-level wiring. 4,689,113, 8-25-87, Cl. 156-643.000.
- Balazs, Endre A.; and Leshchiner, Adolf, to Biomatrix, Inc. Cross-linked gels of hyaluronic acid and products containing such gels. 4,636,524, 1-13-87, Cl. 514-781.000.

Balazs, Endre A.; Leshchiner, Adolf; Leshchiner, Adelya; and Band, Philip, to Biomatrix, Inc. Chemically modified hyaluronic acid preparation and method of recovery thereof from animal tissues. 4,713,448, 12-15-87, Cl. 536-55.100.

Balazs, Janos; Bocskor, Adam; Cseh, Otto; and Iring, Rezso, to Energiagazdalkodasi Intezet. Multistage evaporation boiling equipment. 4,641,607, 2-10-87, Cl. 122-360.000.

Balazs, Michael A., to Boca Raton Hotel and Club. Collapsible support for food screen. 4,685,483, 8-11-87, Cl. 135-102.000.

Balbi, Philip A.; and Coulborn, John W., to ACF Industries, Incorporated. Corner fitting for open top railroad car. 4,646,653, 3-3-87, Cl. 105-406.100.

Balbinot, Renzo, to Nordica S.p.A. Footwear structure incorporating a heating device particularly for ski boots. 4,697,359, 10-6-87, Cl. 36-2.600.

Balbinot, Renzo: *See—*
- Baggio, Giorgio; and Balbinot, Renzo, 4,694,592, Cl. 36-117.000.

Balboni, John J.: *See—*
- Hong, Leon; and Balboni, John J., 4,693,899, Cl. 426-94.000.

Balcezak, Stanley M., Jr.: *See—*
- Markowski, Robert G.; Balcezak, Stanley M., Jr.; Bottalico, John J.; Morby, John A.; and Sabatella, Robert J., 4,675,481, Cl. 200-144.00R.

Balch, Edgar T.; Bilski, Richard E.; and Kumar, Ajith K., to General Electric Company. Load rate limiting means for a locomotive engine. 4,634,887, 1-6-87, Cl. 290-3.000.

Balcke-Durr AG: *See—*
- Fickelscher, Kurt G., 4,667,539, Cl. 74-804.000.

Balcke-Durr Aktiengesellschaft: *See—*
- Gollnick, Wilhelm; Klauke, Friedrich; and Mohr, Karl-Heinz, 4,651,809, Cl. 165-9.000.
- Mohr, Karl-Heinz; and Tratz, Manfred, 4,705,057, Cl. 134-180.000.
- Trage, Burkhard; and Leitz, Richard, 4,690,207, Cl. 165-113.000.

Balco, Inc.: *See—*
- Balzer, Claude P.; and Rumsey, Roger L., 4,654,245, Cl. 428-52.000.
- Rumsey, Roger L., 4,706,426, Cl. 52-232.000.

Bald, Gordon H., to Diversified Manufacturing Corporation. Corrugating die shoe assemblies. 4,635,462, 1-13-87, Cl. 72-385.000.

Bald, Wilfried, to SMS Schloemann-Siemag AG. Method of operating a four-high roll stand. 4,669,296, 6-2-87, Cl. 72-366.000.

Bald, Wilfried; and Klamma, Klaus, to SMS Schloemann-Siemag AG. High- and low-force adjustable roll stand. 4,674,313, 6-23-87, Cl. 72-249.000.

Bald, Wilfried, to SMS Schloemann-Siemag AG. Method of operating a four-high roll stand with bendable and axially shiftable rolls. 4,711,116, 12-8-87, Cl. 72-366.000.

Baldamus, Haimo; Szerdahelyi, Ferenc; Hess, Peter; and Bauer, Manfred, to Brose Fahrzeugteile GmbH & Co. KG. Door unit for motor vehicles. 4,648,208, 3-10-87, Cl. 49-502.000.

Baldasarri, Mario; Adams, William R.; and Caspers, John, to Lummus Crest, Inc. Temperature control for hydrogenation reactions. 4,707,245, 11-17-87, Cl. 208-57.000.

Baldasarri, Mario: *See—*
- Van Driesen, Roger P.; Adams, William R.; Caspers, John; Baldasarri, Mario; and Trimble, Harold. 4,684,456, Cl. 208-143.000.

Baldauf, Gunter; and Ott, Helmut, to Herion-Werke KG. Two-hand safety control mechanism. 4,706,548, 11-17-87, Cl. 91-424.000.

Baldelli, Joseph, to Fabraze, Inc. Foundry process and apparatus, including mixing investment composition under vacuum. 4,653,568, 3-31-87, Cl. 164-7.100.

Baldenko, Dmitry F.; Beziepkin, Nikolai P.; Vadetsky, Jury V.; Gusman, Moisei T.; Potapov, Jury F.; and Semenets, Valery I., to Vsesojuzny Nauchnoissledovatelsky Institut Burovoi Tekhniki. Downhole sectional screw motor, mounting fixture thereof and method of oriented assembly of working members of the screw motor using the mounting fixture. 4,711,006, 12-8-87, Cl. 29-156.40R.

Balderman, David: *See—*
- Amitai, Gabriel; Balderman, David; Bruckstein-Davidovici, Rachel; and Spiegelstein, Michael, 4,675,326, Cl. 514-304.000.

Balderson Inc.: *See—*
- Duncan, Michael, 4,697,840, Cl. 294-119.400.

Baldessarini, Ross J.: *See—*
- Neumeyer, John L.; and Baldessarini, Ross J., 4,687,773, Cl. 514-280.000.

Baldi, Alfonso L., to Alloy Surfaces Company, Inc. Metal diffusion and use. 4,694,036, 9-15-87, Cl. 524-473.000.

Baldi, Alfonso L., to Alloy Surfaces Company, Inc. Pyrophoric process and product. 4,708,913, 11-24-87, Cl. 428-607.000.

Baldi, Livio; Corda, Giuseppe; Iannuzzi, Giulio; Re, Danilo; and De Santi, Giorgio, to SGS Microelettronica S.p.A. Fabricating a CMOS transistor having low threshold voltages using self-aligned silicide polysilicon gates and silicide interconnect regions. 4,703,552, 11-3-87, Cl. 437-45.000.

Balding, David P.; Hsu, Li-Chien; and Gordon, Lucas S., to American Hospital Supply Corporation. Stress crack reduction in polycarbonate parts. 4,640,819, 2-3-87, Cl. 422-22.000.

Balding, Victor H., to Beaver Machine Tool Sales Limited. Plano-milling machine. 4,635,342, 1-13-87, Cl. 29-568.000.

Baldini, Luciano; and Siccardi, Alberto, to Bieffe S.p.A. System and equipment for the manufacture and filling of flexible sterilizable bags. 4,656,813, 4-14-87, Cl. 53-410.000.

Baldini, Luciano; and Siccardi, Alberto, to Bieffe S.p.A. Sterilizable valvular systems for flexible containers. 4,685,917, 8-11-87, Cl. 604-411.000.

Baldino, Micheal; Voss, Robert L.; and Hladik, Larry L., to Kelly Industries, Inc. Vertical louver system for cooling towers. 4,706,554, 11-17-87, Cl. 98-121.200.

Baldoni, J. Gary: *See—*
- Buljan, Sergei-Tomislav V.; Lingertat, Helmut; Baldoni, J. Gary; and Sarin, Vinod K., 4,698,266, Cl. 428-457.000.
- Buljan, Sergej-Tomislav; and Baldoni, J. Gary, 4,696,352, Cl. 175-57.000.

Baldoni, J. Gary, II; and D'Angelo, Charles, to GTE Laboratories Incorporated. Coated cemented carbide cutting tool. 4,686,156, 8-11-87, Cl. 428-698.000.

Baldoni, J. Gary, II; Buljan, Sergej-Tomislav; and Sarin, Vinod K., to GTE Laboratories Inc. Abrasion resistant articles and composition utilizing a boron-doped refractory particle. 4,710,425, 12-1-87, Cl. 428-328.000.

Baldoni, J. Gary, II: *See—*
- Buljan, Sergei-Tomislav V.; Lingertat, Helmut; Baldoni, J. Gary, II; and Sarin, Vinod K., 4,708,037, Cl. 82-1.00C.

Baldridge, Morris G.: *See—*
- Stepp, Lee W.; Baldridge, Morris G.; and Treece, Harold O., 4,683,955, Cl. 166-327.000.

Baldt Incorporated: *See—*
- Albertini, Rocco D.; McClellan, Arthur W.; and Kokoszka, Stephen A., 4,651,669, Cl. 114-304.000.

Balduff, Dennis C.; and Jabarin, Saleh A., to Owens-Illinois Plastic Products Inc. Degradable polymer composition and articles prepared from same. 4,709,808, 12-1-87, Cl. 206-158.000.

Balduff, Dennis C.; and Jabarin, Saleh A., to Owens-Illinois Plastic Products Inc. Degradable polymer composition. 4,714,741, 12-22-87, Cl. 525-185.000.

Balduin, Franz; and Adenauer, Ernst, to Balduin, Franz. Weighing apparatus. 4,638,876, 1-27-87, Cl. 177-139.000.

Baldwin, Alan D. Dewatering screen manufacture and method thereof. 4,634,045, 1-6-87, Cl. 228-212.000.

Baldwin, Bernard A.: *See—*
- Louthan, Rector P.; Lindstrom, Merlin R.; Baldwin, Bernard A.; and Macdonell, Gary D., 4,659,490, Cl. 252-47.500.

Baldwin, Carl S.: *See—*
- Chateau, Robert E.; and Baldwin, Carl S., 4,699,379, Cl. 273-54.00B.

Baldwin, David G.; and White, Albert E. S., to Morganite Electrical Carbon Limited. Resistive wear sensors. 4,646,001, 2-24-87, Cl. 324-65.00P.

Baldwin, Donald C.: *See—*
- Loy, Robert E.; and Baldwin, Donald C., 4,655,634, Cl. 404-84.000.

Baldwin, Francis P.: *See—*
- Gardner, Irwin J.; Fusco, James V.; and Baldwin, Francis P., 4,634,741, Cl. 525-355.000.
- Gardner, Irwin J.; Fusco, James V.; and Baldwin, Francis P., 4,681,921, Cl. 525-357.000.
- Gardner, Irwin J.; Fusco, James V.; Newman, Neil F.; Kowalski, Ronald C.; Davis, William M.; and Baldwin, Francis P., 4,703,091, Cl. 525-332.300.
- Kowalski, Ronald C.; Davis, William M.; Newman, Neil F.; Foroulis, Zisis A.; and Baldwin, Francis P., 4,650,832, Cl. 525-354.000.

Baldwin, Freddie A.: *See—*
- Arthur, James C.; and Baldwin, Freddie A., 4,689,952, Cl. 60-313.000.

Baldwin, Gary; Hallgren, Robert B.; Hornak, Thomas; and Ives, Fred H., to Hewlett-Packard Company. Electronic sampler switch. 4,639,619, 1-27-87, Cl. 307-352.000.

Baldwin Hardware Corporation: *See—*
- James, Paul, 4,674,776, Cl. 292-40.000.

Baldwin, Jack E. 2-vinylpenams and process. 4,666,835, 5-19-87, Cl. 435-43.000.

Baldwin-Japan Ltd.: *See—*
- Hara, Akira; Ohnuma, Hiraku; and Takagi, Toshisaburo, 4,671,869, Cl. 210-119.000.

Baldwin, John J.; and Ponticello, Gerald S., to Merck & Co., Inc. β-adrenergic blocking imidazolylphenoxy propanolamines. 4,642,311, 2-10-87, Cl. 514-316.000.

Baldwin, John J.; and Ponticello, Gerald S., to Merck & Co., Inc. Oculoselective beta-blockers for treatment of elevated intraocular pressure. 4,665,094, 5-12-87, Cl. 514-546.000.

Baldwin, John J.; Pitzenberger, Steven M.; and McClure, David E., to Merck & Co., Inc. Substituted pyrimidines useful as calcium channel blockers. 4,675,321, 6-23-87, Cl. 514-274.000.

Baldwin, John J.; McClure, David E.; and Claremon, David A., to Merck & Co., Inc. Substituted diazapines and derivatives thereof useful in the treatment of cardiovascular disorders. 4,677,102, 6-30-87, Cl. 514-218.000.

Baldwin, John J.; Christy, Marcia E.; and Ponticello, Gerald S., to Merck & Co., Inc. Antiglaucoma thieno-thiopyran and thieno-thiepin sulfonamide derivatives, compositions, and method of use thereof. 4,677,115, 6-30-87, Cl. 514-432.000.

Baldwin, John J.; Halczenko, Wasyl; Hartman, George; and Pitzenberger, Steven M., to Merck & Co., Inc. Prodrugs of antihypercholesterolemic compounds. 4,678,806, 7-7-87, Cl. 514-539.000.

Baldwin, John J.; Huff, Joel R.; Vacca, Joseph P.; Young, Steven D.; deSolms, Jane; and Guare, James P., Jr., to Merck & Co., Inc. Antidepressant spiro hexahydro arylquinolizine derivatives, composition, and method of use therefor. 4,710,504, 12-1-87, Cl. 514-267.000.

Baldwin, John J.: *See—*
- Atkinson, Joseph G.; Baldwin, John J.; and McClure, David E., 4,656,168, Cl. 514-234.000.

Atkinson, Joseph G.; Baldwin, John J.; and McClure, David E., 4,686,222, Cl. 514-255.000.

Huff, Joel R.; Baldwin, John J.; Sakurai, Yojiro; Vacca, Joseph P.; and Guare, James P., Jr., 4,686,226, Cl. 514-285.000.

Huff, Joel R.; Vacca, Joseph P., and Baldwin, John J., 4,690,928, Cl. 514-285.000.

Veber, Daniel F.; and Baldwin, John J., 4,656,188, Cl. 514-423.000.

Baldwin, Paul L.: *See—*

Orndorff, Karl B.; Baldwin, Paul L.; and Markle, Larry M., 4,699,251, Cl. 187-1.00R.

Orndorff, Karl B.; and Baldwin, Paul L., 4,708,223, Cl. 187-1.00R.

Orndorff, Karl B.; and Baldwin, Paul L., 4,711,322, Cl. 187-1.00R.

Sherwood, Edward F.; Baldwin, Paul L.; Orndorff, Karl B.; and Dillon, Charles M., 4,635,756, Cl. 187-1.00R.

Baldwin Piano & Organ Company: *See—*

Bunger, David A.; Munch, Walter; and Withington, Russell L., 4,655,113, Cl. 84-1.030.

Conklin, Harold A., Jr., 4,674,386, Cl. 84-216.000.

Baldwin, Richard R., to Hewlett-Packard Company. Minimum dead-path interferometer and dilatometer. 4,711,574, 12-8-87, Cl. 356-349.000.

Baldwin, Robert W., to Xoma Corporation. Radioimmuno detection of human cancers using anti-tumor monoclonal antibody. 4,708,862, 11-24-87, Cl. 424-1.100.

Baldwin, Roger A.: *See—*

Barczak, Virgil J.; Baldwin, Roger A.; and Graham, Paul R., 4,702,899, Cl. 423-244.000.

Baldwin Technology Corporation: *See—*

McMahon, Raymond D.; Jellovitz, John C.; Vaile, James T.; Renn, Gregory J.; and Ondeck, Elmer J., 4,640,165, Cl. 83-346.000.

Baldwin, Vernon: *See—*

Huddle, Richard F.; Huddle, Harley E., Sr.; and Baldwin, Vernon, 4,699,162, Cl. 134-141.000.

Baldyga, Joseph, to Diamond Die & Mold Co. Wire locater for electrical terminal crimping apparatus. 4,654,952, 4-7-87, Cl. 29-566.200.

Bale, Christopher R.: *See—*

Chard, Brian C.; Hooper, John D.; and Bale, Christopher R., 4,696,311, Cl. 131-109.100.

Balembois, Claude, to Dorr-Oliver Incorporated. Process and device for improving working of liquid pumps. 4,705,462, 11-10-87, Cl. 417-395.000.

Bales, Bruce M.; London, Steven M.; and Schmidt, Nancy K., to American Telephone and Telegraph Company, AT&T Information Systems Inc. Automatic route selection of a private telephone network path on the basis of a public telephone network number. 4,661,974, 4-28-87, Cl. 379-198.000.

Bales, David W.: *See—*

Roth, James E.; and Bales, David W., 4,709,623, Cl. 98-40.050.

Bales, Emmett R.; and Huff, George L., to Meco Corporation. Charcoal cooker. 4,683,866, 8-4-87, Cl. 126-25.00B.

Bales, Emmett R.: *See—*

Huff, George L.; and Bales, Emmett R., 4,663,517, Cl. 219-404.000.

Bales, Thomas O.; and Smith, Kevin W., to Cordis Corporation. Electrosurgical catheter and method for vascular applications. 4,682,596, 7-28-87, Cl. 128-303.140.

Balestra, Luciano, to Minnesota Mining and Manufacturing Company. Silver halide photographic material for tanning development and process of producing a relief image. 4,705,738, 11-10-87, Cl. 430-264.000.

Balevski, Angel T.; Nikolov, Ivan D.; Momchilov, Emil N.; Bachvarov, Rumen D.; Ostrovski, Vassil N.; Nikolchov, Alexander S.; Stoyanov, Peyo T.; Petrov, Valentin G.; and Lyubenov, Toshko K., to Institute po Metaloznanie i Technologia na Metalite. Method of and apparatus for casting metals under pressure. 4,671,342, 6-9-87, Cl. 164-458.000.

Balevski, Teodor A.: *See—*

Paunov, Boyan I.; Balevski, Teodor A.; and Ivanov, Bojidar S., 4,635,460, Cl. 72-259.000.

Bali, Jean-Pierre: *See—*

Martinez, Jean; Bali, Jean-Pierre; Castro, Bertrand; Nisato, Dino; and Demarne, Henri, 4,636,490, Cl. 514-15.000.

Martinez, Jean; Bali, Jean-Pierre; Magous, Richard; Castro, Bertrand; and Demarne, Henri, 4,687,759, Cl. 514-18.000.

Martinez, Jean; Bali, Jean-Pierre; Magous, Richard; Castro, Bertrand; and Demarne, Henri, 4,687,760, Cl. 514-18.000.

Balian, Charles: *See—*

Agarwal, Arun K.; and Balian, Charles, 4,693,920, Cl. 428-40.000.

Baliga, Bantval J., to General Electric Company. Pinch rectifier. 4,641,174, 2-3-87, Cl. 357-58.000.

Baliga, Bantval J., to General Electric Company. Normally-off semiconductor device with low on resistance and circuit analogue. 4,645,957, 2-24-87, Cl. 307-570.000.

Baliga, Bantval J.; and Adler, Michael S., to General Electric Company. Composite circuit for power semiconductor switching. 4,663,547, 5-5-87, Cl. 307-570.000.

Balik, Karel: *See—*

Gibb, Peter R.; and Balik, Karel, 4,662,785, Cl. 405-195.000.

Balint, Janos: *See—*

Nagy, Imre Z.; Emri, Zsuzsanna; Jancso, Sandor; Csernus, Istvan; and Balint, Janos, 4,661,618, Cl. 560-62.000.

Balint, Joseph P.: *See—*

Terman, David S.; Balint, Joseph P.; and Langone, John J., 4,699,783, Cl. 424-85.000.

Balint, Joseph P., Jr.; and Hargreaves, Richard E., to IMRE Corporation. Protein A-silica immunoadsorbent and process for its production. 4,681,870, 7-21-87, Cl. 502-403.000.

Balint, Sandor; Benczik nee Pasztor, Judit; Fodor, Jozsef; Horvath, Andras; Tomordi, Elemer; Soptei, Csaba; Karsai, Jozsef; Sebestyen, Endre; Gaal, Sandor; Gardi, Ivan; Kiss, Gyorgy; Papp, Andrass; and Csatlos, Imre, to Nitrokemia Ipartelepek. Etherified 2-hydroxy-ethylphosphonic acid derivatives and plant growth regulating agents containing same as active ingredient. 4,668,274, 5-26-87, Cl. 71-86.000.

Baliozian, Mardick. Lighting appliance having high diffusion power. 4,649,463, 3-10-87, Cl. 362-17.000.

Balk, Hermann, to Reifenhauser GmbH & Co. Maschinenfabrik. Apparatus for spinning monofilaments. 4,708,619, 11-24-87, Cl. 425-141.000.

Balk, Manfred, to Henkel Kommanditgesellschaft auf Aktien. High powder density free-flowing detergent. 4,652,391, 3-24-87, Cl. 252-99.000.

Balkau, Guenter K. W.; Bez, Eckhard; and Farrant, John L., to Commonwealth Scientific and Industrial Research Organization. Reciprocatory piston and cylinder machine. 4,699,572, 10-13-87, Cl. 417-254.000.

Balke, Roy L.; Merrifield, Charles H.; and Mizikowski, Frank E., to General Electric Company. Dynamoelectric machine rotor structure having improved insulation. 4,710,662, 12-1-87, Cl. 310-204.000.

Balkenhol, Bernhard: *See—*

Lucke, Roland; and Balkenhol, Bernhard, 4,674,887, Cl. 366-325.000.

Balkus, Carl E. Gravel washer separator. 4,637,872, 1-20-87, Cl. 209-453.000.

Balkwill, Peter H.; Bishop, David I.; Pearson, Andrew D.; Sage, Ian C.; Gray, George W.; Lacey, David; Toyne, Kenneth J.; and McDonnell, Damien G. Disubstituted ethanes and their use in liquid crystal materials and devices. 4,695,131, 9-22-87, Cl. 350-350.00R.

Ball, Alan K., to Plessey Overseas Limited. Vehicle mounted Doppler radar system. 4,635,059, 1-6-87, Cl. 342-117.000.

Ball Corporation: *See—*

Doud, Wilbur O., 4,659,357, Cl. 65-83.000.

Doud, Wilbur O., 4,680,050, Cl. 65-79.000.

Edwards, Carson P.; Huisjen, Martin A.; and Munson, Robert E., 4,684,929, Cl. 340-541.000.

Evely, William W., 4,650,628, Cl. 264-531.000.

Evely, William W., 4,696,636, Cl. 425-526.000.

Lalezari, Farzin, 4,686,535, Cl. 343-700.0MS.

Lewis, Lindon L., 4,712,444, Cl. 74-479.000.

Munson, Robert E.; Haddad, Hussain A.; and Hanlen, John W., 4,684,952, Cl. 343-700.0MS.

Pora, Tom; and Grandinetti, Tony, 4,702,098, Cl. 72-351.000.

Reitsema, Harold J., 4,709,146, Cl. 250-231.0SE.

Smith, Eugene F.; and Nguyen, Tuan A., 4,641,761, Cl. 220-66.000.

Stein, Samuel R., 4,706,042, Cl. 331-94.100.

Stein, Samuel R.; Lewis, Lindon L.; and Smith, Thomas E., 4,706,043, Cl. 331-94.100.

Weidemann, Werner, 4,661,782, Cl. 331-3.000.

Wertz, Ronald D.; Orszulak, James H.; and Sweeney, Christopher L., 4,680,599, Cl. 340-744.000.

Wertz, Ronald D., 4,681,448, Cl. 356-352.000.

Wood, Charles L., 4,679,148, Cl. 364-473.000.

Ball, Daniel A., to General Motors Corporation. Retainer assembly. 4,707,768, 11-17-87, Cl. 362-66.000.

Ball, David A.; Hanna, William T.; and Wilkinson, William H., to Gas Research Institute. Absorption refrigeration and heat pump system. 4,667,485, 5-26-87, Cl. 62-476.000.

Ball, Dean: *See—*

Thoben, Matthew A.; Clowers, Earl; Cihi, Guy; Ball, Dean; McCurdy, Jack L.; and Rummelsburg, Al S., 4,645,909, Cl. 219-411.000.

Ball, Dean M.: *See—*

Brandon, Howard R., Jr.; Ball, Dean M.; and Guest, Joanathan D., 4,660,740, Cl. 222-1.000.

Jaekel, Robert W.; and Ball, Dean M., 4,672,038, Cl. 435-291.000.

Nelson, Robert J.; and Ball, Dean M., 4,689,304, Cl. 435-291.000.

Ball, Diana M.; Mabey, Peter J.; and Stein, Paul J., to U.S. Philips Corporation. Multiple access communications system. 4,672,608, 6-9-87, Cl. 370-93.000.

Ball, Donald L.; and Boateng, Daniel A. D., to Cominco Ltd. Method for the recovery of lithium from solutions by electrodialysis. 4,636,295, 1-13-87, Cl. 204-182.400.

Ball, Donald L.; and Boateng, Daniel A. D., to Cominco Ltd. Method for removal of monovalent ions from $ZnSO_4$ electrolyte by electrodialysis. 4,715,939, 12-29-87, Cl. 204-182.400.

Ball, Edmund H., to Pirelli General plc. Electrical cable having at least its leading end partially prepared for jointing prior to laying. 4,667,063, 5-19-87, Cl. 174-73.00R.

Ball, Geoffrey; Galliver, Robin; and White, Martin, to British Gas Corporation. Gas-fired water heaters. 4,658,803, 4-21-87, Cl. 126-355.000.

Ball, Gregory A., Moore, Byron E.; and Starnes, Dennis L., to Fieldcrest Cannon, Inc. Robot end effector mechanism for gripping and holding a flat textile article in a predetermined orientation. 4,688,837, 8-25-87, Cl. 294-61.000.

Ball, James. Adjusting device for a slat blind. 4,687,040, 8-18-87, Cl. 160-107.000.

Ball, Jeffrey M., to Willett International Limited. Method for applying a hot melt ink to a substrate. 4,684,956, 8-4-87, Cl. 346-1.100.

Ball, John W. Automatic drilling control system. 4,662,608, 5-5-87, Cl. 254-273.000.

Ball, Joyce A.; and McKettrick, Glen W. Heated coat liner. 4,696,066, 9-29-87, Cl. 2-272.000.

Ball, Laurence G.: *See—*
Accumanno, Mario B.; Ball, Laurence G.; and Price, Macy J., 4,688,860, Cl. 312-125.000.
Price, Macy J.; and Ball, Laurence G., 4,688,682, Cl. 211-41.000.
Ball, Lawrence E.; Griffin, William M.; Wallace, Kathleen M.; and Nemecek, Amy L., to Standard Oil Company, The. Bioresistant water-soluble alkyl substituted acrylamide polymers and enhanced oil recovery method employing same. 4,638,865, 1-27-87, Cl. 166-274.000.
Ball, Lawrence E.; Griffin, William M.; Antloga, Kathleen M.; and Nemecek, Amy L., to Standard Oil Company, The. Maleimide-modified bioresistant polymers and enhanced oil recovery method employing same. 4,653,584, 3-31-87, Cl. 166-273.000.
Ball, Lawrence E.: *See—*
Uebele, Curtis E.; Ball, Lawrence E.; Jorkasky, Richard J., II; and Wardlow, Eddie, Jr., 4,692,502, Cl. 526-193.000.
Wu, Mu-Yen M.; Ball, Lawrence E.; and Coffey, Gerald P., 4,707,538, Cl. 528-315.000.
Wu, Muyen M.; and Ball, Lawrence E., 4,666,955, Cl. 522-174.000.
Ball, Richard C., to Motor Wheel Corporation. Method and apparatus for use in surface treatment of conveyor supported workholders. 4,668,358, 5-26-87, Cl. 204-150.200.
Ball, Robert J., to Automotive Products plc. Friction clutch for a vehicle. 4,667,797, 5-26-87, Cl. 192-98.000.
Ball, Robert J.; and Maycock, Ian C., to Automotive Products plc. Diaphragm spring clutch cover assembly. 4,678,071, 7-7-87, Cl. 192-70.270.
Ball, Robert J.; and Winters, John J., to Automotive Products plc. Friction clutch with manually disconnectable release means. 4,682,680, 7-28-87, Cl. 192-98.000.
Ball, Robert J.: *See—*
Banks, John D.; Ball, Robert J.; and Symonds, Denzil J. W., 4,702,362, Cl. 192-98.000.
Ball, Stephen D., to Nissan Design International, Inc. Flush mounted door handle for automobile. 4,703,963, 11-3-87, Cl. 292-336.300.
Ball, Wilfried; Stelzer, Heinz; Ritzl, Fritz; Siebold, Hermann; Hens, Peter; and Hautmann, Edmund. Motor vehicle with an open body. 4,676,524, 6-30-87, Cl. 280-75.600.
Ball, Wolfgang: *See—*
Bachl, Robert; Warzelhan, Volker; Schweier, Guenther; Gropper, Hans; and Ball, Wolfgang, 4,710,552, Cl. 526-116.000.
Warzelhan, Volker; Bachl, Robert; Ball, Wolfgang; Funk, Guido; and Laun, Martin, 4,705,835, Cl. 526-116.000.
Ballance, John W., to British Telecommunications plc. Multipoint data communications. 4,651,330, 3-17-87, Cl. 375-108.000.
Ballance, John W.: *See—*
Hewitt, Michael T. H.; Ballance, John W.; and Scott, Richard P. I., 4,642,806, Cl. 370-95.000.
Ballantine Laboratories, Inc.: *See—*
Katzmann, Fred L., 4,695,793, Cl. 324-106.000.
Ballantyne, David B., to Multifastener Corporation. Quarter-turn fastener. 4,653,970, 3-31-87, Cl. 411-555.000.
Ballantyne, David B., to General Motors Corporation. Method of making a lubricated hinge pin. 4,679,285, 7-14-87, Cl. 29-11.000.
Ballantyne, W. John, to Urban Transportation Development Corporation Ltd. Contactless powering of LIM vehicle electrical system by recovery of LIM slip power. 4,635,560, 1-13-87, Cl. 104-292.000.
Ballarati, Vito; and Tajana, Franco, to Val Lesina S.p.A. Method for preparing warp wound on beams, starting from a series of continuous, partially-drafted thermoplastic yarns. 4,669,158, 6-2-87, Cl. 28-172.000.
Ballard, A. Stevens: *See—*
Jackson, Garth A.; and Ballard, A. Stevens, 4,658,524, Cl. 40-499.000.
Ballard, Aubrey A.: *See—*
Lee, James R.; and Ballard, Aubrey A., 4,699,630, Cl. 48-180.100.
Ballard, Danny B., to Motorola, Inc. Emulating computer. 4,638,423, 1-20-87, Cl. 364-200.000.
Ballard, David: *See—*
Lofts, Dennis; and Ballard, David, 4,664,343, Cl. 244-158.00R.
Ballard, Donna J.: *See—*
Coleman, Edward C.; Wagner, Jeffrey D.; Ballard, Donna J.; Stone, Catharine E.; Swallow, Nancy A.; and Carey, Nancy L., 4,640,837, Cl. 426-94.000.
Ballard, Gary R., to Automation Service Equipment, Inc. Guide for metering device. 4,688,697, 8-25-87, Cl. 221-298.000.
Ballard, Gary R.: *See—*
Murphy, Robert E.; Ballard, Gary R.; and Kuechenmeister, Rodney D., 4,694,953, Cl. 198-627.000.
Ballard, Gary W.; and Mamot, Robert M., to Carrier Corporation. Adaptive microprocessor control system and method for providing high and low heating modes in a furnace. 4,638,942, 1-27-87, Cl. 236-10.000.
Ballard, Gary W.; and Thompson, Kevin D., to Carrier Corporation. Method for providing variable output gas-fired furnace with a constant temperature rise and efficiency. 4,688,547, 8-25-87, Cl. 126-116.00A.
Ballard, Gary W., to Carrier Corporation. Self-correcting microprocessor control system and method for a furnace. 4,706,881, 11-17-87, Cl. 236-15.0BD.
Ballard, Gary W.: *See—*
Thompson, Kevin D.; Ballard, Gary W.; and Mamot, Robert M., 4,648,551, Cl. 236-49.000.
Thompson, Kevin D.; and Ballard, Gary W., 4,707,646, Cl. 318-332.000.
Ballard, James G.: *See—*
Liegel, Reinald D.; and Ballard, James G., 4,715,789, Cl. 417-253.000.
Ballard, Jerry L.; Chatham, Dale; and Gaulke, Gerald E. Video display control. 4,694,392, 9-15-87, Cl. 364-200.000.
Ballard, Larry N. Toy building block kit and pieces thereof. 4,676,762, 6-30-87, Cl. 446-104.000.
Ballard Medical Products: *See—*
Ford, George W., Jr.; and Palmer, Darrel R., 4,640,440, Cl. 222-190.000.
Palmer, Darrel, 4,638,539, Cl. 29-157.00R.
Palmer, Darrel, 4,696,296, Cl. 128-207.160.
Ballard, Michael J. Dynamic seal. 4,685,684, 8-11-87, Cl. 277-57.000.
Ballard, Paul S. Golf shoe. 4,704,809, 11-10-87, Cl. 36-127.000.
Ballard, Stephen C.: *See—*
Payet, George L.; and Ballard, Stephen C., 4,693,771, Cl. 156-73.300.
Ballato, Arthur, to United States of America, Army. Piezoelectric SAW device with a corrugated surface. 4,634,914, 1-6-87, Cl. 310-313.00D.
Ballato, Arthur, to United States of America, Army. Compensation of acoustic wave devices. 4,636,678, 1-13-87, Cl. 310-313.00R.
Balle, Gerhard; Grogler, Gerhard; and Meckel, Walter, to Bayer Aktiengesellschaft. Polyhydroxy compounds containing urea groups and either ester or amide groups, process for their preparation, and the use thereof. 4,704,447, 11-3-87, Cl. 528-84.000.
Ballegeer, Jean-Claude: *See—*
d'Auria, Luigi; Ballegeer, Jean-Claude; and Huu, Duyet N., 4,653,042, Cl. 370-3.000.
Balleis, Peter, to Lorenz Bolz GmbH & Co. Toy spinning top having a leg support. 4,695,263, 9-22-87, Cl. 446-256.000.
Ballendux, Gerardus M.: *See—*
Quick, David C.; McCormick, Stephen J.; and Ballendux, Gerardus M., 4,640,152, Cl. 74-767.000.
Ballenegger, Marc E.; Rimbault, Christian G.; Albert, Alban I.; Weith, Andre J.; Courbat, Pierre; Tyson, Robert G.; Palmer, Derek R.; and Thompson, David G., to Zyma SA. Pharmaceutical preparations containing (+)-cyanidan-3-ol derivatives, the use thereof, novel substituted (+)-cyanidan-3-ol derivatives, and processes for producing them. 4,644,011, 2-17-87, Cl. 514-456.000.
Ballentine, Paul H., to Carrier Corporation. Method and apparatus for measuring the pore size of enhanced tubes. 4,679,423, 7-14-87, Cl. 73-37.500.
Ballentine, Richard E.; and Henson, Robert M., to J. W. Harris Company. Solder composition. 4,695,428, 9-22-87, Cl. 420-561.000.
Ballester, Edwin, to Cozzoli Machine Co. Method and apparatus for filling a receptacle with a material. 4,640,322, 2-3-87, Cl. 141-5.000.
Ballester, Hector G., to Ameron, Inc. Grounding saddle. 4,660,908, 4-28-87, Cl. 339-14.00R.
Ballestrazzi, Aris; and Tassi, Lamberto, to SITMA Societa Italiana Macchine Automatiche S.p.A. Device for controlling the unwinding of a plastics film in a packaging machine. 4,693,053, 9-15-87, Cl. 53-389.000.
Ballestrazzi, Aris; and Tassi, Lamberto, to Sitma Societa Italiana Macchine Automatiche S.p.A. Centralized drive device in a packaging machine. 4,709,530, 12-1-87, Cl. 53-209.000.
Ballestrazzi, Aris; and Tassi, Lamberto, to Sitma- Societa Italiana Macchine Automatiche S.p.A. Longitudinal welding equipment in a packer machine. 4,709,537, 12-1-87, Cl. 53-550.000.
Balleys, Francois, to Charmilles Technologies S.A. Travelling wire EDM apparatus with monitoring of the number of electrical discharges occurring in a sector of the active portion of the electrode wire. 4,691,089, 9-1-87, Cl. 219-69.00W.
Ballhause, Helmut: *See—*
Nickl, Josef; Muller, Erich; Narr, Benthold; Ballhause, Helmut; and Haarmann, Walter, 4,678,792, Cl. 514-307.000.
Ballheimer, Benny, to Caterpillar Inc. Engine having a multipiece cylinder block. 4,638,769, 1-27-87, Cl. 123-41.840.
Ballies, Uwe. Cap for a tube for extracting blood. 4,643,198, 2-17-87, Cl. 128-763.000.
Balling, Lawrence A.: *See—*
Marcina, George L.; Lawlor, Francis E.; Beemer, Paul H.; and Balling, Lawrence A., 4,652,395, Cl. 252-301.350.
Ballmer, Horst; and Kramer, Henry, to Carl-Zeiss-Stiftung. Circuit arrangement for performing rapid sortation or selection according to rank. 4,651,301, 3-17-87, Cl. 364-900.000.
Ballmoos, Roland V.: *See—*
Derouane, Eric G.; and Ballmoos, Roland V., 4,713,227, Cl. 423-305.000.
Ballon-Mueller AG: *See—*
Nelson, David C.; Fresh, Michael J.; and Mueller, Herbert, 4,715,841, Cl. 446-222.000.
Balloni, Ricardo; Donovan, Kevin M.; and Keung, Jay K., to Mobil Oil Corporation. Polymer film laminate and method for its preparation. 4,659,612, 4-21-87, Cl. 428-213.000.
Balloni, Ricardo: *See—*
Keung, Jay K.; Donovan, Kevin M.; and Balloni, Ricardo, 4,692,379, Cl. 428-349.000.
Ballou, Jon M., to Varian Associates, Inc. Low compliance seal for gas-enhanced wafer cooling in vacuum. 4,671,204, 6-9-87, Cl. 118-59.000.
Ballschuh, Detlef; Seibt, Horst; Rusche, Jochen; and Ohme, Roland, to Akademie der Wissenschaften der DDR. Novel 2-substituted 3-sulfopropyl-ammonium betaines and processes for making same. 4,687,602, 8-18-87, Cl. 260-501.120.

Ballu, Patrick J. M., to Tecnoma. Diaphragm pumps with improved structural cooling and maintenance. 4,710,109, 12-1-87, Cl. 417-454.000.

Ballun, John V.; and Gain, Lorand H., Jr., to AMSTED Industries Incorporated. Post assembly for a buried valve. 4,702,275, 10-27-87, Cl. 137-556.000.

Ballun, John V.: *See—*

Sharp, Steve M.; Holstrom, John R.; Gain, Lorand H., Jr.; and Ballun, John V., 4,708,160, Cl. 137-368.000.

Bally, Alex; and Kraeuter, Charles, to Bally Orthodontics Group, The. Apparatus for dispensing elastic bands and associated method. 4,668,186, 5-26-87, Cl. 433-3.000.

Bally Manufacturing Corporation: *See—*

Frederiksen, Jeffrey E., 4,685,678, Cl. 273-148.00B.

Kolomayets, George; Ryan, Allen; Nieto, Augustine; and Andrus, Bryan, 4,714,244, Cl. 272-72.000.

Koza, John R.; La Marre, Norman T.; and Keane, Martin A., 4,652,998, Cl. 364-412.000.

Olliges, William E., 4,648,600, Cl. 273-138.00A.

Pajak, Phillip; Salmons, Victor; and Chan, Tony, 4,711,451, Cl. 273-143.00R.

Pasierb, John J., Jr.; Nieto, Augustine; Andrus, Bryan; Kolomayets, George; Oglesby, Gary; and Ryan, Allen, 4,674,741, Cl. 272-72.000.

Vazquez, Hilario, Jr.; and Yarnold, Paul R., 4,695,053, Cl. 273-143.00R.

Bally Orthodontics Group, The: *See—*

Bally, Alex; and Kraeuter, Charles, 4,668,186, Cl. 433-3.000.

Balmer, Oskar: *See—*

Focke, Heinz; and Balmer, Oskar, 4,680,024, Cl. 493-197.000.

Focke, Heinz; and Balmer, Oskar, 4,711,349, Cl. 206-260.000.

Balog, Georg E.: *See—*

Johnsen, John N.; and Balog, Georg E., 4,644,097, Cl. 174-102.00R.

Balog, Leonard J., to Westinghouse Electric Corp. Locking screw apparatus and method for underwater remote replacement. 4,683,108, 7-28-87, Cl. 376-260.000.

Baloga, Mark A., to Steelcase Inc. Space partition module. 4,715,154, 12-29-87, Cl. 52-239.000.

Balogh, Francis, to Star Headlight & Lantern Company, Inc. Flash lamp circuit. 4,684 852, 8-4-87, Cl. 315-241.00R.

Balogh, John M.: *See—*

Balogh, Thomas K.; and Balogh, John M., 4,681,405, Cl. 350-420.000.

Balogh, Thomas K.; and Balogh, John M. Method and lens for producing a wide angle image. 4,681,405, 7-21-87, Cl. 350-420.000.

Baloh, Frank J.: *See—*

Lott, Randy G.; and Baloh, Frank J., 4,683,103, Cl. 376-209.000.

Balomenos, Robert J. Adjustable drive belt. 4,642,081, 2-10-87, Cl. 474-253.000.

Balph, Thomas J.; and Loyer, Bruce A., to Motorola Inc. Request with response mechanism and method for a local area network controller. 4,700,185, 10-13-87, Cl. 340-825.060.

Balquet, Robert; Baubeau, Robert; Bertrand, Jean-Paul; Guezou, Jean-Pierre; and Carron, Philippe, to L'Etat Francais represente par le Delegue General pour l'Armement. Hull shapes for surface effect ship with side walls and two modes of operation. 4,708,077, 11-24-87, Cl. 114-67.00A.

Balquet, Robert J.: *See—*

Bertrand, Jean-Paul A.; Guezou, Jean-Pierre R.; Balquet, Robert J.; Marcouyoux, Sylvain J. A.; and Jodelet, Francois C. L., 4,646,866, Cl. 180-126.000.

Balsells, Joan C.: *See—*

Balsells, Peter J., 4,655,462, Cl. 277-164.000.

Balsells, Peter J., 4,655,945, Cl. 252-124.000.

Balsells, Peter J., 4,678,210, Cl. 285-318.000.

Balsells, Peter J., to Balsells, Peter J.; and Balsells, Joan C. Canted coiled spring and seal. 4,655,462, 4-7-87, Cl. 277-164.000.

Balsells, Peter J., to Balsells, Peter J.; and Balsells, Joan C. Bearing seal and method of manufacture. 4,655,945, 4-7-87, Cl. 252-124.000.

Balsells, Peter J., to Balsells, Peter J.; and Balsells, Joan C. Loading and locking mechanism. 4,678,210, 7-7-87, Cl. 285-318.000.

Balston, Neil K.; Anderson, Keith D.; and Willemsen, Herman W., to Northern Telecom Limited. Optical disc having protective cover. 4,672,600, 6-9-87, Cl. 369-275.000.

Baltensperger, Eduard. Track-laying auxiliary thrust vehicle. 4,657,099, 4-14-87, Cl. 180-9.280.

Balter, Valentin, to Huntington Mechanical Laboratories, Inc. Rotary motion feed-through apparatus. 4,683,763, 8-4-87, Cl. 74-18.100.

Baltes, Heinrich P.; and Huiser, Andre M. J., to Lgz Landis & Gyr Zug AG. Method and an apparatus for determining the genuineness of a security blank. 4,710,627, 12-1-87, Cl. 250-339.000.

Baltes, Heinrich P.: *See—*

Popovic, Radivoje; Baltes, Heinrich P.; and Zajc, Tomislav, 4,677,380, Cl. 324-252.000.

Popovic, Radivoje; and Baltes, Heinrich P., 4,700,211, Cl. 357-27.000.

Baltes, Horst: *See—*

Schrom, Ralf-H.; and Baltes, Horst, 4,711,493, Cl. 297-379.000.

Stenz, Karl; and Baltes, Horst, 4,707,033, Cl. 297-452.000.

Balthazor, Terry M.; and Pulwer, Mitchell J., to Monsanto Company. Process for the preparation of a glyphosate product. 4,654,429, 3-31-87, Cl. 558-145.000.

Baltimore Aircoil Company, Inc.: *See—*

Cates, Robert E., 4,683,101, Cl. 261-146.000.

Flamm, Katherine K.; Gilley, J. Kyle; Geary, David F.; and Schinner, Edward N., 4,691,769, Cl. 165-158.000.

Geary, David F.; Flamm, Katherine K.; and Morrison, Frank T., 4,699,211, Cl. 165-159.000.

Baltz, Gene F.; and Breckenfeld, Paul W., to Outboard Marine Corporation. Fuel primer and enrichment system for an internal combustion engine. 4,660,516, 4-28-87, Cl. 123-187.50R.

Baltz, Richard H.: *See—*

Turner, Jan R.; Krupinski, Veronica M.; Fukuda, David S.; and Baltz, Richard H., 4,656,258, Cl. 536-7.100.

•Baltzer, Erich, to Hergeth Hollingsworth GmbH. Apparatus for the production of short warps especially for cloth designs in multicolor weaving. 4,683,625, 8-4-87, Cl. 28-191.000.

Baluteau, Jean-Michel; Saint-Sevin, Michel; and Chabanier, Patrick, to Societe d'Optique, Precision Electronique et Mecanique-Sopelem. Observation apparatus. 4,637,692, 1-20-87, Cl. 350-486.000.

Balyasny, Marik. Apparatus for cleaving an optical fiber. 4,674,666, 6-23-87, Cl. 225-96.000.

Balz, Jurgen, to Schubert & Salzer. Slide gate valve. 4,643,226, 2-17-87, Cl. 137-625.330.

Balz, Werner; Muenzner, Wulf; Schomann, Klaus D.; Berger, Heinz; and Roos, Roland, to BASF Aktiengesellschaft. Magnetic tape cassette with equalization of electrostatic charges. 4,712,148, 12-8-87, Cl. 360-132.000.

Balz, Werner: *See—*

Kohl, Albert; Melzer, Milena; Lehner, August; Schneider, Norbert; Koester, Eberhard; Balz, Werner; Sommermann, Friedrich; and Ricker, Ernst, 4,668,586, Cl. 428-411.100.

Lehner, August; Kohl, Albert; Balz, Werner; Sommermann, Friedrich; Velic, Milan; Grau, Werner; and Baur, Reinhold, 4,647,513, Cl. 428-694.000.

Lehner, August; Kohl, Albert; Roller, Hermann; Balz, Werner; Koester, Eerhard; and Sommermann, Friedrich, 4,656,093, Cl. 428-403.000.

Lehner, August; Heil, Guenter; Kovacs, Jenoe; Balz, Werner; and Lenz, Werner, 4,666,781, Cl. 428-425.900.

Lehner, August; Balz, Werner; Lenz, Werner; Kohl, Albert; and Heil, Guenter, 4,671,969, Cl. 427-48.000.

Lehner, August; Heil, Guenter; Lenz, Werner; Balz, Werner; Kohl, Albert; and Schornick, Gunnar, 4,673,591, Cl. 427-48.000.

Balzano, Quirino: *See—*

Garay, Oscar; Turner, Harvey N., Jr.; and Balzano, Quirino, 4,661,992, Cl. 455-89.000.

Balzano, Savino, to Metallurgiche Balzano S.p.A. Tool for peeling and coring pineapples and the like. 4,690,047, 9-1-87, Cl. 99-542.000.

Balzer, Claude P.; and Rumsey, Roger L., to Balco, Inc. Roll up floor mat. 4,654,245, 3-31-87, Cl. 428-52.000.

Balzer, Daniel L.: *See—*

Petersen, Jacob E.; and Balzer, Daniel L., 4,646,994, Cl. 244-158.00R.

Balzer, Dieter, to Huels Aktiengesellschaft. Process for increasing injectability of injection wells in oil extraction by means of water flooding. 4,705,110, 11-10-87, Cl. 166-274.000.

Balzer, Wolf-Dieter; Bechtolsheimer, Hans-Heinrich; Beyer, Karl-Heinz; Fikentscher, Rolf; Perner, Johannes; Widder, Rudi; and Wolf, Helmut, to Basf Aktiengesellschaft. Preparation of alkali metal and alkaline earth metal salts of acyloxybenzenesulfonic acids. 4,693,848, 9-15-87, Cl. 260-402.000.

Balzer, Wolf-Dieter; Bechtolsheimer, Hans-Heinrich; Beyer, Karl-Heinz; Fikentscher, Rolf; Perner, Johannes; Widder, Rudi; and Wolf, Helmut, to BASF Aktiengesellschaft. Preparation of acyloxybenzenesulfonic acids and their alkali metal and alkaline earth metal salts. 4,695,412, 9-22-87, Cl. 260-507.00R.

Balzer, Wolf-Dieter; Bechtolsheimer, Hans-Heinrich; Beyer, Karl-Heinz; Fikentscher, Rolf; Perner, Johannes; Widder, Rudi; and Wolf, Helmut, to BASF Aktiengesellschaft. Preparation of acyloxybenzenesulfonic acids and their alkali metal and alkaline earth metal salts. 4,705,649, 11-10-87, Cl. 260-402.000.

Balzer, Wolf-Dieter: *See—*

Lorenz, Klaus; Balzer, Wolf-Dieter; Wolf, Helmut; Trieselt, Wolfgang; and Busse, Gerd, 4,704,453, Cl. 536-18.600.

Balzers Aktiengesellschaft: *See—*

Bracher, Bernhard; Baumann, Karl; and Staub, Hermann, 4,643,128, Cl. 118-503.000.

Moll, Eberhard; Lardon, Marcel; and Muller, Edgar, 4,641,450, Cl. 42-76.020.

Rille, Eduard; Kaiser, Erich; and Grunenfelder, Pius, 4,668,373, Cl. 204-298.000.

Bamberger, Eric N.; Clark, John C., Jr.; and Nahm, Alexander H., to General Electric Company. Rolling element bearing member. 4,659,241, 4-21-87, Cl. 384-625.000.

Bambrick, William E., to American Cyanamid Company. Shape for extruded catalyst support particles and catalysts. 4,673,664, 6-16-87, Cl. 502-439.000.

Bamford, William C.; and Ichijo, Yasuhiro, to Molex Incorporated. Hingeable electrical connector. 4,657,320, 4-14-87, Cl. 339-4.000.

Bamfords International Limited: *See—*

Robb, John, 4,644,739, Cl. 56-341.000.

Bamji, Pervez J. F.; Evans, John F.; and Fitzpatrick, Nigel P., to Alcan International Limited. Melting scrap metal and ingestion of solids in molten metal. 4,704,162, 11-3-87, Cl. 75-10.140.

Bammel, Stanley E.: *See—*

Beilfuss, Robert C.; Lanier, David M.; Bammel, Stanley E.; Huang, Terry J.; and Banks, David M., 4,695,246, Cl. 431-31.000.

Bampfield, Howard A.: *See—*

Villamagna, Fortunato; and Bampfield, Howard A., 4,689,096, Cl. 149-2.000.

Bams, Gijsbert W.; and van Megen, Wilhelmus H., to Thomas J. Lipton, Inc. Edible water-in-oil-in-water emulsion. 4,650,690, 3-17-87, Cl. 426-602.000.

Ban, Amir: *See—*
Paltiel, Zvi; and Ban, Amir, 4,714,885, Cl. 324-312.000.

Ban, Itsuki; and Nakajima, Akihiro. Apparatus for removing torque ripples in direct-current motors. 4,645,991, 2-24-87, Cl. 318-331.000.

Ban, Itsuki; Kii, Toshiyuki; and Mitsuta, Yuji. Blind guide device. 4,648,710, 3-10-87, Cl. 356-4.000.

Ban, Itsuki. Semiconductor electric motor having a rotary transformer to excite a rotor. 4,698,563, 10-6-87, Cl. 318-254.000.

Ban, Itsuki; and Mitsuta, Yuji. Blind person guide device. 4,712,003, 12-8-87, Cl. 250-221.000.

Ban, Keisuke, to Honda Giken Kogyo Kabushiki Kaisha. Fiber-reinforced lightweight alloy piston for an internal-combustion engine and associated method. 4,643,078, 2-17-87, Cl. 92-212.000.

Ban, Keisuke; and Daimaru, Akimasa, to Honda Giken Kogyo Kabushiki Kaisha. Fiber-reinforced piston for internal combustion engines and associated method of construction. 4,677,901, 7-7-87, Cl. 92-213.000.

Ban, Megumu, to Toyota Jidosha Kabushiki Kaisha. Structure for mounting engine auxiliaries. 4,697,782, 10-6-87, Cl. 248-639.000.

Ban, Mikichi, to Canon Kabushiki Kaisha. Wave front aberration measuring apparatus. 4,711,576, 12-8-87, Cl. 356-353.000.

Ban, Takao: *See—*
Ohno, Sachio; Ebihara, Yuko; Mizukoshi, Kiyoshi; Ichihara, Kenji; Ban, Takao; and Nagasaka, Mitsuaki, 4,713,457, Cl. 546-67.000.

Ban, Tatsuzo, to Toyohashi Braided Rope Industrial Co., Ltd. Method of connecting a fishing net. 4,644,679, 2-24-87, Cl. 43-7.000.

Ban, Thomas R.; Dusterhoft, Ernest E.; and Gilmore, John E., to Tricon Industries. Material spreader. 4,678,365, 7-7-87, Cl. 404-118.000.

Ban, Tsuyako: *See—*
Okuyama, Yuji; Kishi, Kenichi; Tuzita, Kenzi; and Ban, Tsuyako, 4,654,287, Cl. 430-106.600.

Banas, Conrad M.; and Doyle, Brian M., to United Technologies Corporation. Twin spot laser welding. 4,691,093, 9-1-87, Cl. 219-121.0LC.

Banas, Dale, to Cleveland Controls, Incorporated. Trim linkage. 4,649,767, 3-17-87, Cl. 74-479.000.

Banasiak, Dennis S.; Mozdzen, Edward C.; and Byers, Jim D., to Phillips Petroleum Company. Metallotetradecadiene compounds. 4,687,867, 8-18-87, Cl. 556-52.000.

Banasiak, Joseph; and Powers, Samuel L., to Miniature Electronics, Inc. Display apparatus for playing card suits. 4,702,479, 10-27-87, Cl. 273-148.00R.

Banaszewski, Sharon L.: *See—*
Srinivasan, Nallaswamy; Banaszewski, Sharon L.; and Acharya, Kishore C., 4,680,709, Cl. 364-414.000.

Banati, Gabor: *See—*
Hiros, Laszlo; Banati, Gabor; and Lipscher, Ervin, 4,682,265, Cl. 361-231.000.

Banavar, Jayanth R.: *See—*
Kenyon, William E.; Baker, Paul L.; Sen, Pabitra N.; and Banavar, Jayanth R., 4,703,277, Cl. 324-323.000.

Banba, Nobuo: *See—*
Funato, Hiroyoshi; and Banba, Nobuo, 4,712,852, Cl. 350-371.000.

Banba, Takashi: *See—*
Hiraishi, Shigetoshi; Kondo, Kazuyoshi; and Banba, Takashi, 4,644,374, Cl. 346-209.000.

Banbury, John R., to United Kingdom of Great Britain and Northern Ireland, The Secretary of State for Defence in Her Britannic Majesty's Government of the. Display systems. 4,714,320, 12-22-87, Cl. 350-174.000.

Banchetti, Paris. Practical stick bass. 4,646,613, 3-3-87, Cl. 84-327.000.

Bancke, Glenn A.: *See—*
Herman, Herbert; Fischman, Gary S.; and Bancke, Glenn A., 4,704,298, Cl. 427-34.000.

Bancon, Georges: *See—*
Potters, Michel; and Bancon, Georges, 4,635,988, Cl. 294-64.100.

Bancon, Georges R., to Societe Syspro. Tool-holder for industrial robot. 4,636,135, 1-13-87, Cl. 414-730.000.

Bancroft, F. Carter: *See—*
White, Bruce A.; and Bancroft, F. Carter, 4,677,054, Cl. 435-6.000.

Bancroft, Joseph C., to Croft Metals, Inc. Hinge pin. 4,713,861, 12-22-87, Cl. 16-222.000.

Bancroft, Peter, to Banson Nominees Pty. Ltd. Pads and their formation. 4,662,970, 5-5-87, Cl. 156-256.000.

Bancroft, Roger N., to Automotive Products plc. Clutch cover assembly. 4,697,685, 10-6-87, Cl. 192-109.00R.

BancTec, Inc.: *See—*
Shores, Rex W.; Martin, Robert H.; and Maclean, George, 4,662,626, Cl. 271-305.000.
Van Tyne, Richard G., 4,672,186, Cl. 235-470.000.

Band, Elliot I.; and Summers, William E., III, to Stauffer Chemical Company. Transition metal catalyst component containing magnesium alkoxy alkoxides. 4,698,323, 10-6-87, Cl. 502-133.000.

Band, Gerhard; and Ross, Gunther, to Mauser-Werke Oberndorf GmbH. Portal type coordinate measuring machine. 4,651,426, 3-24-87, Cl. 33-1.00M.

Band, Gerhard; Berger, Gunter; and Walter, Kurt, to Mauser-Werke Oberndorf GmbH. Quill for coordinate measuring machines. 4,651,439, 3-24-87, Cl. 33-559.000.

Band-It-Houdaille, Inc.: *See—*
Jansen, George A., 4,646,591, Cl. 81-9.300.

Band & Olufsen A/S: *See—*
Jensen, Jorgen S., 4,706,289, Cl. 381-56.000.

Band, Philip: *See—*
Balazs, Endre A.; Leshchiner, Adolf; Leshchiner, Adelya; and Band, Philip, 4,713,448, Cl. 536-55.100.

Bandag Licensing Corporation: *See—*
Brewer, Donaldee; Seiler, Ronald R.; and Niedergeses, Thomas J., 4,634,357, Cl. 425-36.000.

Bandai, Yasuhito: *See—*
Igi, Hisashi; Ohta, Eiichi; Bandai, Yasuhito; and Takagi, Kazuhiko, 4,687,352, Cl. 400-73.000.
Sakakibara, Kenji; Harano, Tetsuo; Bandai, Yasuhito; and Ohta, Eiichi, 4,684,999, Cl. 358-294.000.

Bandai, Yoshiaki, to Kabushiki Kaisha Toshiba. Graphic memory system for interarea transfer of X-Y coordinate data. 4,706,213, 11-10-87, Cl. 364-900.000.

Bandak, Michel N.: *See—*
Gottwald, William H.; Bandak, Michel N.; and Bitzer, Thomas N., 4,658,941, Cl. 188-377.000.

Bandara, Upali; and Hinkel, Holger, to International Business Machines Corporation. Method for lowering the frictional coefficient of the magnetic head-disk interface in a lubricated magnetic disk storage system. 4,692,832, 9-8-87, Cl. 360-137.000.

Bandara, Upali; Hinkel, Holger; Steiner, Werner; and Trippel, Gerhard, to International Business Machines Corporation. Magnetic disk and method of making same. 4,710,424, 12-1-87, Cl. 428-325.000.

Bandari, Ardeshir: *See—*
Dunnigan, Gerald; and Bandari, Ardeshir, 4,641,013, Cl. 219-364.000.

Bandel, Rudolf: *See—*
Schroder, Joachim; Bozung, Hanns-Gunter; Bandel, Rudolf; and Mendle, Hans, 4,689,960, Cl. 60-607.000.

Bandelow, Vernon D.: *See—*
Brizgis, Lawrence J.; Keleher, Daniel B.; and Bandelow, Vernon D., 4,713,781, Cl. 364-552.000.

Bander, Neil H.; Whitmore, Willet F.; and Old, Lloyd J., to Sloan-Kettering Institute for Cancer Research. Monoclonal antibody panel for early diagnosis and therapy of renal carcinoma. 4,713,352, 12-15-87, Cl. 436-548.000.

Bandera, Gianluigi, to Costruzioni Aeronautiche Giovanni Agusta S.p.A. Helicopter with a turbine power unit fitted with an exhaust screening device. 4,713,933, 12-22-87, Cl. 60-39.500.

Bandlish, Baldev K.: *See—*
Roark, David N.; Nugent, Adam, Jr.; and Bandlish, Baldev K., 4,657,948, Cl. 523-130.000.
Roark, David N.; Nugent, Adam, Jr.; and Bandlish, Baldev K., 4,698,380, Cl. 524-2.000.
Roark, David N.; Nugent, Adam, Jr.; and Bandlish, Baldev K., 4,706,755, Cl. 166-295.000.

Bando, Akira: *See—*
Haraguchi, Eiji; Nakagawa, Hiroto; Bando, Akira; Kuwahara, Takao; Nohara, Haruo; and Ono, Kenichi, 4,694,189, Cl. 290-40.00C.

Bando Chemical Industries, Ltd.: *See—*
Matsuoka, Hiroshi; and Onoe, Susumu, 4,710,155, Cl. 474-260.000.
Takashima, Takashi, 4,655,732, Cl. 474-201.000.
Takeuchi, Koichi; Yamanaka, Megumi; Inada, Hisanobu; Kubo, Masayoshi; Katayama, Hideaki; Tokunaga, Kenji; and Miyamoto, Yoshinori, 4,649,780, Cl. 82-48.000.
Takeuchi, Koichi; Yamanaka, Megumi; Kubo, Masayoshi; Katayama, Hideaki; and Tokunaga, Kenji, 4,710,255, Cl. 156-361.000.

Bando Kagaku Kabushiki Kaisha: *See—*
Matsunaga, Yasuyuki, 4,648,856, Cl. 474-237.000.
Nonomiya, Kojiro; and Sakuma, Satoru, 4,662,274, Cl. 99-620.000.

Bando, Kazuyoshi: *See—*
Fukawa, Kazunaga; Bando, Kazuyoshi; Hatanaka, Yoshikazu; and Nakazato, Kikuo, 4,652,581, Cl. 514-418.000.

Bando Kiko Co., Ltd.: *See—*
Bando, Shigeru, 4,660,327, Cl. 51-110.000.
Bando, Shigeru, 4,698,088, Cl. 65-174.000.

Bando, Shigeru, to Bando Kiko Co., Ltd. Glass plate grinding apparatus. 4,660,327, 4-28-87, Cl. 51-110.000.

Bando, Shigeru, to Bando Kiko Co., Ltd. Glass plate fabrication machine under automatic control. 4,698,088, 10-6-87, Cl. 65-174.000.

Bando, Toshiro; and Kozaiku, Kiyoto, to Ricoh Company, Ltd. Alternating current load power controller. 4,661,765, 4-28-87, Cl. 323-241.000.

Bando, Yoshiaki; Asano, Teruyoshi; Kato, Shigenobu; and Tanioka, Katsuhiko, to Seikisui Kagaku Kogyo Kabushiki Kaisha. Ball valve. 4,678,161, 7-7-87, Cl. 251-171.000.

Bando, Yoshiaki: *See—*
Takeda, Shinji; Asano, Teruyoshi; and Bando, Yoshiaki, 4,667,926, Cl. 251-170.000.

Bandoh, Shunichi: *See—*
Niwa, Yoshiyuki; Kashiwagi, Masahiro; Yasue, Masahiro; Bandoh, Shunichi; Kakinuma, Asao; and Wakatsuki, Tadashi, 4,676,720, Cl. 416-134.00A.

Bandoh, Tadaaki: *See—*
Kobayashi, Takao; Abe, Shigeo; Bandoh, Tadaaki; Takatoo, Masao; Matsumoto, Hidekazu; and Hara, Hideyuki, 4,644,490, Cl. 364-748.000.

Bandou, Masaaki; Sugita, Masao; and Marumo, Takachi, to Jidosha Kiki Co., Ltd. Method of manufacturing a valve sleeve. 4,706,487, 11-17-87, Cl. 72-355.000.

Bandt, Hagen; and Zundorf, Heinz, to Wolff Walsrode Aktiengesellschaft. Process for packing tubular shirred food tubular casings. 4,671,414, 6-9-87, Cl. 206-802.000.

Bandura, Daniel: *See—*

Dolhen, Gerard; Oberlin, Claude; Lemarquis, Jean-Claude; and Bandura, Daniel, 4,705,259, Cl. 251-61.100.

Bandurco, Victor T.; Mallory, Robert A.; Press, Jeffrey B.; and Werblood, Harvey M., to Ortho Pharmaceutical Corporation. Process for the preparation of 8-halo-5,6-dialkoxyquinazoline-2,4-diones and their salts. 4,634,769, 1-6-87, Cl. 544-285.000.

Bandurco, Victor T.; Bell, Stanley C.; Combs, Donald W.; Falotico, Robert; and Tobia, Alfonso J., to Ortho Pharmaceutical Corporation. Substituted quinazolinediones. 4,639,518, 1-27-87, Cl. 544-285.000.

Bandurco, Victor T.; Levine, Seymour D.; Mulvey, Dennis M.; and Tobia, Alfonso J., to Ortho Pharmaceutical Corporation. Substituted 2(1H)-quinazolinone-1-alkanoic acids and esters. 4,656,267, 4-7-87, Cl. 544-119.000.

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Bane, William. Reusable insulated box and method of manufacture. 4,642,970, 2-17-87, Cl. 53-433.000.

Banerjea, Tara N., to Monon Corporation. Plate trailer. 4,685,721, 8-11-87, Cl. 296-181.000.

Banerjee, Chandra K.; Farrier, Ernest G.; Reynolds, John H., IV; Ridings, Henry T.; Sensabaugh, Andrew J., Jr.; Shannon, Michael D.; and Shelar, Gary R., to R. J. Reynolds Tobacco Company. Smoking article. 4,714,082, 12-22-87, Cl. 131-359.000.

Banerjee, Dipak: *See—*

Pollard, Harvey B.; Ornberg, Richard; Banerjee, Dipak; Youdim, Moussa; Lelkes, Peter; and Heldman, Eli, 4,670,394, Cl. 435-240.000.

Banerjee, Hari N., to Northern Telecom Limited. Solder resist paste and method of soldering. 4,634,039, 1-6-87, Cl. 228-118.000.

Banerjee, Pradip; and Keswick, Paul D., to Advanced Micro Devices, Inc. High speed, low power, multi-bit, single edge-triggered, wraparound, binary counter. 4,700,370, 10-13-87, Cl. 377-55.000.

Banerjee, Pradip K., to Menley & James Laboratories, Ltd. Compositions and method of controlling transdermal penetration of topical and systemic agents. 4,692,462, 9-8-87, Cl. 514-449.000.

Banerjee, Sanjay K.: *See—*

Womack, Richard H.; Banerjee, Sanjay K.; Shichijo, Hisashi; and Malhi, Satwinder, 4,713,678, Cl. 357-23.600.

Baney, Ronald H.; and Bujalski, Duane R., to Dow Corning Corporation. Ceramic materials from silazane polymers. 4,666,872, 5-19-87, Cl. 501-88.000.

Banfi, Claudio, to General Electric Company. Closing delay arrangement for current limiting circuit breaker contacts. 4,695,690, 9-22-87, Cl. 200-147.00R.

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Pinza, Mario; Farina, Carlo; Banfi, Silvano; and Pfeiffer, Ugo, 4,703,054, Cl. 514-386.000.

Banfield, Charles E., to Epoxy Technology, Inc. Method and compositions for removal of moisture. 4,637,197, 1-20-87, Cl. 53-428.000.

Bangel, James M.: *See—*

Lee, William E., III; Bangel, James M.; White, Robert L.; and Bruno, David J., Jr., 4,645,679, Cl. 426-560.000.

Bangert, Dieter, to Alfred Teves GmbH. Brake shoe arrangement and a method of manufacturing a brake shoe. 4,643,277, 2-17-87, Cl. 188-1.110.

Bangerter, Richard M. Apparatus and methods for electrical signal discrimination. 4,667,065, 5-19-87, Cl. 379-351.000.

Bangs, Richard G.; and Grey, Michael O., to NCR Corporation. Thermal print head. 4,661,823, 4-28-87, Cl. 346-76.0PH.

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Palmer, Richard J.; Banham, Raymond; and Woodcock, Colin, 4,664,382, Cl. 273-77.00A.

Banholzer, Rolf; Merz, Herbert; Stockhaus, Klaus; and Jennewein, Hans M., to Boehringer Ingelheim KG. N-(3-trifluoromethylphenyl)-N'-propargyl-piperazine and salts thereof useful as analgesics. 4,699,910, 10-13-87, Cl. 514-255.000.

Bania, Paul J., to Titanium Metals Corporation of America (TIMET). Production of titanium articles that are free from low density inclusions. 4,678,506, 7-7-87, Cl. 75-10.250.

Banich, Howard P.; and Norton, Daniel E., to Wolverine World Wide, Inc. Toe off athletic shoe. 4,694,591, 9-22-87, Cl. 36-102.000.

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Cais, Michael; Shimoni, Moshe; and Baniel, Abraham, 4,645,747, Cl. 436-500.000.

Banik, Upendra. Gastrointestinal compositions. 4,689,229, 8-25-87, Cl. 424-195.100.

Bank, Graham; Scaife, Stephen; and Millward, Gareth, to Wharfedale Loudspeaker Limited. Moving-coil loudspeaker unit. 4,680,800, 7-14-87, Cl. 381-194.000.

BankAmerica Corporation: *See—*

Schieler, Leroy, 4,668,245, Cl. 44-53.000.

Schieler, Leroy, 4,671,121, Cl. 73-317.000.

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Weber, Adolf; Strauss, Hans; and Bankel, Adolf, 4,693,180, Cl. 102-274.000.

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Banker, Henry: *See—*

Conlogue, James H.; and Banker, Henry, 4,690,115, Cl. 123-366.000.

Bankers Trust Co.: *See—*

Bullock, Joseph J., 4,676,389, Cl. 215-232.000.

Bullock, Joseph J., 4,678,094, Cl. 215-256.000.

Bullock, Joseph J., 4,699,287, Cl. 215-256.000.

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Nolan, Robert L., 4,699,286, Cl. 215-256.000.

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Bankier, Jack D., 4,635,797, Cl. 206-472.000.

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Bankit, Paul; and Crouse, Edward B. Method and compositions for sodium selenite administration. 4,668,515, 5-26-87, Cl. 424-164.000.

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Banks, Adam J. Down rigger boom hinge. 4,641,395, 2-10-87, Cl. 16-348.000.

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Sovey, James S.; Banks, Bruce A.; and Mirtich, Michael J., 4,664,980, Cl. 428-421.000.

Banks, Christopher P.; and Irving, Edward, to Ciba-Geigy Corporation. Method of electrocoating metallic surfaces. 4,640,753, 2-3-87, Cl. 204-181.700.

Banks, David M.: *See—*

Beilfuss, Robert C.; Lanier, David M.; Bammel, Stanley E.; Huang, Terry J.; and Banks, David M., 4,695,246, Cl. 431-31.000.

Banks, Donald D. Double loop strap fastener with release tabs. 4,670,945, 6-9-87, Cl. 24-170.000.

Banks, Edward J. K.; and Richardson, David J. Apparatus for supervising access to individual items. 4,635,053, 1-6-87, Cl. 340-825.310.

Banks, Geoffrey T.; and Browning, Paul D., to Imperial Biotechnology Limited. Fermentation process for the production of polysaccharides. 4,692,408, 9-8-87, Cl. 435-104.000.

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Banks, John D., to Automotive Products plc. Clutch and release bearing assembly. 4,702,361, 10-27-87, Cl. 192-98.000.

Banks, John D.; Ball, Robert J.; and Symonds, Denzil J. W., to Automotive Products plc. Friction clutch for a vehicle. 4,702,362, 10-27-87, Cl. 192-98.000.

Banks, Ridgway. Laterally oscillating nitinol engine. 4,691,517, 9-8-87, Cl. 60-527.000.

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Banks, Robert L.: *See—*

Kukes, Simon G.; Nowack, Gerhard P.; and Banks, Robert L., 4,659,688, Cl. 502-208.000.

Banks, William L.: *See—*

Lochhead, Robert Y.; George, Thomas R., Jr.; and Banks, William L., 4,668,731, Cl. 524-474.000.

Bankuty, Geza E.; and Byron, LeRoy F., to New England Machinery, Inc. Container capper and torque tester. 4,696,144, 9-29-87, Cl. 53-331.500.

Bannai, Akira; and Suzuki, Shohei, to Tokyo Shibaura Denki Kabushiki Kaisha. Variable segment size plural cache system with cache memory unit selection based on relative priorities of accessed encached programs. 4,654,782, 3-31-87, Cl. 364-200.000.

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Banner, Alvin C., to Globe Tool & Engineering Company, The. Armature winding method and apparatus. 4,633,577, 1-6-87, Cl. 29-597.000.

Banner, Beatrice A.; Richardson, Lucy V.; and Darley, Kenneth S., to Griffith Laboratories Limited, The. Food coating compositions. 4,675,197, 6-23-87, Cl. 426-292.000.

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- Banning, Robert D.: *See—*
  - Fortier, Earl J.; and Banning, Robert D., 4,661,110, Cl. 604-256.000.
  - George, Robert D.; and Banning, Robert D., 4,693,709, Cl. 604-212.000.
- Bannister, Brian C., to Marler Haley Exposystems Limited. Structure incorporating stabilizing means. 4,653,563, 3-31-87, Cl. 160-135.000.
- Bannister, Brian C. Method of making cloth covered panels having edging strips. 4,684,425, 8-4-87, Cl. 156-216.000.
- Bannister, Cecil H.; Ramsden, Paul N.; and Latessa, Loretino M., to Northern Telecom Limited. Miniature electro-mechanical transducer for measuring loads and displacement. 4,651,122, 3-17-87, Cl. 338-126.000.
- Bannister, Charles E., to Dowell Schlumberger Incorporated. Aqueous treatment fluid and method of use. 4,646,834, 3-3-87, Cl. 166-291.000.
- Bannister, Charles E., to Dowell Schlumberger Incorporated. Aqueous chemical wash compositions. 4,681,165, 7-21-87, Cl. 166-312.000.
- Bannister, Richard: *See—*
  - Dayton, Birney D.; and Bannister, Richard, 4,663,598, Cl. 330-288.000.
  - Dayton, Birney D.; and Bannister, Richard, 4,684,823, Cl. 307-247.00R.
- Bannister, Robert D., to Cincinnati Milacron Inc. Robotic marking machine. 4,661,681, 4-28-87, Cl. 219-121.0LU.
- Bannister, Roger, to Schlumberger Electronics (U.K.) Limited. Enclosure for electrical circuitry having a housing with a reversible backplate. 4,669,030, 5-26-87, Cl. 361-395.000.
- Bannister, Royston W.: *See—*
  - Hill, John; Bannister, Royston W.; and Turczanski, Henry, 4,701,735, Cl. 335-282.000.
- Banno, Haruhiko; and Dewa, Koichi, to Kabushiki Kaisha Toshiba. Floppy disk control apparatus. 4,644,418, 2-17-87, Cl. 360-39.000.
- Banno, Haruhiko; and Yatagai, Shigeo, to Kabushiki Kaisha Toshiba. Computer image display apparatus. 4,710,771, 12-1-87, Cl. 340-811.000.
- Banno, Hisao, to NGK Spark Plug Co. Ltd. Underwater piezoelectric arrangement. 4,695,988, 9-22-87, Cl. 367-154.000.
- Banno, Makoto: *See—*
  - Miyamae, Hiroshi; and Banno, Makoto, 4,637,690, Cl. 350-427.000.
- Banno, Shigeki; Oshibe, Yoshihiro; and Nakagawa, Yoshimasa, to Nippon Oil and Fats Co., Ltd. Cured unsaturated polyester resin or vinyl ester resin containing fluorine-containing groups oriented on its surface. 4,708,982, 11-24-87, Cl. 525-92.000.
- Banno, Tadashi: *See—*
  - Akihama, Shigeyuki; Saito, Makoto; Kawamoto, Akio; Banno, Tadashi; Umeki, Yoshihiko; and Nakamura, Takumi, 4,700,518, Cl. 52-309.160.
- Banno, Taiichi: *See—*
  - Galle, Kevin; Orimo, Ryoichi; Sakurada, Masahiko; Banno, Taiichi; and Manabe, Sugio, 4,634,576, Cl. 422-102.000.
- Banno, Takuo, to Hewlett-Packard Company. Method for measuring a signal's frequency components. 4,686,457, 8-11-87, Cl. 324-77.00R.
- Banno, Tutomu; and Kosaka, Minoru, to Pioneer Electronic Corporation. Disc player system with digital information demodulation operation. 4,675,749, 6-23-87, Cl. 358-342.000.
- Banno, Tutomu: *See—*
  - Kosaka, Minoru; and Banno, Tutomu, 4,698,695, Cl. 358-338.000.
  - Kosaka, Minoru; and Banno, Tutomu, 4,703,367, Cl. 358-339.000.
- Bannon, Robert P.; and Marple, Stanley, to Shell Oil Company. Multistage condensation process. 4,640,743, 2-3-87, Cl. 203-87.000.
- Banon, Louis; Lajoie-Mazenc, Michel; and Mathieu, Pierre, to Regie Nationale des Usines Renault. Permanent-magnet six-pole synchronous electrodynamic machine. 4,709,179, 11-24-87, Cl. 310-156.000.
- Banovic, Peter, to Rimrock Corporation. Apparatus for pivoting a manipulator operating head about a yaw axis. 4,657,473, 4-14-87, Cl. 414-739.000.
- Bansbach, Armin; and Albert, Dieter, to Semperlux GmbH. Non-glare device for large surface light emitting means. 4,669,034, 5-26-87, Cl. 362-309.000.
- Banson Nominees Pty. Ltd.: *See—*
  - Bancroft, Peter, 4,662,970, Cl. 156-256.000.
- Banta, Maynard A. Plant growing shelter. 4,679,350, 7-14-87, Cl. 47-29.000.
- Bantel, Thomas E.; Lahrman, David F.; and Halase, John F., III, to General Electric Company. Coating thickness measurement. 4,634,291, 1-6-87, Cl. 374-7.000.
- Bantel, Thomas E.; and Mack, David C., to General Electric Company. Cooling hole inspection. 4,644,162, 2-17-87, Cl. 250-340.000.
- Banti, Ferdinand, Jr.: *See—*
  - Kuhla, Donald E.; Campbell, Henry F.; Studt, William L.; Molino, Bruce F.; Tucker, Thomas J.; and Banti, Ferdinand, Jr., 4,666,913, Cl. 514-259.000.
- Banting, Gregory. Manually operable device for applying socks. 4,651,909, 3-24-87, Cl. 223-111.000.
- Bantjes, Adriaan: *See—*
  - Maaskant, Nico; Bantjes, Adriaan; and Kempen, Hermanus J. M., 4,647,280, Cl. 604-5.000.
- Bantle, Manfred; and Lechner, Reinhard, to Dr. Ing. h.c.F. Porsche Aktiengesellschaft. Central locking arrangement. 4,690,462, 9-1-87, Cl. 301-9.0CN.
- Banton, Martin E.; and Lonis, Robert A., to Xerox Corporation. Dynamic power control for an external cavity stabilized laser diode in a holographic scanner. 4,699,446, 10-13-87, Cl. 350-3.710.
- Banton, Martin E.: *See—*
  - Yip, Kwok-leung; Araghi, Mehdi N.; Daniele, Joseph J.; Banton, Martin E.; Kramer, Charles J.; and Ritter, Joachim A., 4,639,073, Cl. 350-6.800.
- Bantz, David F.; Gupta, Satish; and Lucas, Bruce D., to International Business Machines Corporation. Computer memory system with integrated parallel shift circuits. 4,644,503, 2-17-87, Cl. 365-230.000.
- Bantz, David F.; Malaby, Davey L.; and Sholtz, Paul N., to International Business Machines Corporation. Band buffer display system. 4,679,038, 7-7-87, Cl. 340-721.000.
- Banura, George A.; and Noland, Richard L., to United States of America, Navy. Phase noise analyzer. 4,634,962, 1-6-87, Cl. 324-57.00N.
- Banville, Marcel: *See—*
  - Poirier, Clovis; Banville, Marcel; McDonald, Mario; McDonald, Sabin; Johnston, Stephen; and Masson, Jean-Rene, 4,704,815, Cl. 43-4.000.
- Bany, Stephen W.; and Wood, Leigh E., to Minnesota Mining and Manufacturing Company. Supported photoinitiator. 4,677,137, 6-30-87, Cl. 522-31.000.
- Banyaszati Aknamelyito Vallalat: *See—*
  - Erzsebet, Almasine B.; Almasi, Istvan; Toth, Arpad; Benke, Istvan; and Bajkay, Arpad, 4,674,900, Cl. 374-131.000.
- Banyay, H. Daniel, to Robinson Industries, Inc. Surgeless combustion air blower. 4,708,593, 11-24-87, Cl. 416-183.000.
- Banys, Algis R., to Filper Corporation. Mesh bag opener and bag filling system. 4,700,755, 10-20-87, Cl. 141-114.000.
- Banyu Pharmaceutical Co., Ltd.: *See—*
  - Nakagawa, Susumu; Ushijima, Ryosuke; Nakano, Fumio; Yamada, Koji; and Mano, Eiichi, 4,677,100, Cl. 514-202.000.
  - Umezawa, Hamao; Takeuchi, Tomio; Nagatsu, Toshiharu; Hamada, Masa; Iwadare, Shuichi; Matsumoto, Ikuo; and Morishima, Hajime, 4,699,879, Cl. 435-116.000.
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- Banzai, Hideo: *See—*
  - Fujita, Shigeru; Banzai, Hideo; and Tanaka, Hideo, 4,680,151, Cl. 264-40.300.
  - Fujita, Shigeru; Banzai, Hideo; and Takada, Makoto, 4,695,965, Cl. 364-518.000.
- Banzi, Frederick J., Jr.; Dugan, Michael J.; and Sharper, Craig A., to American Telephone and Telegraph Company. Loop around data channel unit. 4,675,862, 6-23-87, Cl. 370-15.000.
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- Bao, Zheng-Yi, to North China Petroleum Machinery Repairing Plant. Long stroke pumping unit. 4,665,761, 5-19-87, Cl. 74-41.000.
- Bappert, Adolf; and Bader, Hans P., to Faster GmbH & Co KG. Method of fixing an insulating material plate to be plastered to a structural surface. 4,675,972, 6-30-87, Cl. 29-526.00R.
- Baptiste, Rene: *See—*
  - Bacou, Claude; Baptiste, Rene; Feissel, Henri; Takats, Gilbert; and Cabrol, Christian, 4,714,828, Cl. 250-214.00C.
- Bar-Cohen, Yoseph, to McDonnell Douglas Corporation. Broad band acoustic transducer. 4,698,541, 10-6-87, Cl. 310-326.000.
- Bar-Cohen, Yoseph: *See—*
  - Chimenti, Dale E.; and Bar-Cohen, Yoseph, 4,674,334, Cl. 73-627.000.
- Bar-Gadda, Ronny: *See—*
  - Fiato, Rocco A.; Bar-Gadda, Ronny; and Miseo, Sabato, 4,657,885, Cl. 502-241.000.
- Bar-Hai, Giora: *See—*
  - Borg, Arthur N.; and Bar-Hai, Giora, 4,692,903, Cl. 365-226.000.
- Bar Ilan University: *See—*
  - Beitner, Rivka, 4,654,323, Cl. 514-9.000.
  - Gordon, Richard E., 4,675,065, Cl. 156-272.800.
- Bar-Kokhba, Abraham. Closing and opening device for membrane-sealed bottles. 4,634,013, 1-6-87, Cl. 215-228.000.
- Bar-Nefy, Simcha; and Tiomkin, Michael, to Israel Aircraft Industries Ltd. Mine field clearing apparatus. 4,690,030, 9-1-87, Cl. 89-1.130.
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- Bar-on, Menachem: *See—*
  - Alexander, Iosef; and Bar-on, Menachem, 4,678,649, Cl. 423-308.000.
- Bar-Shalom, Daniel, to Rafa Laboratories Ltd. Method of treating acne. 4,665,063, 5-12-87, Cl. 514-164.000.
- Bar-Tana, Jacob, to Epis S.A. Long-chain α,ω-di-carboxylic acids and derivatives thereof and pharmaceutical compositions containing them. 4,634,795, 1-6-87, Cl. 562-590.000.
- Bar-Tana, Jacob, to Epis S.A. Long-chain α,ω-dicarboxylic acids and derivatives thereof and pharmaceutical compositions containing them. 4,689,344, 8-25-87, Cl. 514-527.000.
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- Baraban, Viktor P.; Zabrovsky, Stanislav G.; Zvyagin, Albert F.; Lazarev, Grigory B.; and Tars, Yaak A., to P/O Tallinsky Elektrotekhnichesky Zavod. Device for failure detection in series-connected semiconductor rectifiers. 4,685,045, 8-4-87, Cl. 363-68.000.

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Barabas, Eva: *See—*
Bajusz, Sandor; Szell nee Hasenohrl, Erzsbet; Bagdy, Daniel; Barabas, Eva; Dioszegi, Mariann; Fittler, Zsuzsa; Jozsa, Ferencz; Horvath, Gyula; and Tomori nee Jozst, Eva, 4,703,036, Cl. 514-18.000.

Barabas, John; and Bocella, Ralph, to Castro Convertible Corporation. Convertible table. 4,662,286, 5-5-87, Cl. 108-17.000.

Barabe, David J. Waist band adjustment for garment. 4,677,699, 7-7-87, Cl. 2-221.000.

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Barabino, William A.: *See—*
Cross, Robert J.; and Barabino, William A., 4,696,106, Cl. 30-41.000.

Barach, Jeffrey T.; and Talbott, Larry L., to Miles Laboratories, Inc. Composition for accelerating cheese aging. 4,707,364, 11-17-87, Cl. 426-36.000.

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Barajas, Felix; and Bridges, Donald W., to McDonnell Douglas Corporation. Alloy-enriched solder cream. 4,661,173, 4-28-87, Cl. 148-24.000.

Barajas, Felix; and Bridges, Donald W., to McDonnell Douglas Corporation. Rosin-free solder composition. 4,673,532, 6-16-87, Cl. 252-512.000.

Barajas, Felix, to McDonnell Douglas Corporation. Solder composition. 4,680,141, 7-14-87, Cl. 252-512.000.

Baralaba Pty. Limited: *See—*
Lampard, Robert D., 4,641,616, Cl. 123-256.000.

Baraldi, Massimo, to Firestone Tire & Rubber Company, The. Cure press for retreading tires. 4,653,992, 3-31-87, Cl. 425-23.000.

Baramac Corporation Limited: *See—*
Stokes, Bruce F., 4,702,047, Cl. 52-156.000.

Baran, Abram. Collapsible hat construction. 4,682,373, 7-28-87, Cl. 2-175.000.

Baran, Anthony S.: *See—*
Marchegiano, Joseph E.; and Baran, Anthony S., 4,641,256, Cl. 364-525.000.

Baran, John S.; and Hanson, Gunnar J., to G. D. Searle & Co. N-(acyl-dipeptidyl)-aminoglycols. 4,657,931, 4-14-87, Cl. 514-616.000.

Baran, John S.; and Lowrie, Harman S., to G. D. Searle & Co. 3-alkyl-5-(substituted amino)methyl)dihydro-3-phenyl-2(3H)-furanones and imino analogs thereof used for treatment of arrhythmia. 4,707,499, 11-17-87, Cl. 514-471.000.

Baran, John S.: *See—*
Lowrie, Harman S.; and Baran, John S., 4,645,858, Cl. 562-582.000.

Baran, Michael S.: *See—*
Beihoff, Bruce C.; Judes, Avie; and Baran, Michael S., 4,683,515, Cl. 361-106.000.

Baran, Patrick S.; Levin, Sandra A.; and Kuna, Wayne A., to Marvin Glass & Associates. Skill action game. 4,673,181, 6-16-87, Cl. 273-1.0GC.

Baran, Walter J., Jr.; Chaplin, Gary F.; and Laurello, Vincent P., to United Technologies Corporation. Stator vane support assembly. 4,648,792, 3-10-87, Cl. 415-139.000.

Baranczuk, Richard J.: *See—*
Spicer, Jay; Duncan, William P.; Rotert, Gary A.; and Baranczuk, Richard J., 4,659,517, Cl. 260-397.500.

Baranescu, George S. Injection system with stratified fuel charge. 4,705,010, 11-10-87, Cl. 123-575.000.

Baranet, Sandra E.; Hodge, Richard M.; and Kucera, Clare H., to Dowell Schlumberger Incorporated. Stabilized fracture fluid and crosslinker therefor. 4,686,052, 8-11-87, Cl. 252-8.551.

Barankin, Froim; Kendiroglu, Migirdic; and Micheletti, Beyrouth B., to General Signal Corporation. Bobbin construction with strain relief. 4,700,167, 10-13-87, Cl. 336-192.000.

Baranov, Alexandr I.: *See—*
Paton, Boris E.; Vasiliev, Vsevolod V.; Bogdanovsky, Valentin A.; Baranov, Alexandr I.; Danilyak, Sergei N.; Schegolev, Viktor A.; Chernoivanov, Vladimir A.; Voloshin, Vitaly I.; Gavva, Viktor M.; and Bernadsky, Vsevolod N., 4,680,014, Cl. 434-234.000.

Baranski, Antoni S., to Ampex Corporation. Door operating mechanism for a cassette usable in a magnetic tape recorder. 4,685,01 8-4-87, Cl. 360-132.000.

Baranski, Bernard R., to Household Manufacturing, Inc. Rotating fa apparatus. 4,636,142, 1-13-87, Cl. 416-210.00R.

Baranski, Edward J. Twin arbor resaw with a fence having a continuous rotatable belt. 4,681,005, 7-21-87, Cl. 83-404.400.

Baranyi, Piroska: *See—*
Tompa, Ildiko F.; Nagy, Attila; Tyihak, Erno; Nyiredy, Szabolc Petri, Gizella V.; Meszaros, Sandor; Szepesy, Laszlo; Vida Laszlo; Mincsovics, Emil; Kemeny, Gabor; and Baranyi, Piroska, 4,671,870, Cl. 210-149.000.

Baranyi, Sandor J., to Eaton Corporation. Printing apparatu 4,685,815, 8-11-87, Cl. 400-120.000.

Baratoff, Alexis: *See—*
Harder, Christoph S.; Wolf, Hans P.; Baechtold, Werner; Gueret Pierre L.; and Baratoff, Alexis, 4,675,711, Cl. 357-22.000.

Baratta, Anthony J.; Jester, William A.; Kenney, Edward S.; McMaster, Ira B.; and Schultz, Mortimer A., to Research Corporation. Non-invasive liquid level and density gauge for nuclear power reactor pressure vessels. 4,639,349, 1-27-87, Cl. 376-254.000.

Baratta, Anthony J.: *See—*
Jester, William A.; McMaster, Ira B.; and Baratta, Anthony J., 4,663,113, Cl. 376-256.000.

Baratte, Herve; Lesterlin, Dominique; and Carenco, Alain, to L'Eta Francais represente par le Ministre des PTT (Centre National d'Etudes des Telecommunications). Electro-optical directional couple with three electrodes and alternating dephasing. 4,652,078, 3-24-8 Cl. 350-96.140.

Baratti, James J.; McCollough, Mike; and Gouzoules, Glenn P., t Hughes Aircraft Company. Test/master/slave triple latch flip-flop 4,697,279, 9-29-87, Cl. 377-73.000.

Baratto, Eugene L.; David, Donald J.; Truskolaski, Bernard S.; and W Maan-Shi S., to Minnesota Mining and Manufacturing Company Printing ink. 4,704,163, 11-3-87, Cl. 106-20.000.

Baratto, Mirko: *See—*
Sartor, Mariano; Baggio, Giorgio; and Baratto, Mirko, 4,667,42 Cl. 36-120.000.

Baraw Corporation: *See—*
Timpson, Alma A., Jr.; and Rachal, Richard N., 4,687,212, C 277-205.000.

Barazeche, Bahman; Alexis, Roger P. J.; and Guidoux, Loic B. Y., t Telecommunications Radioelectriques et Telephoniques TRT Method and apparatus for initializing filter coefficients in an echo canceller. 4,645,884, 2-24-87, Cl. 379-406.000.

Barazone, Mounque. Braking mechanism for a rotatable core suppor for a fabric roll. 4,657,199, 4-14-87, Cl. 242-75.400.

Barazone, Mounque. Device for supporting a roll of material to vehicle. 4,664,332, 5-12-87, Cl. 242-86.520.

Barazone, Mounque. Apparatus for laying paving fabric. 4,699,33 10-13-87, Cl. 242-86.520.

Barazone, Mounque. Compact apparatus for laying paving fabric 4,705,229, 11-10-87, Cl. 242-86.520.

Barb, Gayle E., to Anchor/Darling Valve Company. Control valve for high pressure fluids. 4,700,746, 10-20-87, Cl. 137-625.280.

Barba, Valentin G.; and Shube, Eugene E., to Plessey Incorporated Authority limiter. 4,683,407, 7-28-87, Cl. 318-689.000.

Barbacsy, Ludwig: *See—*
Mehnert, Walter; and Barbacsy, Ludwig, 4,672,526, Cl. 363-69.000

Barbaglia, Joseph C.: *See—*
Wilson, Richard A.; and Barbaglia, Joseph C., 4,709,924, Cl. 27 26.00R.

Barbanton, Jacques: *See—*
Ferrand, Gerard; Barbanton, Jacques; and Depin, Jean-Claude 4,649,153, Cl. 514-443.000.

Barbare, Walter L.; Willey, Harley M.; and Higgins, Ronald D., to Electrotel, Inc. Electronic step-by-step telephone switching system 4,706,280, 11-10-87, Cl. 379-284.000.

Barbarin, Remy: *See—*
Kerviel, Alain; and Barbarin, Remy, 4,642,496, Cl. 310-68.00B.

Barbaro-Forleo, Marco: *See—*
Marciano-Agostinelli, Fabrizio; and Barbaro-Forleo, Marco 4,703,132, Cl. 174-23.00C.

Barbaro, Maria: *See—*
Bertini, Vincenzo; Marabini, Anna; De Munno, Angela; Barbaro Maria; and Pocci, Marco, 4,698,171, Cl. 252-60.000.

Barbe, Christian; and Barbe, Richard. Wallpaper applicator devices and method for its use. 4,711,682, 12-8-87, Cl. 156-71.000.

Barbe, Richard: *See—*
Barbe, Christian; and Barbe, Richard, 4,711,682, Cl. 156-71.000.

Barbeau, Dennis E., to Teledyne Industries, Inc. Integrated fuel management system. 4,697,238, 9-29-87, Cl. 364-431.020.

Barbee Co., Inc., The: *See—*
Barbee, Tom D.; and Ufheil, James, 4,714,558, Cl. 210-776.000.

Barbee, Robert B.: *See—*
Davis, Burns; and Barbee, Robert B., 4,640,973, Cl. 528-208.000.
Wicker, Thomas H., Jr.; and Barbee, Robert B., 4,663,426, Cl 528-190.000.

Barbee, Steven G.; Devine, Gregory P.; Patrick, William J.; and Seeley Gerard, to International Business Machines Corporation. Vacuum deposition system with improved mass flow control. 4,640,221 2-3-87, Cl. 118-689.000.

Barbee, Tom D.; and Ufheil, James, to Barbee Co., Inc., The. Wastewater treatment system. 4,714,558, 12-22-87, Cl. 210-776.000.

Barbee, Troy W., Jr.: *See—*
  Gardner, Donald S.; Saraswat, Krishna C.; and Barbee, Troy W., Jr., 4,673,623, Cl. 428-620.000.
Barbee, William E. Fuel atomizing apparatus for internal combustion engines. 4,671,247, 6-9-87, Cl. 123-592.000.
Barben, Theodore R., II, to TBI. Pure water conductivity sensor. 4,682,113, 7-21-87, Cl. 324-441.000.
Barber, Anthony D.: *See—*
  Hough, David; Morris, Sidney J.; and Barber, Anthony D., 4,636,156, Cl. 418-201.000.
Barber-Colman Company: *See—*
  Glynn, Thomas A.; and Jones, Laurence E., 4,647,006, Cl. 251-86.000.
  Haug, Edward W., 4,673,317, Cl. 407-28.000.
Barber, Conrad F.: *See—*
  Payne, Andrew L.; and Barber, Conrad F., 4,703,728, Cl. 123-198.00A.
Barber, Dennis R.; Delfs, Larry M.; and Burk, Ronnie F., to Deere & Company. Motor seal protector valve. 4,713,936, 12-22-87, Cl. 60-403.000.
Barber, Elaine C., to Minnesota Mining and Manufacturing Company. Shaped plastic articles having replicated microstructure surfaces. 4,668,558, 5-26-87, Cl. 428-156.000.
Barber, Forest C. Instrument for visual observation utilizing fiber optics. 4,702,571, 10-27-87, Cl. 350-516.000.
Barber, Gerald L.; and Comstock, Wayne P. Mobile living quarters. 4,652,041, 3-24-87, Cl. 296-171.000.
Barber-Greene Co.: *See—*
  Smith, Donald; and Goehst, George, 4,688,965, Cl. 404-75.000.
Barber-Greene Company-Telsmith Division: *See—*
  Bremer, James C., 4,666,092, Cl. 241-214.000.
Barber, James C., to James C. Barber and Associates, Inc. Production of phosphorus and phosphoric acid. 4,649,035, 3-10-87, Cl. 423-317.000.
Barber, James C., to James C. Barber and Associates, Inc. Production of phosphorus and phosphoric acid. 4,656,020, 4-7-87, Cl. 423-322.000.
Barber, James C., to James C. Barber and Associates, Inc. Energy conservation during the smelting of ores. 4,670,240, 6-2-87, Cl. 423-322.000.
Barber, James E.: *See—*
  Hicks, Robert R., 4,660,757, Cl. 232-1.00C.
Barber, John C. Permanently-installed test fitting. 4,706,482, 11-17-87, Cl. 73-49.800.
Barber, Larry J., to Olin Corporation. Process for manufacturing bumped tape for tape automated bonding and the product produced thereby. 4,701,363, 10-20-87, Cl. 428-137.000.
Barber, Michael D.; and Kipp, William G. Coolant line hydrometer. 4,649,747, 3-17-87, Cl. 73-440.000.
Barber, Michael T. Adjustable rubber band. 4,689,858, 9-1-87, Cl. 24-17.00B.
Barber, Patrick G.; and Simpson, Norman R., to United States of America, National Aeronautics and Space Administration. Procedure to prepare transparent silica gels. 4,696,808, 9-29-87, Cl. 423-338.000.
Barber, Ronnie J.: *See—*
  Roesel, John F., Jr.; and Barber, Ronnie J., 4,663,536, Cl. 290-7.000.
Barber, Roy P.: *See—*
  Postle, Stephen R.; and Barber, Roy P., 4,643,588, Cl. 374-160.000.
Barber, Stephen C. Safety power tool. 4,691,553, 9-8-87, Cl. 72-444.000.
Barber, Thomas D.; Chandler, Richard N.; and Hunka, John F., to Schlumberger Technology Corporation. Induction logging sonde with metallic support. 4,651,101, 3-17-87, Cl. 324-339.000.
Barber, William D.: *See—*
  O'Donnell, Matthew; Karr, Steven G.; Barber, William D.; Wang, Jish M.; and Edelstein, William A., 4,680,551, Cl. 324-320.000.
Barberine, Frank G.; and Flora, David D. Slat bending tool. 4,643,016, 2-17-87, Cl. 72-387.000.
Barberis, Dario, to WABCO Westinghouse Compagnia Freni S.p.A. Vehicle brake application apparatus. 4,649,805, 3-17-87, Cl. 92-129.000.
Barberis, Dario, to WABCO Westinghouse Compagnia Freni S.p.A. Brake slack adjusting apparatus. 4,676,346, 6-30-87, Cl. 188-202.000.
Barbetti, Jamie L.: *See—*
  Snyder, Edward J.; and Barbetti, Jamie L., 4,689,448, Cl. 178-19.000.
Barbey, Jacques; and Jacquier, Marie-Oldile, to Rhone-Poulenc Films. Biaxially drawn, filled polyester film substrates. 4,654,249, 3-31-87, Cl. 428-148.000.
Barbiaux, William J.; and Wineinger, Eugene L., to Motorola, Inc. Meter drive inhibit circuit. 4,680,541, 7-14-87, Cl. 324-128.000.
Barbier, Gerard Y. G.; Leboure, Gerald J. P. B.; Desaulty, Michel A. A.; Martinez, Rodolphe; and Perigne, Jerome, to Societe Nationale D'Etude et de Construction de Moteurs D'Aviation "S.N.E.C.M.A.". Fuel and air injection system for a turbojet engine. 4,696,157, 9-29-87, Cl. 60-39.230.
Barbier, Guy; and Amory, Jean-Paul, to Alcatel. Miniature inductor with molded cover. 4,706,058, 11-10-87, Cl. 336-96.000.
Barbier, Jean-Paul: *See—*
  Pean, Jean-Louis; Desvard, Catherine; and Barbier, Jean-Paul, 4,715,985, Cl. 252-305.000.
Barbier, Marie-Jeanne: *See—*
  Gimenez, Isabelle; Barbier, Marie-Jeanne; Maximovitch, Suzanne; and Christidis, Yani, 4,692,226, Cl. 204-73.00R.
Barbier, Xavier N.; and de Passoz, Guy A., to Societe Anonyme de Telecommunications. Supply for a subscriber control system. 4,653,091, 3-24-87, Cl. 379-324.000.
Barbieri, Gianfranco; and Garola, Ugo, to RAI - Radiotelevisione Italiana. Method of simultaneously transmitting a plurality of television signals on a single radio link and apparatus adapted to carry out said method. 4,689,661, 8-25-87, Cl. 358-12.000.
Barbieri, Louis C. Method and apparatus for drilling a hole in an ice formations and pumping water out from such hole. 4,650,011, 3-17-87, Cl. 175-18.000.
Barbillat, Claude, to Electricite de France (Service National). Floating roof tanks for liquid, in particular to storage tanks used in the nuclear power industry. 4,705,185, 11-10-87, Cl. 220-222.000.
Barboni, Renato: *See—*
  Arduini, Carlo; Barboni, Renato; Castellani, Antonio; Ponzi, Ugo; Bielli, Paolo; and Contu, Salvatore, 4,701,765, Cl. 343-897.000.
Barbosa, Antonio B.; and de Campos, Joaquim C. Radiator bracket. 4,637,517, 1-20-87, Cl. 211-86.000.
Barbosa, Luiz C. F.; Ribeiro, Adelman M.; Bonet, Euclides J.; and Branco, Celso C. M., to Petroleo Brasileiro S.A. - Petrobras. Process for the correction of oil well productivity and/or injectivity profiles. 4,643,254, 2-17-87, Cl. 166-292.000.
Barbour, Edward J. Tail gate step. 4,639,032, 1-27-87, Cl. 296-62.000.
Barbrick, August: *See—*
  Mobley, Dewey F.; Warren, Janice M.; Barbrick, August; and Eisenmann, Gregg A., 4,713,026, Cl. 439-845.000.
Barbu, Stefan; Valkestijn, Leonardus; and van de Kerkhof, Franciscus A. M., to U.S. Philips Corporation. Slave-type interface circuit operating with a series bus. 4,695,839, 9-22-87, Cl. 340-825.060.
Barbu, Stefan, to U.S. Philips Corporation. High-frequency amplifier. 4,703,284, 10-27-87, Cl. 330-259.000.
Barbulescu, Mihai S.: *See—*
  Borcea, Nicky; Ionescu, Alexandru D.; and Barbulescu, Mihai S., 4,667,998, Cl. 294-88.000.
Barbulla, Winfried P. Water bed mattress. 4,638,518, 1-27-87, Cl. 5-452.000.
Barca, Alan L. Bass drum pedal assembly. 4,664,012, 5-12-87, Cl. 84-422.00R.
Barcelo, Gerard; Senet, Jean-Pierre; and Sennyey, Gerard, to Societe Nationale des Poudres et Explosifs. α-chlorinated carbonates. 4,652,665, 3-24-87, Cl. 556-437.000.
Barcelon-Yang, Cynthia: *See—*
  Stout, David M.; Yamamoto, Diane M.; and Barcelon-Yang, Cynthia, 4,657,919, Cl. 514-335.000.
Barch, Herbert W.: *See—*
  Smoot, Michael A.; Barch, Herbert W.; and Das, Balbhadra, 4,689,255, Cl. 428-77.000.
  Smoot, Michael A.; Barch, Herbert W.; and Das, Balbhadra, 4,690,760, Cl. 210-321.500.
Barclay, David F.; and Glass, Lee F., to Barclay Precision Toys Inc. Toy car and method of utilzing same. 4,664,389, 5-12-87, Cl. 273-343.000.
Barclay Horticulture Mfg. Ltd.: *See—*
  Faul, Thomas L., 4,683,674, Cl. 47-83.000.
Barclay, John A.; and Prenger, F. Coyne, Jr., to United States of America, Energy. Magnetic refrigeration apparatus with heat pipes. 4,642,994, 2-17-87, Cl. 62-3.000.
Barclay, John A.; Stewart, Walter F.; Prenger, F. Coyne; Zimm, Carl B.; and Parsons, John P., to Astronautics Corporation of America. Magnetic refrigeration apparatus with conductive heat transfer. 4,702,090, 10-27-87, Cl. 62-3.000.
Barclay, John A.; Stewart, Walter F.; Henke, Michael D.; and Kalash, Kenneth E., to United States of America, Energy. Magnetic refrigeration apparatus with belt of ferro or paramagnetic material. 4,704,871, 11-10-87, Cl. 62-3.000.
Barclay Precision Toys Inc.: *See—*
  Barclay, David F.; and Glass, Lee F., 4,664,389, Cl. 273-343.000.
Barclay, Randel L. Shearing method and machine for segmenting scrap tires. 4,682,522, 7-28-87, Cl. 83-19.000.
Barclay, William; and Stanis, Alexander C., to Barclay, William. Paper cutting attachment. 4,693,150, 9-15-87, Cl. 82-93.000.
Barcus-Berry Electronics, Inc.: *See—*
  Crooks, Robert C., 4,638,258, Cl. 330-149.000.
Barcza, Nicholas A.; and Schoukens, Albert F. S., to Council for Mineral Technology. Thermal production of magnesium. 4,699,653, 10-13-87, Cl. 75-10.190.
Barczak, Virgil J., to Kerr-McGee Coal Corporation. Reducing sulfur content in flue gases produced by coal combustion. 4,645,654, 2-24-87, Cl. 423-244.000.
Barczak, Virgil J.; Baldwin, Roger A.; and Graham, Paul R., to Kerr-McGee Coal Corporation. Process for treating coal to reduce sulfur content in flue gases produced by coal combustion. 4,702,399, 10-27-87, Cl. 423-244.000.
Bard, Arnold D. Joystick control unit. 4,686,361, 8-11-87, Cl. 250-221.000.
Bard, John K., to Hercules Incorporated. Multiphase epoxy thermosets having rubber within disperse phase. 4,680,076, 7-14-87, Cl. 156-306.900.
Bard, Martin, to Buchtal Gesellschaft mit beschrankter Haftung. Waterproof floor formation. 4,633,633, 1-6-87, Cl. 52-384.000.
Bard, Martin. Wall, ceiling and/or floor formation and a method for producing it. 4,677,801, 7-7-87, Cl. 52-389.000.
Bard, Max; Sibilo, Gerard; Marello, Georges; Viale, Daniel; and Louis, Michel, to Aerospatiale Societe Nationale Industrielle. Temporary edge to edge securement in space of two parts. 4,641,985, 2-10-87, Cl. 403-16.000.
Bard Technologies: *See—*
  Bartholet, Chauncey L.; and Hardy, Joseph, 4,646,296, Cl. 370-124.000.
Bard, William B.: *See—*
  Funk, Gary L.; and Bard, William B., 4,713,774, Cl. 364-500.000.

Barda, Henry J.: *See—*
Kachhy, Avinash; and Barda, Henry J., 4,689,425, Cl. 560-103.000.

Barden, Robert A. Redundancy arrangement for a local area network. 4,658,396, 4-14-87, Cl. 370-16.000.

Bardenheuer, Friedrich, to Mannesmann Aktiengesellschaft. Method for manufacturing a hydrogen-storing alloy. 4,661,317, 4-28-87, Cl. 420-434.000.

Bardfeld, Rosalia, to Anstalt fur Schliesstechnik. Lock arrangement for a door panel. 4,650,229, 3-17-87, Cl. 292-167.000.

Bardhan, Pronob, to Corning Glass Works. Stabilized ferroelectrics. 4,712,156, 12-8-87, Cl. 361-321.000.

Bardi, Gianluca: *See—*
Lombardini, Lapo; and Bardi, Gianluca, 4,691,534, Cl. 62-55.500.

Barditch, Irving F. Charged aerosol. 4,704,942, 11-10-87, Cl. 89-1.110.

Bardl, Artur; and Lindner, Manfred, to Siemens Aktiengesellschaft. Apparatus for generating a multi-frequency signal. 4,695,804, 9-22-87, Cl. 328-14.000.

Bardo, Charles J.; Seawell, Jesse Q.; Dylewski, Anthony J.; and Clark, John L., Jr., to Ceramic Cooling Tower Company. Lightweight cooling tower. 4,637,903, 1-20-87, Cl. 261-24.000.

Bardoliwalla, Dinshaw F.; and Villa, Jose L., to Diamond Shamrock Chemicals Company. Aqueous drilling fluids containing fluid loss additives. 4,647,384, 3-3-87, Cl. 252-8.510.

Bardoliwalla, Dinshaw F., to Diamond Shamrock Chemicals Company. Drilling fluids containing AMPS, acrylic acid, itaconic acid polymer. 4,699,225, 10-13-87, Cl. 175-72.000.

Bardon, Aubrey C. Fruit and vegetable peeler. 4,656,936, 4-14-87, Cl. 99-593.000.

Bardroff, Hans: *See—*
Laukenmann, Erich; and Bardroff, Hans, 4,655,442, Cl. 269-73.000.

Bardsley, Frank B.; and Stoddart, David E., to Gearhart Tesel Limited. Downhole resettable formation sampling tool. 4,676,096, 6-30-87, Cl. 73-155.000.

Bardsley, Frank B. and Sycha, Alec B., to Gearhart Tesel Limited. Connector apparatus. 4,712,846, 12-15-87, Cl. 439-33.000.

Bardsley, Frank B.: *See—*
Boxell, Timothy G.; Bardsley, Frank B.; and Stoddart, David E., 4,715,440, Cl. 166-100.000.

Bardsley, H. Brian, to Spencer Wright Industries, Inc. Tufting machine sliding needle bar support. 4,662,291, 5-5-87, Cl. 112-80.410.

Bardsley, Ian R.: *See—*
Lipski, Jerzy A.; and Bardsley, Ian R., 4,678,907, Cl. 250-231.0SE.

Bardue, Casey M.: *See—*
Jones, Paul W.; and Bardue, Casey M., 4,681,112, Cl. 128-419.00D.

Bardwell, Francis G., to Stewart-Warner Corporation. Pattern tracer with electronic kerf, calibration and line width compensation. 4,647,760, 3-3-87, Cl. 250-202.000.

Bardwick, Alan S.: *See—*
Wolf, James L.; Bardwick, Alan S.; and Sallis, Daniel V., 4,662,537, Cl. 221-89.000.

Bardwick, John, III: *See—*
Rogers, O. David; Bardwick, John, III; and Staten, Kenneth, 4,638,604, Cl. 52-6.000.

Bare, Jeffery E.: *See—*
Vooge, Daryl L.; and Bare, Jeffery E., 4,705,312, Cl. 294-62.000.

Bare, Rex O.: *See—*
Robinson, Earl F.; and Bare, Rex O., 4,702,256, Cl. 128-639.000.

Bare, Thomas M.; and Heald, Anthony F., to ICI Americas Inc. Pyrazolopyridine compounds, and intermediates, useful as anxiolytic agents. 4,645,838, 2-24-87, Cl. 546-84.000.

Bareket, Noah, to Lockheed Missiles & Space Company, Inc. Self-referencing scan-shear interferometer. 4,687,332, 8-18-87, Cl. 356-353.000.

Bareket, Noah, to Lockheed Missiles & Space Company, Inc. Linear-scanned-array wavefront sensor. 4,712,913, 12-15-87, Cl. 356-121.000.

Barella, Joseph: *See—*
Klein, Gerhart; Gurrie, Francis; and Barella, Joseph, 4,663,248, Cl. 429-169.000.

Barendsz, Anton W.; van Beest, Cornelis A.; and Leur, Robert, to Statt der Nederlanden (Stattsbedrijf der Rosterijen, Telegrafie en Telefonie). Gas sensor and detection system comprising such a sensor. 4,644,333, 2-17-87, Cl. 340-634.000.

Bares Group, The: *See—*
Anderson, J. Edward C.; and Osborn, Merritt A., 4,640,117, Cl. 72-410.000.

Bares, Jan, to Xerox Corporation. Device for cleaning a charging member. 4,707,115, 11-17-87, Cl. 355-15.000.

Baresh, Joseph M., to Boeing Company, The. Gauging apparatus and method. 4,703,648, 11-3-87, Cl. 73-104.000.

Barfknecht, Charles F.; and Schoenwald, Ronald D., to University of Iowa Research Foundation. Non-classical topical treatment for glaucoma. 4,636,515, 1-13-87, Cl. 514-363.000.

Barfknecht, Charles F.: *See—*
Coffman, Jeffrey A.; and Barfknecht, Charles F., 4,656,026, Cl. 424-9.000.

Barfod, Jesper M., to General Electric Company. Nuclear imaging tomography. 4,652,758, 3-24-87, Cl. 250-363.00S.

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Barkan, Edward D.: *See—*
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Barker, David C.; Wrobleski, David L.; Nix, Richard A.; and Leigh-Monstevens, Keith V., to Automotive Products plc. Shipping and installation restraining strap for slave cylinder. 4,665,802, 5-19-87, Cl. 92-23.000.

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Barker, Martyn C.; and Rowlands, Edward G., to Johnson Matthey Public Limited Company. Compositions comprising inorganic particles. 4,701,218, 10-20-87, Cl. 106-114.000.

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Barker, Peter L.: *See—*

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Barker, Randall R. Diving helmet. 4,638,410, 1-20-87, Cl. 362-105.000.

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Barker, Robert L., to Magnavox Government and Industrial Electronics Company. Sonobuoy retaining and release apparatus. 4,654,832, 3-31-87, Cl. 367-4.000.

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Barkett, Patricia A.; and Clapp, Michael G. Calculator-computer for calculating infusion rates over varying time intervals. 4,709,331, 11-24-87, Cl. 364-413.000.

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Barkhurst, David J., to Exxon Nuclear Company, Inc. Fuel assembly insertion system. 4,676,945, 6-30-87, Cl. 376-261.000.

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Barkley, George J., 4,696,230, Cl. 101-181.000.

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Barkus, Lee A.: *See—*

Burgess, Christopher N.; Corman, Ned E.; Barkus, Lee A.; Kandybowski, Steven J.; and Sucheski, Matthew M., 4,653,826, Cl. 339-64.00M.

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Pilz, Georg; Buerger, Gert; Barl, Manfred; and Thiel, Gerhard, 4,713,437, Cl. 528-336.000.

Barlebo, Lars M.; and Nickelsen, Joachim, to F. L. Smidth & Co. A/S. Heat exchanger. 4,642,905, 2-17-87, Cl. 34-10.000.

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Barlier, Pernette R. M.; and Mazeau, Jean-Pierre, to Corning Glass Works. Opal glass exhibiting a creamy-white tint. 4,687,751, 8-18-87, Cl. 501-32.000.

Barlow, Arthur J.: *See—*

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Barlow, Gordon A., to Gordon Barlow Design. Timing mechanism. 4,701,056, 10-20-87, Cl. 368-89.000.

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Barlow, John; and Rogers, David B., to GKN Technology Limited. Method of squeeze forming metal articles. 4,667,727, 5-26-87, Cl. 164-97.000.

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Barlow, William J. Bowstring release mechanism. 4,665,886, 5-19-87, Cl. 124-35.00A.
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Barmag AG: *See—*
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Burkhardt, Klaus; Gerhards, Klaus; Greb, Manfred; Keuth, Rainer; and Lenk, Erich, 4,691,947, Cl. 28-255.000.
Gathmann, Egon, 4,711,647, Cl. 55-52.000.
Gerhartz, Siegmar, 4,667,889, Cl. 242-18.100.
Hertell, Siegfried, 4,674,964, Cl. 418-60.000.
Lenk, Erich, 4,681,522, Cl. 425-72.00S.
Lenk, Erich; and Feth, Max, 4,696,633, Cl. 425-192.00S.
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Schippers, Heinz; Schiminski, Herbert; Turk, Herbert; Mayer, Klaus; and Busch, Hans-Jochen, 4,646,983, Cl. 242-43.00A.
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Barnard, Marshall B. Freeze proof control center for submersible pumps. 4,664,185, 5-12-87, Cl. 166-66.000.
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Barnard, Ralph G., to Barnhardt Manufacturing Corporation. Absorbent dental roll. 4,705,514, 11-10-87, Cl. 604-383.000.
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Barnes, Casper W., to North American Philips Corporation. Metho and apparatus for estimating the attenuation-vs-frequency slope of propagation medium from the complex envelope of a signa 4,676,250, 6-30-87, Cl. 128-660.000.
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Lim, Drahoslav; Jacoby, Stephen; Homick, Richard; and Powers Frank, 4,687,485, Cl. 623-6.000.
Barnes, Hugh V., to TI Gas Spares Limited. Gas cookers. 4,709,68 12-1-87, Cl. 126-42.000.
Barnes, James C.: *See—*
Harrington, Richard H.; and Barnes, James C., 4,667,861, C 223-113.000.
Barnes, James E. Cervically adjustable chiropractic treatment table 4,649,905, 3-17-87, Cl. 128-74.000.
Barnes, James E.: *See—*
Hague, Duane O.; and Barnes, James E., 4,636,858, Cl. 358-147.00
Barnes, James F., Jr., to Singer Company, The. Support tray for dispos able filter bag. 4,699,641, 10-13-87, Cl. 55-480.000.
Barnes, James M.: *See—*
Haas, Peter; Barnes, James M.; and Goyert, Wilhelm, 4,639,478, C 524-97.000.
Barnes, Janette M.; and Steinke, James A., to SCM Corporation. Encap sulation matrix composition and encapsulate containing same 4,689,235, 8-25-87, Cl. 426-89.000.
Barnes, John: *See—*
Flannagan, Stephen T.; Reed, Paul A.; and Barnes, John, 4,698,78 Cl. 365-205.000.
Barnes, John A.; Sundberg, Harrell P.; and Haney, Joe C., to Gate Rubber Company, The. Conductive fiber hose. 4,675,780, 6-23-87, C 361-215.000.
Barnes, John F.: *See—*
Root, Jon C.; and Barnes, John F., 4,675,121, Cl. 252-25.000.
Barnes, John G.; and Murray, Charles R., to C-I-L, Inc. Thermoplastic bag. 4,672,684, 6-9-87, Cl. 383-45.000.
Barnes, John R.; Diamond, John E.; and Griffin, Graham J., to Conoco Inc. Clamps for attaching pipelines together in parallel relationship 4,678,147, 7-7-87, Cl. 248-74.100.
Barnes, Johnny G.; Chen, James N.; and Hayes, Gerald E., to International Business Machines Corporation. Word processing system based on a data stream having integrated alphanumeric and graphic data. 4,707,801, 11-17-87, Cl. 364-900.000.
Barnes, Keith, to Kontron Electronics, Inc. Adapter for simultaneous use of logic analyzer and in circuit emulator. 4,661,921, 4-28-87, C 364-708.000.
Barnes, Kevin P. Refuse collection vehicle. 4,699,557, 10-13-87, C 414-408.000.
Barnes, Lawrence C.; and Mankedick, Robert G., to NCR Corporation Apparatus and method for mixing video signals for simultaneous presentation. 4,680,622, 7-14-87, Cl. 358-22.000.
Barnes, Lee. Oil temperature control device. 4,671,229, 6-9-87, C 123-196.0AB.

Barnes, Peter H., to Shell Oil Company. Apparatus and process for solids-fluid separation. 4,666,674, 5-19-87, Cl. 422-144.000.

Barnes, Ramon M.; and Bertenyi, Istvan, to Morton Thiokol, Inc. Plasma spectroscopic analysis of organometallic compounds. 4,688,935, 8-25-87, Cl. 356-36.000.

Barnes, Richard J.: *See—*

Krafcik, Joseph T., Barnes, Richard J.; and Goetter, Erwin H., 4,679,896, Cl. 350-96.200.

Barnes, Robert A., to RCA Corporation. Frequency switching circuit for multiple scan rate video display apparatus. 4,645,989, 2-24-87, Cl. 315-411.000.

Barnes, Robert G., Jr.; and Meyering, Mark T. Process for producing reinforced microporous membrane. 4,645,602, 2-24-87, Cl. 210-490.000.

Barnes, Robert G., Jr.; and Meyering, Mark T., to Cuno Incorporated. Reinforced microporous membrane. 4,707,265, 11-17-87, Cl. 210-638.000.

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Barnes, Billy R.; Barnes, Ronny L.; and Gary, David A., 4,655,295, Cl. 172-26.000.

Barnes, Ronny R.: *See—*

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Barnes, Russell M.: *See—*

Young, Raymond R.; Deffner, John F.; and Barnes, Russell M., 4,685,574, Cl. 211-59.200.

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Barnett, Allen M.; and Hall, Robert B., to Astrosystems, Inc. Fault tolerant thin-film photovoltaic cell. 4,677,250, 6-30-87, Cl. 136-258.000.

Barnett, Charles J., to Eli Lilly and Company. Intermediates for picenadol. 4,663,460, 5-5-87, Cl. 546-334.000.

Barnett, Christopher J.; Dyche, Mark P.; Golding, Victor G.; and Ng, Yat H., to International Business Machines Corporation. Audio response terminal for use with data processing systems. 4,653,100, 3-24-87, Cl. 381-52.000.

Barnett, Daniel J.: *See—*

Battey, James F.; Nelson, Norvell J.; and Barnett, Daniel J., 4,695,348, Cl. 156-647.000.

Schellhamer, Alan J.; Barnett, Daniel J.; and Khan, Abdul Q., 4,715,931, Cl. 162-199.000.

Barnett, Earl D.; and Mundstock, Robert W., to Chicago Show Printing Co. Collapsible container. 4,678,095, 7-7-87, Cl. 220-4.00F.

Barnett, Earl D., to Chicago Show Printing Co. Support bracket for signs and advertising displays. 4,709,891, 12-1-87, Cl. 248-214.000.

Barnett, Gary A., to M. Lowenstein Corporation. Synthetic leather sheet material products. 4,640,858, 2-3-87, Cl. 428-90.000.

Barnett, Howard S.: *See—*

Cochran, Michael J.; and Barnett, Howard S., 4,654,786, Cl. 364-200.000.

Barnett, John L. Automobile side protector. 4,707,009, 11-17-87, Cl. 293-128.000.

Barnett, Joseph A.; Gomez, Joseph M.; Green, William F.; Lisica, Vincent M.; and Rosenthal, Arnold B., to International Business Machines Corporation. Plural robotic drive. 4,714,400, 12-22-87, Cl. 414-751.000.

Barnett, Larry R.; and Baird, J. Mark, to United States of America, Navy. Waveguide coupler using three or more wave modes. 4,668,894, 5-26-87, Cl. 315-4.000.

Barnett, Peter W. Acoustic systems. 4,649,564, 3-10-87, Cl. 381-63.000.

Barnett, Ronald E.; Zanno, Paul R.; and Roy, Glenn M., to General Foods Corporation. Cycloalkyl ethers and thioethers of dipeptides. 4,638,071, 1-20-87, Cl. 549-88.000.

Barnett, Ronald E.; and Yarger, Ronald G., to General Foods Corporation. Foodstuffs containing 3-aminobenzesulfonic acid as a sweetener inhibitor. 4,642,240, 2-10-87, Cl. 426-538.000.

Barnett, Ronald E.; Zanno, Paul R.; and Roy, Glenn M., to General Foods Corporation. L-aminodicarboxylic-(O-cycloalkyl)-L-aminocarboxylate alkyl ester sweeteners. 4,654,219, 3-31-87, Cl. 426-548.000.

Barnett, Ronald E.; Riemer, Jed A.; and Zanno, Paul R., to General Foods Corporation. Foodstuffs with 3-hydroxy-4-alkyloxyphenyl aliphatic carboxylates. 4,664,929, 5-12-87, Cl. 426-548.000.

Barnett, Ronald E.; Zanno, Paul R.; and Roy, Glenn M., to General Foods Corporation. Sweetening with cycloalkyl ethers and thioethers of dipeptides. 4,676,989, 6-30-87, Cl. 426-548.000.

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Barnett, Ronald E.: *See—*

Roy, Glenn M.; Barnett, Ronald E.; and Zanno, Paul R., 4,650,688, Cl. 426-548.000.

Roy, Glenn M.; Barnett, Ronald E.; and Zanno, Paul R., 4,654,439, Cl. 562-503.000.

Roy, Glenn M.; Barnett, Ronald E.; and Zanno, Paul R., 4,666,729, Cl. 426-548.000.

Zanno, Paul R.; Barnett, Ronald E.; and Roy, Glenn M., 4,634,792, Cl. 560-169.000.

Zanno, Paul R.; Barnett, Ronald E.; and Roy, Glenn M., 4,636,396, Cl. 426-548.000.

Zanno, Paul R.; Barnett, Ronald E.; and Roy, Glenn M., 4,652,457, Cl. 426-548.000.

Zanno, Paul R.; Barnett, Ronald E.; and Roy, Glenn M., 4,652,676, Cl. 562-498.000.

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Zanno, Paul R.; Barnett, Ronald E.; and Roy, Glenn M., 4,701,552, Cl. 562-498.000.

Barnett, Stanley M.; and Bradley, Kenneth A., to Board of Governors for Higher Education State of Rhode Island and Providence Plantations, The. Multiphase reactor systems based on foams for simultaneous growth and separation of products. 4,654,305, 3-31-87, Cl. 435-246.000.

Barnett, Stockton: *See—*

Rumens, Kurt W. F.; Holley, Robert E., Jr.; Atemboski, Alan; and Barnett, Stockton, 4,665,889, Cl. 126-77.000.

Barnett, Timothy J., to Elixir Industries. Snap-in screen frame and mounting for same. 4,690,040, 9-1-87, Cl. 98-2.140.

Barnhardt Manufacturing Corporation: *See—*

Barnard, Ralph G., 4,705,514, Cl. 604-383.000.

Barnhart, Gary A.: *See—*

Carson, David E.; and Barnhart, Gary A., 4,711,338, Cl. 198-396.000.

Barnhart Industries, Inc.: *See—*

DeWoskin, Irvin S., 4,633,565, Cl. 29-417.000.

Barnhart, Robert V., to GTE Products Corporation. Scrap-less taping system for IC lead-frames. 4,646,127, 2-24-87, Cl. 357-70.000.

Barnhart, Ronald W.: *See—*

Wehmeyer, Donald T.; and Barnhart, Ronald W., 4,691,795, Cl. 180-6.480.

Barnhart, William D. Sanitary device for animals. 4,715,320, 12-29-87, Cl. 119-1.000.

Barnhouse, James P., to B. F. Goodrich Company, The. Epihalohydrin polymers. 4,645,801, 2-24-87, Cl. 525-404.000.

Barnhouse, Robert L.; Elo, James C.; Mattison, George F., Jr.; and Hart, Marshall, to Northern Telecom Limited. Localized removal of a precious metal inlay from a metal strip and a broaching tool therefor. 4,660,272, 4-28-87, Cl. 29-558.000.

Barnicol-Ottler, Max; Loczenski, Martin; Mieschke, Norbert; Ott, Gerhard; Przybylski, Gerhard; Puff, Erich; and Weber, Dietmar, to Siemens Aktiengesellschaft. Flexible multiconductor electric cable. 4,654,476, 3-31-87, Cl. 174-116.000.

Barnsdale, William J., Jr.; and Ford, Frank G., to Pueblo Technologies, Inc. Computer security device. 4,685,056, 8-4-87, Cl. 364-200.000.

Barnthaler, Franz; Bedenk, Ferdinand; Schetina, Otto; and Zitz, Alfred, to Voest-Alpine Aktiengesellschaft. Device for sealing a drift cross section driven by means of a cutting machine. 4,662,685, 5-5-87, Cl. 299-33.000.

Barnthaler, Franz; Bedenk, Ferdinand; Schetina, Otto; and Zitz, Alfred, to Voest-Alpine Aktiengesellschaft. Drift advancing or mining machine. 4,664,449, 5-12-87, Cl. 299-74.000.

Barnthaler, Franz; Krassnig, Eduard; and Zitz, Alfred, to Voest-Alpine Aktiengesellschaft. Drift advancing or exploiting machine. 4,688,855, 8-25-87, Cl. 299-75.000.

Barnthaler, Franz; Bedenk, Ferdinand; Schetina, Otto; and Zitz, Alfred, to Voest-Alpine Aktiengesellschaft. Apparatus for cutting excavations having a substantially planar face. 4,711,502, 12-8-87, Cl. 299-33.000.

Barnum, Lewis W.: *See—*

Gaskill, Garold B.; Park, Daniel J.; Rullman, Robert G.; Rose, Donald T.; Stiley, Joseph F., III; Barnum, Lewis W.; and Hoff, Don G., 4,713,808, Cl. 370-94.000.

Baro, Gunter; Kraus, Werner; and Stindt, Wilfried, to Brown Boveri Reaktor GmbH. Method and device for replacing neutron absorber rods. 4,683,107, 7-28-87, Cl. 376-260.000.

Baro, Gunter: *See—*

Scharpenberg, Rainer; and Baro, Gunter, 4,637,912, Cl. 376-245.000.

Baroffio, Romano: *See—*

Nistri, Ugo; Baroffio, Romano; Ghisu, Giuseppe; Chiellini, Enzo; Padula, Giorgio; and Fonzi, Giorgio, 4,650,409, Cl. 425-82.100.

Baron, Claude, to Societe Nationale Industrielle et Aerospatiale. Safety tool-holder for machine-tools. 4,708,547, 11-24-87, Cl. 409-233.000.

Baron, Donna M.; Espenlaub, David E.; Haines, Vicki A.; Inberg, Gerald A.; Shilling, Steve A.; Truesdale, James B.; and Willett, Robert J., to AT&T Bell Laboratories. Control for a multiprocessing system program process. 4,635,187, 1-6-87, Cl. 364-200.000.

Baron, Howard C. Atraumatic vascular balloon clamp. 4,708,140, 11-24-87, Cl. 128-325.000.

Baron, Kenneth: *See—*

Jessup, Peter; Holstedt, Richard A.; and Baron, Kenneth, 4,686,056, Cl. 252-49.700.

Baron, Neville A. Process for recurving the cornea of an eye. 4,712,543, 12-15-87, Cl. 128-303.100.

Baron, Paul C. Method and apparatus for recovering liquids from a well bore. 4,700,783, 10-20-87, Cl. 166-372.000.

Baron, Seymour: *See—*

Lu, Chin H.; and Baron, Seymour, 4,654,175, Cl. 260-501.150.

Baron, Thierry: *See—*

Belbel, Elie; Baron, Thierry; Blanchard, Christian; Haury, Andre; and Lauraire, Michel, 4,635,022, Cl. 337-158.000.

Baron, William J.; and Gredel, Marie F., to Kid Biz, Inc. Water spouting inflatable bop bag. 4,655,722, 4-7-87, Cl. 446-226.000.

Baron, Yair; and Vijan, Meera, to Ovonic Imaging Systems, Inc. Liquid crystal matrix display having improved spacers and method of making same. 4,653,864, 3-31-87, Cl. 350-344.000.

Baron, Yair: *See—*
  Chapelle, Walter; Yaniv, Zvi; and Baron, Yair, 4,669,868, Cl. 355-53.000.

Barone, David, to Organon Teknika Corporation. Ultrafiltration control for hemodialysis. 4,680,122, 7-14-87, Cl. 210-637.000.

Barone, Hector D.; and Martin, Jose R. Setting for a cardiac valve. 4,705,516, 11-10-87, Cl. 623-2.000.

Barone, Patrizia; and Ramachandran, Pallassana N., to Colgate Palmolive Company. Alpha-sulfo-higher fatty acid-lower alcohol ester- and amide-based detergent laundry bars and process for manufacture thereof. 4,705,644, 11-10-87, Cl. 252-135.000.

Barone, Patrizia: *See—*
  Ramachandran, Pallassana N.; and Barone, Patrizia, 4,707,289, Cl. 252-135.000.

Baronetti, Giovanni: *See—*
  Riolfo, Benedetto; Guglielmo, Mario; and Baronetti, Giovanni, 4,660,078, Cl. 358-133.000.

Baroni, Giuseppe; and Montorfano, Gianpaolo, to Honeywell Information Systems Italia. Multiple outputs switching power supply. 4,646,217, 2-24-87, Cl. 363-17.000.

Baronoff, Jay H.: *See—*
  Ford, Allan L.; and Baronoff, Jay H., 4,715,839, Cl. 446-28.000.

Baroody, Anthony J., Jr., to Xerox Corporation. Image rotation. 4,703,515, 10-27-87, Cl. 382-46.000.

Barouh, Victor; and Dinsky, Seth. Desk-top correction ribbon system. 4,710,047, 12-1-87, Cl. 400-697.000.

Barowski, Karlheinz; and Berghammer, Conrad, to Braun Aktiengesellschaft. Hair roller heating device with thermomagnetic roller temperature control. 4,691,095, 9-1-87, Cl. 219-222.000.

Barr, Arthur C. Two-way mailing envelope and method of making and addressing the same. 4,688,715, 8-25-87, Cl. 229-73.000.

Barr, B. G.: *See—*
  Lane, Darryl; Barr, B. G.; Dutton, Mike; Frain, Mike; Frechette, Simon; Hummel, Keith; Majerle, John; Majerle, Joseph; Rogers, Steve; Unger, Mark; and Umholtz, Robert, 4,664,366, Cl. 269-303.000.

Barr, Dallas N.: *See—*
  Fox, Clifton S.; Nettleton, John E.; and Barr, Dallas N., 4,689,798, Cl. 372-82.000.
  Sluss, Elmer C.; Nettleton, John E.; and Barr, Dallas N., 4,710,941, Cl. 372-87.000.

Barr, Harold B. Continuously variable transmission. 4,697,477, 10-6-87, Cl. 74-793.000.

Barr, J. T.: *See—*
  Perciful, David D., 4,673,219, Cl. 299-39.000.

Barr, John D.; and Fuller, John M., to NL Industries, Inc. Drill bit and cutter therefor. 4,640,375, 2-3-87, Cl. 175-410.000.

Barr, John D.; Matthias, Terry R.; and Taylor, Malcolm R., to NL Industries, Inc. Drill bit and cutter therefor. 4,669,556, 6-2-87, Cl. 175-329.000.

Barr, John D.; and Fuller, John M., to NL Industries, Inc. Drill bit and cutter therefor. 4,676,324, 6-30-87, Cl. 175-393.000.

Barr, John D.; and Wardley, Michael T., to NL Petroleum Products Limited. Rotary drill bits and cutting elements for such bits. 4,679,639, 7-14-87, Cl. 175-329.000.

Barr, John D., to NL Petroleum Products Limited. Rotary drill bits with nozzle former and method of manufacturing. 4,694,919, 9-22-87, Cl. 175-393.000.

Barr, John D.; and Taylor, Malcolm R., to NL Petroleum Products Limited. Rotary drill bits. 4,697,654, 10-6-87, Cl. 175-329.000.

Barr, John D.; and Lamb, Haydn R., to NL Industries, Inc. Drill bit and method of manufacture. 4,711,144, 12-8-87, Cl. 76-108.00A.

Barr, John D.: *See—*
  Short, Lot W., Jr.; and Barr, John D., 4,660,659, Cl. 175-329.000.

Barr, John T., IV; Neering, Michael J.; Fullmer, Douglas E.; Oblad, Roger P.; Cannon, Wayne C.; and Elmore, Glenn E., to Hewlett-Packard Company. Vector network analyzer with integral processor. 4,641,086, 2-3-87, Cl. 324-77.00R.

Barr, John T., IV, to Hewlett-Packard Company. Vector network analyzer with integral processor. 4,669,051, 5-26-87, Cl. 364-570.000.

Barr, John T., IV: *See—*
  Sharrit, David D.; Dildine, Robert G.; Roos, Mark D.; and Barr, John T., IV, 4,636,717, Cl. 324-77.00B.
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Barr, Paul, to Aetna Telecommunications Laboratories. Real time network system. 4,704,721, 11-3-87, Cl. 375-118.000.

Barr & Stroud Limited: *See—*
  Hansen, Derek, 4,672,617, Cl. 372-23.000.
  Neil, Iain A., 4,659,171, Cl. 350-1.200.
  Neil, Iain A., 4,695,119, Cl. 350-1.200.

Barr, Tery L.: *See—*
  Lambert, Susan L.; Lawson, Randy J.; Johnson, Russell W.; and Barr, Tery L., 4,652,689, Cl. 585-415.000.

Barr, William A. Valve assembly for use in brake pressure control unit. 4,640,554, 2-3-87, Cl. 303-6.00C.

Barr, William A. Valve assembly for use in brake pressure control unit. 4,668,020, 5-26-87, Cl. 303-6.00C.

Barra, Jean, to Aluminium Pechiney. Apparatus for retaining a liquid phase, between a wall and a rotary member passing therethrough. 4,664,391, 5-12-87, Cl. 277-13.000.

Barra, Jean, to Aluminium Pechiney. Variable-thickness sector for a rotary disc-type filter. 4,699,716, 10-13-87, Cl. 210-486.000.

Barra, Jean, to Aluminium Pechiney. Apparatus for continuous flow feed to disc-type rotary filters. 4,704,206, 11-3-87, Cl. 210-331.000.

Barrack Technology: *See—*
  Lampard, Robert D., 4,641,616, Cl. 123-256.000.

Barraclough, David J.: *See—*
  Buxton, Frank A.; and Barraclough, David J., 4,683,099, Cl. 264-511.000.
  Sutcliffe, David T.; and Barraclough, David J., 4,683,018, Cl. 156-196.000.

Barras, Lynn T. Apron and infant towel. 4,685,154, 8-11-87, Cl. 2-48.000.

Barrash, Marshall J., to Coca-Cola Company, The. Can end assembly. 4,705,186, 11-10-87, Cl. 220-269.000.

Barrat, Christian R.; Busch, Alfred; and Sardelis, Kosmas, to Procter & Gamble Company, The. Liquid detergent compositions containing organo-functional polysiloxanes. 4,639,321, 1-27-87, Cl. 252-8.800.

Barrat, Christian R.: *See—*
  Wevers, Jean; Barrat, Christian R.; and Hardy, Frederick E. 4,714,565, Cl. 252-174.190.

Barratt, Craig H.; Wilfley, Brian P.; and Parish, David M., to Resonex, Inc. Quantization error reduction method for phase encode gradient in NMR imaging. 4,713,615, 12-15-87, Cl. 324-307.000.

Barrault, Joel: *See—*
  Boulinguiez, Martine; Forquy, Christian, and Barrault, Joel. 4,665,242, Cl. 568-70.000.

Barraza, Arthur; and Kearney, Calvin T., to Kidde, Inc. Recirculating toilet pump assembly. 4,695,222, 9-22-87, Cl. 415-80.000.

Barre, Lucien, to Thomson-CSF. Package for a surface mountable component. 4,695,927, 9-22-87, Cl. 361-400.000.

Barre, Maurice; and Kalewicz, Zdzislaw. Pigmentary composition for the cathodic protection of metallic surfaces against corrosion, and process for preparing said composition. 4,713,112, 12-15-87, Cl. 106-14.050.

Barre-Sinoussi, Francoise: *See—*
  Montagnier, Luc; Chermann, Jean-Claude; Barre-Sinoussi, Francoise; Brun-Vezinet, Francoise; Rouzioux, Christine; Rozenbaum, Willy; Dauguet, Charles; Gruest, Jacqueline; Nugeyre, Marie-Therese; Rey, Francoise; Axler-Blin, Claudine; Chamaret, Solange; Gallo, Robert C.; Popovic, Mikulas; and Sarngadharan, Mangalasseril G., 4,708,818, Cl. 435-5.000.

Barree, Robert D., to Marathon Oil Company. Automated gas-liquid relative permeameter. 4,679,421, 7-14-87, Cl. 73-38.000.

Barrena, Juan J.: *See—*
  Rao, Chepur P.; and Barrena, Juan J., 4,652,706, Cl. 200-67.00D.

Barrera, Giorgio, to Officine Meccaniche Pavesi & C. S.p.A. Apparatus for treating stator winding leads. 4,694,560, 9-22-87, Cl. 29-564.100.

Barrere, Genevieve C.; Beydon, Marie-Helene; Drugeault, Lionel; and Vasseur, Jean-Pierre, to Rhone-Poulenc Sante. Device for carrying out withdrawals of samples from semi-solid media. 4,684,613, 8-4-87, Cl. 435-301.000.

Barresi, Anthony J.: *See—*
  Nelson, Leonard; and Barresi, Anthony J., 4,708,281, Cl. 228-180.100.

Barrett, Bracell P., to Barrett Machine Works. Core sample taking bullet construction. 4,702,327, 10-27-87, Cl. 175-4.000.

Barrett, Carl. Rake. 4,667,458, 5-26-87, Cl. 56-400.160.

Barrett, Dave D., Jr. Prefabricated building panel and method. 4,649,682, 3-17-87, Cl. 52-221.000.

Barrett, David M. Wound closure and observation device having a no-contact protective covering. 4,706,661, 11-17-87, Cl. 128-155.000.

Barrett, Douglas J., to Eikonix Corporation. Imaging large documents. 4,701,809, 10-20-87, Cl. 358-293.000.

Barrett, Garret D. Stents for bone augmentation by surgical implant. 4,684,370, 8-4-87, Cl. 623-66.000.

Barrett, Graham D., to Ezekiel Nominees Pty. Ltd. Intraocular lens implants. 4,664,666, 5-12-87, Cl. 623-6.000.

Barrett, Haentjens & Co.: *See—*
  Werner, Roy H.; and Decker, Clifford, 4,642,919, Cl. 37-58.000.

Barrett, Harold J., to Eastman Kodak Company. Inhibition of exposure in a video printer upon loss of color filter sync. 4,685,000, 8-4-87, Cl. 358-332.000.

Barrett, Joe H., II, to Blue Bell, Inc. Combination personnel and garment grounding strap. 4,676,561, 6-30-87, Cl. 439 37.000.

Barrett, John P.; Schulz, Daniel R.; Kent, David E.; deFasselle, Robert J.; and Zega, Henry E., to Barrett, John P. Dispensing system. 4,700,884, 10-20-87, Cl. 236-12.120.

Barrett, John P., Sr.; and Schulz, Daniel R., to Barrett, John P., Sr. Electronic control device for liquids. 4,635,844, 1-13-87, Cl. 236-12.120.

Barrett, John R., to Itek Corporation. Joule-Thomson cryostat having a chemically-deposited infrared detector and method of manufacture. 4,682,032, 7-21-87, Cl. 250-352.000.

Barrett, John R.; Cemenska, Richard A.; Gladden, John R.; Moeckel, Mark D.; and Schneider, Philip H., to Caterpillar Inc. Heat recovery system including a dual pressure turbine. 4,684,321, 8-4-87, Cl. 415-202.000.

Barrett, John R., to Itek Corporation. Method of fabricating a PbS-PbSe IR detector array. 4,689,246, 8-25-87, Cl. 427-76.000.

Barrett, John S.: *See—*
  Nigol, Olaf; Barrett, John S.; and Green, Martin A., 4,673,775, Cl. 174-130.000.

Barrett Machine Works: *See—*
  Barrett, Bracell P., 4,702,327, Cl. 175-4.000.
Barrett, Mark D.: *See—*
  Elmore, Carl L.; Poulin, Ted M.; and Barrett, Mark D., 4,638,855, Cl. 165-101.000.
Barrett, Michael; Tattersall, William A.; and O'Donnell, Dennis, to Hollingsworth (U.K.) Limited. Friction spinning apparatus. 4,660,366, 4-28-87, Cl. 57-263.000.
Barrett, Michael E., to Singer Company, The. Cutter head assembly for power planer. 4,700,481, 10-20-87, Cl. 30-475.000.
Barrett, Robert C., to Eastman Machine Company. Straight knife machine with safety features. 4,712,303, 12-15-87, Cl. 30-275.000.
Barrett, Ronald A., to Tektronix, Inc. Broadband RF power detector using FET. 4,647,848, 3-3-87, Cl. 324-95.000.
Barrett, Ronald A., to Tektronix, Inc. Precision remotely-switched attenuator. 4,695,806, 9-22-87, Cl. 330-254.000.
Barrett, Ronnie G. Anti-armor gun. 4,677,897, 7-7-87, Cl. 89-166.000.
Barrett, Terence W.; and Giuliani, John F., to United States of America, Navy. Optical 3-d signature device for detecting chemical agents. 4,650,329, 3-17-87, Cl. 356-345.000.
Barrett, Wilford C. Solar power take-off. 4,703,621, 11-3-87, Cl. 60-496.000.
Barrett, William A.: *See—*
  Myers, Martin G.; and Barrett, William A., 4,705,486, Cl. 445-17.000.
Barrett, William T., to Wehr Corporation. Magnetic refuse separator. 4,686,034, 8-11-87, Cl. 209-223.100.
Barri, Mohamed M., to University of Missouri, The Curators of the. Electrical machines with multiple axes of rotation. 4,661,737, 4-28-87, Cl. 310-166.000.
Barri, Sami A. I.; and McNiff, Timothy K., to British Petroleum Company p.l.c., The. Selective dealumination of zeolites. 4,654,316, 3-31-87, Cl. 502-61.000.
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Barri, Sami A. I., to British Petroleum Company p.l.c., The. Chemical process and catalyst. 4,665,267, 5-12-87, Cl. 585-660.000.
Barriac, Jacques J., to Owens-Illinois, Inc. Tamper indicating package. 4,664,278, 5-12-87, Cl. 215-252.000.
Barrick, Fred A. Combination device for applying tire chains and mounting a jack. 4,709,432, 12-1-87, Cl. 7-100.000.
Barricks, Mary S.; and Yereance, Robert A. System for locating a sport object. 4,660,039, 4-21-87, Cl. 342-27.000.
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  Barrineau, Wyman L., Sr.; and Barrineau, Julius P., 4,638,828, Cl. 137-62.000.
Barrineau, Wyman L., Sr.; and Barrineau, Julius P. Water temperature actuated drip valve. 4,638,828, 1-27-87, Cl. 137-62.000.
Barringer, Eric A.; and Eagar, Thomas W., to Massachusetts Institute of Technology. Non-hygroscopic welding flux binders. 4,662,952, 5-5-87, Cl. 148-23.000.
Barrington, Burchus Q.; Evans, Robert T.; and Hackney, Bernard L., to Halliburton Company. Hydraulically set and released bridge plug. 4,646,829, 3-3-87, Cl. 166-125.000.
Barrington, Burchus Q., to Halliburton Company. Lock for downhole apparatus. 4,669,539, 6-2-87, Cl. 166-120.000.
Barrington, Burchus Q.: *See—*
  Copland, George V.; and Barrington, Burchus Q., 4,673,890, Cl. 33-178.00F.
Barrington, Claud C.: *See—*
  Wafer, Don B.; and Barrington, Claud C., 4,711,262, Cl. 137-14.000.
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  Gilfaut, Jean-Pierre; Peze, Andre; Ravillard, Jean-Paul; and Thevenet, Jean-Claude, 4,714,052, Cl. 122-149.000.
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  Peze, Andre; and Fechner, Henry, 4,688,631, Cl. 165-166.000.
Barris, Marty A.; and Zelinka, Richard L., to Donaldson Company, Inc. Multi-layered microfiltration medium. 4,650,506, 3-17-87, Cl. 55-487.000.
Barritault, Denis: *See—*
  Guedon born Saglier, Isabelle; Barritault, Denis; Courtois, Yves; Arruti, Cristina; and Prunieras, Michel, 4,670,257, Cl. 424-95.000.
Barritt, William D., to Maytag Company, The. Appliance system. 4,703,306, 10-27-87, Cl. 340-310.0CP.
Barriuso, Jean-Pierre: *See—*
  Sarton, Francois; and Barriuso, Jean-Pierre, 4,649,658, Cl. 40-316.000.
Barroero, Louis F. Self-closing hinge and isolation door installation. 4,692,963, 9-15-87, Cl. 16-275.000.
Barron, Edward J., to Rejs Co., Inc. Refrigeration apparatus. 4,683,726, 8-4-87, Cl. 62-503.000.
Barron, Larry; and Barron, Susan C. Composition for relieving toothache pain and other forms of intense pain. 4,650,668, 3-17-87, Cl. 424-44.000.
Barron, Michael H.: *See—*
  Gutschick, Vincent P.; Barron, Michael H.; Waechter, David A.; and Wolf, Michael A., 4,678,330, Cl. 356-222.000.
Barron, Susan C.: *See—*
  Barron, Larry; and Barron, Susan C., 4,650,668, Cl. 424-44.000.
Barron, William R., to American Sterilizer Company. Ethylene oxide sterilization and aeration indicator. 4,671,936, 6-9-87, Cl. 422-55.000.
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  King, Christopher N.; Dolinar, Brian J.; Barrow, William A.; Flegal, Robert T.; Gulick, Paul E.; and Blacken, Laurin G., 4,691,144, Cl. 315-169.300.
Barrowman, Gavin R., to National Nuclear Corporation Limited. Failed fuel detection arrangements. 4,675,148, 6-23-87, Cl. 376-253.000.
Barrows, Thomas H., to Minnesota Mining and Manufacturing Company. Absorbable nerve repair device and method. 4,669,474, 6-2-87, Cl. 128-334.00C.
Barroyer, Paul; Foucher, Bernard; Ladent, Claude; and Wicke, Jean P., to Etablissements Neu. Heat exchanger having removable exchange surfaces. 4,676,303, 6-30-87, Cl. 165-78.000.
Barrs, John W.: *See—*
  Rhodes, Joseph C., Jr.; Moore, Victor S.; Kraft, Wayne R.; and Barrs, John W., 4,685,080, Cl. 364-900.000.
Barrus, Donald M.: *See—*
  Matouk, Anthony F.; Hoffman, David C.; and Barrus, Donald M., 4,691,274, Cl. 363-141.000.
Barrus, Gordon B.; and Emenaker, Leo J., to Printronix, Inc. Color printer. 4,687,359, 8-18-87, Cl. 400-218.000.
Barry, John C. Emergency air access and signal. 4,640,278, 2-3-87, Cl. 128-206.120.
Barry, John J., to Pyramid Industries, Inc. Heat pump system. 4,714,108, 12-22-87, Cl. 165-45.000.
Barry, Joseph, Jr.; Lewis, Jerry; Harris, Peter B.; and McHugh, William T., to GTE Government Systems Corporation. Apparatus for assembling electrochemical batteries and similar articles. 4,689,108, 8-25-87, Cl. 156-499.000.
Barry, Joseph A.; and Barry, Leo J. Telescopic chute for mixer discharge. 4,711,334, 12-8-87, Cl. 193-6.000.
Barry, Jurgen, to Compur-Electronic GmbH. Fiber optic reflectance measurement apparatus. 4,636,082, 1-13-87, Cl. 356-446.000.
Barry, Jurgen; and Jansky, Karl P., to Compur-Electronic GmbH. Head for measuring reflectance. 4,666,309, 5-19-87, Cl. 356-446.000.
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Barry, Michael J.; Senior, Adrian; and Beech, Alan E., to Dresser U.K. Limited. Pre-start warning system and machine incorporating such system. 4,649,288, 3-10-87, Cl. 307-84.000.
Barry, Michael W.: *See—*
  Tompkins, E. Neal; Riley, Kim K.; Bartholmae, Jack N.; and Barry, Michael W., 4,686,698, Cl. 379-53.000.
  Tompkins, E. Neal; Arends, Thomas C.; and Barry, Michael W., 4,710,917, Cl. 370-62.000.
Barry, Robert F., to Westinghouse Electric Corp. System for optical monitoring of machine positions. 4,639,591, 1-27-87, Cl. 250-221.000.
Barry, Robert F., to Westinghouse Electric Corp. Navigation system for unmanned vehicles. 4,653,002, 3-24-87, Cl. 364-424.000.
Barry, Robert F.: *See—*
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  Wilson, John F.; and Barry, Robert F., 4,684,496, Cl. 376-352.000.
Barry, Robert L.: *See—*
  Andersen, John E.; Barry, Robert L.; Christie, Kenneth H.; and Shea, Dennis J., 4,663,742, Cl. 365-189.000.
Barry, Vincent J.; Boucher-Puputti, Brenda A.; Fitzgerald, Thomas W.; and Bawolek, Edward J., to GTE Laboratories Incorporated. Via formation for multilayered metalization. 4,659,427, 4-21-87, Cl. 156-643.000.
Barry Wright Corporation: *See—*
  Chin, Laurence D.; Hiscock, Christopher J.; and Domeier, Wayne H., 4,714,865, Cl. 318-563.000.
  Haarmann, Walter; and Bremer, Hans-Joachim, 4,705,489, Cl. 464-69.000.
  King, Steven M., 4,706,505, Cl. 73-862.040.
  Pardo, Jacob; and Jensen, William S., 4,687,127, Cl. 277-12.000.
Barsa, John J.: *See—*
  Farris, Edward T.; Barsa, John J.; Lagow, Richard J.; and Capano, Paul J., 4,673,355, Cl. 433-218.000.
Barsi Erzsebet Almasine: *See—*
  Erzsebet, Almasine B.; Almasi, Istvan; Toth, Arpad; Benke, Istvan; and Bajkay, Arpad, 4,674,900, Cl. 374-131.000.
Barskaya, Evgenia G.: *See—*
  Chernin, Semen M.; Barskaya, Evgenia G.; and Semenova, Galina P., 4,676,652, Cl. 356-439.000.
Barski, Guy, to CII Honeywell Bull (Societe Anonyme). Magnetic disc cartridge with ventilating structure. 4,636,891, 1-13-87, Cl. 360-97.000.
Barsky, Samuel M., to GCA Corporation. Microlithographic reticle positioning system. 4,667,415, 5-26-87, Cl. 33-568.000.
Barsony, Istvan, to Research Development Corporation of Japan. Method of manufacturing a recessed gate of a semiconductor device. 4,679,307, 7-14-87, Cl. 29-576.00B.
Barstow, Kenneth T. Coreholder. 4,711,406, 12-8-87, Cl. 242-72.00R.
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  Andrusch, Georg; Baisch, Joachim; Barsuhn, Horst; Wernicke, Friedrich C.; and Widmann, Siegfried K., 4,713,814, Cl. 371-21.000.
Barsuhn, Peter, to Fried. Krupp Geselischaft mit beschrankter Haftung. Telescoping crane boom. 4,688,689, 8-25-87, Cl. 212-267.000.

Barsumian, Edward L.: *See—*
  Devlin, John P.; Hargrave, Karl D.; Barsumian, Edward L.; and Possanza, Genus J., 4,661,481, Cl. 514-218.000.
Bart, Edward F.: *See—*
  Chu, Arthur S.; Bart, Edward F.; Cook, George R.; and Horbachewski, David M., 4,664,774, Cl. 208-6.000.
Bart, Gordon B., to Battle Creek Equipment Company. Exercise treadmill. 4,643,418, 2-17-87, Cl. 272-69.000.
Bart, Hans J.: *See—*
  Prior, Adalbert; Marr, Rolf; and Bart, Hans J., 4,670,115, Cl. 204-109.000.
Bart, Hansueli: *See—*
  Mesenich, Gerhard; Bart, Hansueli; and Alsbrock, Daniel E., 4,708,117, Cl. 123-533.000.
Bart, Joseph: *See—*
  Schwind, Richard J.; Bart, Joseph; and Wollar, Burnell, 4,674,931, Cl. 411-175.000.
Barta, Donald J.; and Sollner, George H., to Phelps Dodge Industries, Inc. Essentially linear polymer having a plurality of amide, imide and ester groups therein, a tinnable and solderable magnet wire, and a method of making the same. 4,659,622, 4-21-87, Cl. 428-379.000.
Barta, Gyorgy; and Aszlanyi, Jozsef, to Innofinance Altalanos Innovacios Penzintezet. Process and apparatus for dehumidification of gaseous media. 4,634,455, 1-6-87, Cl. 55-32.000.
Barta, Istvan: *See—*
  Komives, Tamas; Dutka, Ferenc; Barta, Istvan; Jablonkai, Istvan; Hulesch, Agnes; Bihari, Ferenc; Eifert, Gyula; Bohus, Peter; Nagy, Mihaly; Bacskai, Gyorgy; and Kuronya, Istvan, 4,708,733, Cl. 71-94.000.
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  Keve, Tibor; Zsadon, Bela; Fekete, Gyorgy; Galambos, Janos; Barta nee Bukovecz, Margit; Szporny, Laszlo ; Forgacs, Lilla; Kiraly, Arpad; Soos, Gyongyver; Kiss, Bela; and Zajer nee Balazs, Maria, 4,680,397, Cl. 546-51.000.
Barta, Robert E.: *See—*
  Sweeny, Mark F.; Gershenson, Meir; Fleming, David L.; and Barta, Robert E., 4,660,061, Cl. 357-5.000.
Bartasevich, William E., Jr.: *See—*
  Lackner, John R.; and Bartasevich, William E., Jr., 4,683,607, Cl. 15-323.000.
Bartch, Donald W.: *See—*
  Deal, Samuel B.; and Bartch, Donald W., 4,638,213, Cl. 313-479.000.
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  Hessler, Alfred; and Bartczak, Andrzej, 4,652,052, Cl. 297-341.000.
Barteck, Werner W.; and Gordon, Theodore H., to Libbey-Owens-Ford Co. Mold structure for producing an encapsulated window assembly. 4,688,752, 8-25-87, Cl. 249-85.000.
Bartek, Joseph P.: *See—*
  Brazdil, James F.; Teller, Raymond G.; Bartek, Joseph P.; and Grasselli, Robert K., 4,665,259, Cl. 585-500.000.
Bartel Engineering Limited: *See—*
  Fry, Timothy S., 4,704,921, Cl. 74-714.000.
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  Kleefeldt, Frank; and Bartel, Peter, 4,637,239, Cl. 70-264.000.
Bartell, Frederick O. Blackbody simulator with uniform emissivity. 4,672,211, 6-9-87, Cl. 250-493.100.
Bartell Industries Ltd.: *See—*
  Zelenka, Frank, 4,640,553, Cl. 299-39.000.
Bartell, Michael T. Apparatus and method for insertion of an intra-ocular lens. 4,681,102, 7-21-87, Cl. 128-303.00R.
Bartelme, Michael J., III: *See—*
  Ciuba, Stanley J.; and Bartelme, Michael J., III, 4,675,215, Cl. 427-372.200.
Bartels, Alfred, to Nordischer Maschinenbau Rud. Baader GmbH & Co. KG. Apparatus for severing the flaps of fish. 4,649,603, 3-17-87, Cl. 17-54.000.
Bartels, Alfred, to Nordischer Maschinenbau Rud. Baader GmbH & Co. KG. Process for gaining the meat from poultry and apparatus for performing this process. 4,688,297, 8-25-87, Cl. 17-46.000.
Bartels, Inske E. H.: *See—*
  Tolksdorf, Wolfgang F. M.; Bartels, Inske E. H.; and Pross, Elke B., 4,707,058, Cl. 350-96.120.
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Bartels-Keith, Dorothy F., executrix: *See—*
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Bartels, Stefan, to Licentia Patent-Verwaltungs-GmbH. Waveguide junction circulator. 4,672,333, 6-9-87, Cl. 333-1.100.
Bartelsen, Lutz, to Flachglas Aktiengesellschaft. Process and apparatus for testing transparent material webs, particularly plate glass ribbons. 4,697,082, 9-29-87, Cl. 250-341.000.
Bartelt, John L.: *See—*
  Ward, J. William; Bartelt, John L.; Seliger, Robert L.; and McKenna, Charles M., 4,687,940, Cl. 250-492.200.
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Barten, Antonius M.; and Senn, Georg, to Sulzer Brothers Limited Apparatus and method for storing filamentous material for use in weaving machine. 4,667,706, 5-26-87, Cl. 139-452.000.
Barten, Axel: *See—*
  Richter, Gerhard; and Barten, Axel, 4,691,548, Cl. 72-21.000.
Bartenbach, Christian; Moeller, Martin; and Lanzenberger, Rudolf, t Siemens Aktiengesellschaft. Arrangement for illuminating a roo with daylight. 4,699,467, 10-13-87, Cl. 350-259.000.
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Bartesch, Helmut, and Florin, Gerd, to Sulzer-Escher Wyss Limited Apparatus for treating soybeans. 4,681,029, 7-21-87, Cl. 99-483.00
Bartfield, William; and Ferguson, Charles L., to Prize Frize, Inc. Appa ratus for preparing fried potato products. 4,646,627, 3-3-87, C 99-330.000.
Bartges, George R.: *See—*
  McClure, Gerald B.; and Bartges, George R., 4,650,009, C 175-4.600.
Barth, Heinz; Hubner, Erwin; Heynisch, Hinrich; and Schneider, Adol to Siemens Aktiengesellschaft. Gas laser tube and method for manu facturing the same. 4,653,060, 3-24-87, Cl. 372-61.000.
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Barth, Joseph J.: *See—*
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Barth, Merlyn W.: *See—*
  Kosednar, Joseph F.; and Barth, Merlyn W., 4,711,993, C 235-380.000.
Barth, Phillip W., to Stanford University. Method of making a semicon ductor transducer having multiple level diaphragm structur 4,665,610, 5-19-87, Cl. 29-580.000.
Barth, Rudiger, to Licentia Patent-Verwaltungs-GmbH. Control pan for a tape recorder. 4,638,389, 1-20-87, Cl. 360-72.100.
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Barth, Volker: *See—*
  Itzel, Hanshelmut; and Barth, Volker, 4,705,191, Cl. 222-80.00
Bartha, Ferenc: *See—*
  Lempert, Karoly; Hornyak, Gyula; Bartha, Ferenc; Doleschal Gabor; Fetter, Jozsef; Nyitrai, Jozsef; Simig, Gyula; Zauer Karoly; Huszthy, Peter; Feller, Antal; Petocz, Luiza; Szin Eniko; Grasser, Katalin; Berenyi, Edit; Orr, Zsuzsanna; and Pjeczka, Etelka, 4,665,083, Cl. 514-370.000.
Bartha, Istvan V.: *See—*
  Idegren, Gustav L.; Gyllstal, Lars-Goran L.; and Bartha, Istvan V 4,714,029, Cl. 109-45.000.
Barthel, Walter: *See—*
  Muller, Karl H.; and Barthel, Walter, 4,710,229, Cl. 106-281.00R
Barthelemy, Herve ; and Legendre, Yves, to Soletanche. Hydro-dri with circular impression. 4,682,660, 7-28-87, Cl. 175-96.000.
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Barthelemy, Pierre: *See—*
  Mendy, Francois; and Barthelemy, Pierre, 4,701,468, C 514-547.000.
  Mendy, Francois; and Barthelemy, Pierre, 4,701,469, C 514-547.000.
Barthell, Eduard; Capelle, Anthony; Chmelir, Miroslav; and Dahmen Kurt, to Chemische Fabrik Stockhausen GmbH. Copolymers o n-alkyl acrylates and maleic anhydride and their use as crystallizatio inhibitors for paraffin-bearing crude oils. 4,663,491, 5-5-87, C 585-3.000.
Barthelmess, Ulrich, to Omya GmbH. Agitating mill, particularly agitating ball mill. 4,673,134, 6-16-87, Cl. 241-57.000.
Barthlome, Donald E. Therapeutic multiple joint exerciser. 4,671,25 6-9-87, Cl. 128-26.000.
Barthold, Klaus: *See—*
  Baur, Richard; Oppenlaender, Knut; and Barthold, Klaus 4,705,834, Cl. 525-540.000.
  Martischius, Franz-Dieter; Karau, Dieter; Arnold, Werner; and Barthold, Klaus, 4,675,348, Cl. 523-323.000.
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Bartholic, David B.; and Barger, Dwight F., to Engelard Corporatio Hydrocarbon conversion process. 4,693,809, 9-15-87, Cl. 208-127.00
Bartholmae, Jack N.: *See—*
  Tompkins, E. Neal; Riley, Kim K.; Bartholmae, Jack N.; and Barr Michael W., 4,686,698, Cl. 379-53.000.
  Tompkins, E. Neil; and Bartholmae, Jack N., 4,716,585, C 379-202.000.
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Bartholomaus, Reiner; and Widmann, Karlheinz, to Mannesmann Re roth GmbH. Proportional magnet. 4,709,619, 12-1-87, Cl. 92-130.000
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Bartholomew, Donald D. High pressure fluid conduit assembly 4,669,757, 6-2-87, Cl. 285-55.000.

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Bartholomew, Roy E.: *See—*
- Koening, James P.; Knight, David J.; Szudy, James E.; Bartholomew, Roy E.; and Wurst, William R., 4,714,483, Cl. 55-163.000.
- Pugh, James G.; Johnson, Duane R.; and Bartholomew, Roy E., 4,691,968, Cl. 303-52.000.

Bartholomew, Victor L.; and Lentz, David J., to Warner-Lambert Company. Suturing saddle. 4,650,473, 3-17-87, Cl. 604-174.000.

Bartholow, Paul A., to Hei, Inc. Cordless light pen. 4,677,428, 6-30-87, Cl. 340-708.000.

Barthomeuf, Jean-Claude S., to Eimco Secoma, Societe Anonyme. Hydrualic pressure amplifier. 4,659,294, 4-21-87, Cl. 417-397.000.

Bartimes, George F.; and Blomquist, Leonard A., to Continental Plastic Containers, Inc. Label separator. 4,637,600, 1-20-87, Cl. 271-93.000.

Bartizal, Dennis C.: *See—*
- Scholz, Matthew T.; Bartizal, Dennis C.; Reed, Katherine E.; Larson, Wayne K.; Ersfeld, Dean A.; Sandvig, Timothy C.; and Buckanin, Richard S., 4,667,661, Cl. 128-90.000.

Bartke, Ulrich: *See—*
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Bartley, Francis A.: *See—*
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Bartley, William J., to Union Carbide Corporation. Hydrogenolysis of polyalkylene glycols to produce monoethylene glycol monoalkyl ethers, monoethylene glycol and ethanol. 4,649,225, 3-10-87, Cl. 568-678.000.

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Bartos, Josef A., to Tire Inflation Systems Corp. Apparatus for controlling air pressure in vehicle tires. 4,705,090, 11-10-87, Cl. 152-417.000.

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Colberg, Horst; Degen, Hans-Juergen; and Dix, Johannes P., 4,656,256, Cl. 534-605.000.

Colberg, Horst; and Hahn, Erwin, 4,694,075, Cl. 534-604.000.

Degen, Hans-Juergen; and Kraus, Hans, 4,671,799, Cl. 8-638.000.

Degner, Dieter; Gramlich, Walter; Hoffmann, Werner; and Schuster, Ludwig, 4,654,167, Cl. 252-522.00R.

Degner, Dieter; Hannebaum, Heinz; and Steiniger, Michael, 4,661,217, Cl. 204-59.00R.

Degner, Dieter; and Steckhan, Eberhard, 4,699,698, Cl. 204-59.00R.

Dehnert, Johannes; and Lamm, Gunther, 4,650,860, Cl. 534-766.000.

Denzinger, Walter; Hartmann, Heinrich; Hettche, Albert; Kaluza, Ulrich; Perner, Johannes; and Vamvakaris, Christos, 4,647,396, Cl. 252-174.240.

Denzinger, Walter; Hartmann, Heinrich; Trieselt, Wolfgang; Hettche, Albert; Schneider, Rolf; and Raubenheimer, Hans-Juergen, 4,698,174, Cl. 252-174.240.

Denzinger, Walter; Hartmann, Heinrich; Trieselt, Wolfgang; Klahr, Erhard; and Hettche, Albert, 4,702,858, Cl. 252-174.240.

Dietrich, Gerhard; Nestler, Gerhard; Ruckh, Peter; and Herzog, Reinhard, 4,675,436, Cl. 560-205.000.

Ebel, Klaus; Reuther, Wolfgang; Weiss, Wolfram; and Lelgemann, Ludwig, 4,668,785, Cl. 544-196.000.

Ebel, Klaus; and Reuther, Wolfgang, 4,670,558, Cl. 544-196.000.

Ebenhoech, Franz L.; and Schlegel, Reinhold, 4,652,305, Cl. 75-0.5BA.

Elbs, Peter; Jeserich, Wolfgang-Dieter; and Wehr, Rudolf, 4,642,211, Cl. 264-85.000.

Ernst, Hansgeorg; Eckhardt, Heinz; and Paust, Joachim, 4,656,275, Cl. 544-251.000.

Ernst, Hansgeorg; Littmann, Wolfgang; and Paust, Joachim, 4,716,243, Cl. 558-395.000.

Etzbach, Karl-Heinz; and Neumann, Peter, 4,667,019, Cl. 534-577.000.

Etzbach, Karl-Heinz; and Vamvakaris, Christos, 4,667,020, Cl. 534-577.000.

Etzbach, Karl-Heinz, 4,681,699, Cl. 252-299.100.

Etzbach, Karl-Heinz; Neumann, Peter; Dust, Matthias; Ringsdorf, Helmut; Schmidt, Hans-Werner; Baur, Guenter; Windscheid, Friedrich; and Kiefer, Rudolf, 4,702,945, Cl. 428-1.000.

Fehrenbach, Hubert; Koch, Volker; and Boese, Bernhard, 4,671,145, Cl. 82-1.00C.

Felleisen, Peter; Krug, Aribert; and Grosshans, Peter, 4,656,420, Cl. 324-212.000.

Fikentscher, Rolf; Hahn, Erwin; Kud, Alexander; and Oftring, Alfred, 4,652,669, Cl. 558-441.000.

Fikentscher, Rolf; Hahn, Erwin; Kud, Alexander; and Oftring, Alfred, 4,654,432, Cl. 558-357.000.

Fikentscher, Rolf; Heimann, Sigismund; Mertens, Heinrich; Schneider, Siegfried; and Vescia, Michele, 4,704,132, Cl. 8-189.000.

Fischer, Adolf, deceased, 4,690,706, Cl. 71-91.000.

Fischer, Juergen; Zeiner, Hartmut; Nissen, Dietmar; Heinz, Gerhard; and Neumann, Peter, 4,649,080, Cl. 428-419.000.

Fischer, Kurt; Petersen, Harro; Kasch, Hellmuth; and Wistuba, Eckehardt, 4,644,028, Cl. 524-376.000.

Fischer, Kurt; Petersen, Harro; Loch, Werner; Kasch, Hellmuth; and Wistuba, Eckehardt, 4,663,379, Cl. 524-376.000.

Fischer, Rolf; and Paust, Joachim, 4,650,896, Cl. 560-112.000.

Franke, Albrecht, deceased; Mueller, Claus D.; and Lenke, Dieter, 4,670,435, Cl. 514-239.000.

Fritz, Gerhard; Eggersdorfer, Manfred; and Siegel, Hardo, 4,707,549, Cl. 544-336.000.

Fuchs, Hugo; Brand, Uwe; and Buchaeckert, Helmut, 4,683,305, Cl. 540-533.000.

Gaedcke, Harald; Braun, Ruediger; and Bauer, Roland, 4,643,772, Cl. 106-304.000.

Gehrken, Henning-Peter; Ernst, Hansgeorg; and Paust, Joachim, 4,645,845, Cl. 549-407.000.

Geiss, Karl-Heinz; Schmied, Bernhard; Raschack, Manfred; Lehmann, Hans-Dieter; Gries, Josef; and Ruebsamen, Klaus, 4,710,496, Cl. 514-183.000.

Graf, Fritz; and Hupfer, Leopold, 4,698,434, Cl. 548-342.000.

Graf, Hermann; Rentzea, Costin; Richarz, Winfried; Froehlich, Helmut; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, 4,663,324, Cl. 514-247.000.

Gramlich, Walter; Halbritter, Klaus; and Heilen, Gerd, 4,684,743, Cl. 558-374.000.

Gramlich, Walter; and Siegel, Hardo, 4,707,302, Cl. 512-11.000.

Graser, Fritz; and Stange, Andreas, 4,667,417, Cl. 34-9.000.

Grenacher, Armin V.; Strohmeyer, Max; Hoffmann, Herwig; and Elliehausen, Heinrich, 4,709,105, Cl. 568-883.000.

Grimmer, Johannes; and Horn, Hans C., 4,673,742, Cl. 544-251.000.

Grimmer, Johannes; and Horn, Hans C., 4,687,[illegible]47, Cl. 544-251.000.

Grosskinsky, Otto-Alfred; Frommer, Elmar; Ritz, Josef; Thomas, Erwin; and Weiss, Franz-Josef, 4,634,584, Cl. 423-265.000.

Gruehn, Dietrich; Fehrenbach, Hubert; and Holl, Norbert, 4,688,129, Cl. 360-133.000.

Grychtol, Klaus, 4,663,441, Cl. 534-696.000.

Habermann, Wolfgang; Pommer, Ernst-Heinrich; Hammes, Peter; Engelhardt, Hubert; Geiger, Wolfgang; Simmler, Werner; and Huber, Guenther, 4,670,360, Cl. 429-33.000.

Habermann, Wolfgang; Hammes, Peter; Engelhardt, Hubert; Geiger, Wolfgang; Haltrich, Walter; and Simmler, Werner, 4,696,749, Cl. 210-721.000.

Hagen, Helmut; and Kohler, Rolf-Dieter, 4,667,035, Cl. 544-246.000.

Hagen, Helmut; Ziegler, Hans; Kohler, Rolf-Dieter; Pommer, Ernst-Heinrich; and Dressel, Jurgen, 4,699,983, Cl. 546-311.000.

Hagen, Helmut; Kohler, Rolf-Dieter; Markert, Jurgen; and Wuerzer, Bruno, 4,715,889, Cl. 71-94.000.

Hambrecht, Juergen; Schmitt, Burghard; Swoboda, Johann; Wassmuth, Georg; Bernhard, Claus; and Stephan, Rudolf, 4,634,734, Cl. 525-85.000.

Hamprecht, Gerhard; Rohr, Wolfgang; and Varwig, Juergen, 4,673,740, Cl. 544-92.000.

Hamprecht, Gerhard; Varwig, Juergen; and Rohr, Wolfgang, 4,680,412, Cl. 548-480.000.

Hartig, Juergen; Herrmann, Guenter; and Lucas, Ekhart, 4,704,476, Cl. 568-342.000.

Hartmann, Heinrich; Hoffmann, Gerhard; Buensch, Hellmut; and Hofmann, Reiner, 4,643,963, Cl. 430-286.000.

Heil, Guenter; Lenz, Werner; and Kovacs, Jenoe, 4,666,783, Cl. 428-425.900.

Heinz, Gerhard; Schuette, Wilhelm; and Simon, Georg N., 4,645,785, Cl. 524-100.000.

Heinz, Gerhard; McKee, Graham E.; Simon, Georg N.; Kleber, Friedrich; and Knoll, Manfred, 4,666,973, Cl. 524-504.000.

Helwig, Reinhard; Neumann, Peter; Aumueller, Alexander; and Trauth, Hubert, 4,703,072, Cl. 524-99.000.

Henne, Andreas; and Jacobi, Manfred, 4,666,952, Cl. 522-14.000.

Herr, Dieter, 4,656,161, Cl. 514-56.000.

Hesse, Anton; Buensch, Hellmut; and Czauderna, Bernhard, 4,670,485, Cl. 523-436.000.

Hettche, Albert; Weiss, Stefan; Trauth, Hubert; Lechtken, Peter; and Horner, Michael, 4,680,327, Cl. 524-110.000.

Hibst, Hartmut; and Jakusch, Helmut, 4,650,597, Cl. 252-62.560.

Hibst, Hartmut; and Kullmann, Udo, 4,664,831, Cl. 252-62.590.

Hibst, Hartmut; Rudolf, Peter; and McKee, Graham E., 4,675,170, Cl. 423-594.000.

Hibst, Hartmut, 4,680,130, Cl. 252-62.600.

Himmele, Walter; Wiersdorff, Walter-Wielant; and Thyes, Marco, 4,656,282, Cl. 546-150.000.

Hoelderich, Wolfgang; Fischer, Rolf; Mross, Wolf D.; and Pape, Frank-Friedrich, 4,665,252, Cl. 585-431.000.

Hoelderich, Wolfgang; Merger, Franz; Mross, Wolf D.; and Fischer, Rolf, 4,694,107, Cl. 568-310.000.

Hoelderich, Wolfgang; Merger, Franz; and Fischer, Rolf, 4,709,097, Cl. 568-443.000.

Hoelderich, Wolfgang; Biffar, Werner; Irgang, Matthias; Mross, Wolf D.; Kroener, Michael; and Ambach, Eberhard, 4,711,930, Cl. 502-209.000.

Hoffmann, Gerhard; Hofmann, Reiner; and Elzer, Albert, 4,710,446, Cl. 430-281.000.

Hofmann, Friedbert; Krabetz, Richard; and Schwarzmann, Matthias, 4,656,157, Cl. 502-439.000.

Hofmeister, Peter; Buerstinghaus, Rainer; and Adolphi, Heinrich, 4,642,368, Cl. 560-65.000.

Horn, Peter; Baumann, Edwin; and Marx, Matthias, 4,714,718, Cl. 521-134.000.

Hupfer, Leopold; Merger, Franz; Broecker, Franz J.; and Fischer, Rolf, 4,677,230, Cl. 568-450.000.

Iden, Ruediger; and Seybold, Guenther, 4,667,036, Cl. 546-37.000.

Jahn, Dieter; Becker, Rainer; Keil, Michael; Richarz, Winfried; Siegel, Hardo; Spiegler, Wolfgang; and Wuerzer, Bruno, 4,654,073, Cl. 71-88.000.

Janssen, Bernd; Karbach, Stefan; Meyer, Norbert; and Laur, Gerhard, 4,652,580, Cl. 514-383.000.

Janssen, Bernd; Koenig, Horst; and Scharwaechter, Peter, 4,663,338, Cl. 514-383.000.

Janssen, Bernd; Meyer, Norbert; Pommer, Ernst-Heinrich; Ammermann, Eberhard; Kohlmann, Friedrich-Wilhelm; Wesenberg, Walter; and Heberle, Wolfgang, 4,670,454, Cl. 514-383.000.

Jesse, Joachim, 4,664,715, Cl. 106-309.000.

Keil, Michael; Jahn, Dieter; Becker, Rainer; Goetz, Norbert; Wuerzer, Bruno; and Meyer, Norbert, 4,659,367, Cl. 91-90.000.

Keil, Michael; Becker, Rainer; Goetz, Norbert; Jahn, Dieter; Spiegler, Wolfgang; and Wuerzer, Bruno, 4,668,275, Cl. 71-88.000.

Keil, Michael; Schirmer, Ulrich; Jahn, Dieter; Becker, Rainer; Wuerzer, Bruno; and Meyer, Norbert, 4,692,553, Cl. 564-185.000.

Kempe, Uwe; and Dockner, Toni, 4,658,035, Cl. 548-342.000.

Kempe, Uwe; Dockner, Toni; and Schlick, Rolf, 4,672,128, Cl. 548-343.000.

Kempter, Fritz E.; Petersen, Harro; Schupp, Eberhard; Sabelus, Gunther; and Schmidt, Horst, 4,647,604, Cl. 523-402.000.

Kempter, Fritz E.; and Nieberle, Juergen, 4,675,375, Cl. 528-140.000.

Kerth, Juergen; and Vogt, Heinz, 4,713,430, Cl. 526-159.000.

Kiehs, Karl; Wuerzer, Bruno; and Meyer, Norbert, 4,689,068, Cl. 71-86.000.

Kiehs, Karl; Wurzer, Bruno; and Meyer, Norbert, 4,692,187, Cl. 71-107.000.

Koenig, Karlheinz; Kohl, Lambert; Witz, Ruediger; and Roeger, Bernd, 4,672,491, Cl. 360-106.000.

Kohl, Albert; Melzer, Milena; Lehner, August; Schneider, Norbert; Koester, Eberhard; Balz, Werner; Sommermann, Friedrich; and Ricker, Ernst, 4,66[illegible]56, Cl. 428-411.100.

Kossmann, Heribert; Matthaei, Lothar; Ley, Gregor; Wistuba, Eckehardt; and Wulgaris, Savas, 4,636,548, Cl. 524-524.000.

Kranz, Joachim, 4,680,387, Cl. 540-136.000.

Kraus, Friedrich; Matthias, Guenther; Wittmann, Otto; and Diem, Hans, 4,684,690, Cl. 524-419.000.

Kurps, Armin; Fischer, Hermann; Hartmann, Jurgen; and Hartmann, Heinrich, 4,645,568, Cl. 203-14.000.

Lach, Dietrich; Streicher, Rolf; and Strickler, Rainer, 4,675,021, Cl. 8-94.240.

Lamm, Gunther, 4,652,633, Cl. 534-773.000.

Lange, Arno; Kiehs, Karl; and Adolphi, Heinrich, 4,699,923, Cl. 514-535.000.

Lechtken, Peter; Buethe, Ingolf; Jacobi, Manfred, and Trimborn, Werner, 4,710,523, Cl. 522-14.000.

Lehner, August; Kohl, Albert; Balz, Werner; Sommermann, Friedrich; Velic, Milan; Grau, Werner; and Baur, Reinhold 4,647,513, Cl. 428-694.000.

Lehner, August; Kohl, Albert; Roller, Hermann; Balz, Werner Koester, Eerhard; and Sommermann, Friedrich, 4,656,093, C 428-403.000.

Lehner, August; Heil, Guenter; Kovacs, Jenoe; Balz, Werner; and Lenz, Werner, 4,666,781, Cl. 428-425.900.

Lehner, August; Balz, Werner; Lenz, Werner; Kohl, Albert; and Heil, Guenter, 4,671,969, Cl. 427-48.000.

Lehner, August; Heil, Guenter; Lenz, Werner; Balz, Werner; Kohl Albert; and Schornick, Gunnar, 4,673,591, Cl. 427-48.000.

Leininger, Hartmut; Littmann, Wolfgang; Paust, Joachim; and Trautmann, Walter, 4,692,527, Cl. 544-405.000.

Lenz, Werner; Sander, Hans; and Moeller, Dieter, 4,687,813, C 525-131.000.

Leyrer, Reinhold J.; Wegner, Gerhard; and Mueller, Michael 4,640,960, Cl. 525-388.000.

Leyrer, Reinhold J.; Wegner, Gerhard; and Mueller, Michael 4,649,100, Cl. 430-326.000.

Lindner, Alfred; Wagner, Ulrich; Volkamer, Klaus; and Rebafk Walter, 4,647,344, Cl. 203-29.000.

Loeffler, Hermann; and Dyllick-Brenzinger, Rainer, 4,668,774, C 534-728.000.

Lorenz, Klaus; Balzer, Wolf-Dieter; Wolf, Helmut; Trieselt, Wolfgang; and Busse, Gerd, 4,704,453, Cl. 536-18.600.

Lotsch, Wolfgang; and Henning, Georg, 4,645,539, Cl. 106-288.000.

Lotsch, Wolfgang; Bock, Gustav; and Neumann, Peter, 4,707,54 Cl. 544-284.000.

Manzke, Klaus; Weis, Hans-Joachim; and Soehring, Gerhard 4,660,120, Cl. 360-137.000.

Manzke, Klaus; Schneider, Richard; and Kohl, Lambert, 4,680,65 Cl. 360-98.000.

Martin, Roland; and Janitschke, Lothar, 4,656,272, Cl. 544-197.00

Martischius, Franz-Dieter; Karau, Dieter; Arnold, Werner; and Barthold, Klaus, 4,675,348, Cl. 523-323.000.

Marx, Matthias; and Jaehne, Joachim, 4,656,201, Cl. 521-166.00

Mayer, Udo; and Oberlinner, Andreas, 4,647,675, Cl. 549-394.00

McAliley, J. Eugene; Daumit, Gene P.; Ethridge, Frederick A. and Crozier, James R., Jr., 4,714,642, Cl. 428-113.000.

McAliley, John E.; and Crozier, James R., Jr., 4,633,550, C 28-272.000.

McAliley, John E.; and Crozier, James R., Jr., 4,675,957, C 28-272.000.

McKee, Graham E.; Ohlig, Hilmar; Reimann, Horst; and Sterzel Hans-Josef, 4,694,042, Cl. 525-66.000.

Melzer, Milena; Roller, Hermann; Schneider, Norbert; Fitterer Horst; and Munzner, Wulf, 4,645,723, Cl. 428-694.000.

Merger, Franz; and Schwarz, Wolfgang, 4,634,558, Cl. 260-404.00

Merger, Franz; Hettinger, Peter; Weber, Theodor; Boettger Guenter; and Koernig, Wolfgang, 4,665,219, Cl. 560-189.000.

Merger, Franz; and Liebe, Joerg, 4,672,137, Cl. 560-25.000.

Merger, Franz; and Schwarz, Wolfgang, 4,686,302, Cl. 558-314.00

Merger, Franz; and Towae, Friedrich, 4,695,645, Cl. 560-24.000.

Merger, Franz; Hutmacher, Hans-Martin; Hettinger, Peter; Voges Dieter; and Lengsfeld, Wolfgang, 4,709,072, Cl. 558-450.000.

Merger, Franz; and Towae, Friedrich, 4,713,476, Cl. 560-115.00

Merkel, Dieter; Muehlthaler, Wolfgang; Diem, Hans; and Matthias Guenther, 4,700,000, Cl. 562-606.000.

Messmer, Karlheinz; Hennig, Karl; Denzinger, Walter; Hettche Albert; Trieselt, Wolfgang; and Raubenheimer, Hans-Juergen 4,670,524, Cl. 526-88.000.

Moehwald, Helmut, 4,636,430, Cl. 428-304.400.

Mueller, Gerhard; Marx, Matthias; Jarre, Wolfgang; Baumann Edwin; and Buethe, Ingolf, 4,668,708, Cl. 521-159.000.

Mueller, Hans; and Puetter, Hermann, 4,670,125, Cl. 204-296.00

Mueller, Herbert, 4,638,097, Cl. 568-617.000.

Mueller, Herbert, 4,670,519, Cl. 525-342.000.

Mueller-Mall, Rudolf; Melan, Michael; Wistuba, Eckehardt; and Matthaei, Lothar, 4,654,397, Cl. 524-460.000.

Muller, Josef; Wiersdorff, Walter-Wielant; Burst, Wolfram; Dralle Heinz; Schaffner, Ernst; and Steinkamp, Rolf, 4,661,610, C 558-344.000.

Naarmann, Herbert; Koehler, Gernot; and Schlag, Johannes 4,640,749, Cl. 204-59.00R.

Naarmann, Herbert; Schmitt, Burghard; and Barzynski, Helmut 4,665,129, Cl. 525-186.000.

Nickels, Helmut; and Hackenberger, Alfred, 4,705,869, C 549-317.000.

Oehsen, Ubbo v.; Stecher, Karlheinz; Koehler, Waldemar; Mueller Berthold; Brunnmueller, Fritz; and Schneider, Rolf, 4,693,87 Cl. 423-373.000.

Oftring, Alfred; Hahn, Erwin; and Fikentscher, Rolf, 4,670,591, C 564-224.000.

Ohlinger, Manfred; Mueller, Norbert; Rudolf, Peter; and Wettstein Eugen, 4,670,177, Cl. 252-62.550.

Oppenlaender, Knut; Stork, Karl; Hovemann, Friedrich; and Schwartz, Erich, 4,657,560, Cl. 44-51.000.

Oppenlaender, Knut; Stork, Karl; Hovemann, Friedrich; and Schwartz, Erich, 4,675,025, Cl. 44-51.000.

Osterloh, Rolf; Schupp, Eberhard; Loch, Werner; and Ahlers Klaas, 4,713,440, Cl. 528-367.000.

Ostertag, Werner; Wienand, Henning; and Bauer, Roland 4,702,775, Cl. 106-304.000.

- Parg, Adolf; Hamprecht, Gerhard; and Wuerzer, Bruno, 4,650,905, Cl. 564-430.000.
- Penzel, Erich; Prange, Walter; Melan, Michael; Wistuba, Eckehardt; and Mueller, Alfred, 4,663,384, Cl. 524-519.000.
- Petermann, Juergen; and Fuchs, Harald, 4,647,523, Cl. 430-296.000.
- Pfaff, Klaus-Peter; Paust, Joachim; and Hartmann, Horst, 4,681,936, Cl. 536-124.000.
- Pfefferkorn, Dietmar; Nerschbach, Gerhard; Koester, Eberhard; Kreimes, Norbert; and Pavelka, Bozidar, 4,656,548, Cl. 360-132.000.
- Pilz, Georg; Buerger, Gert; Barl, Manfred; and Thiel, Gerhard, 4,713,201, Cl. 260-501.170.
- Pilz, Georg; Buerger, Gert; Barl, Manfred; and Thiel, Gerhard, 4,713,437, Cl. 528-336.000.
- Plath, Peter; Rohr, Wolfgang; Schwendemann, Volker; and Wuerzer, Bruno, 4,636,246, Cl. 71-92.000.
- Pohrt, Juergen; Matern, Ruediger; Jenne, Helmut; Gausepohl, Hermann; and Gerberding, Karl, 4,647,621, Cl. 525-71.000.
- Rebafka, Walter; and Nickels, Helmut, 4,645,863, Cl. 568-899.000.
- Rentzea, Costin; Sauter, Hubert; Karbach, Stefan; Will, Wolfgang; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, 4,678,798, Cl. 514-383.000.
- Rentzea, Costin; Sauter, Hubert; Zeeh, Bernd; Heilen, Gerd; and Jung, Johann, 4,684,392, Cl. 71-76.000.
- Rentzea, Costin; Buschmann, Ernst; Himmele, Walter; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, 4,708,960, Cl. 514-383.000.
- Reuvers, Johannes G.; Richter, Wolfgang; and Kummer, Rudolf, 4,645,855, Cl. 560-204.000.
- Rieber, Norbert; Boehm, Heinrich; Pommer, Ernst-Heinrich; and Dressel, Juergen, 4,673,429, Cl. 71-27.000.
- Ritter, Klaus; Michaelsen, Klaus; and Mair, Gunther, 4,681,328, Cl. 277-80.000.
- Roche, Peter; and Rank, Mathaeus, 4,649,162, Cl. 521-78.000.
- Roeser, Karl; Lauer, Manfred; Sauter, Hubert; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, 4,639,447, Cl. 514-222.000.
- Roos, Roland; Dieter Schomann, Klaus; and Muenzner, Wulf, 4,667,261, Cl. 360-130.210.
- Rossy, Phillip A.; Thyes, Marco; Franke, Albrecht; Koenig, Horst; Lehmann, Hans Dieter; Gries, Josef; Friedrich, Ludwig; and Lenke, Dieter, 4,636,504, Cl. 514-252.000.
- Ruechardt, Christoph; Jaehme, Joachim; and Salz, Ulrich, 4,691,020, Cl. 546-341.000.
- Sauerwald, Manfred; Dockner, Toni; Rohr, Wolfgang; and Reissenweber, Gernot, 4,670,567, Cl. 549-13.000.
- Schaeffer, Norbert; Bettinger, Gunter; Goetz, Klaus; Pfefferkorn, Dietmar; Burkle, Ottmar; Schmidts, Kurt; Schneider, Pierre; Wagner, Werner; Wietholter, Dieter; Dietze, Herbert; and Andriessen, Wilhelmus, 4,709,288, Cl. 360-130.210.
- Schefczik, Ernst, 4,667,051, Cl. 558-375.000.
- Schick, Hans; Kolk, Erich; Fauth, Karl-Heinz; and Mohr, Heinrich, 4,691,072, Cl. 585-525.000.
- Schirmer, Ulrich; Plath, Peter; Sauter, Hubert; and Wuerzer, Bruno, 4,642,132, Cl. 71-90.000.
- Schirmer, Ulrich; Karbach, Stefan; Pommer, Ernst-Heinrich; Ammermann, Eberhard; Steglich, Wolfgang; Schwalge, Barbara A. M.; and Anke, Timm, 4,709,078, Cl. 560-060.000.
- Schmidt, Hans U.; and Werner, Frank, 4,636,531, Cl. 521-163.000.
- Schneider, Alfred; and Eberhard, Joachim, 4,706,813, Cl. 206-387.000.
- Schoettle, Klaus; Berger, Heinz; Dietze, Herbert; and Seitz, Joachim, 4,656,549, Cl. 360-132.000.
- Schoettle, Klaus, 4,678,140, Cl. 242-199.000.
- Schoettle, Klaus; Schmidts, Kurt; Kamm, Eugen; and Berger, Heinz, 4,679,110, Cl. 360-132.000.
- Schoettle, Klaus; Buhk, Artur; Kamm, Eugen; Berger, Heinz; and Gaiser, Dieter, 4,687,157, Cl. 242-199.000.
- Schoettle, Klaus; Sold, Roland; Brinkmann, Uwe; and Wagner, Werner, 4,709,290, Cl. 360-132.000.
- Schornick, Gunnar; Elzer, Albert; and Hofmann, Reiner, 4,714,751, Cl. 528-103.000.
- Schrott, Wolfgang; Neumann, Peter; and Albert, Bernhard, 4,675,423, Cl. 556-136.000.
- Schuett, Walter, 4,673,083, Cl. 206-387.000.
- Schuette, Wilhelm; McKee, Graham Edmund; Hilt, Albrecht; Heinz, Gerhard; and Goerrissen, Heiner, 4,639,488, Cl. 524-456.000.
- Schulz, Guenter; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, 4,678,504, Cl. 71-94.000.
- Schupp, Eberhard; Osterloh, Rolf; Loch, Werner; and Ahlers, Klaas, 4,713,406, Cl. 523-415.000.
- Seiler, Erhard; Hambrecht, Juergen; and Heinz, Gerhard, 4,672,086, Cl. 524-127.000.
- Seufert, Walter; Goetz, Norbert; Becker, Rainer; and Schwendemann, Volker, 4,658,071, Cl. 568-903.000.
- Sommer, Karl; Heinz, Robert; Hettche, Albert; Perner, Johannes; Schuster, Werner; and Trieselt, Wolfgang, 4,695,397, Cl. 252-182.000.
- Sperling, Karin; and Fischer, Martin, 4,709,109, Cl. 585-438.000.
- Stanek, Richard; Marx, Hans-Norbert; Hettler, Wendelin; and Wagner, Claus, 4,716,054, Cl. 427-297.000.
- Steckhan, Eberhard; Wolf, Reinhard; and Puetter, Hermann, 4,681,977, Cl. 560-262.000.
- Steinberger, Rolf; Schlag, Johannes; Schlichting, Karl; Seiler, Erhard; Von Tomkewitsch, Sibylle; and Schmidt, Hans-Friedrich, 4,655,964, Cl. 252-511.000.
- Steiner, Gerd; and Thyes, Marco, 4,661,591, Cl. 540-495.000.
- Steiniger, Michael; and Stroefer, Eckhard, 4,702,803, Cl. 204-59.00R.
- Sterzel, Hans-Josef, 4,645,819, Cl. 528-125.000.
- Sterzel, Hans-Josef; and Sanner, Axel, 4,711,907, Cl. 521-27.000.
- Straehle, Wolfgang; Marx, Matthias; and Schuett, Uwe, 4,698,410, Cl. 528-76.000.
- Streit, Werner; Witt, Linda; Angstmann, Heinz-Dieter; Blanckenhorn, Rolf; and Fikentscher, Rolf, 4,654,043, Cl. 8-189.000.
- Tesch, Helmut; Portugall, Michael; Stutz, Herbert; and Heinz, Gerhard, 4,665,150, Cl. 528-98.000.
- Thoemel, Frank; and Hoffmann, Werner, 4,665,221, Cl. 560-249.000.
- Thomas, Michael; Neumann, Peter; Wegerle, Dieter; and Krallmann, Reinhold, 4,707,161, Cl. 8-442.000.
- Trautmann, Walter; and Vogel, Friedrich, 4,659,837, Cl. 548-321.000.
- Tschang, Chung-Ji; Messmer, Karlheinz; and Denzinger, Walter, 4,647,637, Cl. 526-264.000.
- Tschang, Chung-Ji; Messmer, Karlheinz; and Denzinger, Walter, 4,658,002, Cl. 526-264.000.
- Vogel, Hans-Henning, 4,681,719, Cl. 264-122.000.
- Warzelhan, Volker; Bachl, Robert; Ball, Wolfgang; Funk, Guido; and Laun, Martin, 4,705,835, Cl. 526-116.000.
- Weiss, Franz-Josef; Habermann, Wolfgang; Hammes, Peter; Frommer, Elmar; Thomas, Erwin; and Thoma, Peter, 4,645,579, Cl. 204-182.400.
- Welz, Martin; Czauderna, Bernhard; and Stoffel, Karl-Heinz, 4,692,373, Cl. 428-285.000.
- Werner, Arend; Hibst, Hartmut; and Schomann, Klaus D., 4,670,332, Cl. 428-323.000.
- Werner, Frank; Marx, Matthias; and Schmidt, Hans U., 4,698,371, Cl. 521-131.000.
- Willems, Martin; Feilen, Albert; and Urban, Otfried, 4,676,375, Cl. 206-444.000.
- Woerner, Frank P.; Neumann, Peter; Mahnke, Harald; Lamprecht, Josef; Horn, Dieter; Turznik, Gerhard; Kraus, Friedrich; Kaeppel, Hanshelmut; and Heim, Eduard, 4,666,948, Cl. 521-105.000.
- Wuest, Hans-Heiner; Frickel, Fritz-Frieder; and Nuerrenbach, Axel, 4,659,701, Cl. 514-130.000.
- Wuest, Hans-Heiner; Janssen, Bernd; Frickel, Fritz-Frieder; and Nuerrenbach, Axel, 4,714,786, Cl. 568-633.000.
- Zeeh, Bernd; Ammermann, Eberhard; Buschmann, Ernst; and Pommer, Ernst-Heinrich, 4,659,705, Cl. 514-184.000.
- Ziegler, Walter; Dietsche, Wolfram; Weiss, Stefan; Mueller, Richard; Hettche, Albert; Glaser, Klaus; and Vamvakaris, Christos, 4,693,909, Cl. 427-156.000.

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- Alford, Robert A.; and Braemer, Mark C., 4,687,534, Cl. 156-308.600.
- Bird, David Owen, 4,674,271, Cl. 57-2.000.
- Boyd, Jack D.; and Shimp, David A., 4,644,039, Cl. 525-422.000.
- Christman, Donald L., 4,664,563, Cl. 405-288.000.
- Crema, Stefano C., 4,676,916, Cl. 252-8.553.
- Davis, John E.; and Heyman, Duane A., 4,661,531, Cl. 521-137.000.
- Davis, Pauls; and Mente, Donald C., 4,675,445, Cl. 564-437.000.
- Deck, Charles F.; and Carson, James E., 4,640,791, Cl. 252-75.000.
- Dexheimer, Edward M.; and Thir, Basil, 4,689,082, Cl. 106-38.220.
- Dexheimer, Edward M., 4,699,727, Cl. 252-77.000.
- Dexheimer, Edward M., 4,702,741, Cl. 8-115.600.
- Donegan, Thomas E.; and Leary, Timothy G., 4,709,021, Cl. 540-141.000.
- Finnan, Jeffrey L., 4,634,781, Cl. 549-411.000.
- Finnan, Jeffrey L., 4,639,533, Cl. 549-411.000.
- Finnan, Jeffrey L.; Lisa, Rudolph E.; and Schmidt, Douglass N., 4,710,519, Cl. 514-629.000.
- Foye, Thomas E.; and Sasamoto, Edward K., 4,634,471, Cl. 106-262.000.
- Hays, Byron G.; and Stanaback; Robert J., 4,648,907, Cl. 106-30.000.
- Hendrix, David C., 4,655,937, Cl. 210-772.000.
- Mauney, Glenn H., 4,656,823, Cl. 57-73.000.
- Narayan, Thirumurti, 4,636,530, Cl. 521-159.000.
- Narayan, Thirumurti; and Kan, Peter T., 4,677,154, Cl. 524-710.000.
- Niu, Joseph H. Y.; and Schmolka, Irving R., 4,637,822, Cl. 44-51.000.
- Owens, James P.; and Deck, Charles F., 4,673,518, Cl. 252-75.000.
- Panek, Edward J.; and Davis, Pauls, 4,649,224, Cl. 568-624.000.
- Panek, Edward J.; and Davis, Pauls, 4,665,239, Cl. 568-624.000.
- Panek, Edward J.; and Davis, Pauls, 4,709,099, Cl. 568-624.000.
- Parker, Edward J., 4,661,279, Cl. 252-94.000.
- Pickering, Trevor P.; Paton, George A.; Gusack, James A.; Smith, Thomas E.; Sanders, John H.; Nichols, Sterling M.; Pursoo, Johnson L.; Lindsay, John W.; and Streetman, William E., 4,704,311, Cl. 427-393.100.
- Ramlow, Gerhard G.; Heyman, Duane A.; Grace, Oscar M.; Reichel, Curtis J.; and Hartman, Robert J., 4,689,354, Cl. 521-137.000.
- Ramlow, Gerhard G.; Heyman, Duane A.; and Grace, Oscar M., 4,690,956, Cl. 521-137.000.
- Reichel, Curtis J.; Levis, William W., Jr.; and Hartman, Robert J., 4,637,893, Cl. 252-182.000.
- Sanders, John H.; Hoblit, Louis D.; and Mann, Joe A., 4,716,055, Cl. 427-304.000.
- Schmitt, Thomas M.; Allen, George M.; and Davis, Pauls, 4,647,705, Cl. 568-868.000.

  - Schmolka, Irving R., 4,668,430, Cl. 252-522.00R.
  - Schmolka, Irving R., 4,678,664, Cl. 424-65.000.
  - Schwartz, Ellen S.; Davis, Pauls; and Maxwell, Jerrold F., 4,686,058, Cl. 252-75.000.
  - Vahlenkamp, Hans H.; and Calabrese, Frank A., 4,659,842, Cl. 549-247.000.
- BASF Corporation, Inmont Division: *See—*
  - Hays, Byron G., 4,643,770, Cl. 106-23.000.
  - Hays, Byron G., 4,680,057, Cl. 106-23.000.
  - Martin, Glenn E., 4,705,839, Cl. 528-49.000.
- BASF Farben & Fasern AG: *See—*
  - Batzill, Wolfgang; Dobbelstein, Arnold; Geist, Michael; Schon, Georg; and Ott, Gunther, 4,661,541, Cl. 523-414.000.
  - Batzill, Wolfgang; Dobbelstein, Arnold; Geist, Michael, Schon, Georg; and Ott, Gunther, 4,707,232, Cl. 204-181.700.
  - Diefenbach, Horst; Dobbelstein, Arnold; and Hille, Hans-Dieter, 4,684,676, Cl. 523-411.000.
  - Diefenbach, Horst; and Geist, Michael, 4,686,249, Cl. 523-410.000.
  - Geist, Michael, 4,661,410, Cl. 428-418.000.
  - Hegemann, Gunther; and Miedeck, Karin, 4,691,002, Cl. 528-289.000.
  - Lauke, Arno, 4,659,450, Cl. 204-299.0EC.
  - Loch, Werner; Schupp, Eberhard; Osterloh, Rolf; and Ahlers, Klaas, 4,699,937, Cl. 523-415.000.
- BASF-Inmont Division: *See—*
  - McVay, Robert L.; Emo, Cathy V.; and Rush, Virginia P., 4,666,982, Cl. 525-109.000.
- Basha, Fatima Z.: *See—*
  - DeBernardis, John F.; and Basha, Fatima Z., 4,634,705, Cl. 514-256.000.
- Basham, Michael T.; Berdahl, Robert M.; and Field, Bruce E., to Tennant Company. Speed and steering control for a floor maintenance machine. 4,709,771, 12-1-87, Cl. 180-6.500.
- Bashford, David P.: *See—*
  - Denison, Samuel J. M.; and Bashford, David P., 4,714,409, Cl. 416-134.00A.
- Bashford, Dennis J.; and Blackham, Geoffrey H., to Rediffusion Simulation Limited. Field blanking pulse modifier. 4,679,080, 7-7-87, Cl. 358-150.000.
- Basic American Foods: *See—*
  - Dover, Jerome J., 4,694,742, Cl. 99-404.000.
  - Huffman, Samuel J.; and Tinsley, Joel R., 4,676,990, Cl. 426-634.000.
  - Porter, Roy W., 4,643,900, Cl. 426-21.000.
- Basic, John N., Sr. Pulsating incinerator hearth. 4,706,578, 11-17-87, Cl. 110-281.000.
- Basic Measuring Instruments: *See—*
  - McEachern, Alexander; and Terry, Steve, 4,642,563, Cl. 324-111.000.
  - McEachern, Alexander; and Nitz, Frederic, 4,694,402, Cl. 364-487.000.
- Basic Packaging Systems, Inc.: *See—*
  - Titchenal, Oliver R., 4,685,148, Cl. 383-37.000.
- Basile, Philip C., to RCA Corporation. Solid state RF switch with self-latching capability. 4,639,614, 1-27-87, Cl. 307-243.000.
- Basile, Philip C., to RCA Corporation. Frequency-division multiplex communications system having grouped transmitters and receivers. 4,646,295, 2-24-87, Cl. 370-123.000.
- Basile, Philip C., to RCA Corporation. Bias control circuit for RF switch. 4,712,020, 12-8-87, Cl. 307-256.000.
- Basilowski, Herbert: *See—*
  - Reimann, Jurgen-Andreas; and Basilowski, Herbert, 4,695,960, Cl. 364-474.000.
- Basinger, David M.; Hatley, Gary L.; Kiser, Billy J.; and Moser, James N., to Fieldcrest Cannon, Inc. Apparatus for automatically and continuously feeding and folding textile articles. 4,678,173, 7-7-87, Cl. 270-45.000.
- Basinsky, Michael J.; Bird, Dale T.; and Smith, Daniel W., to Dowell Schlumberger Incorporated. Machinery skid. 4,638,971, 1-27-87, Cl. 248-678.000.
- Basire, Alain, to Commissariat a l'Energie Atomique. Cut-off amplifier. 4,654,776, 3-31-87, Cl. 363-127.000.
- Basiulis, Algerd, to Hughes Aircraft Company. Rechargeable thermal control system. 4,673,030, 6-16-87, Cl. 165-32.000.
- Baskett, Ira E., to Motorola, Inc. Current steering differential write circuit for memory cells. 4,712,193, 12-8-87, Cl. 365-190.000.
- Baskett, Ira E.; and Sluss, Gene T., to Motorola, Inc. Current switch for programming vertical fuses of a read only memory. 4,716,547, 12-29-87, Cl. 365-96.000.
- Baskharone, Erian A.: *See—*
  - Howe, William J.; Bush, Duane B.; and Baskharone, Erian A., 4,674,955, Cl. 416-95.000.
- Baskin, Mark E.: *See—*
  - Myers, Daniel O.; and Baskin, Mark E., 4,658,550, Cl. 51-165.720.
- Basler, Bradley S.; and Harrison, Douglas H., to Pindar Development Corporation. Cooling device for mounting and protecting an optical element. 4,660,132, 4-21-87, Cl. 362-294.000.
- Basler Electric Company: *See—*
  - Fernandez, Manuel; and Frierdich, Waldo J., 4,701,690, Cl. 322-28.000.
  - Frierdich, Waldo J., 4,639,657, Cl. 322-59.000.
  - Watkins, Tommy R., 4,661,792, Cl. 336-65.000.
- Basler, Urs: *See—*
  - Block, Franz-Rudolf; Theissen, Wolfgang; Basler, Urs; and Pesovic, Branislav, 4,708,191, Cl. 164-150.000.
- Basmadji, Mounir P.; and Ruinsky, Michael. Universal valance assembly. 4,662,421, 5-5-87, Cl. 160-38.000.
- Basnar, Paul J.: *See—*
  - Nelson, Robert E.; Ziegler, Anton A.; Serino, David F.; and Basnar, Paul J., 4,666,676, Cl. 422-159.000.
- Basnett, David T., to Die-Mold Tool Ltd.; and Mold-Masters Limited Replaceable rocker arm assembly for injection molding system 4,712,995, 12-15-87, Cl. 425-562.000.
- Basnett, Robert T., to Westinghouse Electric Corp. Vacuum interrupter with bellows shield. 4,672,156, 6-9-87, Cl. 200-144.00B.
- Basol, Bulent M.; and Biter, William J., to Standard Oil Company, The Stable front contact current collector for photovoltaic devices and method of making same. 4,647,711, 3-3-87, Cl. 136-256.000.
- Basol, Bulent M., to Standard Oil Commercial Development Company and BP Solar International Ltd. Method of making multilayer ohmic contact to thin film p-type II–VI semiconductor. 4,666,569, 5-19-8 Cl. 204-34.500.
- Basol, Bulent M.; and Tseng, Eric S., to Standard Oil Company, The Stable contact between current collector grid and transparent conductive layer. 4,675,468, 6-23-87, Cl. 136-256.000.
- Basol, Bulent M., to Sohio Commercial Development Co. Multilayer ohmic contact for p-type semiconductor and method of making same 4,680,611, 7-14-87, Cl. 357-71.000.
- Basore, Wayne; Zander, Susan; and Kiernan, Arthur, to Worldsbe Industries, Inc. Removably-supported hamper bag and foldable support therefor. 4,646,802, 3-3-87, Cl. 150-49.000.
- Basov, Emma: *See—*
  - Bailey, James R.; and Basov, Emma, 4,695,116, Cl. 439-188.000.
- Bass, C. David: *See—*
  - Caswell, Robert L.; and Bass, C. David, 4,636,950, Cl. 364-403.00
- Bass, Edmund P.; and Sharpee, Richard L., to Norden Laboratories Inc. Inactivated rabies vaccine for veterinary use. 4,711,778, 12-8-8 Cl. 424-89.000.
- Bass, Harold E.; and Bass, Richard E., to Bassco, Inc. Casing pump 4,696,624, 9-29-87, Cl. 417-56.000.
- Bass, John C.; and Elsner, Norbert B., to GA Technologies Inc. Modular thermoelectric conversion system. 4,639,542, 1-27-87, C 136-210.000.
- Bass, Joseph A.: *See—*
  - Barnes, David; Bass, Joseph A.; Butler, John D.; and McKenn Robert H., 4,664,702, Cl. 75-68.00R.
- Bass, Richard A., to Automotive Products plc. Hydraulic master cylinder assembly. 4,635,442, 1-13-87, Cl. 60-594.000.
- Bass, Richard A., to Automotive Products plc. Brake discs. 4,645,04 2-24-87, Cl. 188-218.0XL.
- Bass, Richard A., to Automotive Products plc. Brake disc assembly 4,662,482, 5-5-87, Cl. 188-18.00A.
- Bass, Richard E.: *See—*
  - Bass, Harold E.; and Bass, Richard E., 4,696,624, Cl. 417-56.000
- Bass, Robert G.: *See—*
  - Hergenrother, Paul M.; Bass, Robert G.; Sinsky, Mark S.; and Connell, John W., 4,663,483, Cl. 564-396.000.
- Bass, Robert H.; Macko, William J.; and Lockhart, Robert K., Jr., t Motorola, Inc. Function coding via digital addresses in a two-wa system. 4,641,364, 2-3-87, Cl. 455-32.000.
- Bass, Ronald M.: *See—*
  - Eastlund, Bernard J.; Schmitt, Kenneth J.; and Bass, Ronald M. 4,678,034, Cl. 166-248.000.
- Bass, Vance R.; Bonebrake, Veronica A.; Garrison, David A.; Landis James K.; Neff, Mary S.; Urquhart, Robert J.; and Williams, Susan C. to International Business Machines Corporation. Compound word suitability for spelling verification. 4,672,571, 6-9-87, Cl. 364-900.00
- Bass, Vance R.; Bonebrake, Veronica A.; Garrison, David A.; Landis James K.; Neff, Mary S.; Urquhart, Robert J.; and Williams, Susan C. to International Business Machines Corporation. Compound word spelling verification. 4,701,851, 10-20-87, Cl. 364-419.000.
- Bass, Walter E.; Matyas, Stephen M.; and Oseas, Jonathan, to International Business Machines Corporation. Method for establishing us authenication with composite session keys among cryptographically communicating nodes. 4,649,233, 3-10-87, Cl. 380-21.000.
- Bassani, Carlo; and Busse, Claus A. O., to European Atomic Energy Community (Euratom). Pressure-controlled heat pipe. 4,674,56 6-23-87, Cl. 165-96.000.
- Bassco, Inc.: *See—*
  - Bass, Harold E.; and Bass, Richard E., 4,696,624, Cl. 417-56.000
- Basseches, Jack. Balloon support. 4,661,081, 4-28-87, Cl. 446-220.000
- Basseen, Sanjiv K.; and Harlan, Richard A. Air dryer for pneumatic systems. 4,638,852, 1-27-87, Cl. 165-47.000.
- Basselier, Jean-Jacques: *See—*
  - Clement, Jean-Luc; Lemaire, Michele; Lange, Catherine; Lhommet, Gerard; Celerier, Jean-Pierre; Basselier, Jean-Jacques; and Cassier, Pierre, 4,707,489, Cl. 514-408.000.
- Basser, Theodore E.: *See—*
  - Wadhera, Anil K.; Tang, Alex K.; and Basser, Theodore E. 4,705,916, Cl. 174-35.0GC.
- Basset Bretagne Loire - B.B.L.: *See—*
  - Lebas, Jean-Marie; Rat, Pierre; Dupont, Jean-Marcel; and Vinues Germain, 4,710,329, Cl. 264-3.100.
- Basset, Jean M.; Leconte, Michel; Ollivier, Jean; and Quignard, Francoise, to Societe Nationale Elf Aquitaine. Metathesis of olefins with catalyst based upon a tungsten complex. 4,654,462, 3-31-87, C 585-646.000.
- Basset, Jean M. M.; Leconte, Michel; Ollivier, Jean; and Quignard Francoise, to Societe Nationale Elf Aquitaine. Catalyst for the metathesis of olefins. 4,639,429, 1-27-87, Cl. 502-117.000.

- Bassett, Alton H.: *See—*
  - Dyer, John; Kennette, John W.; Bassett, Alton H.; and Hall, Stanley D., 4,639,253, Cl. 604-362.000.
- Bassett, Alvin L. Router table. 4,679,606, 7-14-87, Cl. 144-134.00A.
- Bassett, Alvin L. Router attachment for saw tables. 4,688,613, 8-25-87, Cl. 144-136.00R.
- Bassett, Gregory S.; and Bollman, Robert L., to Eli Lilly and Company. Bolus assembly apparatus. 4,698,116, 10-6-87, Cl. 156-423.000.
- Bassett, I. Jay; and Case, Leo L., to Bassett, I. Jay. Electrodeposition coating apparatus. 4,663,014, 5-5-87, Cl. 204-299.0EC.
- Bassett, Max, to James Howden & Company Limited. Pipeline safety joint. 4,688,827, 8-25-87, Cl. 285-2.000.
- Bassetti, Piero, to Bassetti S.p.A. Removable linings for snugly wrapping tridimensional articles. 4,642,826, 2-17-87, Cl. 5-496.000.
- Bassetti S.p.A.: *See—*
  - Bassetti, Piero, 4,642,826, Cl. 5-496.000.
- Bassi, Dario; and Palau, Joseph, to Establissements Staubli Verdol. Mobile hook for the shed forming device of a weaving loom. 4,690,178, 9-1-87, Cl. 139-455.000.
- Bassi, Dario: *See—*
  - Palau, Joseph; and Bassi, Dario, 4,682,634, Cl. 139-85.000.
  - Palau, Joseph; and Bassi, Dario, 4,702,286, Cl. 139-455.000.
- Bassi, Pawan K.: *See—*
  - Omid, Ahmad; and Bassi, Pawan K., 4,701,205, Cl. 71-78.000.
- Bassler, Jurgen: *See—*
  - Siekmann, Helmut E.; Bassler, Jurgen; and Liebig, Winfried, 4,657,565, Cl. 55-55.000.
- Basso, Marlene. Tanning booth. 4,674,507, 6-23-87, Cl. 128-396.000.
- Basso, Robert J. Journal with spring loaded bearings. 4,668,109, 5-26-87, Cl. 384-518.000.
- Bastanzuri, Remberto P., to Scheck, Michael, a part interest. Process for removing ink particles from paper products. 4,680,088, 7-14-87, Cl. 162-4.006.
- Basten, Julie T.: *See—*
  - Ellis, Louise C.; Fahrenkrug, Anne M.; Basten, Julie T.; and Milner, James D., 4,701,177, Cl. 604-385.00A.
- Bastenbeck, Edwin W.: *See—*
  - Hajdu, Juan B.; and Bastenbeck, Edwin W., 4,663,240, Cl. 428-545.000.
- Bastenhof, Dirk. Fuel injection pump for an internal combustion engine comprising a device for adjusting the instant of injection fuel delivery. 4,705,006, 11-10-87, Cl. 123-506.000.
- Bastian, Arthur L., to G. General Electro-Components, Inc. Solenoid coil connection. 4,677,408, 6-30-87, Cl. 335-255.000.
- Bastian, John M., to Hamilton Industries, Inc. Adjustable table leg assembly. 4,667,605, 5-26-87, Cl. 108-144.000.
- Bastian, John M.; Pflieger, David C.; and Beck, Marshall K., to Hamilton Industries, Inc. Cantilever arm assembly for modular furniture. 4,700,916, 10-20-87, Cl. 248-225.200.
- Bastian, Robert: *See—*
  - Diepeveen, Neal; and Bastian, Robert, 4,641,192, Cl. 358-206.000.
- Bastian, Robert E.: *See—*
  - Diepeveen, Neal; and Bastian, Robert E., 4,682,029, Cl. 250-330.000.
- Bastien, Ernest J. Sealed neck support for shampoo bowls. 4,649,580, 3-17-87, Cl. 4-523.000.
- Bastijanic, Edward: *See—*
  - Fry, John J.; Bastijanic, Edward; and Robertson, John W., Jr., 4,703,407, Cl. 363-16.000.
  - Robertson, John W., Jr.; Bastijanic, Edward; and Sterling, Edward L., Jr., 4,655,074, Cl. 73-4.00R.
- Bastin, Danielle: *See—*
  - Broze, Guy; Bastin, Danielle; Laitem, Leo; and Ouhadi, Trazollah, 4,655,954, Cl. 252-102.000.
- Basting, Jack A. Tensile exercise device. 4,690,402, 9-1-87, Cl. 272-137.000.
- Bastone, Robert P., to Sierracin Corporation. Automatic roller swage machine. 4,658,616, 4-21-87, Cl. 72-19.000.
- Basu, Rajat S.; Wilson, David P.; Lund, Earl A. E.; Pham, Hang T.; and Bonner, John K., to Allied Corporation. Azeotrope-like compositions of trichlorotrifluoroethane, methanol, nitromethane and hexane. 4,655,956, 4-7-87, Cl. 252-153.000.
- Basu, Rajat S.: *See—*
  - Wilson, David P.; Basu, Rajat S.; Pham, Hang T.; Lund, Earl A. E.; and Bonner, John K., 4,654,160, Cl. 252-153.000.
  - Wilson, David P.; Pham, Hang T.; Lund, Earl A. E.; Basu, Rajat S.; and Pelava, John W., 4,683,075, Cl. 252-171.000.
- Basuyaux, Michel, to Societe Europeenne de Recherche d'Instrumentations Medicales Company. Intrauterine contraceptive device for animals such as female dogs. 4,655,204, 4-7-87, Cl. 128-130.000.
- Baswell, Imogene; Walsh, Kimberly; and Benz, Eric, to Richards Medical Company. Chemical polishing process for titanium and titanium alloy surgical implants. 4,704,126, 11-3-87, Cl. 623-10.000.
- Basyouni, Mohamed: *See—*
  - Froening, Helmut; and Basyouni, Mohamed, 4,637,175, Cl. 52-27.000.
- BAT Cigarettenfabriken GmbH: *See—*
  - Filter, Goetz; and Jaeckel, Gisbert, 4,674,697, Cl. 242-58.100.
- Bata Schuh AG: *See—*
  - Fink, Hans, 4,680,877, Cl. 36-44.000.
- Batai, Masaru: *See—*
  - Katayama, Kazuo; Ooishi, Katumi; Ogawa, Toshiake; Batai, Masaru; and Kataoka, Mitsuru, 4,660,852, Cl. 280-750.000.
- Bataille, Christian: *See—*
  - Belbel, Elie; Bataille, Christian; Blanchard, Christian; Haury, Andre ; and Lauraire, Michel, 4,682,132, Cl. 335-14.000.
  - Belbel, Elie; Bataille, Christian; Blanchard, Christian; Haury, Andre ; and Lauraire, Michel, 4,700,160, Cl. 335-14.000.
- Batalden, Glenn D.: *See—*
  - Anthony, Bruce O., Jr.; Batalden, Glenn D.; Mitchell, Glen R.; Schloss, Phillip C.; and Wells, David K., 4,709,328, Cl. 364-200.000.
- Batalkina, Tatyana M.: *See—*
  - Abduganiev, Aburakhim; Zhigalov, Gennady V.; and Batalkina, Tatyana M., 4,672,801, Cl. 57-86.000.
- Batchelder, David N.: *See—*
  - Pitt, Gillies D.; Batchelder, David N.; Jones, Roger E.; and Neat, Rosamund C., 4,637,071, Cl. 455-603.000.
- Batchelder, William T.; Piatt, John A.; and Sautter, Kenneth M., to GCA Corporation. Resist development method. 4,647,172, 3-3-87, Cl. 354-298.000.
- Batcheller, Roy W., to Craneveyor Corp. Panel rail system. 4,690,383, 9-1-87, Cl. 256-24.000.
- Batchelor, Douglas R., to Libman Broom Company. Sponge mop retainer with retraction rod hook receiving catch. 4,706,323, 11-17-87, Cl. 15-119.00A.
- Batchelor, Robert B., to American Motors Corporation. Transfer case for vehicle drivetrains. 4,644,822, 2-24-87, Cl. 74-695.000.
- Batchelor, Robert B., to American Motors Corporation. Transfer case for multiple drive axle vehicle. 4,677,875, 7-7-87, Cl. 74-695.000.
- Batchelor, Ronnie K.; and Rowe, Ronnie R. Master keyboard. 4,641,509, 2-10-87, Cl. 70-388.000.
- Batchman, Theodore E.; and Gimpelson, George E., to University of Virginia Alumni Patents Found. Miniature electromagnetic field measurement probe. 4,642,558, 2-10-87, Cl. 324-72.500.
- Bate, Bernard: *See—*
  - Turner, Roger M.; Swerdlow, Martin S.; and Bate, Bernard, 4,662,887, Cl. 623-16.000.
- Batelle Development Corporation: *See—*
  - Gardner, David L., 4,637,905, Cl. 264-4.300.
- Batelle - Institut e.V.: *See—*
  - Erlenkamper, Siegbert; and Eisenblatter, Jurgen, 4,676,098, Cl. 73-290.00V.
- Bateman, Andrew: *See—*
  - McGeehan, Joseph P.; and Bateman, Andrew, 4,679,243, Cl. 455-47.000.
  - McGeehan, Joseph P.; and Bateman, Andrew, 4,691,375, Cl. 455-71.000.
- Bateman, Bruce L.: *See—*
  - Young, Kenneth E.; and Bateman, Bruce L., 4,636,983, Cl. 365-181.000.
- Bateman, Charles D.; and Grove, Michael M., to Sundstrand Data Control, Inc. Terrain advisory system. 4,646,244, 2-24-87, Cl. 364-461.000.
- Bateman, Charles D., to Sundstrand Data Control, Inc. Ground proximity warning system having modified terrain closure rate warning on glide slope approach. 4,684,948, 8-4-87, Cl. 340-970.000.
- Bateman, Frank E. Thermally protective drapery construction for windows, sliding glass doors, glass wall panels and the like. 4,679,609, 7-14-87, Cl. 160-124.000.
- Bateman, John R.; Goodacre, Brita C.; and Smithson, Alan, to Tate & Lyle Public Limited Company. Solid fructose. 4,710,231, 12-1-87, Cl. 127-30.000.
- Bateman, Paul M.; and Warner, John C., to Borg-Warner Corporation. Metal transmission belt. 4,645,479, 2-24-87, Cl. 474-242.000.
- Bateman, Terence; and Stevens, William W., to Stanton and Staveley Limited. Joints formed with welded flange pipes. 4,678,211, 7-7-87, Cl. 285-368.000.
- Bateman, Victor E.; and Gomes, Agnelo F. R., to Burroughs Corporation. Autoteller exchangeable banknote cassette system. 4,655,368, 4-7-87, Cl. 221-4.000.
- Bater, Reginald K., to Wadkin plc. Feed mechanism for woodworking machinery. 4,662,413, 5-5-87, Cl. 144-247.000.
- Bates, Albert M.; Sandford, Wayne H., Jr.; and Junod, Michael T., to United States of America, Navy. Programmable multichannel sonobuoy transmitter. 4,660,182, 4-21-87, Cl. 367-3.000.
- Bates, Brian L., to Cook, Incorporated. Two lumen hemodialysis catheter. 4,643,711, 2-17-87, Cl. 604-4.000.
- Bates, Brian L., to Cook, Incorporated. Apparatus and method for effecting percutaneous catheterization of a blood vessel using a small gauge introducer needle. 4,650,472, 3-17-87, Cl. 604-158.000.
- Bates, Carl H., to Stemcor Corporation. Silicon nitride/silicon carbide composition and articles thereof. 4,690,790, 9-1-87, Cl. 264-63.000.
- Bates, Cecil P.; and Shannon, Terrence W., to New Zealand Steel Limited. Production of liquid iron. 4,661,150, 4-28-87, Cl. 75-10.650.
- Bates, Daniel A.: *See—*
  - Chandek, Anthony R.; Weistroffer, Leon J.; Cooper, Donald E., and Bates, Daniel A., 4,644,144, Cl. 235-487.000.
- Bates, David, to Kendall Company, The. Bactericide valve on fluid collection bag. 4,693,712, 9-15-87, Cl. 604-323.000.
- Bates, David A., to Kendall Company, The. Collection system with valve members. 4,702,740, 10-27-87, Cl. 604-323.000.
- Bates, Donald L., to Eldon Industries, Inc. Demountable signboards. 4,683,670, 8-4-87, Cl. 40-620.000.
- Bates, Gary M.; Chambers, Gregory R.; and Ting, Sai-Pei, to General Electric Company. Impact modified polyphenylene ether-polyamide compositions. 4,681,915, 7-21-87, Cl. 525-148.000.
- Bates, Gary M.; Haaf, William R.; and Ting, Sai-Pei, to General Electric Company. Impact modified polyphenylene compositions. 4,684,696, 8-4-87, Cl. 525-68.000.
- Bates, Hans A.; and Rosenblum, Stuart, to Research Foundation of State University of New York, The. 1,3-dibenzyl-4-halohexahydro-

1H-thieno[3,4-d]imidazol-2(3H)-one intermediates. 4,656,289, 4-7-87, Cl. 548-303.000.

Bates, Harry L. Cosmetic lotion. 4,704,280, 11-3-87, Cl. 424-195.100.

Bates, Kenneth W.; and Griffiths, William A., to Injectall Limited. Apparatus for introducing substances into liquids e.g. metal melts. 4,701,215, 10-20-87, Cl. 75-53.000.

Bates, Peter C.: *See—*
  Ernst, Helmut; Breier, Alfred; Schwalbach, Manfred; Will, Karl-Heinz; Cameron, Alan B.; and Bates, Peter C., 4,680,009, Cl. 432-117.000.

Bates, Robert N., to U.S. Philips Corporation. Injection-locked waveguide oscillator. 4,642,577, 2-10-87, Cl. 331-47.000.

Bates, Roger D.; and Miller, Merlin R., to Tektronix, Inc. Coupling discriminator and interface adaptor. 4,647,912, 3-3-87, Cl. 340-825.500.

Bates, Thomas O.: *See—*
  Shoemaker, Lewis E.; and Bates, Thomas O., 4,639,576, Cl. 219-146.230.

Bates, Wayne C., to Amerock Corporation. Hardware for mounting a window sash. 4,679,352, 7-14-87, Cl. 49-192.000.

Bates, William T. D., to Bilbate Limited. Fluid sampling device. 4,640,297, 2-3-87, Cl. 128-765.000.

Bates, William T. D., to Bilbate Limited. Evacuating apparatus. 4,699,190, 10-13-87, Cl. 141-65.000.

Bates, William T. D. Sealing cap. 4,703,865, 11-3-87, Cl. 215-307.000.

Bateson, John E.: *See—*
  DuVall, Dale R.; Bateson, John E.; Hewitt, Lew V.; and Hewitt, David P., 4,706,227, Cl. 367-96.000.

Bateson, John H.: *See—*
  Lord, Leslie W.; Kendall, Kevin; Williams, David T.; and Bateson, John H., 4,707,351, Cl. 423-648.00R.

Batesville Casket Company, Inc.: *See—*
  Craft, William K., 4,639,985, Cl. 27-19.000.
  Schebler, Wilbur A.; Smith, Leslie W.; and Wettering, Carl A., 4,657,608, Cl. 156-64.000.

Bath, Axel: *See—*
  Amann, Hans; and Bath, Axel, 4,652,055, Cl. 299-8.000.

Bath, Duncan T.; and Ferguson, James H., to Canadian General Electric Company Limited. Method for securing conductor bar in machine slot while closing slot. 4,633,574, 1-6-87, Cl. 29-596.000.

Bath, Duncan T., to Canadian General Electric Company Limited. Hydraulically supported thrust bearings. 4,657,411, 4-14-87, Cl. 384-99.000.

Bath, Duncan T., to Canadian General Electric Company Limited. Supplementary cooling system for thrust bearing. 4,699,524, 10-13-87, Cl. 384-306.000.

Bath Iron Works Corporation: *See—*
  Bellefleur, Richard N., 4,665,300, Cl. 219-137.200.
  McIntire, Dana L., III, 4,660,610, Cl. 150-52.00R.

Bathelt, Heinrich; Ehrl, Winfried; Wehowsky, Frank; Kieber, Rolf; Lotz, Werner; Glenz, Wolfgang; Herdt, Hubert; Jackel, Lothar; Mast, Jan-Hilbert; Hintermeier, Karl; and Muller, Manfred, to Hoechst Aktiengesellschaft. Urethanes containing perfluoroalkyl and epichlorohydrin groups. 4,709,074, 11-24-87, Cl. 560-33.000.

Batina, William P.; and Gipson, Lamar H., to Cordis Corporation. Pulse to sine wave/sample decoder telemetry system. 4,700,707, 10-20-87, Cl. 128-419.0PT.

Batistic, Ivica: *See—*
  Belart, Juan; Fennel, Helmut; Seibert, Wolfram; and Batistic, Ivica, 4,643,492, Cl. 303-119.000.
  Fennel, Helmut; and Batistic, Ivica, 4,657,313, Cl. 303-96.000.
  Fennel, Helmut; Batistic, Ivica; and Determann, Otto, 4,688,858, Cl. 303-6.00R.

Batjer, John D.; Eades, Lindsay R.; Liedtke, Raymond J.; and Zebelman, Arthur M., to LabAdapt, Inc. Washer for disposable cuvette rotors. 4,641,674, 2-10-87, Cl. 134-138.000.

Batky, Michael, to Almac Plastics Inc. Motor vehicle glazing assembly and method of manufacture thereof. 4,635,420, 1-13-87, Cl. 52-309.100.

Batliwalla, Neville S.: *See—*
  Afkhampour, Khosrow; and Batliwalla, Neville S., 4,661,687, Cl. 219-301.000.

Bator, MaryAnn: *See—*
  Gardlund, Zachariah G.; and Bator, MaryAnn, 4,673,722, Cl. 528-73.000.

Batori, Sandor: *See—*
  Messmer, Andras; Batori, Sandor; Hajos, Gyorgy; Benko, Pal; Pallos, Laszlo; Petocz, Lujza; Grasser, Katalin; and Kosoczky, Ibolya, 4,697,013, Cl. 544-183.000.

Batra, Ram S.; and Pitcher, Kenneth A., to RCA Corporation. Interface circuit for video signal peaking control. 4,635,118, 1-6-87, Cl. 358-166.000.

Batra, Tarsaim L.: *See—*
  Joy, Richard C.; and Batra, Tarsaim L., 4,697,332, Cl. 437-29.000.

Batra, Vijay K. Shoe with audible message. 4,646,350, 2-24-87, Cl. 381-51.000.

Batson, David C.; and Goebel, Franz, to GTE Government Systems Corporation. Electrochemical cell with disc activator. 4,684,587, 8-4-87, Cl. 429-115.000.

Batson, David C.: *See—*
  Goebel, Franz; and Batson, David C., 4,684,588, Cl. 429-115.000.
  Haskins, Timothy B.; Goebel, Franz; Batson, David C.; and Zuffante, Charles R., 4,684,586, Cl. 429-115.000.

Batson, David M.: *See—*
  Cellier, Francis; Graulty, Robert T.; Johnson, Wendell L.; Batson, David M.; Limpert, John C.; Wu, Christopher K. C.; Bucher, George D.; John, Clarence D., Jr.; Steinkirchner, John E.; Larouere, Paula J.; Shah, Hemant H.; and Williams, Robert A., 4,687,605, Cl. 264-0.500.

Batt, Andre; and Delabie, Jacques, J. A., to Societe Nationale d'Etude et de Construction de Moteur d'Aviation S.N.E.C.M.A. Electromagnetic screening device for electrical cabling constituting bundles of cables comprising tappings. 4,640,980, 2-3-87, Cl. 174-36.000.

Batt, Gregory L.: *See—*
  Hatton, John H.; and Batt, Gregory L., 4,714,140, Cl. 180-20.000.

Batt, Theodore J.: *See—*
  Colbaugh, Michael E.; Zeigler, Rodney N.; and Batt, Theodore J., 4,666,102, Cl. 242-86.50R.

Battaglia, Gino C. Method and apparatus for cutting and polishing marble slabs. 4,660,539, 4-28-87, Cl. 125-10.000.

Battaglia, Joseph A.; and Fleming, Robert W., to Westinghouse Electric Corp. Method of vacuum degassing and refilling a reactor coolant system. 4,647,425, 3-3-87, Cl. 376-308.000.

Battaglia, Maryann; and Diskin, John P., to Battaglia, Maryann. Device for administering oxygen to infants during nursing. 4,669,461, 6-2-87, Cl. 128-202.150.

Battais, Alain, to Habia Cable SA. Method of making a foamed insulation coaxial cable for hyperfrequencies transmissions. 4,663,095, 5-5-87, Cl. 264-45.900.

Battais, Elisabeth: *See—*
  Coquelet, Claude; Battais, Elisabeth; Bonne, Claude; and Sincholle, Daniel, 4,665,085, Cl. 514-398.000.

Battelle Development Corporation: *See—*
  Ames, Kenneth R.; Doesburg, James M.; Eschbach, Eugene A.; Kelley, Roy C.; and Myers, David A., 4,669,536, Cl. 166-68.000.
  Ames, Kenneth R.; and Doesburg, James M., 4,688,999, Cl. 417-550.000.
  Beale, Harry A., 4,655,893, Cl. 204-192.150.
  Fawcett, Sherwood L., 4,646,694, Cl. 123-245.000.
  Liu, Ke-Tien; and Nack, Herman, 4,704,084, Cl. 431-7.000.
  Maringer, Robert E., 4,646,812, Cl. 164-479.000.
  Maringer, Robert E., 4,658,885, Cl. 164-463.000.
  McGinniss, Vincent D., 4,661,534, Cl. 522-131.000.
  Melton, Carl W.; Thompson, Dale G.; Vassamillet, Larry F.; and Wickersham, Charles E., 4,683,043, Cl. 204-192.150.
  Riley, William E., Jr.; Razgaitis, Richard; and Mesloh, Raymond E., 4,647,890, Cl. 335-278.000.
  Sherman, Rand C.; and Grieser, Daniel R., 4,637,056, Cl. 382-31.000.
  Sump, Kenneth R., 4,644,942, Cl. 623-16.000.
  Zega, Bogdan, 4,684,536, Cl. 427-47.000.

Battelle-Institut e.V.: *See—*
  Gurs, Karl, 4,635,270, Cl. 372-58.000.
  Gurs, Karl; and Hansen, Erich, 4,637,031, Cl. 372-86.000.
  Heide, Helmut; Etzkorn, Heinz-Werner; Poeschel, Eva; and Steininger, Helmut, 4,702,930, Cl. 427-2.000.
  Steininger, Helmut, 4,703,028, Cl. 502-178.000.

Battelle-Institute e.V.: *See—*
  Gurs, Karl; and Beck, Rasmus, 4,672,622, Cl. 372-58.000.

Battelle Memorial Institute: *See—*
  Armanet, Jean-Michel; Giddey, Claude; and Sachetto, Jean-Pierre, 4,665,158, Cl. 530-357.000.
  Bichon, Daniel, 4,675,381, Cl. 530-345.000.
  Dvorsky, James E.; Kelley, Brian A.; McCown, Robert B.; and Renner, G. Frederick, 4,634,917, Cl. 310-328.000.
  Fiorentino, Robert J., 4,647,426, Cl. 419-31.000.
  Giddey, Claude; Ayerbe, Andre ; and van Schouwenburg, Aaltje, 4,671,966, Cl. 426-589.000.
  Gonzalez Oliver, Carlos J. R.; De Pous, Olivier; and Schneider, Michel, 4,713,338, Cl. 435-176.000.
  Harrison, Harold D.; and Tuten, James M., 4,701,866, Cl. 364-550.000.
  James, Brian R.; Li-Lee, Chung; Lilga, Michael A.; and Nelson, David A., 4,693,875, Cl. 423-243.000.
  Kok, Kenneth D.; and Burian, Richard J., 4,663,533, Cl. 250-506.100.
  Leach, Eugene R.; Robbins, James A.; Helton, Steven B.; and Webb, Jeffrey J., 4,658,358, Cl. 364-418.000.
  Noir, Dominique; and Trouilhet, Yves, 4,635,630, Cl. 128-203.260.
  Pau, Louis F., 4,712,057, Cl. 324-73.00R.
  Place, John; and Bregnard, Andre, 4,715,943, Cl. 204-299.00R.
  Place, John F.; and Bregnard, Andre, 4,652,354, Cl. 204-182.800.
  Renner, G. Frederick; Thatcher, Richard K.; Atterbury, William G.; Harris, Jeremy M.; Hartman, Nile F.; and McCown, Robert B., 4,641,027, Cl. 250-237.00G.
  Ringrose, Anthony; Sutherland, Ranald M.; Dahne, Claus; and Place, John F., 4,668,636, Cl. 436-164.000.
  Rosenberg, Harvey S., 4,640,825, Cl. 423-235.000.
  Verber, Carl M., 4,712,089, Cl. 340-347.0AD.
  Wielonski, Roy F.; and Melling, Peter J., 4,704,299, Cl. 427-38.000.

Battelli, Gaetano; Oldani, Diego; and Rigamonti, Alessandro, to Farmitalia Carlo Erba S.p.A. Novel pharmacological compositions based on Cisplatinum and method for obtaining same. 4,670,262, 6-2-87, Cl. 424-131.000.

Battenfeld Maschinenfabriken GmbH: *See—*
  Fleckner, Heinz J., 4,676,654, Cl. 366-98.000.

Batterman, Cynthia K.; Augustine, Michael E.; and Dial, James R., to A. E. Staley Manufacturing Company. Sweetener composition. 4,676,991, 6-30-87, Cl. 426-658.000.

Batters, Robert C. Electrical therapeutic assembly and method for reducing pain and edema in a human body. 4,664,118, 5-12-87, Cl. 128-421.000.

Battersby, Patrick T.: *See—*

Claypool, Mark P.; and Battersby, Patrick T., 4,672,200, Cl. 250-227.000.

Battery Engineering, Inc.: *See—*

Marincic, Nikola; and Fuksa, Radek, 4,662,065, Cl. 29-623.100.

Battey, James F.; Nelson, Norvell J.; and Barnett, Daniel J., to PSI Star Copper etching process and product. 4,695,348, 9-22-87, Cl. 156-647.000.

Battie, Gabriel; and Bonnel, Yves, to Centre Stephanois de Recherches Mecaniques Hydromecanique et Frottement. Method and means for treating foundry sands and the like. 4,671,867, 6-9-87, Cl. 209-3.000.

Battig, Johann R., to Dow Chemical Company, The. Dispenser carton with dual interdigitating cutting edges. 4,648,537, 3-10-87, Cl. 225-43.000.

Battin, Leland B., Jr.: *See—*

Rehbein, Clayton J.; and Battin, Leland B., Jr., 4,678,215, Cl. 292-247.000.

Battin, Walt W.: *See—*

Bunkoczy, Bela; Wendorff, James A.; and Battin, Walt W., 4,702,969, Cl. 428-635.000.

Battista, Dino. BI-brachial motive supplementing device. 4,691,917, 9-8-87, Cl. 272-126.000.

Battista, Orlando A. Liquid retaining absorbent structure. 4,676,785, 6-30-87, Cl. 604-369.000.

Battista, Richard A.; Bennett, James G., Jr.; Kokoszka, John J.; and Tungate, Freddie L., to General Electric Company. Catalyst derived from mixture of manganese hydroxide and magnesium-containing material, and method of use in ortho-alkylation of phenols. 4,661,638, 4-28-87, Cl. 568-804.000.

Battiste, David R.; and Harris, Jesse R., to Phillips Petroleum Company. Pillared interlayered clays. 4,637,991, 1-20-87, Cl. 502-68.000.

Battiston, Joseph, Jr.: *See—*

Battiston, Joseph D., Sr.; and Battiston, Joseph, Jr., 4,640,301, Cl. 135-67.000.

Battiston, Joseph D., Sr.; and Battiston, Joseph, Jr., to Tubular Fabricators Industry, Inc. Foldable walker with plunger actuated latch assembly. 4,640,301, 2-3-87, Cl. 135-67.000.

Battle, Billy J.: *See—*

Jones, Lawrence S.; and Battle, Billy J., 4,660,866, Cl. 285-231.000.

Battle Creek Equipment Company: *See—*

Bart, Gordon B., 4,643,418, Cl. 272-69.000.

Battle, John R. Dual mode flush valve assembly. 4,651,359, 3-24-87, Cl. 4-324.000.

Battle, Stanley D., to United States of America, Air Force. Unique signal, safe and arm device. 4,635,552, 1-13-87, Cl. 102-254.000.

Batts, Colossie N., to United States of America, National Aeronautics and Space Administration. Comparator with noise suppression. 4,652,833, 3-24-87, Cl. 328-147.000.

Batts, Inc.: *See—*

Blanchard, Russell O., 4,638,930, Cl. 223-85.000.

Blanchard, Russell O.; and Duester, Everett, 4,653,678, Cl. 223-85.000.

Blanchard, Russell O., 4,660,750, Cl. 223-91.000.

Dooley, Edward J.; and Bredeweg, Robert A., 4,660,739, Cl. 221-70.000.

Battson, Donald F.: *See—*

Kosonocky, Walter F.; Battson, Donald F.; and Levine, Peter A., 4,656,518, Cl. 358-213.000.

Battu, Ramgopal: *See—*

Wevers, William E.; Krause, James N.; and Battu, Ramgopal, 4,679,102, Cl. 360-75.000.

Batutis, Edward F., to Filter Plate Company. Separation system using coalescing techniques. 4,643,834, 2-17-87, Cl. 210-740.000.

Baty, Kurt F.: *See—*

Samson, Joseph E.; Wolff, Kenneth T.; Reid, Robert; Hendrie, Gardner C.; Falkoff, Daniel M.; Dynneson, Ronald E.; Clemson, Daniel M.; and Baty, Kurt F., 4,654,857, Cl. 371-68.000.

Batz, Hans-Georg: *See—*

Kuhr, Manfred; Machat, Rudolf; Weckerle, Wolfgang; Batz, Hans-Georg; Herrmann, Rupert; Kleemann, Wolfgang; and Buschek, Herbert, 4,668,622, Cl. 435-14.000.

Batza, Willi; and Rosch, Werner, to Metallgesellschaft Aktiengesellschaft. Electrostatic precipitator electrode. 4,710,203, 12-1-87, Cl. 55-2.000.

Batzar, Kenneth, to Du Pont de Nemours, E. I., and Company. High build fluorocarbon polymer dispersions and their preparation. 4,687,708, 8-18-87, Cl. 428-339.000.

Batzill, Wolfgang; Dobbelstein, Arnold; Geist, Michael; Schon, Georg; and Ott, Gunther, to BASF Farben & Fasern AG. Alcohol-modified polyepoxides, their preparation and their use in curable mixtures. 4,661,541, 4-28-87, Cl. 523-414.000.

Batzill, Wolfgang; Dobbelstein, Arnold; Geist, Michael; Schon, Georg; and Ott, Gunther, to BASF Farben & Fasern AG. Alcohol-modified polyepoxides, their preparation and their use in curable mixtures. 4,707,232, 11-17-87, Cl. 204-181.700.

Baubeau, Robert: *See—*

Balquet, Robert; Baubeau, Robert; Bertrand, Jean-Paul; Guezou, Jean-Pierre; and Carron, Philippe, 4,708,077, Cl. 114-67.00A.

Bauch, Helmut; and Rehm, Hans, to Siemens Aktiengesellschaft. Broad band coupling switch arrangement with gated power supply. 4,639,613, 1-27-87, Cl. 307-241.000.

Bauck, Jerald L., to Motorola Inc. Feature extractor for quasi-periodic signals. 4,678,987, 7-7-87, Cl. 324-77.00R.

Bauck, Jerald L., to Motorola, Inc. Method for determining the direction of a radiation source. 4,687,923, 8-18-87, Cl. 250-203.00R.

Bauck, Randall C.; Radman, Anton J.; Thornock, Roy; Freeman, Robert D.; Kleczkowski, Peter; Losee, Paul D.; and Lyon, Michael, to Iomega Corporation. Magnetic disk cartridge having improved locking mechanism and ringing pad. 4,658,318, 4-14-87, Cl. 360-133.000.

Baucom, D. Michael; and Gomez, Sergio V. Microprocessor based level and angle finder. 4,716,534, 12-29-87, Cl. 364-559.000.

Baudelot, Francis E.: *See—*

Montanari, Gerard M.; Baudelot, Francis E.; and Costes, Michel L., 4,695,997, Cl. 370-13.000.

Baudequin, Francois; and Leclere, Patrick, to Electricite de France (Service National). Process and device for the decarbonation of minerals by fluidized bed calcination. 4,707,350, 11-17-87, Cl. 423-637.000.

Bauder, Albrecht: *See—*

Schiel, Christian; and Bauder, Albrecht, 4,639,990, Cl. 29-116.00R.

Bauder, Armin, to Audi AG. Oil sumps for internal combustion engines. 4,683,850, 8-4-87, Cl. 123-195.00C.

Bauder, Richard C.: *See—*

Morrell, Albert M.; Masterton, Walter D.; and Bauder, Richard C., 4,634,247, Cl. 354-1.000.

Baudisch, Hans; and Schultheis, Hans, to Daimler-Benz Aktiengesellschaft. Arrangement for diagonally shearing the end of a tube. 4,653,370, 3-31-87, Cl. 83-456.000.

Baudoin, Patrice, to Regie Nationale des Usines Renault. Control device of a continuous transmission. 4,676,766, 6-30-87, Cl. 474-1.000.

Baudot, Claude; and Contini, Vincent, to Constructions Metalliques Fillod. Prefabricated modular building element and a building comprising such elements. 4,644,708, 2-24-87, Cl. 52-79.900.

Baudrant, Annie; and Marty, Michel, to Societe pour l'Etude et la Fabrication de Circuits Integres Speciaux E.F.C.I.S. Integrated circuit device which includes a continous layer which consists of conducting portions which are of a silicide of a refractory metal and insulating portions which are of an oxide of the metal. 4,714,951, 12-22-87, Cl. 357-67.000.

Baudro, Thomas O., to Proto-Power Corporation. Radiation shield. 4,638,166, 1-20-87, Cl. 250-515.100.

Baudro, Thomas O., to Proto-Power Corporation. System and method for consolidating spent fuel rods. 4,659,536, 4-21-87, Cl. 376-261.000.

Baudro, Thomas O.; and Leonard, John S., to Proto-Power Corporation. Apparatus and method for consolidating spent fuel rods. 4,683,110, 7-28-87, Cl. 376-261.000.

Baudry, Hugues; Monneraye, Marc A.; and Morhaim, Claude, to U.S. Philips Corporation. Silk screen printing paste with lead glass which is to be fired in a non-oxidizing atmosphere. 4,636,257, 1-13-87, Cl. 106-19.000.

Baudry, Hugues, to U.S. Philips Corporation. Starting mixture for an insulating composition comprising a lead glass, silk-screening ink comprising such a mixture, and the use of said ink for the protection of hybrid microcircuits on ceramic substrates. 4,684,543, 8-4-87, Cl. 427-96.000.

Baudry, Hugues, to U.S. Philips Corporation. Electric device provided with a silk-screening dielectric coated conductive laminate. 4,699,827, 10-13-87, Cl. 428-630.000.

Baudry, Hugues: *See—*

Duchenois, Valere; Fouassier, Michele; and Baudry, Hugues, 4,684,846, Cl. 313-475.000.

Bauduin, Gerard; Boutevin, Bernard; Deiss, Willy-Jean; and Pietrasanta, Yves, to Cegedur Societe de Transformation de l'Aluminium Pechiney. Acrylic telomers with grafts which can be cross linked by light, their synthesis and their applications in coating metals. 4,638,018, 1-20-87, Cl. 522-103.000.

Bauduin, Serge: *See—*

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Bauer, Helmuth: *See*—

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Glemser, Oskar; Buss, Dieter H.; and Bauer, Jurgen, 4,696,875, Cl. 429-206.000.

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Seckinger, Erich, 4,658,105, Cl. 200-43.050.

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Bauer, Karl, to Barmag AG. Yarn heating apparatus and method. 4,680,872, 7-21-87, Cl. 34-23.000.

Bauer, Karl: *See*—

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Bauer, Karl-Heinz; and Moret, Reinhold, to Preh Elektrofeinmechanische Werke Jakob Preh, Nachf. GmbH & Co. Ventilation control unit for motor vehicles. 4,656,926, 4-14-87, Cl. 98-2.000.

Bauer, Karl-Heinz; Rutterschmidt, Franz; and Spiller, Gerhard, to Preh Elektrofeinmechanische Werke, Jakob Preh, Nachf. GmbH & Co. Switch with speed control. 4,660,019, 4-21-87, Cl. 338-179.000.

Bauer, Karl-Heinz; and Fick, Heinz, to Preh Elektrofeinmechanische Werke Jakob Preh Nachf. GmbH & Co. Push-pull cable mounting assembly. 4,685,350, 8-11-87, Cl. 74-501.00R.

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Harder, Josef, 4,662,289, Cl. 109-49.500.

Bauer, Keith: *See*—

Ben-Bassat, Arie; Dorin, Glenn; Bauer, Keith; and Lin, Le 4,656,132, Cl. 435-68.000.

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Bauer, Kurt H. Process for the production of readily soluble aminosalicylic acid preparations. 4,699,902, 10-13-87, Cl. 514-161.00

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Bauer, Ludwig; Schneider, Erwin; Rensch, Walter; and Weinhold, Helmut, to Cambridge Instruments GmbH. Guide device for guiding a movable part of an apparatus relative to a fixed part of the appara tus. 4,702,464, 10-27-87, Cl. 269-55.000.

Bauer, Manfred, to U.S. Philips Corporation. Scatter radiation gri drive. 4,646,340, 2-24-87, Cl. 378-155.000.

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Baldamus, Haimo; Szerdahelyi, Ferenc; Hess, Peter; and Bau Manfred, 4,648,208, Cl. 49-502.000.

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Bauer, Paul E., to McDonnell Douglas Corporation. Transverse flo edge heat pipe. 4,671,348, 6-9-87, Cl. 165-41.000.

Bauer, Peter. Jet break-up device for spray nozzle application 4,662,568, 5-5-87, Cl. 239-589.100.

Bauer, Peter: *See*—

Petermann, Harald; and Bauer, Peter, 4,637,369, Cl. 125-15.00

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Bauer, Ralph; Khaund, Arup K.; Trischuk, Ronald W.; and Smith Joseph, to Norton Company. Aluminum oxide powders and proce 4,657,754, 4-14-87, Cl. 423-625.000.

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Bauer, Roland: *See*—

Gaedcke, Harald; Braun, Ruediger; and Bauer, Roland, 4,643,77 Cl. 106-304.000.

Ostertag, Werner; Wienand, Henning; and Bauer, Roland 4,702,775, Cl. 106-304.000.

Bauer, Rudolf: *See*—

Hoffmann, Gerhard; Bauer, Rudolf; Heilmann, Paul; and Sch mann, Erwin, 4,682,011, Cl. 219-390.000.

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Stockburger, Hermann; and Bauer, Siegfried, 4,649,265, C 235-380.000.

Stockburger, Hermann; and Bauer, Siegfried, 4,650,979, C 235-455.000.

Bauer, Sigrid, to Ciba-Geigy Corporation. Photopolymerizable coatin agent, a photopolymerizable material and its use. 4,693,961, 9-15-8 Cl. 430-325.000.

Bauer, Theodore J.; Herke, Donald P.; Bork, Edward A.; and Lawso William E., to Laser Machining, Inc. Apparatus for cutting multipl layers of fabric. 4,680,442, 7-14-87, Cl. 219-121.0LG.

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Aichert, Hans; Bauer, Volker; Feuerstein, Albert; and Rank Horst, 4,648,347, Cl. 118-720.000.

Bauer, Walter, to Agfa-Gevaert Aktiengesellschaft. X-ray sheet fil cassette for application to angular body parts. 4,637,043, 1-13-87, C 378-188.000.

Bauer, Walter; and Muller, Jurgen, to Agfa-Gevaert Aktiengesellschaft Device for producing photographic pictures with a plane film pla form. 4,676,618, 6-30-87, Cl. 354-76.000.

Bauer, Walter B.: *See*—

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Bauer, Willi: *See*—

Dassler, Armin A.; and Bauer, Willi, 4,633,600, Cl. 36-134.000

Dassler, Armin A.; and Bauer, Willi, 4,644,672, Cl. 36-134.000

Dassler, Armin A.; and Bauer, Willi, 4,648,187, Cl. 36-134.000

Bauer, William H.: *See*—

Marsh, John L.; Fraser, Edward C.; Rorden, Louis H.; and Bauer, William H., 4,646,831, Cl. 166-242.000.

Bauer, Wolfgang; Langer, Manfred; and Sperling, Winfried, to Cassella Aktiengesellschaft. Process for the preparation of diaryl sulphides. 4,686,303, 8-11-87, Cl. 560-18.000.

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Artzt, Peter; Rottmayr, Hans; and Bauer, Wolfgang, 4,679,388, Cl. 57-263.000.

Artzt, Peter; Rottmayr, Hans; and Bauer, Wolfgang, 4,697,411, Cl. 57-401.000.

Bauerle, Hans; Peste, Hansgeorg; and Pohlner, Erwin. Process for increasing the fatigue strength of components with different shapes or designs. 4,682,489, 7-28-87, Cl. 72-460.000.

Bauernfeind, Robert A.; and Carroll, C. Braley. Duck decoy deployer. 4,660,313, 4-28-87, Cl. 43-3.000.

Baugh, Benton F. Underwater connection apparatus. 4,641,998, 2-10-87, Cl. 405-169.000.

Baugh, Benton F.; and Panicker, Narayana N., to Mobil Oil Corporation. Marine riser structural core connector. 4,647,254, 3-3-87, Cl. 405-169.000.

Baugh, Benton F. Subsea tubing hanger with multiple vertical bores and concentric seals. 4,651,831, 3-24-87, Cl. 166-344.000.

Baugh, Benton F.; and Panicker, Narayana N., to Mobil Oil Corporation. Subsea flowline connector. 4,661,016, 4-28-87, Cl. 405-169.000.

Baugh, Benton F.; and Panicker, Narayana N., to Mobil Oil Corporation. Marine production riser and method for installing same. 4,673,313, 6-16-87, Cl. 405-195.000.

Baugh, Benton F.; and Panicker, Narayana N., to Mobil Oil Corporation. Anti-rotation tubular connection for flowlines or the like. 4,693,498, 9-15-87, Cl. 285-39.000.

Baugh, Charles R., to Racal Data Communications Inc. Method and apparatus for color decomposition of video signals. 4,652,906, 3-24-87, Cl. 358-22.000.

Baugh, Clarence L., to BioGenesis Laboratories, Inc. Animal repellent and method of manufacture of same. 4,656,038, 4-7-87, Cl. 424-164.000.

Baugh, Hollis A., to Vetco Offshore, Inc. Underwater connector. 4,648,629, 3-10-87, Cl. 285-26.000.

Baugh, J. Dan; Shields, Kent; Yam, Yoke L.; and Wells, Larry, to Cummins Engine Company, Inc. Coolant flow orificing head gasket. 4,653,761, 3-31-87, Cl. 277-235.00B.

Baugh, James D.: *See*—

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Baugh, John L.; and Foster, Joe, to Hughes Tool Company. Slip gripping mechanism. 4,711,326, 12-8-87, Cl. 188-67.000.

Baugh, John L.: *See*—

Smith, Sidney K., Jr.; and Baugh, John L., 4,657,077, Cl. 166-115.000.

Baugh, William D.: *See*—

Hanes, Ronnie M.; and Baugh, William D., 4,658,069, Cl. 568-603.000.

Hanes, Ronnie M.; and Baugh, William D., 4,675,435, Cl. 560-119.000.

Baughman, David R.: *See*—

Huff, Ray V.; Axen, Steven G.; and Baughman, David R., 4,634,137, Cl. 299-4.000.

Baughman, Davis L. Method and apparatus for imparting a simple contour to a workpiece. 4,694,672, 9-22-87, Cl. 72-53.000.

Baughman, James S., to Walbro Corporation. Capacitance-type material level indicator. 4,676,101, 6-30-87, Cl. 73-304.00C.

Baughman, R. Henry: *See*—

Elsenbaumer, Ronald L.; Ivory, Dawn M.; Iqbal, Zafar; and Baughman, R. Henry, 4,661,383, Cl. 427-302.000.

Baughman, Ray H.; Elsenbaumer, Ronald L.; Iqbal, Zafar; Miller, Granville G.; and Eckhardt, Helmut, to Allied Corporation. Environmental indicator device and method. 4,646,066, 2-24-87, Cl. 340-540.000.

Baughman, Ray H.: *See*—

Preziosi, Anthony F.; Patel, Gordhanbhai N.; Denkewalter, Robert G.; and Baughman, Ray H., 4,646,674, Cl. 116-216.000.

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Baugus, Gary; and Oliff, James R., to Mead Corporation, The. Multipack carton with automatic panel positioning tabs. 4,706,814, 11-17-87, Cl. 206-427.000.

Baum, Allen: *See*—

Worley, William S., Jr.; Bryg, William R.; and Baum, Allen, 4,713,755, Cl. 364-200.000.

Baum, Allen J.: *See*—

Draper, Robert; Lorentz, Donald G.; Baum, Allen J.; and Economy, George, 4,637,346, Cl. 122-4.00A.

Baum, Bernard: *See*—

Abecassis, Jacky R.; Baum, Bernard; Favier, Andre-Marcel; and Levert, Patrice C., 4,703,717, Cl. 118-698.000.

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Baum, Elliott W., to Berco Industries, Inc. Table top support. 4,643,105, 2-17-87, Cl. 108-150.000.

Baum, Gerald A.: *See*—

Chacko, Varkki P.; DeStio, Paul; and Baum, Gerald A., 4,677,150, Cl. 524-449.000.

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Baum, Gilbert. Surgical apparatus. 4,672,965, 6-16-87, Cl. 128-305.000.

Baum, Jonathan S.; and Chen, Tsong M., to FMC Corporation. Plant growth and development modification using benzoxazole derivatives. 4,659,360, 4-21-87, Cl. 71-88.000.

Baum, Lloyd. Retention system for dental prosthesis. 4,681,542, 7-21-87, Cl. 433-172.000.

Baum, Marcel, to Dragerwerk Aktiengesellschaft. Ventilation system having true valve control for controlling ventilation pressures. 4,637,386, 1-20-87, Cl. 128-204.210.

Baum, Peter N.: *See*—

Meslener, George J.; and Baum, Peter N., 4,647,792, Cl. 307-270.000.

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Baum, Samuel; and Yaeger, John R., to Raychem Corporation. Low loss circuit breaker and actuator mechanism therefor. 4,713,643, 12-15-87, Cl. 337-140.000.

Baum, Walter: *See*—

Schneider, Arthur; Baum, Walter; and Zebl, Hermann, 4,686,530, Cl. 340-870.310.

Bauman, Bernard D.; and Mehta, Rajendra K., to Air Products and Chemicals, Inc. Quality control method for containers. 4,659,674, 4-21-87, Cl. 436-5.000.

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Bauman, Douglas A.: *See*—

Smith, John R.; Kenny, Thomas J.; Graham, Kingsley F.; Neuner, James A.; Bauman, Douglas A.; Thompson, Timothy F.; Wassel, William W.; Rao, Dhulipala M.; and Theriault, David G., 4,642,636, Cl. 340-870.040.

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Bauman, Robert E.; Chandrasekaran, S. Kumar; Lin, Shaow B.; Bowman, Lyle M.; and Harvey, Thomas B., III, to Sola U.S.A. Inc. Surface-treated contact lens and method of producing. 4,666,249, 5-19-87, Cl. 351-160.00H.

Bauman, Therese M.; and Freiberg, Alan L., to Dow Corning Corporation. Method of producing a silicone water-based elastomer. 4,634,733, 1-6-87, Cl. 524-859.000.

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Baumann, Willi; and Baumann, Hans-Peter, 4,649,982, Cl. 160-172.000.

Baumann, Albert F.: *See*—

Holden, Thomas F.; and Baumann, Albert F., 4,677,074, Cl. 423-541.00A.

Baumann, Arthur N., to International Minerals & Chemical Corp. Separation of dissolved substances from wet process phosphoric acid. 4,640,828, 2-3-87, Cl. 423-321.00R.

Baumann, Dieter: *See*—

Rabener, Claus W.; Horner, Hans-Peter; and Baumann, Dieter, 4,716,185, Cl. 523-456.000.

Baumann, Edwin: *See*—

Horn, Peter; Baumann, Edwin; and Marx, Matthias, 4,714,718, Cl. 521-134.000.

Mueller, Gerhard; Marx, Matthias; Jarre, Wolfgang; Baumann, Edwin; and Buethe, Ingolf, 4,668,708, Cl. 521-159.000.

Baumann, Hanns U., to Sharon K. Baumann Trust. Omniform building system. 4,644,709, 2-24-87, Cl. 52-79.140.

Baumann, Hans, to Grob & Co. Aktiengesellschaft. Device to alter the distance between the frame stave of a heald frame and the heald carrying rod held by rod holders on the frame stave. 4,657,052, 4-14-87, Cl. 139-92.000.

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Baumann, Hans-Georg, to Jenoptik Jena GmbH. Front lens group for immersion microscope objective in BD versions of high aperture. 4,634,234, 1-6-87, Cl. 350-414.000.

Baumann, Hans-Peter; and Grossmann, Marcel, to Sandoz Ltd. Binding agent aqueous dispersions having improved coagulation properties. 4,657,957, 4-14-87, Cl. 524-245.000.

Baumann, Hans-Peter: *See*—

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Baumann, Hans-Richard: *See*—

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Baumann, Horst: *See*—

Schmid, Karl; Stein, Werner; and Baumann, Horst, 4,671,900, Cl. 260-400.000.

Baumann, James A.: *See*—

Glickman, Myron; and Baumann, James A., 4,657,150, Cl. 212-218.000.

Baumann, John A.: *See*—

Brock, David G.; and Baumann, John A., 4,649,024, Cl. 427-82.000.

Marek, Henry S.; Michel, Christian G.; Baumann, John A.; and Kuck, Mark A., 4,670,241, Cl. 423-322.000.

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Baumann, Karl-Heinz; Schick, Gerald; Kassing, Lothar; Bossenmaier, Alban; and Brambilla, Luigi, to Daimler-Benz Aktiengesellschaft. Device for controlling a roll bar serving as a safety device for the occupants of a motor vehicle. 4,715,468, 12-29-87, Cl. 180-271.000.

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Bliesener, Jens-Uwe; Baumann, Manfred; Hoffmann, Werner; Sauter, Hubert; and Jung, Johann, 4,671,816, Cl. 71-88.000.

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Baumann, Peter H. Electric-powered spring return actuating device. 4,677,355, 6-30-87, Cl. 318-160.000.

Baumann, Theodor; and Schreyegg, Otmar, to Philip Holzman Aktiengesellschaft. Segmental tunnel lining consisting of reinforced concrete tubbings. 4,662,773, 5-5-87, Cl. 405-152.000.

Baumann, Todd D.: *See*—

Silvy, Dorrel R.; Baumann, Todd D.; and Bracht, Roger R., 4,700,056, Cl. 250-201.000.

Baumann, Willi; and Baumann, Hans-Peter, to Baumann AG Rollandenfabrik. Lift-safety for venetian blinds. 4,649,982, 3-17-87, Cl. 160-172.000.

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Scott, Ray V., Jr.; Baumann, William M.; and House, David W., 4,709,003, Cl. 528-60.000.

Baumberg, Iosif. Pulse rate monitor. 4,667,681, 5-26-87, Cl. 128-689.000.

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Baumberger, Peter, to Sulzer Brothers Limited. Heat exchanger system. 4,700,772, 10-20-87, Cl. 165-103.000.

Baumberger, Werner. Construction element. 4,641,470, 2-10-87, Cl. 52-309.170.

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Hixenbaugh, Dennis L.; and Leich, Alice, 4,676,107, Cl. 73-706.000.

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Young, Chung C.; Coleman, Robert L.; Sullivan, Sheila M.; Grimes, John F.; Baumeister, Ferdnand; MacIndoe, Robert; Catalano, Lou; Coppola, Pat; Spaziani, Fred; Rodomista, Guy; and Fowler, James E., 4,686,479, Cl. 324-439.000.

Baumeister, Hans P., to Eastman Kodak Company. Video apparatus for selectively processing either composite or component color video signals. 4,660,073, 4-21-87, Cl. 358-21.00R.

Baumeister, Hans P., to Eastman Kodak Company. Simultaneous exposure/focus control in a video camera using a solid state image sensor. 4,684,995, 8-4-87, Cl. 358-227.000.

Baumeister, Hans-Peter, to Eastman Kodak Company. Disk container supporting a detachable memory. 4,652,939, 3-24-87, Cl. 358-342.000.

Baumeister, Hans-Peter; Greenwald, Roger J.; and Schauffele, Carl N., to Eastman Kodak Company. Video disk apparatus providing organized picture playback. 4,675,755, 6-23-87, Cl. 360-35.100.

Baumeister, Hans-Peter, to Eastman Kodak Company. Video projector with optical feedback. 4,684,996, 8-4-87, Cl. 358-231.000.

Baumeister, Herbert: *See*—

Gahlau, Heinemann; Wittenmayer, Klaus; Launner, Manfred; and Baumeister, Herbert, 4,655,496, Cl. 296-39.00A.

Baumer di Mario Gambetti: *See*—

Gambetti, Mario, 4,646,908, Cl. 198-422.000.

Gambetti, Mario, 4,706,444, Cl. 53-557.000.

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Baumers, Hans; Lietzke, Heinz; and Schulte, Winfred, to Losenhausen Maschinenbau AG & Co. Kommanditgesellschaft. Steering axle arrangement for a wheel body of a vehicle. 4,638,877, 1-27-87, Cl. 180-21.000.

Baumert, Heinz; Schmitt-Maass, Nikolaus; and Karb, Erich, to Daimler-Benz Aktiengesellschaft. Belt lock arranged recessed in a pocket of a seat part. 4,687,254, 8-18-87, Cl. 297-481.000.

Baumert, Werner: *See*—

Pszolla, Hartmut; Baumert, Werner; and Lorenz-Meyer, Wolfgang, 4,658,635, Cl. 73-147.000.

Baumgardner, Edward W. Container for sports equipment. 4,643,302, 2-17-87, Cl. 206-315.100.

Baumgardner, Stephen D.: *See*—

Andreasen, David A.; Armstrong, John H.; Buggert, Jerrold E.; Desai, Harshad K.; Baumgardner, Stephen D.; Buckmaster, Kenneth E.; and Hussain, Zubair, 4,695,946, Cl. 364-200.000.

Baumgardner, Terry A.; Krouse, Jere L.; and Wild, Alan G., to Robbins & Myers, Inc. Sealing apparatus for a gear ball joint. 4,639,200, 1-27-87, Cl. 418-48.000.

Baumgart, Herbert P. Security device for electrical plug. 4,648, 3-10-87, Cl. 339-37.000.

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Baumgart, Rudolf; Martin, Manfred; Low, Lothar; and Scheven, G ter, to Akzo N.V. Method of and device for producing bundle hollow fibers. 4,681,720, 7-21-87, Cl. 264-150.000.

Baumgarten, John M., to Acco Babcock Inc. Constant force cable adjusting device. 4,682,760, 7-28-87, Cl. 254-199.000.

Baumgarten, Jorg; Frommer, Werner; Mann, Theo; Pascik, Imre; R Hans-Georg; and Schapel, Dietmar, to Bayer Aktiengesellsch Immobilization of cells in polyurethane hydrogel. 4,634,672, 1-6 Cl. 435-182.000.

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Baumgarten, Rolf, to Heinrich Baumgarten KG. Hollow sheet me utensil handle fastening assembly. 4,680,829, 7-21-87, Cl. 16-114.0

Baumgartl, Walter A.: *See*—

Baines, Alfred H. P., deceased; Campetti, Gianfranco; Baumga Walter A.; and Nusse, Klaus J. R., 4,644,312, Cl. 335-236.0

Baumgartner, Alan S.; Moore, Patrick D.; and VanDahm, Richard to Milliken Research Corporation. Colored thermoplastic resin co position containing a colorant having an alkylenoxy-substitu chromophore group. 4,640,690, 2-3-87, Cl. 8-506.000.

Baumgartner, Armin: *See*—

Dorn, Raimund; Baumgartner, Armin; and Guth-Nolle, An 4,661,136, Cl. 65-18.100.

Baumgartner, Gary J.; Jandrasi, Frank J.; and Post, Arthur J., Jr. Triten Corporation. Coke cooler. 4,667,731, 5-26-87, Cl. 165-88.0

Baumgartner, George C. Surgical implantation method and appara 4,700,692, 10-20-87, Cl. 128-1.200.

Baumgartner, Gunter: *See*—

Morgan, Annis R., Jr.; Mehlan, Bernd; Gress, Josef; Willifo Hugh S.; and Baumgartner, Gunter, 4,676,074, Cl. 62-277.00

Baumgartner, Hans-Ulrich; Calderara, Reto; and Sonderegger, H Conrad, to Kristal Instrumente AG. Piezoelectric transducer for forces. 4,701,660, 10-20-87, Cl. 310-338.000.

Baumgartner, Hans-Ulrich: *See*—

Sonderegger, Hans-Conrad; Calderara, Reto; Wenger, Alfred; Baumgartner, Hans-Ulrich, 4,691,575, Cl. 73-756.000.

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Stalder, Herbert; Baumgartner, Josef; and Wurmli, Ar 4,640,089, Cl. 57-401.000.

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Baumgartner, Kenneth A.; and Pickering, William, to Caterpillar In trial Inc. Apparatus and method for protecting a motor cir circuit. 4,691,149, 9-1-87, Cl. 318-331.000.

Baumgartner, Richard A.; Dukes, John N.; and Fisher, George A Hewlett-Packard Company. Amplitude insensitive delay 4,638,191, 1-20-87, Cl. 307-602.000.

Baumgartner, Richard A.; Dukes, John N.; and Fisher, George A Hewlett-Packard Company. Testing and calibrating of ampli insensitive delay lines. 4,703,251, 10-27-87, Cl. 324-57.00R.

Baumgartner, Richard A.: *See*—

Dukes, John N.; and Baumgartner, Richard A., 4,658,225 333-166.000.

Baumgen, Heinz: *See*—

Henning, Wolfgang; Meckel, Walter; Beck, Ulrich; Baum Heinz; and Konig, Joachim, 4,670,100, Cl. 162-135.000.

Probst, Joachim; Beck, Ulrich; and Baumgen, Heinz, 4,659,43 162-168.200.

Baumker, Andrew J., Jr. Building truss clamp devices. 4,704 11-10-87, Cl. 52-127.200.

Baur, Bruce K.; and Meigs, Gordon W., to Tektronix, Inc. P amplifiers for driving inductive loads. 4,698,559, 10-6-87 315-408.000.

Baur, Bruce K., to Tektronix, Inc. Circuit arrangement for protect CRT and associated circuitry from damage due to arcing. 4,70 11-10-87, Cl. 361-56.000.

Baur, Guenter: *See*—

Etzbach, Karl-Heinz; Neumann, Peter; Dust, Matthias; Ring Helmut; Schmidt, Hans-Werner; Baur, Guenter; Windsc Friedrich; and Kiefer, Rudolf, 4,702,945, Cl. 428-1.000.

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Kruger, Michael; and Baur, Josef, 4,663,585, Cl. 324-54.000.

Baur, Karl; Haussinger, Peter; Fruhstorfer, Ludwig; and Ne Hans-Jurgen, to Linde Aktiengesellschaft. Settling of sulfur in s removal process. 4,666,695, 5-19-87, Cl. 423-571.000.

Baur, Karl: *See*—

Becker, Hans; Heisel, Michael; and Baur, Karl, 4,664,70 423-573.00R.

Baur, Karl G.; Diehl, Volker; Stops, Peter; Hellbach, Hans; and ner, Erwin, to BASF Aktiengesellschaft. Preparation of nic mide. 4,681,946, 7-21-87, Cl. 546-317.000.

Baur, Manfred, to Albert Schrem Werkzeugfabrik GmbH. Press clamp for securing tools or workpieces. 4,697,966, 10-6-8 409-232.000.

Baur Pruf-und Messtechnik K.G.: *See*—

Kruger, Michael; and Baur, Josef, 4,663,585, Cl. 324-54.000.

Baur, Reinhold: *See*—

Lehner, August; Kohl, Albert; Balz, Werner; Sommermann drich; Velic, Milan; Grau, Werner; and Baur, Rei 4,647,513, Cl. 428-694.000.

Baur, Richard; Oppenlaender, Knut; and Barthold, Klaus, to BASF Aktiengesellschaft. Crosslinked oxyalkylated polyalkylenepolyamines. 4,705,834, 11-10-87, Cl. 525-540.000.

Baur, Roland: *See*—

Biondetti, Mario; and Baur, Roland, 4,686,005, Cl. 162-60.000.

Baur, Rolf; and Gruber, Bernhard, to Anton Steinecker Maschinenfabrik GmbH. Rotary disc filter element. 4,708,797, 11-24-87, Cl. 210-330.000.

Baur, Walter: *See*—

Kammler, Roman; and Baur, Walter, 4,674,581, Cl. 177-25.000.

Baurand, Gilles; Fouret, Rene; and Rundsztuk, Marek, to La Telemecanique Electrique. Inductive sensor for current measurement. 4,709,205, 11-24-87, Cl. 324-127.000.

Baureis, Hans-Paul: *See*—

Bickle, Wolfgang; Braus, Jurgen; and Baureis, Hans-Paul, 4,666,787, Cl. 428-550.000.

Baurle, Herbert F.; and Masak, Raymond J., to Hazeltine Corporation. Beamforming/null-steering adaptive array. 4,651,155, 3-17-87, Cl. 342-378.000.

Baurmeister, Ulrich; Brodowski, Walter; Diamantoglou, Michael; Dunweg, Gustav; Henne, Werner; Pelger, Michael; and Schulze, Helmut, to Akzo N.V. Dialysis membrane of modified cellulose with improved biocompatibility. 4,668,396, 5-26-87, Cl. 210-500.290.

Baurschmidt, Peter, to Carl-Zeiss-Stiftung. Measuring microscope arrangement for measuring thickness and line width of an object. 4,674,883, 6-23-87, Cl. 356-381.000.

Baus, Heinz G. Massaging and showering assembly. 4,651,720, 3-24-87, Cl. 128-38.000.

Baus, Heinz G. Shower partition. 4,653,127, 3-31-87, Cl. 4-610.000.

Baus, Heinz G. Method for processing and applying a protective foil. 4,707,207, 11-17-87, Cl. 156-252.000.

Baus, Heinz G. Coupling assembly for joining two profiled rails. 4,714,367, 12-22-87, Cl. 403-104.000.

Bausano & Figli S.p.A.: *See*—

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Bausch & Lomb Incorporated: *See*—

Bawa, Rajan, 4,668,506, Cl. 424-429.000.

Bawa, Rajan, 4,702,574, Cl. 351-162.000.

Bawa, Rajan; and Deichert, William G., 4,713,244, Cl. 424-429.000.

Braun, Alan J.; Smith, Lawrence M.; and Wildman, Kelvin H., 4,701,597, Cl. 219-521.000.

Chromecek, Richard C.; Ogunbiyi, Lai; Riedhammer, Thomas M.; and Smith, Francis X., 4,655,957, Cl. 252-174.230.

Clark, James A.; and Dobner, Michael H., 4,684,225, Cl. 350-518.000.

Clark, James A.; and Emmel, Henry J., 4,690,519, Cl. 350-515.000.

Clark, James A., 4,704,013, Cl. 350-532.000.

Cook, William H.; Deichert, William G.; Wrue, Richard J.; and Westfall, Norman R., 4,701,288, Cl. 264-1.400.

Council, Buford W., Jr., 4,680,998, Cl. 82-1.00C.

Dobner, Michael H.; and Edwards, Evan A., 4,685,648, Cl. 248-572.000.

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Friends, Gary D.; Melpolder, John B.; Kunzler, Jay F.; and Park, Joon S., 4,652,622, Cl. 526-279.000.

Friends, Gary D.; Chromecek, Richard C.; and Yourd, Raymond A., III, 4,663,409, Cl. 526-242.000.

Krewalk, John J.; and Silverberg, Eric C., 4,682,091, Cl. 318-685.000.

Martino, Ronald J., 4,710,636, Cl. 250-467.100.

Neefe, Charles W., 4,701,038, Cl. 351-162.000.

Ogunbiyi, Lai; and Smith, Francis X., 4,690,773, Cl. 252-174.120.

Shawcross, Alfred L.; Stevens, Donn E.; and Jones, Robert E., 4,690,520, Cl. 350-517.000.

Bautista, Bruce Q.: *See*—

Boomgaarden, Jonathan C.; Bautista, Bruce Q.; Davis, Charles R.; and Frank, Steven R., 4,651,337, Cl. 378-177.000.

Bava, Gianfranco; and Enrico, Franco, to Ing. C. Olivetti & C., S.p.A. Ink jet electroformed nozzle. 4,651,174, 3-17-87, Cl. 346-140.00R.

Bavaro, Vito: *See*—

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Bavaveas, Tristan, to Eparco. Holder for a toilet cleaning product associated with an air deodorizer. 4,709,425, 12-1-87, Cl. 4-228.000.

Baviere, Marc; Moulu, Jean-Claude; Paal, Tibor; Tiszai, Gyorgy; Gaal, Gyorgyi; Schmidt, Laszlo; and Gesztesi, Gyula, to Institut Francais du Petrole; and Magyar Szenhidrogenipari Kutato-Fejleszto Intezet. Enhanced oil recovery process by injecting a micellar solution of surfactants having a solubility gradient in water. 4,648,451, 3-10-87, Cl. 166-273.000.

Baviere, Marc; and Durif Varambon, Bruno, to Institut Francais du Petrole. Micellar systems containing N-acyl N-alkyl α-amino-carboxylic compounds, particularly useful in enhanced hydrocarbon recovery. 4,686,053, 8-11-87, Cl. 252-8.554.

Bavis, Edward F. Modular conveyor system for drive-in banks and the like. 4,645,035, 2-24-87, Cl. 186-37.000.

Bawa, Mohendra S.: *See*—

Witter, David E.; and Bawa, Mohendra S., 4,710,260, Cl. 156-605.000.

Bawa, Rajan, to Bausch & Lomb Incorporated. Sustained-release formulation containing and amino acid polymer. 4,668,506, 5-26-87, Cl. 424-429.000.

Bawa, Rajan, to Bausch & Lomb Incorporated. Contact lenses having fluorescent colorants and apparatus for making such lenses. 4,702,574, 10-27-87, Cl. 351-162.000.

Bawa, Rajan; and Deichert, William G., to Bausch & Lomb Incorporated. Sustained-release formulation containing an amino acid polymer with a lower alkyl (C_1-C_4) polar solvent. 4,713,244, 12-15-87, Cl. 424-429.000.

Bawcutt, Anthony J.: *See*—

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Bawden, Alan: *See*—

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Bax, Anton M.; and May, Jonathan C., to Smiths Industries Public Limited Company. Controlling electrical phase connections to a three-phase device. 4,659,974, 4-21-87, Cl. 318-806.000.

Bax, Anton M., to Smiths Industries Public Limited Company. Reducing power consumption and monitoring synchronous running of three-phase electric motors. 4,683,413, 7-28-87, Cl. 318-779.000.

Bax, Anton M., to Smiths Industries Public Limited Company. AC controlled diode switch. 4,705,963, 11-10-87, Cl. 307-257.000.

Bax, Hanns-Jorg: *See*—

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Baxley, William H.; Weatherford, Marion H.; Wilfong, Harry B., Jr.; and Williams, Floyd B., to Sonoco Products Company. Bag pack. 4,676,378, 6-30-87, Cl. 206-554.000.

Baxter, Andrew J. G.; Dixon, John; Gould, Kenneth J.; and Tinker, Alan C., to Fisons plc. Calcium antagonist 2-fluoroalkyl-1,4-dihydropyridines. 4,686,217, 8-11-87, Cl. 514-210.000.

Baxter, Anthony G.; Bostock, Stephen B.; and Greenwood, David, to Imperial Chemical Industries PLC. Water-soluble copper phthalocyanine dyes free from cellulose reactive groups. 4,634,555, 1-6-87, Cl. 540-126.000.

Baxter, Anthony G. W.; Bostock, Stephen B.; and Greenwood, David, to Imperial Chemical Industries PLC. Water-soluble triazine black dyes free from cellulose reactive groups and suitable for use in inks. 4,703,113, 10-27-87, Cl. 534-796.000.

Baxter, Anthony G. W.; Bostock, Stephen B.; and Greenwood, David, to Imperial Chemical Industries PLC. Water-soluble triazine black dyes from cellulose reactive groups and suitable for use in inks. 4,705,528, 11-10-87, Cl. 8-641.000.

Baxter, Donald. Compass mechanism used in combination with handle or like element on the interior of an automobile type vehicle. 4,670,988, 6-9-87, Cl. 33-333.000.

Baxter, Gordon D.; and Axiuk, Oleg, to Northern Telecom Limited. Manufacture of elongate members of indefinite length. 4,659,424, 4-21-87, Cl. 156-51.000.

Baxter, Gordon D.; and Grant, James C., to Northern Telecom Limited. Method and apparatus for insulating electrical conductor. 4,708,837, 11-24-87, Cl. 264-40.400.

Baxter, Gordon D.; Grant, James C.; and Garner, John N., to Northern Telecom Limited. Method for coloring polymer-insulated wire. 4,708,887, 11-24-87, Cl. 427-118.000.

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Baxter, Gregory R.: *See*—

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Baxter, John D.; Miller, Walter L.; and Martial, Joseph A., to University of California, The Regents of the. Genes encoding bovine prolactin. 4,675,297, 6-23-87, Cl. 435-253.000.

Baxter, Kenneth F., to International Paint Public Limited Company. Marine anti-fouling paint. 4,675,051, 6-23-87, Cl. 106-16.000.

Baxter, Kenneth W. Compression system for microfiche files and the like. 4,699,277, 10-13-87, Cl. 211-51.000.

Baxter, Raymond D. Modular water conditioning apparatus. 4,693,820, 9-15-87, Cl. 210-232.000.

Baxter, Richard V., Jr.; Bourke, Robert F.; Ellingson, David R.; Paul, Terrance D.; and Layden, David L., to Best Power Technology, Inc. and Pensar Corporation. Method and apparatus for modulating inverter pulse width. 4,692,854, 9-8-87, Cl. 363-75.000.

Baxter, Stanton E. Furniture construction. 4,635,564, 1-13-87, Cl. 108-111.000.

Baxter, Tanya L.: *See*—

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Baxter Travenol Laboratories: *See*—

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Bellotti, Marc C.; and Schnell, William J., 4,655,753, Cl. 604-283.000.

Blackburn, George L.; Babayan, Vigen K.; Bistrian, Bruce; Moldawer, Lyle L.; and Cotter, Richard, 4,703,062, Cl. 514-552.000.

Bringham, Richard L.; Gordon, Lucas S.; and Mosch, Karl E., 4,698,207, Cl. 422-46.000.

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Cabernoch, James L., 4,657,151, Cl. 215-11.00E.
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Leigh, Harold G.; and Schachet, Eli, 4,711,637, Cl. 604-220.000.
Leonard, Ronald J.; and Johnson, Kenneth M., 4,690,758, Cl. 210-247.000.
Leonard, Ronald J., 4,715,953, Cl. 210-321.800.
Link, Wiliam T., 4,664,126, Cl. 128-681.000.
Link, William T., 4,651,747, Cl. 128-677.000.
Link, William T., 4,697,596, Cl. 128-681.000.
Link, William T., 4,699,151, Cl. 128-681.000.
Link, William T., 4,699,152, Cl. 128-681.000.
Link, William T., 4,712,563, Cl. 128-681.000.
Lynn, Kenneth M.; and Rollins, Richard, 4,673,397, Cl. 604-251.000.
Makaryk, Walter A.; Dudar, Thomas E.; and Zentz, Mary K., 4,698,061, Cl. 604-408.000.
Miripol, Jeffrey E.; Heaton, Andrew; and Kandler, Richard L., 4,704,352, Cl. 435-2.000.
Mittleman, Herbert, 4,639,019, Cl. 285-332.000.
Nelson, Deanna; and Rowe, Bruce, 4,701,443, Cl. 514-23.000.
Passafaro, James D., 4,651,741, Cl. 128-633.000.
Perry, Matthew J., 4,678,331, Cl. 356-246.000.
Posey, John, 4,710,157, Cl. 493-213.000.
Posey, John L.; and Schmidt, Josef, 4,708,045, Cl. 83-604.000.
Shafer, John C., 4,678,894, Cl. 235-375.000.
Shah, Dilip H.; and Kopp, Clinton, 4,707,268, Cl. 210-650.000.
Sheehan, Neil J.; Oppenlander, Jon E.; and Fleenor, Richard P., 4,679,446, Cl. 73-864.130.
Sias, Ralph M.; Hurley, Nancy J.; and Dalebout, Melvin W., 4,673,605, Cl. 428-120.000.
Thomas, William R., 4,663,164, Cl. 424-101.000.
Thorogood, Douglas E., 4,715,165, Cl. 53-469.000.
Tseng, Charles C.; and Lynn, Kenneth, 4,688,753, Cl. 251-7.000.
Turoff, Robert; Gokcen, Cem M.; and Zdeb, Brian, 4,655,355, Cl. 215-32.000.
Viitala, Daniel W., 4,643,713, Cl. 604-4.000.
Ward, James R., 4,707,389, Cl. 428-36.000.
Ward, Michael V.; and Cotter, Richard, 4,678,808, Cl. 514-560.000.
White, Creighton A., 4,699,830, Cl. 428-35.000.
White, Leonard A., 4,637,934, Cl. 426-117.000.
White, Leonard A., 4,640,424, Cl. 215-11.00R.
White, Leonard A.; and Carveth, Peter C., 4,711,359, Cl. 215-11.100.

Baxter, William R. S.: *See—*
Jones, Robert; Jones, Keith W.; and Baxter, William R. S., 4,694,690, Cl. 73-146.000.
Wood, John D.; Coles, Julian M.; and Baxter, William R. S., 4,676,237, Cl. 128-203.170.

Bay City Management Limited: *See—*
McEnery, Denis R., 4,669,690, Cl. 248-101.000.

Bay, Herbert; Widder, Rudi; and Eckert, Guenter, to BASF Aktiengesellschaft. Waterproofing leather and skins. 4,701,269, 10-20-87, Cl. 252-8.570.

Bay Mills Limited: *See—*
Porter, John F., 4,640,864, Cl. 428-334.000.

Bay Mills Limited, Midland Div.: *See—*
Shoesmith, Roy, 4,699,542, Cl. 404-82.000.

Bay, Otto. Arrangement including an inverter for feeding sheets of paper into an automatic zigzag folding machine. 4,705,496, 11-10-87, Cl. 493-320.000.

Bayat, John J. Sprinkler control system. 4,708,162, 11-24-87, Cl. 137-382.000.

*Bayer Aktiengesellschaft: *See—*
Alberts, Heinrich; Kussi, Siegfried; Grape, Wolfgang; and Schla Ottfried, 4,652,386, Cl. 252-49.600.
Alewelt, Wolfgang; Eisermann, Wolfgang; Meyer, Karl-Heinrich; Tresper, Erhard; and Ullrich, Martin, 4,639,507, Cl. 528-388.00
Anderheggen, Wolfgang; Hahn, Winand; Vogelsgesang, Roland; and Wagner, Wolfram, 4,688,590, Cl. 137-15.000.
Anderson, John; Homeyer, Bernhard; Kuhle, Engelbert; Scheinpflug, Hans; Zeck, Walter M.; and Simonet, Donald E., 4,656,16 Cl. 514-84.000.
Angerbauer, Rolf; Boberg, Michael; Metzger, Karl G.; and Zeiler, Hans-Joachim, 4,686,216, Cl. 514-202.000.
Angerbauer, Rolf, 4,709,023, Cl. 540-224.000.
Arndt, Michael; and Sehnem, Hans P., 4,713,490, Cl. 564-225.00
Asmussen, Erik; and Munksgaard, Christian, 4,698,376, C 523-115.000.
Bassner, Bernd; and Klauke, Erich, 4,703,121, Cl. 544-317.000.
Backer, Wolfgang; Wagner, Wolfram; Hahn, Gunther; and Miessen, Ralf, 4,701,980, Cl. 19-0.480.
Balle, Gerhard; Grogler, Gerhard; and Meckel, Walter, 4,704,44 Cl. 528-84.000.
Baumgarten, Jorg; Frommer, Werner; Mann, Theo; Pascik, Ingo; Rast, Hans-Georg; and Schapel, Dietmar, 4,634,672, C 435-182.000.
Baumgarten, Jorg; Frommer, Werner; Mann, Theo; Pascik, Ingo; Rast, Hans-Georg; and Schapel, Dietmar, 4,681,851, C 435-262.000.
Bayer, Michael, 4,688,703, Cl. 222-541.000.
Beck, Gunther; Reinecke, Paul; Paulus, Wilfried; and Schmidt, Hans-Georg, 4,698,357, Cl. 514-370.000.
Beck, Manfred; and Nentwig, Wolfgang, 4,686,263, C 525-245.000.
Beitzke, Bernhard; and Blank, Heinz U., 4,668,788, Cl. 544-319.00
Bender, Wolfgang; Mrotzek, Dieter; Koglin, Bernd; and Steiner, Karl-Heinz, 4,714,456, Cl. 494-36.000.
Benz, Gunter; Metzger, Karl G.; Pfitzner, Jorg; Schmidt, Delf; and Zeiler, Hans-Joachim, 4,670,542, Cl. 530-331.000.
Berneth, Horst; and Brack, Alfred, 4,695,633, Cl. 544-286.000.
Binsack, Rudolf; Kohler, Karl-Heinz; Grigo, Ulrich; Morbitzer, Leo; Bottenbruch, Ludwig; and Heitz, Walter, 4,686,262, C 525-177.000.
Bischoff, Erwin; Muller, Hartwig; Salcher, Olga; Berschauer, Friedrich; Scheer, Martin; de Jong, Anno; and Frobel, Klaus, 4,670,260, Cl. 424-121.000.
Blunck, Martin; Claussen, Uwe; Krock, Friedrich W.; and Neff, Rutger, 4,689,171, Cl. 252-299.100.
Bockmann, Klaus; Jager, Gerhard; Brandes, Wilhelm; and Reinecke, Paul, 4,650,809, Cl. 514-383.000.
Boden, Heinrich; and Schneider, Walter, 4,714,579, C 264-328.600.
Boshagen, Horst; Stoltefuss, Jurgen; Berschauer, Friedrich; de Jong, Anno; and Scheer, Martin, 4,670,423, Cl. 514-63.000.
Brauer, Wolfgang; Willenberg, Bernd; Korte, Siegfried; and Suling, Carlhans, 4,643,946, Cl. 428-372.000.
Brockmann, Rolf; Casper, Clemens; Damsky, Walter; Lipper, Axel; and Sajben, Johannes O., 4,637,857, Cl. 159-47.100.
Brunn, Horst; Schulten, Gerd-Hermann; and Fuhr, Werner, 4,701,221, Cl. 106-304.000.
Buchel, Karl H.; Kraatz, Udo; Stetter, Jorg; Reinecke, Paul; and Brandes, Wilhelm, 4,659,723, Cl. 514-341.000.
Buding, Hartmuth; Szentivanyi, Zsolt; and Thormer, Joachim, 4,647,627, Cl. 525-234.000.
Buding, Hartmuth; Konigshofen, Heinrich; Szentivanyi, Zsolt; and Thormer, Joachim, 4,675,248, Cl. 428-398.000.
Burow, Wilfried; Printzen, Helmut; Brunn, Horst; and Nollen, Klaus, 4,698,100, Cl. 106-304.000.
Buysch, Hans-Josef; Szentivanyi, Zsolt; and Witte, Josef, 4,654,3 Cl. 524-217.000.
Dahm, Manfred; Jabs, Gert; and Wawra, Georg, 4,668,580, C 428-402.210.
Darsow, Gerhard; and Biedermann, Wolfgang, 4,684,720, C 536-124.000.
Dedden, Hubert; Forster, Dietrich; Rost, Horst; and Zembrod, Alfred, 4,665,036, Cl. 435-301.000.
Dicke, Hans-Rudolf; Bottenbruch, Ludwig; Wedemeyer, Karlfried; Paetz, Klaus-Christian; and El Sayed, Aziz, 4,701,515, C 528-176.000.
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,645,528, Cl. 71-90.000.
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; and Roy, Wolfgang, 4,647,665, Cl. 544-182.000.
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; and Roy, Wolfgang, 4,658,027, Cl. 544-321.000.
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel

Hans-Jochim; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,659,364, Cl. 71-92.000.

Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,666,505, Cl. 71-92.000.

Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,680,052, Cl. 71-91.000.

Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,704,158, Cl. 71-92.000.

Dietrich, Manfred; Konig, Klaus; Hettel, Hans; Seifert, Peter; and Vehlewald, Peter, 4,668,734, Cl. 524-714.000.

Eckhardt, Volker; Dicke, Hans-Rudolf; Paetz, Klaus-Christian; and El Sayed, Aziz, 4,667,011, Cl. 528-128.000.

Egerer, Peter; Crueger, Wulf; and Golker, Christian, 4,681,843, Cl. 435-41.000.

Eichenauer, Herbert; and Ott, Karl-Heinz, 4,647,652, Cl. 528-486.000.

Eichenauer, Herbert; Doring, Joachim; Ott, Karl-Heinz; and Bottenbruch, Ludwig, 4,652,614, Cl. 525-71.000.

Eichenauer, Herbert; Zabrocki, Karl; Doring, Joachim; Ott, Karl-Heinz; and Bottenbruch, Ludwig, 4,668,737, Cl. 525-73.000.

Eichenauer, Herbert; Lindner, Christian; Ott, Karl-Heinz; Orth, Peter; and Hocker, Hartwig, 4,699,967, Cl. 528-29.000.

Elbe, Hans-Ludwig; and Holmwood, Graham, 4,713,456, Cl. 544-335.000.

Engbert, Theodor; Hammen, Gunter; Knofel, Hartmut; and Konig, Klaus, 4,692,550, Cl. 560-345.000.

Engbert, Theodor; Knofel, Hartmut; and Wegener, Gerhard, 4,698,424, Cl. 544-222.000.

Fauss, Rudolf; and Riebel, Hans-Jochem, 4,659,820, Cl. 544-194.000.

Fauss, Rudolf; and Riebel, Hans-Jochem, 4,659,821, Cl. 544-194.000.

Fauss, Rudolf; Lantzsch, Reinhard; Findeisen, Kurt; Jager, Gerhard; Hammann, Ingeborg; Becker, Benedikt; and Homeyer, Bernhard, 4,698,333, Cl. 514-63.000.

Fest, Christa; Brandes, Wilhelm; Hanssler, Gerd; and Reinecke, Paul, 4,716,176, Cl. 514-477.000.

Fiedler, Paul; Braden, Rudolf; and Buding, Hartmuth, 4,673,757, Cl. 558-431.000.

Fischer, Wolfgang; Klein, Gerhard; Hombach, Rudolph; and Knaege, Wilfried, 4,694,043, Cl. 525-127.000.

Forster, Heinz; Hofer, Wolfgang; Mues, Volker; Eue, Ludwig; and Schmidt, Robert R., 4,645,525, Cl. 71-88.000.

Forster, Heinz; Klauke, Erich; Priesnitz, Uwe; Riebel, Hans-Jochem; Eue, Ludwig; and Schmidt, Robert R., 4,657,577, Cl. 71-86.000.

Forster, Heinz; Diehr, Hans-Joachim; Maurer, Fritz; Klauke, Erich; Eue, Ludwig; Santel, Hans-Joachim; Schmidt, Robert R.; Reinecke, Paul; and Hanssler, Gerd, 4,708,731, Cl. 71-90.000.

Franckowiak, Gerhard; Bechem, Martin; Gross, Rainer; Kayser, Michael; Schramm, Matthias; and Thomas, Gunter, 4,710,501, Cl. 514-256.000.

Franke, Gunter; Ockelmann, Dieter; Raue, Roderich; and Wild, Peter, 4,710,569, Cl. 544-31.000.

Franz, Gerhard; Schonfelder, Lothar; and Heine, Heinrich, 4,676,838, Cl. 106-304.000.

Freitag, Dieter; Bottenbruch, Ludwig; Wilms, Klaus G.; and Tacke, Peter, 4,645,806, Cl. 525-462.000.

Freitag, Dieter; Nouvertne, Werner; Tacke, Peter; and Wilms, Klaus G., 4,704,430, Cl. 525-67.000.

Fritsch, Karl-Herbert; and Bier, Peter, 4,699,745, Cl. 264-143.000.

Furstenwerth, Hauke; and Schundehutte, Karl H., 4,705,861, Cl. 548-178.000.

Gajowski, Jan; Regel, Erik; Buchel, Karl H.; Brandes, Wilhelm; and Reinecke, Paul, 4,657,920, Cl. 514-365.000.

Garthoff, Bernward; Kazda, Stanislav; and Knorr, Andreas, 4,703,038, Cl. 514-19.000.

Gauss, Walter; Kabbe, Hans-Joachim; Paulus, Wilfried; Rosslenbroich, Hans-Jurgen; and Brandes, Wilhelm, 4,644,000, Cl. 514-260.000.

Gayer, Herbert; Brandes, Wilhelm; Hanssler, Gerd; and Reinecke, Paul, 4,683,343, Cl. 514-445.000.

Gehring, Reinhold; Klauke, Erich; Schallner, Otto; Stetter, Jorg; Santel, Hans-Joachim; and Schmidt, Robert R., 4,668,280, Cl. 71-92.000.

Gehring, Reinhold; Schallner, Otto; Stetter, Jorg; Santel, Hans-Joachim; and Schmidt, Robert R., 4,681,618, Cl. 71-92.000.

Gehring, Reinhold; Schallner, Otto; Stetter, Jorg; Santel, Hans-Joachim; and Schmidt, Robert R., 4,685,956, Cl. 71-92.000.

Gehring, Reinhold; Schallner, Otto; Stetter, Jorg; Lurssen, Klaus; Santel, Hans-Joachim; and Schmidt, Robert R., 4,685,957, Cl. 71-92.000.

Gehring, Reinhold; Lindig, Markus; Schallner, Otto; Santel, Hans-Joachim; Schmidt, Robert R.; and Stetter, Jorg, 4,695,308, Cl. 71-86.000.

Gehring, Reinhold; Schallner, Otto; Stetter, Jorg; Santel, Hans-Joachim; Schmidt, Robert R.; and Lurssen, Klaus, 4,711,658, Cl. 71-92.000.

Gerken, Rudolf; Wiederhoft, Gerhard; Lailach, Gunter; Gutsche, Walter; and Muller, Wolfgang D., 4,663,131, Cl. 423-82.000.

Gerken, Rudolf; Lailach, Gunter; Becher, Dieter; and Witt, Harro, 4,663,490, Cl. 568-934.000.

Goldmann, Siegfried; Schramm, Matthias; Thomas, Gunter; and Gross, Rainer, 4,642,310, Cl. 514-301.000.

Goldmann, Siegfried; Schramm, Matthias; Thomas, Gunter; and Gross, Rainer, 4,668,691, Cl. 514-337.000.

Goossens, John; Oppermann, Gunter; Grape, Wolfgang; and Hartel, Volker, 4,645,614, Cl. 252-75.000.

Goossens, John; Oppermann, Gunter; Podszun, Wolfgang; and Hartel, Volker, 4,668,417, Cl. 252-75.000.

Goossens, John; Oppermann, Gunter; and Grape, Wolfgang, 4,702,855, Cl. 252-75.000.

Gorlitzer, Klaus; Bartke, Ulrich; Goldmann, Siegfried; Schramm, Matthias; Thomas, Gunter; and Gross, Rainer, 4,647,568, Cl. 514-302.000.

Grogler, Gerhard; Kopp, Richard; Hess, Heinrich; and Rasshofer, Werner, 4,663,415, Cl. 528-61.000.

Grogler, Gerhard; Kopp, Richard; and Hess, Heinrich, 4,667,008, Cl. 528-67.000.

Grohe, Klaus; Klimetzek, Volker; Metzger, Karl G.; Stunkel, Klaus G.; and Zeiler, Hans-Joachim, 4,659,603, Cl. 424-88.000.

Grohe, Klaus; Zeiler, Hans-Joachim; and Metzger, Karl G., 4,666,920, Cl. 514-312.000.

Grohe, Klaus; Zeiler, Hans-Joachim; and Metzger, Karl G., 4,670,444, Cl. 514-300.000.

Grohe, Klaus, 4,680,401, Cl. 546-153.000.

Grohe, Klaus, 4,699,992, Cl. 558-405.000.

Grohe, Klaus; and Lammens, Robert, 4,705,789, Cl. 514-254.000.

Groll, Manfred; and Ockelmann, Dieter, 4,647,409, Cl. 540-134.000.

Gunther, Andreas; Malone, James R.; Lenthe, Manfred; and Hohl, Hans-Walter, 4,683,308, Cl. 544-211.000.

Haas, Peter; Barnes, James M.; and Goyert, Wilhelm, 4,639,478, Cl. 524-97.000.

Haas, Peter; Freitag, Hans-Albrecht; Avar, Geza; Sommerfeld, Claus-Dieter; and Illger, Hans-Walter, 4,644,017, Cl. 521-129.000.

Haas, Peter; Weber, Hans-Ulrich; Sommerfeld, Claus-Dieter; Giersig, Manfred; and Wiedermann, Rolf, 4,681,903, Cl. 521-167.000.

Haas, Peter, 4,695,630, Cl. 544-75.000.

Hajek, Manfred; Salzburg, Herbert; and Ziemann, Heinz, 4,642,344, Cl. 544-196.000.

Hallenbach, Werner; Lindel, Hans; and Brandes, Wilhelm, 4,692,461, Cl. 514-443.000.

Hammen, Hans W.; and Voege, Herbert, 4,636,503, Cl. 514-249.000.

Hammer, Heinz; Eichenauer, Herbert; Roos, Ernst; and Jurgens, Eberhard, 4,699,972, Cl. 528-293.000.

Hammerschmidt, Erich; Behre, Horst; Blank, Heinz U.; and Mayer, Dietmar, 4,705,652, Cl. 260-512.000.

Harms, Wolfgang; Kuth, Robert; and Wunderlich, Klaus, 4,676,803, Cl. 8-532.000.

Harnisch, Horst; and Wolfbeis, Otto S., 4,659,657, Cl. 435-21.000.

Harnisch, Horst; and Siegel, Edgar, deceased, 4,695,405, Cl. 252-600.000.

Hassel, Tillmann; Muller, Hanns P.; and Boshagen, Horst, 4,659,844, Cl. 549-424.000.

Hegasy, Ahmed; and Winter, Manfred, 4,693,892, Cl. 424-456.000.

Heidenreich, Holger; and Wolfrum, Gerhard, 4,711,954, Cl. 534-780.000.

Heinemann, Ulrich; Knops, Hans-Joachim; Steinbeck, Karl; Brandes, Wilhelm; Hanssler, Gerd; and Reinecke, Paul, 4,642,312, Cl. 514-364.000.

Heitz, Walter; and Risse, Wilhelm, 4,677,185, Cl. 528-212.000.

Heller, Harold; Lange, Peter M.; and Martinola, Friedrich, 4,705,637, Cl. 210-670.000.

Hendricks, Udo W.; and Schmidt, Adolf, 4,701,284, Cl. 260-513.00N.

Hendricks, Udo W.; and Schmidt, Adolf, 4,705,889, Cl. 562-564.000.

Henneke, Karl-Wilhelm; and Wedemeyer, Karlfried, 4,650,910, Cl. 568-655.000.

Henning, Wolfgang; Meckel, Walter; Beck, Ulrich; Baumgen, Heinz; and Konig, Joachim, 4,670,100, Cl. 162-135.000.

Hentschel, Karl-Heinz; Kussi, Siegfried; and Botsch, Hansjurgen, 4,666,618, Cl. 252-47.000.

Herd, Karl J.; and Michna, Martin, 4,638,054, Cl. 534-637.000.

Herd, Karl J.; and Schundehutte, Karl H., 4,659,827, Cl. 544-299.000.

Hess, Heinrich; Grogler, Gerhard; and Kopp, Richard, 4,716,182, Cl. 521-163.000.

Hohlein, Peter; Schmidt, Manfred; Pedain, Josef; Riberi, Bernd; and Sonntag, Michael, 4,639,499, Cl. 526-285.000.

Hohlein, Peter; Fehlbier, Alois; and Gruber, Hermann, 4,677,181, Cl. 528-74.500.

Holmwood, Graham; Kramer, Wolfgang; Buchel, Karl H.; Reinecke, Paul; and Brandes, Wilhelm, 4,645,767, Cl. 514-383.000.

Holmwood, Graham; Buchel, Karl H.; Plempel, Manfred; and Haller, Ingo, 4,652,579, Cl. 514-383.000.

Holmwood, Graham; Stetter, Jorg; Buchel, Karl H.; Reinecke, Paul; Brandes, Wilhelm; and Scheinpflug, Hans, 4,672,134, Cl. 549-551.000.

Hombach, Rudolf; Reiff, Helmut; and Dollhausen, Manfred, 4,663,377, Cl. 524-196.000.

Horstmann, Walter, 4,663,484, Cl. 564-430.000.

Hurnik, Helmut; Finzenhagen, Manfred; and Jeblick, Werner, 4,714,568, Cl. 252-350.000.

Idel, Karsten; and Willenberg, Bernd, 4,645,825, Cl. 528-388.000.

Idel, Karsten; Ostlinning, Edgar; Freitag, Dieter; and Alewelt, Wolfgang, 4,661,584, Cl. 528-388.000.

Ingendoh, Axel; Meyer, Horst; and Garthoff, Bernward, 4,657,905, Cl. 514-231.000.

Ingendoh, Axel; Berschauer, Friedrich; Becker, Benedikt; Stendel, Wilhelm; Homeyer, Bernhard; Scheer, Martin; de Jong, Anno; Hanssler, Gerd; and Reinecke, Paul, 4,678,797, Cl. 514-378.000.

Ingendoh, Axel; Scheinert, Wolfgang; Becker, Benedikt; Halcour, Kurt; and Stendel, Wilhelm, 4,681,892, Cl. 514-378.000.

Ingendoh, Axel; Meyer, Horst; and Garthoff, Bernward, 4,703,125, Cl. 548-126.000.

Ingendoh, Axel; Meyer, Horst; and Garthoff, Bernward, 4,709,031, Cl. 544-333.000.

Jackman, Dennis E.; Westphal, Dietmar B.; and Schmidt, Thomas, 4,659,819, Cl. 544-182.000.

Jager, Horst, 4,659,806, Cl. 534-625.000.

Jelich, Klaus; Kramer, Wolfgang; Brandes, Wilhelm; Hanssler, Gerd; and Reinecke, Paul, 4,666,933, Cl. 514-404.000.

Jonas, Friedrich; and Hocker, Jurgen, 4,663,078, Cl. 252-500.000.

Jonas, Friedrich; Muller, Richard; Merten, Rudolf; and Rottmaier, Ludwig, 4,702,953, Cl. 428-209.000.

Junge, Bodo; Krause, Hans P.; Muller, Lutz; and Puls, Walter, 4,639,436, Cl. 514-24.000.

Kabbe, Hans-Joachim; Widdig, Arno; Niewohner, Ulrich; Knorr, Andreas; Garthoff, Bernward; and Kazda, Stanislav, 4,647,579, Cl. 514-456.000.

Kabbe, Hans-Joachim; Niewohner, Ulrich; Widdig, Arno; Knorr, Andreas; Garthoff, Bernward; and Kazda, Stanislav, 4,659,737, Cl. 514-456.000.

Kalk, Walter; Schundehutte, Karl H.; and Soll, Manfred, 4,695,632, Cl. 544-194.000.

Kauth, Hermann; Bosshammer, Hubert; Schmidt, Manfred; and Freitag, Dieter, 4,668,720, Cl. 524-86.000.

Kauth, Hermann; Schmidt, Manfred; Freitag, Dieter; Rudolph, Udo; and Kleiner, Frank, 4,701,554, Cl. 564-14.000.

Kerimis, Dimitrios; Muller, Hanns P.; Uerdingen, Walter; and Heine, Heinrich, 4,689,376, Cl. 525-504.000.

Kiemle, Peter; Wiese, Jurgen; and Buxbaum, Gunter, 4,686,142, Cl. 428-403.000.

Klauke, Erich; Baasner, Bernd; and Schundehutte, Karl H., 4,716,229, Cl. 544-334.000.

Kluth, Joachim; Muller, Klaus-Helmut; and Pfister, Theodor, 4,711,959, Cl. 544-320.000.

Knofel, Hartmut; Penninger, Stefan; Brockelt, Michael; Hammen, Gunter; and Stutz, Herbert, 4,675,437, Cl. 560-330.000.

Knops, Hans-Joachim; Babczinski, Peter; Eue, Ludwig; Santel, Hans-Joachim; and Schmidt, Robert R., 4,670,044, Cl. 71-92.000.

Kohler, Karl-Heinz; Lindner, Christian; Rempel, Dieter; Weber, Gunter; Ott, Karl-Heinz; and Binsack, Rudolph, 4,666,972, Cl. 524-504.000.

Kolbl, Heinz; Gompper, Rudolf; Behrenz, Wolfgang; Hammann, Ingeborg; Homeyer, Bernhard; and Hermann, Gunther, 4,647,581, Cl. 514-475.000.

Konig, Joachim; Suling, Carlhans; and Nachtkamp, Klaus, 4,636,545, Cl. 524-457.000.

Konig, Klaus; Pedain, Josef; and Woynar, Helmut, 4,656,223, Cl. 524-871.000.

Konig, Klaus; and Heitkamper, Peter, 4,657,940, Cl. 521-164.000.

Kooke, Dieter; and Schwabe, Peter, 4,670,053, Cl. 106-35.000.

Kopp, Richard; Grogler, Gerhard; Hess, Heinrich; and Konig, Klaus, 4,680,367, Cl. 528-44.000.

Kramer, Wolfgang; Buchel, Karl H.; Holmwood, Graham; Regel, Erik; Reinecke, Paul; and Brandes, Wilhelm, 4,639,462, Cl. 514-383.000.

Kramer, Wolfgang; Reiser, Wolf; Berg, Dieter; Brandes, Wilhelm; and Reinecke, Paul, 4,668,700, Cl. 514-467.000.

Kramer, Wolfgang; Buchel, Karl H.; Frohberger, Paul-Ernst; Brandes, Wilhelm; and Lurssen, Klaus, 4,711,657, Cl. 71-92.000.

Kramer, Wolfgang; Weissmuller, Joachim; Reiser, Wolf; Berg, Dieter; Brandes, Wilhelm; and Reinecke, Paul, 4,713,379, Cl. 514-212.000.

Kramer, Wolfgang; Buchel, Karl H.; Frohberger, Paul-Ernst; Brandes, Wilhelm; and Lurssen, Klaus, 4,715,887, Cl. 71-92.000.

Krauthausen, Edmund; and Schmidt, Friedrich, 4,663,047, Cl. 210-616.000.

Kress, Hans-Jurgen; Bottenbruch, Ludwig; Witman, Mark; Kircher, Klaus; Lindner, Christian; and Ott, Karl-Heinz, 4,649,168, Cl. 524-130.000.

Kress, Hans-Jurgen; and Kircher, Klaus, 4,657,955, Cl. 524-94.000.

Kress, Hans-Jurgen; and Kircher, Klaus, 4,661,543, Cl. 524-94.000.

Kress, Hans-Jurgen; Lindner, Christian; Morbitzer, Leo; Peters, Horst; Ott, Karl-Heinz; and Schoeps, Jochen, 4,683,265, Cl. 525-67.000.

Kress, Hans-Jurgen; Muller, Friedemann; Lindner, Christian; Peters, Horst; and Buckers, Josef, 4,692,488, Cl. 524-139.000.

Kress, Hans-Jurgen; and Kircher, Klaus, 4,713,462, Cl. 548-473.000.

Kruckenberg, Winfried; Leverenz, Klaus; and Otten, Hans-Gunter, 4,681,932, Cl. 534-575.000.

Krug, Wolfgang; Knispel, Gottfried; and Wrobel, Dieter, 4,704,408, Cl. 521-82.000.

Kruger, Bernd-Wieland; Hoffmann, Hellmut; Roos, Ernst; and Behrenz, Wolfgang, 4,678,777, Cl. 514-110.000.

Kruger, Bernd-Wieland; Behrenz, Wolfgang; Becker, Benedikt; Homeyer, Bernhard; and Stendel, Wilhelm, 4,695,563, Cl. 514-105.000.

Kruger, Bernd-Wieland; Hayauchi, Yutaka; Lockhoff, Oswald; Stadler, Peter; Metzger, Karl G.; Stunkel, Klaus G.; and Zeiler, Hans-Joachim, 4,699,899, Cl. 514-42.000.

Kruger, Bernd-Wieland; Lockhoff, Oswald; Metzger, Karl G.; Opitz, Hans-Georg; Schaller, Klaus; Stunkel, Klaus G.; and Zeiler, Hans-Joachim, 4,716,152, Cl. 514-25.000.

Kubitza, Werner; and Mennicken, Gerhard, 4,711,918, Cl. 524-196.000.

Kuhle, Engelbert; Paulus, Wilfried; and Genth, Hermann, 4,645,776, Cl. 514-425.000.

Lailach, Gunter; Gerken, Rudolf; and Schultz, Karl-Heinz, 4,670,235, Cl. 423-240.000.

Lange, Peter M.; and Rauenbusch, Erich, 4,666,776, Cl. 428-402.000.

Lantzsch, Reinhard; and Reubke, Karl-Julius, 4,639,527, Cl. 548-262.000.

Lantzsch, Reinhard; Arlt, Dieter; and Jautelat, Manfred, 4,663,465, Cl. 549-4.000.

Lantzsch, Reinhard; Arlt, Dieter; and Jautelat, Manfred, 4,681,952, Cl. 549-61.000.

Lantzsch, Reinhard; and Elbe, Hans-Ludwig, 4,686,291, Cl. 544-335.000.

Lenthe, Manfred; Allenbach, Udo; Buttner, Gerhard; and Christmann, Karl-Friedrich, 4,647,676, Cl. 549-462.000.

Lindner, Christian; Ott, Karl-Heinz; Nouvertne, Werner; and Muller, Peter R., 4,656,227, Cl. 525-133.000.

Lindner, Christian; Ott, Karl-Heinz; Uerdingen, Walter; Braese, Hans-Eberhard; and Kress, Hans-Jurgen, 4,666,980, Cl. 525-83.000.

Lindner, Christian; Brudermanns, Karola; Waniczek, Helmut; Uerdingen, Walter; and Hurnik, Helmut, 4,683,267, Cl. 525-133.000.

Lockhoff, Oswald; Stadler, Peter; Scheer, Martin; Berschauer, Friedrich; and de Jong, Anno, 4,680,287, Cl. 514-42.000.

Lockhoff, Oswald; Kruger, Bernd-Wieland; Stadler, Peter; Pauwens, Arnold; Streissle, Gert; Taylor, Peter; Zeiler, Hans-Joachim; and Metzger, Karl-Georg, 4,686,208, Cl. 514-42.000.

Mann, Max; and Kapps, Manfred, 4,715,746, Cl. 405-264.000.

Mardin, Mithat; Busse, Wolf-Dieter; Hoffmeister, Friedrich; Seuter, Friedel; Perzborn, Elisabeth; Schlossmann, Klaus; Mayer, Dieter; and Fiedler, Volker, 4,657,924, Cl. 514-404.000.

Mardin, Mithat; Seuter, Friedel; Perzborn, Elisabeth; Schlossmann, Klaus; Mayer, Dieter; and Fiedler, Volker, 4,670,460, Cl. 514-404.000.

Marhold, Albrecht, 4,681,955, Cl. 549-362.000.

Martinola, Friedrich, 4,645,604, Cl. 210-675.000.

Martinola, Friedrich, 4,666,608, Cl. 210-675.000.

Marzolph, Gerhard; Blank, Heinz U.; Reinecke, Paul; Brandes, Wilhelm; and Hanssler, Gerd, 4,666,935, Cl. 514-424.000.

Marzolph, Gerhard; Lunkenheimer, Winfried; and Fedtke, Carl, 4,715,888, Cl. 71-93.000.

Maurer, Fritz, 4,658,025, Cl. 540-607.000.

Maurer, Fritz, 4,665,175, Cl. 544-243.000.

Maurer, Fritz; Homeyer, Bernhard; and Becker, Benedikt, 4,666,894, Cl. 514-86.000.

Maurer, Fritz; Homeyer, Bernard; and Stendel, Wilhelm, 4,678,778, Cl. 514-89.000.

Maurer, Fritz, 4,686,290, Cl. 544-243.000.

Maurer, Fritz; and Grohe, Klaus, 4,695,646, Cl. 560-43.000.

Maurer, Fritz, 4,703,122, Cl. 544-319.000.

Meier, Helmut-Martin; Dhein, Rolf; Winkel, Jens; Klein, Gerhard; and Kloker, Werner, 4,634,791, Cl. 560-163.000.

Meier, Helmut-Martin; Dhein, Rolf; Winkel, Jens; Klein, Gerhard; and Kloker, Werner, 4,673,713, Cl. 525-278.000.

Meier, Helmut-Martin; Dhein, Rolf; Winkel, Jens; Klein, Gerhard; and Kloker, Werner, 4,694,041, Cl. 525-25.000.

Meier, Helmut-Martin; Heine, Hans-Georg; Pischtschan, Alfred; Dhein, Rolf; and Rudolph, Hans, 4,710,529, Cl. 524-139.000.

Meixner, Jurgen; Muller, Manfred; and Kremer, Wolfgang, 4,673,758, Cl. 560-90.000.

Merten, Rudolf; and Rottmaier, Ludwig, 4,665,190, Cl. 548-264.000.

Metzger, Carl; Eue, Ludwig; and Hack, Helmuth, 4,639,526, Cl. 548-140.000.

Meyer, Horst; Franckowiak, Gerhard; Rosentreter, Ulrich; Gross, Rainer; Thomas, Gunter; Schramm, Matthias; Kayser, Michael; Seuter, Friedel; Perzborn, Elisabeth; and Bechem, Martin, 4,707,479, Cl. 514-222.000.

Meyer, Rolf-Volker; Fahnler, Friedrich; Dhein, Rolf; and Michael, Dietrich, 4,684,746, Cl. 564-38.000.

Meyer, Rolf-Volker; Kreuder, Hans-Joachim; and Hohl, Erwin, 4,698,426, Cl. 544-253.000.

Moeschler, Heinrich F.; Pfluger, Wolfgang; and Wendisch, Detlef, 4,689,232, Cl. 424-195.100.

Mohring, Edgar; Wagner, Kuno; and Muller, Hanns P., 4,654,377, Cl. 521-170.000.

Mohring, Edgar; Muller, Hanns P.; Roessler, Peter; Wagner, Kuno; and Tietz, Helmut, 4,684,728, Cl. 544-182.000.

Moriya, Koichi; Priesnitz, Uwe; Riebel, Hans-Jochem; Eue, Ludwig; and Schmidt, Robert R., 4,639,537, Cl. 558-48.000.

Morris, David B.; Rollett, Andrew C.; and Roberts, Donald M., 4,714,177, Cl. 222-58.000.

Mues, Peter; Buysch, Hans-Josef; Brassat, Bert; and Heine, Heinrich, 4,694,065, Cl. 528-371.000.

Mues, Peter; Kerimis, Dimitrios; Muller, Hanns P.; and Buysch, Hans-Josef, 4,707,539, Cl. 528-371.000.

Muller, Hanns P.; Clarenz, Werner; von Gizycki, Ulrich; and Wagner, Kuno, 4,639,502, Cl. 528-45.000.

Muller, Hanns P.; Clarenz, Werner; and Grave, Heinrich, 4,677,221, Cl. 560-115.000.

Muller, Hans; and Preis, Lothar, 4,665,678, Cl. 52-808.000.

Musch, Rudiger, 4,704,441, Cl. 526-220.000.

Mussig, Bernhard; Meyer, Rolf-Volker; and Brassat, Bert, 4,677,156, Cl. 525-425.000.

Naumann, Klaus; Braden, Rudolf; Behrenz, Wolfgang; Becker, Benedikt; Homeyer, Bernhard; and Stendel, Wilhelm, 4,699,922, Cl. 514-531.000.

Naumann, Rolf; Rademachers, Jakob; Buxbaum, Gunter; Rodi, Fritz; and Waid, Karl, 4,689,086, Cl. 106-290.000.

Niederdellmann, Georg; Goyert, Wilhelm; Quiring, Berad; and Wagner, Hans, 4,656,199, Cl. 521-79.000.

Nielinger, Werner; Stix, Wolfgang; and Bottenbruch, Ludwig, 4,645,822, Cl. 528-336.000.

Nielinger, Werner; Michael, Dietrich; Fullmann, Heinz-Josef; Binsack, Rudolf; and Selbeck, Harald, 4,670,487, Cl. 524-80.000.

Nielinger, Werner; Brinkmeyer, Hermann; Binsack, Rudolf; Bottenbruch, Ludwig; and Fullmann, Heinz-Josef, 4,673,728, Cl. 528-339.000.

Niemers, Ekkehard; Grutzmann, Rudi; Mardin, Mithat; Busse, Wolf-Dieter; and Meyer, Horst, 4,636,497, Cl. 514-215.000.

Oeckl, Siegfried; Schade, Gerold; Schmitt, Hans-Georg; Paulus, Wilfried; and Genth, Hermann, 4,647,687, Cl. 558-439.000.

Oeckl, Siegfried; Reinecke, Paul; Brandes, Wilhelm; Kuck, Karl-Heinz; Paulus, Wilfried; and Genth, Hermann, 4,661,632, Cl. 564-217.000.

Oeckl, Siegfried; Mitschker, Alfred; Lange, Peter M.; and Martinola, Friedrich, 4,695,556, Cl. 502-11.000.

Ohtsubo, Akio, 4,643,942, Cl. 428-328.000.

Ostlinning, Edgar; and Idel, Karsten, 4,663,430, Cl. 528-388.000.

Ott, Karl-Heinz; Lindner, Christian; Uerdingen, Walter; Braese, Hans-Eberhard; and Hurnik, Helmut, 4,657,976, Cl. 525-83.000.

Paessens, Arnold; Streissle, Gert; Plempel, Manfred; Buchel, Karl H.; Elbe, Hans-Ludwig; Holmwood, Graham; Kraatz, Udo; and Regel, Erik, 4,668,660, Cl. 514-783.000.

Paetz, Christian; and Wedemeyer, Karlfried, 4,670,608, Cl. 568-709.000.

Pedain, Josef; Konig, Klaus; and Schonfelder, Manfred, 4,656,243, Cl. 528-302.000.

Pedain, Josef; Konig, Klaus; and Schonfelder, Manfred, 4,692,384, Cl. 428-423.300.

Peters, Robert; Schulte, Klaus; Sachs, Hanns I.; and Kasperek, Peter, 4,652,595, Cl. 523-315.000.

Petersen, Uwe; Grohe, Klaus; Zeiler, Hans-Joachim; and Metzger, Karl G., 4,703,047, Cl. 514-254.000.

Pfister, Theodor; Forster, Heinz; Eue, Ludwig; Schmidt, Robert R.; and Santel, Hans-Joachim, 4,670,040, Cl. 71-86.000.

Podder, Chiraranjan; and Schlesmann, Harro, 4,665,232, Cl. 564-406.000.

Podder, Chiraranjan; and Schlesmann, Harro, 4,665,233, Cl. 564-406.000.

Podder, Chiraranjan; and Schlesmann, Harro, 4,670,595, Cl. 564-406.000.

Priesnitz, Uwe; and Riebel, Hans-Jochem, 4,659,822, Cl. 545-194.000.

Probst, Joachim; Sonntag, Michael; Richter, Roland; and Muller, Hanns P., 4,645,817, Cl. 528-45.000.

Probst, Joachim; Beck, Ulrich; and Baumgen, Heinz, 4,659,431, Cl. 162-168.200.

Rademachers, Jakob; Turban, Karlheinz; Franz, Gerhard; Fuhr, Werner; and Holle, Bernd, 4,681,637, Cl. 106-304.000.

Rasshofer, Werner; and Freitag, Hans-Albrecht, 4,644,016, Cl. 521-129.000.

Rasshofer, Werner; Meiners, Hans-Joachim; Seel, Klaus; and Wussow, Hans-Georg, 4,645,630, Cl. 264-54.000.

Rasshofer, Werner; Grogler, Gerhard; and Kopp, Richard, 4,665,177, Cl. 544-296.000.

Rasshofer, Werner; and Paul, Reiner, 4,677,136, Cl. 521-159.000.

Rasshofer, Werner; Paul, Reiner; Seel, Klaus; and Weber, Christian, 4,703,100, Cl. 528-66.000.

Rasshofer, Werner; Ganster, Otto; Luckas, Brund; and Rottmaier, Ludwig, 4,707,502, Cl. 521-159.000.

Regel, Erik; Draber, Wilfried; Buchel, Karl H.; Frohberger, Paul-Ernst; and Lurssen, Klaus, 4,699,645, Cl. 71-76.000.

Reichert, Karl-Heinz; and Koschinski, Ingo, 4,657,945, Cl. 523-200.000.

Reichert, Karl-Heinz; and Koschinski, Ingo, 4,710,546, Cl. 525-420.000.

Reichmann, Wolfgang; and Lehnert, Gunther, 4,652,493, Cl. 428-423.100.

Reinehr, Ulrich; and Herbertz, Toni, 4,650,624, Cl. 264-143.000.

Reinehr, Ulrich; Sasse, Klaus; Jager, Gerhard; and Radt, Walter, 4,663,365, Cl. 523-122.000.

Reinehr, Ulrich; Buchel, Karl H.; Jager, Gerhard; Plempel, Manfred; and Radt, Walter, 4,670,336, Cl. 428-359.000.

Reinehr, Ulrich; Hirsch, Rolf-Burkhard; Dross, Joachim; and Jungverdorben, Hermann-Josef, 4,714,045, Cl. 118-420.000.

Reiners, Jurgen; Winkel, Jens; Klauke, Erich; Suling, Carlhans; and Podszun, Wolfgang, 4,665,217, Cl. 560-160.000.

Reinking, Klaus; Idel, Karsten; and Ostlinning, Edgar, 4,665,156, Cl. 528-388.000.

Reiser, Wolf; Draber, Wilfried; Buchel, Karl H.; Lurssen, Klaus; Frohberger, Paul-Ernst; and Paul, Volker, 4,647,302, Cl. 71-92.000.

Richter, Roland; Muller, Hanns P.; and Wegner, Christian, 4,638,795, Cl. 128-90.000.

Richter, Wolfgang; Buysch, Hans-Josef; Brassat, Bert; Merten, Josef; and Haupt, Heinrich, 4,656,228, Cl. 525-433.000.

Riebel, Hans-Jochem; Homeyer, Bernhard; Becker, Benedikt; and Behrenz, Wolfgang, 4,665,061, Cl. 514-89.000.

Ritter, Wolfgang, 4,646,377, Cl. 6-12.00M.

Rolf, Meinhard; and Neeff, Rutger, 4,666,526, Cl. 106-309.000.

Rolf, Meinhard; Neeff, Rutger; and Muller, Walter, 4,709,019, Cl. 534-655.000.

Rosentreter, Ulrich; Perzborn, Elisabeth; and Seuter, Friedel, 4,686,229, Cl. 514-332.000.

Rottmaier, Ludwig; and Merten, Rudolf, 4,658,026, Cl. 544-238.000.

Sackmann, Gunter; Mazanek, Jan; Oberkirch, Wolfgang; and Haril, Herbert, 4,670,516, Cl. 525-327.600.

Salzburg, Herbert; Hajek, Manfred; and Hanssler, Gerd, 4,666,930, Cl. 514-373.000.

Salzburg, Herbert; Hajek, Manfred; and Hanssler, Gerd, 4,667,041, Cl. 548-212.000.

Salzburg, Herbert; Hajek, Manfred; Hanssler, Gerd; and Kuck, Karl-Heinz, 4,683,233, Cl. 514-253.000.

Salzburg, Herbert; Hajek, Manfred; Hagemann, Hermann; Kuhle, Engelbert; Fuhrer, Wolfgang; Hanssler, Gerd; Brandes, Wilhelm; and Reinecke, Paul, 4,713,389, Cl. 514-373.000.

Samaan, Samir, 4,658,039, Cl. 548-501.000.

Sasse, Klaus; Brandes, Wilhelm; Hanssler, Gerd; Reinecke, Paul; Schmitt, Hans-Georg; and Paulus, Wilfried, 4,663,327, Cl. 514-275.000.

Sasse, Klaus; Hammond, Michael; Seuter, Friedel; Perzborn, Elisabeth; Pelster, Bernhard; Sturton, Graham; and Abram, Trevor, 4,697,344, Cl. 514-275.000.

Schade, Gerold; Paulus, Wilfried; and Schmitt, Hans-Georg, 4,686,236, Cl. 514-526.000.

Schafer, Walter; Muller, Hanns P.; Kuchenmeister, Rolf; and Sickert, Armin, 4,707,386, Cl. 427-386.000.

Schalenbach, Rolf; and Waldmann, Helmut, 4,661,646, Cl. 568-857.000.

Schittenhelm, Hans-Joachim; and Joseph, Werner, 4,659,586, Cl. 427-27.000.

Schittenhelm, Hans-Joachim; Joseph, Werner; and Krist, Otto, 4,689,271, Cl. 428-446.000.

Schittenhelm, Hans-Joachim; Joseph, Werner; and Trogel, Gerhard, 4,713,530, Cl. 219-543.000.

Schluter, Klemens; and Schnorbach, Hans-Jurgen, 4,659,736, Cl. 514-452.000.

Schmidt, Manfred; Paul, Winfried; Freitag, Dieter; and Rathmann, Dietrich, 4,681,922, Cl. 525-474.000.

Scholl, Hans-Joachim, 4,665,178, Cl. 544-336.000.

Schreiner, Wilhelm; and Grimm, Wolfgang, 4,689,003, Cl. 425-224.000.

Schriewer, Michael; Grohe, Klaus; Zeiler, Hans-Joachim; and Metzger, Karl G., 4,705,788, Cl. 514-254.000.

Schroer, Wolf-Dieter; Muszik, Janos; Cramm, Gunther; and Benn, Otto, 4,673,729, Cl. 528-397.000.

Schulte, Klaus; and Ersfeld, Heinrich, 4,680,003, Cl. 425-206.000.

Schulte, Klaus; Nadolski, Klaus; Ersfeld, Heinrich; Ebeling, Wilfried; Boden, Heinrich; and Schneider, Walter, 4,695,166, Cl. 366-160.000.

Schutze, Detlef-Ingo; and Wunderlich, Klaus, 4,652,660, Cl. 549-56.000.

Schwabe, Peter; and Voigt, Reiner, 4,695,322, Cl. 106-35.000.

Schwamborn, Michael; Kuhle, Engelbert; Klauke, Erich; Eue, Ludwig; Schmidt, Robert R.; Santel, Hans-Joachim; and Hanssler, Gerd, 4,640,923, Cl. 514-272.000.

Schwirtlich, Ingo; and Woditsch, Peter, 4,670,096, Cl. 156-608.000.

Seng, Florin; and Bremen, Josef, 4,695,652, Cl. 564-343.000.

Serini, Volker; Schulte, Bernhard; Waldenrath, Werner; Freitag, Dieter; Hucks, Uwe; Wank, Joachim; and Weber, Hans-Leo, 4,654,411, Cl. 528-176.000.

Serini, Volker; Freitag, Dieter; and Rathmann, Dietrich, 4,714,746, Cl. 525-439.000.

Serno, Peter, 4,711,902, Cl. 514-356.000.

Sirinyan, Kirkor; Wolf, Gerhard D.; von Gizycki, Ulrich; and Merten, Rudolf, 4,636,441, Cl. 428-447.000.

Sirinyan, Kirkor; Merten, Rudolf; and Giesecke, Henning, 4,657,786, Cl. 427-304.000.

Sirinyan, Kirkor; Jonas, Friedrich; and Merten, Rudolf, 4,659,592, Cl. 427-304.000.

Sirinyan, Kirkor; Merten, Rudolf; and Wolf, Gerhard D., 4,661,384, Cl. 427-304.000.

Sirrenberg, Wilhelm; Klauke, Erich; Zoebelein, Gerhard; Becker, Benedikt; and Stendel, Wilhelm, 4,699,916, Cl. 514-364.000.

Sirrenberg, Wilhelm; Klauke, Erich; Hammann, Ingeborg; and Stendel, Wilhelm, 4,711,905, Cl. 514-522.000.

Skipka, Guido; and Durholz, Friedrich, 4,680,146, Cl. 260-505.00R.

Spies, Manfred; Strohriegl, Peter; and Heitz, Walter, 4,696,999, Cl. 528-319.000.

Stadler, Peter; Lockhoff, Oswald; Opitz, Hans-Georg; and Schaller, Klaus, 4,683,222, Cl. 514-42.000.

Stahl, Hans G.; Hohlein, Peter; Traenckner, Hans-Joachim; Fleiter, Lothar; and Schwindt, Jurgen, 4,684,691, Cl. 524-534.000.

Stammann, Gunter; Grolig, Johann; and Waldmann, Helmut, 4,705,843, Cl. 528-212.000.

Stammann, Gunter; Kricsfalussy, Zoltan; Waldmann, Helmut; Schneider, Joachim; and Medem, Harald, 4,714,689, Cl. 502-54.000.

Starzewski, Karl-Heinz A. O.; Witte, Josef; and Bartl, Herbert, 4,691,036, Cl. 556-16.000.

Stegelmeier, Hartmut; Fiedler, Volker; Mardin, Mithat; Mayer, Dieter; Perzborn, Elisabeth; and Seuter, Friedel, 4,659,732, Cl. 514-404.000.

Steinbach, Hans-Horst; and Rieder, Matthias, 4,643,771, Cl. 106-111.000.

Stetter, Jorg; Wroblowsky, Heinz-Jurgen; Schmidt, Robert R.; Santel, Hans-Joachim; Hanssler, Gerd; and Lurssen, Klaus, 4,638,004, Cl. 514-272.000.

Stetter, Jorg; Schmidt, Robert R.; Santel, Hans-Joachim; Hanssler, Gerd; and Eue, Ludwig, 4,659,366, Cl. 71-92.000.

Stix, Wolfgang; Nouvertne, Werner; and Buding, Hartmuth, 4,652,607, Cl. 525-67.000.

Stix, Wolfgang; and Bottenbruch, Ludwig, 4,663,424, Cl. 528-182.000.

Stoltefuss, Jurgen; Heiker, Fred R.; Franckowiak, Gerhard; Schramm, Matthias; Thomas, Gunter; and Gross, Rainer, 4,645,775, Cl. 514-352.000.

Straub, Otto C., 4,698,221, Cl. 424-89.000.

Streuff, Bernhard; Mathes, Detlef; Schade, Bernd; and Schorsch, Ulrich, 4,675,182, Cl. 424-80.000.

Telle, Helmut; Schieder, Rudolf; Raue, Roderich; and Eckstein, Udo, 4,670,882, Cl. 372-53.000.

Thoma, Wilhelm; Noll, Klaus; Nachtkamp, Klaus; Pedain, Josef; and Schroer, Walter, 4,652,466, Cl. 427-244.000.

Thoma, Wilhelm; Pedain, Josef; Schroer, Walter; and Kling, Waldemar, 4,657,613, Cl. 156-238.000.

Thoma, Wilhelm; Pedain, Josef; and Schroer, Walter, 4,675,211, Cl. 427-208.800.

Tiburtius, Christoph; Marx, Anna; Buschhaus, Hans-Ulrich; and Findeisen, Kurt, 4,659,753, Cl. 523-209.000.

Trummelmeyer, Gerhard; and Ruprecht, Hans-Dieter, 4,716,210, Cl. 528-75.000.

Voege, Herbert; and Rast, Hubert, 4,666,939, Cl. 514-482.000.

von Bittera, Miklos; Schapel, Dietmar; von Gizycki, Ulrich; and Rupp, Roland, 4,661,099, Cl. 604-290.000.

von Bittera, Miklos; Meyer, Rolf-Volker; and Dhein, Rolf, 4,661,104, Cl. 604-896.000.

von Bonin, Wulf; Blahak, Johannes; von Gizycki, Ulrich; and Preis, Lothar, 4,659,797, Cl. 528-28.000.

von Bonin, Wulf; Sattlegger, Hans; and Ebneth, Harold, 4,694,030, Cl. 523-179.000.

Wagner, Rudolf; Halcour, Kurt; Dicke, Hans-Rudolf; and Eckhardt, Volker, 4,716,252, Cl. 568-729.000.

Wagner, Wolfram; Nyssen, Peter R.; Espanion, Gunter; Berkenhaus, Dirk; Haladuda, Gunter; van Pey, Hans-Theo; and Schott, Karl-Heinz, 4,676,815, Cl. 65-16.000.

Wahle, Bernd; Freitag, Dieter; Uerdingen, Walter; Heine, Heinrich; and Blazejak, Manfred, 4,690,998, Cl. 528-96.000.

Walkowiak, Michael; Nehren, Klaus; Podszun, Wolfgang; and Finger, Werner, 4,707,504, Cl. 523-109.000.

Waniczek, Helmut; and Kniege, Wilfried, 4,650,826, Cl. 524-730.000.

Wank, Joachim; Waldenrath, Werner; Schmitz, Heinz; and Pakulat, Gunter, 4,707,396, Cl. 428-216.000.

Weber, Gunter; Dicke, Hans-Rudolf; Vogelsgesang, Roland; Simm, Walter; and Brinkmeyer, Hermann, 4,668,448, Cl. 264-22.000.

Weber, Karl-Arnold; Buysch, Hans-Josef; Noble, Karl-Ludwig; and Traubel, Harro, 4,687,830, Cl. 528-64.000.

Weber, Wilhelm; Sockel, Karl H.; Achtenberg, Theo; and Sattlegger, Hans, 4,705,826, Cl. 524-860.000.

Wegner, Christian; and Waniczek, Helmut, 4,659,335, Cl. 44-53.000.

Wegner, Christian; Schneider, Gottfried; Lanzke, Hans-Uwe; Mayer, Wolfram; Wagner, Kuno; von Bonin, Wulf; von Gizycki, Ulrich; and Schaepel, Dietmar, 4,676,234, Cl. 128-90.000.

Wehinger, Egbert; Knorr, Andreas; Stoepel, Kurt; and Heise, Arend, 4,675,329, Cl. 514-356.000.

Wehinger, Egbert; and Towart, Robertson, 4,680,305, Cl. 514-347.000.

Wehinger, Egbert; and Meyer, Horst, 4,703,119, Cl. 540-544.000.

Wehinger, Egbert; Meyer, Horst; and Benz, Ulrich, 4,705,794, Cl. 514-302.000.

Werner, Friedrich; and Blank, Heinz U., 4,661,621, Cl. 560-174.000.

Westphal, Jochen; and Henk, Hermann, 4,670,548, Cl. 534-809.000.

Wingler, Frank; Koch, Otto; Doering, Joachim; Ott, Karl-Heinz; and Liebig, Lothar, 4,639,473, Cl. 525-83.000.

Wingler, Frank; and Geyer, Otto-Christian, 4,703,097, Cl. 526-279.000.

Wolff, Joachim; Wolf, Karlheinz; and Marschner, Werner, 4,685,933, Cl. 8-527.000.

Wolff, Joachim; Koll, Jochen; Wolf, Karlheinz; Klipper, Reinhold M.; and Lange, Peter M., 4,702,744, Cl. 8-527.000.

Wolff, Joachim; and Wolf, Karlheinz, 4,711,642, Cl. 8-527.000.

Wroblowsky, Heinz-Jurgen; Stetter, Jorg; Eue, Ludwig; Schmidt, Robert R.; and Santel, Hans-Joachim, 4,636,245, Cl. 71-90.000.

Wunderlich, Klaus; Harms, Wolfgang; Herd, Karl J.; and Jager, Horst, 4,665,179, Cl. 544-76.000.

- Zecher, Wilfried; Reinking, Klaus; and Kleiner, Frank, 4,640,970, Cl. 528-73.000.
- Ziemann, Heinz; and Mohrmann, Karl-Heinrich, 4,661,640, C 568-308.000.

Bayer, Arthur C.: *See—*

- Storey, Robson F.; Dantiki, Sudhakar; Hogue, Melissa L.; and Bayer, Arthur C., 4,666,978, Cl. 525-35.000.

Bayer, Dean M.; McCoy, Larry J.; Thomason, Chris A.; Tranbarger, Thomas P.; and Rodriguez, Marco E., to General Motors Corporation. Hard bar bumper for vehicles. 4,679,837, 7-14-87, C 293-102.000.

Bayer, Eric W., to General Electric Company. High-temperature laminated insulating member. 4,698,277, 10-6-87, Cl. 428-141.000.

Bayer, Helmut, to Electrovac, Fabrikation Elektrotechnischer Spezialartikel GmbH. Thermal switch. 4,646,054, 2-24-87, Cl. 337-348.00

Bayer, Horst O.; and Swithenbank, Colin, to Rohm and Haas Company. Herbicidal 4-trifluoromethyl-4-nitrodiphenyl ethers. 4,662,935, 5-5-87, Cl. 71-121.000.

Bayer, Izhak; and Adoram, Amnon. Endoscope particularly useful as a andscope. 4,690,132, 9-1-87, Cl. 128-4.000.

Bayer, Karl: *See—*

- Andra, Wolfhart; Bayer, Karl; Beyer, Erwin; and Andra, Hans-Peter, 4,687,182, Cl. 254-93.00R.

Bayer, Michael, to Bayer Aktiengesellschaft. Tube-shaped container. 4,688,703, 8-25-87, Cl. 222-541.000.

Bayer, Oswald; Grehn, Martin; and Planek, Werner, to FAG Kugelfischer Georg Schafer (KGaA). Cage for lipless roller bearings. 4,714,358, 12-22-87, Cl. 384-470.000.

Bayer, Paul: *See—*

- Riley, Paul E.; Ray, Alan B.; and Bayer, Paul, 4,676,868, C 156-643.000.

Bayer, Peter: *See—*

- Dick, Michael; Zechmair, Wilhelm; and Bayer, Peter, 4,667,452, C 52-650.000.

Bayer, Robert T., to American Threshold Industries, Inc. Flood water containment bag. 4,650,368, 3-17-87, Cl. 405-111.000.

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- Bonisch, Heinz-Jurgen; Brandl, Gerhard; Noor, Sybille; Oehling, Karl-Heinz; Riedl, Walter; Theissen, Mario; Wodiczka, Ernst; and Macht, Alwin, 4,691,670, Cl. 123-52.0MF.
- Cigdem, Saffet; Lichnofsky, Rudiger; and Martin, Harry, 4,683,99 Cl. 192-58.00C.
- Gartner, Jurij, 4,647,012, Cl. 251-148.000.
- Hagen, Hans, 4,700,424, Cl. 15-250.040.
- Klausnitzer, Herbert; Berndt, Wolfgang; and Luber, Josef, 4,649,742, Cl. 73-117.000.
- Matschinsky, Wolfgang, 4,664,412, Cl. 280-771.000.
- Matschinsky, Wolfgang; Sautter, Wolfgang; Strasser, Ludwig; and Mueller, Rudolf, 4,671,532, Cl. 280-701.000.
- Salzer, Lorenz, 4,649,885, Cl. 123-492.000.
- Sautter, Wolfgang, 4,653,772, Cl. 280-666.000.
- Sautter, Wolfgang, 4,655,471, Cl. 280-666.000.
- Sautter, Wolfgang; Strasser, Ludwig; and Mueller, Rudolf, 4,671,531, Cl. 280-690.000.
- Seidl, Jiri, 4,711,203, Cl. 123-90.340.
- Stamm, Wolfgang; and Konig, Dieter, 4,712,289, Cl. 29-568.000.
- Weishaupt, Walter; Tigges, Michael; and Proske, Arnost, 4,652,86 Cl. 340-539.000.
- Weishaupt, Walter, 4,684,896, Cl. 324-399.000.

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- Distel, Robert; and Kugland, Peter, 4,698,966, Cl. 60-274.000.

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- Schmid, Anton; Tauschek, Georg; Sedlmeier, Andreas; and Pollok, Peter, 4,700,446, Cl. 29-159.200.

Bayerlein, Friedrich; Habereder, Peter-Paul; Keramaris, Nikolaos; Kottmair, Nikolaus; and Kuhn, Manfred. Method for the preparation of borate-containing, dispersible, water-soluble polygalactomannans. 4,645,833, 2-24-87, Cl. 536-17.100.

Bayerlein, Friedrich; Kuhn, Manfred; and Maton, Michel, to Diamalt Aktiengesellschaft. Gelling agents and thickeners based on Cassia-galactomannans. 4,661,475, 4-28-87, Cl. 514-54.000.

Bayes, Michael G.; and Coulthard, Walter, to British Aerospace PLC and Marwin Production Machines Limited. Machine tools. 4,654,954, 4-7-87, Cl. 29-568.000.

Bayh, Russell I., III, to Otis Engineering Corporation. Burner. 4,655,706, 4-7-87, Cl. 431-187.000.

Bayha, Heiner; Kluge, Hermann; and Rachner, Horst, to SWF Auto-Electric GmbH. System for supplying fuel including protection against electrolytic corrosion. 4,694,211, 9-15-87, Cl. 310-71.000.

Bayha, Kurt; and Weyl, Helmut, to Robert Bosch GmbH. Internally heated oxygen sensor, particularly for use with internal combustion engines. 4,636,293, 1-13-87, Cl. 204-428.000.

Bayles, Peter W.: *See—*

- Wilson, Peter H.; and Bayles, Peter W., 4,668,855, Cl. 219-370.000.

Bayless, Allan V.: *See—*

- Moorehead, Thomas J.; and Bayless, Allan V., 4,668,667, Cl. 514-89.000.

Bayless, Gary L.; and Amaya, Armando, to Amaya, Armando; and Harben, Vertner H., III. Display and street sign assembly having multi display faces. 4,662,096, 5-5-87, Cl. 40-607.000.

Bayless, James D. Car washing mitt. 4,696,593, 9-29-87, Cl. 401-7.000.

Bayless, John H.; Steinberg, Neil I.; and Thirtle, James H., to Du Pont de Nemours, E. I., and Company. Distortion resistant polyester support for use as a phototool. 4,645,731, 2-24-87, Cl. 430-271.000.

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Baylina, Elisa G.: *See—*
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Bayliner Marine Corporation: *See—*
  Flowers, John P., 4,633,803, Cl. 116-334.000.

Bayliss, Jack B., Sr., to Celanese Corporation. Methods and apparatus for lubricating a cheek plate of a textile crimping mechanism. 4,662,042, 5-5-87, Cl. 28-269.000.

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  Appel, Stanley H., 4,699,875, Cl. 435-4.000.
  Appel, Stanley H., 4,701,407, Cl. 435-4.000.
  Demer, Linda L.; Jain, Avanindra; Raizner, Albert E.; and Hartley, Craig J., 4,651,738, Cl. 128-344.000.
  Emery, Jared M.; and Chan, Raymond Y., 4,657,930, Cl. 514-557.000.
  Garson, Arthur, Jr., 4,712,554, Cl. 128-419.0PG.
  Kit, Malon; and Kit, Saul, 4,703,011, Cl. 435-236.000.
  Kit, Malon; and Kit, Saul, 4,711,850, Cl. 435-235.000.
  Knight, Jack V.; and Wilson, Samuel Z., Jr., 4,649,911, Cl. 128-200.210.
  Sheng, Hwai-Ping; Garza, Cutberto; Winter, Dean C.; and Deskins, William G., 4,640,130, Cl. 73-579.000.

Bayly, Robert M.: *See—*
  Carpenter, Charles T.; and Bayly, Robert M., 4,669,516, Cl. 144-241.000.

Baynes, Jerre E.; and Knepple, Nick L., to American Telephone and Telegraph Company, AT&T Technologies Inc. Multiple contact switch. 4,672,158, 6-9-87, Cl. 200-283.000.

Baynes, Martin J., to Fairchild Semiconductor Corporation. Distributed field effect transistor structure. 4,636,825, 1-13-87, Cl. 357-23.140.

Baynes, William R.; and Merrick, Richard H., to Turco Incorporated Company. Barbecue grill with uniformly-heated heating chamber. 4,676,221, 6-30-87, Cl. 126-41.00R.

Bayol, Alain; Lansen, Jacqueline; Maffrand, Jean P.; Pereillo, Jean-Marie; and Vallee, Eric, to Sanofi S.A. Xylane sulfates, process for their preparation, and anti-thrombosis and hypolipemic activity thereof. 4,699,900, 10-13-87, Cl. 514-54.000.

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Bayraktaroglu, Burhan, to Texas Instruments Incorporated. Monolithic microwave diodes. 4,673,958, 6-16-87, Cl. 357-13.000.

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  Thurner, Helmut, 4,665,785, Cl. 83-98.000.

Bayruns, Robert J.; and Weston, Harry T., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Self-correcting frequency dividers. 4,691,331, 9-1-87, Cl. 377-47.000.

Bays, David E.; Webb, Colin F.; and Dowle, Michael D., to Glaxo Group Limited. Indole-5-acetamides for treatment of migraine. 4,650,810, 3-17-87, Cl. 514-415.000.

Bays, David E.: *See—*
  Clitherow, John W.; Bradshaw, John; Mackinnon, John W. M.; Judd, Duncan B.; Bays, David E.; Hayes, Roger; and Pearce, Andrew, 4,670,448, Cl. 514-334.000.
  Coates, Ian H.; Mills, Keith; Webb, Colin F.; Dowle, Michael D.; and Bays, David E., 4,636,521, Cl. 514-415.000.
  Coates, Ian H.; Mills, Keith; Webb, Colin F.; Dowle, Michael D.; and Bays, David E., 4,672,067, Cl. 514-323.000.

Bays, F. Barry, to Concept, Inc. Vacuum sleeve for a surgical appliance. 4,644,951, 2-24-87, Cl. 128-305.000.

Bays, F. Barry; Dunn, Richard L.; Marchand, Sam; and Treharne, Richard W., III, to Richards Medical Company. Biodegradable prosthetic device. 4,650,488, 3-17-87, Cl. 623-12.000.

Bayuk, Robert. Adjustable shelf assembly. 4,674,723, 6-23-87, Cl. 248-246.000.

Bazan, Alberto; and Murphy, Donald M. Anti-stall ball-check valve. 4,646,783, 3-3-87, Cl. 137-533.110.

Bazan, Alberto; and Murphy, Donald M. Dual diaphragm pump. 4,708,601, 11-24-87, Cl. 417-393.000.

Bazan, Mary: *See—*
  Miller, Jule A.; Bazan, Mary; and Bessette, Gerard E., 4,658,110, Cl. 219-121.0LC.

Bazeley, Graham A.: *See—*
  Mather, Graham W.; Warwick, Graham R.; and Bazeley, Graham A., 4,714,268, Cl. 280-646.000.

Bazell, Seymour: *See—*
  Goldberg, Edward M.; and Bazell, Seymour, 4,648,870, Cl. 604-135.000.
  Goldberg, Edward M.; and Bazell, Seymour, 4,664,660, Cl. 604-321.000.

Bazes, Mel, to Intel Corporation. Binomially-encoded finite state machine. 4,675,556, 6-23-87, Cl. 307-465.000.

Bazilio, Rayman E.; Hartz, James F.; and Uliana, Anthony R., to General Motors Corporation. Hydrodynamic retarder with a centrifugal accumulator. 4,711,328, 12-8-87, Cl. 188-296.000.

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  Hartz, James F.; Bazilio, Rayman E.; and Ferguson, Michael R., 4,687,071, Cl. 180-9.100.

Baziuk, Slawko M. Head for cleaning the interior of a pipe. 4,699,163, 10-13-87, Cl. 134-167.00C.

Bazzi, Ali A.: *See—*
  Dunski, Neil; Bazzi, Ali A.; and Buehler, Henry J., 4,634,728, Cl. 524-219.000.
  Dunski, Neil; Bazzi, Ali A.; and Buehler, Henry J., 4,680,325, Cl. 524-101.000.

Bazzi, Giuseppe B.: *See—*
  Valsecchi, Carlo; Piatti, Franco; and Bazzi, Giuseppe B., 4,683,620, Cl. 24-71.0SK.

Bazzo, Richard J.: *See—*
  Shute, Alan B.; Suchovsky, Carl W.; and Bazzo, Richard J., 4,655,705, Cl. 431-78.000.

BBC Aktiengesellschaft Brown, Boveri & Cie: *See—*
  Dustmann, Cord-Henrich, 4,688,132, Cl. 361-19.000.
  Nicoll, Andrew R.; and Singheiser, Lorenz, 4,675,204, Cl. 427-35.000.
  Westbrock, Paul; and Peitz, Theo, 4,678,876, Cl. 200-148.00R.

BBC Aktiengesellschaft Brown, Boverie & Cie: *See—*
  Koerner, Gerhard; Hahn, Walter; and Plettner, Horst, 4,654,492, Cl. 200-153.00P.

BBC Brown, Boveri & Company, Limited: *See—*
  Albrecht, Joachim; and Duerig, Thomas, 4,637,962, Cl. 428-616.000.
  Altmann, Karel; Mayer, Andreas; and Perevuznik, Josef, 4,662,342, Cl. 123-559.000.
  Amstutz, Hermann; Heimgartner, Dieter; Kaufmann, Meinolph; and Scheffer, Terry J., 4,634,229, Cl. 350-346.000.
  Amstutz, Hermann; Heimgartner, Dieter; Kaufman, Meinolph; and Scheffer, Terry J., 4,697,884, Cl. 350-334.000.
  Amstutz, Hermann; Kaufmann, Meinolph; Nehring, Jurgen; and Scheffer, Terry J., 4,705,359, Cl. 350-341.000.
  Ari, Niyazi; and Linhofer, Gerhard, 4,661,763, Cl. 323-215.000.
  Ari, Niyazi; Hansen, Diethard; Hoitink, Hendrik; and Schar, Hans, 4,672,523, Cl. 363-50.000.
  Beer, Hans-Rudolf; Britsch, Helmut; Hirth, Michael; Kaiser, Tony; and Kogelschatz, Ulrich, 4,650,648, Cl. 422-186.070.
  Bischofberger, Walter; Eicholzer, Heinz; and Talir, Jiri, 4,636,599, Cl. 200-144.0AP.
  Bischofberger, Walter; Eichholzer, Heinz; Graber, Werner; Talir, Jiri; Hochspach, Edgar; and Luthi, Werner, 4,670,632, Cl. 200-144.0AP.
  Blahous, Leopold; and Linhofer, Gerhard, 4,710,735, Cl. 333-175.000.
  Brem, Ernst, 4,634,909, Cl. 310-91.000.
  Brem, Ernst; and Merki, Josef, 4,638,199, Cl. 310-91.000.
  Brem, Ernst, 4,642,499, Cl. 310-89.000.
  Buchmuller, Reino; and Weissenborn, Bernd, 4,702,553, Cl. 350-96.290.
  Buhler, Karl, 4,637,033, Cl. 373-72.000.
  Buhler, Karl; and Menth, Anton, 4,715,041, Cl. 373-72.000.
  Canay, Muzaffer, 4,695,939, Cl. 363-39.000.
  Dahler, Peter; Neidhart, Peter; Sadek, Kadry; and Stemmler, Herbert, 4,639,846, Cl. 363-39.000.
  Dobler, Thomas, 4,639,077, Cl. 350-96.200.
  Duerig, Thomas; Escudier, Marcel; and Keller, Jakob, 4,640,806, Cl. 264-9.000.
  Faber, Guy; and Kuhnen, Gottfried, 4,710,103, Cl. 416-219.00R.
  Frutschi, Hansulrich, 4,686,822, Cl. 60-39.020.
  Furrer, Andreas, 4,646,359, Cl. 455-108.000.
  Gautschi, Max, 4,656,440, Cl. 332-45.000.
  Gessinger, Gernot; Sebalj, Renata; and Widl, Wolfgang, 4,707,576, Cl. 200-146.00R.
  Gloor, Kurt, 4,699,569, Cl. 416-191.000.
  Gloor, Urs; Hirth, Michael; and Kogelschatz, Ulrich, 4,654,199, Cl. 422-186.190.
  Gloor, Urs; Hirth, Michael; and Kogelschatz, Ulrich, 4,693,870, Cl. 422-186.190.
  Gobrecht, Jens; and Rossinelli, Marco, 4,634,495, Cl. 156-643.000.
  Guth, Gerhard; Kuhn, Walter; Linhofer, Gerhard; and Sadek, Kadry, 4,689,733, Cl. 363-51.000.
  Guttinger, Heinrich, 4,715,797, Cl. 418-55.000.
  Haditsch, Werner, 4,701,648, Cl. 310-61.000.
  Hager, Helmut; Kopainsky, Jurgen; and Zwahlen, Kurt, 4,689,708, Cl. 361-65.000.
  Heiniger, Peter; Masek, Jaroslav; and Senn, Herbert, 4,642,025, Cl. 415-139.000.
  Hellat, Jaan; and Keller, Jakob, 4,679,393, Cl. 60-39.450.
  Hellat, Jaan; and Keller, Jakob, 4,695,225, Cl. 415-189.000.
  Herzog, Kurt; and Schuler, Roland, 4,704,787, Cl. 29-596.000.
  Hirth, Michael, 4,690,803, Cl. 422-186.180.
  Horler, Hansulrich, 4,648,790, Cl. 415-112.000.
  Horvath, Imre, 4,677,265, Cl. 200-148.00B.
  Horvath, Imre; Niemeyer, Lutz; and Widl, Wolfgang, 4,689,453, Cl. 200-148.00B.
  Ischi, Jurg, 4,665,288, Cl. 200-147.00R.
  Ischi, Jurg; and Plessl, Andreas, 4,675,484, Cl. 200-146.00R.
  Jenny, Ernst, 4,702,075, Cl. 60-274.000.
  Kaufmann, Felix; and Schillinger, Daniel, 4,710,863, Cl. 364-146.000.
  Keller, Jakob, 4,665,714, Cl. 62-401.000.
  Keser, Helmut, 4,650,107, Cl. 228-123.000.
  Koppl, Georg, 4,663,691, Cl. 361-65.000.

Kreitmeier, Franz, 4,648,791, Cl. 415-116.000.

Kuhn, Albert; and Muller, Reinhard, 4,655,930, Cl. 210-668.000.

Kuhnlein, Klaus, 4,637,587, Cl. 251-29.000.

Lang, Ernst, 4,689,734, Cl. 363-59.000.

Linsi, Ulrich, 4,655,038, Cl. 60-602.000.

Maier, Franz, 4,667,262, Cl. 361-42.000.

Maschek, Martin; and Mastner, Georg, 4,656,554, Cl. 361-56.000.

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Mayer, Andreas, 4,659,348, Cl. 55-320.000.

Meyer, Gundolf; and Verpoort, Clemeens, 4,706,361, Cl. 29-423.000.

Mosele, Joseph, 4,686,603, Cl. 361-118.000.

Munzinger, Karl; Peter, Jorg; Plessl, Andreas; Poole, Denis; and Vit, Jan G., 4,689,717, Cl. 361-335.000.

Munzinger, Karl; and Pinnekamp, Friedrich, 4,700,270, Cl. 361-341.000.

Nazmy, Mohamed Y., 4,676,843, Cl. 148-11.50N.

Niemeyer, Lutz, 4,684,773, Cl. 200-148.00R.

Rey, Antoine; and Stemmler, Herbert, 4,680,531, Cl. 323-206.000.

Roggwiller, Peter; and Sittig, Roland, 4,642,669, Cl. 357-52.000.

Schade, Ekkehard, 4,652,709, Cl. 200-148.00R.

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Schollhorn, Karl, 4,634,910, Cl. 310-214.000.

Schwarz, Hans, 4,650,396, Cl. 415-128.000.

Stemmler, Herbert, 4,647,837, Cl. 323-207.000.

Umbricht, Stefan, 4,703,411, Cl. 363-57.000.

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Guinn, William H., Jr.; Corbett, Richard M.; Bundy, Robert S.; Seaman, Jeffrey M.; Duncan, Keith B.; and Link, Charles M., II, 4,642,425, Cl. 379-57.000.

BCD Dryers, Inc.: *See—*

Behrens, Rudolph, 4,689,893, Cl. 34-23.000.

BCIRA: *See—*

Hayes, Peter R., 4,678,020, Cl. 164-16.000.

bd Systems Inc.: *See—*

Butts, J. James, Jr.; and Howard, Don R., 4,709,580, Cl. 73-178.00R.

BDC Electronics: *See—*

Buck, Robert H.; Cowan, Kent G.; Doughty, John P.; and Marshall, Stephen E., 4,688,021, Cl. 340-521.000.

Be, Anh: *See—*

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Beach, David E., to Eastman Kodak Company. Apparatus and method for identifying a film cartridge used in a particular type camera. 4,678,300, 7-7-87, Cl. 354-21.000.

Beach, David L.; and Kissin, Yury V., to Chevron Research Company. Oligomerization of ethylene using nickel ylide/alkyl aluminum alkoxide catalyst. 4,686,315, 8-11-87, Cl. 585-513.000.

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Beach, Sidney C.; and Fellman, Jack D., to McGean-Rohco, Inc. Method of plating plastics. 4,673,469, 6-16-87, Cl. 204-38.400.

Beach, Stanley H., to Maytag Company, The. Gas distribution system for a range. 4,705,018, 11-10-87, Cl. 126-39.00N.

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Beachboard, Stephen A. Zoned heating and air conditioning system. 4,673,029, 6-16-87, Cl. 165-22.000.

Beachey, Edwin H.; Tartar, Andre; Gras-Masse, Helene; Jolivet, Michel; Audibert, Francoise; and Chedid, Louis, to University of Tennessee Research Corp. Synthetic peptide compounds. 4,695,562, 9-22-87, Cl. 514-13.000.

Beachey, Edwin H., to University of Tennessee Research Corporation, The. Synthetic M proteins - streptococci type 6. 4,705,684, 11-10-87, Cl. 424-88.000.

Beachley, Orville T., Jr., to Research Foundation of State University of New York, The. Bisneopentyl alkyl organometallic compounds and methods of preparing same. 4,710,575, 12-1-87, Cl. 556-1.000.

Beacon Electric, Inc.: *See—*

Levy, George D., 4,660,919, Cl. 339-99.00L.

Beacon, Robert G.: *See—*

Holloway, Robert M.; Ludington, Robert L.; and Beacon, Robert G., 4,646,882, Cl. 188-202.000.

Bead Chain Manufacturing Company: *See—*

Terita, Robert S., 4,681,392, Cl. 439-751.000.

Beadles, Robert L.: *See—*

Pekar, Jaroslaw; and Beadles, Robert L., 4,704,000, Cl. 350-145.000.

Beaird, Claudette. Facial contouring mask. 4,658,811, 4-21-87, Cl. 128-163.000.

Beakes, John M.; and Finegold, Hyman B., to Statomat-Globe, Inc. Lamination stack selection method and apparatus. 4,710,085, 12-1-87, Cl. 414-27.000.

Beal, Charles B.; Fields, C. Bruce; and Stewart, David L., to International Health Services. Device for drawing and processing blood and for administering liquid via parenteral injection. 4,645,486, 2-24-87, Cl. 604-4.000.

Beal, Daniel: *See—*

Joliot, A. Pierre; and Beal, Daniel, 4,696,570, Cl. 356-319.000.

Beal, James L. Camper-truck assembly and mounting hardware. 4,648,649, 3-10-87, Cl. 296-156.000.

Beal, Loren D. Clamp chuck. 4,679,802, 7-14-87, Cl. 279-106.000.

Beal, Roy E., to Copper Development Association, Inc. Soldering compositions, fluxes and methods of use. 4,647,308, 3-3-87, Cl. 106-1.120.

Beale, Andrew W.: *See—*

Whittaker, Bruce E.; Jeppesen, James H., III; and Beale, Andrew W., 4,658,353, Cl. 364-200.000.

Beale, Harry A., to Battelle Development Corporation. Cubic boron nitride preparation utilizing a boron and nitrogen bearing gas. 4,655,893, 4-7-87, Cl. 204-192.150.

Beale, Harry A. Glass having controllable infrared transmission. 4,684,575, 8-4-87, Cl. 428-434.000.

Beale, Harry A., to Applied Coatings International, Inc. Method of coating a substrate. 4,687,679, 8-18-87, Cl. 427-38.000.

Beale, Harry A. Glass having controllable infrared transmission. 4,707,412, 11-17-87, Cl. 428-432.000.

Beale International Technology Limited: *See—*

Beale, Nicholas C. L.; Rushbrooke, Roger W.; and Gladstone, Philip J. S., 4,709,365, Cl. 371-11.000.

Beale, Michael C.; and Kashy, David H., to Newport News Shipbuilding and Dry Dock Company. Muffler for gas inducting machinery generating low frequency noise. 4,693,339, 9-15-87, Cl. 181-255.000.

Beale, Nicholas C. L.; Rushbrooke, Roger W.; and Gladstone, Philip J. S., to Beale International Technology Limited. Data transmission system and method. 4,709,365, 11-24-87, Cl. 371-11.000.

Beale, Robert B., to United States of America, Air Force. Electronically compensated pressure dilution demand regulator. 4,648,39 3-10-87, Cl. 128-205.110.

Beale, Robert B., to United States of America, Air Force. Electromechanical oxygen regulator valve assembly. 4,658,858, 4-21-87, Cl. 137-606.000.

Beales, Keith J.: *See—*

Ainslie, Benjamin J.; Day, Clive R.; and Beales, Keith J., 4,675,0 Cl. 65-3.120.

Beall, Frank C., to Weyerhaeuser Company. Vertical progressive lumber dryer. 4,663,860, 5-12-87, Cl. 34-13.400.

Beall, Gary W., to Radecca, Inc. Method of immobilizing organic contaminants to form non-flowable matrix therefrom. 4,650,59 3-17-87, Cl. 210-691.000.

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Tso, Su C.; Beall, Gary W.; and Holthouser, Mary C., 4,677,158, Cl. 524-789.000.

Beall, George H.; and MacDowell, John F., to Corning Glass Works. Hydrogen-containing glass microfoams and gas-ceramics. 4,666,867, 5-19-87, Cl. 501-5.000.

Beall, George H., to Corning Glass Works. Refractory glass-ceramics containing enstatite. 4,687,749, 8-18-87, Cl. 501-5.000.

Beall, Harry C. Medical apparatus method for assessing the severity of certain skin traumas. 4,693,255, 9-15-87, Cl. 128-654.000.

Beals, Michael. Stand for motorized snow vehicle or the like. 4,643,396, 2-17-87, Cl. 254-116.000.

Beam, Dennis: *See—*

Sarazen, Paul M., Jr.; and Beam, Dennis, 4,669,371, Cl. 98-29.000.

Beam, Dennis A.: *See—*

Sarazen, Paul M., Jr.; and Beam, Dennis A., 4,715,532, Cl. 236-49.000.

Beam, Jerry E., to United States of America, Air Force. Heat pipe wick. 4,674,565, 6-23-87, Cl. 165-104.260.

Beam, John W.; and Paquette, Edmund T., to Wright Line, Inc. Decorative sound absorbing panel for furniture. 4,701,066, 10-20-87, Cl. 403-298.000.

Beamenderfer, Robert E.: *See—*

Althouse, Rickie M.; Beamenderfer, Robert E.; Durbin, Roger; Hollyday, Robert D.; and Kling, John P., 4,641,907, Cl. 33 147.00R.

Beamer, Ralph R. Portable miter device for chain and hand saws. 4,685,369, 8-11-87, Cl. 83-766.000.

Bean, David B.; and Fanson, Richard L., to Whirlpool Corporation. Automatic washer balancing ring with spring clip attachment means. 4,656,847, 4-14-87, Cl. 68-23.200.

Bean, Edward. Bicycle wheel safety attachment. 4,648,694, 3-10-87, Cl. 350-99.000.

Bean, Eric S.: *See—*

Vodian, Morton A.; and Bean, Eric S., 4,703,001, Cl. 435-5.000.

Bean, John C.; and Ourmazd, Abbas, to American Telephone and Telegraph Company, AT&T Bell Laboratories. Device using ordered semiconductor alloy. 4,661,829, 4-28-87, Cl. 357-30.000.

Bean, John C., to American Telephone and Telegraph Company AT&T Bell Laboratories. Apparatus for simultaneous molecular beam deposition on a plurality of substrates. 4,681,773, 7-21-87, Cl. 427-38.000.

Bean, John H.: *See—*

Krauter, Allan I.; Cope, Fred C.; and Bean, John H., 4,649,904, Cl. 128-6.000.

Bean, Kenneth E., to Texas Instruments Incorporated. Three dimensional structures of active and passive semiconductor components. 4,663,648, 5-5-87, Cl. 357-55.000.

Bean, Lloyd F.; Forbes, Richard L., II; Swift, Joseph A.; and Thorp, Bruce E., to Xerox Corporation. Brush end seals for blade cleaner housing. 4,681,426, 7-21-87, Cl. 355-15.000.

Bean, Robert: *See—*

Fava, Thomas F.; Bean, Robert; Lary, Richard F.; and Blackledge, Robert, 4,648,035, Cl. 364-200.000.

Bear, Gerald. Order handling sheet and method. 4,664,418, 5-12-87, Cl. 283-67.000.

Bear Island Paper Company: *See—*

Beaulieu, Serge B., 4,708,771, Cl. 162-83.000.

Bear, Mark P., and Schneider, F. Howard, to Bioassy Systems Corporation. Vertical culture system with removable culture unit. 4,670,396, 6-2-87, Cl. 435-285.000.

Bear Medical Systems, Inc.: *See—*

Chaoui, Samir M., 4,702,240, Cl. 128-204.180.

Bear, Richard W., to Epsco, Inc. Preformed soffits for interior construction. 4,704,833, 11-10-87, Cl. 52-309.200.

Bearce, Jerry S.: *See—*

Bearce, Ronald H., Jr.; Bearce, Jerry S.; and Jones, David C., 4,674,220, Cl. 43-4.000.

Bearce, Ronald H., Jr.; Bearce, Jerry S.; and Jones, David C. Bait threader. 4,674,220, 6-23-87, Cl. 43-4.000.

Beard, Charles D.: *See—*

Dunks, Gary B.; Yamada, Akira; Beard, Charles D.; and Doddi, Namassivaya, 4,715,234, Cl. 548-259.000.

Beard, Dennis J., to Vernay Laboratories, Inc. Method for making and applying rotor bands. 4,661,183, 4-28-87, Cl. 156-172.000.

Beard, Donna. Versatile bathing suit. 4,656,669, 4-14-87, Cl. 2-67.000.

Beard, Frank A., Jr. Hydraulic control system for simultaneous application of brakes of towing and towed vehicles with equal intensity. 4,635,758, 1-13-87, Cl. 188-3.00H.

Beard, Harold J., and Cox, Raleigh L. Filter for intra-channel clarification. 4,634,528, 1-6-87, Cl. 210-277.000.

Beard, James R., to Sea Hawk Corporation. Reinforced support structure for upright highway marker. 4,645,168, 2-24-87, Cl. 248-548.000.

Beard, Lloyd R., to A. B. Chance Company. Fuse well and housing for pad-mounted, double fused switchgear. 4,688,143, 8-18-87, Cl. 361-335.000.

Beard, Michael D., to Herman Miller, Inc. Antidislodgement clips. 4,671,481, 6-9-87, Cl. 248-222.100.

Beard, Richard C.: *See—*

Cherveny, Vincent J.; Miller, Frederick W., III; Beard, Richard C.; Waibel, Terry J.; and Scherer, Jean C., 4,649,976, Cl. 152-209.00R.

Beard, Robert W., to Oximetrix, Inc. Combination surgical scalpel and electrosurgical instrument. 4,640,279, 2-3-87, Cl. 128-303.140.

Beard, Robert W., to Oximetrix, Inc. Optical coupling. 4,690,492, 9-1-87, Cl. 350-96.200.

Beard, Terry D. Low noise and distortion FM transmission system and method. 4,704,727, 11-3-87, Cl. 381-13.000.

Beard, Terry D. 3-D method and apparatus. 4,705,371, 11-10-87, Cl. 352-86.000.

Beard, Thomas W.; Pople, John R.; and Wright, Terence D., to Vickers Shipbuilding & Engineering Limited. Portable hazard warning apparatus. 4,668,940, 5-26-87, Cl. 340-521.000.

Beard, William J.: *See—*

Sonne, Darrell S.; and Beard, William J., 4,638,158, Cl. 250-266.000.

Bearden, Francis H.: *See—*

Haacke, E. Mark; and Bearden, Francis H., 4,678,996, Cl. 324-309.000.

Bearden, Joe M., to Texaco Inc. Seismic exploration system improvement. 4,635,235, 1-6-87, Cl. 367-13.000.

Bearden, John L.: *See—*

Vandevier, Joseph E.; Bearden, John L.; Prangez, William F.; and Miller, Harold L., 4,678,399, Cl. 415-199.200.

Bearden, Roby, Jr., and Aldridge, Clyde L., to Exxon Research & Engineering Co. Hydrocracking with phosphomolybdic acid and phosphoric acid. 4,637,870, 1-20-87, Cl. 208-112.000.

Bearden, Roby, Jr.; and Aldridge, Clyde L., to Exxon Research & Engineering Co. Hydrocracking with aqueous phosphomolybdic acid. 4,637,871, 1-20-87, Cl. 208-112.000.

Beardmore, Geoffrey; and Capaldi, Nicholas R. Gyroscope apparatus. 4,633,722, 1-6-87, Cl. 74-5.460.

Beardow, Terence, to BVT Limited. Apparatus for sputter coating discs. 4,701,251, 10-20-87, Cl. 204-298.000.

Beardsley, George P.: *See—*

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Beardsley, Robert A., to Viskase Corporation. End closure for shirred casing sticks. 4,693,280, 9-15-87, Cl. 138-118.100.

Beare, Eric: *See—*

Fisherman, Carl; and Beare, Eric, 4,680,681, Cl. 362-98.000.

Bearss, James G.; Chan, C. S.; and Meyer, Wesley L., to Hewlett-Packard Company. Compound bore nozzle for ink jet printhead and method of manufacture. 4,675,083, 6-23-87, Cl. 204-11.000.

Bearss, James G.: *See—*

Hackleman, David E.; Bearss, James G.; and Bhaskar, Eldurkar V., 4,695,853, Cl. 346-140.00R.

Beasley, James E.; and Lindsey, Steven M., to Hughes Aircraft Company. Bi-directional current switch. 4,698,521, 10-6-87, Cl. 307-270.000.

Beasley, James P., to U.S. Philips Corporation. Charged particle beam apparatus. 4,701,623, 10-20-87, Cl. 250-492.200.

Beasley, Larry M.: *See—*

Yarbrough, Thomas R.; and Beasley, Larry M., 4,700,132, Cl. 324-158.00F.

Beasley, Michael W., to Unisys Corp. Minimum latency tie-breaking arbitration logic circuitry. 4,682,282, 7-21-87, Cl. 364-200.000.

Beasley, Robert W. Method of making life-like prosthetic devices. 4,661,187, 4-28-87, Cl. 156-242.000.

Beasly, Kevin G.: *See—*

Seubert, John G.; Beasly, Kevin G.; Herold, Stanley J.; and Laswell, John E., 4,674,407, Cl. 102-293.000.

Beasom, James D., to Harris Corporation. Conductivity modulated semiconductor structure. 4,694,313, 9-15-87, Cl. 357-23.400.

Beasom, James D., to Harris Corporation. Structure for high breakdown PN diode with relatively high surface doping. 4,713,681, 12-15-87, Cl. 357-52.000.

Beaton, William I.; Hensley, Albert L.; and Evans, April J., to Amoco Corporation. Process for demetallation and desulfurization of heavy hydrocarbons. 4,657,665, 4-14-87, Cl. 208-216.00R.

Beaton, William I.; Hensley, Albert L.; and Evans, April J., to Amoco Corporation. Catalyst for demetallation and desulfurization of heavy hydrocarbons. 4,707,466, 11-17-87, Cl. 502-313.000.

Beatrice, Angelo: *See—*

Filippi, Renato; and Beatrice, Angelo, 4,651,779, Cl. 137-493.300.

Beatrice Companies, Inc.: *See—*

Valle, Louis G.; Luoto, Donald W.; and Voss, Robert J., 4,676,292, Cl. 160-176.00R.

Beatrice Foods: *See—*

Valle, Louis G.; and Voss, Robert J., 4,651,795, Cl. 160-178.00C.

Beattie, Joanne L.: *See—*

Cole, William M.; Fenske, Steven L.; Serbin, David J.; Malani, Shrikant R.; Clark, Frank J.; and Beattie, Joanne L., 4,681,929, Cl. 528-493.000.

Beattie, Morris J. V.: *See—*

Raudsepp, Rein; Peters, Ernest; and Beattie, Morris J. V., 4,647,307, Cl. 75-118.00R.

Beattie, Patrick J., to John D. Brush & Co., Inc. Live bolt assembly for safe door. 4,683,732, 8-4-87, Cl. 70-118.000.

Beattie, Patrick J., to John D. Brush & Co., Inc. Safe door bushing. 4,691,544, 9-8-87, Cl. 70-329.000.

Beattie Systems, Inc.: *See—*

Sadre-Marandi, Ehsan; and Fox, Anthony G., 4,659,202, Cl. 354-152.000.

Beatty, Graydon E.: *See—*

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Beatty, Marguerite R. Electrically insulative staple. 4,697,045, 9-29-87, Cl. 174-159.000.

Beatty, Morgan L.; and Boettner, Wayne A., to Pfizer Inc. Long-acting matrix tablet formulations. 4,704,284, 11-3-87, Cl. 424-469.000.

Beatty, Paul: *See—*

VanderSyde, Gary L.; and Beatty, Paul, 4,669,716, Cl. 271-98.000.

Beatty, Ronald L.; and Wyman, Floyd H., to Atlantic Richfield Company. Continuous silicon carbide whisker production. 4,637,924, 1-20-87, Cl. 423-345.000.

Beatty, Theodore J. Barbecue grill. 4,683,867, 8-4-87, Cl. 126-41.00R.

Beaty, David W.: *See—*

Swapp, Mavin C.; and Beaty, David W., 4,704,735, Cl. 455-68.000.

Beaty, William G. Extendible hose assembly for service truck. 4,708,179, 11-24-87, Cl. 141-388.000.

Beaubien, Randall S.; and Erps, Lorri A., to Hughes Aircraft Company. Process for making a T-gated transistor. 4,700,462, 10-20-87, Cl. 437-187.000.

Beaucage, Serge L.: *See—*

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Beauchamp, Lilia M., to Burroughs Wellcome Co. Antiviral compounds. 4,714,701, 12-22-87, Cl. 514-258.000.

Beauchamp, Robert W.: *See—*

Veres, James E.; Stein, James B.; Beauchamp, Robert W.; Kimmens, Harold R.; Baird, David W.; Roman, Michael J.; Therrien, David G.; and Doyle, John J., 4,654,783, Cl. 364-200.000.

Beaudet, Paul R., to Westinghouse Electric Corp. CCD focal plane array convolver. 4,709,381, 11-24-87, Cl. 377-62.000.

Beaudoin, Laurent, to Iona Appliances Inc. Guide for a driven endless belt. 4,685,171, 8-11-87, Cl. 15-391.000.

Beauducel, Claude: *See—*

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Beauford, William; Spragg, Nicholas J.; and Millar, Malcolm, to Laporte Industries Limited. Production of shaped bodies of boron compounds. 4,661,157, 4-28-87, Cl. 106-18.130.

Beaufoy, Raymond, to Plessey Overseas Limited. Time slot arrangements for local area network systems. 4,697,263, 9-29-87, Cl. 370-85.000.

Beaulier, Daniel A., to Ampex Corporation. Method and apparatus for the extraction of luminance information from a video signal using a field store. 4,695,876, 9-22-87, Cl. 358-31.000.

Beaulieu, Andre R., to RCA Corporation. Apparatus for aligning a fiber and a device. 4,678,271, 7-7-87, Cl. 350-96.200.

Beaulieu, Bryan J. Support and attachment brace. 4,658,560, 4-21-87, Cl. 52-646.000.

Beaulieu, Serge B., to Bear Island Paper Company. Two stage process for sulfonating mechanical pulp fibers. 4,708,771, 11-24-87, Cl. 162-83.000.

Beaumont, Chritien J. M., to U.S. Philips Corporation. Nuclear magnetic resonance apparatus. 4,639,672, 1-27-87, Cl. 324-318.000.

Beaumont, Gregory J.; Duval, Casimir J.; Kula, Frank N.; and Tamkin, Michael S., to Zenith Electronics Corporation. Unitary CRT display assembly. 4,646,159, 2-24-87, Cl. 358-254.000.

Beaumont, Paul, to Grau Girling Limited. Air compressor with preloaded clutch. 4,648,805, 3-10-87, Cl. 417-223.000.

Beaumont, Richard J.: *See—*

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Beaupellet, Jean: *See—*

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Beaupere, Didier; and Helias, Guy, to Compagnie Industrielle des Lasers Cilas Alcatel. Gas laser generator. 4,677,638, 6-30-87, Cl. 372-87.000.

Beauregard, Robert, to Fortin, Roch, part interest to each; and Nizet, Pierre, part interest to each. Goal-keeper pad. 4,715,067, 12-29-87, Cl. 2-22.000.

Beauregard, William W.; and Fessenden, Peter J., to Springfield Wire, Inc. PTC heater and method of manufacture. 4 689,878, 9-1-87, Cl. 29-611.000.

Beausoleil, William F.; and McManigal, David F., to International Business Machines Corporation. Memory organization for vertical and horizontal vectors in a raster scan display system. 4,716,546, 12-29-87, Cl. 364-900.000.

Beauviala, Jean-Pierre; and Charras, Jean-Pierre, to Societe anonyme dite: AATON RG. Process and system for inscription of coded information on the marginal part of a perforated cinematographic film, and for reading this information. 4,659,198, 4-21-87, Cl. 352-92.000.

Beaven, Paul A.; Canton, Dave A.; Sargeant, Nick B.; and Snagge, Tom H., to International Business Machines Corporation. Display apparatus with mixed alphanumeric and graphic image. 4,686,521, 8-11-87, Cl. 340-703.000.

Beaver, Bud K. Caliper. 4,635,370, 1-13-87, Cl. 33-149.00R.

Beaver, Donald L., Jr.: *See—*

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Beaver, Lueretta. Portable shampoo, manicure, and washing apparatus. 4,660,233, 4-28-87, Cl. 4-516.000.

Beaver Machine Tool Sales Limited: *See—*

Balding, Victor H., 4,635,342, Cl. 29-568.000.

Beaver, Richard C., to American Electronics, Inc. Camera mounting bracket. 4,687,170, 8-18-87, Cl. 248-543.000.

Beaver, Richard N.; Morris, Gregory J. E.; Dang, Hiep D.; and Pimlott, John R., to Dow Chemical Company, The. Structural frame for a solid polymer electrolyte electrochemical cell. 4,666,579, 5-19-87, Cl. 204-253.000.

Beaver, Richard N.; Morris, Gregory J. E.; Dang, Hiep D.; and Pimlott, John R., to Dow Chemical Company, The. Structural frame for an electrochemical cell. 4,666,580, 5-19-87, Cl. 204-254.000.

Beaver, Richard N.; Morris, Gregory J.; Pimlott, John R.; and Dang, Hiep D., to Dow Chemical Company, The. Plastic electrochemical cell terminal unit. 4,690,748, 9-1-87, Cl. 204-279.000.

Beaver, Richard N.: *See—*

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Dang, Hiep D.; and Beaver, Richard N., 4,668,372, Cl. 204-279.000.

Morris, Gregory J. E.; Grosshandler, Sandor; Beaver, Richard N.; Pimlott, John R.; and Dang, Hiep D., 4,673,479, Cl. 204-279.000.

Pimlott, John R.; Beaver, Richard N.; Dang, Hiep D.; and Morris, Gregory J. E., 4,668,371, Cl. 204-253.000.

Pimlott, John R.; Beaver, Richard N.; Dang, Hiep D.; and Morris, Gregory J. E., 4,670,123, Cl. 204-279.000.

Beaver, Richard P., to PPG Industries, Inc. Packed fiber glass reaction vessel. 4,657,742, 4-14-87, Cl. 422-240.000.

Beaver, Richard P., to PPG Industries, Inc. Method of preparation of packed fiber glass reaction vessel. 4,715,105, 12-29-87, Cl. 29-419.00G.

Beaver, W. Hardey: *See—*

Babcock, Robert E.; Beaver, W. Hardey; and Wood, F. Dianne, 4,673,484, Cl. 208-435.000.

Beavers, Allan E., to T. A. Pelsue Company. Hub and strut-endcap assembly for tent frame struts. 4,637,748, 1-20-87, Cl. 403-170.000.

Beavers, Allan E., to T.A. Pelsue Company. Combination purging and ventilating blower. 4,662,268, 5-5-87, Cl. 98-39.100.

Beavers, Ellington M., to Universal High Technologies. Lens with hydrophilic coating. 4,663,233, 5-5-87, Cl. 428-412.000.

Beavers, Randy S.; McFarlane, Finley E.; Musser, Harry R.; and Shepherd, Freddie A., to Eastman Kodak Company. Laminated structures of polyethylene terephthalate and elastomeric copolyesterethers. 4,636,442, 1-13-87, Cl. 428-480.000.

Beavers, Randy S.; McFarlane, Finley E.; and Musser, Harry R., to Eastman Kodak Company. Copolyesterether bonding compositions and shaped articles utilizing the bonding compositions. 4,665,153, 5-12-87, Cl. 528-173.000.

Beaverson, Gregory K., to RCA Corporation. Apparatus and method for correcting CCD pixel nonuniformities. 4,698,685, 10-6-87, Cl. 358-213.150.

Beazley, Mark D.: *See—*

Hansen, Peder U.; and Beazley, Mark D., 4,635,413, Cl. 52-92.000.

Bebber, Hans J.; Rossner, Heinrich-Otto; and Tomalla, Gebhard, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Plasma torch with hollow fluid cooled nozzle. 4,645,899, 2-24-87, Cl. 219-121.0PN.

Bebber, Hans J.; Neuschutz, Dieter; and Rossner, Heinrich-Otto, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Method and apparatus for holding or increasing the temperature in a metal melt. 4,713,826, 12-15-87, Cl. 373-22.000.

Bebbington, John R. W.; and Bebbington, Julie C. Clothespin holder. 4,706,859, 11-17-87, Cl. 224-224.000.

Bebbington, Julie C.: *See—*

Bebbington, John R. W.; and Bebbington, Julie C., 4,706,859, Cl. 224-224.000.

BECAP: *See—*

Ancelle, Eric J., 4,705,121, Cl. 175-325.000.

Becavin, Henri G., to Thomson CSF. Feed device for a sweep beam array antenna. 4,692,768, 9-8-87, Cl. 342-368.000.

Beccaris, Carlo; and Lanzarini, Ernesto, to Valeo. Torsional damper device for a clutch disk. 4,634,397, 1-6-87, Cl. 464-68.000.

Beccaris, Carlo; and Marchisio, Aldo, to Valeo. Multiple rotating disk assembly with elastic separator means. 4,676,356, 6-30-87, Cl. 192-70.280.

Beccaris, Carlo: *See—*

Marchisio, Aldo; and Beccaris, Carlo, 4,690,659, Cl. 464-68.000.

Becerra-Novoa, Jorge O.: *See—*

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Bech, Jean A. Induction-type planetary reducing coupling for very high speed rotating machines. 4,649,307, 3-10-87, Cl. 310-99.000.

Bech, Marcus C.; and Koster, Ole, to Stormax International A/S. Method and apparatus for grouping, orienting, and packing articles. 4,694,637, 9-22-87, Cl. 53-448.000.

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Becka, Michael M.; and Vornberger, Walter, to International Shoe Machine Corporation. Heel lasting machine. 4,679,269, 7-14-87, Cl. 12-10.500.

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Becker, Hans F., to Seitz Enzinger Noll Maschinenbau Aktiengesel schaft. Filter press for cake filtration. 4,643,827, 2-17-87, C 210-228.000.

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edenk, William T.; and Harden, Kendall L., to Procter & Gamble Company, The. Laminated laundry product. 4,638,907, 1-27-87, Cl 206-0.500.

eder, Samuel L. Holdfast cutting system. 4,685,366, 8-11-87, Cl 83-455.000.

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Alpegiani, Marco; Bedeschi, Angelo; Foglio, Maurizio; Franceschi, Giovanni; and Perrone, Ettore, 4,713,450, Cl 540-214.000.
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edford, Peter H. Support pad for nonambulatory persons. 4,686,724, 8-18-87, Cl 5-468.000.

edford, Richard T. Breakway reflective safety belt. 4,653,853, 3-31-87, Cl 350-98.000.

dinghaus Business Forms, Inc.: *See—*
Dove, Thomas D., 4,638,569, Cl 33-562.000.

dini, John C., to TVI Systems, Ltd. Anti-copy system. 4,644,422, 2-17-87, Cl 360-60.000.

dis, Michael, to Deere & Company. Tractor power lift with a mechanical disconnect to power source. 4,664,405, 5-12-87, Cl 280-490.00A.

dnar, Fred H., to Westinghouse Electric Corp. Method and apparatus for impacting a surface with a controlled impact energy. 711,754, 12-8-87, Cl 376-245.000.

dnarik, Richard J. Welding tip removal tool. 4,649,61[illegible], 3-17-87, Cl 29-253.000.

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dnarz, Jurgen: *See—*
Reichert, Karl-Heinz; Schoeppel, Wolfgang; Ewangelidis, Stawros; Bednarz, Jurgen; and Leute, Ulrich, 4,705,648, Cl 252-512.000.

dner, Maria D.: *See—*
Kildea, James M.; Bedner, Maria D.; and Gulick, John J., 4,637,514, Cl 206-406.000.

dnorz, Johannes G.; Gueret, Pierre L.; Nievergelt, Hermann E.; Ott, Hanspeter; Pohl, Wolfgang D.; and Widmer, Daniel F., to International Business Machines Corporation. Vacuum transfer device. 643,627, 2-17-87, Cl. 414-217.000.

dnorz, Johannes G.; Denk, Winfried; Lanz, Martin; and Pohl, Wolfgang D., to International Business Machines Corporation. Light waveguide with a submicron aperture, method for manufacturing the waveguide and application of the waveguide in an optical memory. 684,206, 8-4-87, Cl. 350-96.120.

norz, Johannes G.; Gimzewski, James K.; and Reihl, Bruno, to International Business Machines Corporation. Field-emission scanning auger electron microscope. 4,698,502, 10-6-87, Cl. 250-306.000.

rij, Orest J., to Profit Technology, Inc. Multi-image communications system. 4,695,975, 9-22-87, Cl. 364-900.000.

Bedros, Renee; and Schnell, Robert J., to Honeywell Inc. Image recognition template generation. 4,658,428, 4-14-87, Cl 382-30.000.

Bedsole, Jaye M. Hands-free clamping device for holding fish or game for cleaning. 4,711,000, 12-8-87, Cl 17-70.000.

Beebe, Cedric H.; McDavid, Larry S.; and Pawlowski, Michael, to Sensormedics Corporation. Apparatus for deplating cutaneous gas sensors. 4,705,617, 11-10-87, Cl 204-402.000.

Beebe International, Inc.: *See—*
Smith, Glenn S., 4,695,010, Cl 242-158.00R.

Beebe, James C., to Eagle-Picher Industries, Inc. Apparatus and method for imposing a desired average radial force on a tire. 4,704,900, 11-10-87, Cl 73-146.000.

Beebe, James C.: *See—*
Cargould, Barry D.; and Beebe, James C., 4,699,185, Cl 141-1.000.
Higbie, Robert E., and Beebe, James C., 4,702,287, Cl 141-4.000.

Beebe, William B. Pendulum type decorative and time indicating device. 4,712,925, 12-15-87, Cl 368-179.000.

Beech Aircraft Corporation: *See—*
Jonas, Paul J., 4,671,470, Cl 244-119.000.

Beech, Alan E.: *See—*
Barry, Michael J.; Senior, Adrian; and Beech, Alan E., 4,649,288, Cl 307-84.000.

Beech, Brian; Rust, Jeff; Metlach, Alan; and LeVasseur, Rod, to Data Card Corporation. System for entering initializing data on the rear face of an integrated chip card. 4,701,600, 10-20-87, Cl 235-375.000.

Beech, Brian H.; and Moore, Simon, to Independent Broadcasting Authority. Demodulator for television signals with feedback to correlate frames or lines. 4,654,601, 3-31-87, Cl 329-122.000.

Beech, Brian H., to Independent Broadcasting Authority. Dynamic noise reduction for video. 4,658,296, 4-14-87, Cl. 358-167.000.

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Beecham Group: *See—*
Burton, George; and Best, Desmond J., 4,684,639, Cl 514-194.000.

Beecham Group p.l.c.: *See—*
Ainsworth, Anthony T.; and Smith, David G., 4,654,371, Cl 514-555.000.
Buckle, Derek R.; and Carpenter, Stephen T., 4,692,526, Cl 544-366.000.
Buckle, Derek R., 4,699,995, Cl 560-61.000.
Buckle, Derek R., 4,713,486, Cl 562-495.000.
Bywater, Robert J., 4,707,474, Cl 514-196.000.
Cantello, Barrie C. C., 4,665,072, Cl 514-237.000.
Clarke, Brian P.; Harbridge, John B.; and Stirling, Irene, 4,652,560, Cl 514-210.000.
Clarkson, Roy J., 4,666,710, Cl 424-66.000.
Cook, Michael A.; Curzons, Alan D.; and Wilkins, Robert B., 4,647,659, Cl 540-349.000.
Curzons, Alan D., 4,639,534, Cl 549-414.000.
Dorgan, Roderick J.; and Elliott, Richard L., 4,661,489, Cl 514-211.000.
Evans, John M.; Buckingham, Robin E.; and Willcocks, Kenneth, 4,644,070, Cl 549-399.000.
Evans, John M.; Buckingham, Robin E.; and Willcocks, Kenneth, 4,647,670, Cl 548-525.000.
Evans, John M., 4,677,116, Cl 514-456.000.
Evans, John M., 4,687,779, Cl 514-456.000.
Ferres, Harry; Smith, Richard A. G.; and Garman, Andrew J., 4,673,573, Cl 424-94.630.
Gaster, Laramie M.; and Orlek, Barry S., 4,638,066, Cl 544-344.000.
Hadley, Michael S.; and King, Francis D., 4,705,858, Cl 546-112.000.
Harbridge, John B., 4,645,671, Cl 424-114.000.
Harbridge, John B., 4,683,300, Cl 540-348.000.
Harris, Patrick C.; and Wilcox, John A., 4,691,029, Cl 549-79.000.
Hindley, Richard M.; and Berge, John, 4,692,465, Cl 514-539.000.
Jacewicz, Victor W., 4,647,692, Cl 562-401.000.
King, Francis D., 4,697,019, Cl 546-112.000.
Liberman, Michael; and Veal, Kenneth T., 4,650,795, Cl 514-210.000.
Markwell, Roger E.; Ward, Robert W.; and de Mello, Carol R., 4,716,160, Cl 514-212.000.
Milner, Peter H., 4,661,480, Cl 514-210.000.
Milner, Peter H., 4,670,431, Cl 514-194.000.
Ponsford, Roger J.; Pearson, Michael J.; and Finch, Stephen C., 4,647,558, Cl 514-210.000.
Ponsford, Roger J.; Pearson, Michael J.; and Finch, Stephen C., 4,678,782, Cl 514-210.000.
Ponsford, Roger J.; Pearson, Michael J.; and Finch, Stephen C., 4,704,385, Cl 514-210.000.
Ryder, Geoffrey A., 4,678,102, Cl 222-181.000.
Thomson, Michael J.; and Mangan, Frank R., 4,661,524, Cl 514-682.000.
Ward, Robert W.; and Markwell, Roger E., 4,670,432, Cl 514-210.000.
Willcocks, Kenneth, 4,640,928, Cl 514-422.000.

Beecham-Wuelfing GmbH & Co. KG: *See—*
Morgan, Brian, 4,657,910, Cl. 514-263.000.

Beecher, John, III: *See—*
Lohmeyer, Charles W.; Schlosser, Erich J.; Tucker, James E.; Stephen, James C.; Leja, Andrzej; Beecher, John, III; Simpkins, Ronald W.; and Pestka, Donald E., 4,677,964, Cl. 126-41.00R.
Stephen, James C.; Tucker, James E.; and Beecher, John, III, 4,688,541, Cl 126-25.00R.

Tucker, James E., Stephen, James C.; and Beecher, John, III, 4,635,613, Cl. 126-25.00R.

Beechey, Robert E.: *See*—

Hall, Trevor J.; and Beechey, Robert E., 4,643,057, Cl. 82-36.00R.

Beeck, Carlos L., to Tektronix, Inc. Grounding and supporting metal mesh. 4,642,592, 2-10-87, Cl. 333-246.000.

Beeck, Peter op de; Wuest, Rainer; and Stelter, Norbert, to Dr. Ing. h.c.F. Porsche Aktiengesellschaft. Method and apparatus for controlling a clutch-transmission unit. 4,679,145, 7-7-87, Cl. 364-424.100.

Beedle, Edward E.; and Robertson, David W., to Eli Lilly and Company. Intermediates for anticonvulsant agents. 4,642,379, 2-10-87, Cl. 564-155.000.

Beehive Machinery, Inc.: *See*—

Berrett, Douglas R., 4,685,628, Cl. 241-236.000.

Beehler, David E., Drake, Timothy E.; and Hawk, Timothy E., to Renold, Inc. Packer/weigh-scale. 4,696,357, 9-29-87, Cl. 177-145.000.

Beekman, Stanley. Athletic shoe sole. 4,670,997, 6-9-87, Cl. 36-114.000.

Beele, Gunther, to Klockner-Humboldt-Deutz Aktiengesellschaft. Apparatus and method for maintaining the temperature of molten metal. 4,638,980, 1-27-87, Cl. 266-44.000.

Beele, Gunther, to Klockner-Humboldt-Deutz Aktiengesellschaft. Method for storing and maintaining the temperature of molten metal. 4,690,385, 9-1-87, Cl. 266-44.000.

Beele, Johannes A., to Lycab AB. Sealing system. 4,702,444, 10-27-87, Cl. 248-56.000.

Beeler Mfg. Co.: *See*—

Beeler, Robert J., 4,687,130, Cl. 229-114.000.

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Beeley, Micheal G., and Blair, Bruce W., to Logan Manufacturing Company. Lightweight snow compactor for ski runs. 4,651,451, 3-24-87, Cl. 37-219.000.

Beemer, Paul H.: *See*—

Marcina, George L.; Lawlor, Francis E.; Beemer, Paul H.; and Balling, Lawrence A., 4,652,395, Cl. 252-301.350.

Been, Thomas S., to Process and Cryogenic Services, Inc. Waste solvent receptacle. 4,641,680, 2-10-87, Cl. 137-312.000.

Been, Thomas S., to Process and Cryogenic Services, Inc. Display panel assembly for fluid process system. 4,667,427, 5-26-87, Cl. 40-442.000.

Beenakker, Cornelis I. M.; and Van De Poll, Raoul P. J., to U.S. Philips Corporation. Method of determining fluorine. 4,666,857, 5-19-87, Cl. 436-124.000.

Beenen, Gerhard J.: *See*—

Boso, Brian; Beenen, Gerhard J.; and Murdock, Bruce, 4,685,185, Cl. 29-157.00C.

Beenker, Gerardus F. M.: *See*—

Claasen, Theodoor A. C. M.; Beenker, Gerardus F. M.; van Gerwen, Petrus J.; Meijer, Johannes M.; and Didden, Martinus L. N., 4,660,216, Cl. 375-58.000.

Claasen, Theodoor A. C. M.; Beenker, Gerardus F. M.; Van Gerwen, Petrus J.; Meijer, Johannes M.; and Didden, Martinus L. N., 4,672,633, Cl. 375-58.000.

Beer, Christian: *See*—

Schlensog, Klaus; Beer, Christian; and Riedweg, Robert, 4,673,388, Cl. 604-74.000.

Beer, Douglas C.: *See*—

Mierau, Cameron D.; Cramond, Patrick J.; and Beer, Douglas C., 4,685,497, Cl. 144-176.000.

Beer, Gary L.: *See*—

Chemtob, Elie; and Beer, Gary L., 4,636,372, Cl. 423-312.000.

Beer, Guenther: *See*—

Zwicker, Eberhard; Beckenbauer, Thomas; and Beer, Guenther, 4,712,244, Cl. 381-68.100.

Beer, Hans-Rudolf; Britsch, Helmut; Hirth, Michael; Kaiser, Tony; and Kogelschatz, Ulrich, to BBC Brown, Boveri & Company, Limited. Ozone generator with a ceramic-based dielectric. 4,650,648, 3-17-87, Cl. 422-186.070.

Beer, Henri B.; Van Den Keybus, Franz A. M.; and Suykerbuyk, Lucovicus F. M., to Eltech Systems Corporation. Fine, uniform particles, and precipitation or depositing of particles from a solution. 4,670,114, 6-2-87, Cl. 204-96.000.

Beer, James J.; and Lee, Do I., to Dow Chemical Company, The. Sheets having improved stiffness from fiber, latex and coalescing agent. 4,707,221, 11-17-87, Cl. 162-158.000.

Beer, Michael: *See*—

Binder, Robert; and Beer, Michael, 4,660,512, Cl. 123-41.600.

Beer, Rafael; and Christiansen, Tyrone. Multiple image photography system. 4,681,415, 7-21-87, Cl. 354-120.000.

Beer, Steve, to Elscint Ltd. NMR antenna and method for designing the same. 4,682,112, 7-21-87, Cl. 324-322.000.

Beer, Steve, to Elscint Ltd. Permanent magnet ring assembly for NMR imaging system and method for using such assembly. 4,703,276, 10-27-87, Cl. 324-319.000.

Beer, Wilhelm, to General Motors Corporation. Motor vehicle engine mounting arrangement. 4,641,809, 2-10-87, Cl. 248-559.000.

Beer, Wilhelm, to General Motors Corporation. Motor vehicle drive unit support arrangement. 4,643,270, 2-17-87, Cl. 180-299.000.

Beer, Wilhelm, to General Motors Corporation. Resilient mount and engine mounting arrangement. 4,669,711, 6-2-87, Cl. 267-140.100.

Beer, Wilhelm, to General Motors Corporation. Arrangement for mounting an engine on the chassis of a motor vehicle. 4,693,217, 9-15-87, Cl. 123-195.00A.

Beermann, Hubert: *See*—

Blecher, Klaus; Fiedler, Reinhard; Beermann, Hubert; and Wagener, Gerhard, 4,669,133, Cl. 4-538.000.

Beers, Irene G.: *See*—

Vetanen, William A.; Gleason, Kimberly R.; and Beers, Irene G., 4,642,259, Cl. 428-137.000.

Vetanen, William A.; Gleason, Kimberly R.; and Beers, Irene G., 4,656,076, Cl. 428-137.000.

Beers, M. Dale; and Thompson, James E., to Loctite Corporation. Auto-adhering one-component RTV silicone sealant composition utilizing glycidoxyalkyl substituted alkoxy-oxime silane as an adhesion promoter. 4,673,750, 6-16-87, Cl. 549-215.000.

Beers, Melvin D., to General Electric Company. One component silicone compositions with good bonding properties. 4,680,3 7-14-87, Cl. 528-14.000.

Beers, William W.; and Parham, Thomas G., to General Electric Company. Fluorescent lamp containing aluminate phosphor. 4,638,2 1-20-87, Cl. 313-487.000.

Beery, Jack; and Broome, Barry G., to ITT Corporation. Exposure apparatus for printing system. 4,639,127, 1-27-87, Cl. 355-35.000.

Bees, George L., to Candela Corporation. Series inverter circuit with timing responsive to reflective current. 4,647,830, 3-3-87, Cl. 320-1.000.

Bees, George L., to A.L.E. Systems, Inc. Power supply for negative impedance gas discharge lasers. 4,716,569, 12-29-87, Cl. 372-38.00.

Beesley, Brian G.; Hurley, Clive; Brend, Ramon H. J.; Edwards, Thomas P.; Sherrell, Robert W. D.; and Vickery, Andrew J., to Devon County Council. Waste transfer packers. 4,677,909, 7-7-87, Cl. 100-229.000.

Beesley, Lawrence R.: *See*—

Wainwright, Ronald C.; and Beesley, Lawrence R., 4,693,153, Cl. 83-53.000.

Beestman, George B., to Monsanto Company. High concentration encapsulation by interfacial polycondensation. 4,640,709, 2-3-87, Cl. 71-100.000.

Beetle, Robert H. Method of and apparatus for immersion casting. 4,667,726, 5-26-87, Cl. 164-72.000.

Beety, Carl, Jr.: *See*—

Golder, Willis E., Ierardi, Joseph A.; and Beety, Carl, Jr., 4,644,269, Cl. 324-158.00F.

Beetz, Tom, to Akzo N.V. Cycloalkane-indene-carboximidamide derivatives. 4,661,522, 4-28-87, Cl. 514-632.000.

Beever, William H.: *See*—

Blackwell, Jennings P.; and Beever, William H., 4,703,081, Cl. 524-592.000.

Johnson, Timothy W.; Beever, William H.; O'Connor, James E.; and Blackwell, Jennings P., 4,690,972, Cl. 524-609.000.

Beffa, Fabio, to Ciba-Geigy Corporation. Chrome azo and/or azomethine dyes containing a benzthiazolylphenyl or stilbenyl radical. 4,650,859, 3-17-87, Cl. 534-690.000.

Beffa, Fabio; and Schlesinger, Ulrich, to Ciba-Geigy Corporation. Bis 1:2 chromium complexes of disazo and azo or azomethine dyes. 4,652,631, 3-24-87, Cl. 534-645.000.

Beffa, Fabio; and Schutz, Hans U., to Ciba-Geigy Corporation. 1:2 chromium or cobalt metal complex dyes and use thereof for dyeing leather. 4,710,198, 12-1-87, Cl. 8-437.000.

Beffa, Fabio: *See*—

Schlesinger, Ulrich; and Beffa, Fabio, 4,661,587, Cl. 534-696.000.

Beg, Mirza A.: *See*—

Baker, Donal E.; and Beg, Mirza A., 4,707,142, Cl. 368-46.000.

Beg, Mirza R.; Perl, Julius; and Malcolm, Ronald D., Jr., to Image Technology Incorporated. Programmable image-transformation system. 4,688,095, 8-18-87, Cl. 358-160.000.

Began, Dennis; and Craig, Wayne L., to Marco, Inc. Vehicle frame mounted bicycle carrier. 4,676,413, 6-30-87, Cl. 224-42.03B.

Begas, Henk W. A., to U.S. Philips Corporation. Level indicator. 4,686,459, 8-11-87, Cl. 324-132.000.

Bege, Dietmar: *See*—

Kratz, Gerhard; Meininger, Siegfried; Fischer, Eckhard; and Bege, Dietmar, 4,636,363, Cl. 422-159.000.

Mallek, Heinz; Zange, Egon; Schlenter, Wolfgang; Tramper, Karl; Meininger, Siegfried; and Bege, Dietmar, 4,652,404, Cl. 252-628.000.

Begeman, Robert H.: *See*—

Alpaiwalla, Feroz K.; and Begeman, Robert H., 4,678,929, Cl. 307-112.000.

Beger, Udo, to Gotz, Kurt. Folding child's bed. 4,683,600, 8-4-87, Cl. 5-99.00C.

Beggs, Bruce C.: *See*—

Tang, Wai-Cheung; Siu, David; Beggs, Bruce C.; and Sferrazza, Joseph, 4,652,843, Cl. 333-212.000.

Tang, Wai-Cheung; Siu, David; Beggs, Bruce C.; and Sferrazza, Joseph, 4,675,630, Cl. 333-208.000.

Beggs, Louis C.; and D'Entremont, John R., to Texas Instruments Incorporated. Protected refrigerator compressor motor systems and motor protectors therefor. 4,701,824, 10-20-87, Cl. 361-24.000.

Beggs, Louis C.: *See*—

Pejouhy, Radi; Nield, Joseph G., Jr.; D'Entremont, John R.; Beggs, Louis C.; and Rotulo, Fabrizio, 4,713,717, Cl. 361-26.000.

Beggs, Richard D.; Friesen, Harold W.; and Nutt, Wendell G., to AT&T Technologies Inc., AT&T Bell Laboratories. Data transmission system. 4,697,051, 9-29-87, Cl. 178-63.00D.

Beghetto, Leonardo; and Padovan, Giovanni, to Technomare S.p.A. Undersea template for the drilling of wells for the exploitation of hydrocarbon pools under the sea. 4,687,062, 8-18-87, Cl. 166-366.000.

Beghin-Say International, Inc.: *See*—

Madsen, Willy B.; Jensen, Finn H.; Rasmussen, Ole B.; Goldstein, Guy; and Roussin-Moynier, Yves R., 4,636,419, Cl. 428-131.000.

Beghin-Say S.A.: *See—*
- Cuel, Jacques, 4,659,579, Cl. 426-465.000.
- Ehret, Philippe, 4,710,184, Cl. 604-368.000.
- Laplanche, Pierre, 4,643,729, Cl. 604-389.000.

Begin, Pierre: *See—*
- Boissinot, Jean-Guy; and Begin, Pierre, 4,666,478, Cl. 55-279.000.

Begleiter, Eric. Holographic product. 4,668,523, 5-26-87, Cl. 426-104.000.

Beglin, Thomas W.; Pence, Jane R.; Kamionka, Harvey E.; and Pence, Jerry W., to International Business Machines Corporation. Managing data storage devices connected to a digital computer. 4,638,424, 1-20-87, Cl. 364-200.000.

Beglinger, Gregory O., to Phillips Plastics Corporation. Apparatus for molding two-piece plastic fastener. 4,687,434, 8-18-87, Cl. 425-556.000.

Begum, Selima; Ullah, Ismat; and Nunning, Bernard C., to Bristol-Myers Company. Etoposide oral dosage form. 4,713,246, 12-15-87, Cl. 424-455.000.

Beh-Forrest, Eric; and Flanagan, Thomas P., to National Starch and Chemical Corporation. Hot melt adhesive composition for book hinge joint. 4,712,808, 12-15-87, Cl. 281-15.00R.

Beha, Johannes G.; Dreyfus, Russell W.; Hartstein, Allan M.; and Rubloff, Gary W., to International Business Machines Corporation. Photon assisted tunneling testing of passivated integrated circuits. 4,644,264, 2-17-87, Cl. 324-73.00R.

Beha, Johannes G.; Dreyfus, Russell W.; and Rubloff, Gary W., to International Business Machines Corporation. Noncontact full-line dynamic AC tester for integrated circuits. 4,670,710, 6-2-87, Cl. 324-73.00R.

Beha, Johannes G.; Dreyfus, Russell W.; Kash, Jeffrey A.; and Rubloff, Gary W., to International Business Machines Corporation. Full chip integrated circuit tester. 4,703,260, 10-27-87, Cl. 324-158.00R.

Beha, Johannes G.; Dreyfus, Russell W.; and Rubloff, Gary W., to International Business Machines Corporation. Noncontact dynamic tester for integrated circuits. 4,706,018, 11-10-87, Cl. 324-158.00R.

Behan, Diane E., to Taylor, Sheryl L., a part interest. Device for securing respiratory appliance during respiratory therapy. 4,641,647, 2-10-87, Cl. 128-207.180.

Behar, Francoise; Roucache, Jeannine; Auger, Jean; and Boudet, Luc, to Institut Francais du Petrole. Device for heating of solid or liquid samples in small quantities. 4,710,354, 12-1-87, Cl. 422-80.000.

Behar, Isaac; and Berthet, Hubert, to Institut Francais du Petrole. Modular system for the offshore production, storage and loading of hydrocarbons. 4,703,709, 11-3-87, Cl. 114-256.000.

Behedek nee Haraszin, Eva: *See—*
- Kaldor, Istvan; Szasz, Andras; Vegh nee Ba, Ilona; Heizer, Jozsef; and Behedek nee Haraszin, Eva, 4,656,290, Cl. 548-306.000.

Behee, Ronald D.: *See—*
- Robinson, McDonald; Behee, Ronald D.; deBoer, Wiebe B.; and Johnson, Wayne L., 4,654,509, Cl. 219-405.000.

Behl, Wishvender K.; and Chin, Der-Tau, to United States of America, Army. Method of making a rotating disk electrode. 4,696,103, 9-29-87, Cl. 29-825.000.

Behlen Mfg. Co.: *See—*
- Cruise, Robert R., 4,642,961, Cl. 52-408.000.

Behlert, Austin. Adjustable gun trigger mechanism. 4,691,461, 9-8-87, Cl. 42-69.010.

Behling, William C.: *See—*
- Regalbuto, John A.; Mayes, Philip W.; and Behling, William C., 4,655,138, Cl. 102-307.000.

Behlmer, Robert F.: *See—*
- Wirth, Gary J.; Behlmer, Robert F.; and Hoyt, Steven D., 4,655,129, Cl. 101-35.000.

Behm, Inc.: *See—*
- Kretchmar, Monte R.; and England, Charles K., 4,664,068, Cl. 122-26.000.

Behme, Werner; and Berleth, Manfred, to Cambridge Instruments GmbH. Microtome feed-motor control. 4,691,151, 9-1-87, Cl. 318-571.000.

Behn, Reinhard; and Utner, Ferdinand, to Siemens Aktiengesellschaft. Electrical capacitor and method for the manufacture thereof. 4,635,164, 1-6-87, Cl. 361-306.000.

Behn, Reinhard, to Siemens Aktiengesellschaft. Consolidated winding electrical capacitor and method for the manufacture thereof. 4,639,832, 1-27-87, Cl. 361-306.000.

Behn, Reinhard; and Utner, Ferdinand, to Siemens Aktiengesellschaft. Electrical layer capacitor and method for the manufacture thereof. 4,656,557, 4-7-87, Cl. 361-309.000.

Behn, Reinhard; and Utner, Ferdinand, to Siemens Aktiengesellschaft. Method for manufacturing electrical capacitors. 4,667,382, 5-26-87, Cl. 29-25.420.

Behn, Reinhard, to Siemens Aktiengesellschaft. Method for the formation of narrow, metal-free strips in a metal layer on plastic sheets. 4,670,639, 6-2-87, Cl. 219-121.0LJ.

Behnke, Gunther: *See—*
- Ohlson, Carl-Eric; and Behnke, Gunther, 4,679,223, Cl. 378-195.000.

Behnke, Joachim; and Pitowski, Hans-Jurgen, to AKZO NV. Polycarbonate-polyether-copolymer membrane. 4,686,044, 8-11-87, Cl. 210-500.220.

Behnke, Joachim: *See—*
- George, Ulf; Rochau, Erwin; Merk, Hans; and Behnke, Joachim, 4,661,612, Cl. 556-450.000.

Behnke, Kieth C.: *See—*
- Eckhoff, Steven R.; Oard, Darrell; Davis, Arthur B.; and Behnke, Kieth C., 4,703,647, Cl. 73-81.000.

Behnke, Klaus; and Munzenbrock, Anton, to Mannesmann Aktiengesellschaft. Hoist with overload safety protection. 4,698,565, 10-6-87, Cl. 318-318.000.

Behr, Hans, to Hermann Behr & Sohn GmbH & Co. Nozzle having a connected coaxial arrangement for a paint spraying device. 4,667,878, 5-26-87, Cl. 239-125.000.

Behr, Joseph L., to Emerson Electric Co. Pulse controlled expansion valve for multiple evaporators and method of controlling same. 4,685,309, 8-11-87, Cl. 62-212.000.

Behr, Michael E.; Wozniak, Kenneth P.; Gaubis, Philip A.; Guest, Philip Q., Jr.; Graves, James L.; and Wand, Thomas J., to TRW Inc. Electric steering gear. 4,660,671, 4-28-87, Cl. 180-142.000.

Behr, R. Douglas; and Zieke, Larry M., to Dow Chemical Company, The. Guide for zippered film in a form, fill and seal packaging machine. 4,698,954, 10-13-87, Cl. 53-551.000.

Behr, Raymond D.; and Zieke, Larry M., to Dow Chemical Company, The. Thermoplastic film with integral closures and reclosable container formed therefrom. 4,701,358, 10-20-87, Cl. 428-35.000.

Behr-Thomson Dehnstoffregler GmbH: *See—*
- Saur, Roland, 4,642,599, Cl. 337-397.000.
- Saur, Roland, 4,674,679, Cl. 236-34.500.

Behre, Horst: *See—*
- Hammerschmidt, Erich; Behre, Horst; Blank, Heinz U.; and Mayer, Dietmar, 4,705,652, Cl. 260-512.00C.

Behrend, Donald A. Device for aligning artifical teeth and crowns. 4,634,377, 1-6-87, Cl. 433-73.000.

Behrend, Steven J.: *See—*
- Fields, Ellis K.; Winzenburg, Mark L.; and Behrend, Steven J., 4,638,072, Cl. 549-234.000.

Behrens, Hermann-Josef, to International Standard Electric Corporation. Airborne set for a two-way distance-ranging system. 4,646,091, 2-24-87, Cl. 342-47.000.

Behrens, Hugh C., to Dow Chemical Company, The. Molten metal shot size and delivery mechanism for continuous casting operations. 4,633,930, 1-6-87, Cl. 164-66.100.

Behrens, Hugh C., to Dow Chemical Company, The. Molten metal handling system. 4,635,706, 1-13-87, Cl. 164-500.000.

Behrens, Hugh C., to Dow Chemical Company, The. Annular linear induction flowmeter. 4,688,431, 8-25-87, Cl. 73-861.110.

Behrens, Kelly D., to B & B Chlorination. Dry pellet dispensing device for wells. 4,694,900, 9-22-87, Cl. 166-75.100.

Behrens, Martin; Depta, Ingolf; and Rosenstock, Gunter, to Siemens Aktiengesellschaft. Write head for ink printer devices. 4,665,409, 5-12-87, Cl. 346-140.00R.

Behrens, Milton D.: *See—*
- Sung, Rodney L.; Caggiano, Michael A.; and Behrens, Milton D., 4,659,336, Cl. 44-62.000.

Behrens, Robert G.: *See—*
- Clark, William M., Jr.; Utlaut, Mark W.; Wysocki, Joseph A.; Storms, Edmund K.; Szklarz, Eugene G.; Behrens, Robert G.; Swanson, Lynwood W.; and Bell, Anthony E., 4,670,685, Cl. 313-230.000.

Behrens, Robert N. Air motivated conduit prover apparatus. 4,715,747, 12-29-87, Cl. 405-303.000.

Behrens, Robert N.: *See—*
- Dobberpuhl, Dale R.; and Behrens, Robert N., 4,671,395, Cl. 192-17.00C.

Behrens, Rudolf A.; and Seltzer, Raymond, to Ciba-Geigy Corporation. Hydroxylamines derived from hindered amines. 4,691,015, 9-1-87, Cl. 544-198.000.

Behrens, Rudolph, to BCD Dryers, Inc. Apparatus and method for drying elongated webs. 4,689,893, 9-1-87, Cl. 34-23.000.

Behrens, Wolfgang; and Krupka, Bernd. Plant bearing noise abatement wall. 4,665,647, 5-19-87, Cl. 47-33.000.

Behrenz, Wolfgang: *See—*
- Kolbl, Heinz; Gompper, Rudolf; Behrenz, Wolfgang; Hammann, Ingeborg; Homeyer, Bernhard; and Hermann, Gunther, 4,647,581, Cl. 514-475.000.
- Kruger, Bernd-Wieland; Hoffmann, Hellmut; Roos, Ernst; and Behrenz, Wolfgang, 4,678,777, Cl. 514-110.000.
- Kruger, Bernd-Wieland; Behrenz, Wolfgang; Becker, Benedikt; Homeyer, Bernhard; and Stendel, Wilhelm, 4,695,563, Cl. 514-105.000.
- Naumann, Klaus; Braden, Rudolf; Behrenz, Wolfgang; Becker, Benedikt; Homeyer, Bernhard; and Stendel, Wilhelm, 4,699,922, Cl. 514-531.000.
- Riebel, Hans-Jochem; Homeyer, Bernhard; Becker, Benedikt; and Behrenz, Wolfgang, 4,665,061, Cl. 514-89.000.

Behring, Daniel F. Convertible stand. 4,679,655, 7-14-87, Cl. 182-33.000.

Behringer, Georg; and Otto, Klaus, to Siemens Aktiengesellschaft. Baths for the electrodeposition of tin-graphite or tin/lead-graphite layers. 4,652,349, 3-24-87, Cl. 204-44.400.

Behringwerke Aktiengesellschaft: *See—*
- Dickneite, Gerhard; Schorlemmer, Hans-Ulrich; and Sedlacek, Hans-Harald, 4,699,912, Cl. 514-283.000.
- Fuhge, Peter; Heimburger, Norbert; Stohr, Hans-Arnold; and Burk, Wolfgang, 4,650,678, Cl. 424-101.000.
- Heber, Helmut; Eberle, Reinhard; and Teetz, Volker, 4,665,016, Cl. 435-23.000.
- Kolar, Cenek, 4,686,193, Cl. 436-536.000.
- Steuer, Dagmar; and Schmidtberger, Rudolf, 4,649,120, Cl. 436-13.000.
- Stuber, Werner, 4,713,369, Cl. 514-18.000.
- Zilg, Harald, 4,645,670, Cl. 424-101.000.

Behrle, William L. Belt buckle/fishing rod holder. 4,669,214, 6-2-87, Cl. 43-21.200.

Behrstock, Barry. Endotracheal intubation suction device. 4,699,138, 10-13-87, Cl. 128-207.160.

Behun, Eugene: *See—*
  Elchinger, Gilbert M.; Mutschler, Edward C., Jr., and Behun, Eugene, 4,682,183, Cl. 346-75.000.

Behunek, Vladimir: *See—*
  Krovak, Premysl; Behunek, Vladimir; Vojtisek, Vladimir; Salvet, Miroslav; and Hasal, Pavel, 4,683,062, Cl. 210-617.000.

BEI Electronics, Inc.: *See—*
  Kimble, Jack, 4,698,608, Cl. 335-222.000.
  LaPlante, Dale, 4,678,908, Cl. 250-231.0SE.

Beichel, Rudi: *See—*
  Rivas, Nelson; and Beichel, Rudi, 4,678,039, Cl. 166-303.000.

Beier, Helmat, to Siemens Aktiengesellschaft. Gas pressure circuit breaker. 4,678,878, 7-7-87, Cl. 200-148.00A.

Beier, John K.: *See—*
  Pospisal, Gary L.; and Beier, John K., 4,663,788, Cl. 5-450.000.

Beier, Sybille: *See—*
  Laurent, Henry; Bittler, Dieter; Beier, Sybille; and Elger, Walter, 4,681,875, Cl. 514-182.000.

Beier, Wolfgang, to Standard Elektrik Lorenz Aktiengesellschaft. Receiver for bandspread signals. 4,672,629, 6-9-87, Cl. 375-1.000.

Beierle, Carl F.; and Irik, Harry. Trestle-type reel carrier. 4,657,469, 4-14-87, Cl. 414-607.000.

Beierlein, Rainer, to Siemens Aktiengesellschaft. Electron vacuum image intensifier with reflection reducing output screen. 4,658,128, 4-14-87, Cl. 250-213.0VT.

Beiersdorf Aktiengesellschaft: *See—*
  Cohner, Erich; and Armah, Ben, 4,686,225, Cl. 514-272.000.
  Grah, Klaus, 4,670,335, Cl. 428-355.000.
  Hansen, Werner, 4,639,453, Cl. 514-254.000.
  Nick, Erich; Guse, Gunter; and Asmussen, Bodo, 4,699,792, Cl. 424-446.000.
  Pietsch, Hanns; Kartheus, Holger; and Reul, Helmut, 4,643,732, Cl. 623-2.000.
  Sanders, Bernard, 4,709,399, Cl. 383-66.000.

Beierwaltes, Craig G.: *See—*
  Wensel, Neil D.; Norris, Gary E.; and Beierwaltes, Craig G., 4,698,767, Cl. 364-471.000.

Beigang, Wolfgang; and Hoffman, Werner, to Uni-Cardan Aktiengesellschaft. Torque transmission assembly with enhanced torque transmitting characteristics. 4,713,040, 12-15-87, Cl. 464-132.000.

Beigel, Bruce G.: *See—*
  Kelly, Michael A.; Beigel, Bruce G.; and Logan, Emmanuel L., Jr., 4,703,962, Cl. 292-251.500.
  Logan, Emanuel L.; Kelly, Michael A.; and Beigel, Bruce G., 4,652,028, Cl. 292-251.500.

Beigler, Myron A.: *See—*
  Tsay, Yuh-Geng; Beigler, Myron A.; Calenoff, Emanuel; Friesen, Gerald L.; and Nichols, James L., 4,716,120, Cl. 436-513.000.

Beihoff, Bruce C.; Judes, Avie; and Baran, Michael S., to Eaton Corporation. Modular PTC thermistor overload protection system. 4,683,515, 7-28-87, Cl. 361-106.000.

Beil, Gerhard; Pichler, Alfred; Pachonik, Horst; and Plehnert, Kurt, to Siemens Aktiengesellschaft. Electrical isolation and leveling of patterned surfaces. 4,693,780, 9-15-87, Cl. 156-643.000.

Beiley, Mark J., to Teledyne Linair Engineering. Tube fitting. 4,705,302, 11-10-87, Cl. 285-47.000.

Beilfuss, Robert C.; Lanier, David M.; Bammel, Stanley E.; Huang, Terry J.; and Banks, David M., to Lennox Industries, Inc. Ignition control system for a gas appliance. 4,695,246, 9-22-87, Cl. 431-31.000.

Beilin Solomon I.; and Truong, Long K., to EPID Inc. Positive particles in electrophoretic display device composition. 4,680,103, 7-14-87, Cl. 204-299.00R.

Beim, Rudolf, to Ford Motor Company. Ratio change gear speed synchronizing in a tractor transmission. 4,686,869, 8-18-87, Cl. 74-745.000.

Beim, Rudolf, to Ford Motor Company. Creeper speed actuator for a tractor transmission. 4,706,519, 11-17-87, Cl. 74-745.000.

Beims, Michael A.: *See—*
  Ebert, Frederick; Silder, Stephen H.; and Beims, Michael A., 4,655,414, Cl. 244-75.00R.

Bein, David H.; and Bein, Raymond E. Level indicating device. 4,703,315, 10-27-87, Cl. 340-689.000.

Bein, Jeffrey D., to Westinghouse Electric Corp. Nuclear steam generator wrapper barrel/tube support plate connection assembly and radial tuning method for assembling same. 4,690,206, 9-1-87, Cl. 165-81.000.

Bein, Raymond E.: *See—*
  Bein, David H.; and Bein, Raymond E., 4,703,315, Cl. 340-689.000.

Beinert, Gerard: *See—*
  Chaumont, Philippe; Beinert, Gerard; Herz, Jean; and Rempp, Paul, 4,687,814, Cl. 525-242.000.

Beining, August H., and Smith, William A., to Hughes Aircraft Company. Integrated touch paint system for displays. 4,692,809, 9-8-87, Cl. 358-247.000.

Beining, August H.; Dial, Larry A.; Smith, William A.; and Rieck, Gene W., to Hughes Aircraft Company. Electromagnetic energy interference seal for light beam touch panels. 4,695,827, 9-22-87, Cl. 340-365.00P.

Beintze, Guenther: *See—*
  Huebner, Horst; Tauber, Guenter; Hofbauer, Peter; Glatzer, Roland; Beintze, Guenther; Wagner, Dieter; and Riege, Guenter, 4,685,328, Cl. 73-55.000.

Beinvogl, Willy; Enders, Gerhard; and Mohr, Ernst-Guenter, to Siemens Aktiengesellschaft. Method for manufacturing VLSI MOS-transistor circuits. 4,658,496, 4-21-87, Cl. 29-571.000.

Beirne, Patrick R.: *See—*
  Reesor, Gordon J.; Beirne, Patrick R.; and Styrna, Zbigniew B 4,669,114, Cl. 379-257.000.
  Reesor, Gordon J.; Beirne, Patrick R.; and Styrna, Zbigniew B 4,694,482, Cl. 379-27.000.

Beirnes, James R. Weatherstripping for side-hinged windows an doors. 4,712,330, 12-15-87, Cl. 49-484.000.

Beisel, Christopher: *See—*
  Kieff, Elliott; Tanner, Jerome; Hummel, Mary; and Beisel, Christopher, 4,707,358, Cl. 424-89.000.

Beisel, Hermann; and Seefried, Karl-Heinz, to Heidelberger Druckma chinen AG. Device for transferring ink to an inking unit of a printin machine. 4,658,724, 4-21-87, Cl. 101-351.000.

Beisel, Hermann, to Heidelberger Druckmaschinen AG. Device f engaging and disengaging the form rollers in an inking unit of printing machine. 4,711,174, 12-8-87, Cl. 101-352.000.

Beisel, Robert R.: *See—*
  Stevens, Raymond R., Jr.; Beisel, Robert R.; and Griffiths, Stephe F., 4,697,448, Cl. 72-405.000.

Beisemann, Heinz: *See—*
  Predohl, Wilhelm; Beisemann, Heinz; and Reitemeyer, Pa 4,695,236, Cl. 425-131.100.
  Reifenhauser, Hans; Reitemeyer, Paul; Krumm, Klemens; an Beisemann, Heinz, 4,708,618, Cl. 425-133.500.

Beisler, Alfons, to Beisler GmbH. Device for transferring a fabric s from a deposit station. 4,694,767, 9-22-87, Cl. 112-303.000.

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  Beisler, Alfons, 4,694,767, Cl. 112-303.000.
  van der Weide, Egbert J., 4,641,826, Cl. 271-18.300.

Beisner, Klaus; Gemmer, Ludwig; Zisselmar, Raimund; and Kellerwe sel, Hans, to Klockner-Humboldt-Deutz Aktiengesellschaft. Met and apparatus for continuous pressure comminution of brittle gri ing stock. 4,703,897, 11-3-87, Cl. 241-24.000.

Beisser, Jean-Claude, to Societe Nouvelle Transfix. Method of c structing transformers using a transformer-coil winding whe 4,638,554, 1-27-87, Cl. 29-605.000.

Beisser, Jean-Claude. Transformer with gapless core on suppo 4,639,705, 1-27-87, Cl. 336-5.000.

Beisser, Jean-Claude, to Societe Nouvelle, Transfix. Electric tra former and method for the manufacture of the transformer. 4,651,4 3-24-87, Cl. 29-605.000.

Beisswanger, Rudolf; Wohrle, Albert, deceased (by Wohrle, Ingr executor); and Plomer, Anton, to J. M. Voith, GmbH. Device f coating traveling material webs. 4,700,658, 10-20-87, Cl. 118-67.00

Beiswenger, John L., to Rayovac Corporation. Reflector for electr light. 4,635,170, 1-6-87, Cl. 362-157.000.

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Beiter, Werner. Nock for arrows of sport and hunting bows. 4,645,2 2-24-87, Cl. 273-416.000.

Beith, William: *See—*
  Myers, Daniel C., 4,653,101, Cl. 381-64.000.

Beitinger, Eberhard; and Glaser, Eberhard, to Ed. Zublin Aktiengesel schaft. Adsorption layer. 4,678,771, 7-7-87, Cl. 502-402.000.

Beitinger, Eberhard: *See—*
  Glaser, Eberhard; and Beitinger, Eberhard, 4,679,965, C 405-258.000.
  Hahn, Volker; and Beitinger, Eberhard, 4,647,256, Cl. 405-184.00
  Nussbaumer, Manfred; Glaser, Eberhard; and Beitinger, Eberhar 4,671,705, Cl. 405-267.000.
  Nussbaumer, Manfred; Glaser, Eberhard; and Beitinger, Eberhar 4,673,316, Cl. 405-267.000.
  Nussbaumer, Manfred; Glaser, Eberhard; and Beitinger, Eberhar 4,690,590, Cl. 405-267.000.
  Nussbaumer, Manfred; Glaser, Eberhard; Beitinger, Eberhard; an Eckardt, Hartmann, 4,697,953, Cl. 405-128.000.

Beitler, Franz: *See—*
  Hoppmanns, Rolf D.; Steup, Walter; Wieczorek, Willibald; an Beitler, Franz, 4,639,801, Cl. 360-96.500.

Beitner, Rivka, to Bar Ilan University. Method and composition for th therapeutic and prophylactic treatment of trauma to the sk 4,654,323, 3-31-87, Cl. 514-9.000.

Beitner, Shlomo, to Vapor Corporation. Thermoelectric cooler 4,704,870, 11-10-87, Cl. 62-3.000.

Beitzke, Bernhard; and Blank, Heinz U., to Bayer Aktiengesellschaf 5,5-dichloro-4,5-dihydro-6-hydroxy-2-trichloromethylpyrimidin-4-one. 4,668,788, 5-26-87, Cl. 544-319.000.

Bejaco AB: *See—*
  Hansson, Bengt L., 4,674,682, Cl. 239-8.000.

Bejczy, Antal K.; and Primus, Howard C., to California Institute o Technology. Linear array optical edge sensor. 4,694,153, 9-15-87, C 250-202.000.

Bekedam, Martin. Heat exchanger array for a step down return o condensate. 4,648,355, 3-10-87, Cl. 122-412.000.

Bekedam, Martin. Atmospheric deaerator unit. 4,698,076, 10-6-87, C 55-164.000.

Bekesi, Julius G.; Holland, James F.; and Tsang, Peter H., to Mou Sinai School of Medicine of the City University of New York. Leuk cyte adherence inhibition assay. 4,666,834, 5-19-87, Cl. 435-29.000.

Bekhaled, Mohammed, to Alsthom. Superconductive AC current limiter. 4,700,257, 10-13-87, Cl. 361-19.000.

Bekishev, Kenes K.: *See—*
  Yantsen, Ivan A.; Bekishev, Kenes K.; Savchak, Orest G.; Klok Alexandr B.; Zhanabaev, Tolgat M.; Pakshtas, Mechislav-Valen tinas K.; Glotov, Boris N.; Fink, Garold K.; Timkin, Alexei F

Zorin, Nikolai I.; and Bobylev, Leonid M., 4,658,913, Cl. 173-134.000.

Bekkadal, Fritz; and Schoug-Pettersen, Tor, to Autronica A/S. Method and apparatus for measuring the distance to an object. 4,661,817, 4-28-87, Cl. 342-124.000.

Bekker, Alex Y.: *See—*

Bellet, Richard J.; Broyer, Ephraim; Bekker, Alex Y., and Lace, Melvin A., 4,708,839, Cl. 264-85.000.

Patel, Kundanbhai M.; Bekker, Alex Y.; Murthy, Andiappan K. S.; and Gefri, Fredrick J., 4,675,097, Cl. 208-112.000.

Bekkering, Hendrik M.; and Vulink, Henricus H. M., to Duphar International Research B.V. Automatic injection device. 4,661,098, 4-28-87, Cl. 604-135.000.

Bekooij, Jurrianus, Kooijmans, Petrus G.; Raudenbusch, Werner T.; and Stachowiak, Stephen A., to Shell Oil Company. Preparation of binders for coatings, thermosetting coating compositions and their use. 4,686,248, 8-11-87, Cl. 523-404.000.

Bektesh, Susan L.: *See—*

Hopp, Thomas P., Bektesh, Susan L.; Conlon, Paul J., III; and March, Carl J., 4,703,004, Cl. 435-68.000.

Bel, Ronald. Portable stanchion for ships. 4,655,153, 4-7-87, Cl. 114-75.000.

Beladi, Ilona: *See—*

Toth, Miklos; Endresz, Valeria; Beladi, Ilona; and Toth, Sandor, 4,696,899, Cl. 435-68.000.

Belagaje, Ramamoorthy; Kuhstoss, Stuart A.; and Rao, R. Nagaraja, to Eli Lilly and Company. Transcription terminators. 4,710,464, 12-1-87, Cl. 435-91.000.

Belai, Ivan: *See—*

Matolcsy, Gyorgy; Gimesi, Antal; Pelejtei nee Bauer, Krisztina; Sziatisz, Janisz; Tombor nee Szotyori, Agota; Cserhati, Tibor; Gerlei nee Komaromy, Aniko; Kardos nee Nikoletti, Mariann; Dukai, Jozsef; Sebok, Dezso; Soptei, Csaba; Nagy, Lajos; and Belai, Ivan, 4,672,112, Cl. 536-46.000.

Belandria, Jose I.: *See—*

Galiasso, Roberto E.; Belandria, Jose I.; and Caprioli, Pasquale I., 4,664,782, Cl. 208-143.000.

Belanger, Andre; and Robitaille, Michel, to Hydro-Quebec; and Societe Nationale Elf Aquitaine. Dense anodes of lithium alloys for all solid batteries. 4,652,506, 3-24-87, Cl. 429-192.000.

Belanger, Barry F.; Liu, Thomas P. L.; and Lambert, Thomas W., to General Electric Company. Film writing system with closed loop control for electronic images. 4,700,058, 10-13-87, Cl. 250-205.000.

Belanger, Germain: *See—*

Lalancette, Jean-Marc; and Belanger, Germain, 4,639,309, Cl. 208-262.000.

Belanger, Inc.: *See—*

Belanger, James A., 4,640,631, Cl. 384-297.000.

Belanger, James A.; Wentworth, Robert, and Lapham, James M., 4,662,284, Cl. 104-172.300.

Belanger, James A., 4,685,166, Cl. 15-97.00B.

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Belanger, James A., 4,715,101, Cl. 29-149.50C.

Wentworth, Robert J., and Astley, Graham J., 4,715,287, Cl. 104-172.300.

Belanger, James A., to Belanger, Inc. Plastic bearing and one piece housing assembly. 4,640,631, 2-3-87, Cl. 384-297.000.

Belanger, James A.; Wentworth, Robert; and Lapham, James M., to Belanger, Inc. Automobile conveyor. 4,662,284, 5-5-87, Cl. 104-172.300.

Belanger, James A., to Belanger, Inc. Apparatus for washing vehicles including plastic bearings. 4,685,166, 8-11-87, Cl. 15-97.00B.

Belanger, James A.; Wentworth, Robert; and Lapham, James M., to Belanger, Inc. Automobile conveyor. 4,690,065, 9-1-87, Cl. 104-172.300.

Belanger, James A., to Belanger, Inc. Method of making a plastic bearing. 4,715,101, 12-29-87, Cl. 29-149.50C.

Belanger, John. Multi-purpose camping tool. 4,700,420, 10-20-87, Cl. 7-114.000.

Belanger, Patrice C.: *See—*

Atkinson, Joseph G.; Guindon, Yvan; Belanger, Patrice C., and Rokach, Joshua, 4,634,766, Cl. 544-34.000.

Gillard, John; Rokach, Joshua; and Belanger, Patrice C., 4,667,055, Cl. 562-426.000.

Belanger, Robert J.; and Bisignano, Alan G., to Irvine Sensors Corporation. Apparatus and method for fabricating modules comprising stacked circuit-carrying layers. 4,704,319, 11-3-87, Cl. 428-209.000.

Belanger, Rose-Ange. Obstetrical instrument for rupturing the amniotic membranes. 4,662,376, 5-5-87, Cl. 128-361.000.

Belanger, Thomas D., Jr., to GTE Communication Systems Corporation. Beam lead bonding apparatus. 4,638,937, 1-27-87, Cl. 228-5.500.

Belanger, Victor: *See—*

Pratt, John D.; and Belanger, Victor, 4,681,494, Cl. 411-54.000.

Belardinelli, Luiz: *See—*

Berne, Robert M.; Belardinelli, Luiz; and Rubio, Rafael, 4,673,563, Cl. 424-9.000.

Belart, Juan, to Alfred Teves GmbH. Hydraulic servo vehicle brake. 4,641,891, 2-10-87, Cl. 303-10.000.

Belart, Juan, to Alfred Teves GmbH. Brake system. 4,641,894, 2-10-87, Cl. 303-114.000.

Belart, Juan; Burgdorf, Jochen, Bleckmann, Hans W.; Weise, Lutz; and Seibert, Wolfram, to ITT, Industries Inc. Brake system with slip control for automotive vehicles. 4,641,895, 2-10-87, Cl. 303-119.000.

Belart, Juan, to ITT Industries, Inc. Hydraulic power booster. 4,642,989, 2-17-87, Cl. 60-551.000.

Belart, Juan; Weise, Lutz; and Seibert, Wolfram, to Alfred Teves GmbH. Slip-controlled brake system for automotive vehicles with driven front and rear axle. 4,643,486, 2-17-87, Cl. 303-114.000.

Belart, Juan, to Alfred Teves GmbH. Hydraulic servo vehicle brake. 4,643,490, 2-17-87, Cl. 303-115.000.

Belart, Juan; Fennel, Helmut; Seibert, Wolfram; and Batistic, Ivica, to Alfred Teves GmbH. Brake system with slip control for automotive vehicles with front-wheel drive or all-wheel drive. 4,643,492, 2-17-87, Cl. 303-119.000.

Belart, Juan, to Alfred Teves GmbH. Brake pressure generator having an improved master cylinder and booster for an automotive hydraulic brake system. 4,649,707, 3-17-87, Cl. 60-550.000.

Belart, Juan, to ITT Industries Inc. Hydraulic brake system for automotive vehicles. 4,656,833, 4-14-87, Cl. 60-545.000.

Belart, Juan, to Alfred Teves GmbH. Hydraulic motor vehicle servo brake. 4,657,315, 4-14-87, Cl. 303-113.000.

Belart, Juan; and Goossens, Andre, to ITT Industries, Inc. Device for monitoring the circumferential speed of a toothed disc capable of being rotated. 4,658,168, 4-14-87, Cl. 310-168.000.

Belart, Juan, to ITT Industries, Inc. Hydraulic power booster. 4,671,066, 6-9-87, Cl. 60-551.000.

Belart, Juan, to Alfred Teves GmbH. Hydraulic vehicle brake system with anti-locking. 4,678,242, 7-7-87, Cl. 303-92.000.

Belart, Juan, to Teves, Alfred. Hydraulic brake system for automotive vehicles. 4,681,375, 7-21-87, Cl. 303-114.000.

Belart, Juan; Burgdorf, Jochen; Weise, Lutz; and Seibert, Wolfram, to Alfred Teves GmbH. Brake system with slip control. 4,685,747, 8-11-87, Cl. 303-114.000.

Belart, Juan; Burgdorf, Jochen; and Seibert, Wolfram, to Alfred Teves GmbH. Hydraulic brake system with fast-fill cylinder. 4,702,530, 10-27-87, Cl. 303-10.000.

Belart, Juan; Seibert, Wolfram; and Ocvirk, Norbert, to Alfred Teves GmbH. Hydraulic brake system. 4,703,978, 11-3-87, Cl. 303-52.000.

Belart, Juan; Seibert, Wolfram; and Ocvirk, Norbert, to Alfred Teves GmbH. Brake pressure generator for a hydraulic brake system for use with motor vehicles. 4,708,405, 11-24-87, Cl. 303-114.000.

Belbel, Elie; Baron, Thierry; Blanchard, Christian; Haury, Andre; and Lauraire, Michel, to La Telemecanique Electrique. Fuse cut-out cartridge. 4,635,022, 1-6-87, Cl. 337-158.000.

Belbel, Elie; Caudron, Robert; Fechant, Louis; Haury, Andre; Lauraire, Michel; Muniesa, Jacques; and Siffroi, Lucien, to La Telemecanique Electrique. Electric switching unit comprising a gas-tight casing for protection of contacts. 4,638,275, 1-20-87, Cl. 335-151.000.

Belbel, Elie; Lauraire, Michel; Moreau, Luc; Lemarquand, Pierre; Paggi, Serge; and Comtois, Patrick, to La Telemecanique Electrique. Switching device with antiarcing screen. 4,647,741, 3-3-87, Cl. 200-151.000.

Belbel, Elie; Blanchard, Christian; Cohen, Jacques; Haury, Andre; Lauraire, Michel; and Moreau, Luc, to La Telemecanique Electrique. Automatic protection switch with visible disconnecting action and manual resetting. 4,650,937, 3-17-87, Cl. 200-77.000.

Belbel, Elie; Blanchard, Christian; Haury, Andre; and Lauraire, Michel, to La Telemecanique Electrique. Switch device having an insulating screen inserted between the contacts during breaking. 4,659,887, 4-21-87, Cl. 200-151.000.

Belbel, Elie; Blanchard, Christian; Haury, Andre; and Lauraire, Michel, to La Telemecanique Electrique. Switch device having an insulating screen inserted between the contacts during breaking. 4,659,888, 4-21-87, Cl. 200-151.000.

Belbel, Elie; Blanchard, Christian; Haury, Andre; and Lauraire, Michel, to La Telemecanique Electrique. Switch device having an insulating screen inserted between the contacts during breaking. 4,677,266, 6-30-87, Cl. 200-151.000.

Belbel, Elie; Bataille, Christian; Blanchard, Christian; Haury, Andre; and Lauraire, Michel, to La Telemecanique Electrique. Remote control circuit breaker having a retractable switch contact. 4,682,132, 7-21-87, Cl. 335-14.000.

Belbel, Elie; Blanchard, Christian; Haury, Andre; and Lauraire, Michel, to La Telemecanique Electrique. Switch device having an insulating screen inserted between the contacts during breaking. 4,700,030, 10-13-87, Cl. 200-151.000.

Belbel, Elie; Bataille, Christian; Blanchard, Christian; Haury, Andre; and Lauraire, Michel, to La Telemecanique Electrique. Remote control circuit breaker having a retractable switch contact. 4,700,160, 10-13-87, Cl. 335-14.000.

Belcher, Donald K.: *See—*

Salvage, Seward T.; Belcher, Donald K.; and Rosier, Charles D., 4,700,153, Cl. 333-81.00R.

Belcher, R. Allan, to Burr-Brown Corporation. Apparatus and methods for digital-to-analogue conversion. 4,703,308, 10-27-87, Cl. 340-347.0DA.

Belcher, Richard A.; and Panaro, Robert J., to Gould Inc. Electric fuse heat dam element having stiffening ribs. 4,651,119, 3-17-87, Cl. 337-166.000.

Belco Industries Incorporation: *See—*

Nelson, John W., 4,653,344, Cl. 74-570.000.

Belco Pollution Control Corporation: *See—*

Chen, James Y., 4,648,976, Cl. 210-678.000.

Belcsak, Zoltan: *See—*

Vadas, Zoltan; Belcsak, Zoltan; Papp, Istvan; Wenzel, Bela; and Takacsy, Geza, 4,677,307, Cl. 290-2.000.

Beldin, Leroy E. Vaporizing assembly. 4,667,648, 5-26-87, Cl. 123-593.000.

Bele, Robert, to CGR Ultrasonic. Echography probe and apparatus incorporating such a probe. 4,641,660, 2-10-87, Cl. 128-660.000.

Belentepe, Yilmaz C.: *See—*

Bloom, Daniel M.; Buccilli, Joseph A.; and Belentepe, Yilmaz C., 4,656,386, Cl. 313-113.000.

Belew, Robert R., to United States of America, National Aeronautics and Space Administration. Dual motion valve with single motion input. 4,657,044, 4-14-87, Cl. 137-606.000.

Belew, Robert R., to United States of America, National Aeronautics and Space Administration. Remotely controllable mixing system. 4,674,533, 6-23-87, Cl. 137-595.000.

Belfer-Canterman, Sofia: *See—*

Streat, Michael; and Belfer-Canterman, Sofia, 4,711,863, Cl. 502-5.000.

Belfield, William R.; and Medaugh, Raymond S., to AT&T Bell Laboratories. Wideband adaptive prediction. 4,654,863, 3-31-87, Cl. 375-27.000.

Belfor, Michael E.: *See—*

Bohl, Walter L., Jr.; and Belfor, Michael E., 4,705,488, Cl. 446-393.000.

Belfoure, Edward L.: *See—*

Liu, Ping Y.; and Belfoure, Edward L., 4,634,737, Cl. 525-146.000.

Belgard, Richard A.: *See—*

Gruner, Ronald H.; Clancy, Gerald F.; Mundie, Craig J.; Schleimer, Stephen I.; Wallach, Steven J.; Bratt, Richard G.; Gavrin, Edward S.; Wallach, Walter A., Jr.; Ahlstrom, John K.; Richmond, Michael S.; Bernstein, David H.; Pilat, John F.; Farber, David A.; and Belgard, Richard A., 4,675,810, Cl. 364-200.000.

Belin, Simone: *See—*

Turolla, Jean-Pierre; and Belin, Simone, 4,646,037, Cl. 333-182.000.

Beling, Thomas E., to Sigma Instruments, Inc. Signal reading system such as for remote reading of meters. 4,683,477, 7-28-87, Cl. 340-870.020.

Beling, Thomas E., to Sigma Instruments, Inc. Power distribution systems and means for control thereof. 4,700,123, 10-13-87, Cl. 323-210.000.

Belisle, Joseph A.: *See—*

Corbett, Marshall J.; and Belisle, Joseph A., 4,703,694, Cl. 102-374.000.

Belisle, Louis C.: *See—*

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Belk, Thomas J., to Ethyl Corporation. Generation of seed particles. 4,691,866, 9-8-87, Cl. 241-5.000.

Belka, Allen B.: *See—*

Wilson, Harold R.; and Belka, Allen B., 4,654,756, Cl. 361-428.000.

Belka, Heinrich, to ESGE-Marby GmbH & Co., KG. Bicycle luggage carrier frame. 4,658,998, 4-21-87, Cl. 224-39.000.

Belka, Heinrich, to ESGE-Marby GmbH & Co. KG. Vibration-resistant, self-centering accessory attachment for a cycle. 4,690,420, 9-1-87, Cl. 280-289.00A.

Belka, Heinrich, to ESGE-Marby GmbH & Co. KG. Environmentally protected electrical contact terminal arrangement for a plastic-metal-plastic laminated cycle fender. 4,708,665, 11-24-87, Cl. 439-551.000.

Belke, Robert E., Jr.; Shirk, Raymond A.; Lin, Hsiu H.; and Zakraysek, Louis, to General Electric Company. Metal core printed circuit board. 4,679,122, 7-7-87, Cl. 361-414.000.

Belkin, Nathan L., to Superior Surgical Mfg. Co., Inc. Anti-static device. 4,680,668, 7-14-87, Cl. 361-220.000.

Belknap, William M.; Chanasyk, Albert J.; O'Dell, Robert R., and Girard, Donald J., to NCR Corporation. Data transmitting and receiving apparatus. 4,710,871, 12-1-87, Cl. 364-200.000.

Belknap, William M.: *See—*

Heys, George, Jr.; Aleshire, Rex A.; Hines, Frank; and Belknap, William M., 4,682,325, Cl. 370-85.000.

Belko, Robert P.: *See—*

Sprecker, Mark A.; Wiegers, Wilhelmus J.; Belko, Robert P.; and Boden, Richard M., 4,643,903, Cl. 426-538.000.

Sprecker, Mark A.; Wiegers, Wilhelmus J.; Belko, Robert P.; and Boden, Richard M., 4,668,817, Cl. 560-126.000.

Sprecker, Mark A.; Wiegers, Wilhelmus J.; Belko, Robert P.; and Boden, Richard M., 4,681,976, Cl. 560-126.000.

Bell, A. Milton; Gamberg, Murray G.; and Kurzeja, Ronald, to Denpac Corp. Vacuum sintered powder alloy dental prosthetic device and oven to form same. 4,661,071, 4-28-87, Cl. 433-223.000.

Bell, A. Milton; Gamberg, Murray G.; and Kurzeja, Ronald, to Denpac Corp. High strength porcelain dental prosthetic device. 4,671,770, 6-9-87, Cl. 433-223.000.

Bell, Alan E.; and Spong, Fred W., to RCA Corporation. Optical video or data tape record and playback apparatus. 4,661,941, 4-28-87, Cl. 369-111.000.

Bell, Alan E., to RCA Corporation. Signal format for optical tape record/playback system. 4,669,070, 5-26-87, Cl. 369-44.000.

Bell, Albert H., III; and Johnson, Jesse F., to General Motors Corporation. Hybrid gas turbine rotor. 4,639,194, 1-27-87, Cl. 416-241.00B.

Bell, Allyn R.: *See—*

Brouwer, Walter G.; Bell, Allyn R., Blem, Allen R.; and Davis, Robert A., 4,675,044, Cl. 71-73.000.

Bell, Anthony E.: *See—*

Clark, William M., Jr.; Utlaut, Mark W.; Wysocki, Joseph A.; Storms, Edmund K.; Szklarz, Eugene G.; Behrens, Robert G.; Swanson, Lynwood W.; and Bell, Anthony E., 4,670,685, Cl. 313-230.000.

Bell, Anthony J., to Goodyear Tire & Rubber Company. The Direc method for preparing syndiotactic 1,2-polybutadiene. 4,645,8 2-24-87, Cl. 526-140.000.

Bell, Cecil R., Jr.; Thomas, Richard; London, Jasper R.; and Sizemore, Walter R., to Sara Lee Corporation. Coupon inserter for cartons. 4,658,564, 4-21-87, Cl. 53-250.000.

Bell, Cecil R., Jr.: *See—*

London, J. Reid; Bell, Cecil R., Jr.; Edwards, A. Russell; Lathery, Willie M.; Efird, Lee A.; Porter, Richard M.; Shaw, Stephen K.; Costello, Thomas J.; Pike, August A.; Bell, Donald G.; and Setliff, Harold, 4,640,162, Cl. 83-152.000.

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Bell, Clifford, to Keystone International, Inc. Data system. 4,701,9 10-20-87, Cl. 375-36.000.

Bell, Clifford J.: *See—*

Petrie, Edward M., and Bell, Clifford J., 4,699,573, Cl. 417-370.00

Bell Communications Research, Inc.: *See—*

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Blackwell, Catherine A.; Lakshmanan, Raman; and Subramanian Mahadevan, 4,710,870, Cl. 364-200.000.

Bowden, Murrae J. S.; and Gozdz, Antoni S., 4,657,841, Cl. 430-270.000.

Brecher, Sergio M., 4,661,975, Cl. 379-215.000.

Cheng, Steven S.; Lipson, Jan; and Personick, Stewart D., 4,658,394, Cl. 370-3.000.

Cheng, Steven S., 4,705,350, Cl. 350-96.160.

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Haller, Neil M.; and Smoot, Lanny S., 4,704,713, Cl. 370-3.000.

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Jackel, Janet L., 4,709,978, Cl. 350-96.140.

Karr, Michael A., III; and Levinson, Frank H., 4,647,146, Cl. 350-96.150.

Krishnan, Komandur R.; and Ott, Teunis J., 4,704,724, Cl. 379-221.000.

Miller, Stewart E., 4,639,922, Cl. 372-19.000.

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Miller, Stewart E., 4,680,769, Cl. 372-50.000.

Nemchek, George R., 4,661,971, Cl. 379-29.000.

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Sincoskie, Walter D., 4,706,080, Cl. 340-825.020.

Tarascon, Jean-Marie, 4,710,439, Cl. 429-194.000.

Walters, Stephen M., 4,658,152, Cl. 370-84.000.

Bell, Craig J., to Mallinckrodt, Inc. Self-sealing check valve. 4,653,5 3-31-87, Cl. 137-860.000.

Bell, David A.: *See—*

Holloway, Thomas C.; Tang, Thomas E.; Wei, Che-Chia; Haken, Roger A.; and Bell, David A., 4,657,628, Cl. 156-643.000.

Tang, Thomas E.; Wei, Che-Chia; Haken, Roger A.; Holloway, Thomas C.; and Bell, David A., 4,690,730, Cl. 156-643.000.

Bell, David E., and Babbs, Dennis G., to Cooper Industries. Drapery support system with decorative rod end support structure. 4,635,88 1-13-87, Cl. 248-265.000.

Bell, Donald: *See—*

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Bell, Donald G.: *See—*

London, J. Reid; Bell, Cecil R., Jr.; Edwards, A. Russell; Lathery, Willie M.; Efird, Lee A.; Porter, Richard M.; Shaw, Stephen K.; Costello, Thomas J.; Pike, August A.; Bell, Donald G.; and Setliff, Harold, 4,640,162, Cl. 83-152.000.

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Bell, Frank A.: *See—*

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Bell, Frank H., to Morton Thiokol, Inc. Mechanical bond between a solid rocket propellant composition and a substrate and a method of effecting such a bond. 4,649,823, 3-17-87, Cl. 102-289.000.

Bell, Frank H., to Morton Thiokol, Inc. Double-path detonation tube inertia igniter. 4,676,163, 6-30-87, Cl. 102-204.000.

Bell, Frank H.: *See—*

Kristofferson, Clifford E.; Fisher, Donald G.; Bell, Frank H.; and Wagner, William F., 4,650,617, Cl. 264-3.300.

Rogowski, Gerald W.; and Bell, Frank H., 4,660,475, Cl. 102-284.000.

Bell, George S. Transportation system. 4,703,697, 11-3-87, Cl. 104-23.100.

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Gorsuch, Roger K.; Bell, Gordon D.; Henke, Mitchell C.; Wibel, Michelle; Bratton, Ronald E.; and Lee, Effie J., 4,676,151, Cl. 99-450.000.

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Pfannkuch, Robert B.; Didriksen, Neil A.; and Rehklaw, George, 4,652,941, Cl. 360-18.000.

- Bell & Howell Company: *See—*
  - Baggarly, Brad A., and Scullion, Christopher K., 4,639,873, Cl. 364-466.000.
  - Bowles, Myron A., 4,705,157, Cl. 198-405.000.
  - Farina, John J., and O'Ishi, Takeo Z., 4,704,699, Cl. 364-525.000.
  - Hertel, Heinz E., 4,634,071, Cl. 242-71.100.
  - Hertel, Heinz E., 4,697,919, Cl. 355-27.000.
  - Kabb, Harold L.; Flint, John R.; Videlock, Gary B.; Niazi, Ishfaq A.; Hendrickson, Kenneth L.; Slutsky, Gary S.; Schwalb, Stuart F.; Carroll, John J., and Friedrich, Paul H., 4,699,504, Cl. 355-20.000.
  - Nordstrom, Eric W.; Bielik, Paul G.; and Carlson, Michael E., 4,653,890, Cl. 354-299.000.
  - Paske, Richard, Jr.; Pallmer, Michael; and King, William L., Jr., 4,707,297, Cl. 252-301.160.
  - Rattan, Dev R., and Parker, Robert R., 4,698,770, Cl. 364-900.000.
  - Svyatsky, Eduard, and Rabindran, K. George, 4,693,465, Cl. 271-274.000.
  - Vandersyde, Gary L., and Rabindran, K. George, 4,634,107, Cl. 270-56.000.
  - VanderSyde, Gary L., and Beatty, Paul, 4,669,716, Cl. 271-98.000.
  - Westover, Dwight G., 4,669,721, Cl. 271-272.000.
  - Westover, Dwight G., 4,679,905, Cl. 350-255.000.
  - Zemke, Edward H., deceased; Vandersyde, Gary L.; Rabindran, K. George; and Guenther, Kenneth L., 4,697,246, Cl. 364-563.000.
- Bell Industries, Inc.: *See—*
  - Schlosser, Mark S., 4,635,167, Cl. 362-85.000.
  - Schlosser, Mark S., 4,656,323, Cl. 200-68.100.
- Bell, Isaac M., and Hollinden, David E., to RCA Corporation. Plural input television receiver having peaking circuit and chrominance band reject filter in a video signal channel. 4,644,387, 2-17-87, Cl. 358-21.00R.
- Bell, Isaac M., to RCA Corporation. Delay and filter network with chrominance trap between series input resistors. 4,677,462, 6-30-87, Cl. 358-39.000.
- Bell, Isaac M., and Hollinden, David E., to RCA Corporation. Television receiver with display driver amplifier and input video filter having inversely related bandwidths. 4,689,663, 8-25-87, Cl. 358-21.00R.
- Bell, Isaac M., to RCA Corporation. Display driver amplifier with anti-saturation circuit. 4,704,631, 11-3-87, Cl. 358-188.000.
- Bell, Isaac M., to RCA Corporation. Temperature compensation apparatus for an electrical circuit. 4,716,315, 12-29-87, Cl. 307-491.000.
- Bell, James A.: *See—*
  - Coates, Ian H.; Bell, James A.; Humber, David C.; and Ewan, George B., 4,695,578, Cl. 514-397.000.
- Bell, James A. E., and Krause, Eberhard, to Inco Limited. Scrubbing of sulfur dioxide with lime slags. 4,657,746, 4-14-87, Cl. 423-242.000.
- Bell, James C.: *See—*
  - Busam, Vincent A.; Bell, James C.; and Holcombe, Wayne T., 4,647,721, Cl. 379-102.000.
- Bell, James R., Jr., to Manchester R & D Partnership. Encapsulated liquid crystal and filler material. 4,643,528, 2-17-87, Cl. 350-334.000.
- Bell, John, to Rosenberg, Gordon W. Cross-coupling drive circuit. 4,667,136, 5-19-87, Cl. 318-51.000.
- Bell, John H., and Spector, George. Heated traction belt. 4,643,173, 2-17-87, Cl. 128-68.100.
- Bell, John L.; Isaman, David L.; and Osman, Fazil I., to Burroughs Corporation. Method of inserting and removing isochronous data into a sequence of nonisochronous data characters without slot allocation on a computer network. 4,637,014, 1-13-87, Cl. 370-89.000.
- Bell, John R., III; Hodges, Robert E., Jr., and Martin, Harold E., to AMCA International Corporation. Subpurlin and attachment assembly. 4,676,042, 6-30-87, Cl. 52-543.000.
- Bell, John R., III: *See—*
  - Hodges, Robert E.; Bell, John R., III, and Helgesen, Peter E., 4,651,489, Cl. 52-409.000.
- Bell, Joseph P. Antenna extended surface attachment. 4,692,772, 9-8-87, Cl. 343-899.000.
- ell, Julie D.; and Dormandy, Ray H., Jr., to Mentor Corporation. Self-sealing valve for fluid fillable device. 4,662,883, 5-5-87, Cl. 623-8.000.
- ell, L. James, to Pettersson, O. Ruben. Door jammer lock. 4,657,293, 4-14-87, Cl. 292-258.000.
- ell, Larry. Sea rescue kit for deployment from a helicopter. 4,690,650, 9-1-87, Cl. 441-40.000.
- ell, Malcolm R., to Sterling Drug Inc. 3-arylcarbonyl-and 3-cycloalkylcarbonyl-1-aminoalkyl-1H-indoles. 4,634,776, 1-6-87, Cl. 548-493.000.
- ell, Malcolm R.: *See—*
  - Christiansen, Robert G.; Bell, Malcolm R.; Herrmann, John L., Jr.; and Opalka, Chester J., Jr., 4,684,636, Cl. 514-176.000.
- ell, Marl J.: *See—*
  - Millerd, Donald L.; and Bell, Marl J., 4,705,998, Cl. 318-444.000.
- ll, Michael. Milk dispenser. 4,651,898, 3-24-87, Cl. 222-129.000.
- ll, Michael F.; Nicholson, Patrick S.; Sayer, Michael; and Yamashita, Kimihiro, to Canadian Patents and Developments Limited. Method of converting a precursor ceramic solid into a solid ceramic hydronium conductor. 4,689,126, 8-25-87, Cl. 204-130.000.
- ll Microsensors, Inc.: *See—*
  - Bell, Robert L., 4,670,733, Cl. 338-36.000.
- ll, Noel G. Traveling trench shore. 4,695,204, 9-22-87, Cl. 405-283.000.
- ll-Northern Research Ltd.: *See—*
  - Lukas, Helmut H.; and Pacey, Grant K., 4,687,287, Cl. 350-96.200.
- Bell of Pennsylvania: *See—*
  - McDermott, Michael G., 4,695,926, Cl. 361-395.000.
- Bell, Perry W.: *See—*
  - Hopkins, William M.; Bell, Perry W.; Carolla, Russell A.; Gerspacher, Jon A.; Shepler, Peter R.; and Wells, Thomas H., 4,688,617, Cl. 152-554.000.
- Bell, R. Frank; and Wilcox, Roger V., to Hewlett-Packard Company. Method and apparatus for eliminating apparent offset in the servo code in a magnetic disc drive. 4,669,003, 5-26-87, Cl. 360-77.000.
- Bell, Randy L.; and Moore, George G. I., to Riker Laboratories, Inc. Di-t-butylphenols substituted by a thenoyl group. 4,677,113, 6-30-87, Cl. 514-448.000.
- Bell, Randy L.; and Moore, George G. I., to Riker Laboratories, Inc. Antiallergic agents. 4,714,776, 12-22-87, Cl. 562-460.000.
- Bell, Raymond T.; and Morcom, Christopher J., to General Electric Company, p.l.c., The. Image sensors. 4,651,215, 3-17-87, Cl. 358-213.000.
- Bell, Raymond W. H., to Dunlop Limited. Flexible, flame-retardant polyurethane foams. 4,698,369, 10-6-87, Cl. 521-99.000.
- Bell, Richard; Hallam, Paul D.; and Foxton, Michael W., to Glaxo Group Limited. 3-(Optionally substituted-but-1-en-3-ynyl) cephalosporins. 4,666,899, 5-19-87, Cl. 514-200.000.
- Bell, Robert K.: *See—*
  - Hodsdon, Roy F.; and Bell, Robert K., 4,642,735, Cl. 361-424.000.
- Bell, Robert L., to Bell Microsensors, Inc. Differential pressure transducer. 4,670,733, 6-2-87, Cl. 338-36.000.
- Bell, Robert L., to Fisher Dynamics Corporation. Quick release mechanism for gear operated seat recliner. 4,684,174, 8-4-87, Cl. 297-367.000.
- Bell, Robert L.; and Secord, Tyrone R., to Fisher Dynamics Corporation. Seat recliner mechanism with spring coil actuator and redundant positioning. 4,687,252, 8-18-87, Cl. 297-374.000.
- Bell, Robert L., to Fisher Dynamics Corporation. Seat recliner mechanism with spring coil actuator and creep eliminator feature. 4,705,319, 11-10-87, Cl. 297-362.000.
- Bell, Robert L.; and Dillon, Joseph J., to Rappel Rescue Systems, Inc. Rappel rescue system. 4,714,135, 12-22-87, Cl. 182-6.000.
- Bell, Ronald D. L. Microwave oven warning device. 4,692,580, 9-8-87, Cl. 219-10.55M.
- Bell, Ronald F.: *See—*
  - Potter, Charles; Bell, Ronald F.; and Tosill, John M., 4,715,517, Cl. 222-181.000.
- Bell, Ross A.; and Abila, Ernesto M., to Maloney Pipeline Products Company. Magnetic actuator for mechanical indicator of change of state in a pressurizeable system. 4,658,646, 4-21-87, Cl. 73-432.100.
- Bell, Stanley C.: *See—*
  - Bandurco, Victor T.; Bell, Stanley C.; Combs, Donald W.; Falotico, Robert; and Tobia, Alfonso J., 4,639,518, Cl. 544-285.000.
  - Bandurco, Victor T.; Bell, Stanley C.; Falotico, Robert; Schwender, Charles F.; and Tobia, Alfonso J., 4,668,787, Cl. 544-286.000.
  - Bandurco, Victor T.; Bell, Stanley C.; Dodd, John H.; Falotico, Robert; Schwender, Charles F.; and Tobia, Alfonso J., 4,672,116, Cl. 544-286.000.
- Bell, Steven R.: *See—*
  - Sutphin, Richard C.; Bell, Steven R.; and Mursell, Kurt, 4,710,694, Cl. 320-21.000.
- Bell, Stuart D. Trolling motor battery connector system. 4,649,332, 3-10-87, Cl. 320-7.000.
- Bell Telephone Laboratories, Incorporated: *See—*
  - Bhatia, Rajiv; and Kneuer, Joseph G., 4,672,604, Cl. 370-58.000.
  - Choi, Jae H.; Kanotz, William M.; and Vesperman, William C., 4,656,091, Cl. 428-383.000.
  - Crupi, Joseph A.; Hayward, David J.; and Jones, David F., 4,703,416, Cl. 364-200.000.
  - Fisanick, Georgia J.; Gross, Michal E.; and Wolk, Gary L., 4,636,403, Cl. 427-53.100.
  - Hopfield, John J., 4,660,166, Cl. 364-807.000.
  - Ling, Hung C.; Rhodes, Warren W., and Yan, Man F., 4,637,989, Cl. 501-135.000.
  - Ling, Hung C.; and Yan, Man F., 4,638,401, Cl. 361-321.000.
  - McPherson, Ross; Smolik, Kenneth F.; and Thomson, David J., 4,698,769, Cl. 364-724.000.
  - Torok, Gabor P.; and White, Andrew B., 4,694,472, Cl. 375-107.000.
  - Zave, Derek A., 4,685,125, Cl. 379-96.000.
- Bell, Theodore F., Sr. Index tables. 4,684,114, 8-4-87, Cl. 269-57.000.
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- Bell, Vernon L., to United States of America, National Aeronautics and Space Administration. Polyether-polyester graft copolymer. 4,711,932, 12-8-87, Cl. 525-397.000.
- Bell, Weldon K.; Haag, Werner O.; Kirker, Garry W.; and Klocke, Donald J., to Mobil Oil Corporation. Low nitrogen iron-containing Fischer-Tropsch catalyst and conversion of synthesis gas therewith. 4,686,313, 8-11-87, Cl. 585-327.000.
- Bell, Weldon K.; and Haag, Werner O., to Mobil Oil Corporation. Production of ethers from linear olefins. 4,714,787, 12-22-87, Cl. 568-697.000.
- Bell, William D.: *See—*
  - Prunesti, James; Bell, William D.; Gannaway, Jane P.; O'Boyle, Dolores; and Tedeschi, Anthony, 4,701,964, Cl. 2-406.000.

Bell, William E.; and Collins, George J., to Lasertechnics, Inc. Dual beam gas ion laser. 4,680,770, 7-14-87, Cl. 372-99.000.

Bell, William H.: *See*—
  Lynch, David D., Jr.; and Bell, William H., 4,641,801, Cl. 244-3.140.

Bella, Anton: *See*—
  Osmera, Miroslav S.; Bella, Anton; Kallin, Fredrik L. N.; and Evans, Edward R., 4,648,591, Cl. 271-305.000.

Bellamy, A. Keith, to Digital Equipment Corporation. Apparatus and method for compensation of thermal expansion of cooling fluid in enclosed electronic packages. 4,700,272, 10-13-87, Cl. 361-385.000.

Bellamy, Francois: *See*—
  Majoie, Bernard; Bellamy, Francois; Dodey, Pierre; and Robin, Jacques, 4,680,402, Cl. 546-235.000.

Bellamy, Norman W., to Sea Energy Associates Limited. Apparatus for extracting energy from the waves in a body of liquid. 4,675,536, 6-23-87, Cl. 290-42.000.

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  Braithwaite, Richard W.; Smith, Graham M.; Bellamy, Norman W.; and Gergely, Stephen, 4,665,995, Cl. 175-45.000.

Bellanca, Guido. Pasta preparation apparatus. 4,656,934, 4-14-87, Cl. 99-348.000.

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  Oeschger, Max P.; Hooke, Anne M.; and Bellanti, Joseph A., 4,681,762, Cl. 424-92.000.

Bellapadrona, Silvano. Oleopneumatic suspension for vehicles, suitable in particular for motorcycles. 4,687,187, 8-18-87, Cl. 267-64.180.

Bellaplast GmbH: *See*—
  Jahnen, Ludwig; and Dahler, Manfred, 4,705,857, Cl. 206-503.000.

Bellar, Dennis R., to Laser Photonics, Inc. Laser beam scanning device and marking system. 4,636,043, 1-13-87, Cl. 350-484.000.

Bellars, Terence G. Tractor mounted rotary cutting equipment. 4,709,736, 12-1-87, Cl. 144-2.00N.

Bellati, Patrizia, to Co.Pro.San. S.r.l. Pneumatic tractor for the treatment of deformities of the spine. 4,669,455, 6-2-87, Cl. 128-78.000.

Bellavance, Joseph T.; and Price, William J., to Signetics Corporation. Programmable status register arrangement. 4,636,978, 1-13-87, Cl. 364-900.000.

Bellavia, William D.; and Missert, William, to Missert, William. Method and device for establishing new dental occlusal scheme for patient. 4,710,127, 12-1-87, Cl. 433-215.000.

Bellay, Jeffrey D.; and Powell, Theo J., to Texas Instruments Incorporated. Partitioned scan-testing system. 4,710,931, 12-1-87, Cl. 371-25.000.

Bellay, Jeffrey D.: *See*—
  Powell, Theo J.; Bellay, Jeffrey D.; Daniels, Martin D.; and Hwang, Yin-Chao, 4,710,933, Cl. 371-25.000.

Belle, Jean P., to Gitral S.A. Tank having two half shells. 4,667,841, 5-26-87, Cl. 220-22.000.

Belle-Oudry, Michael: *See*—
  De Luca, Paul V.; Shaskan, Paul; and Belle-Oudry, Michael, 4,649,456, Cl. 361-119.000.

Belleau, Gordon F.; Jelcin, Michael J.; and Verga, Charles F., to General Motors Corporation. Method of forming truck cab frames. 4,695,342, 9-22-87, Cl. 156-173.000.

Bellefleur, Richard N., to Bath Iron Works Corporation. Mini wire feeder. 4,665,300, 5-12-87, Cl. 219-137.200.

Bellenger, Donald M., to Buscom Systems, Inc. Single tone telephone receiver. 4,675,898, 6-23-87, Cl. 379-97.000.

Beller, Eva: *See*—
  Antal nee Magyar, Zsuzsanna; Beller, Eva; Boross, Laszlo; Daroczi, Ivan; Kalman, Miklos; Suto, Imre; and Szajani, Bela, 4,670,390, Cl. 435-180.000.

Beller, Frank W., to Belson Manufacturing Co., Inc. Hood hinge assembly for outdoor cooking device. 4,649,599, 3-17-87, Cl. 16-332.000.

Beller, Frank W., to Belson Manufacturing Co., Inc. Mesquite burning outdoor cooking device. 4,690,125, 9-1-87, Cl. 126-25.00A.

Beller, I.: *See*—
  Beller, Isi; and Fradin, Boris, 4,708,657, Cl. 434-185.000.

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Beller, Joseph K.: *See*—
  Kennedy, Bruce L.; Beller, Joseph K.; and Modjeski, Roger A., 4,644,289, Cl. 330-145.000.

Bellersen, Martin E.: *See*—
  McElfresh, Mark W.; and Bellersen, Martin E., 4,660,231, Cl. 4-228.000.

Bellet, Richard J.; Broyer, Ephraim; Bekker, Alex Y.; and Lace, Melvin A., to Amphenol Corporation. Method of compressively molding articles from resin coated filler materials. 4,708,839, 11-24-87, Cl. 264-85.000.

Belleville, Ernest L.; and Gaudreau, Laurent R., to Ex-Cell-O Corporation. Apparatus for reducing waste in a plastic mold. 4,683,098, 7-28-87, Cl. 264-302.000.

Bellex Corporation: *See*—
  Inada, Yuji, 4,645,741, Cl. 435-134.000.

Bellheimer Metallwerk GmbH: *See*—
  Blesinger, Hans R., 4,645,885, Cl. 191-45.00R.
  Schmitz, Joachim; Wagner, Franz; and Siegler, Adrian, 4,676,560, Cl. 312-268.000.

Bellhouse, Brian J. Transfer membrane apparatus. 4,636,309, 1-13-87, Cl. 210-321.300.

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Bellhouse, Brian J. Optical assay method for stored human platelets. 4,657,383, 4-14-87, Cl. 356-39.000.

Bellhouse, Brian J.; Pugh, Sydney M.; and Derrick, Maxwell R., to Bellhouse Medical Products Limited. Blood monitoring system. 4,675,019, 6-23-87, Cl. 604-408.000.

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Bellhouse Medical Products Limited: *See*—
  Bellhouse, Brian J.; Pugh, Sydney M.; and Derrick, Maxwell R., 4,675,019, Cl. 604-408.000.

Belli, Andrea, to AVE S.p.A. Outlet box with removable self-contained device. 4,636,914, 1-13-87, Cl. 361-331.000.

Bellieni, Lucio, to Airbox S.r.l. Adjustable support for smoke- or fume-exhausters and the like. 4,699,046, 10-13-87, Cl. 98-115.400.

Bellin, Matthew E.: *See*—
  Marino, Joseph A., Jr.; and Bellin, Matthew E., 4,634,434, C 604-246.000.

Bellinger, Carnot E., to Phillips Petroleum Company. Process for improved recovery of paraxylene. 4,670,618, 6-2-87, Cl. 585-478.00

Bellingham, Ronald S.; and White, Malcolm J., to Chubb & Son's Lock and Safe Company Limited. Shackle mechanisms. 4,694,666, 9-22-87, Cl. 70-16.000.

Bellini, Enrica. Automatic bag-loading attachment for rotary bag-filling machines. 4,648,234, 3-10-87, Cl. 53-67.000.

Bellini, Francesco; Sestanj, Kazimir; and Kraml, Michael, to American Home Products Corporation. N[[5-(trifluoromethyl)-6-methoxy-1-naphthalenyl]-thioxomethyl]-N-methylglycinamides. 4,672,0 6-9-87, Cl. 514-62.000.

Bellini, Francesco: *See*—
  Sestanj, Kazimir; Abraham, Nedumparambil A.; Bellini, Francesco; and Treasurywala, Adi, 4,705,882, Cl. 560-10.000.

Bellini, Mario, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument having cover with operation panel. 4,635,52 1-13-87, Cl. 84-177.000.

Bellini, Mario, to Nippon Gakki Seizo Kabushiki Kaisha. Housing structure of keyboard musical instrument. 4,674,385, 6-23-87, C 84-177.000.

Bellini, Omero; Mantovani, Lucio; and Menini, Giulio, to LOGIC s.r.l. Apparatus and method for filling bottles, flacons or the like container with a predetermined weight amount of a fluid. 4,676,282, 6-30-87, C 141-1.000.

Bellis, Harold E.; and McBride, Edward F., to Du Pont de Nemours, E. I., and Company. Composition and method for temporarily reducing permeability of subterranean formations. 4,715,967, 12-29-87, C 252-8.551.

Bellis, Kenneth E.; Brown, Jackson E.; and Nagarwalla, Pheroze J., to Roberts Corporation. Method and apparatus for changing a mold box on a molding machine. 4,714,100, 12-22-87, Cl. 164-18.000.

Bellmatic, Ltd.: *See*—
  Suzuki, Hideo, 4,645,686, Cl. 427-48.000.

Bellmore-Johnson Tool Company, The: *See*—
  Stevens, Frederick F., 4,646,458, Cl. 42-46.000.

Bellofram Corporation: *See*—
  Athanassiu, Christos, 4,674,526, Cl. 137-113.000.
  St. Laurent, Wilfred; and Athanassiu, Christos, 4,705,458, Cl. 417-46.000.

Bellomo, Paolo: *See*—
  Franchin, Franco; and Bellomo, Paolo, 4,655,021, Cl. 52-641.000.

Bellos, Thomas J.; and Redmore, Derek, to Petrolite Corporation. Water soluble biocides. 4,671,815, 6-9-87, Cl. 71-67.000.

Bellotti, Marc C.; and Schnell, William J., to Baxter Travenol Laboratories, Inc. Connection device. 4,655,753, 4-7-87, Cl. 604-283.000.

Bellotto, Carlo; Cimenti, Antonio; and Polo, Ermes. Machine for transforming a piece of dough of globoidal form into a substantially circular-shaped puff-pastry, which may be particularly employed for preparing food-stuffs of various kinds. 4,636,164, 1-13-87, Cl. 425-337.000.

Bellows, James C.: *See*—
  Kemper, Christian T.; Bellows, James C.; and Kleinosky, Pamela J., 4,644,479, Cl. 364-550.000.

Bellsouth Corporation: *See*—
  Gunn, William L.; and Hull, Gerry G., 4,643,107, Cl. 109-48.000.

Bellucci, George N.: *See*—
  Harrison, David M.; Gentili, Robert P.; and Bellucci, George N., 4,683,922, Cl. 141-9.000.

Bellus, Daniel: *See*—
  Alder, Alex; Stanek, Jaroslav; and Bellus, Daniel, 4,677,129, Cl. 514-299.000.

Bellus, Peter A.; and Frenchik, Robert A., to Minnesota Mining and Manufacturing Company. Photothermographic accelerators for leuco diazine, oxazine, and thiazine dyes. 4,670,374, 6-2-87, Cl. 430-505.000.

Bellussi, Giuseppe; Buonomo, Franco; Esposito, Antonio; Clerici, Mario; Romano, Ugo; and Notari, Bruno, to Enichem Sintesi S.p.A. Catalyst of silicon and titanium having high mechanical strength and a process for its preparation. 4,701,428, 10-20-87, Cl. 502-8.000.

Bellussi, Giuseppe: *See*—
  Brunelli, Maurizio; Ferrari, Pierferdinando; Stroppa, Fabrizio; and Bellussi, Giuseppe, 4,654,446, Cl. 568-630.000.
  Taramasso, Marco, deceased; Notari, Bruno; Manara, Giovanni; and Bellussi, Giuseppe, 4,687,654, Cl. 423-329.000.

Belluteau, Jean-Pierre; Bocard, Christian; Such, Christian; and Vaillant, Daniel, to Institut Francais du Petrole, and Laboratoire Central des Ponts et Chaussees. Method usable in particular for washing and desorbing solid products containing hydrocarbons. 4,678,558, 7-7-87, Cl. 208-390.000.

Belmares-Sarabia, Armand; and Chayka, Stanley J., to Corporate Communications Consultants, Inc. Color correction system and method with localized color sampling. 4,679,067, 7-7-87, Cl. 358-29.000.

Belmares-Sarabia, Armand; and Chayka, Stanley J., to Corporate Communications Consultants, Inc. Color correction system and method with scene-change detection. 4,694,329, 9-15-87, Cl. 358-22.000.

Belmondo, Domenico, to Dobell S.a.s. di Domenico Belmondo & C. Holder for a number of writing implements. 4,648,505, 3-10-87, Cl. 206-214.000.

Beloev, Marin G.: *See—*
- Garlanov, Dimo T.; Dimitrov, Dimiter A.; Beloev, Marin G.; Hlebarov, Vladimir P.; Vangelov, Ivan V.; Nikov, Nikolay Y.; and Savov, Ivan S., 4,691,090, Cl. 219-121.0PC.

Belofsky, Harold: *See—*
- Washkewicz, Donald E.; and Belofsky, Harold, 4,699,178, Cl. 138-125.000.

Belohoubek, Erwin F.; and Bechtle, Daniel W., to RCA Corporation. Radial power amplifier. 4,641,106, 2-3-87, Cl. 330-286.000.

Beloit Corporation: *See—*
- Allard, Andre, 4,679,287, Cl. 29-116.0AD.
- Arav, Ronnie A., 4,671,546, Cl. 285-368.000.
- Bielagus, Joseph B., 4,653,648, Cl. 209-672.000.
- Cooke, Ronald D., 4,686,777, Cl. 34-116.000.
- Cronin, Dennis C., 4,704,192, Cl. 162-360.100.
- Ellery, John M., Sr., 4,661,911, Cl. 364-471.000.
- Gobel, Richard; and Bielagus, Joseph B., 4,703,860, Cl. 209-672.000.
- Justus, Edgar J., 4,685,183, Cl. 29-116.0AD.
- Moen, Carl J., 4,637,434, Cl. 137-625.660.
- Roerig, Arnold J.; and Shockley, Steven C., 4,673,461, Cl. 162-205.000.
- Smith, William C., 4,658,965, Cl. 209-672.000.
- Wedel, Gregory L., 4,669,198, Cl. 34-23.000.
- Wedel, Gregory L., 4,698,919, Cl. 34-117.000.
- Wedel, Gregory L.; Fosler, Robert C.; and Garvin, Stanley P., Jr., 4,700,493, Cl. 34-48.000.
- Wedel, Gregory L., 4,704,191, Cl. 162-358.000.
- Wywailowski, Frank J.; and Orange, Robert J., 4,662,398, Cl. 137-625.400.

Belonosov, Vladimir I.: *See—*
- Maximov, Gennady K.; Brusnikin, Arkady F.; Belonosov, Vladimir I.; Popova, Roza A.; Fux, Vladimir S.; Kagan, Vladimir M.; Uralskaya, Silvia L.; and Orlova, Nadezhda P., 4,702,069, Cl. 57-417.000.

Belorussky Politekhnichesky Institut: *See—*
- Lyakhevich, Geurkh D.; Khimanych, Anatoly P.; Suzansky, Vasily G.; and Kovalerchik, Vulf P., 4,686,007, Cl. 201-3.000.

Belot, Dominique; Rade, Jean-Yves; Piffard, Jean-Francois; Larquet, Christian; and Cornut, Philippe, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Process and the apparatus for the production of silicon hydrides. 4,698,218, 10-6-87, Cl. 423-347.000.

Belouet, Christian, to Compagnie Generale d'Electricite; and Societe Nationale Elf Aquitaine. Method and apparatus for drawing a tape constituted by a support coated in a layer of semiconductor material, said tape being drawn from a liquid bath of said material. 4,695,480, 9-22-87, Cl. 437-225.000.

Below, Randy; Burke, Howard; and Thomas, Stephen M., to Siemon Company, The. Multi-purpose modular jack connecting block. 4,712,234, 12-8-87, Cl. 379-399.000.

Belsanti, James F., to Navistar International Corporation. Engine rocker arm assembly. 4,653,441, 3-31-87, Cl. 123-90.390.

Belshaw Bros., Inc.: *See—*
- Belshaw, Thomas E.; Woodworth, Frederick G.; and Wilke, Wilbur D., 4,699,796, Cl. 426-438.000.

Belshaw, Thomas E.; Woodworth, Frederick G.; and Wilke, Wilbur D., to Belshaw Bros., Inc. Process for moving food objects through a frying tank. 4,699,796, 10-13-87, Cl. 426-438.000.

Belshee, Rodney B.: *See—*
- Houda, Pavel; Springer, Richard A.; and Belshee, Rodney B., 4,660,029, Cl. 340-744.000.

Belsole, Susan C., to Warner-Lambert Company. Transdermal delivery system for administration of nitroglycerin. 4,696,821, 9-29-87, Cl. 424-448.000.

Belson Manufacturing Co., Inc.: *See—*
- Beller, Frank W., 4,649,599, Cl. 16-332.000.
- Beller, Frank W., 4,690,125, Cl. 126-25.00A.

Belszek, Henry: *See—*
- Murphy, Michael; and Belszek, Henry, 4,704,827, Cl. 52-34.000.

Belt, Angela: *See—*
- Hunter, Jennie C.; Belt, Angela; Sotos, Lynn S.; and Fonda, Michelle E., 4,707,447, Cl. 435-132.000.

Belt, Kenneth W.: *See—*
- Schaefer, Daniel J.; and Belt, Kenneth W., 4,712,560, Cl. 128-653.000.

Belter, Robert E., to Kyocera International, Inc. EMI filter connector block. 4,660,907, 4-28-87, Cl. 339-14.00R.

Belthle, Heinz, to Schaudt Maschinenbau GmbH. Method of profiling and dressing grinding wheels. 4,696,130, 9-29-87, Cl. 51-293.000.

Belton Corporation: *See—*
- Smuckler, Jack H., 4,668,857, Cl. 219-549.000.

Beltone Electronics Corporation: *See—*
- Moy, Alexander, 4,647,899, Cl. 338-309.000.

Beltramini, Giorgio, to North Bel S.p.A. Rotating tool for dentistry. 4,661,064, 4-28-87, Cl. 433-166.000.

Beltran, Adrian M.: *See—*
- Lenz, Henry G.; Coffman, Leonard; and Beltran, Adrian M., 4,679,314, Cl. 29-598.000.
- Lenz, Henry G.; Coffman, Leonard; and Beltran, Adrian M., 4,692,644, Cl. 310-178.000.

Beltronics, Inc.: *See—*
- Bishop, Robert, 4,649,424, Cl. 357-84.000.
- Bishop, Robert, 4,697,088, Cl. 250-561.000.

Beltway Construction, Inc.: *See—*
- Bills, Randall C.; Bumgardner, Teddy E.; Monroe, Lusbert L.; and Zimmermann, Jeffery D., 4,708,222, Cl. 187-1.00R.

Beltz, Robert J.; and Dankoff, Joseph D. High speed steel sintering powder made from reclaimed grinding sludge and objects sintered therefrom. 4,705,565, 11-10-87, Cl. 75-235.000.

Belusa, Manfred L., to Belvin Properties Limited. Monitoring of fluid flow. 4,705,457, 11-10-87, Cl. 417-22.000.

Belvedere, Mark S. Flexible wing rib sail. 4,649,848, 3-17-87, Cl. 114-103.000.

Belvin Properties Limited: *See—*
- Belusa, Manfred L., 4,705,457, Cl. 417-22.000.

Belyaev, Sergei V.: *See—*
- Debabov, Vladimir G.; Tsygankov, Jury D.; Chistoserdov, Andrei J.; Sverdlov, Evgeny D.; Izotova, Lara S.; Kostrov, Sergei V.; Sterkin, Viktor E.; Kuznetsov, Vladimir P.; Belyaev, Sergei V.; Monastyrskaya, Galina S.; Salomatina, Irina S.; Dolganov, Grigory M.; Arsenian, Sergei G.; Tsarev, Sergei A.; Kozlov, Jury I.; Strongin, Alexandr Y.; Ogarkov, Vsevolod I.; and Ovchinnikov, Jury A., 4,680,260, Cl. 435-68.000.

Belz, Roland K., to RB Kunststoffpatent-Verwertungs AG. Composite foil. 4,671,982, 6-9-87, Cl. 428-90.000.

Belzen, David V.: *See—*
- Aberle, Thomas; Belzen, David V.; and Krauter, Immanuel, 4,704,654, Cl. 361-90.000.

Belzer-Dowidat GmbH Werkzeug-Union: *See—*
- Bronder, Walter; and Spiekers, Gerd, 4,647,111, Cl. 299-79.000.

Beman, Ellie. Invisible seam assembly and modular outfit. 4,658,443, 4-21-87, Cl. 2-105.000.

Beman, Ward W., to Bemax Corporation. Mechanism utilizing resilient energy. 4,664,540, 5-12-87, Cl. 400-121.000.

Bemax Corporation: *See—*
- Beman, Ward W., 4,664,540, Cl. 400-121.000.

Bement, Laurence J., and Bailey, James W., to United States of America, National Aeronautics and Space Administration. Tool and process for miniature explosive joining of tubes. 4,708,280, 11-24-87, Cl. 228-107.000.

Bemis Company, Inc.: *See—*
- Perazzo, Nicholas J., 4,715,412, Cl. 141-1.000.

Bemis, Gerald L., to Advanced Micro Devices, Inc. Overflow/Underflow detection for elastic buffer. 4,692,894, 9-8-87, Cl. 364-900.000.

Bemis, Gerald L., to Advanced Micro Devices, Inc. Communication data encoder/decoder component system architecture. 4,703,486, 10-27-87, Cl. 371-41.000.

Ben-Asher, Eldad. Electro-mechanical locking device. 4,702,095, 10-27-87, Cl. 70-279.000.

Ben-Bassat, Arie; Dorin, Glenn; Bauer, Keith; and Lin, Leo, to Cetus Corporation. Method of improving the yield of heterologous protein produced by cultivating recombinant bacteria. 4,656,132, 4-7-87, Cl. 435-68.000.

Ben Clements & Sons, Inc.: *See—*
- Dilley, Gerald G., 4,655,264, Cl. 140-93.600.
- Furutsu, Akira, 4,683,920, Cl. 140-93.00A.
- Won, Yong K., 4,648,531, Cl. 221-232.000.

Ben-Dayan, Nissim: *See—*
- Gran, Paul; Feiner, Haim; Ben-Dayan, Nissim; Stefaniu, Marian; and Mar-Chaim, Yechiam, 4,638,453, Cl. 364-900.000.

Ben-Dov, Oded, to Sola Basic Industries, Inc. Method of fabricating doubly-truncated circular waveguide. 4,654,962, 4-7-87, Cl. 29-600.000.

Ben-Gal, Ofer; and Sabatov, Nissim. Labyrinth puzzle. 4,685,679, 8-11-87, Cl. 273-153.00R.

Ben, Ivo D.: *See—*
- Facchini, Edoardo; and Ben, Ivo D., 4,665,681, Cl. 53-520.000.

Ben-Jac, Inc.: *See—*
- Kenny Sr., Patrick M., 4,697,958, Cl. 405-228.000.

Ben-Meir, Shachar: *See—*
- Danino, David; and Ben-Meir, Shachar, 4,651,992, Cl. 273-155.000.

Ben-Shmuel, Dan; and Zacuto, Philip, to Heat Extractor, Inc. Heat extractor. 4,651,923, 3-24-87, Cl. 237-53.000.

Benaim, Carlos: *See—*
- Warren, Craig B.; Munteanu, Marina A.; Schwartz, Gary E.; Benaim, Carlos; Walter, Henry G., Jr.; Leight, Ronald S.; Withycombe, Donald A.; Mookherjee, Braja D.; and Trenkle, Robert W., 4,670,264, Cl. 424-195.100.
- Warren, Craig B.; Munteanu, Marina A.; Schwartz, Gary E.; Benaim, Carlos; Walter, Henry G., Jr.; Leight, Ronald S.; Withycombe, Donald A.; Mookherjee, Braja D.; and Trenkle, Robert W., 4,670,463, Cl. 514-464.000.
- Warren, Craig B.; Munteanu, Marina A.; Schwartz, Gary E.; Benaim, Carlos; Walter, Henry G., Jr.; Leight, Ronald S.; Withycombe, Donald A.; Mookherjee, Braja D.; and Trenkle, Robert W., 4,671,959, Cl. 424-195.100.

Benaim, Prosper. Question-and-answer game. 4,657,248, 4-14-87, Cl. 273-1.00R.

- Benajam, Alain C. A., to Le Materiel Biomedical. Reaction support incorporating multiple recipients for testing liquid doses. 4,656,009, 4-7-87, Cl. 422-102.000.
- Benajam, Alain C. A., to Societe a Responsabilite Limitee dite: Le Materiel Biomedical. Device for detecting and quantifying agglutinates. 4,687,638, 8-18-87, Cl. 422-73.000.
- Benander, Robert E.; and Holzl, Robert A., to Air Products and Chemicals, Inc. Deposition of titanium aluminides. 4,698,244, 10-6-87, Cl. 427-253.000.
- Benander, Robert E.: *See*—
  - Holzl, Robert A.; and Benander, Robert E., 4,716,064, Cl. 428-73.000.
- Benaroya, Henry. Multi-tandem free piston machine. 4,678,407, 7-7-87, Cl. 417-341.000.
- Benayad-Cherif, Faycal E.: *See*—
  - Maddox, James F.; Kadonoff, Mark B.; Berger, Alan D.; Taivalkoski, Amy L.; George, Robert W., II; and Benayad-Cherif, Faycal E., 4,710,020, Cl. 356-1.000.
- Benbassat, Gerard V.; and Serain, Daniel, to Texas Instruments Incorporated. General technique to add multi-lingual speech to videotex systems, at a low data rate. 4,700,322, 10-13-87, Cl. 364-513.500.
- Benboid Pty Ltd.: *See*—
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Fanget, Paul, 4,662,796, Cl. 405-296.000.
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Bennett, Alan F.; and Gooderham, Roy J., to Spirax Sarco Limited. Thermodynamic steam trap valve discs. 4,660,760, 4-28-87, Cl. 236-59.000.

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Bennett, John E.: *See—*
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nnett, Terry A.; and Carino, James E., to PPG Industries, Inc. Vacuum press construction. 4,714,489, 12-22-87, Cl. 65-104.000.

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oist, Francois: *See—*

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Bensadoun, Michel. Liquid rheostat with circulating electrolyte. 4,670,735, 6-2-87, Cl. 338-81.000.

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Bentley, Jeffrey A., to Aerovox Incorporated. Electrical capacitor. 4,656,558, 4-7-87, Cl. 361-327.000.
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Bentonspritz Nascgubeb GmbH Co.: *See—*
  Roehl, Franz, 4,690,328, Cl. 239-227.000.
Bentsen, Per, to Minigrip, Inc. Material for making three reclosable bag sections from extruded plastic material. 4,635,294, 1-6-87, Cl. 383-37.000.
Bentsen, Per, to Minigrip, Inc. Double funnel bag material and method. 4,651,504, 3-24-87, Cl. 53-452.000.
Bentsen, Per, to Minigrip, Incorporated. Fusible rib bonding of fasteners to substrate. 4,673,383, 6-16-87, Cl. 493-381.000.
Bentsen, Per: *See—*
  Ausnit, Steven; and Bentsen, Per, 4,682,366, Cl. 383-65.000.
  Ausnit, Steven; and Bentsen, Per, 4,694,959, Cl. 206-390.000.
Bentson, Richard L., to Boeing Company, The. Locking clamp for ball joint. 4,674,909, 6-23-87, Cl. 403-316.000.
Bentvelzen, Joseph M.: *See—*
  Meredith, Michael D.; Bentvelzen, Joseph M.; and Jordan, Marvin F., 4,684,442, Cl. 162-242.000.
Bentz, Kenneth S.: *See—*
  Hokanson, John M.; Bentz, Kenneth S.; Field, Terrence G.; and Ziegler, David A., 4,700,044, Cl. 219-121.0LC.
Bentz, L. Earl; and Summerford, Roark H. Boat stabilizer. 4,708,672, 11-24-87, Cl. 440-51.000.
Bentz, Werner: *See—*
  Pircher, Hans; Bentz, Werner; and Tegethoff, Alfred, 4,645,720, Cl. 428-683.000.
Bentz, Willy; and Jakob, Gert, to Robert Bosch GmbH. Electronic control unit structure. 4,654,625, 3-31-87, Cl. 338-164.000.
Bentzen, Craig L.; Guyon-Gellin, Yves; Kalathakis, Kyriacos; Phan, Hieu T.; Nguyen Mong, Lan; Niesor, Eric; and Rossier, Jean-Robert, to Symphar S.A. Certain 2-substituted 1,3-propylidenediphosphonate derivatives, pharmaceutical compositions containing them and their use as antihypertensive agents. 4,696,920, 9-29-87, Cl. 514-89.000.
Benun, Andrew. FM-TV audio adapter. 4,665,559, 5-12-87, Cl. 455-3.000.
Benuzzi, Gino, deceased; and by Benuzzi, Piergiorgio, heir-at-law. Lifting platform for panels and method of operation thereof. 4,714,395, 12-22-87, Cl. 414-114.000.
Benuzzi, Piergiorgio, heir-at-law: *See—*
  Benuzzi, Gino, deceased; and Benuzzi, Piergiorgio, heir-at-law, 4,714,395, Cl. 414-114.000.
Benveniste, Victor M.: *See—*
  Armstrong, Allen E.; Benveniste, Victor M.; and Ryding, Geoffrey, 4,672,210, Cl. 250-492.200.
Benvenuto, Nevio; and Bertocci, Guido, to American Telephone and Telegraph Company, AT&T Bell Laboratories. ADPCM coder-decoder including partial band energy transition detection. 4,677,423, 6-30-87, Cl. 340-347.0DD.
Beny, Janos; and Yamasaki, Toshio, to Mattel, Inc. Toy vehicle with ejectable flywheel seat and opening gates. 4,685,894, 8-11-87, Cl. 446-435.000.
Benyon, Carl W., Jr.: *See—*
  Swartz, George A.; and Benyon, Carl W., Jr., 4,634,473, Cl. 148-1.500.
Benyon, John F.: *See—*
  Harris, John L.; and Benyon, John F., 4,711,435, Cl. 267-221.000.
Benz, Eric: *See—*
  Baswell, Imogene; Walsh, Kimberly; and Benz, Eric, 4,704,126, Cl. 623-10.000.
Benz, Gunter; Metzger, Karl G.; Pfitzner, Jorg; Schmidt, Delf; and Zeiler, Hans-Joachim, to Bayer Aktiengesellschaft. New antibiotics, preparation and use of and intermediates therefor. 4,670,542, 6-2-87, Cl. 530-331.000.
Benz & Hilgers GmbH: *See—*
  Fischer, Georg; Augst, Herbert; and Langenhahn, Lutz, 4,667,709, Cl. 141-91.000.
  Propper, Wilhelm; and Knoll, Hans-Jurgen, 4,703,607, Cl. 53-307.000.
Benz, Stephen J., Jr.: *See—*
  Rogovein, Michael E.; Benz, Stephen J., Jr.; and Bloecker, Wayne H., 4,667,457, Cl. 53-569.000.
Benz, Ulrich: *See—*
  Wehinger, Egbert; Meyer, Horst; and Benz, Ulrich, 4,705,794, Cl. 514-302.000.
Benz, Wilheim: *See—*
  Kotitschke, Gerhard; and Benz, Wilheim, 4,686,778, Cl. 34-117.000.
Benzak, William: *See—*
  Rohrbach, Peter; and Benzak, William, 4,691,641, Cl. 104-166.000.
Benzing, David W.; Benzing, Jeffrey C.; Boren, Arthur D.; and Tang, Ching C., to Benzing Technologies, Inc. In-situ CVD chamber cleaner. 4,657,616, 4-14-87, Cl. 156-345.000.
Benzing, Jeffrey C.: *See—*
  Benzing, David W.; Benzing, Jeffrey C.; Boren, Arthur D.; and Tang, Ching C., 4,657,616, Cl. 156-345.000.

Benzing Technologies, Inc.: *See*—

Benzing, David W.; Benzing, Jeffrey C.; Boren, Arthur D.; and Tang, Ching C., 4,657,616, Cl. 156-345.000.

Benzinger, Hans; and Rainer, Erich, to Thielscher Electronic GmbH. RC coupling filter, especially an input filter, for receivers of centralized ripple control systems. 4,663,597, 5-5-87, Cl. 330-107.000.

Beppu, Osamu: *See*—

Endo, Yasuhisa; Mizuhara, Shuhei; Murakami, Satoshi; Beppu, Osamu; and Toshioka, Saiji, 4,704,997, Cl. 123-198.0DB.

Kumazawa, Kiyotake; Minamide, Noriaki; Moribe, Yoshihiro; Takahashi, Mikio; Beppu, Osamu; and Mitamura, Masahiro, 4,703,242, Cl. 318-685.000.

Beppu, Teruhiko; Iwamoto, Yasushi; and Yoshida, Minoru, to Beppu, Teruhiko. Use of trichostatin compounds for treating tumor cells. 4,690,918, 9-1-87, Cl. 514-23.000.

Beppu, Teruhiko; Takesako, Kazutoh; Nakamura, Teruya; and Obayashi, Akira, to Takahara Shuzo Co., Ltd. Guanidylfungin derivatives and their production. 4,703,128, 10-27-87, Cl. 549-270.000.

Beppu, Yoshitugu: *See*—

Ikeda, Toshiki; Beppu, Yoshitugu; Yamamoto, Takashi; Ishigaki, Hideyo; and Ohmura, Hiroshi, 4,698,367, Cl. 521-57.000.

Beraha, Dan. Vasectomy instrument. 4,682,598, 7-28-87, Cl. 128-305.000.

Beral Bremsbelag GmbH: *See*—

Jonas, Siegfried, 4,694,937, Cl. 188-73.100.

Beran, Bohuslav: *See*—

Altmann, Josef; and Beran, Bohuslav, 4,680,091, Cl. 202-205.000.

Beranek, Aller J.; Furchtgott, David G.; and Tu, Tuan B., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Method and apparatus for providing variable reliability in a telecommunication switching system. 4,700,340, 10-13-87, Cl. 370-16.000.

Beranger, Herve L.; Gaudenzi, Gene J.; Reedy, Dennis C.; and Schettler, Helmut, to International Business Machines Corporation. Small signal swing driver circuit. 4,682,050, 7-21-87, Cl. 307-270.000.

erard, Raymond A.: *See*—

Gendreau, Paul M.; Llort, Francisco M.; and Berard, Raymond A., 4,692,497, Cl. 525-263.000.

Llort, Francisco M.; Gendreau, Paul M.; and Berard, Raymond A., 4,715,607, Cl. 273-218.000.

erardini, John R. Dynamic air deflector. 4,654,198, 3-31-87, Cl. 422-124.000.

erardo, Giuseppe, to Mario Pinto S.p.A. Self-centering chuck with adjustable and replaceable jaws. 4,639,001, 1-27-87, Cl. 279-121.000.

erbeco, George R., to Charleswater Products, Inc. Solution for use in impregnating paper for high-pressure antistatic laminates. 4,645,717, 2-24-87, Cl. 428-503.000.

erbeco, George R., to Charleswater Products, Inc. Electrically conductive polymeric tubes for static sensitive electronic devices. 4,662,514, 5-5-87, Cl. 206-328.000.

erberich, Bernd, to TAMPOflex GmbH. Process for multi-color ink tampon printing. 4,683,821, 8-4-87, Cl. 101-170.000.

erberick, David R.: *See*—

Runquist, Jonas A.; Howard, William G.; and Berberick, David R., 4,666,799, Cl. 429-101.000.

rchem, Donald J.; and Meininger, James R., to Chrysler Motors Corporation. Liquid cooled exhaust manifold. 4,711,088, 12-8-87, Cl. 60-321.000.

rchem, Rutger, to Berchem & Schaberg GmbH. Forged steel grinding element for ball milling. 4,634,062, 1-6-87, Cl. 241-184.000.

rchem, Rutger, to Berchem & Schaberg GmbH. Method of making a low-alloy forging. 4,644,776, 2-24-87, Cl. 72-364.000.

rchem, Rutger, to Berchem & Schaberg GmbH. Method of making a one-piece piston for an internal-combustion engine. 4,662,047, 5-5-87, Cl. 29-156.50R.

rchem, Rutger; and Proschka, Georg, to Berchem & Schaberg GmbH. Excavator tooth. 4,676,014, 6-30-87, Cl. 37-142.00R.

rchem, Rutger; and Prokscha, Georg, to Berchem & Schaberg GmbH. Replaceable tooth for a digging and breaking tool. 4,711,503, 2-8-87, Cl. 299-79.000.

chem, Rutger, to Berchem & Schaberg GmbH. Rotating cutter head. 4,711,504, 12-8-87, Cl. 299-86.000.

chem, Rutger; and Prokscha, Georg, to Berchem & Schaberg GmbH. Excavator tooth for earth moving equipment. 4,712,321, 2-15-87, Cl. 37-142.00R.

chem & Schaberg GmbH: *See*—

Berchem, Rutger, 4,634,062, Cl. 241-184.000.

Berchem, Rutger, 4,644,776, Cl. 72-364.000.

Berchem, Rutger, 4,662,047, Cl. 29-156.50R.

Berchem, Rutger; and Proschka, Georg, 4,676,014, Cl. 37-142.00R.

Berchem, Rutger; and Prokscha, Georg, 4,711,503, Cl. 299-79.000.

Berchem, Rutger, 4,711,504, Cl. 299-86.000.

Berchem, Rutger; and Prokscha, Georg, 4,712,321, Cl. 37-142.00R.

hier, Jean-Luc: *See*—

Popovic, Radivoje; and Berchier, Jean-Luc, 4,634,961, Cl. 323-368.000.

Popovic, Radivoje; Solt, Katalin; and Berchier, Jean-Luc, 4,673,964, Cl. 357-27.000.

howitz, David M.; and Redlich, Robert W., to Sunpower, Inc. ulti-phase linear alternator driven by free-piston Stirling engine. 49,283, 3-10-87, Cl. 290-1.00R.

hold Medizin-Elektronik GmbH & Co.: *See*—

Roos, Eberhard, 4,706,667, Cl. 128-303.140.

hold, Nikolaus, to Maag Gear-Wheel and Machine Company ned. Differential Hall-effect gear measuring feeler. 4,703,261, 27-87, Cl. 324-207.000.

Berco Industries, Inc.: *See*—

Baum, Elliott W., 4,643,105, Cl. 108-150.000.

Bercorit & Herweg Limited: *See*—

Hardy, Derrick, 4,679,768, Cl. 251-159.000.

Bercovici, Daniel; Gaertner, Hubert; and Puigserver, Antoine, to A.E.C. Societe de Chimie Organique et Biologique. Compositions for feeding animals. 4,701,328, 10-20-87, Cl. 426-2.000.

Bercu, Iancu, to State of Israel, Ministry of Defence, Israel Military Industries, The. Semi-automatic pistol. 4,704,944, 11-10-87, Cl. 89-132.000.

Berdahl, Donald R., to General Electric Company. Ultraviolet radiation stabilized polyphenylene ether resins. 4,665,112, 5-12-87, Cl. 524-111.000.

Berdahl, Donald R.; Nye, Susan A.; and Yeager, Gary W., to General Electric Company. Poly(phenylene ether)-bound UV absorber. 4,668,739, 5-26-87, Cl. 525-132.000.

Berdahl, Robert M.: *See*—

Basham, Michael T.; Berdahl, Robert M.; and Field, Bruce E., 4,709,771, Cl. 180-6.500.

Berdat, Henry F., to Gerber Scientific Instrument Company, The. Flashing lamp unit. 4,654,562, 3-31-87, Cl. 315-200.00A.

Berdou, Louis J. Machine for skinning different products and in particular fish. 4,653,151, 3-31-87, Cl. 17-62.000.

Berecz, Endre: *See*—

Bader, Imre; Berecz, Endre; Szina, Gabor; and Horvath, Janos, 4,639,304, Cl. 204-413.000.

Berecz, Imre, to Microdot Inc. Encapsulated fastener. 4,681,497, 7-21-87, Cl. 411-377.000.

Berecz, Imre, to Microdot Inc. Composite rivet with deformable plastic locking ring. 4,687,394, 8-18-87, Cl. 411-361.000.

Berecz, Imre; and Hinton, Dennis L., to Microdot Inc. Composite rivet with deformable annular collar containing randomly chopped fibers. 4,687,395, 8-18-87, Cl. 411-361.000.

Berecz, Imre, to Microdot Inc. One-piece composite rivet with deformable head portion and mandrel. 4,687,396, 8-18-87, Cl. 411-503.000.

Berecz, Imre, to Microdot Inc. Composite rivet with strippable mandrel. 4,687,397, 8-18-87, Cl. 411-503.000.

Berecz, Imre, to Microdot Inc. Composite rivet with collar reinforced with circumferential fibers. 4,687,398, 8-18-87, Cl. 411-503.000.

Berecz, Imre, to Microdot Inc. Composite channel and plate nut assembly. 4,695,212, 9-22-87, Cl. 411-85.000.

Bereczki, Gabor: *See*—

Tari, Gabor; Bereczki, Gabor; and Blaskovics, Ferenc, 4,700,691, Cl. 128-1.00R.

Bereiter, Bruce A., to Henkel Corporation. Process and apparatus for saponification reactions, and the like. 4,671,892, 6-9-87, Cl. 252-370.000.

Berend, Peter M.; Dilyard, Richard D.; Pesa, William A.; and Vaeth, Howard J., to Rubbermaid Incorporated. Mode stirring turntable for microwave oven. 4,636,605, 1-13-87, Cl. 219-10.55F.

Berendsen, Jules R.: *See*—

De Keyzer, Rene M.; Vaes, Jos A.; and Berendsen, Jules R., 4,686,174, Cl. 430-502.000.

Berendt, Hans-Ulrich: *See*—

Abel, Heinz; Schafer, Paul; and Berendt, Hans-Ulrich, 4,705,525, Cl. 8-555.000.

Abel, Heinz; Schafer, Paul; and Berendt, Hans-Ulrich, 4,705,526, Cl. 8-555.000.

Berentey, Gyorgy; Sarvary, Andras; Feczko, Jozsef; and Pasztor, Pal, to Technomed Gmk. Bone joining plate. 4,651,724, 3-24-87, Cl. 128-92.0YP.

Berenyi, Edit: *See*—

Lempert, Karoly; Hornyak, Gyula; Bartha, Ferenc; Doleschall, Gabor; Fetter, Jozsef; Nyitrai, Jozsef; Simig, Gyula; Zauer, Karoly; Huszthy, Peter; Feller, Antal; Petocz, Lujza; Szirt, Eniko; Grasser, Katalin; Berenyi, Edit; Orr, Zsuzsanna; and Pjeczka, Etelka, 4,665,083, Cl. 514-370.000.

Berenyi nee Poldermann, Edit; Varga, Laszlo; Pallos, Laszlo; Petocz, Lujza; Ladanyi, Laszlo; Tompe, Peter; Hartai nee Zsorzs, Eva; and Kovacs nee Palotai, Agnes, to Egis Gyogyszergyar. Quinoline derivatives and pharmaceutical compositions. 4,652,562, 3-24-87, Cl. 514-237.000.

Berenyi, Szilard, to Fusion Aided Combustion Technology International Corporation. Hydrogen energy releasing catalyst. 4,668,247, 5-26-87, Cl. 44-68.000.

Beresford, H. Richard: *See*—

Cairncross, J. Gregory; Mattes, M. Jules; Beresford, H. Richard; Albino, Anthony P.; Houghton, Alan N.; Lloyd, Kenneth O.; and Old, Lloyd J., 4,642,291, Cl. 435-240.000.

Beretta, Maurizio A.: *See*—

Ungarelli, Raffaele; Beretta, Maurizio A.; and Sogli, Loris, 4,675,462, Cl. 585-429.000.

Beretta, Pier G., to Fabbrica d'Armi P. Beretta S.p.A. Removable handle with auxiliary sights for transporting automatic rifles. 4,663,878, 5-12-87, Cl. 42-100.000.

Beretta, Pier G., to Fabbrica D'Armi P. Beretta S.p.A. Control device for rapid firing particularly automatic weapons. 4,693,169, 9-15-87, Cl. 89-129.020.

Beretta, Pier G., to Fabrica d'Armi P.Beretta S.p.A. Tripping mechanism for the conversion closed-bolt automatic rifles to open-bolt ones. 4,697,495, 10-6-87, Cl. 89-143.000.

Bereznak, Bradley J., to Advanced Micro Devices, Inc. High speed frequency divide-by-5 circuit. 4,703,495, 10-27-87, Cl. 377-108.000.

Bereznak, Bradley J.: *See*—

Chu, John W.; and Bereznak, Bradley J., 4,682,143, Cl. 338-307.000.

Berezoutzky, Georges, to Societe Francaise de Stockage Geologique Geostock. Draining well for an underground cavity for storing liquefied gas under pressure. 4,701,072, 10-20-87, Cl. 405-53.000.

Berfield, Robert C., and Crevling, Robert L., Jr., to Shop-Vac Corporation. Dolly bumper. 4,635,951, 1-13-87, Cl. 280-47.340.

Berfield, Robert C., to Shop-Vac Corporation. Dolly with tank latch. 4,640,521, 2-3-87, Cl. 280-47.340.

Berfield, Robert C. and Fegan, Richard M., to Shop-Vac Corporation. Hand held vacuum cleaner. 4,642,841, 2-17-87, Cl. 15-330.000.

Berfield, Robert C.; Crevling, Robert L., Jr.; and Rightnour, Donald G., to Shop-Vac Corporation. Dolly with tank holding device. 4,650,200, 3-17-87, Cl. 280-47.260.

Berfield, Robert C., to Shop-Vac Corporation. Housing assembly for motor/fan means of a wet/dry vacuum cleaner. 4,655,694, 4-7-87, Cl. 417-423.00A.

Berfield, Robert C.; Crevling, R. Lent, Jr.; Meland, Ronald F.; and Fegan, Richard M., to Shop-Vac Corporation. Rotary brush sweeper with mechanism for brush height adjustment. 4,658,458, 4-21-87, Cl. 15-49.00C.

Berfield, Robert C.; and Meland, Ronald F., to Shop-Vac Corporation. Alternate blower outlet for vacuum cleaner. 4,683,608, 8-4-87, Cl. 15-328.000.

Berfield, Robert C.; Seasholtz, Craig A.; and Fegan, Richard M., to Shop-Vac Corporation. Rotary brush sweeper with easily separable debris pan. 4,701,969, 10-27-87, Cl. 15-79.00R.

Berfield, Robert C., to Shop-Vac Corporation. Vehicle with readily mountable steering handle. 4,705,282, 11-10-87, Cl. 280-47.37R.

Berfield, Robert C.; Seasholtz, Craig A.; and Fegan, Richard M., to Shop-Vac Corporation. Debris pan for rotary brush sweeper. 4,709,436, 12-1-87, Cl. 15-79.00R.

Berg, Arne, to Stiftelsen for Industriell og Teknisk Forskning ved Norges Tekniske Hogskle (SINTEF). Fiber optic connector including automatic wiping mechanism. 4,708,432, 11-24-87, Cl. 350-96.210.

Berg, Christoph: *See*—

Knothe, Erich; Melcher, Franz-Josef; Ober, Jurgen; Berg, Christoph; Dardat, Klaus; Bierich, Eduard; and Maaz, Gunther, 4,656,599, Cl. 364-567.000.

Melcher, Franz-Josef; Maaz, Gunther; Bierich, Eduard; Stadler, Eberhard; and Berg, Christoph, 4,653,600, Cl. 177-229.000.

Berg, Dieter: *See*—

Kramer, Wolfgang; Reiser, Wolf; Berg, Dieter; Brandes, Wilhelm; and Reinecke, Paul, 4,668,700, Cl. 514-467.000.

Kramer, Wolfgang; Weissmuller, Joachim; Reiser, Wolf; Berg, Dieter; Brandes, Wilhelm; and Reinecke, Paul, 4,713,379, Cl. 514-212.000.

Berg, Eitan: *See*—

Shen-Orr, Chain, D., and Berg, Eitan, 4,638,250, Cl. 324-207.000.

Berg, Gunter; Muller, Otmar; and Esters, Rainer, to Diehl GmbH & Co. Adhesive medium for the bonding of surfaces in the ammunition containing explosive charges. 4,640,947, 2-3-87, Cl. 524-109.000.

Berg, Harvey F.; Peterson, Lyle; Leslie, James E.; and Doan, Phong, to Deltec Systems, Inc. Drug delivery system. 4,650,469, 3-17-87, Cl. 604-131.000.

Berg, Howard M.; and Mitchell, Curtis W., to Motorola, Inc. Fiber optics semiconductor package. 4,653,847, 3-31-87, Cl. 350-96.200.

Berg, Howard M.: *See*—

Koury, Daniel N., Jr.; Berg, Howard M.; and Stevenson, David W., 4,647,331, Cl. 156-273.900.

Berg, Joseph A.; Gieszl, Cliff; Jones, Lee R.; and Hughes, Leonard W. Orthopedic instrument having relatively adjustable seat sections. 4,650,247, 3-17-87, Cl. 297-284.000.

Berg, Lawrence: *See*—

Lokken, Donald; Berg, Lawrence; and Berg, Lynda, 4,667,491, Cl. 70-63.000.

Berg, Lloyd; and Yeh, An-I. Dehydration of formic acid by extractive distillation. 4,642,166, 2-10-87, Cl. 203-15.000.

Berg, Lloyd; and Yeh, An-I. Separation of isobutyl acetate from isobutanol by extractive distillation. 4,642,167, 2-10-87, Cl. 203-60.000.

Berg, Lloyd; and Yeh, An-I. Dehydration of ethanol by extractive distillation. 4,654,123, 3-31-87, Cl. 203-19.000.

Berg, Lloyd. Separation of methyl t-butyl ether from hydrocarbons by extractive distillation. 4,661,209, 4-28-87, Cl. 203-51.000.

Berg, Lloyd; and Vosburgh, Mark G. Separation of isopropanol from isopropyl acetate and water by extractive distillation. 4,666,560, 5-19-87, Cl. 203-57.000.

Berg, Lloyd; and Yeh, An-I. Separation of isopropyl ether from isopropanol and water by extractive distillation. 4,666,563, 5-19-87, Cl. 203-56.000.

Berg, Lloyd; and Yeh, An-I. Dehydration of propanoic acid by extractive distillation. 4,670,105, 6-2-87, Cl. 203-15.000.

Berg, Lloyd; and Yeh, An-I. Separation of n-amyl acetate and water from n-amyl alcohol by extractive distillation. 4,670,106, 6-2-87, Cl. 203-51.000.

Berg, Lloyd; and Yeh, An-I. Separation of m-xylene from o-xylene by extractive distillation with polychloro compounds. 4,673,465, 6-16-87, Cl. 203-51.000.

Berg, Lloyd. Separation of n-hexyl alcohol from n-hexyl acetate by extractive distillation. 4,673,466, 6-16-87, Cl. 203-51.000.

Berg, Lloyd; and Vosburgh, Mark G. Separation of isopropanol from isopropyl acetate by extractive distillation. 4,675,080, 6-23-87, Cl. 203-60.000.

Berg, Lloyd; and Yeh, An-I. Separation of m-xylene from o-xylene by extractive distillation with adiponitrile and mixtures thereof. 4,676,872, 6-30-87, Cl. 202-51.000.

Berg, Lloyd; and Yeh, An-I. Separation of n-propyl acetate from n-propanol and water by extractive distillation. 4,676,874, 6-30-87, C 203-51.000.

Berg, Lloyd; and Yeh, An-I. Separation of m-xylene from o-xylene by extractive distillation. 4,676,875, 6-30-87, Cl. 203-51.000.

Berg, Lloyd. Conversion of molybdenite to molybdenum dioxide using petroleum or coal tar pitches. 4,687,647, 8-18-87, Cl. 423-53.000.

Berg, Lloyd; and Yeh, An-I. Separation of n-amyl acetate from n-amyl alcohol by extractive distillation. 4,690,734, 9-1-87, Cl. 203-56.000.

Berg, Lloyd, to Celanese Chemical Co. Separation of formic acid from acetic acid by extractive distillation. 4,692,219, 9-8-87, Cl. 203-51.00

Berg, Lloyd; and Shanahan, Michael J. Separation of t-Amyl alcoho from isobutanol by extractive distillation. 4,693,787, 9-15-87, C 203-51.000.

Berg, Lloyd; and Shanahan, Michael J. Separation of t-amyl alcoh from isobutanol by extractive distillation. 4,693,788, 9-15-87, C 203-51.000.

Berg, Lloyd; and Yeh, An-I. Separation of isopropyl acetate fro isopropanol by extractive distillation. 4,693,789, 9-15-87, C 203-51.000.

Berg, Lloyd. Separation of n-hexyl acetate from n-hexyl alcohol b extractive distillation. 4,695,350, 9-22-87, Cl. 203-51.000.

Berg, Lloyd. Separation of isopropyl acetate from isopropanol b extractive distillation. 4,698,137, 10-6-87, Cl. 203-51.000.

Berg, Lloyd; and Vosburgh, Mark G. Separation of ethanol fro isopropanol by extractive distillation. 4,710,274, 12-1-87, C 203-51.000.

Berg, Lloyd; and Vosburgh, Mark G. Separation of isopropanol fro t-butanol by extractive distillation. 4,710,275, 12-1-87, Cl. 203-51.00

Berg, Lloyd; and Vosburgh, Mark G. Separation of n-propanol fro 2-butanol by extractive distillation. 4,715,933, 12-29-87, C 203-51.000.

Berg, Lynda: *See*—

Lokken, Donald; Berg, Lawrence; and Berg, Lynda, 4,667,491, C 70-63.000.

Berg, Markus: *See*—

Seiter, Wolfgang; Andree, Hans; and Berg, Markus, 4,675,124, C 252-91.000.

Berg, Marlin C. Vehicle mounted portable sign. 4,671,004, 6-9-87, C 40-592.000.

Berg, Marlin C. Anti-theft cover assembly. 4,706,775, 11-17-87, C 180-289.000.

Berg, Norman J.: *See*—

Abramovitz, Irwin J.; Berg, Norman J.; and Casseday, Michael W. 4,637,688, Cl. 350-358.000.

Berg, Otto, to Ardal OG Sunndal Verk A.S. Method of forming to finished size vehicle wheels made of a heat-treatable aluminum all 4,687,524, 8-18-87, Cl. 148-11.50A.

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Bergmann, Udo; Hansen, Guenter; and Zeidler, Georg, to B tiengesellschaft. Iron, copper and chromium complexes dyes. 4,638,055, 1-20-87, Cl. 534-678.000.

Bergmann, Udo; Hahn, Erwin; and Hansen, Guenter, to BASF Aktiengesellschaft. α-methine substituted thiophene monoazo dye. 4,668,775, 5-26-87, Cl. 534-765.000.

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Bergmeier, Stephen C.; Downs, David A.; Moos, Walter H.; Moreland, David W.; and Tecle, Haile, to Warner-Lambert Company. O-substituted tetrahydropyridine oxime cholinergic agents. 4,710,508, 12-1-87, Cl. 514-357.000.

Bergmeier, Stephen C.: *See*—

Jaen, Juan C.; Wise, Lawrence D.; Tecle, Haile; and Bergmeier, Stephen C., 4,650,805, Cl. 514-326.000.

Bergna, Horacio E., to Du Pont de Nemours, E. I., and Company. Attrition resistant catalysts, catalyst precursors and catalyst supports and process for preparing same. 4,677,084, 6-30-87, Cl. 502-8.000.

Bergna, Horacio E.; Corbin, David R.; and Sonnichsen, George, to Du Pont de Nemours, E. I., and Company. Modified 8-ring zeolites as catalysts for conversion of methanol and ammonia to dimethylamine. 4,683,334, 7-28-87, Cl. 564-474.000.

Bergner, Arndt, to Hilti Aktiengesellschaft. Expansion anchor assembly. 4,678,383, 7-7-87, Cl. 411-32.000.

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Bergner, Dieter: *See*—

Schmitt, Helmut; Schurig, Helmuth; Bergner, Dieter; and Hannesen, Kurt, 4,664,770, Cl. 204-252.000.

Staab, Rudolf; Bergner, Dieter; and Hannesen, Kurt, 4,639,303, Cl. 204-258.000.

Bergner, Herbert; Blidung, Otto; and Harten, Johannes, to Hauni-Werke Korber & Co. KG. Apparatus for making cartons of cigarette packs and the like. 4,653,248, 3-31-87, Cl. 53-231.000.

Bergner, William J., to Columbia Parcar Corporation. Speed control for an electric golf car. 4,648,473, 3-10-87, Cl. 180-65.800.

Bergold, Wolfram; and Melzer, Jaroslav, to BASF Aktiengesellschaft. Antifoams based on oil-in-water emulsions. 4,664,844, 5-12-87, Cl. 252-358.000.

Bergomi, Angelo; and Tazuma, James J., to Goodyear Tire & Rubber Company, The. Process for preparing N-polythiodimorpholines. 4,656,266, 4-7-87, Cl. 544-85.000.

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de Lasa, Hugo I.; Lee, Shiun-Liang; and Bergougnou, Maurice A., 4,659,218, Cl. 356-133.000.

Bergquist, Carl R.: *See*—

DeGree, David C.; Bergquist, Carl R.; Humphrey, Dallas R.; and West, Roger A., 4,666,545, Cl. 156-252.000.

Bergquist Company, The: *See*—

DeGree, David C.; Bergquist, Carl R.; Humphrey, Dallas R.; and West, Roger A., 4,666,545, Cl. 156-252.000.

Fick, Herbert J., 4,685,987, Cl. 156-247.000.

Bergquist, Eric A., to Elektro Mekan I Arjang AB. Tracked load carrying vehicle. 4,645,022, 2-24-87, Cl. 180-6.700.

Bergquist, Frank H.; and Cox, Donald W., to Eaton Corporation. Gas valve. 4,671,484, 6-9-87, Cl. 251-11.000.

Bergquist, Karl; and Sundemo, Magnus, to AB Volvo. Exhaust silencer device for an internal combustion engine. 4,699,244, 10-13-87, Cl. 181-226.000.

Bergquist, Thomas O. Support stand for a minnow trap. 4,680,887, 7-21-87, Cl. 43-100.000.

Bergs, Franciscus H., to Wagemans Mastricht B.V. Resilient hinge. 4,633,546, 1-6-87, Cl. 16-277.000.

Bergsma, Rudolph, to G.T. Products, Inc. Fuel tank mounted roll-over valve. 4,646,772, 3-3-87, Cl. 137-39.000.

Bergsma, Wijtse; Labrijn, Hans; and Sterk, Olivier, to U.S. Philips Corporation. Shaving appliance. 4,698,908, 10-13-87, Cl. 30-43.600.

Bergsma, Wijtse; and Oord, Klaas T., to U.S. Philips Corporation. Dry-shaving apparatus with a holder for circular cutting units. 4,711,028, 12-8-87, Cl. 30-43.600.

Bergsmann Apparatebau Gesellschaft m.b.H. & Co. KG.: *See*—

Kronawittleithner, Kurt; and Pfarrsbacher, Alfred, 4,683,788, Cl. 82-47.000.

Bergson, Benjamin J., to Paccar Inc. High-strength, low-alloy cast steel. 4,634,476, 1-6-87, Cl. 420-73.000.

Bergstedt, Gar A., to Tektronix, Inc. Apparatus and method for modifying displayed color images. 4,694,286, 9-15-87, Cl. 340-703.000.

Bergsteiner, Johann: *See*—

Hoft, Peter; Peter, Wolfgang; Bergsteiner, Johann; Berschiek, Gunter; Drobe, Wolfgang; Engelke, Fritz; Hacke, Heinz; Hebbinghaus, Walter; and Kuhnert, Siegfried, 4,690,297, Cl. 220-273.000.

Bergsten, Arvid H. Folding portable tree step. 4,697,669, 10-6-87, Cl. 182-92.000.

Bergsten, Lars, to Saab-Scania Aktiebolag. Arrangement for connecting a position sensing transducer to a machine. 4,653,458, 3-31-87, Cl. 123-612.000.

Bergsten, Lars E.: *See*—

Gadefelt, Bengt G.; and Bergsten, Lars E., 4,672,926, Cl. 123-90.340.

Bergstrand, Gunnar, to Moveco System AB. Rotary mechanism. 4,697,468, 10-6-87, Cl. 74-105.000.

Bergstrom, Arne. Image monochromator. 4,705,396, 11-10-87, Cl. 356-332.000.

Bergstrom, Bo C.; and Herolf, Knut O. M., to Telefonaktiebolaget LM Ericsson. Method of reducing the effect of narrowband jammers in radio communication between two stations. 4,716,573, 12-29-87, Cl. 375-1.000.

Bergstrom, Christer, to Neste OY. Compound film containing olefin. 4,639,398, 1-27-87, Cl. 428-451.000.

Bergstrom, Darryl K., to Daedalus Industries, Inc. Collapsible lightweight and rigidly compact multiple projector stand. 4,653,717, 3-31-87, Cl. 248-664.000.

Bergstrom, David A., to Howden Environmental Systems, Inc. Slurry conveying system. 4,699,548, 10-13-87, Cl. 406-109.000.

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Bergstrom, Hans R., to Car-O-Liner Company. Vehicle bench lift. 4,690,250, 9-1-87, Cl. 187-18.000.

Bergstrom, Henry: *See*—

Postonen, Arne; and Bergstrom, Henry, 4,654,916, Cl. 15-50.000.

Bergstrom, James W.; and Podgorski, Theodore J., to Honeywell Inc. Readout for a ring laser gyro. 4,712,917, 12-15-87, Cl. 356-350.000.

Bergstrom, Jerice; and Bergstrom, Jon, to Ambience, Inc. Dispenser for bottled liquid. 4,674,662, 6-23-87, Cl. 222-399.000.

Bergstrom, Jon: *See*—

Bergstrom, Jerice; and Bergstrom, Jon, 4,674,662, Cl. 222-399.000.

Bergstrom, Michael: *See*—

Gent, Derek J.; and Bergstrom, Michael, 4,695,774, Cl. 315-408.000.

Bergstrom, Roger E. Removable core lockset with anti-pick core removal ring. 4,703,638, 11-3-87, Cl. 70-369.00R.

Bergvall, Bengt A., to Husqvarna Aktiebolag. Electronic sewing machine. 4,651,664, 3-24-87, Cl. 112-458.000.

Bergvall, Bengt A., to Husqvarna Aktiebolag. Seam indicating arrangement in a sewing machine. 4,662,295, 5-5-87, Cl. 112-445.000.

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Bergvik Kemi AB: *See*—

Canestri, Giuseppe, 4,634,552, Cl. 252-356.000.

Ljusberg-Wahren, Helena, 4,634,450, Cl. 44-51.000.

Bergwerksverband GmbH: *See*—

Boing, Rolf; Frase, Dietmar; and Noeske, Manfred, 4,704,895, Cl. 73-104.000.

Brychta, Peter; and Wiechers, Klaus-Peter, 4,657,131, Cl. 198-810.000.

Cornely, Wolfgang; Stein, Dietrich; Maidl, Bernhard; and Kubicki, Karl, 4,652,174, Cl. 405-146.000.

Giertz, Franz; and Bonn, Bernhard, 4,651,520, Cl. 60-39.464.

Heising, Ferdinand; and Knickmeyer, Wilhelm, 4,657,387, Cl. 356-72.000.

Mann, Max; and Kapps, Manfred, 4,715,746, Cl. 405-264.000.

Pollert, Georg, 4,710,302, Cl. 210-696.000.

Stephan, Peter, 4,648,753, Cl. 405-260.000.

Bergwitz-Larsen, Carl-Aage; and Osterlund, Rolf G. L., to KabiVitrum AB. Novel pharmaceutical composition. 4,693,997, 9-15-87, Cl. 514-54.000.

Berich, John J. Security chain lock for doors. 4,648,642, 3-10-87, Cl. 292-264.000.

Beriger Ernst, to Ciba-Geigy Corporation. Nematicidal compositions. 4,694,014, 9-15-87, Cl. 514-363.000.

Berillon, Jean-Bernard; Daulon, Jean-Marc; and Maurel, Jean-Philippe, to Compagnie Generale des Etablissements Michelin. Flap for tires. 4,667,720, 5-26-87, Cl. 152-501.000.

Beringer-Hydraulik GmbH: *See*—

Haussler, Hubert, 4,676,140, Cl. 91-452.000.

Riedel, Hans-Peter; Zurcher, Josef; and Haussler, Hubert, 4,679,586, Cl. 137-491.000.

Berk, Michael A., to Abar Ipsen Industries. Heat-insulated telemetry system for vacuum furnace. 4,688,039, 8-18-87, Cl. 340-870.170.

Berke, Fritz; Kehr, Helmut; and Kuhnle, Adolf, to Huels Aktiengesellschaft. Lubricant for processing of plastics. 4,661,163, 4-28-87, Cl. 106-270.000.

Berke, Howard M.; and Lyons, Harold W., to Whelen Engineering Co., Inc. Siren with remote driver. 4,710,749, 12-1-87, Cl. 340-405.000.

Berke, Howard R. Solid state NMR probe. 4,672,972, 6-16-87, Cl. 128-653.000.

Berke, Joseph J.: *See*—

Muller, George H., 4,709,697, Cl. 128-303.00R.

Presser, Dwight W.; and Berke, Joseph J., 4,713,002, Cl. 433-30.000.

Berke, Michael; and Rosman, Matthew. Chiropractic adjustment device. 4,711,230, 12-8-87, Cl. 128-69.000.

Berkeley Process Control, Inc.: *See*—

Sagues, Paul, 4,639,884, Cl. 364-565.000.

Berkemeier, Donald E.: *See*—

Hubbard, Charles E.; and Berkemeier, Donald E., 4,674,167, Cl. 29-401.100.

Berkenhaus, Dirk: *See*—

Wagner, Wolfram; Nyssen, Peter R.; Espanion, Gunter; Berkenhaus, Dirk; Haladuda, Gunter; van Pey, Hans-Theo; and Schott, Karl-Heinz, 4,676,815, Cl. 65-16.000.

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Dommer, Erich; Rechtziegel, Bruno; and Tauber, Klaus, 4,701,302, Cl. 420-470.000.

Berkes, John S.; Yourd, Raymond A., III; and Koch, Ronald J., to Xerox Corporation. Flash fusing process with prespheroidized toner. 4,672,018, 6-9-87, Cl. 430-124.000.

Berkes, John S., to Xerox Corporation. Process for energy reduction with flash fusing. 4,698,290, 10-6-87, Cl. 430-124.000.

- Berkey, George E., to Corning Glass Works. Conveyor deposition method and apparatus for making optical fiber preforms. 4,681,384, 8-4-87, Cl. 65-3.120.
- Berkhof, Hendrikus, to Honeywell B.V. Method and apparatus for controlling room temperature. 4,671,457, 6-9-87, Cl. 236-46.00R.
- Berkhof, Hendrikus, to Honeywell B.V. Differential pressure responsive switch. 4,692,574, 9-8-87, Cl. 200-81.500.
- Berkhof, Hendrikus, to Honeywell B.V. Hot water heating system using a heat consumption meter. 4,695,052, 9-22-87, Cl. 237-8.00R.
- Berkhout, Franciscus M.: *See—*
  - Seal, Michael; and Berkhout, Franciscus M., 4,699,142, Cl. 128-339.000.
- Berkland, Philip T.; Heath, Allen W.; and Waddell, Grady K., to International Business Machines Corporation. Interactive operator selection of alternative implementations of printer functions. 4,648,047, 3-3-87, Cl. 364-519.000.
- Berkland, Philip T.; Heath, Allen W.; and Waddell, Grady K., to International Business Machines Corporation. Method to control placement of image of document to be printed on paper in an interactive text processing system. 4,656,602, 4-7-87, Cl. 364-900.000.
- Berkley and Company, Inc.: *See—*
  - Foote, Danny R.; and Turner, Wayne O., 4,685,241, Cl. 43-18.500.
  - McMickle, Robert L.; Rumbaugh, James T.; and Netsch, Robert L., 4,641,860, Cl. 285-38.000.
  - Rumbaugh, James T., 4,635,406, Cl. 51-181.00R.
  - Rumbaugh, James T., 4,646,460, Cl. 43-22.000.
- Berkline Corporation: *See—*
  - Burnett, William; Houghton, James R.; Walker, David A.; and Key, Larry, 4,696,512, Cl. 297-68.000.
- Berkmann, Adolf; and Veyhle, Walter. Process and device for drying of coated work pieces through infrared radiation. 4,665,626, 5-19-87, Cl. 34-1.000.
- Berkoff, William. Edible nut and fruit granule product and process. 4,670,284, 6-2-87, Cl. 426-633.000.
- Berkovits, Abraham H. Method for affixing non-slip strips to garment hangers. 4,655,867, 4-7-87, Cl. 156-234.000.
- Berkowitz, Gerard: *See—*
  - Soderbaum, Mavis, 4,708,357, Cl. 280-289.00H.
- Berkowitz, Nathan L. Flush combination lock. 4,683,738, 8-4-87, Cl. 70-332.000.
- Berkowitz, Phillip T., to Olin Corporation. Stable, low viscosity polymer/polyisocyanate dispersion. 4,695,596, 9-22-87, Cl. 521-137.000.
- Berkstresser, George W.; and Shmulovich, Joseph, to American Telephone and Telegraph Company, AT&T Bell Laboratories. Electron beam pumped rod-like light emitters. 4,695,762, 9-22-87, Cl. 313-474.000.
- Berl, Marta N.; and Turner, Esther. Toothbrush. 4,694,844, 9-22-87, Cl. 132-84.00R.
- Berla, Timothy S.: *See—*
  - Sternberg, Stanley R.; Herteg, Glenn; Koskella, Martin P.; and Berla, Timothy S., 4,665,551, Cl. 382-49.000.
- Berland, Pierre-Axel; and Rufray, Jean-Claude, to Deutsche Thomson-Brandt GmbH. Vertical deflection circuit for electron beams in picture tubes. 4,686,432, 8-11-87, Cl. 315-403.000.
- Berlese, Remo. Motorcycle boot with positive air circulation. 4,640,027, 2-3-87, Cl. 36-131.000.
- Berlese, Remo. Vented bicycle shoe. 4,679,335, 7-14-87, Cl. 36-131.000.
- Berleth, Manfred; and Weinhold, Helmut, to Cambridge Instruments Inc. Clamping mechanism for a cutter of a microtome. 4,690,023, 9-1-87, Cl. 83-700.000.
- Berleth, Manfred, to Cambridge Instruments GmbH. Specimen holder clamp for a microtome. 4,695,046, 9-22-87, Cl. 269-210.000.
- Berleth, Manfred: *See—*
  - Behme, Werner; and Berleth, Manfred, 4,691,151, Cl. 318-571.000.
- Berlex Laboratories, Inc.: *See—*
  - Diamond, Julius, 4,663,351, Cl. 514-548.000.
  - Malpass, Jack W., 4,693,371, Cl. 206-538.000.
- Berlin, Bo; and Nedstedt, Gert, to Tetra Pak International AB. Metering pump. 4,715,791, 12-29-87, Cl. 417-274.000.
- Berlin, Edwin P., Jr.; Gardner, Geoffrey Y.; Gelman, Robert M.; and Gershowitz, Michael N., to Grumman Aerospace Corporation. Non-edge computer image generation system. 4,677,576, 6-30-87, Cl. 364-522.000.
- Berlin, Richard B.; Berlin, Richard B., Jr.; and Javna, Stephen L. Surgical wound drain device. 4,692,153, 9-8-87, Cl. 604-171.000.
- Berlin, Richard B., Jr.: *See—*
  - Berlin, Richard B.; Berlin, Richard B., Jr.; and Javna, Stephen L., 4,692,153, Cl. 604-171.000.
- Berlincourt, Don A., to Channel Products, Inc. Gas control circuit. 4,652,231, 3-24-87, Cl. 431-78.000.
- Berliner, Shlomo; Vered, Areyh; Shmuel, Reich; and Vaige, Moshe, to Motorola, Inc. Forward and reflected power measurement and display. 4,703,259, 10-27-87, Cl. 324-95.000.
- Berliner, Wallace H., to Waldes Truarc, Inc. Radially assembled spring retaining ring and power gun for assembling same. 4,667,399, 5-26-87, Cl. 29-809.000.
- Berliner, Wallace H.: *See—*
  - Killian, Edmund F.; and Berliner, Wallace H., 4,692,079, Cl. 411-353.000.
- Berlinger, Gregory J.; and Speranza, Joseph J., to General Motors Corporation. Laser welding metal sheets with associated trapped gases. 4,684,779, 8-4-87, Cl. 219-121.0LD.
- Berlinsky, Allan M., to Raytheon Company. Interpolation pulse duration modulated adder. 4,646,321, 2-24-87, Cl. 375-22.000.
- Berlinsky, Allan M., to Raytheon Company. Interpolation pulse duration modulated multiplier. 4,660,162, 4-21-87, Cl. 364-723.000.
- Berluche, Enock: *See—*
  - Schulz, Donald N.; Duvdevani, Ilan; Bock, Jan; and Berluche, Enock, 4,650,848, Cl. 526-287.000.
  - Schulz, Donald N.; Berluche, Enock; Maurer, John J.; and Bock, Jan, 4,663,408, Cl. 526-240.000.
- Bermad Kibbutz Evron: *See—*
  - Weingarten, Zvi, 4,662,598, Cl. 251-5.000.
- Berman, Ari P., to Data Translation Inc. Interrupt driven multi-buffer DMA circuit for enabling continuous sequential data transfers. 4,703,449, 10-27-87, Cl. 364-900.000.
- Berman, Arnold L.: *See—*
  - Assal, Francois T.; Berman, Arnold L.; and Potukuchi, Janaki R., 4,637,017, Cl. 370-104.000.
- Berman, Carol B.: *See—*
  - Evans, Thomas L.; and Berman, Carol B., 4,701,519, Cl 528-371.000.
- Berman, Cary; and Kiss, Steven. Fully collapsible portable chair. 4,715,650, 12-29-87, Cl. 297-28.000.
- Berman, Ellen M.; and Suto, Mark J., to Warner-Lambert Company. Substituted benzonitriles. 4,677,219, 6-30-87, Cl. 558-419.000.
- Berman, Elliot; Gay, Charles F.; Miller, Stephen C.; and Tanner, David P., to Atlantic Richfield Company. Transparent photovoltaic module. 4,663,495, 5-5-87, Cl. 136-248.000.
- Berman, Elliot; and Zentner, Brian A., to Atlantic Richfield Company. Benzafuran derivatives. 4,668,803, 5-26-87, Cl. 549-291.000.
- Berman, Herbert L.: *See—*
  - Christol, James T.; Jacobs, Michael R.; and Berman, Herbert L., 4,634,294, Cl. 374-170.000.
- Berman, Jack E. Cylindrically modular above-ground housing units. 4,653,238, 3-31-87, Cl. 52-79.400.
- Berman, James. Pen and penholder combination. 4,699,536, 10-13-8 Cl. 401-88.000.
- Berman, Jody R.: *See—*
  - Silvis, H. Craig; Berman, Jody R.; and White, Jerry E., 4,647,64 Cl. 528-102.000.
  - Wang, Chun S.; Chen, Wuu N.; Bowden, Robert L.; and Berman, Jody R., 4,684,700, Cl. 525-481.000.
- Berman, Lou: *See—*
  - Lund, Walter; Berman, Lou; and Dothan, Felix, 4,679,570, Cl 128-715.000.
- Berman, Marc. Switching method and device using movable battery. 4,638,409, 1-20-87, Cl. 362-104.000.
- Berman, Michael J., to General Instrument Corporation. Automatic terminal signal equalization. 4,653,114, 3-24-87, Cl. 455-5.000.
- Berman, Sanford: *See—*
  - Zollinger, Wendell D.; Boslego, John; Moran, Ellen; Brandt, Brenda; Collins, Hugh; Mandrell, Robert; Altieri, Patricia; and Berman, Sanford, 4,707,543, Cl. 530-402.000.
- Bermes, Rudolf, to BASF Aktiengesellschaft. Liquid dye salts. 4,668,789, 5-26-87, Cl. 546-101.000.
- Bermond, Gabriele; and Vignotto, Angelo, to RIV-SKF Officine d Villar Perosa S.p.A. Bearing with reinforced and vented seal. 4,697,936, 10-6-87, Cl. 384-484.000.
- Bermudez, Jorge E.: *See—*
  - Lalin, Hill S.; Bermudez, Jorge E.; and Fleming, William T., 4,691,577, Cl. 73-861.050.
- Bernabeu, Eugenio P. Ruler for measuring angles between an oriented axis and a vector. 4,715,127, 12-29-87, Cl. 33-494.000.
- Bernacchi, Armand. Anti-theft device for an automobile vehicle. 4,708,005, 11-24-87, Cl. 70-238.000.
- Bernadic, Thomas J.: *See—*
  - Lowe, Tony M.; and Bernadic, Thomas J., 4,669,925, Cl 407-114.000.
  - Patterson, John H.; and Bernadic, Thomas J., 4,705,434, Cl 407-114.000.
- Bernadsky, Vsevolod N.: *See—*
  - Paton, Boris E.; Vasiliev, Vsevolod V.; Bogdanovsky, Valentin A.; Baranov, Alexandr I.; Danilyak, Sergei N.; Schegolev, Vikto A.; Chernoivanov, Vladimir A.; Voloshin, Vitaly I.; Gavva Viktor M.; and Bernadsky, Vsevolod N., 4,680,014, Cl 434-234.000.
- Bernard, Alain M.; Canny, Jean-Paul L.; and Touboul, Pierre L., t Office National d'Etudes et de Recherches Aerospatiales (ONERA) Device for electrostatically suspending a body or sample. 4,688,14 8-18-87, Cl. 361-233.000.
- Bernard, Daniel, to LCC-CICE-Compagnie Europeenne de Compo sants Electroniques. Method of continuous fabrication of mother capacitors. 4,633,551, 1-6-87, Cl. 29-25.420.
- Bernard, Daniel, to L.C.C.-C.I.C.E.-Compagnie Europeenne de Com posants Electroniques. Process for the production of a laminated capacitor. 4,637,106, 1-20-87, Cl. 29-25.420.
- Bernard, Edward G.; and Kochesky, Francis F., to American Felt Filter Company. Method for filtration of coatings. 4,658,755, 4-21-8 Cl. 118-610.000.
- Bernard, Emile C., to Minnesota Mining and Manufacturing Company. Heat shrink package handle. 4,700,528, 10-20-87, Cl. 53-398.000.
- Bernard, Georges: *See—*
  - Walter, Jean-Jacques; Petit, Daniel; Marzocca, Joseph; Amalr Jean; and Bernard, Georges, 4,697,055, Cl. 200-148.00B.
- Bernard, Gilbert; Breden, Emile; and Lonardi, Emile. Process fo controlling the charging of a shaft furnace. 4,714,396, 12-22-87, C 414-161.000.
- Bernard, Gilles; and Delalande, Francois, to Compagnie Europeenne Composants Electroniques LCC. Connecting strip for the manufa ture of direct transfer electric components and manufacturing metho for such components. 4,715,118, 12-29-87, Cl. 29-856.000.

Bernard, Jean; and Mercier, Michel, to Ste Look. Bicycle pedal and shoe fastening combination. 4,686,867, 8-18-87, Cl. 74-594.600.

Bernard, Jean-Claude; Chabrier, Patrick; Tahon, Bernard; Tesoriere, Jean-Marc; and Ortega, Domingo, to Societe des Electrodes et Refractaires "Savoie" (SERS). Continuous method of graphitizing long carbon-containing products and a furnace for carrying out the method. 4,639,929, 1-27-87, Cl. 373-120.000.

Bernard, Jean M.: *See—*

Tenu, Jean P.; Phillips, Nigel C.; Petit, Jean-Francois; and Bernard, Jean M., 4,663,311, Cl. 514-26.000.

Bernard, John A.; Henry, Allan F.; Lanning, David D.; and Kwok, Kwan S., to Massachusetts Institute of Technology. Apparatus and method for closed-loop control of reactor power. 4,710,341, 12-1-87, Cl. 376-216.000.

Bernard, John A., Jr., to Massachusetts Institute of Technology. Apparatus and method for closed-loop control of reactor power. 4,637,911, 1-20-87, Cl. 376-217.000.

Bernard, Marie: *See—*

Schlesser, Marilyn; and Bernard, Marie, 4,643,725, Cl. 604-306.000.

Bernard Marks and Company Limited: *See—*

Armstrong, Richard J., 4,639,215, Cl. 431-354.000.

Bernard Matthews plc: *See—*

Matthews, Bernard T., Benstead, Alan J.; Joll, David J.; Thorp, Sidney; and Wilson, David N., 4,663,170, Cl. 426-90.000.

Bernard, Raymond: *See—*

Ferreira, Marc; McCormick, John; Bernard, Raymond; Butryn, Joseph; and Clifford, Ronald, 4,702,259, Cl. 128-734.000.

Bernard, Thomas E.; Roth, Emile M; Mohan, Edwin R.; Sherwin, Gary W., and Zomp, John M., to Westinghouse Electric Corp. Evoked potential autorefractometry system. 4,697,598, 10-6-87, Cl. 128-731.000.

Bernard, Vincent, to Compagnie Industrielle de Mecanismes en abrege C.I.M. Electrically opened and closed latch for automobile vehicle doors. 4,664,430, 5-12-87, Cl. 292-201.000.

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Juzi, Heinz; and Bernasconi, Marco L., 4,681,129, Cl. 137-154.000.

Bernatets, Jean-Luc, to U.S. Philips Corporation. Improved method and device for measuring frequency dependent parameters of objects by means of ultrasound echography. 4,676,251, 6-30-87, Cl. 128-660.000.

Bernath, Gabor; Kobor, Jeno; Fulop, Ferenc; Motika, Gabor; Sohajda, Attila; Ezer, Elemer; Hajos, Gyorgy; Palosi, Eva; Denes, Laszlo; and Szporny, Laszlo, to Richter Gedeon Vegyeszeti Gyar Rt. Bis(substituted methyl)-methyl-isoquinoline derivatives and pharmaceutical compositions containing them. 4,654,351, 3-31-87, Cl. 514-307.000.

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Bernath, Oskar, to Georg Fischer Aktiengesellschaft. Mechanism for deposition of sheet metal. 4,681,003, 7-21-87, Cl. 83-80.000.

Bernath, Oskar, to Georg Fischer Aktiengesellschaft. Device for trimming the edges of veneer. 4,700,758, 10-20-87, Cl. 144-118.000.

Bernath, Tibor. Apparatus for measuring gas concentrations in a hot gas sample withdrawn from a process chamber. 4,684,509, 8-4-87, Cl. 422-54.000.

Bernauer, Joachim, to KMB Kunststoffmetallbearbeitung GmbH. Heating device and process for controlling the heating device for webs to be unwound from rolls. 4,668,181, 5-26-87, Cl. 432-8.000.

Bernazzani, Richard J.; and Bumbaca, Domenic J., to United States of America, Army. Hand held can opener. 4,689,886, 9-1-87, Cl. 30-416.000.

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Raycher, Robert J.; Pease, Charles C.; and Bernd, Kevin L., 4,660,343, Cl. 52-378.000.

Berndes, Gunter; Neidig, Arno; and Mayer, Eckhard, to Brown, Boveri & Cie AG. Power thyristor on a substrate. 4,672,415, 6-9-87, Cl. 357-38.000.

Berndt, Fred P., Jr., to Reese Enterprises, Inc. Floor covering connecting and supporting structure. 4,675,222, 6-23-87, Cl. 428-53.000.

Berndt, Gerhard: *See—*

Bartsch, Adalbert; and Berndt, Gerhard, 4,647,358, Cl. 204-286.000.

Berndt, Klaus-Gunther: *See—*

Preuss, Bernhard; and Berndt, Klaus-Gunther, 4,678,873, Cl. 200-18.000.

Berndt, Lawrence. Compression seals in a double hung style window. 4,704,821, 11-10-87, Cl. 49-446.000.

Berndt, Wolfgang: *See—*

Klausnitzer, Herbert; Berndt, Wolfgang; and Luber, Josef, 4,649,742, Cl. 73-117.000.

Berne, Jean; and Livet, Georges, to Societe Nouvelle des Ateliers et Chantiers du Havre. Process and machines for automatically welding or cutting the junction point between a main pipe and a secondary branch pipe. 4,659,903, 4-21-87, Cl. 219-125.110.

Berne, Robert M.; Belardinelli, Luiz; and Rubio, Rafael, to University of Virginia Alumni Patents Foundation, The. Adenosine in the treatment of supraventricular tachycardia. 4,673,563, 6-16-87, Cl. 424-9.000.

Berner, Erwin; and Zettel, Hans-Dieter, to Robert Bosch GmbH. Machine housing. 4,637,196, 1-20-87, Cl. 53-77.000.

Berner, Godwin; and Rutsch, Werner, to Ciba-Geigy Corporation. Hardening of acid-hardenable compositions containing a blocked hardening catalyst, using heat. 4,699,949, 10-13-87, Cl. 525-162.000.

Berner, Heinz; and Vyplel, Hermann, to Sandoz Ltd. Pleuromutilin derivatives process for their preparation and their use. 4,675,330, 6-23-87, Cl. 514-365.000.

Berner, Paul C., Jr.: *See—*

Galle, Edward M., Jr.; Gendron, Kevin; and Berner, Paul C., Jr., 4,691,780, Cl. 166-348.000.

Bernet, Alois, to Heinrich Schmid Maschinenund Werkzeugbau AG. Wobble-die forging machine. 4,651,548, 3-24-87, Cl. 72-71.000.

Bernet, Alois, to Heinrich Schmid Maschinen-und Werkzeugbau AG. Wobble-die forging machine. 4,698,992, 10-13-87, Cl. 72-67.000.

Bernet, Jean M.: *See—*

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Bernet, Jean-Marie: *See—*

Charles, Gilbert; Assadoullah, Assad; and Bernet, Jean-Marie, 4,637,733, Cl. 368-120.000.

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Berneth, Horst; and Brack, Alfred, to Bayer Aktiengesellschaft. Chromogenic 4,4-diaryl-dihydroquinazolones, their preparation and their use. 4,695,633, 9-22-87, Cl. 544-286.000.

Bernewitz, Lore; Falckenberg, Richard; Hoyler, Gerhard; and Grabmaier, Josef, to Siemens Aktiengesellschaft. Carbon fiber substrate pretreatment for manufacturing crack-free, large-surface silicon crystal bodies for solar cells. 4,657,627, 4-14-87, Cl. 156-607.000.

Bernhagen, James R.; Crabb, Elmer R.; Murphy, Marilyn S.; Roley, Daniel G.; St. Germain, Gene R.; and Tunnell, James H., to Caterpillar Inc. Vehicle steering apparatus. 4,700,794, 10-20-87, Cl. 180-6.440.

Bernhard, Claus: *See—*

Hambrecht, Juergen; Schmitt, Burghard; Swoboda, Johann; Wassmuth, Georg; Bernhard, Claus; and Stephan, Rudolf, 4,634,734, Cl. 525-85.000.

Bernhard, Dieter: *See—*

Fischer, Matthias; Hartig, Franz; Bernhard, Dieter; and Gobel, Hilmar, 4,669,595, Cl. 192-106.200.

Bernhard Forster GmbH: *See—*

Forster, Rolf, 4,668,187, Cl. 433-25.000.

Bernhard, Herbert, to Seitz Enzinger Noll Maschinenbau Aktiengesellschaft. Filling element for filling machines. 4,644,981, 2-24-87, Cl. 141-39.000.

Bernhard, Ragnar, to Stora Kopparbergs Bergslags AB. Method for preparing compositions which can be used in the production of sodium dithionite; and the use of such compositions. 4,680,136, 7-14-87, Cl. 252-188.200.

Bernhard, Ragnar: *See—*
  Santen, Sven; Bernhard, Ragnar; and Malmeblad, Sven-Erik, 4,692,209, Cl. 162-30.100.
  Santen, Sven; Eriksson, Sven; and Bernhard, Ragnar, 4,710,269, Cl. 162-30.100.

Bernhard, Stephen, to Atterton and Ellis Limited. Relief grinding of lawn mower cylindrical blades. 4,694,613, 9-22-87, Cl. 51-34.00C.

Bernhard, Wilfried, to Standard Elektrik Lorenz Aktiengesellschaft. Deflection system for color picture tubes. 4,668,929, 5-26-87, Cl. 335-211.000.

Bernhardt, David L.; and Nenov, Neno T., to Nu Con Corporation. Method of producing molded parts and casting pattern therefor. 4,682,643, 7-28-87, Cl. 164-34.000.

Bernhardt, Guenter: *See—*
  Fabinski, Walter; Apel, Willi; Bernhardt, Guenter; Jezdinsky, Rudolf; and Wolf, Heinz, 4,671,664, Cl. 356-440.000.

Bernhardt, Randal J.; Loeb, Melvin L.; and Kay, James W., to Stepan Company. Organometallic compounds. 4,675,422, 6-23-87, Cl. 556-13.000.

Bernhardt, Richard P.; and Bowman, Robert L., to New Holland Inc. Method and apparatus for mounting concaves. 4,711,252, 12-8-87, Cl. 130-27.00S.

Bernhardt, Siegfried; and Schmidgen, Hans. Apparatus for the manufacture of a nonwoven fabric. 4,697,311, 10-6-87, Cl. 19-161.100.

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  Weintraub, Marvin H.; Bernier, Donald R.; and Cameron, Larry, 4,693,419, Cl. 239-63.000.

Bernier, Edward J.: *See—*
  Walker, Robert H.; Palmer, David A.; Salvatore, Donna M.; and Bernier, Edward J., 4,670,473, Cl. 518-706.000.

Bernier, Lucien. Press router. 4,652,191, 3-24-87, Cl. 409-182.000.

Bernier, Richard E.: *See—*
  Ciarcia, Ronald D.; DiVincenzo, Gregory T.; Bernier, Richard E.; and Nagy, Joseph G., 4,679,016, Cl. 335-132.000.
  Ciarcia, Ronald D.; DiVincenzo, Gregory T.; Doughty, Dennis J.; and Bernier, Richard E., 4,698,903, Cl. 29-622.000.

Berning, Helmut: *See—*
  Schroder, Gunter; and Berning, Helmut, 4,638,234, Cl. 318-661.000.

Berning, Peter H.; and Phillips, Roger W., to Optical Coating Laboratory, Inc. Thin film optically variable article and method having gold to green color shift for currency authentication. 4,705,300, 11-10-87, Cl. 283-91.000.

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Berning, Scott A.: *See—*
  Mueller, James W.; and Berning, Scott A., 4,668,911, Cl. 324-208.000.

Bernitsky, Thom V.: *See—*
  Doty, Mitchell E.; and Bernitsky, Thom V., 4,689,247, Cl. 427-126.100.

Bernitz, Bernhard; Brodmann, Richard; and Hermann, Dietmar, to Continental Gummi-Werke Aktiengesellschaft. Profiled strip. 4,643,923, 2-17-87, Cl. 428-31.000.

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Bernius, Mark T.; and Morrison, George H., to Cornell Research Foundation, Inc. Cryogenic sample stage for an ion microscope. 4,663,944, 5-12-87, Cl. 62-514.00R.

Bernklau, Daniela: *See—*
  Schmid, Ralf; Otto, Johann; Bernklau, Daniela; and Knapek, Erwin, 4,640,626, Cl. 374-57.000.

Bernocco, Giovanni, to TEMSIR S.r.l. Electrically controlled motorcycle stand. 4,693,488, 9-15-87, Cl. 280-293.000.

Bernosky, Philip J.: *See—*
  Dreibelbis, John D.; Pechter, David S.; and Bernosky, Philip J., 4,653,681, Cl. 228-4.500.

Berns, Antonius J. M.; and Gielkens, Arnold L. J., to Centraal Diergeneeskundig Instituut. Deletion mutant of a herpesvirus and vaccine containing said virus. 4,680,176, 7-14-87, Cl. 424-89.000.

Berns, Everhardus G.: *See—*
  de Hair, Johannes T. W.; van Kemenade, Johannes T. C.; and Berns, Everhardus G., 4,644,223, Cl. 313-487.000.

Bernstein, David, to New Horizons Diagnostics Corporation. Assay utilizing ATP encapsulated within liposome particles. 4,704,355, 11-3-87, Cl. 435-6.000.

Bernstein, David H.; Buckley, Edward M.; March, Roger W.; and Gusowski, Ronald I., deceased (by French, Lloyd S., administrator), to Data General Corporation. Data processing system. 4,649,470, 3-10-87, Cl. 364-200.000.

Bernstein, David H.: *See—*
  Bachman, Brett L.; Bernstein, David H.; Bratt, Richard G.; Clancy, Gerald F.; Gavrin, Edward S.; Gruner, Ronald H.; Jones, Thomas M.; Katz, Lawrence H., Mundie, Craig J.; Pilat, John F.; Richmond, Michael S.; Schleimer, Stephen I.; Wallach, Steven J.; and Wallach, Walter A., Jr., 4,656,579, Cl. 364-200.000.
  Gruner, Ronald H.; Clancy, Gerald F.; Mundie, Craig J.; Schleimer, Stephen I.; Wallach, Steven J.; Bratt, Richard G.; Gavrin, Edward S.; Wallach, Walter A., Jr.; Ahlstrom, John K.; Richmond, Michael S.; Bernstein, David H.; Pilat, John F.; Farber, David A.; and Belgard, Richard A., 4,675,810, Cl. 364-200.000.
  Wallach, Walter A., Jr.; Richmond, Michael S.; Ahlstrom, John K.; Bernstein, David H.; and Bratt, Richard G., 4,661,903, Cl. 364-200.000.

Bernstein, Irwin B., to R. R. Donnelley & Sons Company. Printing fountain solution. 4,641,579, 2-10-87, Cl. 101-451.000.

Bernstein, Isadore A.: *See—*
  Kantrowitz, Adrian; Freed, Paul S.; Vaughan, Frizell L.; Bernstein, Isadore A.; and Gray, Robert H., 4,634,422, Cl. 604-49.000.

Bernstein, Jeffrey G., to PictureTel Corporation. Method and apparatus for multi-dimensional signal processing using a Short-Space Fourier transform. 4,703,349, 10-27-87, Cl. 358-133.000.

Bernstein, Joel E., to Soft Sheen Products, Inc. Liquid detergent with sunscreen agent. 4,701,321, 10-20-87, Cl. 424-60.000.

Bernstein, Jonathan J.; Koger, T. Bruce; and Chanley, Charles S., to Motorola, Inc. Carbon film oxidation for free-standing film formation. 4,705,659, 11-10-87, Cl. 264-29.600.

Bernstein, Michael: *See—*
  Lerner, Michael; Bernstein, Michael; and Selame, Robert, 4,671,587, Cl. 439-142.000.
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  Smith, Gaylord D.; Brown, Douglas S.; Bernstein, Philip; and Weller, John E., 4,673,754, Cl. 556-137.000.

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  Gueugnon, Catherine; and Bernstein, Pierre, 4,666,789, Cl. 428-611.000.

Bernstein, Richard; Anthony, William H.; and Lupfer, David A., to K & L Microwave. SMC filter and method of manufacture thereof. 4,714,905, 12-22-87, Cl. 333-167.000.

Bernstein, Robert E.; and Nelson, Alan E., to Larad Equipment Corporation. Mechanical control system in flow devices. 4,682,755, 7-28-87, Cl. 251-4.000.

Bernstrom, Marvin L., to Eaton Corporation. Two-speed valve-in star motor. 4,715,798, 12-29-87, Cl. 418-57.000.

Berntson, Peter K., to Medtronic, Inc. Circuit for controlling a receiver in an implanted device. 4,676,248, 6-30-87, Cl. 128-419.0PG.

Bernzweig, David S. Metal detector audio amplifier. 4,644,290, 2-17-87, Cl. 330-149.000.

Beroff, Howard; and Duncan, Robert B., to Ethicon, Inc. Non-metallic bio-compatible hemostatic clips (one piece wedge clip). 4,671,28 6-9-87, Cl. 128-346.000.

Berol Kemi AB: *See—*
  Andreasson, Eva M.; Egeli, Finn; Holmberg, Krister A.; Nystrom, Borje; Stridh, Kjell G.; and Osterberg, Eva M., 4,650,000, Cl. 166-307.000.
  Elsby, Leif; and Carlsson, Agneta, 4,710,267, Cl. 162-5.000.
  Hellsten, Karl M. E., 4,659,332, Cl. 8-142.000.
  Koll, Juhan, 4,701,434, Cl. 502-230.000.

Berova, Nikolina D.: *See—*
  Ivanov, Chavdar B.; Mondeshka, Donka M.; Berova, Nikolina D.; Rakovska, Rossitza S.; Panova, Yordanka T.; Markov, Marko T.; Ovcharov, Radi G.; Usunov, Petko D.; and Zabunova, Orhideya B., 4,678,853, Cl. 546-146.000.

Beroza, Gregory A. Gastro-intestinal lavage system and method. 4,715,848, 12-29-87, Cl. 604-35.000.

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  Cabrera, Pedro P.; Berra, Humberto A.; and Doty, Edward N., 4,702,889, Cl. 422-103.000.

Berrada, Samir: *See—*
  Arrey, Kelly J.; and Berrada, Samir, 4,644,871, Cl. 105-4.100.

Berrang, Peter G., to Seastar Instruments Ltd. Remotely operated magnetic release for anchored aquatic instrumentation. 4,664,55 5-12-87, Cl. 405-224.000.

Berreby, Alain: *See—*
  Oguey, Claude; Jamet, Daniel; and Berreby, Alain, 4,645,294, Cl. 350-96.150.

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  Dusel, Robert O.; Keene, Harold J.; Berres, James; and Blaha, Gerald, 4,713,880, Cl. 29-564.400.

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Berrettini, Bruce J.; Bucci, Donald P.; and Hollopeter, Roy D., to Air Products and Chemicals, Inc. Automatic precision liquid loading control system. 4,649,968, 3-17-87, Cl. 141-95.000.

Berridge, Jack A., to Berridge Manufacturing Co. Moisture resistant seam assembly. 4,641,475, 2-10-87, Cl. 52-584.000.

Berridge Manufacturing Co.: *See—*
  Berridge, Jack A., 4,641,475, Cl. 52-584.000.

Berrier, Bernard; and Thiersault, Jean P., to BP Chemicals Limited. Stretchable cling film composition based on polyethylene. 4,680,33 7-14-87, Cl. 524-230.000.

Berrios, Luis H.: *See—*
  Ditsch, John R.; Williams, Theodore G.; and Berrios, Luis H., 4,678,181, Cl. 272-68.000.

Berris, Richard E., Jr.: *See—*
  Hazony, Dov; and Berris, Richard E., Jr., 4,649,749, Cl. 73-597.000.

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Berrou, Jean L.: *See—*
- Wagstaff, Ronald A.; and Berrou, Jean L., 4,648,057, Cl. 364-726.000.

Berry, Craig; and Bennett, Marc. Method and apparatus for simultaneously applying and blending make-up in one step. 4,714,084, 12-22-87, Cl. 132-88.700.

Berry, Don H. Method of and template for joining abutting edges of carpets. 4,671,977, 6-9-87, Cl. 428-62.000.

Berry, Eric S.; and Danti, Bernard R., to Cell Environmental Systems, Ltd. Cell culture system. 4,661,458, 4-28-87, Cl. 435-284.000.

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- Kortering, Randall L.; and Berry, Gordon C., 4,633,789, Cl. 108-152.000.

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- Cohen, Jonathan M.; Berry, Ira R.; and Borkan, Lionel, 4,708,834, Cl. 264-4.300.

erry, Jeffrey R., to Gulton Industries, Inc. Print pulse controller for a thermal printhead. 4,663,734, 5-5-87, Cl. 364-900.000.

erry, Jimmy D.: *See—*
- Pettibone, Craig R.; and Berry, Jimmy D., 4,695,073, Cl. 280-690.000.
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erry, Johnny D., to Integral Corporation. Aqueous hydrogel lubricant. 4,673,516, 6-16-87, Cl. 252-49.500.

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- Bartholomew, Alan; Bauer, Harold; Berry, Loren E.; and Ediger, Glen, 4,693,406, Cl. 227-63.000.

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erry, Ronald L.: *See—*
- Blair, Doyce T., 4,668,529, Cl. 427-54.100.

erry, Thomas G., to Fairchild Industries, Inc. Deployable space panel structure. 4,666,107, 5-19-87, Cl. 244-173.000.

erry, Timothy E.: *See—*
- Greider, C. Austin; and Berry, Timothy E., 4,704,847, Cl. 56-10.500.

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erry, W. Wes, to Advanced Separation Technologies Incorporated. Continuous recovery of sulfur oxide from flue gas. 4,710,364, 12-1-87, Cl. 423-244.000.

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- Ashworth, Robert A.; Rodriguez, Larry A.; Padilla, Antonio A.; Spake, Ned B.; Berry, W. Wes; and Schmeda, Rae A., 4,652,433, Cl. 423-112.000.

erry, William A., to Standard Slag Cement. Cementitious binder for consolidated fill. 4,715,896, 12-29-87, Cl. 106-117.000.

erry, William J.; and McManigan, Michael H., to Berry, William J. Checker type game utilizing interfitting game pieces. 4,643,432, 2-17-87, Cl. 273-260.000.

erryhill, Robert A., to Austin-Berryhill Fabrication, Inc. Air filter and method. 4,711,649, 12-8-87, Cl. 55-97.000.

erryman, Leslie N.; Davis, Gail F.; and Horinek, Herbert J., to Halliburton Company. Transportable material conveying apparatus. 4,701,095, 10-20-87, Cl. 414-332.000.

erryman, Leslie N.: *See—*
- Walker, Lonnie R.; Berryman, Leslie N.; Guffee, Larry E.; Ripley, David E.; and Prucha, David A., 4,715,721, Cl. 366-132.000.

ersani, Pierre, to Parteurosa, Societe Anonyme. Conveyable conta er-shaped structural elements, and structures obtained from such structural elements. 4,653,659, 3-31-87, Cl. 220-1.500.

ersch, Bernhard; Juttner, Heinz; and Tenhaven, Ulrich, to Hoesch Aktiengesellschaft. Apparatus for laser beam welding the longitudinal edges of a can. 4,713,519, 12-15-87, Cl. 219-121.0LC.

Bersch, Bernhard: *See—*
- Warnke, Heinrich; Kaup, Friedel; Bersch, Bernhard; Mertinkat, Willi; and Tenhaven, Ulrich, 4,707,385, Cl. 427-374.100.

Berschauer, Friedrich: *See—*
- Bischoff, Erwin; Muller, Hartwig; Salcher, Olga; Berschauer, Friedrich; Scheer, Martin; de Jong, Anno; and Frobel, Klaus, 4,670,260, Cl. 424-121.000.
- Boshagen, Horst; Stoltefuss, Jurgen; Berschauer, Friedrich; de Jong, Anno; and Scheer, Martin, 4,670,423, Cl. 514-63.000.
- Ingendoh, Axel; Berschauer, Friedrich; Becker, Benedikt; Stendel, Wilhelm; Homeyer, Bernhard; Scheer, Martin; de Jong, Anno; Hanssler, Gerd; and Reinecke, Paul, 4,678,797, Cl. 514-378.000.
- Lockhoff, Oswald; Stadler, Peter; Scheer, Martin; Berschauer, Friedrich; and de Jong, Anno, 4,680,287, Cl. 514-42.000.

Berscheid, Hans G.: *See—*
- Aretz, Werner; Berscheid, Hans G.; Huber, Gerhard; Fehlhaber, Hans-Wolfram; Kraemer, Hans P.; Sedlacek, Hans-Harald; Ganguli, Bimal N.; Sood, Ratan S.; Gandhi, Julia; and Reddy, Gauknapalli C., 4,713,371, Cl. 514-34.000.

Berscheid, Peter; and Friesdorf, Jakob, to Isover Saint-Gobain "Les Miroirs". Method of and apparatus for lining a pipe insulating shell consisting of mineral fibers with a foil. 4,687,530, 8-18-87, Cl. 156-215.000.

Berschiek, Gunter: *See—*
- Hoft, Peter; Peter, Wolfgang; Bergsteiner, Johann; Berschiek, Gunter; Drobe, Wolfgang; Engelke, Fritz; Hacke, Heinz; Hebbinghaus, Walter; and Kuhnert, Siegfried, 4,690,297, Cl. 220-273.000.

Berselli, Orlando: *See—*
- Crotti, Aldo; and Berselli, Orlando, 4,688,805, Cl. 277-84.000.

Bershak, William P. Recreational flying ring having primary and secondary airfoils. 4,669,996, 6-2-87, Cl. 446-48.000.

Bershatsky, Charles, administrator: *See—*
- Greene, Herbert, deceased, 4,654,009, Cl. 434-185.000.

Bersin, Richard L., to Emergent Technologies Corporation. Method and apparatus for dry processing of substrates. 4,687,544, 8-18-87, Cl. 156-643.000.

Bersin, Richard L., to Emergent Technologies Corporation. Method and apparatus for dry processing of substrates. 4,689,112, 8-25-87, Cl. 156-643.000.

Bersin, Richard L., to Emergent Technologies Corporation. Method and apparatus for dry processing of substrates. 4,699,689, 10-13-87, Cl. 156-643.000.

Bert, Wesley J. Temperature sensing system for automatic transmissions. 4,701,741, 10-20-87, Cl. 340-57.000.

Berta, Dominic A., to Hercules Incorporated. Thermoplastic elastomer blends containing ethylene-propylene thermoplastic block copolymer elastomers. 4,672,091, 6-9-87, Cl. 525-88.000.

Berta, Joseph: *See—*
- Joseph, Gerald; and Berta, Joseph, 4,709,908, Cl. 267-140.400.

Bertaina, Brigitte; Cambon, Aime; and Lantz, Andre, to Atochem. 2,2-bis-(2-perfluoroalkylethylthio)-acetaldehydes and process for production thereof. 4,683,339, 7-28-87, Cl. 568-41.000.

Bertaux, Jean-Paul: *See—*
- Boutterin, Daniel; Bertaux, Jean-Paul; and Bader, Alain, 4,639,916, Cl. 371-16.000.

Berte , Marc; Bidard, Louis; and Lechopier, Serge, to Compagnie d'Electronique et de Piezo-Electricite. Method of fabricating a high-frequency piezoelectric resonator. 4,656,707, 4-14-87, Cl. 29-25.350.

Bertelli, Alberto, to Italfarmaco S.A. Pharmaceutical formulations containing coenzyme Q_{10} suitable for topic administration. 4,654,373, 3-31-87, Cl. 514-690.000.

Bertelli, Alberto, to Seuref A.G. Pharmaceutical compositions having cerebral antianoxic and metabolic activities. 4,684,520, 8-4-87, Cl. 424-94.100.

Bertelli, Guido; and Locatelli, Renato, to Himont Incorporated. Flame resistant thermoplastic polymeric compositions comprising (1) melamine bromohydrate and (2) Sb or As compound endowed with improved flame-resistance. 4,710,528, 12-1-87, Cl. 524-100.000.

Bertelsen, John C., to Bertelsen, John C. Filtering system for paper handling machines. 4,678,489, 7-7-87, Cl. 55-418.000.

Bertelsen, Matthew H.; and Klapperich, Gary, to Bertelsen, Matthew H. Computer environment filter apparatus having wing with internal baffles. 4,690,042, 9-1-87, Cl. 98-115.100.

Bertenyi, Istvan: *See—*
- Barnes, Ramon M.; and Bertenyi, Istvan, 4,688,935, Cl. 356-36.000.

Bertesi, Ezio; and Bertesi, Marco, to Cartoplast Bertesi S.p.A. Computer printout and document holding device. 4,652,165, 3-24-87, Cl. 402-4.000.

Bertesi, Marco: *See—*
- Bertesi, Ezio; and Bertesi, Marco, 4,652,165, Cl. 402-4.000.

Bertez, Chantal: *See—*
- Coquelet, Claude; Bertez, Chantal; Bonne, Claude; and Sincholles, Daniel, 4,656,184, Cl. 514-370.000.

Berth, Jorgen: *See—*
- Mattis, John S.; Berth, Jorgen; and Locke, Gilbert E., 4,648,684, Cl. 339-177.00R.

Bertha, Josef, to Austria Metall Aktiengesellschaft. Hydrometallurgical process for recovering silver from copper electrolysis anode sludge. 4,666,514, 5-19-87, Cl. 75-118.00R.

Berthet, Hubert; and Laugier, Noel, to Institut Francais du Petrole. Connection system between a main body and a super-structure. 4,708,526, 11-24-87, Cl. 405-202.000.

Berthet, Hubert: *See—*
- Behar, Isaac; and Berthet, Hubert, 4,703,709, Cl. 114-256.000.

Berthet, Maurice, to Compagnie Gervais Danone. Assembly for storing, transporting and distributing objects of the bottle, flask or similar type and process for manufacturing same. 4,690,281, 9-1-87, Cl. 206-597.000.

Berthet, Pierre: *See—*

Gerard, Jean-Louis; Berthet, Pierre; Bricot, Claude; and Audoin, Michel, 4,669,077, Cl. 369-275.000.

Berthier, Claude M.; and Friend, Richard H., to British Petroleum Company, p.l.c., The. Novel composites. 4,681,822, 7-21-87, Cl. 429-191.000.

Berthiez-Saint-Etienne: *See—*

Charra, Jean-Pierre, 4,641,415, Cl. 29-568.000.

Bertho, Dominique: *See—*

Bricaud, Herve; and Bertho, Dominique, 4,701,829, Cl. 361-386.000.

Berthold, Fritz; and Pfleger, Manfred, to Laboratorium Prof. Dr. Rudolf Berthold. Method and apparatus for measuring the radioactivity in column eluates. 4,704,531, 11-3-87, Cl. 250-328.000.

Berthold, Hans: *See—*

Schauer, Friedrich; and Berthold, Hans, 4,696,523, Cl. 439-11.000.

Berthold, Heinz: *See—*

Beutler, Gerhard; and Berthold, Heinz, 4,668,171, Cl. 417-213.000.

Berthold, Richard; Louis, William J.; and Stoll, Andre, to Louis, William John. 3-aminopropoxyphenyl derivatives, their preparation and pharmaceutical compositions containing them. 4,661,513, 4-28-87, Cl. 514-459.000.

Bertholet, Raymond, to Nestec S.A. Preparation of cafestol. 4,692,534, 9-8-87, Cl. 549-456.000.

Bertholet, Raymond: *See—*

Hirsbrunner, Pierre; and Bertholet, Raymond, 4,652,711, Cl. 260-501.130.

Berti, Brunilde: *See—*

Berretti, Rodolfo; Tarli, Paolo; and Berti, Brunilde, 4,643,974, Cl. 435-287.000.

Berticevich, Edward N.: *See—*

Shearon, Charles W.; Berticevich, Edward N.; and Billett, Ronald J., 4,685,214, Cl. 30-391.000.

Bertiller, Roland; Kellner, Gerd; and Reudelsterz, Helmut, to Mauser-Werke Oberndorf GmbH. Gastight seal of a gun barrel. 4,633,755, 1-6-87, Cl. 89-29.000.

Bertiller, Roland; Kellner, Gerd; and Reudelsterz, Helmut, to Mauser-Werke Oberndorf GmbH. Insert for reducing the caliber of a weapon. 4,642,928, 2-17-87, Cl. 42-77.000.

Bertin & Cie: *See—*

de Goncourt, Louis, 4,667,921, Cl. 248-618.000.

Mattout, Richard, 4,643,021, Cl. 73-59.000.

Pavlin, Cyrille F., 4,670,638, Cl. 219-121.0LU.

Viannay, Stephane G. J.; Roth, Bernard M.; Mirigay, Solange M. V.; and Chastang, Georges J. B., 4,711,431, Cl. 266-114.000.

Bertin, Giorgio: *See—*

Accatino, Luciano; and Bertin, Giorgio, 4,652,836, Cl. 331-96.000.

Bertin, Jean: *See—*

Wick, Alexander; Frost, Jonathan; and Bertin, Jean, 4,661,498, Cl. 514-302.000.

Wick, Alexander; Frost, Jonathan; Gaudilliere, Bernard; Bertin, Jean; Dupont, Regis; and Rousseau, Jean, 4,690,931, Cl. 514-317.000.

Bertina, Domenico, to Ing. C. Olivetti & C., S.p.A. Keyboard having variable inclination of the key plane. 4,658,124, 4-14-87, Cl. 235-145.00R.

Bertini, Millo. Gripper device. 4,671,553, 6-9-87, Cl. 294-88.000.

Bertini, Vincenzo; Marabini, Anna; De Munno, Angela; Barbaro, Maria; and Pocci, Marco, to Consiglio Nazionale Delle Ricerche. Synthetic organic polymers for the selective flocculation of titanium and iron ores. 4,698,171, 10-6-87, Cl. 252-60.000.

Bertling, Hannes; and Leiber, Heinz, to Robert Bosch GmbH. System and method for supplying fluid under pressure for a vehicle brake system. 4,640,555, 2-3-87, Cl. 303-10.000.

Bertocchi, Giuseppe, to International Standard Electric Corporation. Device for pulse modulation automatic control. 4,698,637, 10-6-87, Cl. 342-399.000.

Bertocchi, Primo. Rotary machine for extraction of juice and puree from tomatoes, fruit and other produce. 4,643,085, 2-17-87, Cl. 99-510.000.

Bertocchio, Rene; Gagnieur, Andre; and Mathais, Henri, to Atochem. Chlorofluorinated fluids for absorption machines. 4,647,391; 3-3-87, Cl. 252-69.000.

Bertocci, Guido: *See—*

Benvenuto, Nevio; and Bertocci, Guido, 4,677,423, Cl. 340-347.0DD.

Bertoglio, Guido, to Water Line S.A. Machine for filling bags with a liquid and sealing them. 4,712,360, 12-15-87, Cl. 53-567.000.

Bertoglio, Ottavio: *See—*

Astegiano, Luciano; Bertoglio, Ottavio; Bosco, Fulvio; de Bosio, Alfredo; Franco, Dario; Lampiano, Piero; Melle, Antonio; and Rosboch, Luciano, 4,706,270, Cl. 379-2.000.

Bertok, Bela: *See—*

Szekely, Istvan; Botar, Sandor; Dolgos nee Kekesi, Krisztina; Bertok, Bela; Gajary, Antal; Szabolcsi, Tamas; Kovacs, Gabor; and Lovasz nee Gaspar, Marianna, 4,638,002, Cl. 514-212.000.

Bertolacini, Ralph J.: *See—*

Unmuth, Eugene E.; Mahoney, John A.; and Bertolacini, Ralph J., 4,636,299, Cl. 208-87.000.

Bertolasi, Robert B.: *See—*

Harvey, Dennis N.; and Bertolasi, Robert B., 4,690,001, Cl. 73-800.000.

Bertoli, Luciano: *See—*

Badiali, Roberto; Bertoli, Luciano; and Speranzin, Claudio, 4,637,205, Cl. 57-22.000.

Bertolini, William. Firing pin safety mechanism. 4,658,529, 4-21-87, Cl. 42-70.080.

Bertolini, William A., to JD-Bertolini Industries, Ltd. Extendable chassis. 4,635,742, 1-13-87, Cl. 180-209.000.

Bertolotti, Franco, to Montedison S.p.A. Cutting device for the hot granulation of thermoplastic polymers. 4,671,756, 6-9-87, Cl. 425-142.000.

Bertolotti, Franco, to Montedison S.p.A. Die for hot die face cutting thermoplastic polymers. 4,678,423, 7-7-87, Cl. 425-311.000.

Berton, Andrew S., to Incomm Direct Pty. Ltd. Word forming tile game. 4,690,410, 9-1-87, Cl. 273-299.000.

Bertonneau, Gerald R. Coupler for assembling segmented skis. 4,645,228, 2-24-87, Cl. 280-603.000.

Bertorello, Mario, to Rotomors S.p.A. System for controlling the jaws of a self-centering platform (pallet) which can be moved between fittings (pallet supports) carried by the loading and unloading station and the working station of a machine tool. 4,678,077, 7-7-87, Cl. 198-803.010.

Bertorello, Mario, to Rotomors S.p.A. Systems including at least one vertical turning machine or the like and at least two auxiliary stations. 4,712,283, 12-15-87, Cl. 29-33.00P.

Bertot, Maurice: *See—*

Rudi, Alain; and Bertot, Maurice, 4,678,906, Cl. 250-227.000.

Bertotti, Franco; Ferla, Giuseppe; Musumeci, Salvatore; and Raciti, Salvatore, to SGS Microelettronica S.p.A. Monolithically integrated semiconductor power device. 4,641,171, 2-3-87, Cl. 357-46.000.

Bertotti, Franco; Ferrari, Paolo; Silvestri, Luigi; and Villa, Flavio, to SGS Microelettronica S.p.A. Buried-resistance semiconductor device and fabrication process. 4,663,647, 5-5-87, Cl. 357-51.000.

Bertotti, Franco: *See—*

Villa, Flavio; Murari, Bruno; Cini, Carlo; and Bertotti, Franco, 4,672,235, Cl. 307-255.000.

Villa, Flavio; Murari, Bruno; Bertotti, Franco; Torazzina, Aldo; and Stefani, Fabrizio, 4,682,197, Cl. 357-36.000.

Bertozzi, Marcello, to Quartzcolor Ianiro S.p.A. Lighting projector with an intensified and accelerated air flow cooling system for photographic and motion picture studios. 4,658,338, 4-14-87, Cl. 362-226.000.

Bertozzi, Marcello; and Casamento, Roberto, to Quarzcolor Ianiro S.p.A. Modular, composable lighting projector for illumination from the ground. 4,707,766, 11-17-87, Cl. 362-11.000.

Bertram, Christopher D.: *See—*

Farrell, Peter C.; Bertram, Christopher D.; and Milthorpe, Bruce K., 4,640,896, Cl. 436-34.000.

Bertram, Dieter: *See—*

Dautzenberg, Horst; Loth, Fritz; Borrmeister, Bodo; Bertram, Dieter; Lettau, Herbert; Stamberg, Jiri; and Peska, Jan, 4,664,105, Cl. 128-156.000.

Bertram, Heidrun-Leonore: *See—*

Tanner, Herbert; Bertram, Heidrun-Leonore; Richter, Reinhard; and Spindler, Manfred, 4,705,689, Cl. 426-2.000.

Bertram, James L.; Walker, Louis L.; McCrary, Avis L.; and Cortez, Fermin M., to Dow Chemical Company, The. Method for reducing 2-functional components in novolac resins and epoxy novolac resins prepared therefrom. 4,649,188, 3-10-87, Cl. 528-165.000.

Bertram, James L.; and Walker, Louis L., to Dow Chemical Company, The. Triazine containing epoxy resins having improved thermal stability. 4,665,149, 5-12-87, Cl. 528-96.000.

Bertram, James L.; and Woo, Edmund P., to Dow Chemical Company, The. Epoxy resins from hydroxy benzamides. 4,673,764, 6-16-87, Cl. 564-155.000.

Bertram, James L.; and Woo, Edmund P., to Dow Chemical Company, The. Epoxy resins from hydroxy benzamides. 4,673,765, 6-16-87, Cl. 564-155.000.

Bertram, James L.; and Woo, Edmund P., to Dow Chemical Company, The. Dihydroxypropoxy derivatives of hydroxybenzamides. 4,675,443, 6-23-87, Cl. 564-155.000.

Bertram, Leo; Diefenbach, Gerhard; and Schemmann, Hugo, to U.S. Philips Corporation. Single-phase synchronous motor with two-pole permanent-magnet rotor. 4,636,676, 1-13-87, Cl. 310-162.000.

Bertram, Leo; Bukoschek, Romuald L.; and Steiner, Peter, to U.S. Philips Corporation. Corkscrew device. 4,637,283, 1-20-87, Cl. 81-3.200.

Bertram, Leo; and Schemmann, Hugo, to U.S. Philips Corporation. Synchronous motor having a permanent-magnet modular rotor. 4,684,840, 8-4-87, Cl. 310-162.000.

Bertram, Leo; and Schemmann, Hugo, to U.S. Philips Corporation. Synchronous motor with two-pole permanent-magnet soft-magnetic-core rotor. 4,691,132, 9-1-87, Cl. 310-156.000.

Bertram, Leo; and Schemmann, Hugo, to U.S. Philips Corporation. Single-phase synchronous motor comprising a two-pole permanent-magnet rotor. 4,714,851, 12-22-87, Cl. 310-156.000.

Bertram, Leo: *See—*

Schroder, Johann; Gawron, Klaus; Bertram, Leo; and Schemmann, Hugo, 4,709,752, Cl. 165-47.000.

Bertram, William: *See—*

Dickinson, Peter D.; and Bertram, William, 4,660,833, Cl. 273-143.00R.

Bertrand, Jean-Jacques, to Pomagalski S.A. Electrically driven detachable gondola lift or chair lift. 4,641,584, 2-10-87, Cl. 104-173.200.

Bertrand, Jean-Jacques, to Pomagalski S.A. Device for detecting and localizing a fault in an aerial rope-way transport installation. 4,697,169, 9-29-87, Cl. 340-540.000.

Bertrand, Jean-Noel M., to Montefina, S.A. Expanded polypropylene films. 4,638,015, 1-20-87, Cl. 521-85.000.

Bertrand, Jean-Noel M., to Montefina, S.A. Expanded polypropylene and articles thereof. 4,650,816, 3-17-87, Cl. 521-85.000.

Bertrand, Jean-Noel M., to Labofina, S.A. Self-extinguishing polystyrenic compositions. 4,699,943, 10-13-87, Cl. 324-380.000.

Bertrand, Jean-Paul: *See—*
Balquet, Robert; Baubeau, Robert; Bertrand, Jean-Paul; Guezou, Jean-Pierre; and Carron, Philippe, 4,708,077, Cl. 114-67.00A.

Bertrand, Jean-Paul A.; Guezou, Jean-Pierre R.; Balquet, Robert J.; Marcouyoux, Sylvain J. A.; and Jodelet, Francois C. L., to Etat Francais. Surface effect type, side keel vessel fitted with an improved forward buoyancy cushion seal apparatus. 4,646,866, 3-3-87, Cl. 180-126.000.

Bertrand, Pierre, to Sereg, S.A. Inductive differential pressure sensor. 4,665,753, 5-19-87, Cl. 73-706.000.

Bertrand, Pierre C., to Sereg, S.A. Device for measuring temperature. 4,666,656, 5-19-87, Cl. 376-247.000.

Bertsch, Carl F.: *See—*
Luckenbach, Edward C.; and Bertsch, Carl F., 4,666,584, Cl. 208-113.000.

Bertsch, John E., to International Business Machines Corporation. Offset corrected amplifier. 4,707,667, 11-17-87, Cl. 330-9.000.

Bertsch, Ludo: *See—*
Dodds, David E.; and Bertsch, Ludo, 4,677,646, Cl. 375-36.000.

Bertsch, Richard; Gunther, Dieter; Knapp, Heinrich; and Piapp, Gunther, to Robert Bosch GmbH. Fuel supply line. 4,660,524, 4-28-87, Cl. 123-468.000.

Bertsch, Richard; Gunther, Dieter; and Ruppmann, Claus, to Robert Bosch GmbH. Pressure regulating device. 4,664,142, 5-12-87, Cl. 137-507.000.

Bertsch, Richard; Biermann, Eberhard; Gunther, Dieter; Ruppmann, Claus; and Nagele, Erwin, to Robert Bosch GmbH. Flow rate meter with pressure equalizer conduit. 4,665,757, 5-19-87, Cl. 73-861.760.

Bertucci, Enrico: *See—*
Pruett, Earl M., 4,673,399, Cl. 604-272.000.

Bertus, Brent J.; McKay, Dwight L.; and Mark, H. Wayne, to Phillips Petroleum Company. Cracking catalyst restoration with aluminum compounds. 4,664,779, 5-12-87, Cl. 208-114.000.

Bertus, Brent J.: *See—*
Coombs, Daniel M.; Nowack, Gerhard P.; Bertus, Brent J.; and Kukes, Simon G., 4,671,866, Cl. 208-251.00H.
Coombs, Daniel M.; Cymbaluk, Ted H.; Bertus, Brent J.; and Kukes, Simon G., 4,680,105, Cl. 208-251.00H.
Coombs, Daniel M.; Cymbaluk, Ted H.; Bertus, Brent J.; and Kukes, Simon G., 4,705,768, Cl. 502-213.000.
Kolts, John H.; Bertus, Brent J.; and Coombs, Daniel M., 4,670,134, Cl. 208-251.00H.

Berty, [illegible] M., to Berty Reaction Engineers, Ltd. Instrument to measure catalytic reaction rates. 4,676,955, 6-30-87, Cl. 422-130.000.

Berty Reaction Engineers, Ltd.: *See—*
Berty, Jozsef M., 4,676,955, Cl. 422-130.000.

Berube, Ghislain R. Adjustable seat cushion. 4,635,622, 1-13-87, Cl. 128-68.000.

Berube, Gilles; and Langlois, Raymond, to Minister of National Defence of Her Majesty's Canadian Government. Centering adaptor for an anti-armour kinetic energy penetrator. 4,633,782, 1-6-87, Cl. 102-518.000.

Beruvides, Mario, to Waynesboro Textiles, Inc. Anticocking high torque removal closure assembly. 4,697,715, 10-6-87, Cl. 215-330.000.

Berwart, Emile: *See—*
Gago, Ignace; and Berwart, Emile, 4,703,713, Cl. 118-19.000.

Berwick, James W., Jr.; and Thomason, Gary C., to Boeing Company, The. Aircraft automatic trim system. 4,684,085, 8-4-87, Cl. 244-178.000.

Berwick, Martin A.: *See—*
Myers, Drewfus Y., Jr.; Alexandrovich, Peter S.; Pearce, Glenn T.; Santilli, Domenic; Sreekumar, Chandrasekha; Berwick, Martin A.; Upson, Donald A.; and Goebel, William K., 4,708,923, Cl. 430-112.000.

Berwind Corporation: *See—*
Eichberger, Robert T., 4,676,100, Cl. 73-304.00C.
Fleckenstein, Phillip P.; and Marsh, Norman F., 4,695,685, Cl. 200-61.210.
McGookin, Hugh R., 4,676,099, Cl. 73-290.00B.

Berz, Gerhard; Braun, Hans J.; and Schlanzke, Claus G., to SMS Schloemann-Siemag AG. Stacking profile elements in nested groups. 4,648,770, 3-10-87, Cl. 414-30.000.

Berz, Hans-Peter, to Intropa S.A. Electrically heated coffee percolator. 4,634,838, 1-6-87, Cl. 219-297.000.

Bes, Richard F. T.; and Knol, Jan D., to Holland Colours Apeldoorn B.V. Solid particulate coloring composition. 4,681,632, 7-21-87, Cl. 106-19.000.

Besam AB: *See—*
Norrgren, Bo; and Bjelk, Nils, 4,713,545, Cl. 250-338.000.

Besanceney, Michel, to Alsthom. Inspection device for rotor binding defects in electrical machines. 4,709,582, 12-1-87, Cl. 73-622.000.

Besancon, Francois; and Chast, Francois, to Societe d'Etudes Scientifiques et Industrielles de l'Ile de France. Process for determining hypoacidity. 4,661,338, 4-28-87, Cl. 424-7.100.

Besche, Anton; Hecker, Rolf; and Schwarze, Klaus, to Continental Gummi-Werke Aktiengesellschaft. Flexible hose. 4,662,405, 5-5-87, Cl. 138-125.000.

Besche, Anton; Osterling, Jost; and Schwarze, Klaus, to Continental Gummi-Werke Aktiengesellschaft. Method of producing hoses with contractable inner linings. 4,707,203, 11-17-87, Cl. 156-85.000.

Besecke, Siegmund; Schroeder, Guenter; Siegert, Hermann-Josef; and Gaenzler, Wolfgang, to Rohm GmbH. Method for making isobutyric acid. 4,647,696, 3-3-87, Cl. 562-606.000.

Besecke, Siegmund; Liebler, Ralf; Hohage, Heinz-Juergen; and Schroeder, Guenter, to Rohm GmbH. UV-absorbing monomer and polymers thereof. 4,652,656, 3-24-87, Cl. 548-261.000.

Besecke, Siegmund; and Schroeder, Guenter, to Rohm GmbH. Method of making methacrylamides. 4,675,442, 6-23-87, Cl. 564-135.000.

Besecke, Siegmund: *See—*
Ude, Werner; Besecke, Siegmund; Riemann, Achim; and Schroeder, Guenther, 4,698,448, Cl. 568-14.000.

Besemann, Alfred, to E.C.H. Will (GmbH & Co.). Method and apparatus for zig-zag folding webs of paper and the like. 4,708,332, 11-24-87, Cl. 270-39.000.

Besemann, Alfred, to E. C. H. Will (GmbH & Co.). Self-locking device for transmitting torque to bobbin cores. 4,715,551, 12-29-87, Cl. 242-46.400.

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Hicks, Roger J.; and Hufgard, John W., 4,640,696, Cl. 55-227.000.

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Jdid, El A.; Blazy, Pierre; Bessiere, Jacques; and Floreancig, Antoine, 4,634,580, Cl. 423-100.000.
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Bessone, Mario, to RIV-SKF Officine Di Villar Perosa S.p.A. Sealing assembly particularly for railway axle bearings. 4,687,211, 8-18-87, Cl. 277-50.000.

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Dunphy, Gerald F.; and Best, Lance E., 4,639,022, Cl. 292-150.000.

Best Lock Corporation: *See—*
Best, Walter E.; and Foshee, William R., 4,655,059, Cl. 70-224.000.
Foshee, William R., 4,633,690, Cl. 70-451.000.
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Foshee, William R., 4,663,839, Cl. 29-804.000.
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Bestek, Heinz; Ewald, Werner; Hennecke, Hans-Peter; Roeder, Alfred; and Schmitz, Friedrich, to Rheinische Kalksteinwerke GmbH. Process for producing calcium hydroxide. 4,636,379, 1-13-87, Cl. 423-640.000.

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Tittizer, Gabriel; Junghans, Ewald; Bestenreiner, Georg; and Dahm, Christian, 4,710,034, Cl. 384-110.000.

Bestobell Sparling Limited: *See—*
Johnson, Rodney C., 4,708,022, Cl. 73-861.280.

Bestobell (UK) Limited: *See—*
Bunker, Peter F.; and Scott, Michael J., 4,668,943, Cl. 340-606.000.

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Sullivan, Leroy J., 4,658,700, Cl. 89-33.020.

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Poleschuk, Nicholas A.; and Poleschuk, LeRoy A., 4,683,521, Cl. 362-80.000.

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Hill, William R., 4,671,279, Cl. 128-334.00R.
Krumme, John F., 4,643,500, Cl. 339-30.000.
Krumme, John F.; and Hodgson, Darel E., 4,645,489, Cl. 604-65.000.
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Volk, Joseph A., Jr., 4,671,757, Cl. 425-144.000.
Volk, Joseph A., Jr.; and Kniepmann, Mark R., 4,678,424, Cl. 425-331.000.
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Bolon, Craig, 4,670,656, Cl. 250-385.000.

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Bohmer, William; Betancourt, Walter J.; and Hoffman, Louis S., 4,641,923, Cl. 350-335.000.

Betek Bergbau-und Hartmetalltechnik Karl-Heinz Simon GmbH & Co. KG: *See—*
Wetzinger, Johann, 4,650,256, Cl. 299-92.000.

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Betensky, Ellis I.: *See—*
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Beth Israel Hospital Association, The: *See—*
Klein, Lester A. 4,660,560, Cl. 128-344.000.
Lanner, Michael; and Coffey, Cynthia L., 4,648,351, Cl. 119-17.000.

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Mosbach, Erwin H.; McSherry, Charles K.; and Kuroki, Syoji, 4,648,995, Cl. 260-397.100.

Bethea, James R.; and Knight, Clifton T., to Dow Chemical Company, The. Low pressure drop, modular coextrusion feedblock. 4,708,615, 11-24-87, Cl. 425-131.100.

Bethel, George F.: *See—*
Erich, Richard R., 4,715,240, Cl. 74-52.000.

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Bethell, Michael R.; Gaines, Michael G.; Mowat, James F., Jr.; Wheeler, Roger D.; and Woidke, Richard P., to Monroe Auto Equipment Company. Gas pressurized shock absorber assembly. 4,712,353, 12-15-87, Cl. 53-80.000.

- Bethge, Gerhard; and Schmitz, Albert, to Robert Bosch GmbH. Device for attaching a screw cap to a container. 4,669,250, 6-2-87, Cl. 53-331.500.
- Bethke, Timothy A.: *See—*
  - Wagner, Wayne M.; and Bethke, Timothy A., 4,676,111, Cl. 73-865.600.
- Bethlehem Steel Corporation: *See—*
  - Abrams, H. ile; and Paules, John R., 4,662,950, Cl. 148-12.00F.
  - Fountoulakis, Stavros G.; Steinbicker, Richard N.; Hruskoci, Daniel E.; and Singh, Rajesh K., 4,708,779, Cl. 204-27.000.
  - Giles, Philip M., Jr., 4,662,953, Cl. 148-36.000.
  - Gilles, Herbert L., 4,699,202, Cl. 164-455.000.
  - Lambert, Michael R., 4,666,791, Cl. 428-621.000.
  - Lawrence, Craig J.; and Ferriola, John J., 4,679,774, Cl. 266-246.000.
  - Lepson, Robert E., 4,650,441, Cl. 464-16.000.
  - Moskowitz, I., 4,683,825, Cl. 105-148.000.
  - Schmidt, Manfred; and Fenicle, Theodore W., 4,715,586, Cl. 266-275.000.
  - Steele, James E., 4,668,127, Cl. 405-198.000.
  - Voye, Joseph L., Jr., 4,656,856, Cl. 72-11.000.
- Bethmann, Heinz-G.: *See—*
  - Ettischer, Helmut; Bethmann, Heinz-G.; Munz, Rolf; Radtke, Manfred; and Uffinger, Friedrich, 4,699,371, Cl. 271-99.000.
- Bethmann, Karl W.: *See—*
  - Boecker, Juegen; Gersbach, Klaus; and Bethmann, Karl W., 4,677,915, Cl. 102-517.000.
- Bethuel, Louis; Martin, Laurent; and Dujardin, Thierry, to Commissariat a l'Energie Atomique. Liquid-liquid exchangers and process of using. 4,636,290, 1-13-87, Cl. 204-186.000.
- Betlinski, Glenn M.: *See—*
  - Cameron, Thomas M.; and Betlinski, Glenn M., 4,634,346, Cl. 416-247.00R.
- Betro, Joseph N.; Smith, George F., and Henry, Vince M., to J. C. Baxter Co. Foot for expendable corrugated pallets. 4,67[illegible],188, 6-9-87, Cl. 108-56.300.
- Betsinger, Thomas R.: *See—*
  - Smith, R. Paul; Betsinger, Thomas R.; and Smith, Kathy T., 4,660,469, Cl. 100-95.000.
- Betsuki, Katsutoshi: *See—*
  - Niwa, Shigeo; Kondo, Kazuo; and Betsuki, Katsutoshi, 4,685,919, Cl. 623-21.000.
- Betsuki, Kenji: *See—*
  - Aoyagi, Koshiro; Nishino, Tancharu; and Betsuki, Kenji, 4,685,319, Cl. 72-234.000.
- Bett, John A. S.: *See—*
  - Setzer, Herbert J.; Karavolis, Sam; and Bett, John A. S., 4,693,882, Cl. 423-652.000.
- Bettcher Industries, Inc.: *See—*
  - Bettcher, Louis A., 4,637,140, Cl. 30-276.000.
  - Scheflow, Oliver W.; Roblin, William J., III; Kirsch, Richard C.; and Wunder, William G., 4,685,364, Cl. 83-68.000.
- Bettcher, Louis A., to Bettcher Industries, Inc. Boning and trimming knife. 4,637,140, 1-20-87, Cl. 30-276.000.
- Bette, Willi: *See—*
  - Cirkel, Hans-Jurgen; and Bette, Willi, 4,635,267, Cl. 372-38.000.
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- Bettencourt, Darryl G.: *See—*
  - Bettencourt, Thomas S.; and Bettencourt, Darryl G., 4,662,162, Cl. 56-327.00R.
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- Bettenga, James L.: *See—*
  - Cohen, Mordehy; Bettenga, James L.; and Tjenstrom, Brian, 4,683,984, Cl. 184-6.200.
- Better Life International, Inc.: *See—*
  - Summers, John K., 4,696,315, Cl. 131-359.000.
- Betteridge, Peter R., to Shell Oil Company. Process for cell disruption. 4,642,289, 2-10-87, Cl. 435-101.000.
- Betterton, Joseph T.; and Glover, Alfred H., to Chrysler Motors Corporation. Composite fastening device. 4,643,026, 2-17-87, Cl. 73-431.000.
- Betterton, Joseph T.; and Glover, Alfred H., to Chrysler Motors Corporation. Shaft retainer. 4,678,362, 7-7-87, Cl. 403-373.000.
- Betterton, Joseph T.; and Glover, Alfred H., to Chrysler Motors Corporation. Liquid level sensing device. 4,685,332, 8-11-87, Cl. 73-309.000.
- Betterton, Joseph T.; Dykoski, Alan W.; Glover, Alfred H.; Lawless, Daniel F.; McKee, William D.; and Watson, Troy T., to Chrysler Motors Corporation. Fuel inlet assembly. 4,706,707, 11-17-87, Cl. 137-565.000.
- Betterton, Joseph T.: *See—*
  - Zeigler, Thornton W., Jr.; Romanczuk, Chris S.; Betterton, Joseph T.; and Glover, Alfred H., 4,686,952, Cl. 123-572.000.
- Bettger, Richard R., to Schlage Lock Company. Retrofit lever assembly for a door knob. 4,648,643, 3-10-87, Cl. 292-347.000.
- Betthauser, Joseph L.: *See—*
  - Wills, Harry D.; and Betthauser, Joseph L., 4,716,297, Cl. 250-551.000.
- Bettinger, Gunter: *See—*
  - Schaeffer, Norbert; Bettinger, Gunter; Goetz, Klaus; Pfefferkorn, Dietmar; Burkle, Ottmar; Schmidts, Kurt; Schneider, Pierre; Wagner, Werner; Wietholter, Dieter; Dietze, Herbert; and Andriessen, Wilhelmus, 4,709,288, Cl. 360-130.210.
- Bettini, Giuseppe, to Ing. C. Olivetti & C., S.p.A. Apparatus for rotating a magnetic disc. 4,672,486, 6-9-87, Cl. 360-97.000.
- Bettini, John E., to Illinois Tool Works Inc. Self-drilling, self-tapping fastener. 4,693,654, 9-15-87, Cl. 411-387.000.
- Bettis, Brian K. Boxing glove cover. 4,667,343, 5-26-87, Cl. 2-18.000.
- Betts, David R.; and Edmonds, Michael G., to Kentinental Engineering Limited. Foldable trolley. 4,690,417, 9-1-87, Cl. 280-42.000.
- Betts Industries, Inc.: *See—*
  - Pierson, Karl B.; Mooney, Thomas E.; and Jones, William G., 4,709,901, Cl. 251-58.000.
- Betts, James F., to Sparkle Wash, Inc. Method for cleaning hard surfaces. 4,683,008, 7-28-87, Cl. 134-27.000.
- Betts, Joseph E.; and Holub, Fred F., to General Electric Company. Flame-resistant hydrocarbon polymer compounds, and insulated electrical products thereof. 4,680,229, 7-14-87, Cl. 428-389.000.
- Betts, Kenneth H., to Construction Specialties Limited. Panel laying machine. 4,714,393, 12-22-87, Cl. 414-10.000.
- Betts, Malcolm C.: *See—*
  - Reid, David I.; Ellson, John C., and Betts, Malcolm C., 4,646,286, Cl. 370-16.000.
- Betts, Robert E.; Melvin, William S.; and Thorn, Lawrence B., to United States of America, Army. Injectable fluid flash suppressor. 4,649,702, 3-17-87, Cl. 60-253.000.
- Betts, Robert E.; and Arszman, Jerrold H., to United States of America, Army. Recoilless rocket launcher. 4,672,881, 6-16-87, Cl. 89-1.816.
- Betts, Robert E., to United States of America, Army. Impactor cap. 4,672,897, 6-16-87, Cl. 102-513.000.
- Betts, Robert E.: *See—*
  - Melvin, William S.; Betts, Robert E.; and Thorn, Lawrence B., 4,642,983, Cl. 60-219.000.
- Betts, William L., to Paradyne Corporation. Digital modem for multiple telephone circuits. 4,637,035, 1-13-87, Cl. 375-8.000.
- Betts, William L.; and Martinez, Kenneth, to Paradyne Corporation. Half-duplex modem without turnaround delay. 4,669,090, 5-26-87, Cl. 375-8.000.
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- Betts, William L.; Martinez, Kenneth; and Bremer, Gordon, to Paradyne Corporation. Distributed trellis encoder. 4,677,625, 6-30-87, Cl. 371-43.000.
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- Betts, William L.: *See—*
  - Zuranski, Edward S.; Scott, Robert E.; and Betts, William L., 4,639,934, Cl. 375-10.000.
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  - Feldman, Nancy A., 4,657,740, Cl. 422-13.000.
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  Sebille, Bernard; Beuzard, Yves; and Demarne, Henri, 4,694,015, Cl. 514-375.000.
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  Creed, Sherman H.; Thompson, Wesley G.; Mughannam, Adil A.; and Beverly, Robert G., 4,646,629, Cl. 99-468.000.
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  Dieperink, Willem; and Vruggink, Arend, 4,640,113, Cl. 72-21.00

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Beyer, Harold H.: *See—*
  Akhter, Lalarukh; Atkinson, Ronald E.; Wages, Dwight E.; a Beyer, Harold H., 4,678,606, Cl. 252-542.000.

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Beyer, James B.: *See—*
  Sokolov, Vladimir; and Beyer, James B., 4,675,911, Cl. 455-325.0

Beyer, Karl, to LN Industries SA. Elastic hinge for eyeglass 4,689,851, 9-1-87, Cl. 16-228.000.

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  Balzer, Wolf-Dieter; Bechtolsheimer, Hans-Heinrich; Beyer, Ka Heinz; Fikentscher, Rolf; Perner, Johannes; Widder, Rudi; a Wolf, Helmut, 4,693,848, Cl. 260-402.000.
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Beyer, Klaus D.; and Silvestri, Victor J. Planar void free isolat structure. 4,680,614, 7-14-87, Cl. 357-50.000.

Beyer, Otto: *See—*
  Kirst, Bertold; Beyer, Otto; and Lipp, Wolfgang, 4,693,168, 89-41.110.

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  Otto, Alfred R., 4,669,661, Cl. 239-132.100.

Beyer, Rudolf; Heerdt, Lutz-Peter; and Schemel, Roland, to Scha Maschinenbau GmbH. Tailstock for universal grinding machi 4,644,700, 2-24-87, Cl. 51-237.00T.

Beyer, Rudolf; Heerdt, Lutz-Peter; and Schemel, Roland, to Scha Maschinenbau GmbH. Grinding machine with facilities for storag spare work holders and tools. 4,675,976, 6-30-87, Cl. 29-568.000.

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Beyer, Rudolf: *See—*
  Klie, Jurgen; and Beyer, Rudolf, 4,690,038, Cl. 92-181.00R.

Beyerbach, Daniel M.; Scott, William L.; and Goczalk, Robert W., to Hughes Aircraft Company. Pulse alignment system. 4,686,458, 8-11-87, Cl. 324-83.00D.

Beyerle, Rudi: *See*—
  Zoller, Gerhard; Beyerle, Rudi; Just, Melitta; Martorana, Piero; Bohn, Helmut; and Nitz, Rolf-Eberhard, 4,666,902, Cl. 514-212.000.

Beyers, Billy W., Jr., to RCA Corporation. Television system scheduler with on-screen menu type programming prompting apparatus. 4,641,205, 2-3-87, Cl. 360-33.100.

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  Pitsch, Robert A.; Beyers, Billy W., Jr.; Moore, Larry G.; and Tults, Juri, 4,677,484, Cl. 358-155.000.

Beyersbergen van Henegouwen, Cornelis M.; van de Kerkhof, Hubertus F. W.; Koken, Karel G. M.; and Olierook, John C. J., to U.S. Philips Corporation. Cassette with a latching pivoted cover. 4,634,020, 1-6-87, Cl. 220-335.000.

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Beylin, Vladimir G.; and Goel, Om P., to Warner-Lambert Company. Process for the preparation of 2,3,4,5-tetrafluorobenzoyl acetates. 4,689,423, 8-25-87, Cl. 560-51.000.

Beyn, Edgar J. Alternation control system having manual current selection capability and voltage dependent cutoff circuit. 4,687,983, 8-18-87, Cl. 322-28.000.

Beynet, Pierre A.; and von Aschwege, J. Thomas, to Amoco Corporation. Multiterminators for riser pipes. 4,708,525, 11-24-87, Cl. 405-195.000.

Beyth, Werner W.: *See*—
  Sellman, Leonard R.; Embury, Janon F., Jr.; and Beyth, Werner W., 4,704,966, Cl. 102-334.000.

Bez, Eckhard: *See*—
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Bezama, Raschid J.; and Perry, Charles H., to International Business Machines Corporation. Gas-loaded pressure diaphragm. 4,684,339, 8-4-87, Cl. 425-389.000.

Bezborodov, Vladimir S.; Konovalov, Viktor A.; Ptashnikov, Jury L.; Astafiev, Vladimir M.; and Petrovich, Alexandr E. Liquid-crystal 4-n-pentylphenyl esters of 4'-(trans-4''-n-alkylcyclohex-2-enoyloxy)-benzoic acids. 4,683,079, 7-28-87, Cl. 252-299.670.

Bezek, Donald J. Microwave ice detector. 4,649,713, 3-17-87, Cl. 62-140.000.

Bezer, Christian; Olombel, Andre; and Viel, Georges, to Commissariat a l'Energie Atomique. Apparatus for fitting a radioactive source into a cylindrical recess. 4,634,873, 1-6-87, Cl. 250-497.100.

Bezier, Jean: *See*—
  Franzolini, Marc; Maria, Edmond; Vanderschaeghe, Alain; and Bezier, Jean, 4,665,601, Cl. 29-157.30C.

Beziers, Daniel, to Societe Nationale Industrielle et Aerospatiale. Apparatus for the polymerization and/or crosslinking of a resin used in the composition of a composite material part by means of ionizing radiation. 4,689,488, 8-25-87, Cl. 250-492.300.

Bezin, Michel. Safety stirrup for horse-riding. 4,680,921, 7-21-87, Cl. 54-49.000.

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  Baldenko, Dmitry F.; Bezlepkin, Nikolai P.; Vadetsky, Jury V.; Gusman, Moisei T.; Potapov, Jury F.; and Semenets, Valery I., 4,711,006, Cl. 29-156.40R.

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Bezon, Jacques. Automatic apparatus for the continuous cooking of individual food portions by boiling or frying. 4,685,386, 8-11-87, Cl. 99-404.000.

Bezos, Angel P.; and Fernandez, Emilio A., to Pulse Electronics, Inc. Vehicle marker light. 4,654,629, 3-31-87, Cl. 340-87.000.

Bezuglov, Vladimir V.; Bergelson, Lev D.; Lakin, Kapiton M.; Makarov, Vladimir A.; Kovalev, Sergei G.; and Freimanis, Yanis F., to Institut Organicheskogo Sinteza An Latir SSSR; Institute Biorganicheskoi Khimii An SSSR; and Moskovsky Meditsinsky Stomatologichesky Institut. 15(R+S)-fluoro-11,15-dideoxyprostaglandin E_1 derivatives. 4,665,214, 5-12-87, Cl. 560-121.000.

Bezwada, Rao S.; Shalaby, Shalaby W.; Newman, Hugh, Jr.; and Kafrawy, Adel, to Ethicon, Inc. Crystalline copolymers of p-dioxanone and lactide and surgical devices made therefrom. 4,643,191, 2-17-87, Cl. 128-335.500.

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Bezzegh, Denes; Magyar, Karoly; Kelemen, Jozsef; Zalai, Gabor; Mandi, Attila; and Egri, Janos, to EGYT Gyogyszervegyeszeti Gyar. Powder mixture having high propylene glycol content and process for the preparation thereof. 4,680,315, 7-14-87, Cl. 514-738.000.

BHA Group, Inc.: *See*—
  Brennecke, James H.; and Mace, Robert E., 4,671,812, Cl. 55-378.000.

Bhadriraju, Nataraj, to GTE Communication Systems Corporation. RAM memory overlay gate array circuit. 4,698,749, 10-6-87, Cl. 364-200.000.

Bhagat, Jayant K., to General Motors Corporation. Insulated gate-controlled thyristor having shorted anode. 4,636,830, 1-13-87, Cl. 357-38.000.

Bhagat, Jayant K.; and Howarth, David S., to General Motors Corporation. Gas sensor and method of fabricating same. 4,668,374, 5-26-87, Cl. 204-412.000.

Bhagavatula, Venkata A., to Corning Glass Works. Low dispersion, low-loss single-mode optical waveguide. 4,715,679, 12-29-87, Cl. 350-96.330.

Bhagwat, Shripad S.: *See*—
  Still, W. Clark; Hamann, Philip R.; and Bhagwat, Shripad S., 4,672,131, Cl. 549-268.000.

Bhakuni, Roop S.: *See*—
  Brown, Donald L.; Weissert, James T.; Bhakuni, Roop S.; and Rogowski, Gregory S., 4,654,253, Cl. 428-229.000.

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  Fang, Chang-Shui; Xi, Yao; Chen, Zhi-Xiong; Bhalla, Amar S.; and Cross, Leslie E., 4,648,991, Cl. 252-1.000.

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  O'Neal, Thomas D.; Bhalla, Prithvi R.; and Cross, Barrington, 4,643,755, Cl. 71-76.000.
  Whitehead, David L.; and Bhalla, Prithvi R., 4,699,646, Cl. 71-77.000.

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Bhardwaj, Mahesh C., to Ultran Laboratories, Inc. Temperature independent ultrasound transducer device. 4,703,656, 11-3-87, Cl. 73-644.000.

Bhargava, Vikram, to Hayes Microcomputer Products, Inc. Enclosed circuit board assembly. 4,716,499, 12-29-87, Cl. 361-395.000.

Bhasin, Anirudh K.: *See*—
  Smit, Francis J.; Horst, William E.; and Bhasin, Anirudh K., 4,713,086, Cl. 44-51.000.

Bhaskar, Eldurkar V.: *See*—
  Hackleman, David E.; Bearss, James G.; and Bhaskar, Eldurkar V., 4,695,853, Cl. 346-140.00R.

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  Carlson, Alden J.; and Bhaskar, Kasi S., 4,649,497, Cl. 364-491.000.

Bhat, Deepak G.; Shah, Dhirajlal C.; Kyle, John R.; and Woerner, Paul F., to GTE Valeron Corporation. Coated silicon nitride cutting tool and process for making. 4,640,693, 2-3-87, Cl. 51-295.000.

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Bhat, Dinesh M., to James Rivers Corporation. Solvent removal using a condensable heat transfer vapor. 4,654,980, 4-7-87, Cl. 34-12.000.

Bhatia, Harsaran S.; Bhatia, Satyapal S.; Riseman, Jacob; and Valsamakis, Emmanuel A., to International Business Machines Corporation. Structure for contacting a narrow width PN junction region. 4,712,125, 12-8-87, Cl. 357-59.000.

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Bhatia, Kishan; and Garcia, John G., Jr., to NL Industries, Inc. Process for removal of mercaptans from gas streams. 4,690,805, 9-1-87, Cl. 423-224.000.

Bhatia, Madhukar; and Resnick, Brian J., to Cincinnati Milacron Inc. Method and apparatus for oscillating a tool carried by a manipulator. 4,635,206, 1-6-87, Cl. 364-474.000.

Bhatia, Rajiv; and Kneuer, Joseph G., to American Telephone and Telegraph Company; Bell Telephone Laboratories, Incorporated; and AT&T Information Systems Inc. Time slot polling arrangement for multiple stage time division switch. 4,672,604, 6-9-87, Cl. 370-58.000.

Bhatia, Rajkumar P.: *See*—
  Su, Kai C.; Stebbins, Leslie F.; and Bhatia, Rajkumar P., 4,670,060, Cl. 252-174.170.

Bhatia, Ram N.: *See*—
  Oswald, Alexis A.; and Bhatia, Ram N., 4,711,968, Cl. 568-454.000.

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  Bhatia, Harsaran S.; Bhatia, Satyapal S.; Riseman, Jacob; and Valsamakis, Emmanuel A., 4,712,125, Cl. 357-59.000.

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  Stewart, Alexander; Furness, Duncan S.; and Bhatia, Sham P., 4,638,384, Cl. 360-77.000.

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  Patel, Nagajibhai T.; Kulkarni, Subrao S.; and Bhatt, Garish I., 4,699,628, Cl. 8-641.000.

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  Ramachandra, Govardhan; and Bhatt, Kiran M., 4,679,310, Cl. 29-577.00R.

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Bhattacharyya, Bhupati R.; and Dalsin, Philip D., to Nalco Chemical Company. High molecular weight DADMAC polymers by inverse emulsion technology. 4,713,431, 12-15-87, Cl. 526-207.000.

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Bhavsar, Dilip K., to Digital Equipment Corporation. Scannable flip-flop. 4,669,061, 5-26-87, Cl. 365-154.000.

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Nemeth, Attila; Dolozselek, Gyula; Mikics, Laszlo; Molnar, Bela; Sallai, Mihaly; Liska, Sandor; and Speck, Gyula, 4,670,901, Cl. 379-292.000.

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Strinzel, Horst; and Seidl, Alfred, 4,658,665, Cl. 74-467.000.

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Ress, Piroska; Kiss, Istvan; Miltenyi, Geza; Strahl, Antal; Petro, Imre; Farkas, Jozsef; Biacs, Peter; Kozma, Istvanne; and Debreczeny, Istvan, 4,670,274, Cl. 426-240.000.

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Biagini, Guido, to Sundstrand Corporation. On-board refrigerant charging system. 4,700,549, 10-20-87, Cl. 62-149.000.

Biagini, Livio, to B-Art S.a.s. Lubrication system with oil recovery for a two-stroke engine piston with pump-sump for scavenging. 4,672,931, 6-16-87, Cl. 123-193.00P.

Biale, John, to Union Oil Company of California. Composition for improved adhesion of vinylidene chloride latex to ionomer films. 4,652,603, 3-24-87, Cl. 524-547.000.

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Bialek, Edward J., to Westinghouse Electric Corp. Static switches firing system. 4,644,243, 2-17-87, Cl. 318-807.000.

Bialek, Edward J.; and Anticich, Leslie B., to Westinghouse Electric Corp. Current source inverter motor drive adapted for full current regenerative mode operation. 4,683,412, 7-28-87, Cl. 318-798.000.

Bialkowski, Guenter, to Siemens Aktiengesellschaft. Switch contact for a vacuum switching tube. 4,675,482, 6-23-87, Cl. 200-144.00B.

Bially, Theodore, to Lifeline Systems, Inc. Alarm system tester. 4,656,319, 4-7-87, Cl. 379-29.000.

Bialy, Jan: *See—*

Kosinska, Wanda; Grzelak, Dorota; Penczek, Irena; and Bialy, Jan, 4,687,799, Cl. 524-100.000.

Bialy, Louis; and Menet, Frederick P., to Otis Elevator Company. Hydraulic buffer for elevators. 4,635,907, 1-13-87, Cl. 267-8.00R.

Bianca, Joseph D.; and Anderson, David K., to Combustion Engineering, Inc. Low excess air tangential firing system. 4,715,301, 12-29-87, Cl. 110-347.000.

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Cecchi, Roberto; Boigegrain, Robert; Bianchetti, Alberto; Poggesi, Elena; and Croci, Tiziano, 4,707,497, Cl. 514-647.000.

Nisato, Dino; Crisafulli, Emilio; Bianchetti, Alberto; and Carminati, Paolo, 4,691,019, Cl. 546-330.000.

Bianchi, Camillo, to SILCA S.p.A. Clamp for lock key duplicating machine. 4,709,511, 12-1-87, Cl. 51-216.00R.

Bianchi, Claude; Fournier, Ives; and Jacquier, Paul, to Framatome. Process for compressing by hammering a steam generator tube set. 4,706,356, 11-17-87, Cl. 29-157.400.

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Bianchi, Edward A.: *See—*

Adlon, Daniel T.; Bianchi, Edward A.; College, Neil F.; and Reuss, George D., 4,650,391, Cl. 414-222.000.

Bianchi, Francois; Busa, Denis; and Fourrey, Francois, to Cycles Peugeot. Device for controlling the step-by-step displacement of an element, and in particular a backrest of a vehicle seat structure. 4,666,210, 5-19-87, Cl. 297-362.000.

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Bianchi, Giancarlo E.: *See—*

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Bianchi, Giorgio: *See—*

Nardi, Dante; Leonardi, Amedeo; and Bianchi, Giorgio, 4,634,712, Cl. 514-356.000.

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Bianchi, Giuseppe: *See—*

Occhini, Elio; and Bianchi, Giuseppe, 4,690,497, Cl. 350-96.230.

Bianchi International: *See—*

Bianchi, John E.; Gregory, Wayne B.; and Nichols, Richard D. E., 4,645,103, Cl. 224-243.000.

Bianchi, John E., 4,667,374, Cl. 24-3.00J.

Bianchi, John E.; Gregory, Wayne B.; and Nichols, Richard D. E., to Bianchi International. Fabric holster with universally adjustable strap. 4,645,103, 2-24-87, Cl. 224-243.000.

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Bianchi, John E. Universal clip. 4,690,315, 9-1-87, Cl. 224-252.000.

Bianchi, Julio J., to General Electric Company. Electric meter having at least two display registers selected according to a parameter. 4,659,985, 4-21-87, Cl. 324-116.000.

Bianchi, Mario, deceased (by de Carli, Elsa, Silvana Bianchi and Giovanni Bianchi, Legal Representatives); and Barzaghi, Fernando, to Roussel UCLAF. Therapeutical compositions containing derivatives of, acrylic acid having an oxygen-containing heterocycle, therapeutic treatment therewith and new compounds. 4,694,019, 9-15-87, Cl. 514-461.000.

Bianchi, Valerio; and Conticelli, Carlo, to Weber S.p.A. System for automatically controlling the idling speed of an internal combustion engine. 4,709,674, 12-1-87, Cl. 123-339.000.

Bianchi, Vittorio; Hensing, Johannes M. M.; and Munnig Schmidt, Robert H., to U.S. Philips Corporation. Motor-compressor unit. 4,700,090, 10-13-87, Cl. 310-36.000.

Bianchini, William L.; and Duclos, Gary F., to Highland Import Corporation. Shoe having a rigid back part and flexible forepart. 4,704,808, 11-10-87, Cl. 36-102.000.

Bianco, Carlo; Colleluori, Roberto; and De Sanctis, Egidio, to Fameccanica S.p.A. Apparatus for the dry defibration of sheets of fibrous cellulose material and like materials. 4,673,136, 6-16-87, Cl. 241-280.000.

Bianco, Eric L. Key deburring and polishing assembly. 4,641,463, 2-10-87, Cl. 51-7.000.

Bianco, Frank J.; and Jimenez, Oscar. Apparatus for and method of repelling pests such as fleas and ticks. 4,669,424, 6-2-87, Cl. 119-156.000.

Bianco, Gerry, to Motorola, Inc. Apparatus and method for calibrating a sensor. 4,669,052, 5-26-87, Cl. 364-571.000.

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Lippard, Stephen J.; and Bianconi, Patricia A., 4,683,315, Cl. 556-12.000.

Biard, Dominique: *See—*

Jasserand, Daniel; Christen, Marie-Odile; Biard, Dominique; and Yavordios, Dimitri, 4,672,063, Cl. 514-252.000.

Biard, Jacques, to Fenzy S.A. Coupling connectors for respirator masks. 4,693,242, 9-15-87, Cl. 128-204.260.

Biard, James R., to Honeywell Inc. Utilizing a depletion mode FET operating in the triode region and a depletion mode FET operating in the saturation region. 4,661,726, 4-28-87, Cl. 307-450.000.

Bias Forschungs- und Entwicklungslabor fur Angewandte Strahltechnik: *See—*

Juptner, Werner P.-O.; Rothe, Rudiger G. R. V.; and Sepold, Gerd K.-H., 4,667,080, Cl. 219-121.0LQ.

Biasini, Americole R., to Roy J. Maier Products. Folder for carrying and displaying sheets of material. 4,703,952, 11-3-87, Cl. 281-45.000.

Biass, David, to Cibeles International Inc. Gripping assembly for elongated objects such as cables or bars. 4,643,609, 2-17-87, Cl. 403-369.000.

Bibbee, Jeffrey N.: *See—*

Rhee, Chong-Kon; McKibben, David M.; and Bibbee, Jeffrey N., 4,637,252, Cl. 73-150.00A.

Bibber, John W., to Sanchem, Inc. Corrosion resistant aluminum coating. 4,711,667, 12-8-87, Cl. 106-14.210.

- Bibbo, Kenneth L.; and Podsiad, Paul, to Stewart Systems, Inc. Pattern former/loader system for bakery products. 4,699,559, 10-13-87, Cl. 414-752.000.
- Bibby, Noel; and Owens, John, to Noel Bibby Limited. Measuring water vapor transmission through materials. 4,663,969, 5-12-87, Cl. 73-159.000.
- Bibby, Thomas F. A., Jr.: *See—*
  - Blumenfeld, Martin A.; and Bibby, Thomas F. A., Jr., 4,666,553, Cl. 156-643.000.
- Bibeau, Robert E., to Appropriate Technology Corporation. Edge seal for fabric covers. 4,649,981, 3-17-87, Cl. 160-120.000.
- Biber, Joseph N.: *See—*
  - Hansen, Gerald D.; and Biber, Joseph N., 4,642,221, Cl. 422-16.000.
- Biber, Klaus; and Unold, Gerhard, to Carl-Zeiss-Stiftung. Light trap for surgical operation microscopes. 4,715,704, 12-29-87, Cl. 351-207.000.
- Biber, Wolfgang, to Daimler-Benz Aktiengesellschaft. Control apparatus for vehicle air conditioning system. 4,651,812, 3-24-87, Cl. 165-25.000.
- Bibl, Andreas; Day, Gene F.; and Higginson, John A., to Precision Image Corporation. Self-cleaning electrostatic color printer. 4,706,605, 11-17-87, Cl. 118-631.000.
- Bible, Virginia L. Protective covering or bib. 4,663,779, 5-12-87, Cl. 2-49.00R.
- Bibollet, Bernard, to Fonderie Musil. Propeller with removable and adjustable blades. 4,692,097, 9-8-87, Cl. 416-207.000.
- Biby, Richard L. Antenna apparatus and method for curtailing sky waves. 4,670,760, 6-2-87, Cl. 343-832.000.
- BICC Public Limited Company: *See—*
  - Allard, Vincent L., 4,670,707, Cl. 324-51.000.
  - Allard, Vincent L.; and Gallard, Henry, 4,708,298, Cl. 242-25.00A.
  - Allard, Vincent L., 4,714,209, Cl. 242-25.00R.
  - Bhattacharya, Sabyasachi; and Carroll, Clive R. E., 4,646,442, Cl. 33-141.00R.
  - Cane, Michael R., 4,693,540, Cl. 439-198.000.
  - Collier, John C.; and Davies, Keith, 4,715,826, Cl. 439-438.000.
  - Corne, Robert W.; and Hagger, John M. R., 4,709,982, Cl. 350-96.230.
  - Daly, Michael J.; and Parr, David T., 4,685,765, Cl. 350-96.210.
  - Ditchfield, Neville J., 4,667,824, Cl. 206-408.000.
  - Driskel, Stephen P., 4,676,591, Cl. 350-96.230.
  - Driskel, Stephen P., 4,679,897, Cl. 350-96.230.
  - Horne, David; and Parker, Laurence, 4,690,286, Cl. 211-41.000.
  - Kaczmarski, Edward Z.; and Grigsby, Richard, 4,676,028, Cl. 51-105.00R.
  - Plessner, Karl W.; and Poole, Michael J., 4,709,983, Cl. 350-96.230.
  - Saha, Sanjiv, 4,696,534, Cl. 350-96.150.
  - Saha, Sanjiv, 4,696,535, Cl. 350-96.150.
  - Seddon, Alan E.; and Doughty, John, 4,679,672, Cl. 191-41.000.
  - Taylor, John E.; and Keene, Ian W., 4,690,499, Cl. 350-96.230.
  - Taylor, John E.; and Keene, Ian W., 4,699,461, Cl. 350-96.230.
  - Williams, Ronald D., 4,714,438, Cl. 439-610.000.
- Bicc-Vero Electronics, Inc.: *See—*
  - Smith, Kenneth R., 4,638,405, Cl. 361-399.000.
- Biche, Michael R.: *See—*
  - Koch, George R.; Krolak, Michael; and Biche, Michael R., 4,698,775, Cl. 364-478.000.
  - Rough, J. Kirkwood H.; Krolak, Michael; and Biche, Michael R., 4,654,573, Cl. 320-2.000.
- Bichon, Daniel, to Battelle Memorial Institute. Biodegradable polypeptide and its use for the gradual release of drugs. 4,675,381, 6-23-87, Cl. 530-345.000.
- Bichon, Serge. Tying device for the mouth piece of a wind instrument. 4,669,352, 6-2-87, Cl. 84-383.00R.
- Bick, David E., to Dowty Hydraulic Units Limited. Retarders suitable for wagon speed control. 4,650,038, 3-17-87, Cl. 188-62.000.
- Bickar, Ray: *See—*
  - Norcia, John A.; Bickar, Ray; and Wheatley, William M., 4,640,323, Cl. 141-18.000.
- Bickel, Hans: *See—*
  - Scartazzini, Riccardo; and Bickel, Hans, 4,668,781, Cl. 540-215.000.
- Bickel, Martin: *See—*
  - Englert, Heinrich C.; Lang, Hans-Jochen; Mania, Dieter; and Bickel, Martin, 4,661,636, Cl. 568-31.000.
- Bickelhaupt, Roger; and Rold, Michael D., to American Hospital Supply Corporation. Dispenser for an elongated flexible member. 4,713,059, 12-15-87, Cl. 604-171.000.
- Bicker, Richard; and Seipke, Gerhard, to Hoechst Aktiengesellschaft. Process for the cleavage of peptides and proteins at the methionyl bond using cyanogen chloride. 4,644,057, 2-17-87, Cl. 530-409.000.
- Bickes, Robert W., Jr.; and Schwarz, Alfred C., to United States of America, Energy. Semiconductor bridge (SCB) igniter. 4,708,060, 11-24-87, Cl. 102-202.700.
- Bickford, Cleo M., to Anderson, Greenwood & Company. Pressure relief device for vessels. 4,674,530, 6-23-87, Cl. 137-469.000.
- Bickle, Wolfgang; Braus, Jurgen; and Baureis, Hans-Paul, to Kolbenschmidt Aktiengesellschaft. Material for sliding surface bearings. 4,666,787, 5-19-87, Cl. 428-550.000.
- Bickle, Wolfgang; and Pfestorf, Harald, to Kolbenschmidt Aktiengesellschaft. Material for use in the manufacture of composite bearings for crankshafts. 4,666,792, 5-19-87, Cl. 428-626.000.
- Bickle, Wolfgang: *See—*
  - Creydt, Martin; Bickle, Wolfgang; and Pfestorf, Harald, 4,679,681, Cl. 192-107.00M.
- Bickley, Robert H.; and Culver, Robin D., to Motorola, Inc. Adaptively stabilized RF amplifier. 4,673,886, 6-16-87, Cl. 330-298.000.
- Bicknell, John; and O'Brien, Stephen, to Bonar Bray Limited. Motor monitor signal analysis system. 4,678,990, 7-7-87, Cl. 324-158.0MG.
- Bicknell, John, to Bonar Bray Limited. Motor monitor synchronization system. 4,716,351, 12-29-87, Cl. 318-600.000.
- Bicknell, William H.: *See—*
  - Alley, Robert P.; Bicknell, William H.; and Routh, Kevin C., 4,663,569, Cl. 315-175.000.
  - Alley, Robert P.; and Bicknell, William H., 4,701,680, Cl. 315-287.000.
  - Steigerwald, Robert L.; Routh, Kevin C.; Claydon, Glenn S.; and Bicknell, William H., 4,694,384, Cl. 363-17.000.
- Bicoll, Norton J. Anesthetic device. 4,681,101, 7-21-87, Cl. 128-303.00R.
- Bicron Electronics Company: *See—*
  - Shand, J. Richard; and LaChance, Raymond H., 4,639,704, Cl. 335-255.000.
- Bidard, Louis: *See—*
  - Berte , Marc; Bidard, Louis; and Lechopier, Serge, 4,656,707, Cl. 29-25.350.
- Bidaud, Philippe: *See—*
  - Guinot, Jean-Claude; Lallemand, Jean-Paul; Murguet, Denis; Zeghloul, Said; and Bidaud, Philinpe, 4,653,793, Cl. 294-86.400.
- Bidco Inc.: *See—*
  - Howard, Jonathan M., 4,703,476, Cl. 370-76.000.
- Biddison, William: *See—*
  - Nelson, David; Biddison, William; Rubin, Laurence; Greene, Warner; Leonard, Warren; and Yarchoan, Robert, 4,707,443, Cl. 435-7.000.
- Biddle, Deloss J.: *See—*
  - McAbee, Mac P.; and Biddle, Deloss J., 4,710,598, Cl. 200-21.000.
  - McAbee, MacPatrick; and Biddle, Deloss J., 4,658,103, Cl. 200-19.0DC.
- Bidell, Frederick W.; Kluever, Harold C.; and Reed, Roger R., to United States of America, Navy. Synchronization of long codes of bounded time uncertainty. 4,636,583, 1-13-87, Cl. 178-22.170.
- Bidwell, Christopher A.: *See—*
  - Chrisman, Charles L.; Bidwell, Christopher A.; and Libey, George S., 4,697,546, Cl. 119-3.000.
- Bidwell, Robert E. Torque limiting fastener. 4,687,392, 8-18-87, Cl. 411-6.000.
- Bieber, Gerold: *See—*
  - Holtermann, Otto; Torbusch, Klaus; and Bieber, Gerold, 4,685,548, Cl. 192-0.080.
  - Rogner, Horst; Schacherer, Roland; and Bieber, Gerold, 4,633,987, Cl. 192-0.092.
- Bieber, Oswald; Haas, Erich; Henglein, Rudolf; and Richter, Bernd, to Kraftwerk Union Aktiengesellschaft. Remotely operable tool for setting plugs into heat exchanger tubes. 4,693,277, 9-15-87, Cl. 138-89.000.
- Biebuyck, Lawrence F., to Butler Manufacturing Company. Curtain wall valve system. 4,644,717, 2-24-87, Cl. 52-209.000.
- Biederbeck, Uwe: *See—*
  - Bubam, Hans-Georg; Heider, Lothar; Biederbeck, Uwe; and Stanger, Bernd, 4,661,557, Cl. 524-770.000.
- Biederman, David L.: *See—*
  - Roberts, Auston K.; Trainor, William E.; Nakamura, Steve; Duffin, Leon C.; and Biederman, David L., 4,686,094, Cl. 423-322.000.
- Biedermann, Adam, to Joh. Winklhofer & Sohne. Chain tensioner. 4,713,043, 12-15-87, Cl. 474-111.000.
- Biedermann, Ernst: *See—*
  - Rauh, Hans-Jurgen; Findeis, Gunter; Biedermann, Ernst; and Knor, Bernhard, 4,704,026, Cl. 355-38.000.
  - Zahn, Wolfgang; Findeis, Gunter; and Biedermann, Ernst, 4,647,187, Cl. 355-21.000.
- Biedermann, Friedrich: *See—*
  - Hoffmann, Richard; and Biedermann, Friedrich, 4,651,906, Cl. 222-504.000.
- Biedermann, Jean-Michel: *See—*
  - Le Page, Jean-Francois; Billon, Alain; Morel, Frederic; Renard, Pierre; Biedermann, Jean-Michel; Laborde, Michel; and Bousquet, Jacques, 4,715,946, Cl. 208-45.000.
- Biedermann, Jurgen; Borbe, Harald; Graf, Erich; Hilboll, Gerd; and Prop, Gerrit, to A. Nattermann & Cie GmbH. Process for reducing reflex tachycardia in the treatment of hypertension employing a combination of a diazacyclopentene derivative and a pyridazinone derivative. 4,661,487, 4-28-87, Cl. 514-252.000.
- Biedermann, Wolfgang: *See—*
  - Darsow, Gerhard; and Biedermann, Wolfgang, 4,684,720, Cl. 536-124.000.
- Bieffe S.p.A.: *See—*
  - Baldini, Luciano; and Siccardi, Alberto, 4,656,813, Cl. 53-410.000.
  - Baldini, Luciano; and Siccardi, Alberto, 4,685,917, Cl. 604-411.000.
- Biefnot, Henri: *See—*
  - Boonants, Marius; and Biefnot, Henri, 4,674,140, Cl. 5-68.000.
- Bieganski, Zdzislaw, to Abeco Limited. Circuit board assembly. 4,648,773, 3-10-87, Cl. 414-411.000.
- Bieger, Walter I.: *See—*
  - Niebling, Tracy J.; and Bieger, Walter I., 4,684,021, Cl. 206-334.000.
- Biegon, Robert J.; Kincaid, John W., Jr.; and Visser, Leonard J., to Cooper Industries, Inc. Method and apparatus for testing shielded cable assemblies. 4,647,844, 3-3-87, Cl. 324-57.00R.
- Biehl, Gerd: *See—*
  - Schelhas, Klaus-Dieter; and Biehl, Gerd, 4,715,859, Cl. 623-22.000.

Biehler, Klaus: *See—*
Nebe, Wolfgang; Reichel, Jutta; Biehler, Klaus; Lucht, Hartmut; and Drommert, Heinz, 4,691,110, Cl. 250-458.100.
Biek, Paul A., to Dresser Industries, Inc. Right angle drill. 4,650,377, 3-17-87, Cl. 408-130.000.
Bielagus, Joseph B., to Beloit Corporation. Disk screen or like shaft assemblies and method of making the same. 4,653,648, 3-31-87, Cl. 209-672.000.
Bielagus, Joseph B.: *See—*
Gobel, Richard; and Bielagus, Joseph B., 4,703,860, Cl. 209-672.000.
Bielawski, Billy J., Sr.: *See—*
Riera, John F.; Pavelec, John J.; and Bielawski, Billy J., Sr., 4,653,368, Cl. 83-319.000.
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Fritsch, Karl-Herbert; and Bier, Peter, 4,699,745, Cl. 264-143.000.
Bierbaum, Joe; Henze, Siegfried; Mussig, Karl; and Ziegler, Hans, to Texpa Arbter Machinenbau GmbH. Process for the manufacture of fitted elastic bedsheets or similar seat covers. 4,682,555, 7-28-87, Cl. 112-262.100.
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Bierich, Eduard: *See—*
Knothe, Erich; Melcher, Franz-Josef; Ober, Jurgen; Berg, Chr toph; Dardat, Klaus; Bierich, Eduard; and Maaz, Gunth 4,656,599, Cl. 364-567.000.
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Bierkamp, James A.; Hall, Scott D.; and Smith, Wade W., to Ameri Standard Inc. Assembly for retrofitting two air handling units to installation originally meant for a single unit. 4,683,942, 8-4-87, 165-53.000.
Bierman, Albert. Electric roach trap. 4,709,502, 12-1-87, Cl. 43-112.0
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Polinsky, Samuel M.; Bierman, Larry W.; and Hempel, David 4,642,181, Cl. 209-167.000.
Bierman, Steven F. Catheterization system. 4,711,636, 12-8-87, 604-180.000.
Biermann, Eberhard; Rilling, Heinz; and Romann, Peter, to Ro Bosch GmbH. Electric potentiometer. 4,649,367, 3-10-87, 338-184.000.
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Biermann, Kurt; and Steppat, Gerhard, to Durkoppwerke Gm Universal sewing foot. 4,646,668, 3-3-87, Cl. 112-320.000.
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Biermeier, Johann; Olbrich, Otto; and Dierkes, Albert, to Sie Aktiengesellschaft. Magnetic disk memory having a disk pack se at both sides in resiliently-designed housing. 4,703,374, 10-27-87, 360-98.000.
Biermeier, Johann; and Brand, Wilhelm, to Siemens Aktiengesellsc Housing for a magnetic disk memory having a disk pack se opposite sides of the disk pack. 4,714,972, 12-22-87, Cl. 360-97.0
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Biersteker, Mel, to McCulloch Corporation. Vibration mount chainsaw. 4,670,985, 6-9-87, Cl. 30-381.000.
Bierwirth, Adolf P., to Rheinmetall GmbH. Protective cover by ing flap in a breech aperture. 4,674,215, 6-23-87, Cl. 42-23.000.
Bies, David A. Sound reducing means. 4,660,448, 4-28-87, Cl. 83-13
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Weber, Robert; Bieselt, Roland; Forner, Siegfried; and Mech Helmut, 4,689,863, Cl. 29-33 [illegible].
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  - Olbrich, Juergen; Biethan, Uwe; and Sorge, Gernold, 4,695,613, Cl. 525-533.000.
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- Bietz, Bernard; van der Vliet, Jacques; and Cartant, Michel, to Commissariat a L'energie Atomique. Process for the positioning of a point belonging to the cutting zone of a tool and apparatus for performing this process in a digitally controlled lathe. 4,656,896, 4-14-87, Cl. 82-1.00C.
- Bietz, Karl-Heinz: *See—*
  - Rammler, Roland; Weiss, Hans J.; Dreher, Ingo; Schmalfeld, Jorg; and Bietz, Karl-Heinz, 4,659,456, Cl. 208-407.000.
- Bifa Corporation: *See—*
  - Fabbro, Miguel, 4,694,816, Cl. 126-41.00R.
- Biffar, Werner; Hofstadt, Otto; Kartte, Klaus; Thomas, Erwin; and Weiss, Franz-Josef, to BASF Aktiengesellschaft. Regeneration of inactive and poisoned platinum catalysts. 4,659,683, 4-21-87, Cl. 502-24.000.
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  - Hoelderich, Wolfgang; Biffar, Werner; Irgang, Matthias; Mross, Wolf D.; Kroener, Michael; and Ambach, Eberhard, 4,711,930, Cl. 502-209.000.
- Biffin, Martin: *See—*
  - Syred, Nicholas; and Biffin, Martin, 4,634,456, Cl. 55-52.000.
- Bifulco, Eduardo. Chess puzzle board and pieces. 4,699,385, 10-13-87, Cl. 273-260.000.
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  - Chan, Jacky, 4,639,144, Cl. 368-276.000.
- Bigall, Klaus-Dieter; and Irmer, Heimbert, to Siemens Aktiengesellschaft. Electric resistor consisting of at least two monolithically combined mis-field effect transistors for integrated semiconductor circuits. 4,667,216, 5-19-87, Cl. 357-41.000.
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  - Webb, Bryant F.; and Bigelow, Donald O., 4,656,938, Cl. 100-189.000.
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  - Bigelow, Floyd E., Jr.; Bigelow, Floyd E., III; and Bigelow, William H., 4,637,179, Cl. 52-79.500.
- Bigelow, Louis K.; Grappendorf, Richard H.; and Meskin, Alexander R., to Eastman Christensen Co. Earth boring bit for soft to hard formations. 4,673,044, 6-16-87, Cl. 175-329.000.
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  - Rahman, Zafar, 4,655,784, Cl. 8-148.000.
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  - Bigelow, Floyd E., Jr.; Bigelow, Floyd E., III; and Bigelow, William H., 4,637,179, Cl. 52-79.500.
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- Bigger, Thomas J.: *See—*
  - Wachinski, Clarence A.; and Bigger, Thomas J., 4,637,528, Cl. 222-182.000.
- Biggs, Bradley M.; Brown, Jimmy L.; and Kerns, Thomas M., to Motorola, Inc. Timing apparatus for a fuse. 4,633,779, 1-6-87, Cl. 102-215.000.
- Biggs, Kenneth L.; and Miller, C. Fredrick. Method and means for threading wire bonding machines. 4,645,118, 2-24-87, Cl. 228-170.000.
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- Bigham, Davis L., to Heil-Quaker Corporation. Condensate overflow control for furnace. 4,682,579, 7-28-87, Cl. 126-110.00R.
- Bigham, Eric C.: *See—*
  - Nichol, Charles A.; Reinhard, John F., Jr.; Smith, Gary K.; and Bigham, Eric C., 4,665,182, Cl. 544-258.000.
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- Bigler, Lenard L.: *See—*
  - Gresham, Tony R., 4,633,955, Cl. 171-1.000.
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- Bigo, Jean. Light push chairs of the foldable type. 4,640,519, 2-3-87, Cl. 280-42.000.
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- Bigott, Jeffry J. Telescopic roller. 4,640,404, 2-3-87, Cl. 193-35.0TE.
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  - Goncalves, Antonin L.; and Bigotte, Francois, 4,662,530, Cl. 215-330.000.
- Bigret, Roland, to Alsthom. Device for measuring the tangential force applied to a toothed rotor. 4,662,230, 5-5-87, Cl. 73-862.540.
- Bihari, Ferenc: *See—*
  - Dombay, Zsolt; Grega nee Toth, Erzsebet; Nagy, Jozsef; Pavliscsak, Csaba; Tasi, Laszlo; Toth, Andras; Toth, Oszkar; Vitanyi, Judit; Bihari, Ferenc; Bohus, Peter; Inczedy, Peter; Magyari, Istvan; Kertesz nee Szabo, Marianna; Wohl, Laszlo; and Ferenczi, Attila, 4,670,429, Cl. 514-187.000.
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  - Pungor, Erno; Toth, Klara; Pal, Ferenc; Eros, Bela; Nagy, Jozsef; and Bihatsi, Laszlo, 4,634,982, Cl. 324-448.000.
- Bihl, Jean-Marie. Process and apparatus for manufacturing cardboard tubes with incorporated closure. 4,636,188, 1-13-87, Cl. 493-157.000.
- Bihl, Paul R.: *See—*
  - Ferdows, Houshang; Krug, Martin; and Bihl, Paul R., 4,679,616, Cl. 165-43.000.
- Bihler, Otto. Small-sized contact pin package. 4,684,203, 8-4-87, Cl. 439-751.000.
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- Bihlmaier, John A. Pneumatic-hydraulic actuator system. 4,647,004, 3-3-87, Cl. 251-28.000.
- Bihn, Raymond J., to Champion Spark Plug Company. Spray gun nozzle assembly retainer clip and spray gun nozzle assembly. 4,712,739, 12-15-87, Cl. 239-290.000.
- Bihn, Robert F.: *See—*
  - Lindquist, Craig B.; and Bihn, Robert F., 4,708,667, Cl. 439-788.000.
- Bijur Lubricating Corp.: *See—*
  - Edwards, Leonard, 4,664,567, Cl. 408-59.000.
  - Gabriel, Paul K.; Potvin, David E.; and Potvin, James R., 4,674,030, Cl. 364-184.000.
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- Bilak, Vasil, to General Motors Corporation. Plug. 4,672,993, 6-16-87, Cl. 137-322.000.
- Bilanin, Alan J. Vehicle drag reducer. 4,682,808, 7-28-87, Cl. 296-1.00S.
- Bilas, Michael. Wheel lift. 4,711,464, 12-8-87, Cl. 280-704.000.
- Bilbate Limited: *See—*
  - Bates, William T. D., 4,640,297, Cl. 128-765.000.
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- Bilco Company, The: *See—*
  - Lyons, Robert J., Sr., 4,688,768, Cl. 256-59.000.
- Bilco Tools Inc.: *See—*
  - Coyle, William E., Sr.; and Penisson, Dennis J., 4,712,284, Cl. 29-240.000.
- Bilek, Andreas; and Wunsche, Peter, to AVL Gesellschaft fur Verbrennungskraftmaschinen und Messtechnik m.b.H., Prof.Dr.Dr.h.c. Hans List. One-cylinder, two-stroke internal combustion engine with crankcase scavenging. 4,694,786, 9-22-87, Cl. 123-73.0AD.
- Bilek, Andrew G.: *See—*
  - Foster, Joseph C., Jr.; and Bilek, Andrew G., 4,711,177, Cl. 102-204.000.
- Bilek, Petr: *See—*
  - Cerny, Antonin; Krepelka, Jiri; Rezabek, Karel; Fruhaufova, Maria; Pesak, Milan; Sevcik, Bohumil; Kral, Josef; Borovicka, Antonin; Bilek, Petr; Picmausova, Dagmar; Stuchlik, Josef; Picha, Josef; and Strakova, Jana, 4,692,452, Cl. 514-288.000.
- Bilen, Roger J.: *See—*
  - Goodridge, Paul A.; Bilen, Roger J.; Kaveh, Farrokh; and Lin, David C. K., 4,670,034, Cl. 65-4.400.
- Biletch, Harry A.; Di Manno, Richard A.; and Gorka, Robert J., to Polysar Financial Services S.A. Transparent impact polymers. 4,680,337, 7-14-87, Cl. 525-53.000.

Biletsky, Semen M.: *See—*
  Paton, Boris E.; Medovar, Boris I.; Biletsky, Semen M.; Saenko, Vladimir Y.; Us, Vasiliy I.; Krendeleva, Alisa I.; Barvinko, Jury P.; Medovar, Lev B.; Pivovarsky, Nikolai B.; and Astafiev, Nikolai A., 4,711,387, Cl. 228-143.000.

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  Butt, Heinz G.; and Vogt, Michael, 4,666,343, Cl. 405-217.000.

Bilge, Umit; Scarpelli, August F., Schwartz, Ronald E.; and Ross, John J., to General Motors Corporation. Ultrasonic method and apparatus for spot weld control. 4,711,984, 12-8-87, Cl. 219-110.000.

Bilgic, A. Haluk: *See—*
  Parker, Wesley A.; Dewitz, Thomas S.; Hinds, George P., Jr.; Gwyn, John E.; Bilgic, A. Haluk; and Hardesty, Donald E., 4,692,311, Cl. 422-144.000.

Bilhou, Jean L.; and Goodall, Brian L., to Shell Oil Company. Process for removing contaminants from a liquid $TiCl_4$ phase. 4,683,215, 7-28-87, Cl. 502-107.000.

Bilimoria, Bomi M.; Lewis, Herbert I.; Cook, Jerry A.; Turner, Ralph E., Jr.; and Garner, Robert H., to E.C.C. America Inc. Method for improving handleability of calcined kaolin clay products. 4,693,427, 9-15-87, Cl. 241-23.000.

Biljanic, Matt: *See—*
  Crittenden, William, 4,638,776, Cl. 123-235.000.

Billarant, Patrick J.; and Queval, Bruno, to Aplix. Fastening tape designed to be attached to a molded article during molding, and its attaching method. 4,693,921, 9-15-87, Cl. 428-100.000.

Billard, Alain, to Societe E. Lacroix - Tous Artifices. Method for deceiving active electromagnetic detectors and corresponding decoys. 4,695,841, 9-22-87, Cl. 342-8.000.

Billard, Georges; Blanchard, Francoise; Klemenz, Willy; Combet, Roger; and Richard, Daniel, to Vetrotex Saint Gobain. Device and process for simultaneously winding several separate fibers on a rotating support. 4,693,429, 9-15-87, Cl. 242-18.00G.

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Billeaudeaux, James K. Method and apparatus for radiographic inspection. 4,692,936, 9-8-87, Cl. 378-59.000.

Billen, Kurt: *See—*
  Muller, Fernand; Wannborg, Nils A.; and Billen, Kurt, 4,641,629, Cl. 126-6.000.

Billenstein, Siegfried; Kukla, Bruno; and Stuhler, Herbert, to Hoechst Aktiengesellschaft. Process for the preparation of fatty acid esters of short-chain alcohols. 4,668,439, 5-26-87, Cl. 260-410.90R.

Biller, Bruce A., to S&C Electric Company. Arrangement for connecting an electric device with a mounting therefor. 4,687,277, 8-18-87, Cl. 439-621.000.

Biller, Cleveland J.; and Johnson, David D., to United States of America, Agriculture. Apparatus for maintaining stability of mobile land vehicles on sloping terrain. 4,679,803, 7-14-87, Cl. 280-6.00H.

Biller, Cleveland J.: *See—*
  Johnson, David D.; and Biller, Cleveland J., 4,637,643, Cl. 294-75.000.

Biller, Dieter; and Stutz, Michael, to TRW Repa GmbH. Fitting for a safety belt for motor vehicles. 4,652,012, 3-24-87, Cl. 280-808.000.

Billet, Daniel; and Cesarini, Jean F., to Thomson CSF. Device for detecting and locating penetration of water into a marine acoustic streamer. 4,695,787, 9-22-87, Cl. 324-557.000.

Billet, Rene; and Bacher, Michel, to Valeo. Clutch having a starter ring gear and an ignition timing mark. 4,635,776, 1-13-87, Cl. 192-70.270.

Billet, Rene, to Valeo. Clutch release bearing and assembly tool for same. 4,637,506, 1-20-87, Cl. 192-110.00B.

Billet, Rene; and Bacher, Michel, to Valeo. Clutch with reaction plate in two parts, especially for motor vehicles. 4,650,051, 3-17-87, Cl. 192-70.120.

Billet, Rene ; and Bionaz, Jean, to Valeo. Transmission system, in particular for automobile vehicles, hydraulic coupling unit comprising same, and movement take-up device adapted for use in same. 4,667,470, 5-26-87, Cl. 60-338.000.

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Billet, Rene ; Mousston, Roland; and Bionaz, Jean, to Valeo. Torsional damping device having wide range clearance, and a hydraulic coupling having such a torsional damping device, in particular for a motor vehicle. 4,697,417, 10-6-87, Cl. 60-338.000.

Billet, Rene ; Rumignani, Paolo; and Chasseguet, Gustave, to Valeo. Torsional damper with intermediate member for rendering springs inoperative at low torque. 4,698,045, 10-6-87, Cl. 464-68.000.

Billeter, Armin, to Billeter Kunstsoffpulver A.G. Apparatus for applying partial surface coatings. 4,671,205, 6-9-87, Cl. 118-68.000.

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  Billeter, Armin, 4,671,205, Cl. 118-68.000.

Billett, Ronald J.: *See—*
  Shearon, Charles W.; Berticevich, Edward N.; and Billett, Ronald J., 4,685,214, Cl. 30-391.000.

Billett, Trevor G. Load-handling apparatus for a vehicle. 4,659,276, 4-21-87, Cl. 414-543.000.

Billette de Villemeur, Philippe M. Resilient removable electrical terminal-connector. 4,652,075, 3-24-87, Cl. 339-256.00R.

Billiet, Colin T.; Fielding, Robert M.; and Spark, Leslie B., to Domnick Hunter Filters Limited. Liquid/gas separation. 4,668,256, 5-26-87, Cl. 55-219.000.

Billiet, Colin T.; Baggett, David; and Fielding, Robert M., to Domnick Hunter Filters Limited. Filters. 4,696,687, 9-29-87, Cl. 55-316.000.

Billiet, Colin T.; and Baggett, David, to Domnick Hunter Filters Limited. Filter housings. 4,701,258, 10-20-87, Cl. 210-232.000.

Billiet, Richard L.: *See—*
  Jant, Keith H.; and Billiet, Richard L., 4,654,096, Cl. 156-149.000.

Billig, Ernst; Abatjoglou, Anthony G.; and Bryant, David R., to Union Carbide Corporation. Transition metal complex catalyzed processes 4,668,651, 5-26-87, Cl. 502-158.000.

Billigmeier, James E.; Groves, James D.; Haugen, Harwick A.; and Pokorny, Richard J., to Minnesota Mining and Manufacturing Company. Soap-thickened reenterable gelled encapsulants. 4,639,483, 1-27-87, Cl. 524-296.000.

Billings, Chris L. Mooring device for boats. 4,708,083, 11-24-87, Cl 114-230.000.

Billings, Robert L., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Flexible inductor. 4,692,604, 9-8-87, Cl 235-493.000.

Billings, Roger E. Funtionally structured distributed data processing system. 4,714,989, 12-22-87, Cl. 364-200.000.

Billings, Roger E. Method and apparatus for electrolyzing water 4,715,938, 12-29-87, Cl. 204-129.000.

Billings, William G., to Phillips Petroleum Company. Process for upgrading carbonaceous material comprising liquid extraction and flash pyrolysis of extraction residue. 4,640,760, 2-3-87, Cl 208-390.000.

Billings, William W., to Westinghouse Electric Corp. Solid state powe controller leakage current shunt circuit. 4,656,365, 4-7-87, C 307-140.000.

Billings, William W., to Westinghouse Electric Corp. Hybrid electrica power controller. 4,704,652, 11-3-87, Cl. 361-5.000.

Billingsley, Michael S. J. C. Simulated binaural recording system 4,658,932, 4-21-87, Cl. 181-175.000.

Billingsley, Robert H.; and Jantzen, Steven L., to ACF Industrie Incorporated. Truss end structure for stub sill hopper cars. 4,690,07 9-1-87, Cl. 105-404.000.

Billingsley, Robert H., Jr.; Jantzen, Steven L.; O'Leary, Walter E.; an Krug, John A., to ACF Industries, Incorporated. End structure f railway car. 4,696,238, 9-29-87, Cl. 105-248.000.

Billington, Donald G.: *See—*
  Gordon, Alan J.; and Billington, Donald G., 4,696,743, C 210-361.000.
  Gordon, Alan J.; Billington, Donald G.; Evans, Robert; and Bo man, David J., 4,705,630, Cl. 210-361.000.

Billion, Leo, to Supernova Systems, Inc. Apparatus for detecting imp rities in translucent bodies. 4,634,881, 1-6-87, Cl. 250-572.000.

Billmaier, Joseph F.: *See—*
  Ahl, Alan D.; Billmaier, Joseph F.; Graham, Paul W. L.; Sche Mark B.; and Zylka, Stephen H., 4,691,830, Cl. 209-523.000.

Billmann, Gerhard: *See—*
  Bauer, Anton E.; Billmann, Gerhard; Rathke, Jorg; Schiman Hans-Joachim; Schrott, Georg W.; and Wodok, Hans, 4,696,5 Cl. 350-96.200.

Billmayer, Charles E.; and Koch, Robert P., to Leisure Life Limit Manually powered boat. 4,668,196, 5-26-87, Cl. 440-26.000.

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  Solarek, Daniel B.; Jobe, Patrick G.; Tessler, Martin M.; Billm Robert L.; Lamb, Diane J.; and Tsai, John J., 4,703,116, 536-104.000.

Billner, Werner, to Schubert & Salzer. Open-end spinning dev 4,697,410, 10-6-87, Cl. 57-401.000.

Billon, Alain: *See—*
  Le Page, Jean-Francois; Billon, Alain; Morel, Frederic; Ren Pierre; Biedermann, Jean-Michel; Laborde, Michel; and B quet, Jacques, 4,715,946, Cl. 208-45.000.

Billon, Michel, to Clextral. Process and installation for the prepara of a sweet wort. 4,661,449, 4-28-87, Cl. 435-93.000.

Billon, Michel: *See—*
  Chaveron, Henri; Pontillon, Jean; Billon, Michel; Adenier, He and Kamoun, Ahmed, 4,679,498, Cl. 99-483.000.
  Chaveron, Henri; Pontillon, Jean; Billon, Michel; Adenier, He and Kamoun. Ahmed, 4,713,256, Cl. 426-631.000.

Billot, Jean, to Rafaut S.A. Safety device for preventing an airb charge from being armed. 4,658,698, 4-21-87, Cl. 89-1.550.

Bills, Daniel G.; Arnold, Paul C.; Dodgen, Stephen L.; and Van C Craig B., to Granville-Phillips Company. Vacuum gauge. 4,636 1-13-87, Cl. 313-7.000.

Bills, Joseph W.; and Moller, William D., to Dakota Mfg. Co., Cable wheel handling and transporting trailer. 4,701,098, 10-2 Cl. 414-502.000.

Bills, Randall C.; Bumgardner, Teddy E.; Monroe, Lusbert L. Zimmermann, Jeffery D., to Beltway Construction, Inc. Prote elevator systems. 4,708,222, 11-24-87, Cl. 187-1.00R.

Billstein, Herbert H. Crane load-test gauge. 4,697,458, 10-6-8 73-862.000.

Billups, James O., Jr.: *See—*
  Rothenberg, Barry E.; and Billups, James O., Jr., 4,673,65 435-301.000.

Bilsbury, Stephen J., to Olin Corporation. Plastic armor piercin jectile. 4,649,829, 3-17-87, Cl. 102-515.000.

Bilski, Richard E.: *See—*
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Bilsom AB: *See—*
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Bilstad, Arnold C.: *See—*
Anthony, Jack; Bilstad, Arnold C.; Leblong, Wayne T.; and Kruger, Robert J., 4,714,595, Cl. 422-294.000.

Bilt, Michael M. Motor-operated sliding door assembly. 4,672,773, 6-16-87, Cl. 49-358.000.

Bily, Robert R. Starter cultures of improved activity for dairy products and process of making same. 4,713,341, 12-15-87, Cl. 435-253.000.

Bilyeu, Roy M. Putter guide. 4,647,045, 3-3-87, Cl. 273-163.00A.

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Bimax Controls, Inc.: *See—*
Anderson, Arthur H.; and MacNicol, Allan E., 4,646,965, Cl. 236-59.000.

Bimba, Charles W. Tie rod cylinder with gasketless seal. 4,643,332, 2-17-87, Cl. 220-327.000.

Bimbert, Claude: *See—*
Bessey, Guy; and Bimbert, Claude, 4,677,838, Cl. 72-254.000.

Bimer, Thomas C.: *See—*
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Bimonte, Michael; and Cleary, Dennis. Apparatus for refuse collection and disposal. 4,694,972, 9-22-87, Cl. 220-401.000.

Binasik, Chester S.; and Londerville, Steve B., to Coen Company, Inc. Pulverized fuel slurry burner and method of operating same. 4,685,882, 8-11-87, Cl. 431-182.000.

Bincoletto, Ilario, to Lafert S.r.l. Electric motor liquid cooling structure. 4,700,092, 10-13-87, Cl. 310-54.000.

Bind-O-Matic AB: *See—*
Spolander, Sven I., 4,667,983, Cl. 281-15.00R.
Wiholm, Sture H., 4,678,386, Cl. 412-8.000.

Binden, John A., to Northrop Corporation. X-wing helicopter-scout attack configuration. 4,711,415, 12-8-87, Cl. 244-17.190.

Binder, George G., Jr., to Exxon Production Research Co. Method of cementing a casing in a borehole. 4,671,357, 6-9-87, Cl. 166-291.000.

Binder, Hans, to USM Corporation. Automatic join and sew process for shoes. 4,639,964, 2-3-87, Cl. 12-142.0LC.

Binder, Karl-Franz; and Czermak, Ladislaus. Machine tool for cutting or the like. 4,687,901, 8-18-87, Cl. 219-121.0LG.

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Bomba, Frank C., Schumann, Reinhard; Jenkins, Steven R.; and Binder, Paul, 4,661,905, Cl. 364-200.000.

Binder, Perry S. Hydrogel seton. 4,634,418, 1-6-87, Cl. 604-8.000.

Binder, Robert; and Beer, Michael, to Dr. Ing. h.c.f. Porsche Aktiengesellschaft. Air-cooled multi-cylinder internal combustion engine. 4,660,512, 4-28-87, Cl. 123-41.600.

Binder, Robert: *See—*
Ampferer, Herbert; and Binder, Robert, 4,657,043, Cl. 137-543.190.

Binder, Rolf; Hanselmann, Daniel; and Staheli, Christoph, to Maschinenfabrik Rieter AG. Method of and a control arrangement for a machine for extracting fiber flocks from textile fiber bales. 4,660,257, 4-28-87, Cl. 19-80.00R.

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Binder, Walter L.: *See—*
Coates, Stephen R.; and Binder, Walter L., 4,645,737, Cl. 435-7.000.

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Dettelbach, Alfred; and Binder, Werner, 4,711,147, Cl. 83-863.000.

Binder, William T. Vertically adjustable boat furniture. 4,673,155, 6-16-87, Cl. 248-404.000.

Bindi, Rene. System for insulating the interior surface of basement walls, structures and components therefor. 4,653,241, 3-31-87, Cl. 52-169.110.

Bindman, Stanley: *See—*
Abraham, Carl J.; Newman, Malcolm; and Bindman, Stanley, 4,699,855, Cl. 429-175.000.

Bindner, Patrick E.; Selkirk, Eric B.; and Norton, Peter R., to Canada, Atomic Energy of, Limited. Automatic, self sustaining probe for measuring the work function. 4,649,336, 3-10-87, Cl. 324-61.00R.

Binet Feutres S. A.: *See—*
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Binet, Jean: *See—*
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Binet, Jean-Claude: *See—*
Pasquali, Jean-Claude; and Binet, Jean-Claude, 4,666,751, Cl. 428-40.000.

Binet, Michel J. M.; and Ducourant, Thierry, to U.S. Philips Corporation. Clocked comparator. 4,656,371, 4-7-87, Cl. 307-362.000.

Bingener, Hans, to Durol Flying Lindauer Ikh Montage GmbH. Procedure for coating and heat insulating of walls and ceilings, etc., and device for carrying out the procedure. 4,638,545, 1-27-87, Cl. 29-460.000.

Binger, Paul; and Weintz, Hans-Joachim, to Studiengesellschaft Kohle mbH. Process for preparing 3-methyl-2-butene-4-olide (4-methyl-2(5H)-furane-2-one). 4,659,843, 4-21-87, Cl. 549-295.000.

Bingham, Alistair H. A.; Atkinson, Anthony; and Bruton, Christopher J., to Public Health Laboratory Service Board, The. Chimeric plasmids. 4,663,285, 5-5-87, Cl. 435-172.300.

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Bingham, David, to Maxim Integrated Products, Inc. Integrated half-wave rectifier circuit. 4,700,286, 10-13-87, Cl. 363-127.000.

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Bingham, Grady A., to Thermal Concepts, Inc. Heat pump and method. 4,644,759, 2-24-87, Cl. 62-324.100.

Bingham, Michael C.: *See—*
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Bingley, John D.; and Longcoy, Dennis F., to RCA Corporation. Augmentation heater temperature control system. 4,656,828, 4-14-87, Cl. 60-203.100.

Bingley, John D.: *See—*
Callen, Patrick J.; Bingley, John D.; and Newell, Richard A., 4,706,010, Cl. 323-225.000.

Bingo Experience/ARC: *See—*
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Bishop, Kevin, 4,676,509, Cl. 273-239.000.

Bingo, Hideyuki: *See—*
Hayashi, Mitsuji; Niwa, Takashi; Hayakawa, Akihiko; Bingo, Hideyuki; Kazusaka, Shoji; and Konishi, Keisuke, 4,701,582, Cl. 200-61.420.

Bingold, Steven R.; Kleck, Jeffrey A.; and Dobyns, Kenneth P., to Tektronix, Inc. Potentiometer having switching function. 4,647,897, 3-3-87, Cl. 338-172.000.

Bingold Ventures: *See—*
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Bini, Aldo, to Alcatel N.V. Mobile telephone location system. 4,700,374, 10-13-87, Cl. 379-60.000.

Bini, Anselmo. Process and apparatus for the lifting and carriage of objects placed on tray-like supports. 4,639,030, 1-27-87, Cl. 294-64.100.

Bini, Dante, to Binistar International, N.V. Building construction and method utilizing modular components. 4,669,231, 6-2-87, Cl. 52-2.000.

Biniasz, Franz-Josef; Engl, Bernhard; Fuchs, Axel; and Huser, Margrit, to Hoesch Stahl AG. Worked low-temperature tough ferritic steel. 4,687,525, 8-18-87, Cl. 148-336.000.

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Lepand, Heinz; Huser, Margrit; Biniasz, Franz-Josef; and Fuchs, Axel, 4,710,244, Cl. 148-333.000.

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Binker, Norman; and Miranda, Sandra. Sanitary napkin with integral disposal wrapper. 4,692,162, 9-8-87, Cl. 604-385.00R.

Binkerd, Mark S.; and Sand, William C., to AT&T Bell Laboratories. Signaling protocol channel unit. 4,636,584, 1-13-87, Cl. 379-240.000.

Binkley Company, The: *See—*
Hensiek, Benjamin E., 4,660,882, Cl. 296-104.000.

Binks Manufacturing Company: *See—*
Cavanaugh, James E.; Erwin, Larry; and Hetherington, Robert D., 4,690,308, Cl. 222-156.000.
Culbertson, Samuel W.; and Merritt, James S., 4,643,357, Cl. 239-112.000.
Pomponi, Edward A., Jr., 4,650,119, Cl. 239-296.000.

Binnersley, Edwin K.; and Krueger, William H., to Du Pont de Nemours, E. I., and Company. Fiber reinforced thermoplastic material. 4,640,861, 2-3-87, Cl. 428-294.000.

Binnewies, Willi: *See—*
Oetting, Hermann; Oberg, Hans-Joachim; Pundt, Dieter; and Binnewies, Willi, 4,669,443, Cl. 123-647.000.

Binns, Ian D.; and Makin, Brian, to National Research Development Corporation. Assessing powder coatings. 4,704,297, 11-3-87, Cl. 427-9.000.

Binsack, Rudolf; Kohler, Karl-Heinz; Grigo, Ulrich; Morbitzer, Leo; Bottenbruch, Ludwig; and Heitz, Walter, to Bayer Aktiengesellschaft. Thermoplastic block copolyesters, a process for the preparation thereof and their use for the production of mouldings. 4,686,262, 8-11-87, Cl. 525-177.000.

Binsack, Rudolf: *See—*
Nielinger, Werner; Michael, Dietrich; Fullmann, Heinz-Josef; Binsack, Rudolf; and Selbeck, Harald, 4,670,487, Cl. 524-80.000.
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Binsack, Rudolph: *See—*
Kohler, Karl-Heinz; Lindner, Christian; Rempel, Dieter; Weber, Gunter; Ott, Karl-Heinz; and Binsack, Rudolph, 4,666,972, Cl. 524-504.000.

Bintech (PTY) Ltd.: *See—*
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Binzen, Willard; Insana, Samuel P.; Manning, Edward T., Jr.; and Muhoray, Cornel, to Dravo Corporation. Rotary car dumper with lump breaker apparatus. 4,655,401, 4-7-87, Cl. 241-69.000.

Binzen, Willard, to Dravo Corporation. Dust control in hoppers. 4,699,187, 10-13-87, Cl. 141-5.000.

Binzen, Willard; and Catan, Robert S., to Dravo Corporation. Dust containment system for bulk cargo containers. 4,714,097, 12-22-87, Cl. 141-5.000.

Binzer, Norbert: *See—*
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Guido, Jurgen; and Binzer, Norbert, 4,705,306, Cl. 285-332.000.

Bio/Data Corporation: *See—*
Coville, William E.; Grossman, Hyman; and Sokol, Michael, 4,695,430, Cl. 422-65.000.

- Bio-Diagnostics, Inc.: *See—*
  - Hendrix, John L., 4,707,454, Cl. 436-546.000.
- Bio-Dynamic Innovations, Inc.: *See—*
  - Bloemendaal, Brent J., 4,645,199, Cl. 272-73.000.
- Bio-Dynamics Research & Development Corporation: *See—*
  - Simmons, James A., 4,640,134, Cl. 73-648.000.
- Bio-Electric, Inc.: *See—*
  - Welch, Albert B., 4,672,951, Cl. 128-1.500.
- Bio-Environmental Systems, Inc.: *See—*
  - Smith, William B., 4,670,227, Cl. 422-297.000.
- Bio-Innovations: *See—*
  - Jackson, Frank W.; and Schlossberg, David, 4,635,790, Cl. 206-210.000.
  - Jackson, Frank W.; and Schlossberg, David, 4,635,791, Cl. 206-210.000.
- Bio-logic Systems Corp.: *See—*
  - Raviv, Gabriel; and Raviv, Gil, 4,649,482, Cl. 364-417.000.
- Bio-Magnetech Corporation: *See—*
  - Schwartz, Brian B.; and Blakemore, Nancy, 4,677,067, Cl. 435-177.000.
- Bio-Medical Research Laboratories, Inc.: *See—*
  - Spicer, Jay; Duncan, William P.; Rotert, Gary A.; and Baranczuk, Richard J., 4,659,517, Cl. 260-397.500.
- Bio Medical Research Ltd.: *See—*
  - Kidd, Geoffrey; Maher, Daniel V.; and Cywinski, Jozef, 4,712,558, Cl. 128-421.000.
- Bio-Medical Resources, Inc.: *See—*
  - Leigh, Harold G., 4,667,684, Cl. 128-754.000.
- Bio-Organics, Inc.: *See—*
  - Tenzer, Abraham I., 4,666,497, Cl. 71-6.000.
- Bio-Process Innovation, Inc.: *See—*
  - Dale, M. Clark; Wankat, Philip C.; and Okos, Martin R., 4,665,027, Cl. 435-162.000.
- Bio-Rad Laboratories, Inc.: *See—*
  - Burd, Samuel; and Chu, Daniel Y., 4,699,706, Cl. 204-301.000.
  - Chu, Daniel Y. M., 4,702,266, Cl. 134-60.000.
  - Chu, Daniel Y. M., 4,705,056, Cl. 134-111.000.
  - Juarez-Salinas, Hector; and Ott, Gary S., 4,704,366, Cl. 436-501.000.
  - Sleeter, Donald D.; von Alven, Raymond D.; and Fernwood, George G., 4,663,015, Cl. 204-299.00R.
- Bio-Response, Inc.: *See—*
  - Rose, Sam, 4,659,655, Cl. 435-7.000.
- Bio Separation Limited: *See—*
  - Gibbs, Dudley F.; Greenhalgh, Marilyn E.; Watson, James H. P.; Yeo, Richard G.; and Ellwood, Derek C., 4,701,261, Cl. 210-606.000.
- Bio Techniques Laboratories, Inc.: *See—*
  - Huber, Neil M., 4,708,879, Cl. 426-335.000.
- Bio Uclaf Corp.: *See—*
  - Haus, Joseph B., 4,677,117, Cl. 514-461.000.
- BIO-UCLAF S.A.: *See—*
  - Haus, Joseph B.; and Gombos, Esther, 4,676,977, Cl. 424-45.000.
- Bioassy Systems Corporation: *See—*
  - Bear, Mark P.; and Schneider, F. Howard, 4,670,396, Cl. 435-285.000.
- Biocarb AB: *See—*
  - Mardh, Per A.; and Svensson, Sigfrid, 4,665,060, Cl. 514-61.000.
- Biochemical Diagnostics, Inc.: *See—*
  - Kopp, Reiner H.; and Panetz, Allen I., 4,696,187, Cl. 73-61.10C.
- Biochemie: *See—*
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- Biocompatibles Limited: *See—*
  - Chapman, Dennis; and Hayward, James A., 4,675,310, Cl. 514-6.000.
  - Chapman, Dennis; and Valencia, Gregorio P., 4,689,386, Cl. 528-71.000.
- Biodex Corporation: *See—*
  - Boyd, Robert L.; Krukowski, Richard; and Gezari, Daniel Y., 4,691,694, Cl. 128-25.00R.
- BioDynamic Technologies Inc.: *See—*
  - Moeller, Rudolph H., 4,706,897, Cl. 241-37.500.
- Bioetica, S.A.: *See—*
  - Huc, Alain; Gimeno, Rene; and Herbage, Daniel, 4,711,783, Cl. 424-460.000.
- Biofac, Inc.: *See—*
  - Maedgen, Malcolm A., Jr., 4,646,683, Cl. 119-1.000.
- Biogal Gyogyszergyar: *See—*
  - Madi-Szabo, Laszlo; Morvai, Margit; Horvath nee Feher, Eva; Jansco, Sandor; Tamasi, Piroska; Kovacs, Istvan; Kiss nee Loss, Ilona Maria; Bacsa, Gyorgy; Kubala nee Papp, Maria; and Bene nee Horvath, Magdolna, 4,705,779, Cl. 514-27.000.
  - Nagy, Imre Z.; Emri, Zsuzsanna; Jancso, Sandor; Csernus, Istvan; and Balint, Janos, 4,661,618, Cl. 560-62.000.
- Biogen N.V.: *See—*
  - Buell, Gary N., 4,693,973, Cl. 435-68.000.
  - Murray, Kenneth, 4,710,463, Cl. 435-68.000.
  - Panayotatos, Nikos, 4,716,112, Cl. 435-68.000.
- BioGenesis Laboratories, Inc.: *See—*
  - Baugh, Clarence L., 4,656,038, Cl. 424-164.000.
- Bioheal, Inc.: *See—*
  - Pickart, Loren R., 4,665,054, Cl. 514-18.000.
- Biokinetics, Inc.: *See—*
  - Steuer, Robert R.; and Harris, David H., 4,711,248, Cl. 128-748.000.
- Biolchini, Robert J.; Boward, Willard L., Jr.; and Wang, Kuei-Hsiung, to FMC Corporation. Sodium-limestone double alkali flue gas desulfurization process with improved limestone utilization. 4,687,646, 8-18-87, Cl. 423-242.000.
- Biolectron, Inc.: *See—*
  - Dugot, Richard S., 4,667,683, Cl. 128-746.000.
- Biollaz, Michel, to Ciba-Geigy Corporation. Epoxy steroids. 4,670,551, 6-2-87, Cl. 540-23.000.
- Biomasys Sarl: *See—*
  - Lapeyre, Didier; and Slonina, Jean-Pierre, 4,654,033, Cl. 604-175.000.
  - Slonina, Jean P., 4,704,120, Cl. 623-3.000.
- Biomaterials International, Inc.: *See—*
  - Van Wagenen, Richard A., 4,676,639, Cl. 356-246.000.
- Biomaterials Universe, Inc.: *See—*
  - Hyon, Suong-Hyu; and Ikada, Yoshito, 4,663,358, Cl. 521-64.000.
- Biomatrix, Inc.: *See—*
  - Balazs, Endre A.; and Leshchiner, Adolf, 4,636,524, Cl. 514-781.000.
  - Balazs, Endre A.; Leshchiner, Adolf; Leshchiner, Adelya; and Band, Philip, 4,713,448, Cl. 536-55.100.
- Biomeasure, Inc.: *See—*
  - Kim, Sun H., 4,652,668, Cl. 558-390.000.
- Biomed-Electronic GMBH & Co. Medizinischer Geratebau KG: *See—*
  - Blach, Thomas, 4,686,370, Cl. 250-423.00R.
- Biomedical Dynamics Corporation: *See—*
  - Marino, Joseph A., Jr.; and Bellin, Matthew E., 4,634,434, Cl. 604-246.000.
- Biomedical Polymers, Inc.: *See—*
  - Fay, John E., 4,675,110, Cl. 210-436.000.
- Biomelktechnik Hoefelmayr & Co.: *See—*
  - Hoefelmayr, Tilman; and Maier, Jakob, 4,649,863, Cl. 119-14.320.
- Bionaz, Jean: *See—*
  - Billet, Rene ; and Bionaz, Jean, 4,667,470, Cl. 60-338.000.
  - Billet, Rene ; Mousston, Roland; and Bionaz, Jean, 4,697,417, Cl. 60-338.000.
- Biondetti, Mario; and Baur, Roland, to Escher Wyss GmbH. Method of washing stock suspensions by removing undesired material through an endless revolving wire. 4,686,005, 8-11-87, Cl. 162-60.000.
- Biondi, Carlo: *See—*
  - Frascaroli, Francesco; and Biondi, Carlo, 4,639,049, Cl. 312-195.000.
- Bione, Angelo A.; and Sirazi, Semir, to Zenith Electronics Corporation. Bridging techniques for local area networks. 4,707,827, 11-17-87, Cl. 370-85.000.
- Biordo, Jose M. Compressed rotative motor. 4,668,159, 5-26-87, Cl. 415-74.000.
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  - Kurtz, Leonard D.; and LiCausi, Joseph, 4,648,874, Cl. 604-321.000.
  - Kurtz, Leonard D.; and LiCausi, Joseph M., 4,675,011, Cl. 604-320.000.
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  - Kurtz, Robert J., 4,685,908, Cl. 604-321.000.
- Bioresearch SpA: *See—*
  - Gennari, Federico, 4,673,534, Cl. 260-501.120.
- Biorex Laboratories, Limited: *See—*
  - Vanstone, Anthony E.; Maile, Graham K.; and Nalbantoglu, Lynn K., 4,656,305, Cl. 560-54.000.
- Bioscan, Inc.: *See—*
  - Shulman, Seth D., 4,682,035, Cl. 250-370.000.
- Biosearch Medical Products, Inc.: *See—*
  - Potter, Lawrence A.; and Sgro, James, 4,659,328, Cl. 604-170.000.
- Biosonics, Inc.: *See—*
  - Brenman, Henry S.; Katz, Philip; and Beatty, Graydon E., 4,637,405, Cl. 128-787.000.
  - Brenman, Henry S.; Katz, Philip; and Schwartz, Harold L., 4,663,102, Cl. 264-222.000.
- BioSpecific Technologies, Inc.: *See—*
  - Honard, Mark R.; Holmes, Mark A.; and Jarrett, Robert D., 4,685,900, Cl. 604-5.000.
  - Jarrett, Robert D.; and McCain, G. Howard, 4,687,808, Cl. 525-54.100.
- Biospecifics, NV: *See—*
  - Pinnell, Sheldon R., 4,645,668, Cl. 424-94.000.
- Biostar Medical Products, Inc.: *See—*
  - Ozkan, Adil N., 4,681,782, Cl. 428-36.000.
- Biotec: *See—*
  - Roberfroid, Marcel B.; Viehe, Heinz G.; and Hervens, Francoise M., 4,673,690, Cl. 514-563.000.
- Biotech Research Laboratories, Inc.: *See—*
  - Hao, Yu-Lee, 4,677,194, Cl. 530-350.000.
- Biotechnica International, Inc.: *See—*
  - Backman, Keith C., 4,673,640, Cl. 435-68.000.
- Biotechnology Australia Pty. Ltd.: *See—*
  - Rhodes, Stuart H.; Lyons, Graham R.; Gregson, Richard P.; Akhurst, Raymond J.; and Lacey, Michael J., 4,672,130, Cl. 348-453.000.
- Biotek, Inc.: *See—*
  - Nuwayser, Elie S., 4,687,481, Cl. 604-897.000.
  - Nuwayser, Elie S., 4,707,362, Cl. 424-433.000.
- Biotest Pharma GmbH: *See—*
  - Kothe, Norbert; Dichtelmuller, Herbert; Stephan, Wolfgang; and Eichentopf, Bertram, 4,644,056, Cl. 530-387.000.
- Biotest-Serum-Institut GmbH: *See—*
  - Heimpel, Hans D.; and Merz, Dieter, 4,663,293, Cl. 435-294.000.

Hempel, Hans D.; Horn, Jurgen; Rothermel, Wilfried; Sonneborn, Hans H.; Becker, Michael; and Muller Ullrich, 4,678,753, Cl. 435-296.000.

Biotica, S.A.: *See—*

Huc, Alain; Le Pivert, Patrick; and Gimeno, Rene, 4,670,014, Cl. 604-891.000.

Biotrack, Inc.: *See—*

Allen, Jimmy D.; Cobb, Michael E.; Hillman, Robert S.; Mungall, Dennis R.; Ostoich, Vladimir E.; and Stroy, Gary H., 4,712,460, Cl. 83-208.000.

BIP Chemicals Limited: *See—*

Carter, Moira A., 4,656,206, Cl. 523-351.000.

Taylor, David, 4,691,001, Cl. 528-256.000.

Bipore, Inc.: *See—*

Kocak, Nuri, 4,705,511, Cl. 604-282.000.

Birch, David J. S.; and Imhof, Robert E., to University of Strathclyde. Apparatus for measuring fluorescence decay characteristics of materials. 4,686,371, 8-11-87, Cl. 250-461.100.

Birch, Jorgen. Broad spectrum camouflage mat. 4,659,602, 4-21-87, Cl. 428-88.000.

Birch, Norman R.; Pauza, William V.; and Sheesley, Wilmer L., to AMP Incorporated. Segmented construction for electrical connector assembly. 4,687,446, 8-18-87, Cl. 439-553.000.

Birch, Richard J.: *See—*

Fang, Pao-Hsien, 4,639,543, Cl. 136-256.000.

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Birchak, James R.; Flora, John H.; and Holt, Amos E., to Babcock & Wilcox Company, The. Electromagnetic flux leakage inspection system for ferromagnetic tubes. 4,649,343, 3-10-87, Cl. 324-220.000.

Birchak, James R.: *See—*

Rodney, Paul F.; and Birchak, James R., 4,665,511, Cl. 367-35.000.

Birchall, James D.: *See—*

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Birchfield, Conny. Fish line sinker. 4,679,349, 7-14-87, Cl. 43-44.970.

Bircsak, Garin S.: *See—*

Schaaf, Gregory; and Bircsak, Garin S., 4,644,357, Cl. 342-168.000.

Bird, Charles R.; and Mertz, John M., to Stainless Foundry & Engineering, Inc. Method of investment casting employing microwave susceptible material. 4,655,276, 4-7-87, Cl. 164-519.000.

Bird, Charles R.; and Rockett, Paul D., to KMS Fusion, Inc. Movable anode x-ray source with enhanced anode cooling. 4,685,119, 8-4-87, Cl. 378-130.000.

Bird, Dale T.: *See—*

Basinsky, Michael J.; Bird, Dale T.; and Smith, Daniel W., 4,638,971, Cl. 248-678.000.

Bird, David Owen, to BASF Corporation. Apparatus and process for converting a continuous multifilament yarn to a staple-like yarn. 4,674,271, 6-23-87, Cl. 57-2.000.

Bird, Elizabeth A., to Cottage Industries (Equestrian) Limited. Girth strap. 4,709,539, 12-1-87, Cl. 54-23.000.

Bird, Graham J.; Farquharson, Graeme J.; and Watson, Keith G., to ICI Australia Limited. Herbicidal cyclohexane-1,3-dione derivatives. 4,640,708, 2-3-87, Cl. 71-98.000.

Bird, Graham J.; Farquharson, Graeme J.; Watson, Keith G.; and Whitelaw, Murray L., to ICI Australia Limited. 5-[Substituted bicyclic aryl or heteroaryl]cyclohexane-1,3-dione herbicides. 4,664,693, 5-12-87, Cl. 71-88.000.

Bird, Graham J.; Farquharson, Graeme J.; and Watson, Keith G., to ICI Australia Limited. Herbicidal cyclohexane-1,3-dione-5-isoquinoline derivatives. 4,680,400, 7-14-87, Cl. 546-141.000.

Bird, Graham J.: *See—*

Farquharson, Graeme J.; Watson, Keith G.; and Bird, Graham J., 4,639,267, Cl. 71-98.000.

Farquharson, Graeme J.; Watson, Keith G.; and Bird, Graham J., 4,643,763, Cl. 71-98.000.

Watson, Keith G.; Bird, Graham J.; and Farquharson, Graeme J., 4,652,303, Cl. 71-88.000.

Watson, Keith G.; Garson, Lynette A.; Bird, Graham J.; Cross, Lindsay E.; and Farquharson, Graeme J., 4,666,510, Cl. 71-103.000.

Bird, James M., to Industrial Vehicles International, Inc. Vibrator for seismic geophysical prospecting. 4,658,930, 4-21-87, Cl. 181-113.000.

Bird, James M., Sr.; and Lewis, Jesse M., to Industrial Vehicles International, Inc. Marine seismic vibrator having support structure including vibration isolators. 4,635,747, 1-13-87, Cl. 181-120.000.

Bird, John M.: *See—*

McDougall, Ian L.; and Bird, John M., 4,701,736, Cl. 335-299.000.

Bird, William L., Jr: *See—*

Shah, Manoj R.; Lenz, Henry G.; and Bird, William L., Jr, 4,716,328, Cl. 310-178.000.

Birdsall, Raymond P.: *See—*

Ellsworth, Wendell E.; and Birdsall, Raymond P., 4,637,182, Cl. 52-211.000.

Birdsell, Jackie D.: *See—*

White, James E.; Alley, Lewis F.; Anderson, James E.; and Birdsell, Jackie D., 4,637,936, Cl. 426-523.000.

Birdwell, J. C. Mud pump. 4,676,724, 6-30-87, Cl. 417-342.000.

Birdwell, Jeffrey D.: *See—*

Carl, William P.; and Birdwell, Jeffrey D., 4,650,551, Cl. 204-59.00R.

Carl, William P.; and Birdwell, Jeffrey D., 4,650,711, Cl. 428-265.000.

Carl, William P.; and Birdwell, Jeffrey D., 4,698,243, Cl. 427-341.000.

McIntyre, John M.; Birdwell, Jeffrey D.; and Smith, Bruce R., 4,654,104, Cl. 156-276.000.

Birdwell, Jimmy A.: *See—*

Reeves, Robert H., Jr.; Green, Donald H.; Birdwell, Jimmy A.; and Jorgensen, Henry A., 4,703,780, Cl. 141-1.000.

Birdy, Jal N.; Watt, Brian J.; and Chen, Jade, to Brian Watt Associates, Inc. Arctic structure of composite wall construction. 4,655,642, 4-7-87, Cl. 405-217.000.

Birdy, Jal N.: *See—*

Watt, Brian J.; Bhula, Dilipkumar N.; and Birdy, Jal N., 4,695,197, Cl. 405-224.000.

Bireley, Richard L.; and Iltis, Rumult, to Alexander, Ranya L. Moisture sensor. 4,657,039, 4-14-87, Cl. 137-78.300.

Birjukov, Vasily D.; Kolganenko, Vladimir V.; Tsaregradsky, Vsevolod V.; Darovsky, Vladimir G.; and Titov, Boris K., to Mezhotraslevoi Golovnoi Konstruktorsko-Tekhnologichesky Institut Tekhnologicheskoi Osnastki. Versatile knockdown fixture. 4,699,364, 10-13-87, Cl. 269-303.000.

Birk, Adalbert; and Saugeon, Ulrich, to Siemens Aktiengesellschaft. Method and apparatus for processing ultrasonic echo signals. 4,703,440, 10-27-87, Cl. 364-521.000.

Birk, David E.: *See—*

Silver, Frederick A.; Berg, Richard A.; Birk, David E.; Weadock, Kevin; and Whyne, Conrad, 4,703,108, Cl. 530-356.000.

Birk, John; Breu, Heinz; Gong, William; Morehouse, Charles C.; and Liebes, Sidney, Jr., to Hewlett-Packard Company. System for sensing and forming objects such as leads of electronic components. 4,705,081, 11-10-87, Cl. 140-147.000.

Birk, Josef; Baisch, Friedhelm; and Borger, Heinz J., to Deutsche Forschungs- und Versuchsanstalt fur Luft- und Raumfahrt e.V. Apparatus for medical treatments. 4,691,695, 9-8-87, Cl. 128-38.000.

Birkedahl, Byron F., to Sperry Corporation. Asymmetric torque switching for aircraft autopilot. 4,638,229, 1-20-87, Cl. 318-584.000.

Birkenbach, Eugen J.; Eversole, Brad K.; and Magee, Kevin J., to J. I. Case Company. Self-leveling agricultural implement. 4,712,622, 12-15-87, Cl. 172-328.000.

Birkett, Harry. Canoe conversion kit. 4,641,594, 2-10-87, Cl. 114-43.000.

Birkhauser, Robert R., to Creative Design Technologies, Ltd. Adjustable auxiliary vehicle light. 4,654,757, 3-31-87, Cl. 362-61.000.

Birkhauser, Robert R., III, to Auto Glass Specialists, Inc. Windshield repair assembly. 4,681,520, 7-21-87, Cl. 425-12.000.

Birkle, Siegfried; and Gehring, Johann, to Siemens Aktiengesellschaft. Lock for loading and unloading goods into a treatment apparatus having a protective atmosphere. 4,668,367, 5-26-87, Cl. 204-275.000.

Birkle, Siegfried; and Gehring, Johann, to Siemens Aktiengesellschaft. Apparatus for electrolytic surface treatment of bulk goods. 4,670,120, 6-2-87, Cl. 204-201.000.

Birkle, Siegfried; and Gehring, Johann, to Siemens Aktiengesellschaft. Apparatus for mass electroplating of bulk goods. 4,671,862, 6-9-87, Cl. 204-213.000.

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Birkley, Adrian N. Carriage apparatus for saw tables. 4,639,005, 1-27-87, Cl. 280-43.140.

Birkmeyer, William J.: *See—*

Singer, Debra L.; Birkmeyer, William J.; Dowbenko, Rostyslaw; and Kania, Charles M., 4,690,980, Cl. 525-286.000.

Birkmire, Robert W.: *See—*

McCandless, Brian E.; and Birkmire, Robert W., 4,709,466, Cl. 437-5.000.

Birkner, Joseph R.: *See—*

Hurley, James R.; Birkner, Joseph R.; and Nunes, Maurice, 4,671,250, Cl. 126-21.00A.

Birks, John W.; and Gandelman, Mitchell S., to University Patents, Inc. High-performance liquid chromatography process and apparatus and composition of matter therefor. 4,656,141, 4-7-87, Cl. 436-172.000.

Birmingham, Virginia A.; and Seno, Eugene T., to Eli Lilly and Company. Method of selecting recombinant DNA-containing streptomyces. 4,680,265, 7-14-87, Cl. 435-172.300.

Birmingham, William H.: *See—*

Yuhas, Ralph G.; and Birmingham, William H., 4,653,228, Cl. 49-357.000.

Birnbach, Curtis; and Tanner, Jay, to Quantum Diagnostics Ltd. Optical image processor. 4,647,154, 3-3-87, Cl. 350-162.120.

Birnbach, Curtis; and Tanner, Jay, to Quantum Diagnostics Ltd. Apparatus and process for object analysis by perturbation of interference fringes. 4,653,855, 3-31-87, Cl. 350-163.000.

Birnbach, Curtis; and Tanner, Jay, to Quantum Diagnostics Ltd. X-ray source employing cold cathode gas discharge tube with collimated beam. 4,670,894, 6-2-87, Cl. 378-122.000.

Birnbach, Curtis; and Tanner, Jay, to Quantum Diagnostics Ltd. X-ray frequency down converter. 4,710,939, 12-1-87, Cl. 372-73.000.

Birnbach, Curtis: *See—*

Dorman, Arthur; Glave, William K.; and Birnbach, Curtis, 4,700,076, Cl. 250-370.000.

Birnbaum, Jack; and Lampe, Donald R., to United States of America, Air Force. CCD recirculation data flow arrangement. 4,675,847, 6-23-87, Cl. 365-183.000.

Birnbaum, Milton; and Tucker, Armin W., deceased (by Tucker, Marsha A., legal representative), to United States of America, Air Force. Total internal reflection modulator/deflector. 4,669,831, 6-2-87, Cl. 350-381.000.

Birnel, Donald A.; and Manson, Kenneth G. Carpet banding capper. 4,656,755, 4-14-87, Cl. 33-526.000.

Birnstiel, Willi: *See*—
  Klos, Klaus-Peter; Lindemann, Karl-Heinz; and Birnstiel, Willi, 4,705,576, Cl. 148-6.200.

Biro, Alexander J., to Winchester Industries, Inc. Thermally insulated window sash construction for a casement window. 4,689,933, 9-1-87, Cl. 52-656.000.

Biron, David G.: *See*—
  Edwards, Brian E.; and Biron, David G., 4,690,551, Cl. 356-5.000.

Birring, Anmol S.: *See*—
  Kwun, Hegeon; Birring, Anmol S.; Singh, Gurvinder P.; Hendrix, Gary J.; and Alcazar, David G., 4,711,120, Cl. 73-119.00R.

Birrittella, Mark S.; and Seelbach, Walter C., to Motorola, Inc. Monolithic bipolar SCR memory cell. 4,635,087, 1-6-87, Cl. 357-38.000.

Birrittella, Mark S., to Motorola, Inc. Complex direct coupled transistor logic. 4,641,047, 2-3-87, Cl. 307-454.000.

Birrittella, Mark S.; Marley, Robert R.; and Seelbach, Walter C., to Motorola, Inc. ECL to TTL voltage level translator. 4,644,194, 2-17-87, Cl. 307-475.000.

Birrittella, Mark S., to Motorola, Inc. Gallium arsenide bipolar ECL circuit structure. 4,649,411, 3-10-87, Cl. 357-36.000.

Birrittella, Mark S., to Motorola Inc. Bipolar ram cell and process. 4,656,495, 4-7-87, Cl. 357-34.000.

Birrittella, Mark S.; Liaw, Hang M.; and Reuss, Robert H., to Motorola, Inc. Method of forming transistors with poly-sidewall contacts utilizing deposition of polycrystalline and insulating layers combined with selective etching and oxidation of said layers. 4,663,831, 5-12-87, Cl. 29-576.00E.

Birrittella, Mark S.; and Stipanuk, James J., to Motorola, Inc. Bipolar RAM cell. 4,697,251, 9-29-87, Cl. 365-154.000.

Birrittella, Mark S.; and Stipanuk, James J., to Motorola, Inc. Bipolar RAM cell. 4,701,882, 10-20-87, Cl. 365-154.000.

Birse, Alan D.; and King, Alan G., to Imperial Chemical Industries PLC. Method and apparatus for safer remotely controlled firing of ignition elements. 4,685,396, 8-11-87, Cl. 102-206.000.

Bircher Corporation, The: *See*—
  Abdelghani, Ali A., 4,708,127, Cl. 128-24.00A.

Birum, Gail H.; Mathis, Thomas C.; and Stolk, Richard D., to Monsanto Company. Polyester compositions containing a phthalimide. 4,639,480, 1-27-87, Cl. 524-104.000.

Birum, Gail H.; and Jansen, Richard F., to Akzo America Inc. Preparation of N-substituted arylsulfonamides. 4,713,489, 12-15-87, Cl. 564-90.000.

Birx, Daniel L.; and Reginato, Louis L., to United States of America, Energy. Electron beam accelerator with magnetic pulse compression and accelerator switching. 4,646,027, 2-24-87, Cl. 328-233.000.

Bis, Josef; and Petrzelka, Antonin, to Tovarny Strojirenske Techniky Koncern. Device for controlling movement of a copying roller. 4,709,434, 12-1-87, Cl. 12-77.000.

Bisacchi, Gregory S.; and Koster, William H., to E. R. Squibb & Sons, Inc. Acetylenic antibiotics. 4,654,426, 3-31-87, Cl. 549-548.000.

Bisaiji, Takashi, to Ricoh Company, Ltd. Image forming apparatus. 4,678,318, 7-7-87, Cl. 355-15.000.

Bisbing, Robert H., to Southco, Inc. Fastening device. 4,655,489, 4-7-87, Cl. 292-110.000.

Bisbing, Robert H., to Southco, Inc. Over-center toggle latch. 4,687,237, 8-18-87, Cl. 292-78.000.

Bisbing, Robert H., to Southco, Inc. Latch and hinge assembly. 4,693,187, 9-15-87, Cl. 108-69.000.

Bisbing, Robert H., to Southco, Inc. Lever latch. 4,693,503, 9-15-87, Cl. 292-210.000.

Bisbing, Robert H., to Southco, Inc. Draw pull latch. 4,705,308, 11-10-87, Cl. 292-108.000.

Bischof und Klein GmbH & Co.: *See*—
  Poppe, Josef, 4,637,062, Cl. 383-54.000.

Bischofberger, Jurg; and Lattion, Andre, to Rieter Machine Works Ltd. Open-end yarn piecer. 4,680,925, 7-21-87, Cl. 57-263.000.

Bischofberger, Jurg; and Feige, Manfred, to Rieter Machine Works, Ltd. Device for transporting cans. 4,714,153, 12-22-87, Cl. 198-457.000.

Bischofberger, Jurg: *See*—
  Lattion, Andre; Bischofberger, Jurg; Salvik, Walter; Stapfer, Jakob; and Schreiber, Manfred, 4,689,945, Cl. 57-263.000.

Bischofberger, Walter; Eicholzer, Heinz; and Talir, Jiri, to BBC Brown, Boveri & Company, Limited; and Graber, Werner. High-voltage switch. 4,636,599, 1-13-87, Cl. 200-144.0AP.

Bischofberger, Walter; Eichholzer, Heinz; Graber, Werner; Talir, Jiri; Hochspach, Edgar; and Luthi, Werner, to BBC Brown, Boveri & Company, Ltd. High-voltage switch with a closing resistor. 4,670,632, 6-2-87, Cl. 200-144.0AP.

Bischoff, Didier; Courteheuse, Gerard; and Renard, Pierre, to Institut Francais du Petrole. Apparatus for the liquid phase hydrotreatment of hydrocarbons in the presence of an expanded or ebullated catalyst bed. 4,639,354, 1-27-87, Cl. 422-140.000.

Bischoff, Edelbert; and Wetter, Gert, to Werner & Mertz GmbH. Acaricidal cleaning composition for controlling house dust mites and process of using. 4,666,940, 5-19-87, Cl. 514-544.000.

Bischoff, Erwin; Muller, Hartwig; Salcher, Olga; Berschauer, Friedrich; Scheer, Martin; de Jong, Anno; and Frobel, Klaus, to Bayer Aktiengesellschaft. Antibiotic for animal feeds. 4,670,260, 6-2-87, Cl. 424-121.000.

Bischoff, Gary: *See*—
  Wilson, Harold R.; Ottenjan, Gary; and Bischoff, Gary, 4,703,598, Cl. 52-238.100.

Bischoff, Gene L.; and Elly, James E., to Eastman Kodak Company. Method and apparatus for erasing a signal recorded on a magnetic disk. 4,714,969, 12-22-87, Cl. 360-66.000.

Bischoff, Gilbert: *See*—
  Boehm, Peter; Volz, Peter; Bischoff, Gilbert; Booten, Sigmund; Engert, Klaus; and Loew, Albin, 4,641,568, Cl. 91-369.00A.

Bischoff, Gregg C., to Spectrum Control, Inc. Monomer atomizer for vaporization. 4,696,719, 9-29-87, Cl. 202-205.000.

Bischoff, Hans-Georg; and Koch, Franz, to Saar-Gummiwerk GmbH. Process and device for the manufacture of connecting seams between overlapping segments made of elastomers or thermoplastic materials. 4,652,328, 3-24-87, Cl. 156-285.000.

Bischoff, Peter G.; Rauch, David J.; Retort, Vincent D.; and Osborne, John R., to Read-Rite Corporation. Thin film magnetic head with three superimposed coils. 4,69-,368, 9-15-87, Cl. 360-126.000.

Bisconte, Jean-Claude, to Institut National de la Sante et de la Recherche Medicale (INSERM). Modular apparatus for cell culture. 4,696,902, 9-29-87, Cl. 435-300.000.

Bisera, Jose; Carrington, James H.; and Weil, Max H., to Institute of Critical Care Medicine. Vascular interface. 4,638,811, 1-27-87, Cl. 128-673.000.

Bisgaard, Hans F.: *See*—
  Holm, Karl; and Bisgaard, Hans F., 4,647,224, Cl. 374-162.000.

Bish, James R.; McCartney, Charles P., Jr.; and Meadows, Clarence A., to General Motors Corporation. Electric storage battery. 4,683,180, 7-28-87, Cl. 429-130.000.

Bisha, Jon, to IMED Corporation. IV tube activator. 4,689,043, 8-25-87, Cl. 604-250.000.

Bishop, Arthur E.; and Roeske, Klaus J., to Bishop, Arthur E. Means for manufacturing components of rotary valves. 4,651,551, 3-24-87, Cl. 72-189.000.

Bishop, Arthur E. Power steering gear adjusting mechanism. 4,699,174, 10-13-87, Cl. 137-625.240.

Bishop, Arthur E.; and Roeske, Klaus J., to Bishop, Arthur E. Apparatus for manufacturing a master rack. 4,703,145, 10-27-87, Cl. 219-69.00R.

Bishop, Arthur E.; Roeske, Klaus J.; and Scott, David W. Method for making steering rack bars. 4,715,210, 12-29-87, Cl. 72-400.000.

Bishop, Bernard F., to Illinois Tool Works Inc. Belt for a cable drive system. 4,703,880, 11-3-87, Cl. 226-172.000.

Bishop, Daniel E., to United States of America, Army. Lever displacement gauge. 4,709,484, 12-1-87, Cl. 33-169.00R.

Bishop, David I.: *See*—
  Balkwill, Peter H.; Bishop, David I.; Pearson, Andrew D.; Sage, Ian C.; Gray, George W.; Lacey, David; Toyne, Kenneth J.; and McDonnell, Damien G., 4,695,131, Cl. 350-350.00R.

Bishop, Dolores; and Morris, Mark M. Protective facial mask. 4,671,271, 6-9-87, Cl. 128-206.110.

Bishop, F. Avery; and Leahy, Ronald S., to Sperry Corporation. Adaptive interference rejection for improved frequency hop detection. 4,638,493, 1-20-87, Cl. 375-1.000.

Bishop, F. Avery; Bennett, Steven L.; and Rushforth, Craig K., to Sperry Corporation. Bent sequence code generator. 4,685,132, 8-4-87, Cl. 380-46.000.

Bishop, Frank W. Doppler radar transceiver. 4,672,379, 6-9-87, Cl. 342-28.000.

Bishop, Gerald A. Hamburger broiler. 4,667,589, 5-26-87, Cl. 99-386.000.

Bishop, John A. Universally positionable book holder. 4,702,45 10-27-87, Cl. 248-447.200.

Bishop, John F., to Eastman Kodak Company. Poly(ethylene oxide) stripping agents for photographic products. 4,695,526, 9-22-87, Cl. 430-215.000.

Bishop, John H.: *See*—
  Dodds, Kathleen M.; and Bishop, John H., 4,664,350, Cl. 248-303.000.

Bishop, Kevin, to Bingo Experience/ARC. Molded magnetic bingo chip. 4,637,613, 1-20-87, Cl. 273-239.000.

Bishop, Kevin, to Bingo Experience/ARC. Molded bingo chip with magnetic structure secured therein. 4,676,509, 6-30-87, Cl. 273-239.000.

Bishop, Kevin. Drip trap. 4,702,755, 10-27-87, Cl. 55-418.000.

Bishop, Marshall E.; and Thewlis, Duane E. Method for making an inflatable mandrel. 4,707,205, 11-17-87, Cl. 156-110.100.

Bishop, Michael L.: *See*—
  Newman, Anthony W.; and Bishop, Michael L., 4,689,251, Cl. 427-220.000.

Bishop, Robert, to Beltronics, Inc. Grounding system for CCD imaging apparatus and the like. 4,649,424, 3-10-87, Cl. 357-84.000.

Bishop, Robert, to Beltronics, Inc. Method of and apparatus for discriminating sharp edge transitions produced during optical scanning of differently reflective regions. 4,697,088, 9-29-87, Cl. 250-561.000.

Bishop, Robert J. Hand-operated mixing device. 4,634,284, 1-6-87, Cl. 366-47.000.

Bishop, Robert R.: *See*—
  Price, Anthony G.; Bishop, Robert R.; and Campbell, Roy, 4,703,836, Cl. 188-71.400.

Bishop, Ross W.: *See*—
  Griffith, David W.; Lyon, Michael R.; Bishop, Ross W.; and Friery, Edward H., 4,663,677, Cl. 360-71.000.

Bishop, Stephen R., to Texaco Limited. Spill reducing system. 4,644,983, 2-24-87, Cl. 141-387.000.

Bishop, Thomas R.; Peil, Archie W.; and Foreman, Arnal B., Jr., to Bowen Tools, Inc. Casing scraper. 4,648,447, 3-10-87, Cl. 166-173.000.

hop, Thomas R.; Kovar, Wayne A.; and Roque, Clyde D., to Bowen Tools, Inc. Lock-down releasing spear assembly. 4,706,745, 11-17-87, l. 166-98.000.

hop, Timothy E.: *See—*
Zimmerman, John M.; Noren, Gerry K.; and Bishop, Timothy E., 4,690,501, Cl. 350-96.290.
Zimmerman, John M.; and Bishop, Timothy E., 4,690,502, Cl. 350-96.290.

hop, William V., to Eaton Corporation. Quick connector for plastic re valve extensions. 4,664,153, 5-12-87, Cl. 137-798.000.

hop, Willis E., to Avery International Corporation. Backing free orrection tape and dispenser. 4,676,861, 6-30-87, Cl. 156-527.000.

hop-Wisecarver Corporation: *See—*
Wisecarver, Warren R., 4,669,934, Cl. 410-151.000.

opbarn Limited: *See—*
Franklin, Kenneth W., 4,649,740, Cl. 73-49.300.
Franklin, Kenneth W., 4,671,101, Cl. 73-49.300.

ach, Bruno. Robot with power laser beam. 4,677,274, 6-30-87, Cl. 9-121.0LV.

ach, Luciano. Robot carrier structure. 4,669,390, 6-2-87, Cl. 4-248.000.

ach, Luciano. Robot carrier structure. 4,702,661, 10-27-87, Cl. 4-460.000.

gnano, Alan G.: *See—*
Belanger, Robert J.; and Bisignano, Alan G., 4,704,319, Cl. 428-209.000.

up, Andrew L. Fish skin lure. 4,637,160, 1-20-87, Cl. 43-42.330.

k, S.A.: *See—*
Roquet-Jalmar, Jorge C., 4,677,124, Cl. 514-737.000.

arck, Otto H., to RCA Corporation. CMOS input level shifting ffer circuit. 4,707,623, 11-17-87, Cl. 307-475.000.

Bitter GmbH & Co. KG: *See—*
Schmitt, Helwig; and Scharf, Alois, 4,646,757, Cl. 130-27.00R.

n, Gunter; Linkat, Norbert; and Thewalt, Klaus, to Dynamit Nobel ktiengesellschaft. Process for the preparation of dichloroisonilocarboxylic acid esters. 4,652,671, 3-24-87, Cl. 560-168.000.

n-Werke Bahre & Greten GmbH & Co. KG: *See—*
Heller, Wolfgang; Ruckert, Peter; and Wiemann, Dieter, 4,636,159, Cl. 425-148.000.

to, Sylvette; Blanc, Jean-Philippe; Bodin, Bernard; and Poujois, bert, to Commissariat a l'Energie Atomique. Addressing circuit a matrix display incorporating shift registers formed from static emories and addressing process using such a circuit. 4,677,594, 0-87, Cl. 365-240.000.

ng, Bernhard; and Bornefeld, Klaus, to Rheinmetall GmbH. Fin bilized subcaliber shell of large length to diameter ratio. 4,638,738, 27-87, Cl. 102-516.000.

ng, Bernhard; Gersbach, Klaus; and Romer, Rudolf, to Rheinetall GmbH. Impact projectile. 4,708,064, 11-24-87, Cl. 102-517.000.

ng, Bernhard: *See—*
Becker, Wilfried; and Bisping, Bernhard, 4,662,280, Cl. 102-364.000.
Wallow, Peter; and Bisping, Bernhard, 4,671,180, Cl. 102-517.000.
Wallow, Peter; Gersbach, Klaus; Simon, Walter; Bisping, Bernhard; Montier, Patrick; Moreau, Pierre A.; and Sauvestre, Jean-Claude, 4,702,172, Cl. 102-521.000.
Wallow, Peter; and Bisping, Bernhard, 4,706,569, Cl. 102-518.000.

l, Steve F. Waterbed and holder assembly for use therewith. 83,602, 8-4-87, Cl. 5-451.000.

l, Steve F. Waterbed and holder assembly for use therewith. 12,260, 12-15-87, Cl. 5-451.000.

ll Inc.: *See—*
loss, Michael S.; and McDowell, David E., 4,644,605, Cl. 15-329.000.

ll, Irving J. Citrus fruit peeler. 4,683,655, 8-4-87, Cl. 30-123.700.

tt, Glenn, to B. J. Mountain, Inc. Padded rail cap. 4,703,531, 3-87, Cl. 5-508.000.

nger, Werner D., to International Business Machines Corporation. ocess for automatically regenerating copper chloride etch solutions. 4,696,717, 9-29-87, Cl. 156-642.000.

n, Flavio, to Necchi Societa per Azioni. Automatic exchange of size in an automatic sewing unit. 4,712,494, 12-15-87, Cl. 2-121.120.

nette, Noel G.: *See—*
Reuss, Gerald; Gwash, Kevin; Gay, Charles; and Bissonette, Noel G., 4,664,665, Cl. 623-6.000.

nnette, Harold S., to Dowell Schlumberger Incorporated. Stage menting apparatus. 4,669,541, 6-2-87, Cl. 166-154.000.

, Thomas C., to Du Pont de Nemours, E. I., and Company. ocess for electrolysis of silica-containing brine. 4,648,949, 3-10-87, 204-98.000.

rkey, Donald S.: *See—*
Beckwith, Paul B.; Bistarkey, Donald S.; Pohedra, Joseph J.; and Trimble, Donald E., 4,702,698, Cl. 434-2.000.
Beckwith, Paul B., Jr.; and Bistarkey, Donald S., 4,682,160, Cl. 340-729.000.

ne, Raymond G., Jr.; Maurer, Elmer W.; Smith, Frank D.; and nfield, Warner M., to United States of America, Agriculture. ntibacterial fatty anilides. 4,663,353, 5-5-87, Cl. 514-617.000.

ian, Bruce: *See—*
Blackburn, George L.; Babayan, Vigen K.; Bistrian, Bruce; Moldawer, Lyle L.; and Cotter, Richard, 4,703,062, Cl. 514-552.000.

ick, Eugene J.: *See—*
Abrahamsson, Axel B.; Bistrick, Eugene J.; Yera, Harvey J.; and Wieczorek, Margaret, 4,671,709, Cl. 407-16.000.

Biter, William J.; and Ceasar, Gerald P., to Standard Oil Company, The. Multiple cell, two terminal photovoltaic device employing conductively adhered cells. 4,686,323, 8-11-87, Cl. 136-249.000.

Biter, William J.: *See—*
Basol, Bulent M.; and Biter, William J., 4,647,711, Cl. 136-256.000.

Bitha, Panayota; Child, Ralph G.; Hlavka, Joseph J.; and Lin, Yang-I, to American Cyanamid Company. Platinum complexes of aliphatic tricarboxylic acids. 4,665,210, 5-12-87, Cl. 556-137.000.

Bitha, Panayota; Child, Ralph G.; Hlavka, Joseph J.; and Lin, Yang-I, to American Cyanamid Company. Platinum complexes of amines with dibasic acids. 4,675,336, 6-23-87, Cl. 514-492.000.

Bitha, Panayota; Child, Ralph G.; Hlavka, Joseph J.; and Lin, Yang-I, to American Cyanamid Company. Heterocyclic-1,2-diamine platinum complexes. 4,716,157, 12-29-87, Cl. 514-184.000.

Bitha, Panayota: *See—*
Hlavka, Joseph J.; Lin, Yang-I; and Bitha, Panayota, 4,670,458, Cl. 514-492.000.
Hlavka, Joseph J.; Child, Ralph G.; Bitha, Panayota; and Lin, Yang-i, 4,703,115, Cl. 536-55.000.

Bither, David S., to Aetna Telecommunications Laboratories. Link controller. 4,646,292, 2-24-87, Cl. 370-85.000.

Bither, Peter G., to Hercules Incorporated. Fibrous inner web for sheet vinyl flooring goods. 4,680,223, 7-14-87, Cl. 428-280.000.

Bither, Tom A., Jr., to Du Pont de Nemours, E. I., and Company. Process for oxidation of N-butane to maleic anhydride. 4,699,985, 10-13-87, Cl. 549-260.000.

Bitko, Sheldon S., to Fifth Dimension Inc. Position insensitive shock sensor. 4,683,355, 7-28-87, Cl. 200-61.470.

Bito, Hiroyasu, to Casio Computer Co., Ltd. Card identification system. 4,684,791, 8-4-87, Cl. 235-380.000.

Bitoh, Hiroyasu, to Casio Computer Co., Ltd. Embossing imprinter including an electronic printer. 4,676,676, 6-30-87, Cl. 400-120.000.

Bitonti, Frank E., to AM General Corporation. Automated vehicle tire pressurization system. 4,641,698, 2-10-87, Cl. 152-416.000.

Bitrolf, Ehrenfried: *See—*
Diener, Jorg; and Bitrolf, Ehrenfried, 4,640,124, Cl. 73-116.000.

Bitronics, Inc.: *See—*
Brosh, Amnon; and Landmann, Wolf S., 4,644,570, Cl. 377-17.000.

Bitsch, Harald: *See—*
Kaufmann, Karl-Ernst; Saeftel, Josef-Paul; Bitsch, Harald; and Oldewurtel, Otto, 4,634,078, Cl. 242-158.00R.

Bitsch, Roland, to Merck Patent Gesellschaft mit beschrankter Haftung. Method, reagent and kit for the determination of nitrate ions. 4,690,902, 9-1-87, Cl. 436-110.000.

Bitsch, Willy, to Rohm GmbH. Foamable synthetic resin compositions. 4,665,104, 5-12-87, Cl. 521-117.000.

Bitschkus, Horst; Hofmann, Manfred; and Nelles, Uwe, to Metzeler Kautschuk GmbH. Pretensionable and hydraulically damped mounting element. 4,667,942, 5-26-87, Cl. 267-140.100.

Bittar, Edward S.: *See—*
Sheppard, Joseph E.; Dell, Paul C.; Gearen, Peter F.; Bittar, Edward S.; and Miller, Gary J., 4,643,177, Cl. 128-84.00C.

Bitter, Johan G. A., to Shell Oil Company. Process for the separation of an organic liquid mixture. 4,670,151, 6-2-87, Cl. 210-641.000.

Bitter, Lowell E., to Donnelly Corporation. Process for making a conductively coated glass member and the product thereof. 4,650,557, 3-17-87, Cl. 204-192.120.

Bitter, Lowell E., to Donnelly Corporation. Conductive coating treatment of glass sheet bending process. 4,655,811, 4-7-87, Cl. 65-60.510.

Bitterly, Jack G. Structural member. 4,685,253, 8-11-87, Cl. 52-2.000.

Bittler, Dieter: *See—*
Laurent, Henry; Bittler, Dieter; Beier, Sybille; and Elger, Walter, 4,681,875, Cl. 514-182.000.

Bittner, Charles W., to Precision Automation Co., Inc. Method and apparatus for packaging expansile articles. 4,706,440, 11-17-87, Cl. 53-438.000.

Bittner, Friedrich; Hinrichs, Walter; Hovestadt, Herbert; Lange, Ludwig; and Splett, Erich, to Degussa Aktiengesellschaft. Process for the production of sodium polysulfides from the elements sodium and sulfur. 4,640,832, 2-3-87, Cl. 423-562.000.

Bittner, Hans-Joachim, to H. Putsch GmbH & Comp. Method for exchanging the blade receivers in disc cutter machines and disc cutter machines for carrying out the method. 4,674,168, 6-23-87, Cl. 29-402.080.

Bittner, Hans-Joachim, to H. Putsch GmbH & Comp. Disc cutter machine, in particular for cutting sugar beet. 4,683,790, 8-4-87, Cl. 83-356.300.

Bittner, Reinhold, to Carl-Zeiss-Stiftung. Optical arrangement having a concave mirror or concave grating. 4,707,056, 11-17-87, Cl. 350-96.120.

Bittner, Reinhold: *See—*
Blumentritt, Martin; Reule, Alfred; and Bittner, Reinhold, 4,703,472, Cl. 370-3.000.
Machler, Meinrad; Bittner, Reinhold; Gluck, Franz; Schlemmer, Harry; and Sachse, Richard, 4,644,632, Cl. 29-469.000.
Machler, Meinrad; Gluck, Franz; Schlemmer, Harry; and Bittner, Reinhold, 4,655,555, Cl. 350-432.000.

Bittner, Ronald D. Convertible water bed. 4,680,820, 7-21-87, Cl. 5-451.000.

Bitton, Georges, to Rexroth-Sigma. Clamping of machine casings formed from at least two parts one of which is made from a metal of relatively low hardness. 4,643,044, 2-17-87, Cl. 74-606.00R.

Bitumen Development Corporation Limited: *See—*
Angelov, Georgi; and Shibley, Paul W. M., 4,634,520, Cl. 208-309.000.

Bitzel, Hubert, to Trumpf GmbH & Co. Method and apparatus for nibbling cutouts with rectilinear and curvilinear contours by rotation of tooling with cutting surfaces of rectilinear and curvilinear contours and novel tooling therefor. 4,696,211, 9-29-87, Cl. 83-49.000.

Bitzer, Donald L.: *See—*

Andersen, David M.; Bitzer, Donald L.; Rader, Robert K.; Sherwood, Bruce A.; and Tucker, Paul T., 4,636,174, Cl. 434-335.000.

Bitzer, Thomas N.: *See—*

Gottwald, William H.; Bandak, Michel N.; and Bitzer, Thomas N., 4,658,941, Cl. 188-377.000.

Bivens, Ernest: *See—*

Niehaus, Gerald; and Bivens, Ernest, 4,702,660, Cl. 414-95.000.

Bivens, Jon A.; and Tyler, Stephen L., to Toro Company, The. Sprinkler head drain valve. 4,699,321, 10-13-87, Cl. 239-204.000.

Bivetto, Andrew J.: *See—*

Lowin, David A.; Fayram, Richard A.; and Bivetto, Andrew J., 4,636,202, Cl. 604-236.000.

Bivona, Inc.: *See—*

Shapiro, Seymour W., 4,653,514, Cl. 128-778.000.

Biwi S.A.: *See—*

Bourquard, Pierre; and Bourquard, Yves, 4,686,783, Cl. 40-304.000.

Bixby, James A., to Brooktree Corporation. Apparatus for converting data between analog and digital values. 4,658,240, 4-14-87, Cl. 340-347.0AD.

Bixby, James L.: *See—*

Humphreys, Paula L.; Dietsche, Thomas J.; and Bixby, James L., 4,701,532, Cl. 546-345.000.

Bixby, Mikel J.: *See—*

Carlson, Chesley F.; and Bixby, Mikel J., 4,664,511, Cl. 355-91.000.

Bixler, Craig A.; and Triner, Irvin R., to Molex Incorporated. Electrical connector and method of assembly. 4,713,023, 12-15-87, Cl. 439-393.000.

Bixler, Craig A.: *See—*

Triner, Irvin R.; and Bixler, Craig A., 4,679,879, Cl. 439-425.000.

Bixler, Kenneth D., to Packaging Corporation of America. Beak-type carton lock. 4,715,529, 12-29-87, Cl. 229-2.50R.

Bixler, Richard M.: *See—*

Katzman, James A.; Bartlett, Joel F.; Bixler, Richard M.; Davidow, William H.; Despotakis, John A.; Graziano, Peter J.; Green, Michael D.; Greig, David A.; Hayashi, Steven J.; Mackie, David R.; McEvoy, Dennis L.; Treybig, James G.; and Wierenga, Steven W., 4,639,864, Cl. 364-200.000.

Katzman, James A.; Bartlett, Joel F.; Bixler, Richard M.; Davidow, William H.; Despotakis, John A.; Graziano, Peter J.; Green, Michael D.; Greig, David A.; Hayashi, Steven J.; Mackie, David R.; McEvoy, Dennis L.; Treybig, James G.; and Wierenga, Steven W., 4,672,535, Cl. 364-200.000.

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Bizard, Andre, to Technos et Compagnie. Methods and devices for fastening bundles of tubes together. 4,702,311, 10-27-87, Cl. 165-162.000.

Bizer, Jerry L.; and Carrig, Raymond D., Jr. Instrument for determining the setting of a lens edger device to produce a properly sized lens. 4,707,929, 11-24-87, Cl. 33-507.000.

Biziere, Kathleen: *See—*

Wermuth, Camille G.; Biziere, Kathleen; and Davi, Horace, 4,677,106, Cl. 514-247.000.

Bizjak, John F., to Eastman Kodak Company. Binarily related variable rate recorder. 4,714,967, 12-22-87, Cl. 360-48.000.

Bizouard, Alain; and Dubost, Gerard, to Thomson-CSF. Plane periodic antenna. 4,652,889, 3-24-87, Cl. 343-792.500.

Bizzigotti, Richard A.: *See—*

Martin, Stephen A.; Landis, Terry L.; and Bizzigotti, Richard A., 4,668,216, Cl. 604-30.000.

Bjareklint, Ake; and Simonsson, Daniel, to ElectroCell AB. Electrode chamber unit for an electro-chemical cell having a porous percolation electrode. 4,692,229, 9-8-87, Cl. 204-151.000.

Bjarnason, Jon: *See—*

Mariusson, Oskar; and Bjarnason, Jon, 4,716,188, Cl. 524-268.000.

Bjelk, Nils: *See—*

Norrgren, Bo; and Bjelk, Nils, 4,713,545, Cl. 250-338.000.

Bjerkvoll, Bjorn S.: *See—*

Gudbrandsen, Gunnar F.; Skjerven, Perkristian; and Bjerkvoll, Bjorn S., 4,643,098, Cl. 102-513.000.

Bjorck, Conny; and Sigurdsson, Per A., to Sicomant AB Juteskarsgatan 38. Method of finely crushing particles of material in an impact mill and apparatus for performing the method. 4,697,743, 10-6-87, Cl. 241-5.000.

Bjorheden, Orvar: *See—*

Flyborg, Nils O.; and Bjorheden, Orvar, 4,694,645, Cl. 60-221.000.

Bjorhn, Gunnar. String tensioning device for use on rackets for ball games. 4,662,632, 5-5-87, Cl. 273-73.00D.

Bjork, Anders K.; and Christensson, Erik G., to AB Ferrosan. Method of treating aggressive behavior and psychotic conditions employing 1-piperazinocarboxylates. 4,656,175, 4-7-87, Cl. 514-255.000.

Bjork, Jan; and Svensson, Sven G. Arming device for sea mines. 4,708,062, 11-24-87, Cl. 102-420.000.

Bjork, Nils A. N.; Sandstrom, Erland T.; Stenberg, Johan E.; and Stiblert, Lars B., to Sagax Instrument AB. Ellipsometric method and apparatus. 4,647,207, 3-3-87, Cl. 356-369.000.

Bjork, Nils A. N.; Sandstrom, Erland T.; Stenberg, Johan E.; and Stiblert, Lars B., to SAGAX Instrument AB. Ellipsometric method and apparatus for studying physical properties of the surface of a testpiece. 4,655,595, 4-7-87, Cl. 356-369.000.

Bjorkheim, Pekka. Scrap shearer. 4,660,451, 4-28-87, Cl. 83-527.000.

Bjorklund, Bjorn, to Flakt AB. Method and apparatus for keeping railway switches free from snow. 4,674,718, 6-23-87, Cl. 246-428.000.

Bjorklund, Bjorn, to AB Svenska Flaktfabriken. Apparatus for deicing exterior parts of a railway vehicle. 4,683,870, 8-4-87, Cl. 126-271.100.

Bjorklund, Evert G. Assembleable box. 4,671,422, 6-9-87, Cl. 220-4.00F.

Bjorklund, Henry S.; Cisneros, Daniel N.; and Yardy, Raymond, to International Business Machines Corporation. Multi-laser optical signal recorders. 4,647,155, 3-3-87, Cl. 350-252.000.

Bjorkman, Ake; and Jonsson, Gunther, to Lumalampan Aktiebolag. Arrangement in apparatus for the combustion of waste gases. 4,646,660, 3-3-87, Cl. 110-210.000.

Bjorkman, Ake, to Lumalampan Aktiebolag. Arrangement in electric discharge lamps. 4,688,874, 8-25-87, Cl. 439-56.000.

Bjorkman, Ake, to Lumalampan Aktiebolag. Compact low pressure mercury vapor discharge lamp. 4,689,521, 8-25-87, Cl. 313-493.000.

Bjorkman, Harry K., Jr.; and Carr, Peter, to Energy Development Associates, Inc. Formation of dense chlorine hydrate. 4,678,656, 7-7-87, Cl. 423-500.000.

Bjorkman, Rune, to Pharmacia AB. Apparatus for carrying out analysis. 4,642,220, 2-10-87, Cl. 422-101.000.

Bjorkman, Rune: *See—*

Axen, Rolf E.; Kaj, Goran L.; and Bjorkman, Rune, 4,708,932, Cl. 435-7.000.

Bjorkqvist, Nils-Gunnar: *See—*

Melhus, Ulf; Olsson, Mats; Bjorkqvist, Nils-Gunnar; Bjorn, Lars-Erik; and Taylor, Dennis, 4,688,465, Cl. 86-20.140.

Bjorlin, Anders; Edberg, Thomas; Sjoblom, Eva; and Westling, Anders, to Swedspan AB. Suspension of ammonium carbonate and/or ammonium hydrogen carbonate of improved stability and its use. 4,670,184, 6-2-87, Cl. 252-311.000.

Bjorn, Lars-Erik: *See—*

Melhus, Ulf; Olsson, Mats; Bjorkqvist, Nils-Gunnar; Bjorn, Lars-Erik; and Taylor, Dennis, 4,688,465, Cl. 86-20.140.

Bjornberg, Sten G., to Minitube Aktiebolag. Fever thermometer protector. 4,652,145, 3-24-87, Cl. 374-194.000.

Bjornberg, Thomas, to Infrarodteknik AB. Infra-red radiation device. 4,685,762, 8-11-87, Cl. 350-1.100.

Bjorndal, Paul M.; Knapp, Julius Z.; and Zeiss, John C., to Schering Corporation. Inspection device. 4,676,650, 6-30-87, Cl. 356-427.000.

Bjornson, Geir; Klendworth, Douglas D.; Gardner, Lloyd E.; and Farha, Floyd E., Jr., to Phillips Petroleum Company. Hydrotreating process employing a novel catalytic composition. 4,655,906, 4-7-87, Cl. 208-217.000.

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Bjorshol, Kolbjorn. Conveyer apparatus for fishing line having snoods along its length. 4,638,583, 1-27-87, Cl. 43-4.000.

Bjorshol, Kolbjorn. Apparatus for hooking and possibly baiting of a fishing line. 4,641,452, 2-10-87, Cl. 43-4.000.

BKS Company: *See—*

Cassel, Thomas R.; and Cassel, Scott T., 4,660,862, Cl. 285-114.000.

Blaas, Karl; and Nipp, Hansjorg, to Hilti Aktiengesellschaft. Hand-held tool with vibration dampening. 4,711,308, 12-8-87, Cl. 173-162.00R.

Blach, Josef A. Housing section for a twin screw shaft machine. 4,702,695, 10-27-87, Cl. 432-154.000.

Blach, Thomas, to Biomed-Electronic GMBH & Co. Medizinischer Geratebau KG. Ionizing chamber for gaseous oxygen. 4,686,370, 8-11-87, Cl. 250-423.00R.

Blachman, Marc W.: *See—*

Tsou, Dean T.; Blachman, Marc W.; and Burrington, James D., 4,681,968, Cl. 558-361.000.

Black, Alee R. Rod support system having end brackets and auxiliary support brackets. 4,694,532, 9-22-87, Cl. 16-94.00D.

Black, Alfred T.: *See—*

Saur, Joseph W.; Reynolds, Charles P.; and Black, Alfred T., 4,710,472, Cl. 435-287.000.

Black, Allen C., to AMP Incorporated. Expandable reel assembly. 4,702,429, 10-27-87, Cl. 242-71.800.

Black, Alvin. Stove with multiple chambers. 4,658,801, 4-21-87, Cl. 126-77.000.

Black, Angelique M.: *See—*

Hung, William M.; and Black, Angelique M., 4,660,060, Cl. 346-220.000.

Black, Archie L.: *See—*

Berry, Joe R.; Black, Archie L.; and Hamilton, William R., 4,647,099, Cl. 294-103.100.

Black, Charles E., III; and Halstead, Raymond T., to Indak Manufacturing Corp. Electrical switch having flexible printed circuit connector cable. 4,678,249, 7-7-87, Cl. 439-77.000.

Black, Charles E., III: *See—*

Habecker, John W.; and Black, Charles E., III, 4,691,086, Cl. 200-159.00R.

Black Clawson Company, The: *See—*

Chupka, David E.; Gilkey, Mark W.; Winkler, Jimmy L.; and Markham, Larry D., 4,663,030, Cl. 209-306.000.

Creagan, Richard W., 4,702,800, Cl. 162-300.000.

Black & Decker Inc.: *See—*

Abbratozzato, Salvatore R.; Walter, Richard T.; and Wheeler, Dale K., 4,682,066, Cl. 310-154.000.

Bone, Daniel, 4,693,009, Cl. 30-392.000.

Chaconas, Peter C., 4,690,024, Cl. 83-852.000.

- Dibbern, John E., Jr.; and Moores, Gregory E., 4,684,774, Cl. 200-275.000.
- George, William A., 4,635,502, Cl. 74-625.000.
- Grossmann, Horst; Kalbacher, Klaus; Kolesch, Claus; and Schekulin, Karl, 4,657,088, Cl. 173-13.000
- Hernandez, Jean R., 4,672,292, Cl. 320-2.000.
- House, Lawrence E., II; and O'Connor, William H., 4,677,362, Cl. 320-2.000.
- Hurn, Richard L.; and Sell, Michael R., 4,716,352, Cl. 320-2.000.
- Huxley, Edward J., 4,648,464, Cl. 172-36.000.
- Judge, Alfred H., 4,667,865, Cl. 227-109.000.
- Koehler, Heinrich P.; and Dixon, John R., 4,710,071, Cl. 408-133.000.
- Lessig, William R., III; Wheeler, Dale K.; Bailey, R. Roby, Jr.; and Smith, Stephen W., 4,649,245, Cl. 200-157.000.
- Miller, Walter E., 4,701,599, Cl. 219-544.000.
- O'Hara, Frank; and Miller, John W., 4,647,260, Cl. 408-241.00S.
- Ostrelich, Michael J., 4,688,340, Cl. 38-90.000.
- Overy, Colin, 4,641,762, Cl. 220-81.00R.
- Rose, Neil, 4,674,257, Cl. 52-743.000.
- Ryckman, William D.; and Gordon, Walter H., 4,684,788, Cl. 219-413.000.
- Saeed, Abdul, 4,707,910, Cl. 29-596.000.
- Sanders, Anthony J., 4,715,732, Cl. 384-320.000.
- Secoura, Ralph A., 4,677,329, Cl. 310-71.000.
- Smith, Peter B., 4,648,608, Cl. 279-1.00K.
- Snaddon, Robert W. L.; and Dietz, Peter W., 4,654,054, Cl. 55-131.000.
- Verdier, Alain, 4,703,852, Cl. 206-349.000.
- Wilson, Peter H.; and Bayles, Peter W., 4,668,855, Cl. 219-370.000.
- , Elizabeth, executrix: *See—*
  - Black, Seymour, deceased, 4,708,241, Cl. 206-63.300.
- Gold Development Corporation: *See—*
  - Mestieri, Renzo, 4,698,968, Cl. 60-372.000.
- Gold Pump & Supply, Inc.: *See—*
  - Bair, Michael L., 4,668,117, Cl. 403-266.000.
- , James B., to GTE Communication Systems Corporation. Con- l circuit for a centrex attendant console interface. 4,685,103, -87, Cl. 370-58.000.
- , James B., to GTE Communication Systems Corporation. Ar- gement for transferring data to a centrex. 4,706,276, 11-10-87, Cl. -242.000.
- , James B., to Gte Communication Systems. Interface circuit for nsmitting command codes to an attendant console. 4,706,277, 10-87, Cl. 379-242.000.
- , James B., to GTE Communication Systems. Interface circuit for nsmitting keycodes to a CENTREX. 4,706,278, 11-10-87, Cl. -242.000.
- , James B., to GTE Communication Systems Corporation. Ar- gement for initializing a CENTREX console interface circuit. 06,279, 11-10-87, Cl. 379-279.000.
- , James R.: *See—*
  - dams, Victor J.; Black, James R.; and Gempe, Horst A., 4,645,551, Cl. 156-82.000.
- , Jerry R.: *See—*
  - risio, Raymond A., Jr.; and Black, Jerry R., 4,660,479, Cl. 111-2.000.
- Jimmy C.; and Roberts, Bruce E., to Harris Corporation. Multilayer, multiple-phase titanium/nitrogen adhesion/diffusion bar- layer structure for gold-base microcircuit interconnection. 02,967, 10-27-87, Cl. 428-620.000.
- Jimmy C.: *See—*
  - oberts, Bruce E.; Black, Jimmy C.; and Matlock, Dyer A., 4,713,260, Cl. 437-238.000.
  - oberts, Bruce E.; Black, Jimmy C.; and Matlock, Dyer A., 4,716,071, Cl. 428-209.000.
- John B. Jet pump with reverse flow removal of injection nozzle. 8,893, 4-21-87, Cl. 166-68.000.
- John W., to Standex International Corporation. Wheel bracket nting structure. 4,709,444, 12-1-87, Cl. 16-31.00A.
- Karl-Heinz; and Schuchardt, Gunter, to Blaupunkt-Werke bH. Picture tube screen grid potential control. 4,692,669, 9-8-87, 315-381.000.
- Kenneth R. Animal restraint apparatus and method. 4,693,212, -87, Cl. 119-103.000.
- Larry J.; and Clemens, James A., to Eli Lilly and Company. atment of mammary cancer. 4,656,187, 4-7-87, Cl. 514-422.000.
- Maurice. Foot wear dressing aid. 4,637,533, 1-20-87, Cl. 112.000.
- Michael D.: *See—*
  - per, Douglas E.; and Black, Michael D., 4,682,828, Cl. 439-92.000.
- Randy D.; and Tomczak, Walter F. Protective helmet, chin cup, face guard. 4,692,947, 9-15-87, Cl. 2-421.000.
- Richard L.: *See—*
  - erly, Dale L.; Black, Richard L.; and Podiak, Richard S., 4,643,688, Cl. 445-3.000.
- Robert H.; Wilson, John M.; and Brown, James M., to Hallibur- Company. Method of recovering hydrocarbons from subterra- formations. 4,670,165, 6-2-87, Cl. 252-8.551.
- Robert H.: *See—*
  - rd, Audis C.; Morris, Robert J.; Black, Robert H.; and Weaver, Jimmie D., Jr., 4,661,321, Cl. 422-111.000.
- Robert J.; Brown, Norman H.; and Paradise, Alfred J. Compos- aulking. 4,654,250, 3-31-87, Cl. 428-195.000.
- Black, Roger A., to Safety Container Corp. Tamper resistant package. 4,653,643, 3-31-87, Cl. 206-528.000.
- Black, Seymour, deceased (by Black, Elizabeth, executrix), to American Cyanamid Company. Suture package. 4,708,241, 11-24-87, Cl. 206-63.300.
- Black, Stephen J.; Hitzigrath, Richard; Rosenblatt, Arnold; and Grundy, Douglas H., to Grumman Aerospace Corp. Fuel/auxiliary oil thermal management system. 4,705,100, 11-10-87, Cl. 165-40.000.
- Black, Todd W. Steering wheel cover. 4,685,499, 8-11-87, Cl. 150-52.00M.
- Black, William B., to Celanese Corporation. Self-crimping polyester yarn. 4,661,404, 4-28-87, Cl. 428-369.000.
- Black, William C.: *See—*
  - Newcomb, Russell R.; and Black, William C., 4,668,936, Cl. 340-347.0AD.
- Black, William E.: *See—*
  - Betts, William S., Jr.; Pickering, J. Larry; and Black, William E., 4,673,548, Cl. 376-362.000.
- Blackaby, Barry G.: *See—*
  - Carll, Richard T.; and Blackaby, Barry G., 4,654,640, Cl. 340-568.000.
  - Carll, Richard T.; and Blackaby, Barry G., 4,688,183, Cl. 364-554.000.
- Blackall, Frederick S., IV: *See—*
  - Sanchez-Caldera, Luis E.; Suh, Nam P.; Chun, Jung-Hoon; Lee, Arthur K.; and Blackall, Frederick S., IV, 4,706,730, Cl. 164-135.000.
- Blackbourn, Inc.: *See—*
  - Johnson, Breck J.; and Canfield, George D., 4,641,750, Cl. 206-387.000.
- Blackburn, Brian: *See—*
  - Roberts, Gareth G.; Blackburn, Brian; Petty, Michael C.; and Holcroft, Brian, 4,645,693, Cl. 427-402.000.
- Blackburn, Dennis R., and Pelsor, August J., to Wellman Thermal Systems Corporation. Method and apparatus for controlling the glow discharge process. 4,700,315, 10-13-87, Cl. 364-477.000.
- Blackburn, Donald, to Oak Ridge Systems, Inc. Device for improving the ignition of fuel-air mixtures in internal combustion engines. 4,646,695, 3-3-87, Cl. 123-256.000.
- Blackburn, Donald, to Oak Ridge Systems, Inc. Device for improving the ignition of fuel-air mixtures in internal combustion engines. 4,696,269, 9-29-87, Cl. 123-256.000.
- Blackburn, Donald H.; and Treiber, Fritz F., to Hobart Corporation. Knife roll assembly for a meat tenderizer. 4,660,252, 4-28-87, Cl. 17-26.000.
- Blackburn, Douglas; Feldman, Albert; and Lagakos, Nicholas, to United States of America, Navy. Pressure and temperature insensitive glass and optical coatings and fibers therefrom. 4,709,987, 12-1-87, Cl. 350-96.340.
- Blackburn, George L.; Babayan, Vigen K.; Bistrian, Bruce; Moldawer, Lyle L.; and Cotter, Richard, to Baxter Travenol Laboratories, Inc. Parenteral nutrition with medium and long chain triglycerides. 4,703,062, 10-27-87, Cl. 514-552.000.
- Blackburn, James R., to Jim Blackburn Designs, Inc. Handle bar mounted quick disconnect bottle cage. 4,640,449, 2-3-87, Cl. 224-41.000.
- Blackburn, Mark A.: *See—*
  - Rikard, Luther O.; and Blackburn, Mark A., 4,660,752, Cl. 226-95.000.
- Blackburn, Martin J.; and Smith, Michael P., to United Technologies Corporation. Titanium aluminum alloys containing niobium, vanadium and molybdenum. 4,716,020, 12-29-87, Cl. 420-418.000.
- Blackburn, Peggy A.: *See—*
  - Goel, Anil B.; Tufts, Timothy A.; and Blackburn, Peggy A., 4,640,969, Cl. 528-73.000.
  - Goel, Anil B.; Grimm, Robert A.; Blackburn, Peggy A.; and Richards, Harvey J., 4,657,815, Cl. 428-403.000.
- Blackburn, Robert S., to United States of America, Energy. Adapter plate assembly for adjustable mounting of objects. 4,687,165, 8-18-87, Cl. 248-274.000.
- Blackburn, Ronald, to Sundstrand Corporation. Method and apparatus for starting a gas turbine engine. 4,693,073, 9-15-87, Cl. 60-39.020.
- Blackburn, Tom L., to GTE Communication Systems Corporation. Apparatus for locating faults in a carrier subscriber communication system. 4,642,426, 2-10-87, Cl. 370-13.100.
- Blackburn, Tom L., to GTE Communication Systems Corporation. Method for locating faults in a carrier subscriber communication system. 4,658,395, 4-14-87, Cl. 370-13.000.
- Blackburn, William P.: *See—*
  - Ambrose, Ronald R.; Blackburn, William P.; Porter, Samuel, Jr.; and Waite, Nancy J., 4,699,814, Cl. 427-407.100.
  - Chang, Wen-Hsuan; Blackburn, William P.; Prucnal, Paul J.; and Dufford, Edward L., 4,684,697, Cl. 525-100.000.
  - Dowbenko, Rostyslaw; Singer, Debra L.; Blackburn, William P.; and Williams, Frank C., Jr., 4,652,610, Cl. 525-100.000.
  - Simpson, Dennis A.; Singer, Debra L.; Dowbenko, Rostyslaw; Blackburn, William P.; and Kania, Charles M., 4,650,718, Cl. 428-413.000.
  - Simpson, Dennis A.; Singer, Debra L.; Dowbenko, Rostyslaw; Blackburn, William P.; and Kania, Charles M., 4,681,811, Cl. 428-413.000.
- Blacken, Laurin G.: *See—*
  - King, Christopher N.; Dolinar, Brian J.; Barrow, William A.; Flegal, Robert T.; Gulick, Paul E.; and Blacken, Laurin G., 4,691,144, Cl. 315-169.300.

Blacker, Allen P.; and Chiodi, Wayne R., to Zenith Electronics Corporation. Electron gun system with dynamic focus and dynamic convergence. 4,701,678, 10-20-87, Cl. 315-382.000.

Blacker, Allen P., Jr.; Christensen, John A.; and Garewal, Khem K. S., to Zenith Electronics Corporation. Dynamically converging electron gun system. 4,704,565, 11-3-87, Cl. 315-382.000.

Blackerby, William I. Apparatus and method for improving drive for a circular knitting machine to reduce wear and gear breakage. 4,709,561, 12-1-87, Cl. 66-8.000.

Blacket, Arnold M. Incinerator. 4,655,193, 4-7-87, Cl. 126-224.000.

Blackford, William L.; and Zakharin, Greg., to Martin Engineering Company. Piston vibrator. 4,693,732, 9-15-87, Cl. 55-112.000.

Blackham, Geoffrey H.: *See—*

Bashford, Dennis J.; and Blackham, Geoffrey H., 4,679,080, Cl. 358-150.000.

Blackham, Kenneth K.: *See—*

Schmidt, Albert L.; Sherwin, Gary W.; Blackham, Kenneth K.; and Johnson, John L., 4,706,679, Cl. 128-639.000.

Blackham, Ray, to Hewlett-Packard Company. Method and apparatus for measuring a transfer function. 4,713,782, 12-15-87, Cl. 364-553.000.

Blackhurst, Clarence W., to Sherex Chemical Company, Inc. Preparation of amines. 4,683,336, 7-28-87, Cl. 564-480.000.

Blackie, Merrick S.; and Poynton, David J., to Courtaulds PLC. Cellulose fibres for cement reinforcement. 4,647,505, 3-3-87, Cl. 428-396.000.

Blacklaws, John E.: *See—*

Teng, Chuan C.; Chapelle, Rene A.; Blacklaws, John E.; and McComsey, Lee E., 4,715,454, Cl. 175-299.000.

Blackledge, Robert: *See—*

Fava, Thomas F.; Bean, Robert; Lary, Richard F.; and Blackledge, Robert, 4,648,035, Cl. 364-200.000.

Blackman, Peter M. Thermally powered engine utilizing thermally powered valves. 4,693,090, 9-15-87, Cl. 62-116.000.

Blackman, Seymour N. Parenteral fluid medication reservoir pump. 4,692,151, 9-8-87, Cl. 604-132.000.

Blackman, Stephen M., to Federal Paper Board Co., Inc. Vending and reclosure device for powder and granular products. 4,706,875, 11-17-87, Cl. 206-626.000.

Blackman, William: *See—*

McSparran, Joseph F.; Blackman, William; Weaver, Harry Z.; and O'Neill, Jere W., 4,658,334, Cl. 361-415.000.

Blackmer, David E.; and Townsend, James H., Jr., to Kintek, Inc. Sound encoding system. 4,680,796, 7-14-87, Cl. 381-23.000.

Blackmer, David E.; and Townsend, James H., Jr., to Kintek, Inc. Stereo generator. 4,706,287, 11-10-87, Cl. 351-17.000.

Blackmon, Kenneth P.: *See—*

McCormick, Charles L.; and Blackmon, Kenneth P., 4,649,183, Cl. 526-240.000.

Blackmon Mooring Steamatic Catastrophe, Inc.: *See—*

Wood, H. Larry, 4,656,685, Cl. 15-104.160.

Blackmore, Kenneth A. E., to Georgia-Pacific Corporation. Lignosulfonate/urea binder for particulate composites. 4,704,230, 11-3-87, Cl. 252-502.000.

Blackmore, William; and Bavaro, Vito. Branch compactor. 4,633,776, 1-6-87, Cl. 100-158.00R.

Blackshaw, Andrew L.; and Robinson, Glen P., Jr., to Mississippi Power Company. Triple integrated heat pump system. 4,646,538, 3-3-87, Cl. 62-238.700.

Blackshear, David A.; Blackshear, Perry L., Jr.; Kayser, Stephen J.; and Hoey, Michael F. Humidity modifying device for guitars. 4,649,793, 3-17-87, Cl. 84-453.000.

Blackshear, Perry L., Jr.: *See—*

Blackshear, David A.; Blackshear, Perry L., Jr.; Kayser, Stephen J.; and Hoey, Michael F., 4,649,793, Cl. 84-453.000.

Blackshire, Robert D.: *See—*

Cuevas, Jess A.; and Blackshire, Robert D., 4,706,909, Cl. 244-122.0AC.

Blackstone, Gary W., to Hughes Aircraft Company. Data bus pilot tone. 4,683,471, 7-28-87, Cl. 340-825.500.

Blackwelder, Ron F.; Gad-el-Hak, Mohamed; and Srnsky, Randy A., to Flow Industries, Inc. Method and apparatus for controlling bound vortices in the vicinity of lifting surfaces. 4,697,769, 10-6-87, Cl. 244-199.000.

Blackwell, Brian R., to Canadian Patents and Development Limited. Recausticizing kraft green liquor. 4,668,342, 5-26-87, Cl. 162-30.110.

Blackwell, Catherine A.; Lakshmanan, Raman; and Subramanian, Mahadevan, to Bell Communications Research, Inc. Central computer backup system utilizing localized data bases. 4,710,870, 12-1-87, Cl. 364-200.000.

Blackwell, Gordon B.; and Huang, Chin-Teh, to Dentsply Research & Development Corp. Biologically compatible adhesive containing a phosphorus adhesion promoter and a sulfinic accelerator. 4,657,941, 4-14-87, Cl. 522-14.000.

Blackwell, James C.: *See—*

Mate, Robert D.; Parker, Dane K.; and Blackwell, James C., 4,701,507, Cl. 526-208.000.

Blackwell, Jennings P.; and Beever, William H., to Phillips Petroleum Company. Poly(arylene sulfide) resin ternary blends. 4,703,081, 10-27-87, Cl. 524-592.000.

Blackwell, Jennings P.: *See—*

Johnson, Timothy W.; Beever, William H.; O'Connor, James E.; and Blackwell, Jennings P., 4,690,972, Cl. 524-609.000.

Blackwell, John B. Mower hitch assembly. 4,637,625, 1-20-87, Cl. 280-411.00C.

Blackwood, Albert J.; and Brady, Thomas R., to Owens-Corning Fiberglas Corporation. Cooling section for continuous web material impregnated with hot liquid. 4,646,540, 3-3-87, Cl. 62-373.000.

Blackwood, Carl I. R., to White Scientific Consultants Inc. Method and apparatus for wind direction and speed in spatial determination by magnus effect. 4,635,474, 1-13-87, Cl. 73-189.000.

Blad, Per A.; and Johansson, Rolf, to AGA AB. Method of attaching a connection piece to a metal surface by brazing. 4,716,272, 12-29-87, Cl. 219-129.000.

Blade, Robert J., to Burroughs Wellcome Co. Pesticidal compounds. 4,713,200, 12-15-87, Cl. 260-408.000.

Blades, Frederick K.; and Godec, Richard D., to Anatel Instrument Corporation. Instrument for measurement of the organic carbon content of water. 4,666,860, 5-19-87, Cl. 436-146.000.

Blades, Frederick K., to Anatel Instrument Corporation. Circuit for compensating non-linearities in electrolyte conductivity measurement system. 4,683,435, 7-28-87, Cl. 324-442.000.

Blades, Russell: *See—*

Roche, Richard G.; and Blades, Russell, 4,700,548, Cl. 62-139.000.

Bladh, Ake, to Elektro-Bladh AB. Cable lead-in device. 4,686,738, 8-18-87, Cl. 16-2.000.

Bladon, John J.: *See—*

Gulla, Michael; Dutkewych, Oleh B.; and Bladon, John J., 4,634,468, Cl. 106-1.110.

Gulla, Michael; Dutkewych, Oleh B.; and Bladon, John J., 4,652,311, Cl. 106-1.110.

Blaes, Brent R.; and Buehler, Martin G., to California Institute of Technology. Method and apparatus for characterizing propagation delays of integrated circuit devices. 4,688,947, 8-25-87, Cl. 368-120.000.

Blaese, Herbert R. On-glass antenna. 4,658,259, 4-14-87, Cl. 343-715.000.

Blaesi, John E.: *See—*

Stewart, William S.; Hottovy, John D.; and Blaesi, John E., 4,676,870, Cl. 159-17.100.

Blagoveschensky Gosudarstvenny Meditsinsky Institut: *See—*

Kulik, Yaroslav P.; Shmyrin, Ivan I.; Utyamyshev, Rustam I.; and Vyrzhikovskaya, Marina N., 4,643,712, Cl. 604-4.000.

Kulik, Yaroslav P.; Shmyrin, Ivan I.; Utyamyshev, Rustam I.; Vyrzhikovskaya, Marina N.; and Smirnov, Boris A., 4,655,218, Cl. 128-321.000.

Blaha, Alfred: *See—*

von Maydell, Ignaz; Detlefsen, Juergen; and Blaha, Alfred, 4,675,677, Cl. 342-25.000.

Blaha, Franklin C.: *See—*

Cricchi, James R.; and Blaha, Franklin C., 4,685,194, Cl. 437-41.000.

Blaha, Franz A., to Canadian Marconi Company. Integrated optics stress transducer. 4,688,883, 8-25-87, Cl. 350-96.150.

Blaha, Gerald; and Dusel, Robert O., to Artos Engineering Company. Cutter/stripper/coiling apparatus for thick cable segments. 4,663,822, 5-12-87, Cl. 29-564.400.

Blaha, Gerald: *See—*

Dusel, Robert O.; Keene, Harold J.; Berres, James; and Blaha, Gerald, 4,713,880, Cl. 29-564.400.

Blaha, Matthew S.: *See—*

Tulpule, Bhalchandra R.; and Blaha, Matthew S., 4,635,254, Cl. 370-85.000.

Blaha, William E., to Ideal Industries, Inc. Screw-on wire connector. 4,691,079, 9-1-87, Cl. 174-87.000.

Blaha, William E., to Ideal Industries, Inc. Screw-on electrical connector and method of making it. 4,707,567, 11-17-87, Cl. 174-87.000.

Blahak, Johannes: *See—*

von Bonin, Wulf; Blahak, Johannes; von Gizycki, Ulrich; and Preis, Lothar, 4,659,797, Cl. 528-28.000.

Blaho, Lester J., to Pittsburgh Tube Company. Inside-tube scarfing tool. 4,682,921, 7-28-87, Cl. 409-299.000.

Blahous, Leopold; and Linhofer, Gerhard, to BBC Brown, Boveri & Company, Limited. Absorption circuit. 4,710,735, 12-1-87, Cl. 333-175.000.

Blahut, Donald E., to American Telephone and Telegraph Company, and AT&T Bell Laboratories. Microprocessor having macro-rom and main program queues. 4,677,545, 6-30-87, Cl. 364-200.000.

Blaimschein, Gottfried, to GFM Gesellschaft fur Fertigungstechnik und Maschinenbau Gesellschaft m.b.H. Milling machine. 4,681,491, 7-21-87, Cl. 409-200.000.

Blain, Aurele J. Electrical transformer having a solid core surrounding winding in a loop configuration. 4,684,882, 8-4-87, Cl. 323-356.000.

Blain, Roy W. Pressure/viscosity compensated up travel for a hydraulic elevator. 4,637,495, 1-20-87, Cl. 187-29.00A.

Blain, William A.; and Zabrodsky, John, III, to Nabisco Brands, Inc. Continuous pretzel dough manufacture. 4,691,625, 9-8-87, Cl. 99-348.000.

Blaine, Edward H., to Merck & Co., Inc. Cardiac anti-hypertrophic agents. 4,652,549, 3-24-87, Cl. 514-13.000.

Blair, Arthur A.: *See—*

Thoma, Christian H.; Arnold, George D. Mc.; and Blair, Arthur A., 4,691,512, Cl. 60-456.000.

Blair, Boyton T., to Engineering & Colloid, Ltd. Well drilling and completion composition. 4,715,971, 12-29-87, Cl. 252-8.510.

Blair, Bruce W., to Tektronix, Inc. Trigger holdoff system for a digital oscilloscope. 4,647,862, 3-3-87, Cl. 328-109.000.

Blair, Bruce W., to Tektronix, Inc. Trigger holdoff system for an oscilloscope. 4,704,691, 11-3-87, Cl. 364-487.000.

Blair, Bruce W.: *See—*

Beeley, Micheal G.; and Blair, Bruce W., 4,651,451, Cl. 37-219.000.

Bryce W.; and Hall, Lawrence A., to AMP Incorporated. Mount-
means for high durability drawer connector. 4,647,130, 3-3-87, Cl.
-64.00M.

Bryce W.; and Hall, Lawrence A., to AMP Incorporated. High
ability drawer connector. 4,664,456, 5-12-87, Cl. 339-14.00P.

Christon R.; and Parker, Kenneth B., to Atlantic Richfield Com-
y. Offshore well apparatus and method. 4,640,647, 2-3-87, Cl.
-224.000.

Christon R.; and Parker, Kenneth B., to Atlantic Richfield Com-
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-195.000.

David R. and Blair, Kathy I. Toilet seat cover and heat insulator
refor. 4,649,575, 3-17-87, Cl. 4-243.000.

Doyce T., to Berry, Ronald L. Filler composition and method.
68,529, 5-26-87, Cl. 427-54.100.

G. Richard; and Pikulski, Joseph L., to Hughes Aircraft Com-
y. Radiation resistant optical fiber waveguide. 4,669,821, 6-2-87,
350-96.340.

Henry E., to Genzyme Corporation. Alpha amylase assay.
9,108, 3-10-87, Cl. 435-22.000.

John J.; and Shue, Roger C., to Dentsply Research & Develop-
nt Corp. Dental restoration shading. 4,650,418, 3-17-87, Cl.
-203.100.

John J., to Dentsply Research & Development Corp. Method and
aratus to produce artificial dentures. 4,705,476, 11-10-87, Cl.
-171.000.

June L. Three dimensional image with picture covering and
ning system. 4,648,188, 3-10-87, Cl. 40-538.000.

June L. Image in three dimensions with picture covering and
ning system. 4,659,319, 4-21-87, Cl. 446-87.000.

Kathy I.: *See—*
lair, David R.; and Blair, Kathy I., 4,649,575, Cl. 4-243.000.

Lawrence W.; and Bryans, Alexander C., to General Electric
npany. Method of compressing a fluid flow in a multi stage cen-
gal impeller. 4,653,976, 3-31-87, Cl. 415-1.000.

Leslie M.; and Conrad, Roddy M., to Du Pont de Nemours, E. I.,
Company. Process for making n-butyl methacrylate. 4,698,440,
-87, Cl. 560-205.000.

Paul W.: *See—*
medley, James L.; and Blair, Paul W., 4,643,523, Cl. 350-319.000.

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Ronald B., to Mobil Oil Corporation. OBC location system.
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Marc H., to M. Blais Co. Swimming pool skimming weir.
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Bruce H., to E. D. Bullard Company. Fire helmet and the like.
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rummer, William L.; and Blake, Clifton A., Jr., 4,635,075, Cl.
346-76.0PH.

Dale G.: *See—*
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Daniel M.: *See—*
ambridge, Edward L.; Loutfy, Raouf O.; Withers, James C.; and
Blake, Daniel M., 4,634,581, Cl. 423-126.000.

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John B. Method of making a clamping device. 4,669,170, 6-2-87,
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Peter H.: *See—*
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Blake, Rodger D.: *See—*
- Meek, Thomas T.; and Blake, Rodger D., 4,695,695, Cl. 219-10.55M.

Blake, Walter R.: *See—*
- Dryman, William K.; Blake, Walter R.; and Halper, Warren, 4,654,768, Cl. 362-374.000.

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Blake, William S., to Realex Corporation. Unit dose liquid dispenser. 4,679,714, 7-14-87, Cl. 222-449.000.

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Blakeley, Douglas M.; Kershaw, Carolyn A.; and Gangarosa, Raymond E., to Picker International, Inc. Cardiac and respiratory gated magnetic resonance imaging. 4,694,837, 9-22-87, Cl. 128-653.000.

Blakeman, Peter J.; Johnson, Terence R.; and Pfeiffer, Claes F. H., to W. R. Grace & Co. Sealing compositions. 4,699,810, 10-13-87, Cl. 427-244.000.

Blakemore, Judith I.; Hanamoto, Mark S.; and Williams, Fred G., to Cetus Corporation. Dispensing apparatus for storing, draining and dispensing beads. 4,648,529, 3-10-87, Cl. 221-1.000.

Blakemore, Nancy: *See—*
- Schwartz, Brian B.; and Blakemore, Nancy, 4,677,067, Cl. 435-177.000.

Blakeney, Andrew J.: *See—*
- Lewis, James M.; Owens, Robert A.; and Blakeney, Andrew J., 4,661,436, Cl. 430-326.000.
- Lewis, James M.; and Blakeney, Andrew J., 4,710,449, Cl. 430-326.000.

Blakeney, Robert D., II: *See—*
- Gilhousen, Klein S.; Heller, Jerrold A.; Van Harding, Michael; and Blakeney, Robert D., II, 4,712,238, Cl. 380-20.000.

Blaker, J. Warren, to University Optical Products Co. Concentric bifocal contact lens. 4,636,049, 1-13-87, Cl. 351-161.000.

Blaker, James G.; and Statsney, Joseph F., to Cemen Tech, Inc. Fiber cutting device. 4,655,111, 4-7-87, Cl. 83-356.300.

Blalock, James E.: *See—*
- Moore, Lawrence C.; Hibdon, Freddy M.; Howell, James M.; and Blalock, James E., 4,688,499, Cl. 112-121.120.

Blamire, Michael F.; Briscoe, Peter F.; McLeod, Douglas D.; Doolittle, B. Kingsley; and Roach, Michael J., to Murata Erie North America, Ltd. Discoid capacitor structure. 4,673,900, 6-16-87, Cl. 333-167.000.

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Blanc, Alain: *See—*
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Blanc, Francis: *See—*
- Bayol, Alain; Blanc, Francis; Lansen, Jacqueline; Maffrand, Jean-Pierre; and Pereillo, Jean-Marie, 4,713,373, Cl. 514-54.000.

Blanc GmbH & Company: *See—*
- Muck, Manfred; Blanc, Walter; and Muller, Hans-Albert, 4,689,840, Cl. 4-629.000

Blanc, James J.; Hansen, Bryan P.; and Kemper, Dale A., to Sperry Corporation. Apparatus and method of anode power supply control during vertical retrace. 4,654,565, 3-31-87, Cl. 315-411.000.

Blanc, Jean-Philippe: *See—*
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Blanc, Michel; Pollard, Jean; Marchand, Gerard; and Henri, Rene. Multi-directional non-imaging radiations concentrator and/or deconcentrator device. 4,697,867, 10-6-87, Cl. 350-96.100.

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Blancas, Rueben. Rotating grip brake for bicycles. 4,653,613, 3-31-87, Cl. 188-24.110.

Blanchard, Christian: *See—*
- Belbel, Elie; Baron, Thierry; Blanchard, Christian; Haury, Andre; and Lauraire, Michel, 4,635,022, Cl. 337-158.000.
- Belbel, Elie; Blanchard, Christian; Cohen, Jacques; Haury, Andre; Lauraire, Michel; and Moreau, Luc, 4,650,937, Cl. 200-77.000.
- Belbel, Elie; Blanchard, Christian; Haury, Andre; and Lauraire, Michel, 4,659,887, Cl. 200-151.000.
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- Belbel, Elie; Blanchard, Christian; Haury, Andre ; and Lauraire, Michel, 4,677,266, Cl. 200-151.000.
- Belbel, Elie; Bataille, Christian; Blanchard, Christian; Haury, Andre ; and Lauraire, Michel, 4,682,132, Cl. 335-14.000.
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Blanchard, David L.; and Snopko, Paul A., to Zenith Electronics Corporation. Adaptive comb filter and interpolator. 4,646,133, 2-24-87, Cl. 358-11.000.

Blanchard, Eugene J.: *See—*

Vigo, Tyrone L.; and Blanchard, Eugene J., 4,678,473, Cl. 8-480.000.

Blanchard, Francoise: *See—*

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Blanchard, Gilbert; and Prigent, Michel, to Pro-Catalyse. Pollution control catalyst for internal combustion engine exhaust gases and process for producing it. 4,680,282, 7-14-87, Cl. 502-304.000.

Blanchard, Jean-Marc: *See—*

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Blanchard, Kenneth E.; and Sanislo, Stephen V., Jr., to Phonetics, Inc.; and Wisconsin Bell, Inc. Digital and synthesized speech alarm system. 4,716,582, 12-29-87, Cl. 379-28.000.

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Blanchard, Pierre; and Cortot, Jean P., to Thomson-Csf. Process for producing silicide or silicon gates for an integrated circuit having elements of the gate-insulator-semiconductor type. 4,679,301, 7-14-87, Cl. 29-571.000.

Blanchard, Pierre, to Thomson-CSF. Method of obtaining a diode whose contact tapping is self aligned with a gate. 4,692,995, 9-15-87, Cl. 437-41.000.

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Blanchard, Richard A., to Siliconix Incorporated. Manufacture of trimmable high value polycrystalline silicon resistors. 4,707,909, 11-24-87, Cl. 437-109.000.

Blanchard, Robert L., to Foxboro Company, The. Measurement calibration. 4,716,536, 12-29-87, Cl. 364-571.000.

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Blanchard, Russell O., to Batts, Inc. Hanger leg mounting structure for a support rod. 4,638,930, 1-27-87, Cl. 223-85.000.

Blanchard, Russell O.; and Duester, Everett, to Batts, Inc. Ganging hook for garment hangers. 4,653,678, 3-31-87, Cl. 223-85.000.

Blanchard, Russell O., to Batts, Inc. Garment hanger with improved wire support. 4,660,750, 4-28-87, Cl. 223-91.000.

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Blanchette, Ronald L.: *See—*

Percivalle, Glenn S.; and Blanchette, Ronald L., 4,712,457, Cl. 82-47.000.

Blanckenhorn, Rolf: *See—*

Streit, Werner; Witt, Linda; Angstmann, Heinz-Dieter; Blanckenhorn, Rolf; and Fikentscher, Rolf, 4,654,043, Cl. 8-189.000.

Blanco, Antonio, to Gang-Nail Systems Inc. Automated truss component saw apparatus. 4,676,129, 6-30-87, Cl. 83-71.000.

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Filips, Chester P.; and Blanco, Antonio G., 4,633,863, Cl. 128-165.000.

Filips, Chester P.; and Blanco, Antonio G., 4,665,574, Cl. 5-462.000.

Blanco, Carlos; and Siragusa, Anthony, to O'D. Offenhartz, Colin. Non-occlusive burn and trauma dressing. 4,667,665, 5-26-87, Cl. 128-156.000.

Blanco, Carlos; Asam, Adolf R.; and Smith, John C., to U.S. Holding Company, Inc. Dielectric strength elements for loose tube optical fiber cable. 4,693,551, 9-15-87, Cl. 350-96.230.

Blanco, Guillermo L.: *See—*

Toivola, Reijo J.; Karjalainen, Arto J.; Kurkela, Kauko O. A.; Soderwall, Marja-Liisa; Kangas, Lauri V. M.; Blanco, Guillermo L.; and Sunduiqst, Hannu K., 4,696,949, Cl. 514-648.000.

Blanco, John F., to Igene Biotechnology, Inc. Microcrystalline tableting excipient derived from whey. 4,670,251, 6-2-87, Cl. 424-465.000.

Bland, Gerald F.; and Zdanowicz, Larry E., to Outboard Marine Corporation. Marine propulsion device with floating drive shaft. 4,650,428, 3-17-87, Cl. 440-83.000.

Bland, Gerald F.; and Sullivan, Donald K., to Outboard Marine Corporation. Steering means for marine propulsion device. 4,654,013, 3-31-87, Cl. 440-57.000.

Bland, Gerald F.; Johnson, Stephen R.; and Sullivan, Donald K., to Outboard Marine Corporation. Hydraulic system for marine propulsion devices. 4,659,315, 4-21-87, Cl. 440-61.000.

Bland, Gerald F.; and Johnson, Stephen R. Marine propulsion device exhaust system. 4,687,450, 8-18-87, Cl. 440-89.000.

Bland, Gerald F.; and Sullivan, Donald K., to Outboard Marine Corporation. Marine propulsion device water supply system. 4,699,598, 10-13-87, Cl. 440-88.000.

Bland, Patrick M.; and Bolt, William H., to International Business Machines Corporation. Powered conservation system in battery powered keyboard device including a microprocessor. 4,649,373, 3-10-87, Cl. 340-365.00R.

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Bland, Randall J., to American Telephone and Telegraph Company, AT&T Information Systems Inc. Wound coil products and manufacture thereof. 4,663,519, 5-5-87, Cl. 235-492.000.

Bland, Timothy J., to Sundstrand Corporation. Gravity insensitive inventory control device for a two-phase flow system. 4,679,980, 7-14-87, Cl. 415-24.000.

Bland, Timothy J.: *See—*

Readman, John; and Bland, Timothy J., 4,683,389, Cl. 310-62.000.

Bland, Todd A. Hand-held hair dryer having housed radio receiver. 4,641,014, 2-3-87, Cl. 219-370.000.

Blandamura, Manlio, to Finchimica s.r.l. Therapeutic use of cyproterone acetate. 4,639,440, 1-27-87, Cl. 514-178.000.

Blander, Milton; and Cook, Glenn M., to United States of America, Energy. Refractory lining for electrochemical cell. 4,687,564, 8-18-87, Cl. 204-243.00R.

Blandford, David M.; and Easter, John H. Rotatable reciprocating collar for borehole casing. 4,678,031, 7-7-87, Cl. 166-242.000.

Blandford, Joseph W., to Seahorse Equipment Corporation. Offshore well support miniplatform. 4,679,964, 7-14-87, Cl. 405-216.000.

Blane, Roger H.: *See—*

Hodkin, George A.; and Blane, Roger H., 4,681,988, Cl. 200-17.00R.

Blaney, Peter G., to Zemco Group, Inc. Electronic automotive compass and display. 4,694,583, 9-22-87, Cl. 33-361.000.

Blaney, Robert J.: *See—*

Helmsdorfer, Robert J.; Kemnitz, Todd; and Blaney, Robert J., 4,688,747, Cl. 248-56.000.

Blaney, Ted L.: *See—*

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Blanford, Denis M., to NCR Corporation. Scanning control system for merchandise checkout. 4,679,154, 7-7-87, Cl. 364-525.000.

Blank, David L.: *See—*

Stiffey, Arthur V.; Blank, David L.; and Loeb, George I., 4,689,305, Cl. 435-291.000.

Blank, Hans G.; and Fox, Jeffrey R., to GTE Laboratories Incorporated. Integrated circuit input-output diagnostic system. 4,638,246, 1-20-87, Cl. 324-73.00R.

Blank, Heinz U.: *See—*

Beitzke, Bernhard; and Blank, Heinz U., 4,668,788, Cl. 544-319.000.

Hammerschmidt, Erich; Behre, Horst; Blank, Heinz U.; and Mayer, Dietmar, 4,705,652, Cl. 260-512.00C.

Marzolph, Gerhard; Blank, Heinz U.; Reinecke, Paul; Brandes, Wilhelm; and Hanssler, Gerd, 4,666,935, Cl. 514-424.000.

Werner, Friedrich, and Blank, Heinz U., 4,661,621, Cl. 560-174.000.

Blank, Kurt: *See—*

Halberschmidt, Friedrich; Reinmold, Heinz-Josef; Schwarzenberg, Norbert; Radermacher, Herbert; Blank, Kurt; Audi, Josef; and Vanaschen, Luc, 4,682,997, Cl. 65-106.000.

Blank, Richard E.; Tien, Albert F.; and Amith, Avraham, to ITT Electro Optical Products, a division of ITT Corporation. Method of measuring the temperature of a photocathode. 4,708,677, 11-24-87, Cl. 445-3.000.

Blank, Robert G.; and Mody, Dhiraj S., to American Home Products Corporation. Stable hydrogen peroxide gels. 4,696,757, 9-29-87, Cl. 252-186.290.

Blank, Robert G.; and Miller, Ronald W., to American Home Products Corporation. Stabilized coated aspirin tablets. 4,716,042, 12-29-87, Cl. 424-474.000.

Blank, Thomas: *See—*

Heiskel, Elmar; and Blank, Thomas, 4,647,395, Cl. 252-174.210.

Blank, Thomas H.; and Cohn, Gabriel. Cleaning cassette. 4,669,017, 5-26-87, Cl. 360-128.000.

Blank, Werner J.: *See—*

Schirmann, Peter J.; Blank, Werner J.; and Parekh, Girish G., 4,656,308, Cl. 560-170.000.

Blankemeyer, Robert L., to Metokote Corporation. Electrocoating method and apparatus. 4,643,815, 2-17-87, Cl. 204-180.200.

Blankemeyer, William J.; and Hetherwick, James L., to Blankemeyer, William J. Gas-fired portable cooking apparatus. 4,688,549, 8-25-87, Cl. 126-373.000.

Blanken, Pieter G.; and van der Zee, Pieter, to U.S. Philips Corporation. Reduced distortion display circuit. 4,679,092, 7-7-87, Cl. 358-242.000.

Blanken, Pieter G.; and van der Zee, Pieter, to U.S. Philips Corporation. Apparatus for reducing beam current measurement errors. 4,680,640, 7-14-87, Cl. 358-243.000.

Blankenship, Gene E.; Gonsalves, Edward M.; Kawate, Keith W.; Sacarisen, Stephen P.; Giolma, William H.; and Spanjol, Damir A., to Texas Instruments Incorporated. Coolant condition sensor apparatus. 4,666,582, 5-19-87, Cl. 204-404.000.

Blankenship, Johnny E.: *See—*

Sasuta, Michael D.; Rosenthal, Lewis H.; Mills, Donald C.; Marten, Russell A.; Kizior, David J.; Sobti, Arun; and Blankenship, Johnny E., 4,698,805, Cl. 370-97.000.

Blankenship, Larry K.; and Denny, Bradley J., to C.R. Bard, Inc. Medical apparatus for monitoring body liquid discharge. 4,658,834, 4-21-87, Cl. 128-771.000.

Blankenship, Timothy L.; and Nolan, Joseph G., III, to Harris Corporation. Test circuitry for testing fuse link programmable memory devices. 4,698,589, 10-6-87, Cl. 324-158.00R.

Blankers, Johannes M. M.: *See—*
- Scholten, Gerard J.; Dieleman, Louis F. A.; and Blankers, Johannes M. M., 4,712,675, Cl. 206-332.000.

Blanks, Robert F.: *See—*
- Jezl, James L.; Blanks, Robert F.; Stasi, Michael A.; and Puskas, Imre. 4,654,458, Cl. 585-500.000.

Blanos, George A.: *See—*
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Blanot, Didier: *See—*
- Bach, Jean-Francois; Dardenne, Mireille; Pleau, Jean-Marie; Hamburger, Jean; Bricas, Evangheios; Martinez, Jean; Blanot, Didier; Auger, Genevieve; Lefrancier, Pierre; and Amor, Bernard. 4,680,276, Cl. 436-542.000.

Blanyer, Richard J.; and Mathews, Charles L. Method and apparatus for coating a core material with metal. 4,658,623, 4-21-87, Cl. 72-268.000.

Blanz, Roland, to Graubremse GmbH. Leveling valve with height limit. 4,673,172, 6-16-87, Cl. 267-64.110.

Blanz, Rolanz, to Graubremse GmbH. Control arrangement for raising and lowering the vehicle body of air-suspended vehicles. 4,697,822, 10-6-87, Cl. 280-6.00H.

Blaschim S.p.A.: *See—*
- Giordano, Claudio; Villa, Giovanni; Uggeri, Fulvio; and Castaldi, Graziano, 4,675,418, Cl. 549-79.000.
- Piccolo, Oreste; Visentin, Giuseppina; Blasina, Pietro; and Spreafico, Franca, 4,670,603, Cl. 568-319.000.

Blaschke, Felix, to Siemens Aktiengesellschaft. Method and apparatus for determining the torque of a torque generator. 4,638,673, 1-27-87, Cl. 73-862.170.

Blaschke, Felix, to Siemens Aktiengeselischaft. Method and apparatus to operate an intermediate circuit converter with current rise limitation. 4,689,732, 8-25-87, Cl. 363-35.000.

Blaschke, Gunter: *See—*
- Aigner, Rudolf; Blaschke, Gunter; and Muller, Gunther, 4,670,594, Cl. 564-296.000.

Blaschke, Marilyn W.: *See—*
- Miller, Richard F.; and Blaschke, Marilyn W., 4,650,918, Cl. 585-458.000.
- Miller, Richard F.; and Blaschke, Marilyn W., 4,654,451, Cl. 585-5.000.
- Miller, Richard F.; and Blaschke, Marilyn W., 4,675,305, Cl. 502-168.000.

Blasczyk, Gotthardt: *See—*
- Allers, Tyark; and Blasczyk, Gotthardt, 4,690,335, Cl. 241-24.000.
- Henne, Heinrich; Blasczyk, Gotthardt; Eickholt, Hubert; and Lohnherr, Ludger, 4,694,994, Cl. 241-79.100.

Blaseck, Klaus: *See—*
- Hendrich, Klaus; Halm, Horst; Blaseck, Klaus; and Hoffmeister, Lothar, 4,664,873, Cl. 376-260.000.

Blaser, Dwight A.: *See—*
- Varterasian, John H.; and Blaser, Dwight A., 4,653,327, Cl. 73-579.000.

Blaser, Hansueli: *See—*
- Lodetti, Attilio; and Blaser, Hansueli, 4,712,288, Cl. 29-557.000.

Blaser, Peter: *See—*
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Blaser, Reinhard: *See—*
- Ladeburg, Jorg; Becker, Robert; Dreymann, Bernhard; Gensler, Thomas; Ulrich, Robert; Wahrenbruch, Paul; and Blaser, Reinhard, 4,672,166, Cl. 219-110.000.

Blasina, Pietro: *See—*
- Piccolo, Oreste; Visentin, Giuseppina; Blasina, Pietro; and Spreafico, Franca, 4,670,603, Cl. 568-319.000.

Blasius, Ewald; and Nilles, Karl-Heinz, to Kernforschungszentrum Karlsruhe GmbH. Process for the extraction of cesium ions from aqueous solutions. 4,647,440, 3-3-87, Cl. 423-181.000.

Blasius, Udo; and Rodi, Anton, to Heidelberger Druckmaschinen AG. Data transmission system of opto-couplers. 4,639,727, 1-27-87, Cl. 340-825.570.

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Blaskovics, Ferenc: *See—*
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Blaskovits, Pavol; Lesnak, Stefan; Martisik, Alojz; Zajac, Jan; Slavkovsky, Jan; Turiansky, Ladislav; and Levius, Rudolf, to Vyskumny ustav zvaracsky. Apparatus for the electroslag surfacing of rolling mill rolls. 4,707,581, 11-17-87, Cl. 219-73.110.

Blass, Judd; and Keren, Hanan, to Elscint Ltd. Dual frequency surface probes. 4,691,163, 9-1-87, Cl. 324-318.000.

Blatch, Pamela E., to Dow Corning Corporation. Fluorine-containing organosilanes useful as magnetic media lubricants. 4,689,181, 8-25-87, Cl. 260-408.000.

Blatherwick, William J.; Hamilton, Leslie; Holewinski, Robert D.; Shen Virginia A.; Kapec, Jeffrey; and Tanaka, Kazuna, to Johnson & Johnson Dental Products Company. Ratchet type dispenser for dental materials. 4,693,684, 9-15-87, Cl. 433-90.000.

Blatherwick, William J.: *See—*
- Holewinski, Robert D.; Blatherwick, William J.; Hamilton, Leslie; and Wells, Thomas E., Sr., 4,708,650, Cl. 433-90.000.

Blatt, L. Douglas. Transfer boom assembly for workpieces. 4,650,234, 3-17-87, Cl. 294-65.000.

Blatter, Harold, to RCA Corporation. Video signal scrambling system employing full line reversal and double burst coding. 4,663,659, 5-5-87, Cl. 380-14.000.

Blatter, Harold; and Carlson, David J., to RCA Corporation. Television receiver for direct broadcast satellite signals. 4,667,243, 5-19-87, Cl. 358-191.100.

Blatter, Max, to Flowtec AG. Method for compensating interference voltages in the electrode circuit in magnetic-inductive flow measurement. 4,704,908, 11-10-87, Cl. 73-861.170.

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Blattner, Raymond J., to Ryeson Corporation. Adjustable torque wrench. 4,655,104, 4-7-87, Cl. 81-483.000.

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Blauhut, Wilfried; Hoschek, Gunter; and Malojer, Robert, to Chemie Linz Aktiengesellschaft. Device for cutting band-shaped or strand-shaped material. 4,706,531, 11-17-87, Cl. 83-346.000.

Blaul, Ronald L., to Trigent, Inc. Hot tank spray washer and controls. 4,676,261, 6-30-87, Cl. 134-57.00R.

Blaumanis, Otis R.: *See—*
- Samaras, George M.; Blaumanis, Otis R.; and Van Horn, H. William, 4,649,928, Cl. 128-672.000.

Blaupunkt-Werke GmbH: *See—*
- Black, Karl-Heinz; and Schuchardt, Gunter, 4,692,669, Cl. 315-381.000.
- Fricke, Walter, 4,688,110, Cl. 360-19.100.
- Kasser, Jurgen, 4,704,736, Cl. 455-213.000.
- Knakowski, Rolf; and Fahlbusch, Dieter, 4,679,026, Cl. 340-63.000.
- Kruger, H. Eckhard, 4,646,147, Cl. 380-14.000.
- Markovic, A.; Temerinac, M.; and Braegas, Peter, 4,679,238, Cl. 381-16.000.

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Blauschild, Robert A.; and Toy, Edmond, to Signetics Corporation. Switching circuit with hysteresis. 4,677,315, 6-30-87, Cl. 307-350.000.

Blaushild, Ronald M.; and Veronesi, Luciano, to Westinghouse Electric Corp. Low stressed rationally shaped core support. 4,657,730, 4-14-87, Cl. 376-285.000.

Blaushild, Ronald M.; and Rusnica, Edward J., to Westinghouse Electric Corp. Guide tube flow restrictor. 4,664,879, 5-12-87, Cl. 376-352.000.

Blaushild, Ronald M., to Westinghouse Electric Corp. Nuclear reactor incorporating locking device for threaded bolt connections. 4,711,760, 12-8-87, Cl. 376-399.000.

Blaushild, Ronald M., to United States of America, Energy. Self-adjustable supplemental support system for a cylindrical container in a housing. 4,714,228, 12-22-87, Cl. 248-608.000.

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- Hamlyn, John M.; Blaustein, Mordecai P.; and Kowarski, A. Avinoam, 4,665,019, Cl. 435-21.000.

Blauth, Walter; and Knoll, Ernst, to Knoll, Ernst. Apparatus for postoperative and other exercising of elbow and shoulder joints. 4,669,451, 6-2-87, Cl. 128-25.00R.

Blaw Knox Corporation: *See—*
- Moore, James G.; Obey, James H.; and Pinkel, Edward B., 4,640,740, Cl. 159-13.100.
- Royzman, Semyon E., 4,664,701, Cl. 75-51.100.
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Blaze, Kevin L. Electrical measuring apparatus, and methods for determining the condition or identity of biological material. 4,692,685, 9-8-87, Cl. 324-61.0QS.

Blazejak, Manfred: *See—*
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Blazek, William S., to TRW Inc. Method of assembling molds. 4,702,298, 10-27-87, Cl. 164-137.000.

Blazevic, David T. Coil guide system for hot strip mills. 4,643,013, 2-17-87, Cl. 72-252.000.

Blazey, Steven D.: *See—*
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Blecher, Klaus; Fiedler, Reinhard; Beermann, Hubert; and Wagener, Gerhard, to Correcta GmbH. Apron for bathtubs. 4,669,133, 6-2-87, Cl. 4-538.000.

Blecher, Peter, to Ermossa AG. Floor plate. 4,640,073, 2-3-87, Cl. 52-403.000.

Blechman, Abraham; and Pescatore, Eugene A., to Medical Magnetics, Inc. Magnetic force functional orthodontic appliances. 4,671,767, 6-9-87, Cl. 433-19.000.

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Bleckmann, Gerhard; Lynch, John; and Wallbillich, Gunter, to BASF Aktiengesellschaft. Method for closing the gap between the ends of gravure printing plates clamped on forme clyinders. 4,635,549, 1-13-87, Cl. 101-401.100.

Bleckmann, Hans W.: *See—*

Belart, Juan; Burgdorf, Jochen; Bleckmann, Hans W.; Weise, Lutz; and Seibert, Wolfram, 4,641,895, Cl. 303-119.000.

Bleckmann, Ingo. Tubular heater with an overload safety means. 4,697,069, 9-29-87, Cl. 219-517.000.

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Veazey, Richard L.; and Bledsoe, James O., Jr., 4,650,822, Cl 524-376.000.

Bledsoe, Phillip G. Internal combustion engine valve lift and cam duration control system. 4,643,141, 2-17-87, Cl. 123-90.160.

Bledsoe, Raymond: *See—*

Stover, Kenneth W.; Bledsoe, Raymond; and Foley, Henry L., 4,676,150, Cl. 99-295.000.

Bledsoe, Robert E., to Racal Data Communications Inc. Data communication with modified Huffman coding. 4,646,061, 2-24-87, Cl. 340-347.0DD.

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Blee, Leonard J. Marine hull. 4,708,085, 11-24-87, Cl. 114-290.000.

Bleecker, William H.; and Corley, William G., to Ex-Cell-O Corporation. Abrasive tool for honing. 4,655,795, 4-7-87, Cl 51-309.000.

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Bleeker, Jan J.; Lammers, Jan H.; and Roest, Jacob B., to Shell Oil Company. Biopolymer formulations and processes for preparing them. 4,670,167, 6-2-87, Cl. 252-8.554.

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Bleger, Claude; Bruder, Peter; and Munster, Ernst, to Robert Bosch GmbH. Electric device with a cable supporting element and method of mounting the supporting element to the electric device. 4,664,466, 5-12-87, Cl. 339-126.00R.

Bleh, Klaus. Device for washing out organic loam-like impurities from continuously fed large and fine granular solids. 4,696,736, 9-29-87, Cl. 209-173.000.

Bleha, William P., Jr.: *See—*

Koda, Nobuo J.; Bleha, William P., Jr.; Giehll, Harry W.; Reinsch, Stephen J.; and Robusto, Paul F., 4,650,286, Cl. 350-331.00R.

Bleich, Ralf, to Hauni-Werke Korber & Co. KG. Grinding machine with magazine for spare grinding wheels. 4,670,964, 6-9-87, Cl. 29-568.000.

Bleicher, Manfred; and Bohne, Ulrich, to Robert Bosch GmbH. Motor-driven circular saw. 4,644,835, 2-24-87, Cl. 83-471.200.

Bleick, Robert O. Cheese cutter. 4,646,602, 3-3-87, Cl. 83-408.000.

Bleier, Waldemar; Lutze, Theodor; and Stallforth, Harald, to Aesculap-Werke AG. Clip for the occlusion of an oviduct or vas deferens. 4,693,251, 9-15-87, Cl. 128-346.000.

Bleil, Charles F.; and Morrow, John E., to Procter & Gamble Company, The. Granular detergents which contain high levels of anionic surfactant that forms a middle-phase, surface treated with a water soluble cationic surfactant. 4,704,221, 11-3-87, Cl. 252-91.000.

Bleke, Jim: *See—*

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Blem, Allen R.: *See—*

Brouwer, Walter G.; and Blem, Allen R., 4,664,694, Cl. 71-90.000.

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Kuhlmann, Werner, 4,649,165, Cl. 523-116.000.

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Mierau, Hans-Dieter; and Spindler, Thomas, 4,698,869, Cl. 15-22.00R.

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Blenkers, Johannes; and Coosemans, Luc M. C., to Stamicarbon B.V. Catalyst system for high-temperature (co)polymerization of ethylene. 4,704,376, 11-3-87, Cl. 502-104.000.

Blenkush, Brian J., to Colder Products Company. Miniature tube fitting having a barbed stem portion surrounded by a protective shroud and method for making same. 4,703,957, 11-3-87, Cl. 285-239.000.

Bleris: *See—*

Arroux, Daniel; Genter, Claude; Anton, Christian; and Forme, Jacques, 4,716,412, Cl. 340-753.000.

Blesinger, Hans R., to Bellheimer Metallwerk GmbH. Endless conveyor. 4,645,885, 2-24-87, Cl. 191-45.00R.

Blesser, Barry, to Pencept, Inc. Digitizing tablet system including a tablet having a grid structure made of two orthogonal sets of parallel uniformly sized and spaced U shaped loops of conductive material. *4,694,124, 9-15-87, Cl. 178-19.000.

Blesser, Barry A.; and Prentice, Thomas C., to Pencept, Inc. Position indicating apparatus for use in a digitizing tablet system. 4,638,119, 1-20-87, Cl. 178-19.000.

Blesser, Barry A.; and Prentice, Thomas C., to Pencept, Inc. Digitizing tablet system. 4,644,102, 2-17-87, Cl. 178-19.000.

Blesser, Barry A. Digital data communicating. 4,694,471, 9-15-87, Cl. 375-45.000.

Blessing, Gerald V.; and Flynn, Daniel R., to United States of America, Commerce. Acoustic evaluation of thermal insulation. 4,672,851, 6-16-87, Cl. 73-597.000.

Blessing, Hubert, to Levi Strauss & Co. Workpiece centering apparatus and method. 4,655,596, 4-7-87, Cl. 356-372.000.

Blessing, Hubert, to Levi Strauss & Co. Separating and feeding fabric parts. 4,688,781, 8-25-87, Cl. 271-1.000.

Blessinger, Kurt V., to Eastman Kodak Company. Timing signal dropout compensation circuit. 4,680,651, 7-14-87, Cl. 360-38.100.

Blessum, Norman S., to Xebec Development Partners, Ltd. Detection and amplification circuit. 4,688,119, 8-18-87, Cl. 360-77.000.

Blet, Louis J. C.: *See—*

Guillaumon, Jean-Claude; Blet, Louis J. C.; and Guerard, Francoise M. J. B., 4,655,966, Cl. 252-518.000.

Bleth, Joel J.; and Tormaschy, Williard R. Fluid inductor and metering device and method of use. 4,690,179, 9-1-87, Cl. 141-1.000.

Bletschacher, Max: *See—*

Duerrschnabel, Wolfgang; Puckert, Franz; Stueer, Heinrich; and Bletschacher, Max, 4,678,637, Cl. 420-490.000.

Bletz, Walter, to Ernst Leitz Wetzlar GmbH. Process and circuit arrangement for amplifying an input current. 4,639,134, 1-27-87, Cl. 356-223.000.

Bletz, Walter; and Magel, Rolf, to Ernst Leitz Wetzlar GmbH. Circuit arrangement for an electronic exposure meter. 4,647,175, 3-3-87, Cl. 354-473.000.

Bletz, Walter; and Magel, Rolf, to Ernst Leitz Wetzlar GmbH. Circuit arrangement to ascertain and indicate that a luminous density limit condition is exceeded. 4,694,155, 9-15-87, Cl. 250-214.00R.

Bleuel, Eric P.; and Ponn, Timothy R., to Molex Incorporated. Method and apparatus for preparing flat ribbon cable. 4,662,968, 5-5-87, Cl. 156-250.000.

Blevins, Ballard J.; Kulpa, William G.; Mathis, Joseph R.; and McCullough, John W., to International Business Machines Corporation. Bus to bus converter using a RAM for multiple address mapping. 4,695,948, 9-22-87, Cl. 364-200.000.

Blevins, Gerald G.; Johnson, Fred, Jr.; Lentz, Frank R.; and Root, John P., to Boeing Company, The. Tooling for elastomeric swaging machine. 4,641,407, 2-10-87, Cl. 29-237.000.

Blezard, Robert C.: *See—*

Evans, Robert D.; and Blezard, Robert C., 4,637,948, Cl. 428-89.000.

Evans, Robert D.; and Blezard, Robert C., 4,699,818, Cl. 428-85.000.

Evans, Robert D.; and Blezard, Robert C., 4,713,130, Cl. 156-72.000.

Bliamptis, Tim E.: *See—*

Downer, James R.; Eisenhaure, David B.; Oberbeck, George; Bliamptis, Tim E.; and Hendrie, Susan D., 4,700,094, Cl. 310-90.500.

Blichasz, Charles S.: *See—*

Morningstar, Leroy J.; and Blichasz, Charles S., 4,659,166, Cl. 339-177.00R.

Blickenderfer, Charles: *See—*

Hasenwinkle, Earl D.; Wislocker, Frank; and Blickenderfer, Charles, 4,633,924, Cl. 144-242.00E.

Blickenderfer, Jack L.: *See—*

Tolino, Ralph W.; King, William E.; Blickenderfer, Jack L.; and Roth, Charles H., Jr., 4,696,784, Cl. 376-245.000.

Blickle, Karl; Fork, Werner; and Wunder, Hermann, to J. M. Voith GmbH; and Muller-BBM GmbH. Elastic mounting for a cycloidal propeller. 4,664,636, 5-12-87, Cl. 440-52.000.

Blickle, Peter, to Hoechst Aktiengesellschaft. Process for the preparation of 3-hydroxy-3-methylglutaric acid. 4,640,750, 2-3-87, Cl. 204-79.000.

Blidschun, Benno; and Lierke, Ernst G., to Kolbus GmbH & Co. KG. Process and apparatus for sterilizing containers. 4,680,163, 7-14-87, Cl. 422-28.000.

Blidung, Otto; and Schwenke, Dieter, to Womako Maschinenkonstruktionen GmbH. Apparatus for cross cutting a running web. 4,650,453, 3-17-87, Cl. 493-239.000.

Blidung, Otto: *See—*

Bergner, Herbert; Blidung, Otto; and Harten, Johannes, 4,653,248, Cl. 53-231.000.

Blieden, Richard: *See—*

Hanak, Joseph J.; Young, James; Kuypers, Bert; and Blieden, Richard, 4,636,579, Cl. 136-245.000.

Bliehall, James C., to Diasonics, Inc. NMR surface coil positioning device. 4,684,894, 8-4-87, Cl. 324-318.000.

Bliek, Genevieve M.; and Luehman, Kent W., to Hewlett-Packard Company. Serial bus system. 4,675,864, 6-23-87, Cl. 370-85.000.

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671,816, 6-9-87, Cl. 71-88.000.

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Block, Gary C.: *See—*
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Block, George, to Carstens Health Industries, Inc. Pressure sensitive reinforcement tape for loose leaf sheet. 4,662,770, 5-5-87, Cl. 402-80.00R.

Block, Gerald. Method and apparatus for synchronizing tape recording and playback machines. 4,675,757, 6-23-87, Cl. 360-73.000.

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Block, Jacob, to W. R. Grace & Co. Dispersible alpha alumina monohydrate. 4,666,614, 5-19-87, Cl. 252-8.512

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Heath, Herbert E.; and Block, Jay M., 4,688,072, Cl. 357-45.000.

Block, Michael J., to Union Oil Company of California. Solution useful in making carbon-metal phosphate composite. 4,707,299, 11-17-87, Cl. 252-400.100.

Block, Myron J.; and Hirschfeld, Tomas B., to Ord, Inc. Fluorescent assays, including immunoassays, with feature of flowing sample. 4,716,121, 12-29-87, Cl. 436-514.000.

Block, Peter C.: *See—*
Pfeiler, Manfred; Seissl, Johann; and Block, Peter C., 4,709,385, Cl. 378-99.000.

Block, Robert A.: *See—*
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Block, Ulrich; Muff, Wolf; Nixdorf, Klaus; and Wagner, Joachim, to BASF Aktiengesellschaft. Generation of reduced pressure in apparatuses in the preparation of phthalic anhydride and maleic anhydride. 4,675,420, 6-23-87, Cl. 549-248.000.

Block, Werner; Pabst, Wolfgang; and Pilsak, Manfred, to Patent-Treuhand-Gesellschaft fur elektrische Gulhlampen mbH. Compact high-pressure discharge lamp with a fill including cadmium and lithium halide. 4,686,419, 8-11-87, Cl. 313-641.000.

Blocker, Erich, to Hoechst Aktiengesellschaft. Completely aromatic polyesters, a process for their preparation and corresponding shaped articles. 4,661,579, 4-28-87, Cl. 528-170.000.

Blocker, William C. Vapor delivery pressure test adapter. 4,702,754, 10-27-87, Cl. 55-274.000.

Blockisch, Olaf: *See—*
Mierbach, Hans-Bernd; Frohn, Gustav K.; and Blockisch, Olaf, 4,709,600, Cl. 81-57.390.

Bloebaum, Roy D., to Harrington Arthritis Research Center. Knee prosthesis. 4,714,473, 12-22-87, Cl. 623-20.000.

Bloecher, Ulrich; and Duwell, Ernest J., to Minnesota Mining and Manufacturing Company. Erodable agglomerates and abrasive products containing the same. 4,652,275, 3-24-87, Cl. 51-298.000.

Bloecker, Wayne H.: *See—*
Rogovein, Michael E.; Benz, Stephen J., Jr.; and Bloecker, Wayne H., 4,667,457, Cl. 53-569.000.

Bloemen, Hendrikus F. B., to U.S. Philips Corporation. Current-measuring arrangement with overload protection. 4,700,130, 10-13-87, Cl. 324-110.000.

Bloemendaal, Brent J., to Bio-Dynamic Innovations, Inc. Exercise device. 4,645,199, 2-24-87, Cl. 272-73.000.

Bloemers, James L., to Brunswick Corporation. Outboard motor lock. 4,648,254, 3-10-87, Cl. 70-232.000.

Bloesl, Siegfried: *See—*
Schaper, Ulf A.; Bloesl, Siegfried; and Bruns, Klaus, 4,661,286, Cl. 252-522.00R.
Schaper, Ulf-Armin; Streschnak, Benno; Bloesl, Siegfried; and Sommer, Walter, 4,652,401, Cl. 252-522.00R.

Blohm & Voss AG: *See—*
Engelskirchen, Jurgen, 4,637,336, Cl. 114-293.000.
Franz, Hans-Joachim; Sadler, Karl-Otto; and Schmidt, Willi, 4,658,747, Cl. 114-85.000.
Franz, Hans-Joachim; Hommola, Jurgen; Langensiepen, Bernd; and Eckhardt, Wolfgang, 4,665,653, Cl. 49-477.000.
Friederichs, Karl-Heinz; and Twiefel, Gunther, 4,693,665, Cl. 414-744.00R.
Latza, Joachim; and Mock, Gunther, 4,711,193, Cl. 114-211.000.
Naumann, Herbert, 4,662,586, Cl. 244-115.000.
Otto, Wilheim, 4,691,560, Cl. 73-116.000.
Otto, Wilhelm, 4,643,643, Cl. 416-154.000.
Sadler, Karl-Otto; Schmidt, Willy; and Franz, Hans-Joachim, 4,709,646, Cl. 114-5.000.
Schlichthorst, Norbert, 4,678,439, Cl. 440-11.000.
Schlichthorst, Norbert, 4,702,189, Cl. 114-61.000.
Wagemann, Harry, 4,696,651, Cl. 440-88.000.

Blok, Glen R.: *See—*
Pratt, Robert H.; and Blok, Glen R., 4,655,739, Cl. 493-357.000.

Bloker, Raymond E.: *See—*
Shrivastava, Rituparna; Bloker, Raymond E.; and Jenne, Fred B., 4,647,956, Cl. 357-42.000.

Blokh, Leonid; and Spector, George. Apparatus for manufacturing elastic rings. 4,659,058, 4-21-87, Cl. 249-119.000.

Blom, C. James, to Roxor Corporation. Shade for segmented rear view mirror. 4,636,046, 1-13-87, Cl. 350-613.000.

Blom, C. James, to Roxor Corporation. Elimination of internal reflections and diffractions from junctures in, and at the periphery of, a segmented mirror. 4,641,933, 2-10-87, Cl. 350-613.000.

Blom, C. James, to Roxor Corporation. Elimination of internal reflections and diffractions from junctures in, and at the periphery of, a segmented mirror. 4,663,514, 5-5-87, Cl. 219-121.0LN.

Blom, C. James, to Roxor Corporation. Elimination of internal reflections and diffractions from junctures in, and at the periphery of, a segmented mirror. 4,674,850, 6-23-87, Cl. 350-613.000.

Blom, C. James, to Roxor Corporation. Method of constructing a segmented mirror. 4,678,280, 7-7-87, Cl. 350-320.000.

Blom, Friedrich: *See—*
  Hassmann, Werner; and Blom, Friedrich, 4,650,411, Cl. 425-174.80E.

Blomback, Birger; and Okada, Masahisa, to New York Blood Center, Inc. Fibrin gel-containing filter. 4,640,778, 2-3-87, Cl. 210-484.000.

Blomberg, Folke I.; and Holst, Jan-Olov M. Electronic wheel slip sensor for vehicle brake systems. 4,635,031, 1-6-87, Cl. 340-52.00R.

Blomberg, Folke I.; and Holst, Jan-Olov M. Braking force modulator. 4,636,011, 1-13-87, Cl. 303-115.000.

Blomberg, Peter E., to AB Electrolux. Safety arrangement in a gas operated apparatus. 4,656,837, 4-14-87, Cl. 62-236.000.

Blomberg, Peter E.; and Gurt, Sven A., to AB Electrolux. Absorption refrigerator for ice-making. 4,691,529, 9-8-87, Cl. 62-332.000

Blomberg Robotertechnik GmbH: *See—*
  Richter, Hans, 4,708,578, Cl. 414-720.000.

Blome, Eugene R., to General Signal Corporation. Processing, shipping and/or storage container for photomasks and/or wafers. 4,679,689, 7-14-87, Cl. 206-334.000.

Blome, Victor S. Fluid dynamic exerciser. 4,659,078, 4-21-87, Cl. 272-128.000.

Blommaert, Paul A. G., to Total Compagnie Francaise des Petroles. Consistometer container for testing rheologically evolutive material. 4,633,708, 1-6-87, Cl. 73-59.000.

Blomquist, Arthur G.: *See—*
  Harris, Robert M.; and Blomquist, Arthur G., 4,700,653, Cl. 114-316.000.

Blomquist, James E.; and Wilczewski, Robert H. Dot matrix print head. 4,641,981, 2-10-87, Cl. 400-124.000.

Blomquist, Leonard A.: *See—*
  Bartimes, George F.; and Blomquist, Leonard A., 4,637,600, Cl. 271-93.000.

Blomqvist, Ake; and Linick, James. Cannon-launched projectile scanner. 4,679,748, 7-14-87, Cl. 244-3.190.

Blomqvist, Berthold, to Steelform Invent AB. Cutting tools. 4,646,437, 3-3-87, Cl. 30-166.00A.

Blomqvist, Erik M., to AB Lyckeaborg Bruk. Radiation protective device for the lead-through of cables. 4,677,253, 6-30-87, Cl. 174-35.00R.

Blomqvist, Seppo; Liimatainen, Heikki U.; Sundstrom, Kaj; and Vahteri, Risto T., to Oy Tampella Ab. Method for regulation of grinding process in a pocket grinder. 4,688,725, 8-25-87, Cl. 241-28.000.

Blomstedt, John W.; Yoshida, Paul S.; Irving, Wesley F.; and Roudenko, Vladimir, to Honeywell Information Systems Inc. Integrated backplane. 4,685,032, 8-4-87, Cl. 361-412.000.

Blond, Marcel; and Dufau, Philippe, to Valeo. Clutch mechanism. 4,666,024, 5-19-87, Cl. 192-70.160.

Blond, Marcel, to Valeo. Clutch friction disc. 4,688,666, 8-25-87, Cl. 192-106.200.

Blondel, Hubert. Sports ground, in particular tennis court or mini court formed by using removable panels. 4,650,180, 3-17-87, Cl. 272-3.000.

Blonder-Tongue Laboratories, Inc.: *See—*
  Mistry, Kantilal, 4,682,359, Cl. 380-7.000.

Blood Center of Southeastern Wisconsin, The: *See—*
  Kunicki, Thomas J.; and Montgomery, Robert R., 4,710,381, Cl. 424-101.000.

Blood, Peter, to U.S. Philips Corporation. Optical absorption spectroscopy for semiconductors. 4,678,989, 7-7-87, Cl. 324-158.00D.

Bloom, Daniel M.; Buccilli, Joseph A.; and Belentepe, Yilmaz C., to General Electric Company. R lamp having an improved dome portion for increasing the useful light output. 4,656,386, 4-7-87, Cl. 313-113.000.

Bloom, David M.; and Kolner, Brian H., to Stanford University. High speed testing of electronic circuits by electro-optic sampling. 4,681,449, 7-21-87, Cl. 356-364.000.

Bloom, Frank: *See—*
  Gowda, Hanumaiah L.; Cheever, Charles J.; and Bloom, Frank, 4,694,213, Cl. 310-90.000.

Bloom, Ira D.: *See—*
  Nelson, Paul A.; Bloom, Ira D.; and Roche, Michael F., 4,659,637, Cl. 429-104.000.

Bloom, Leonard: *See—*
  Sober, Norman, 4,674,987, Cl. 446-170.000.

Bloom, Leslie E., to VSP, Inc. Camera output data correction apparatus. 4,663,666, 5-5-87, Cl. 358-166.000.

Bloom, Leslie E., to VSP, Inc. Interlace/non-interlace data converter. 4,698,674, 10-6-87, Cl. 358-140.000.

Bloom, Robert D.; Carrington, James E.; Ide, Richard A.; Traglia, Patrick J.; and Westcott, Gerald R., to International Business Machines Corporation. Band printer control system architecture. 4,649,501, 3-10-87, Cl. 364-519.000.

Bloom, Stanley; and Hockings, Eric F., to RCA Corporation. Cathode-ray tube having a focusing color-selection structure and a viewing screen formed therefrom. 4,651,051, 3-17-87, Cl. 313-409.000

Bloom, Stanley: *See—*
  Alig, Roger C.; Bloom, Stanley; and Hockings, Eric F., 4,697,120, Cl. 313-412.000.

Bloom, Stephen A., to Sitting Pretty, Inc. Toilet bowl dispenser. 4,670,916, 6-9-87, Cl. 4-231.000.

Bloom, Terry R., to CTS Corporation. Electrically insulating substrate. 4,689,262, 8-25-87, Cl. 428-201.000.

Bloom, William G.: *See—*
  Gille, Henrick K.; Willing, Richard S.; Bloom, William G.; Siegel, Bernard; Cheung, Tsang; Lobodzinski, Richard; and Gilroy, Keith, 4,712,567, Cl. 128-771.000.

Bloomberg, Dan S.: *See—*
  Kowalski, Daniel C.; and Bloomberg, Dan S., 4,652,737, Cl. 250-201.000.

Bloomfield Industries, Inc.: *See—*
  Roberts, Melvin F., 4,641,011, Cl. 219-328.000.
  Roberts, Melvin F., 4,641,012, Cl. 219-331.000.
  Roberts, Melvin F., 4,650,158, Cl. 251-144.000.

Bloomfield, John W., III. Voice simulator. 4,691,360, 9-1-87, Cl. 381-70.000.

Bloomfield, Philip E.; and Preis, Seymour, to Pennwalt Corporation. Process of preparing nonfibrous, piezoelectric polymer sheet of improved activity. 4,692,285, 9-8-87, Cl. 264-22.000.

Bloomquist, Darrel R.; Drennan, George A.; Lawton, Robert J.; Opfer, James E.; and Jacobson, Michael B., to Hewlett-Packard Company. System and method for depositing plural thin film layers on a substrate. 4,663,009, 5-5-87, Cl. 204-192.200.

Bloomquist, Eric R.; and Dhital, Rajiv K., to Rasmussen Millwork, Inc. Grille fastener system and method of using the same. 4,644,721, 2-24-87, Cl. 52-456.000.

Bloomquist, Ted C., to IMED Corporation. Dual mode I.V. infusion device with distal sensor. 4,690,673, 9-1-87, Cl. 604-67.000.

Bloomster, Timothy G.: *See—*
  Babb, James L.; Bloomster, Timothy G.; and Rudbach, Jon A., 4,654,298, Cl. 435-4.000.

Bloor, Stephen T.: *See—*
  Clark, Peter J.; Hudd, Anthony W.; Bloor, Stephen T.; and Roller, Erling, 4,640,335, Cl. 164-440.000.

Bloothoofd, William, to Hercules Incorporated. Capped printing plate making machine. 4,638,758, 1-27-87, Cl. 118-412.000

Blose, Thomas L.; Chelette, K. Darrel; Ortloff, Donald J.; and Reeves, Doyle E., to Hydril Company. Tubular joint with trapped mid-joint metal-to-metal seal having unequal tapers. 4,662,659, 5-5-87, Cl. 285-334.000.

Blosl, Karl: *See—*
  Wolf, Horst; and Blosl, Karl, 4,699,208, Cl. 165-47.000.

Bloss, F. Donald, to Electro-tec Corporation. Automatic refractometer. 4,692,024, 9-8-87, Cl. 356-135.000.

Blosser, Gabe F.: *See—*
  Blosser, Henry G.; Burleigh, Richard J.; Blosser, Gabe F.; and Jemison, Emanuel B., 4,641,104, Cl. 328-234.000.

Blosser, Henry G.; and Milton, Bruce F., to Board of Trustees operating Michigan State University. Superconducting synchrocyclotron. 4,641,057, 2-3-87, Cl. 313-62.000.

Blosser, Henry G.; Burleigh, Richard J.; Blosser, Gabe F.; and Jemison, Emanuel B., to Board of Trustees operating Michigan State University. Superconducting medical cyclotron. 4,641,104, 2-3-87, Cl. 328-234.000.

Blot, Gerard, to Essilor International (Compagnie Generale d'Optique). Bearing ring for fixing a mounting block on the progressively variable curved finished face of a semi-finished lens or mold blank. 4,714,23 12-22-87, Cl. 249-90.000.

Blot, Jean-Claude, to Bendix France. Distribution valve assembly for a pneumatic brake booster. 4,712,468, 12-15-87, Cl. 91-376.00R.

Blotekjaer, Kjell: *See—*
  Brooks, Janet L.; Tur, Moshe; Youngquist, Robert C.; Kim, Byoung Y.; Wentworth, Robert H.; Shaw, Herbert J.; and Blotekjaer, Kjell, 4,699,513, Cl. 356-345.000.

Blotenberg, Wilfried: *See—*
  Albers, Rolf; and Blotenberg, Wilfried, 4,656,589, Cl. 364-431.020.

Blough, Leonard P., to Mesta Engineering Company. Plate levelling machine. 4,633,697, 1-6-87, Cl. 72-164.000.

Blouin, Joseph D.: *See—*
  Manning, Thomas J.; Ritzert, Jack L.; Blouin, Joseph D.; and Mowinski, Josephine A., 4,690,435, Cl. 285-256.000.

Blount, Curtis G.: *See—*
  Smith, Lonnie J.; Blount, Curtis G.; and Petermann, Steven G., 4,685,516, Cl. 166-65.100.

Blount, David H. Process for the production of epoxy silicate products. 4,663,363, 5-5-87, Cl. 521-154.000.

Blount, David H. Process for the production of cellular organic silicate products. 4,695,595, 9-22-87, Cl. 521-99.000.

Blount, David H. Process for the production of phenolic resins. 4,711,911, 12-8-87, Cl. 521-123.000.

Blount, Eldon R., Sr. Pre-heater for water heater. 4,671,253, 6-9-87, Cl. 126-437.000.

Blount, Emmitt; Exum, Edward L.; and Wooten, Murthis E. Ash catcher for fireplace insert. 4,706,648, 11-17-87, Cl. 126-243.000.

Bloxom, Ingrid B., Jr. Portable irrigation assembly. 4,692,158, 9-8-87, Cl. 604-260.000.

Bloxom, Ingrid B., Jr. Method for colonic and intestinal irrigation. 4,698,054, 10-6-87, Cl. 604-54.000.

Bloxwich Lock and Stamping Company Limited, The: *See—*
  Morris, Barry S., 4,715,090, Cl. 16-261.000.

oy, Graham P.; and Miramonti, John L., to Metme Communications. Analog-digital conversion system. 4,695,825, 9-22-87, Cl. 340-347.0SH.

oy, Vincente: *See—*

Frank-Neumann, Michel; Sedrati, Madjid; Vigneron, Jean-Pierre; and Bloy, Vincente, 4,677,218, Cl. 558-243.000.

oyce, Lionel T.; and Morley, Michael J., to Albany International Corp. Support and drive members suitable, for example, for use in shower units of papermaking machines. 4,674,684, 6-23-87, Cl. 239-123.000.

oyet, Emile: *See—*

Leprince, Philippe; Marec, Jean; Saada, Serge; Bloyet, Emile; and Migne, Jacques, 4,698,822, Cl. 372-70.000.

cher, William J.; Ernst, Richard J.; and Peterson, Francis C., to Illinois Tool Works Inc. Fastening assembly for roofs of soft material. ,642,012, 2-10-87, Cl. 411-371.000.

e Bell, Inc.: *See—*

Barrett, Joe H., II, 4,676,561, Cl. 439-37.000.

Kellogg, Robert L.; Zimmerman, Roger W.; and Bryan, Carney J., 4,708,073, Cl. 112-262.300.

Martin, Robert J., 4,707,612, Cl. 250-568.000.

Sudderth, William H.; and Vos, Gary, 4,642,924, Cl. 38-102.200.

e Box Toy Factory Limited: *See—*

Udagawa, Yoshio, 4,708,685, Cl. 446-139.000.

e Circle Industries, PLC: *See—*

Matthews, Kenneth B.; Beckett, Christine A.; Smith, David E., and Davidson, Richard R., 4,711,727, Cl. 210-727.000.

e Mountain Products, Inc.: *See—*

Cunning, Joseph M., 4,700,892, Cl. 239-289.000.

e Streak, Inc.: *See—*

Woolsey, Charles F., 4,706,445, Cl. 56-14.700.

e Water Research, Inc.: *See—*

Shaw, Bryon, 4,698,933, Cl. 43-43.120.

Shaw, Byron, 4,702,033, Cl. 43-43.120.

ff Welding Inc.: *See—*

Sherrod, Danny, 4,689,846, Cl. 14-71.300.

m, Albert. Ground effect vehicle. 4,712,630, 12-15-87, Cl. 80-117.000.

m, Alvin S.: *See—*

Williams, W. Samuel; Hadley, David L.; Macia, Narciso F.; and Blum, Alvin S., 4,665,911, Cl. 128-204.210.

m, Arnold, to International Business Machines Corporation. Method and apparatus for bus arbitration in a data processing system. ,669,079, 5-26-87, Cl. 370-85.000.

m, Arnold, to International Business Machines Corp. Built-in paral- l testing circuit for use in a processor. 4,688,222, 8-18-87, Cl. 71-25.000.

m, Arthur M. Electronic device and method for the treatment of uttering. 4,662,847, 5-5-87, Cl. 434-185.000.

m & Co., Maschinen- und Apparatebau GmbH: *See—*

Blum, Gunter, 4,648,315, Cl. 99-455.000.

m, David B.: *See—*

Mednick, R. Lawrence; and Blum, David B., 4,639,470, Cl. 518-700.000.

m, David M., to American Cyanamid Company. Process for pro- ucting 10-phenyl-10H-phenoxaphoshine. 4,698,447, 10-6-87, Cl. 68-12.000.

m, Dietmar, to Julius Blum Gesellschaft m.b.H. Drilling and mount- g machine for furniture production. 4,692,973, 9-15-87, Cl. 29-3.00K.

m, Dominique; Grandmottet, Pierre; and Bechtel, Pierre, to Blum, Dominique. Portable apparatus for acquiring and processing data elative to the dietetics and/or the health of a person. 4,686,624, -11-87, Cl. 364-415.000.

m, Gunter, to Blum & Co., Maschinen- und Apparatebau GmbH. Device for tempering chocolate masses and the like. 4,648,315, -10-87, Cl. 99-455.000.

m, Helmut: *See—*

Tesmann, Holger; Blum, Helmut; and Koester, Rita, 4,702,823, Cl. 209-166.000.

m, Holger; and Dreesmann, Gernot. Process for obtaining hydro- hloric salts of 2, 5, 6-triamino-4 (1h)-pyrimidinone. 4,670,561, 6-2-87, l. 544-320.000.

m, Klaus D.: *See—*

Kircher, Dieter; von Gruenberg, Hubertus; Blum, Klaus D.; and Becker, Peter, 4,658,939, Cl. 188-156.000.

Kircher, Dieter; von Gruenber, Hubertus; and Blum, Klaus D., 4,702,531, Cl. 303-114.000.

m, Klaus-Dieter; and Schmitt, Wolfgang, to Alfred Teves GmbH. Device for testing the correct functioning of a slip-controlled brake ystem. 4,699,001, 10-13-87, Cl. 73-121.000.

m, Klaus-Dieter: *See—*

Seibert, Wolfram; and Blum, Klaus-Dieter, 4,702,336, Cl. 180-197.000.

m, Manfred. Heating bed. 4,663,516, 5-5-87, Cl. 219-217.000.

m, Mel: *See—*

Hollander, Gary T.; and Blum, Mel, 4,652,577, Cl. 514-373.000.

Hollander, Gary T.; and Blum, Mel, 4,661,504, Cl. 514-373.000.

m, Patricia R.: *See—*

Bremer, Noel J.; Dria, Dennis E.; Milberger, Ernest C.; Blum, Patricia R.; and Nicholas, Mark L., 4,647,673, Cl. 549-260.000.

m, Richard S. Pill dispenser. 4,640,560, 2-3-87, Cl. 312-234.100.

m, Richard S. Telephone security clamp. 4,647;726, 3-3-87, Cl. 79-438.000.

m, Robert B.; Gardlik, John M.; Janusz, John M.; and Rizzi, George ., to Procter & Gamble Company, The. Alpha-L-aspartyl-D-heteroaromatic-substituted glycine esters and amides useful as high intensity sweeteners. 4,692,513, 9-8-87, Cl. 530-801.000.

Blum, Samuel E., to International Business Machines Corporation. Process and apparatus for producing high purity oxidation on a semiconductor substrate. 4,674,442, 6-23-87, Cl. 118-719.000.

Blum, Seymour, to H-G Toys Inc. Method of producing a plastic baseball bat or the like having metallic appearance. 4,644,630, 2-24-87, Cl. 29-453.000.

Blum, Stephen C.; and Deriso, John, to Motorola, Inc. Filled resonant cavity filtering apparatus. 4,691,179, 9-1-87, Cl. 333-202.000.

Blum, Victor; Crabtree, Timothy L.; and Fairchild, Robert G., to Odetics, Inc. Videocassette handling and sequencing system. 4,654,727, 3-31-87, Cl. 360-71.000.

Blum, Victor, to Odetics, Inc. System for writing and reading digital data interspersed with analog audio frequency data on magnetic recording tape. 4,663,678, 5-5-87, Cl. 360-72.200.

Bluma, David A.: *See—*

Nolan, Dennis C.; and Bluma, David A., 4,716,348, Cl. 318-479.000.

Blumbach, Rainer: *See—*

Rake, Heinrich; Hoffmann, Ulrich; Muller, Ulrich; Breddermann, Rudolf; and Blumbach, Rainer, 4,639,853, Cl. 364-149.000.

Blumberg, Baruch S.: *See—*

Venkateswaran, Pinayur S.; Millman, Irving; and Blumberg, Baruch S., 4,673,575, Cl. 424-195.100.

Blumberg, Marvin R. Vending machine for video cassettes. 4,668,150, 5-26-87, Cl. 414-273.000.

Blumcraft of Pittsburgh: *See—*

Horgan, William J., Jr., 4,680,903, Cl. 52-127.800.

Horgan, William J., Jr., 4,688,406, Cl. 70-100.000.

Horgan, William J., Jr., 4,711,480, Cl. 292-336.300.

Blume, Axel: *See—*

Pommer, Fredi; and Blume, Axel, 4,664,089, Cl. 123-585.000.

Blume, George H.: *See—*

Franco-Ferreira, Edgard A.; and Blume, George H., 4,675,966, Cl. 29-157.10R.

Blume, Hans-Juergen C., to United States of America, National Aeronautics and Space Administration. Measurement apparatus and procedure for the determination of surface emissivities. 4,645,358, 2-24-87, Cl. 374-9.000.

Blume, Orville E., to Aero Transportation Products, Inc. Latch device for railcar hatch covers. 4,635,979, 1-13-87, Cl. 292-256.500.

Blumel, David B.; and Deutsch, Albert S., to Fairmount Chemical Company. Contrast enhancement layer composition with naphthoquinone diazide, indicator dye and polymeric binder. 4,672,021, 6-9-87, Cl. 430-191.000.

Blumel, Ehrenfried; Gahlau, Heinemann; Hoffmann, Manfred; Wittenmayer, Klaus; Stankiewicz, Thomas; and Kittel, Christoph, to Dr. Alois Stankiewicz GmbH. Interior noise reduction in motor vehicles. 4,663,381, 5-5-87, Cl. 524-426.000.

Blumenau, Leif: *See—*

Rappaport, Michael L., and Blumenau, Leif, 4,713,945, Cl. 62-514.00R.

Blumenfeld, John F., to Emhart Industries, Inc. Electric heating of glass forehearth. 4,655,812, 4-7-87, Cl. 65-346.000.

Blumenfeld, John F., to Emhart Industries, Inc. Glass temperature preconditioning system in a distribution channel. 4,662,927, 5-5-87, Cl. 65-162.000.

Blumenfeld, John F.; and Bubon, Frank, to Emhart Industries, Inc. Glass forehearth. 4,680,051, 7-14-87, Cl. 65-346.000.

Blumenfeld, Martin A.; and Bibby, Thomas F. A., Jr., to RCA Corporation. Method for planarizing multilayer semiconductor devices. 4,666,553, 5-19-87, Cl. 156-643.000.

Blumenkranz, Robert M.; and Gibbons, Mark A., to General Instrument Corporation. Method and system of enhancing performance of feedforward amplifiers. 4,694,258, 9-15-87, Cl. 330-2.000.

Blumenkranz, Stephen J.: *See—*

Kennedy, William S.; and Blumenkranz, Stephen J., 4,671,379, Cl. 181-106.000.

Blumenstein, Gary M.: *See—*

Gatechair, Leslie R.; Blumenstein, Gary M.; and Schirmann, Peter J., 4,707,432, Cl. 430-281.000.

Blumenthal, Guenter, to Bochumer Eisenhuette Heintzmann GmbH & Co. Arrangement for supervising synchronous displacement of the pistons of two cylinder-and-piston units. 4,657,443, 4-14-87, Cl. 405-302.000.

Blumenthal, Jack L.; Brooks, Edward F.; and McKenna, Quentin H., to TRW Inc. Viscosifier, its uses, and its manufacture. 4,689,161, 8-25-87, Cl. 252-29.000.

Blumenthal, Jack L.: *See—*

Burk, Maksymilian; and Blumenthal, Jack L., 4,642,125, Cl. 48-197.00R.

Burk, Maksymilian; and Blumenthal, Jack L., 4,710,483, Cl. 502-185.000.

Blumenthal, Michael B. Pressure modifying system. 4,643,214, 2-17-87, Cl. 137-12.000.

Blumentritt, Martin; Reule, Alfred; and Bittner, Reinhold, to Carl-Zeiss-Stiftung. Wavelength multi/demultiplexer. 4,703,472, 10-27-87, Cl. 370-3.000.

Blumer, David J., to Cities Service Oil & Gas Corporation. Composition and method for slowly dissolving siliceous material. 4,703,803, 11-3-87, Cl. 166-300.000.

Blumle, Martin, to Winkler & Dunnebier Maschinenfabrik und Eisengiesserei GmbH & Co. KG. Suction roller. 4,666,145, 5-19-87, Cl. 271-276.000.

Blumle, Martin, to Winkler & Dunnebier Maschinenfabrik und Eisengiesserei GmbH & Co. KG. Apparatus for cutting out windows in envelopes. 4,671,152, 6-9-87, Cl. 83-152.000.

Blumle, Martin: *See—*
  Stemmler, Kurt; and Blumle, Martin, 4,648,503, Cl. 198-410.000.

Blumler, Norbert: *See—*
  Busen, Dietmar; Schluter, Helmut; Weghmann, Arnold; Blumler, Norbert; and Tecl, Bohuslav, 4,708,756, Cl. 156-143.000.

Blumstein, Robert M.: *See—*
  Kapoor, Anoop; Choby, Edward J.; Kramer, Thomas J.; Ranieri, James E.; Roth, Charles H., Jr.; Scheffer, Donald E.; Spehar, John E., Jr.; Bessko, Csaba; and Blumstein, Robert M., 4,715,111, Cl. 29-723.000.

Blunck, Martin; Claussen, Uwe; Krock, Friedrich W.; and Neeff, Rutger, to Bayer Aktiengesellschaft. Anthraquinone dyestuffs, their preparation and use and dichroic material containing these anthraquinone dyestuffs. 4,689,171, 8-25-87, Cl. 252-299.100.

Blunden, Donald J., to Thrall Car Manufacturing Company. Railroad car with chock block apparatus for securing transported vehicles. 4,668,140, 5-26-87, Cl. 410-10.000.

Blunden, Donald J., to Thrall Car Manufacturing Company. Railroad car with chock block apparatus for securing vehicles being transported. 4,674,929, 6-23-87, Cl. 410-30.000.

Blunden, Donald J., to Thrall Car Manufacturing Company. Vehicle chock block apparatus for railroad car transport of vehicles. 4,679,974, 7-14-87, Cl. 410-30.000.

Blurton, Peter: *See—*
  Brown, Thomas H.; and Blurton, Peter, 4,663,331, Cl. 514-326.000.

Bluvstein, Dale C. Control circuit to inhibit harmful transmission shifting. 4,641,722, 2-10-87, Cl. 180-271.000.

Bluzer, Nathan, to Westinghouse Electric Corp. Three dimensional optical receiver having programmable gain control. 4,636,980, 1-13-87, Cl. 365-106.000.

Bluzer, Nathan; and Halvis, James, to United States of America, Air Force. CCD gate definition process. 4,652,339, 3-24-87, Cl. 156-661.100.

Bluzer, Nathan; and Lampe, Donald R., to Westinghouse Electric Corp. Charge transfer device having an improved read-out portion. 4,672,645, 6-9-87, Cl. 377-60.000.

Bly, Herbert A. Retaining clip for peg board hook. 4,645,154, 2-24-87, Cl. 248-220.400.

Bly, Tom C., to Johnson Service Company. Method of injection molding and plastic part formed thereby. 4,709,757, 12-1-87, Cl. 165-173.000.

Blyler, Lee L., Jr., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Optical fiber cable. 4,691,989, 9-8-87, Cl. 350-96.230.

Blytas, George C.; and Grimsby, F. Norman, to Shell Oil Company. Process for the production of dichlorohydrin and the electrodialysis thereof. 4,657,647, 4-14-87, Cl. 204-182.400.

Blytas, George C.; and Shain, Stephen A., to Shell Oil Company. Process for the production of dichlorohydrin. 4,665,240, 5-12-87, Cl. 568-847.000.

Blytas, George C.; Grimsby, F. Norman; and Scamehorn, John F., to Shell Oil Company. Process for the production of dichlorohydrin. 4,696,726, 9-29-87, Cl. 204-182.400.

Blytas, George C., to Shell Oil Company. Process for the production epichlorohydrin. 4,704,463, 11-3-87, Cl. 549-521.000.

Blytas, George C.; and Trogus, Frank J., to Shell Oil Company. Reduction of sodium in coal by water wash and ion exchange with a weak electrolyte. 4,705,530, 11-10-87, Cl. 44-1.00R.

Blytas, George C., to Shell Oil Company. Reduction of sodium in coal by water wash followed by ion exchange within a pipeline. 4,705,531, 11-10-87, Cl. 44-1.00R.

Blytas, George C.: *See—*
  Fong, Howard L.; Diaz, Zaida; and Blytas, George C., 4,664,902, Cl. 423-567.00A.
  Fong, Howard L.; Diaz, Zaida; and Blytas, George C., 4,705,676, Cl. 423-567.00A.

Blyth Holographics Limited: *See—*
  Blyth, Jeffrey, 4,685,768, Cl. 350-320.000.

Blyth, Jeffrey, to Blyth Holographics Limited. Color control in holograms. 4,685,768, 8-11-87, Cl. 350-320.000.

Blyth, Randolph C.; and Ucci, Pompelio A., to Monsanto Company. Stain resistant nylon fibers. 4,680,212, 7-14-87, Cl. 428-97.000.

Blythe, Glen H.: *See—*
  Benko, John C.; and Blythe, Glen H., 4,699,119, Cl. 126-20.000.

Blythin, David J., to Schering Corporation. Substituted spiro pyridine derivatives as anti-allergy and antiinflammatory agents. 4,652,564, 3-24-87, Cl. 514-248.000.

Blythin, David J.; and Watkins, Robert W., to Schering Corporation. Tricyclic positive inotropic agents. 4,680,297, 7-14-87, Cl. 514-293.000.

Blythin, David J., to Schering Corporation. Tricyclic anti-allergy and use as anti-inflammatory agents. 4,680,298, 7-14-87, Cl. 514-293.000.

Blythin, David J.; and Shue, Ho-Jane, to Schering Corporation. Zwitterionic 1,8-naphthyridine and pyrazino[2,3-b]pyridine containing compounds useful as anti-allergic, anti-inflammatory and cycloprotective agents. 4,684,727, 8-4-87, Cl. 544-127.000.

BMC Manufacturing Inc.: *See—*
  Schurch, Richard C., 4,715,508, Cl. 220-7.000.

BMD Badische Maschinenfabrik Durlach GmbH: *See—*
  Weis, Martin; and Scholz, Adolf, 4,688,586, Cl. 134-80.000.

BMP: *See—*
  Holz, Gary L.; and Foster, Walter M., 4,714,958, Cl. 358-166.000.

Bo, Helge. Formwork system. 4,643,387, 2-17-87, Cl. 249-193.000.

Boade, Rodney R., to Phillips Petroleum Company. Method of fracturing subsurface formations. 4,662,451, 5-5-87, Cl. 166-299.000.

Boag, James T., to Colorado Medical, Inc. Dialyzer reuse system. 4,695,385, 9-22-87, Cl. 210-636.000.

Boains, Maurice, Jr. Lawn mower blade safety assembly. 4,696,15 9-29-87, Cl. 56-295.000.

Boan, Bobby J.; and Croswell, William F., to Harris Corporatio Waveguide fed composite horn antenna. 4,700,195, 10-13-87, C 343-786.000.

Boar, Bernard R.: *See—*
  Janssens, Frans E.; Van Offenwert, Theophilus T. J. M.; Stokbroekx, Raymond A.; and Boar, Bernard R., 4,689,330, C 514-321.000.

Board of Governers of Wayne State University: *See—*
  Rossmoore, Harold W., 4,666,616, Cl. 252-11.000.

Board of Governors for Higher Education State of Rhode Island an Providence Plantations, The: *See—*
  Barnett, Stanley M.; and Bradley, Kenneth A., 4,654,305, C 435-246.000.
  Krul, William R., 4,714,679, Cl. 435-240.480.

Board of Governors of Ryerson Polytechnical Institute, The: *See—*
  Woo, Kenneth; and Mamak, Z., 4,696,449, Cl. 248-553.000.

Board of Governors of Wayne State University, The: *See—*
  Rossmoore, Harold W., 4,707,282, Cl. 252-11.000.
  Rossmoore, Harold W., 4,708,808, Cl. 252-11.000.

Board of Reagents, The University of Texas System Cancer Cente The: *See—*
  Reading, Christopher L., 4,714,681, Cl. 435-240.270.

Board of Regents, The University of Texas, The: *See—*
  Linner, John G., 4,676,070, Cl. 62-64.000.
  Linner, John G.; and Livesey, Stephen, 4,707,998, Cl. 62-349.00
  Sirbasku, David A.; and Ikeda, Tatsuhiko, 4,670,539, C 530-324.000.

Board of Regents, The University of Texas System, The: *See—*
  Albrecht, Thomas; and Steinsland, Odd S., 4,663,317, C 514-211.000.
  Alderete, John F., 4,707,442, Cl. 435-7.000.
  Bailey, Rick S.; and Holly, Arthur C., 4,712,060, Cl. 324-83.00R
  Boddie, Arthur W., Jr.; Frazer, James W.; and Yamanashi, Willia S., 4,674,481, Cl. 128-1.300.
  Cantrell, C. D., III; and Peterson, G. L., 4,690,742, Cl. 204-157.20
  Folkers, Karl; Jie-Cheng, Xu; and Bowers, Cyril Y., 4,642,332, C 530-313.000.
  Folkers, Karl; Jie-Cheng, Xu; and Bowers, Cyril Y., 4,656,247, C 530-313.000.
  Kondraske, George V.; and Shennib, Adnan, 4,674,112, C 379-96.000.
  Ophir, Jonathan, 4,669,482, Cl. 128-660.000.
  Serwer, Philip, 4,693,804, Cl. 204-182.100.
  Sherry, A. Dean, 4,639,365, Cl. 424-9.000.
  Uhr, Jonathan W.; and Vitetta, Ellen S., 4,664,911, Cl. 424-85.00
  Vaughn, Mark R., 4,710,035, Cl. 384-115.000.
  Viegas, Steven F.; Tencer, Allan F.; Woodard, Peggy; and Gayn Sue, 4,662,364, Cl. 128-87.00R.
  Wright, Woodring E., 4,659,663, Cl. 435-172.200.

Board of Regents, University of Texas System: *See—*
  Goux, Warren J., 4,656,133, Cl. 435-72.000.

Board of Regents, University of Washington: *See—*
  Auth, David C.; Lawrence, Dale M.; and Majoch, Tim R 4,691,703, Cl. 128-303.100.

Board of Trustees, Leland J. Stanford University: *See—*
  Fan, Tso Y.; and Byer, Robert L., 4,701,928, Cl. 372-68.000

Board of Trustees operating Michigan State University: *See—*
  Blosser, Henry G.; and Milton, Bruce F., 4,641,057, Cl. 313-62.00
  Blosser, Henry G.; Burleigh, Richard J.; Blosser, Gabe F.; and Jemison, Emanuel B., 4,641,104, Cl. 328-234.000.

Boardman Molded Products, Inc.: *See—*
  Kessler, Ronald N.; and Ullman, Myron E., 4,682,704, C 215-329.000.
  Ullman, Myron, 4,711,360, Cl. 215-235.000.

Boardman, Paul A. Armchair with tilting seat. 4,637,654, 1-20-87, C 297-337.000.

Boardwalk Regency Corporation: *See—*
  Patroni, Anthony J., 4,641,992, Cl. 403-382.000.

Boas, Arthur J.: *See—*
  Magi, Hugo; Boas, Arthur J.; and Waese, Jerry R., 4,636,847, C 358-101.000.

Boast, Carl A., to Ciba-Geigy Corporation. Method of treating cerebr ischemia using 4-(phosphono substituted lower alkyl or lower a kenyl)piperazine-2-carboxylic acids and salts, esters and amid thereof. 4,705,781, 11-10-87, Cl. 514-85.000.

Boateng, Daniel A. D.: *See—*
  Ball, Donald L.; and Boateng, Daniel A. D., 4,636,295, C 204-182.400.
  Ball, Donald L.; and Boateng, Daniel A. D., 4,715,939, C 204-182.400.

Boates, Roger W.: *See—*
  Kerber, William O.; Boates, Roger W.; and Sanwo, Ikuo 4,689,496, Cl. 307-269.000.

Boatner, Lynn A.: *See—*
  Sales, Brian C.; and Boatner, Lynn A., 4,699,889, Cl. 501-22.00

Boats of the Future, Inc.: *See—*
  May, Billy D., 4,697,373, Cl. 43-9.000.

Boatwright, David A.; and Widener, Wade H., to Westinghouse Ele tric Corp. End plug with truncated tapered leading end configura tion. 4,716,018, 12-29-87, Cl. 376-451.000.

Boatwright, David A.: *See—*
  Klapper, Kenneth K.; and Boatwright, David A., 4,641,408, Cl. 29-271.000.
Boatwright, John P., to Tektronix, Inc. Increased resolution counting circuit. 4,669,098, 5-26-87, Cl. 377-28.000.
Boaz, Premakaran T., to Ford Motor Company. Method of forming a glass sheet with a UV-base ceramic paint thereon. 4,684,388, 8-4-87, Cl. 65-24.000.
Boaz, Premakaran T., to Ford Motor Company. Method of forming a glass sheet with an oil-base ceramic paint thereon. 4,684,389, 8-4-87, Cl. 65-24.000.
Bobb, Clifford F., and Cobaugh, Robert F., to AMP Incorporated. High density ZIF card edge connector. 4,636,021, 1-13-87, Cl. 339-75.0MP.
Bobb, Lloyd C., to United States of America, Navy. Five-axis optical fiber gradiometer. 4,644,273, 2-17-87, Cl. 324-244.000.
Bobbie's Automatic Hair Shampooer, Inc.: *See—*
  Turner, Robert B., 4,674,902, Cl. 401-43.000.
Bobbio, Stephen M., to Allied Corporation. Etching of dielectric layers with electrons in the presence of sulfur hexafluoride. 4,680,087, 7-14-87, Cl. 156-643.000.
Bober, Henry T., to Xerox Corporation. Positive drive knife folder. 4,643,705, 2-17-87, Cl. 493-444.000.
Bober, Henry T.; and Doery, Michael S., to Xerox Corporation. Interactive system for signature production. 4,708,469, 11-24-87, Cl. 355-77.000.
Boberg, Michael: *See—*
  Angerbauer, Rolf; Boberg, Michael; Metzger, Karl G.; and Zeiler, Hans-Joachim, 4,686,216, Cl. 514-202.000.
oberski, William G.: *See—*
  Das, Suryya K.; Seiner, Jerome A.; Greigger, Paul P.; Jones, James E.; Schappert, Raymond F.; and Boberski, William G., 4,652,470, Cl. 427-407.100.
  Das, Suryya K.; Seiner, Jerome A.; Greigger, Paul P.; Jones, James E.; Schappert, Raymond F.; and Boberski, William G., 4,677,004, Cl. 427-407.100.
  Das, Suryya K.; Seiner, Jerome A.; Greigger, Paul P.; Jones, James E.; Schappert, Raymond F.; and Boberski, William G., 4,680,204, Cl. 427-407.100.
obey, Kenneth A., to Northern Telecom Limited. Packet transmission and reception via a shared DMA channel. 4,637,015, 1-13-87, Cl. 370-94.000.
obick, John H. Portable manually operated rescue and lowering cable. 4,687,077, 8-18-87, Cl. 182-235.000.
obkov, Jury G.: *See—*
  Lozinsky, Miron O.; Bobkov, Jury G.; Shinanjuk, Alla F.; Gevaza, Jury I.; Markovsky, Leonid N.; Kuznetsova, Galina A.; Markin, Valentin A.; Kleimenova, Natalya N.; Tentsova, Antonina I.; Motalov, Alexandr N.; Seredinin, Sergei B.; Katkov, Vladimir F.; Vinogradov, Vasily M.; and Kulinsky, Vladimir I., 4,691,046, Cl. 560-196.000.
oblitt, Wayne W., to United States of America, Navy. Method for cutting complex tooth profiles in a cylindrical, single-screw gate-rotor. 4,710,076, 12-1-87, Cl. 409-26.000.
bo, Donald E., Jr., to American Hospital Supply Corporation. Automatic infiltration detection system and method. 4,648,869, 3-10-87, Cl. 604-49.000.
bo, Melvin: *See—*
  Flagg, Elgin E.; and Bobo, Melvin, 4,644,806, Cl. 73-863.580.
bo, Roy A. Gas lift system. 4,711,306, 12-8-87, Cl. 166-372.000.
boli, Inc.: *See—*
  DeChristopher, Eugene L., 4,696,823, Cl. 426-496.000.
brick Washroom Equipment, Inc.: *See—*
  Keck, Henry C.; and Fujitaki, Roy K., 4,707,933, Cl. 34-97.000.
brovniczky, Bert: *See—*
  Maddock, William H.; and Bobrovniczky, Bert, 4,678,153, Cl. 248-229.000.
bry, Howard H. Isolator for power system instrument. 4,669,037, -26-87, Cl. 363-24.000.
bsein, Rex L.; and Bresson, Clarence R., to Phillips Petroleum Company. Water-based industrial cleaners. 4,663,082, 5-5-87, Cl. 52-530.000.
bsein, Rex L.: *See—*
  Shyr, Yen-Shin; Bobsein, Rex L.; and Johnson, Marvin M., 4,656,230, Cl. 525-338.000.
bst, Franz: *See—*
  Karpf, Kurt; and Bobst, Franz, 4,651,833, Cl. 173-136.000.
bst SA: *See—*
  Polliger, Edwin, 4,657,240, Cl. 271-250.000.
  Fuchs, Werner; and Rebeaud, Jean-Claude, 4,697,338, Cl. 29-799.000.
  Jaton, Jean-Philippe, 4,656,815, Cl. 53-475.000.
  Morisod, Jean-Bernard, 4,713,831, Cl. 377-8.000.
ylev, Leonid M.: *See—*
  Yantsen, Ivan A.; Bekishev, Kenes K.; Savchak, Orest G.; Klok, Alexandr B.; Zhanabaev, Tolgat M.; Pakshtas, Mechislav-Valentinas K.; Glotov, Boris N.; Fink, Garold K.; Timkin, Alexel F.; Zorin, Nikolai I.; and Bobylev, Leonid M., 4,658,913, Cl. 173-134.000.
C Group, Inc., The: *See—*
  Allen, Charles B.; Madsen, Scott T., and Paradice, William L., Jr., 4,652,287, Cl. 62-35.000.
  Demaray, Richard E., 4,676,994, Cl. 427-42.000.
  Dimock, Jack A.; and Woestenburg, Dirk P., 4,676,884, Cl. 204-298.000.
  Fruechte, Kevin M.; Andrejeski, Gary J.; and Braatz, Robert E., 4,648,427, Cl. 137-826.000.
  Jacobson, Stephen E., 4,711,772, Cl. 423-584.000.
  Jumeau, Elizabeth J., 4,706,700, Cl. 137-247.290.
  Latif, Sherif; Nieass, Christopher S.; and Warren, Peter A., 4,688,946, Cl. 366-182.000.
  LLoyd-Williams, Andrew, 4,696,681, Cl. 55-28.000.
  Lofredo, Antony, 4,689,962, Cl. 62-54.000.
  Maclean, Donald L.; Krishnamurthy, Ramachandran; and Lerner, Steven L., 4,687,498, Cl. 62-17.000.
  MacLean, Donald L.; Krishnamurthy, Ramachandran; and Lerner, Steven L., 4,689,062, Cl. 62-18.000.
  Schroeder, Gerhardt P., 4,637,384, Cl. 128-204.180.
  Schroeder, Gerhardt P., 4,699,137, Cl. 128-205.240.
  Stanescu, Mircea S.; Weinstein, David J.; and Cornelssen, Cornelius W., 4,648,914, Cl. 148-16.000.
  Tamhankar, Satish; and Weltmer, William R., 4,713,224, Cl. 423-219.000.
  Theisen, William M.; and Wiseman, Charles D., 4,702,003, Cl. 29-840.000.
  Wiseman, Charles D.; and Theisen, William M., 4,711,791, Cl. 427-96.000.
BOC Group, plc, The: *See—*
  Clow, Dereck, 4,715,998, Cl. 261-142.000.
  Garrett, Michael E., 4,639,340, Cl. 261-36.100.
  Makin, Ronald P., 4,686,354, Cl. 219-301.000.
  Marshall, John; and Oakey, John D., 4,638,638, Cl. 62-9.000.
  Marshall, John; and Oakey, John D., 4,638,639, Cl. 62-9.000.
  Montgomery, Frederick J., 4,652,408, Cl. 261-130.000.
  Sampson, David C., 4,714,090, Cl. 137-636.000.
  Smith, John M.; and Miles, James J., 4,657,710, Cl. 261-46.000.
Boca Raton Hotel and Club: *See—*
  Balazs, Michael A., 4,685,483, Cl. 135-102.000.
Bocard, Christian: *See—*
  Belluteau, Jean-Pierre; Bocard, Christian; Such, Christian; and Vaillant, Daniel, 4,678,558, Cl. 208-390.000.
Boccadoro, Yves; and Shuttler, Philippe, to Regie Nationale des Usines Renault. Process and device for regulating the rotation speed in neutral of a controlled ignition engine equipped with intermittently functioning accessories. 4,697,562, 10-6-87, Cl. 123-339.000.
Boccagno, George E.; Raterman, John M.; Hadzimihalis, Theo M.; and Scholl, Charles H., to Nordson Corporation. Thermoplastic grid melter. 4,666,066, 5-19-87, Cl. 222-146.500.
Boccalon, Gianfranco: *See—*
  Ascarelli, Paolo; Boccalon, Gianfranco; and De Antoniis, Mario, 4,652,497, Cl. 428-447.000.
Bocchi, Vittorio: *See—*
  Gardini, Gian P.; and Bocchi, Vittorio, 4,710,400, Cl. 427-121.000.
Bocchicchio, Keith A.; Jackson, Mark F.; Hall, David L.; and Paukovits, Edward J., Jr., to AMP Incorporated. Apparatus for clinching workpieces to a board. 4,649,633, 3-17-87, Cl. 29-739.000.
Bocchinfuso, Peter, to GenCorp Inc. Automobile weatherstripping. 4,702,039, 10-27-87, Cl. 49-490.000.
Bocci, Paul M.; Pietrzak, Carl M., Jr.; and Wilson, Alan L., to Motorola, Inc. Signal selection by statistical comparison. 4,710,945, 12-1-87, Cl. 375-100.000.
Bocci, Paul M.; Pietrzak, Carl M., Jr.; and Wilson, Alan L., to Motorola, Inc. Data detection by statistical analysis. 4,710,957, 12-1-87, Cl. 380-42.000.
Bocciarelli, Louis R.: *See—*
  Marchitto, Michael J.; and Bocciarelli, Louis R., 4,695,226, Cl. 416-106.000.
Bocek, John R.: *See—*
  Aslesen, Kerby S.; Bocek, John R.; Canfield, Dennis R.; and Liu, Ke-Tien, 4,689,989, Cl. 73-61.10R.
Bocek, Joseph M.: *See—*
  Hakala, Douglas T.; Bocek, Joseph M.; and Osborn, James G., 4,635,639, Cl. 128-419.00D.
Bocella, Ralph: *See—*
  Barabas, John; and Bocella, Ralph, 4,662,286, Cl. 108-17.000.
Bochi, Hiroshi; Ueda, Kenji; and Konishi, Satoshi, to Ishida Scales Mfg Co., Ltd. Automatic combinatorial weighting apparatus. 4,693,355, 9-15-87, Cl. 193-2.00R.
Bochi, Hiroshi: *See—*
  Fukuda, Masao; Kakita, Yukio; Ueda, Kenji; Terashima, Kiichi; and Bochi, Hiroshi, 4,711,345, Cl. 198-572.000.
Bochner, Barry R.; Olson, Kenneth C.; and Pai, Rong-Chang, to Genentech, Inc. Periplasmic protein recovery. 4,680,262, 7-14-87, Cl. 435-68.000.
Bochumer Eisenhuette Heintzmann GmbH & Co.: *See—*
  Blumenthal, Guenter, 4,657,443, Cl. 405-302.000.
Bochumer Eisenhutte Heintzmann GmbH & Co KG: *See—*
  Berger, Karl-Heinz, 4,693,640, Cl. 405-294.000.
Bochumer Eisenhutte Heintzmann GmbH & Co. Kg: *See—*
  Koppers, Manfred; Bohnes, Karlheinz; and Amling, Friedel, 4,640,650, Cl. 405-290.000.
Bock, Andre, to Arbed S.A. Method and apparatus for the acceleration of solid particles entrained in a carrier gas. 4,655,647, 4-7-87, Cl. 406-194.000.
Bock, Erich; and Rieger, Gerald, to Diehl GmbH & Co. Projectile with active components. 4,712,482, 12-15-87, Cl. 102-501.000.
Bock, Erich: *See—*
  Handschuch, Karl; and Bock, Erich, 4,697,409, Cl. 57-401.000.
  Mueller-Storz, Hans-Friedrich; and Bock, Erich, 4,633,664, Cl. 57-406.000.

Bock, Gernot: *See—*

Theurer, Josef; and Bock, Gernot, 4,655,142, Cl. 104-7.100.

Bock, Gustav: *See—*

Lotsch, Wolfgang; Bock, Gustav; and Neumann, Peter, 4,707,548, Cl. 544-284.000.

Bock, Jan; Brownawell, Darrell W.; Gutierrez, Antonio; Robbins, Max L.; Shaub, Harold; and Steyn, Peter L., to Exxon Research and Engineering Company. Lubricant oil composition with improved friction reducing properties. 4,684,473, 8-4-87, Cl. 252-49.800.

Bock, Jan; Siano, Donald B.; and Turner, S. Richard, to Exxon Research and Engineering Company. Hydrophobically associating terpolymers of acrylamide, salts of acrylic acid and alkyl acryiamide. 4,694,046, 9-15-87, Cl. 525-329.400.

Bock, Jan; Valint, Paul L.; and Pace, Salvatore J., to Exxon Research and Engineering Company. Enhanced oil recovery with hydrophobically associating polymers containing sulfonate functionality. 4,702,319, 10-27-87, Cl. 166-275.000.

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Bock, Jan: *See—*

Schulz, Donald N.; Duvdevani, Ilan; Bock, Jan; and Berluche, Enock, 4,650,848, Cl. 526-287.000.

Schulz, Donald N.; Berluche, Enock; Maurer, John J., and Bock, Jan, 4,663,408, Cl. 526-240.000.

Siano, Donald B.; and Bock, Jan, 4,673,716, Cl. 525-367.000.

Siano, Donald B.; and Bock, Jan, 4,694,058, Cl. 526-307.200.

Bock, Jurgen: *See—*

Munning, Hans; Bock, Jurgen; Oldach, Bernd; Ladic, Josef; Rauert, Max-Otto; Emde, Hugo; Petzsch, Dietrich; and de Baan, Johannes J., 4,660,686, Cl. 188-280.000.

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Bock, Lawrence A.: *See—*

Pastorino, Ronald L.; and Bock, Lawrence A., 4,692,427, Cl. 502-160.000.

Pastorino, Ronald L.; and Bock, Lawrence A., 4,711,909, Cl. 521-69.000.

Bock, Mark G.; DiPardo, Robert M.; Boger, Joshua S.; Evans, Ben E.; and Freidinger, Roger, to Merck & Co., Inc. Renin inhibitory peptides having improved solubility. 4,636,491, 1-13-87, Cl. 514-16.000.

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Boger, Joshua S.; and Bock, Mark G., 4,661,473, Cl. 514-16.000.

Bock Products: *See—*

Weber, Charles A., 4,678,011, Cl. 138-96.00R.

Bock, Rudolf. Hydraulic radial piston machine. 4,643,077, 2-17-87, Cl. 91-497.000.

Bock, Wolfgang: *See—*

Kortmann, Heinrich; and Bock, Wolfgang, 4,695,315, Cl. 75-0.50R.

Bocker, Albert, to Albert Bocker GmbH & Co. KG. Elevator comprising telescopic sections, and a locking device therefor. 4,640,387, 2-3-87, Cl. 182-213.000.

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Alig, Franz; Bocker, Heinrich; Neulinger, Franz; and Schummer, Helmut, 4,690,694, Cl. 55-4.000.

Bocker, Jurgen; Luther, Hans W.; Wallow, Peter; and Fritsch, Horst, to Rheinmetall GmbH. Subcaliber, armor piercing penetrator projectile. 4,697,525, 10-6-87, Cl. 102-518.000.

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Bocker, Richard P.; and Miceli, William J., to United States of America, Navy. Optical floating-point matrix-vector multiplier. 4,692,885, 9-8-87, Cl. 364-606.000.

Bocking, Bruce; Cervantes, Joe A., Jr.; Green, Douglas H.; La Sota, Bruce W.; Marshall, David H.; Rodriguez, Bernard; and Van Gorden, Glen. Auto-coupling tool for drill-pipes. 4,681,175, 7-21-87, Cl. 175-393.000.

Bockman, Richard S.; and Warrell, Raymond P., Jr., to Sloan-Kettering Institute for Cancer Research. Methods of treating bone disorders. 4,686,104, 8-11-87, Cl. 424-131.000.

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Bockmann, Klaus; Jager, Gerhard; Brandes, Wilhelm; and Reinecke, Paul, to Bayer Aktiengesellschaft. Cyclic azolylvinyl ether fungicides. 4,650,809, 3-17-87, Cl. 514-383.000.

Bocko, Peter L.; Thompson, David A.; and Wein, William J., to Corning Glass Works. Method for making sodium-containing glass. 4,645,524, 2-24-87, Cl. 65-18.100.

Bockrath, Richard E.; and Kirksey, Kirby, to Du Pont de Nemours, E. I., and Company. Destruction of nitrated aromatics. 4,708,806, 11-24-87, Cl. 210-754.000.

Bockwinkel, Gerald J.: *See—*

Niekrasz, Francis M.; Kasper, Melvin C.; and Bockwinkel, Gerald J., 4,641,461, Cl. 49-404.000.

Niekrasz, Francis M.; Kaspar, Melvin C.; and Bockwinkel, Gerald J., 4,656,781, Cl. 49-404.000.

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Balazs, Janos; Bocskor, Adam; Cseh, Otto; and Iring, Rezs

4,641,607, Cl. 122-360.000.

Boda, James C., to Brunswick Corporation. Throttle friction device fo outboard motor. 4,650,429, 3-17-87, Cl. 440-87.000.

Boda, John W., to Amerock Corporation. Towel ring assembly. 4,637,582, 1-20-87, Cl. 248-315.000.

Boda, Keiji; Waki, Kouichirou; and Yanagisawa, Keizo, to Mazd Motor Corporation; and Japan Automatic Transmission Co., Lt Control of a vehicle automatic transmission. 4,709,596, 12-1-87, Cl. 74-868.000.

Bodas, Sandor: *See—*

Csorba, Istvan; Szekely, Lajos; and Bodas, Sandor, 4,642,987, Cl. 60-641.200.

Boddeker, Karl: *See—*

Hilgendorff, Walter; Wenzlaff, Axel; Boddeker, Karl; Kahs, Ge hard; and Luhrs, Gunter, 4,650,574, Cl. 210-190.000.

Boddie, Arthur W., Jr.; Frazer, James W.; and Yamanashi, William S to Board of Regents, The University of Texas System. RF electr magnetic field generation apparatus for regionally-focused hype thermia. 4,674,481, 6-23-87, Cl. 128-1.300.

Boddie, Carl E., to Industrial Polymers, Inc. Method and compositi for repairing cementitious surfaces. 4,659,748, 4-21-87, Cl. 521-170.000.

Boddy, Ian; and Gurteen, Shaun, to Britax Wingard Limited. Exteri rearview mirrors for vehicles. 4,679,758, 7-14-87, Cl. 248-479.000.

Bode, Albert: *See—*

Tappe, Horst; Kruse, Hubert; Kuhn, Reinhard; Bode, Albert; an Boos, Margareta, 4,678,476, Cl. 8-639.000.

Bode, Daniel, to Glidden Company, The. Polyester and epoxy res coating. 4,683,273, 7-28-87, Cl. 523-412.000.

Bode, Dirk; and Sie, Swan T., to Shell Oil Company. Process for th preparation of hydrocarbons. 4,686,238, 8-11-87, Cl. 518-700.000.

Bode-Panzer: *See—*

Maxeiner, Heinz, 4,696,240, Cl. 109-82.000.

Bode, Robert E. Method and apparatus for placing cement plugs i wells. 4,674,573, 6-23-87, Cl. 166-291.000.

Bode, Werner; Franz, Peter; and Wilke, Heinrich, to Robert Bosc GmbH. Connection arrangement for armature conductors wi commutator segments, and connecting machine. 4,649,309, 3-10-87, Cl. 310-234.000.

Bode, Werner; Franz, Peter; Ross, Werner; and Schulze, Gunter, t Robert Bosch GmbH. Method of making a commutator ring having segments. 4,667,394, 5-26-87, Cl. 29-597.000.

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Boden, Heinrich; and Schneider, Walter, to Bayer Aktiengesellschaf Method and an apparatus for the production of shaped articles 4,714,579, 12-22-87, Cl. 264-328.600.

Boden, Heinrich: *See—*

Schulte, Klaus; Nadolski, Klaus; Ersfeld, Heinrich; Ebeling, Wi fried; Boden, Heinrich; and Schneider, Walter, 4,695,166, Cl. 366-160.000.

Boden, Karl; Ibach, Harald; and Linke, Udo, to Kernforschungsanlage Julich Gesellschaft mit beschrankter Haftung. Method of and apparatus for growing crystals. 4,708,764, 11-24-87, Cl. 156-617.00R.

Boden, Ogden W. Cord lock device. 4,639,978, 2-3-87, Cl. 24-134.00R

Boden, Richard M.; and Helm, John R., to International Flavors & Fragrances Inc. Organoleptic uses of bicyclononenyl alcoho 4,634,547, 1-6-87, Cl. 252-522.00R.

Boden, Richard M.; and Helm, John R., to International Flavors & Fragrances Inc. Oxobicyclononane derivatives, process for produc ing same and organoleptic uses thereof. 4,673,533, 6-16-87, Cl. 252-522.00R.

Boden, Richard M.; and Grim, Claude, to International Flavors & Fragrances Inc. Norbornyl pyridine derivatives. 4,677,207, 6-30-87, Cl. 546-348.000.

Boden, Richard M.: *See—*

Fujioka, Futoshi; Boden, Richard M.; and Schreiber, William L. 4,668,431, Cl. 252-522.00R.

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Sprecker, Mark A.; Schreiber, William L.; Fujioka, Futoshi; Boden, Richard M.; Vock, Manfred H.; Whelan, Patrick; and Hanna, Marie R., 4,636,333, Cl. 252-522.00R.

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Boden, Robert O. Racquet structure. 4,685,676, 8-11-87, Cl. 273-73.00D

nmiller, Anton: *See*—
chmidt, Helmut; Bodenmiller, Anton; and Straka, Alfred,
4,653,715, Cl. 248-281.100.
nseewerk Geratetechnic GmbH: *See*—
Kempas, Hagen, 4,665,605, Cl. 29-434.000.
nseewerk Geratetechnik GmbH: *See*—
Kordulla, Hans; Jansen, Dirk; and Schmid, Gunter, 4,700,065, Cl.
250-231.0SE.
Weber, Berthold; Giesenberg, Peter; and Steimel, Johannes,
4,639,589, Cl. 250-203.00R.
nseewerk Perkin-Elmer & Co., GmbH: *See*—
Huber, Bernhard, 4,640,677, Cl. 431-79.000.
nieck, Hans-Rudolf; Dobler, Karl-Otto; Hanel, Horst; Kohler,
rt; Liedtke, Frieder; and Seliger, Siegfried, to Robert Bosch
nbH. Headlight for a motor vehicle. 4,658,340, 4-14-87, Cl.
2-267.000.
ntab, Paul R., to Hewlett-Packard Company. Register circuit
d to load, hold, and dump digital logic signals. 4,703,457, 10-27-87,
365-189.000.
nsteiner, Donald A.; and Wenthold, David. Vacuum jet apparatus.
85,868, 8-11-87, Cl. 417-405.000.
t, Jean-Pierre; and Supiot, Gerard. Display apparatus having
otable segments. 4,663,870, 5-12-87, Cl. 40-449.000.
tka, George R.: *See*—
Dickey, Thomas A.; and Bodetka, George R., 4,712,372, Cl.
60-39.281.
tt, Peter C.: *See*—
Aldrich, Roger L.; Bodett, Peter C.; and Kelly, Richard E.,
4,641,502, Cl. 62-244.000.
wein, Jakob, to Jagenberg Aktiengesellschaft. Device for longitu-
ally cutting web material, especially paper and cardboard webs.
58,685, 4-21-87, Cl. 83-302.000.
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for removing edge strips from material webs of paper, cardboard
the like. 4,704,930, 11-10-87, Cl. 83-24.000.
wig, Peter, to M. K. Products, Inc. MIG/MAG welding machine
pulsed arc welding. 4,686,350, 8-11-87, Cl. 219-130.510.
, Ilona: *See*—
ildeg, Kalman; Hankovszky, Olga H.; Frank, Laszlo; Bodi, Ilona;
and Csak, Jozsef, 4,703,056, Cl. 514-414.000.
Gard Technologies, Inc.: *See*—
Jurrus, Eran J. P.; Russ, Geri A.; and Russ, Travis A., 4,643,791,
Cl. 156-251.000.
mer, Gilbert D.: *See*—
Vachhani, Vasantrai A.; and Bodimer, Gilbert D., 4,669,799, Cl.
439-404.000.
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n, Bernard: *See*—
Bsotto, Sylvette; Blanc, Jean-Philippe; Bodin, Bernard; and Pou-
jois, Robert, 4,677,594, Cl. 365-240.000.
n, Jacques: *See*—
Hullein, Francois; and Bodin, Jacques, 4,664,519, Cl. 356-152.000.
ne, Albert G.; and Gregory, James N. Sonic cementing. 4,640,360,
3-87, Cl. 166-286.000.
ne, Albert G. Vibrational isolation system for sonic pile driver.
645,017, 2-24-87, Cl. 173-162.00R.
ne, Albert G. Sonic method and apparatus for heap leaching.
652,309, 3-24-87, Cl. 75-101.00R.
ne, Albert G. Method and apparatus for the sonic cementing of
ells in porous formations. 4,653,587, 3-31-87, Cl. 166-286.000.
ine, Albert G. Drilling system and method employing torsional
nic vibration for lubrication of journal type bit bearings. 4,662,459,
5-87, Cl. 175-56.000.
ine, Albert G. Method for improving well production by sonically
iving granular medium installed in well. 4,665,980, 5-19-87, Cl.
6-249.000.
ine, Albert G. Down hole excitation system for loosening drill pipe
uck in a well. 4,667,742, 5-26-87, Cl. 166-301.000.
ine, Albert G. Method for sonically loosening oil well liner environ-
ents. 4,673,037, 6-16-87, Cl. 166-249.000.
ine, Albert G. Sonic drill employing orbiting crank mechanism.
693,325, 9-15-87, Cl. 175-55.000.
ine, Albert G. Cycloidal earth cutting system with rocker-type
tating action. 4,693,326, 9-15-87, Cl. 175-55.000.
ine, Albert G. Sonic impeller for sonic well pump. 4,695,231,
22-87, Cl. 417-241.000.
ine, Albert G. Method and apparatus for sonically stimulating oil
ells to increase the production thereof. 4,702,315, 10-27-87, Cl.
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ine, Albert G. Alternating current magneto hydrodynamic genera-
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ine, Albert G. Sonic method for facilitating the fracturing of
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67-35.000.
line Electric Company: *See*—
Oltendorf, Norman E.; and Marhoefer, Michael, 4,651,076, Cl.
318-696.000.
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on Research Company. Slidable electric valve device having a
pring. 4,681,298, 7-21-87, Cl. 251-129.100.
dine, Jane A.; Deihl, Charles J.; Deihl, Henry A.; Gramze, Paul E.;
nd Kiel, Monty, to Bodine, Jane A.; Deihl, Charles J.; Deihl, Henry
A.; and Gramze, Paul E. Golf course playing apparatus. 4,666,157,
19-87, Cl. 273-32.00H.
dine, John H.; Bork, Jonathan; Alford, Richard M.; Wright, James
L.; and Thomsen, Leon A., to Standard Oil Company, The. Method
of seismic exploration including processing and displaying seismic data to quantitatively distinguish among seismic events. 4,646,239, 2-24-87, Cl. 364-421.000.

Bodine, Rudolph H. Articulated hand splint with multiple pivot points. 4,660,550, 4-28-87, Cl. 128-77.000.

Bodinger, Donald C.: *See*—
Przybylinski, Philip G.; and Bodinger, Donald C., 4,633,787, Cl. 105-406.100.

Bodkin, Lawrence E. Universal fault circuit interrupter. 4,707,759, 11-17-87, Cl. 361-48.000.

Bodlaj, Viktor; Moustakas, Steven; and Witte, Hans-Hermann, to Siemens Aktiengesellschaft. Optical data bus having a statistical access method. 4,663,767, 5-5-87, Cl. 375-55.000.

Bodle, John G.; and Lungerhausen, Charles C., to General Dynamics Corp./Convair Division. Zero free-play joint for deployable space structures. 4,653,951, 3-31-87, Cl. 403-92.000.

Bodle, William W.; and Tarman, Paul B., to Institute of Gas Tehnology. Solvent extraction of organic oils and solvent recovery. 4,692,238, 9-8-87, Cl. 208-407.000.

Bodnar, Laszlo: *See*—
Gorog nee Privitzer, Katalin; Bodnar, Laszlo; Dudar, Erzsebet; Kocsis nee Bagi, Maria; Gaal, Sandor; Tasnadi, Marta; Egyhazi nee Csizmadia, Eva; Varga, Valeria M.; Kajati, Istvan; Kis, Gyorgy; Molnar, Janos; Toth, Bertalan; Cserhati nee Botka, Ilona; Kaptas, Tibor; and Csete, Sandor, 4,661,477, Cl. 514-76.000.
Gorog nee Privitzer, Katalin; Bodnar, Laszlo; Dudar, Erzsebet; Kocsis nee Bagi, Maria; Gaal, Sandor; Tasnadi, Marta; Egyhazi nee Csizmadia, Eva; Varga, Valeria M.; Kajati, Istvan; Kis, Gyorgy; Molnar, Janos; Toth, Bertalan; Cserhati nee Botka, Ilona; Kaptas, Tibor; and Csete, Sandor, 4,675,431, Cl. 558-218.000.

Bodnar, Steven A.: *See*—
Windstrup, Robert F.; Bodnar, Steven A.; and Larsen, B. Pershing, 4,650,412, Cl. 425-182.000.

Bodnar, Thomas R. Flanged valve connectors. 4,711,426, 12-8-87, Cl. 251-151.000.

Bodolus, Christopher L.; and Woodhead, David A., to Standard Oil Company, The. Novel rubber-modified thermoplastic resin compositions. 4,692,498, 9-8-87, Cl. 525-285.000.

Bodor, Janos; and Van Heteren, Jan, to Lever Brothers Company. Fat containing diglycerides. 4,656,045, 4-7-87, Cl. 426-601.000.

Bodor, Nicholas S.; and Ohshiro, Yasuo, to Otsuka Pharmaceutical Co. Ltd. Certain 3-pyridiniumesters of mono- or di-lower alkyl carbamates having anticholinesterase activity. 4,661,502, 4-28-87, Cl. 514-346.000.

Bodor, Nicholas S. Orally active heparin salts containing multivalent cationic units. 4,703,042, 10-27-87, Cl. 514-56.000.

Bodor, Nicholas S., to Otsuka Pharmaceutical Co., Ltd. Soft steroids having anti-inflammatory activity. 4,710,495, 12-1-87, Cl. 514-174.000.

Bodovsky, Paul W.; and Rodgers, Donald H., to Continental Conveyor & Equipment Co., Inc. Air filtering apparatus with roller assembly for cleaning. 4,710,207, 12-1-87, Cl. 55-290.000.

Bodson, Charles D.: *See*—
Deutermann, Alan R.; and Bodson, Charles D., 4,703,362, Cl. 358-263.000.

Bodson, Guy: *See*—
Gobert, Jean; Giurgea, Corneliu; Geerts, Jean-Pierre; and Bodson, Guy, 4,696,942, Cl. 514-424.000.
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Boe, Craig L., to Applied Magnetics Corp. Traversing apparatus for loading a magnetic head-loading arm assembly onto rotatable discs. 4,644,429, 2-17-87, Cl. 360-105.000.

BOE Limited: *See*—
Quazi, Fazle S., 4,693,805, Cl. 204-192.220.

Boe, Ove S.: *See*—
Rasmussen, Hilmar O.; Petersen, Jorgen H.; Boe, Ove S.; and Clausen, Peter J. M., 4,687,893, Cl. 219-10.410.

Boe, Richard A., to Automatic Safety Products. Liquid immersion alarm. 4,714,914, 12-22-87, Cl. 340-573.000.

Boebel, Manfred: *See*—
Hutterer, Frieder; Buess, Gerd; and Boebel, Manfred, 4,641,652, Cl. 128-334.00R.
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Boebert, William E.; and Kain, Richard Y., to Honeywell Inc. Secure data processing system architecture. 4,701,840, 10-20-87, Cl. 364-200.000.

Boebert, William E.; and Kain, Richard Y., to Honeywell Inc. Secure data processing system architecture with format control. 4,713,753, 12-15-87, Cl. 364-200.000.

Boeck, LaVerne D.; Clem, Gladys M.; Hershberger, Charles L.; Anderson, Marie T.; and Michel, Karl H., to Eli Lilly and Company. Glycopeptide antibiotic CUC/CSV and process for its production. 4,663,282, 5-5-87, Cl. 435-68.000.

Boeck, LaVerne D., to Eli Lilly and Company. Process for producing antibiotic A80190. 4,683,204, 7-28-87, Cl. 435-128.000.

Boeck, Leon W. Disc brake retractor. 4,662,483, 5-5-87, Cl. 188-72.300.

Boecker, George C., Jr. Offset anchor. 4,706,437, 11-17-87, Cl. 52-698.000.

Boecker, Juegen; Gersbach, Klaus; and Bethmann, Karl W., to Rheinmetall GmbH. Armor-piercing projectile. 4,677,915, 7-7-87, Cl. 102-517.000.

Boecker, Juergen; Luther, Hans W.; Wallow, Peter; and Fritsch, Horst, to Rheinmetall GmbH. Penetrator shell with stacked core elements. 4,635,556, 1-13-87, Cl. 102-518.000.

Boecker, Wolfgang D. G.; and Reini, George L., to STEMCOR Corporation. Sintered silicon carbide/carbon composite ceramic body having fine microstructure. 4,692,418, 9-8-87, Cl. 501-90.000.

Boecker, Wolfgang D. G.; and Korzekwa, Tadeusz M., to Kennecott Corporation. Single phase silicon carbide refractory. 4,693,988, 9-15-87, Cl. 501-89.000.

Boecker, Wolfgang D. G.; Hailey, Laurence N.; and McMurtry, Carl H., to Stemcor Corporation. Sintered silicon carbide ceramic body of high electrical resistivity. 4,701,427, 10-20-87, Cl. 501-92.000.

Boecker, Wolfgang D. G.: *See—*

Korzekwa, Tadeusz M.; McMurtry, Carl H.; and Boecker, Wolfgang D. G., 4,695,294, Cl. 51-307.000.

Boeckmann, Eduard F. B., to GTE Communication Systems Corporation. Temperature compensated reference circuit. 4,634,959, 1-6-87, Cl. 323-313.000.

Boeckmann, Eduard F. B., to GTE Communication Systems Corporation. Light emitting diode message waiting lamp circuit. 4,648,109, 3-3-87, Cl. 379-376.000.

Boeckmann, Eduard F. B., to GTE Communication Systems, Inc. Telephone line monitor amplifier. 4,672,664, 6-9-87, Cl. 379-395.000.

Boeckmann, Eduard F. B., to GTE Communication Systems, Inc. High performance telephone instrument with combination pulse and tone dialing capacity. 4,675,902, 6-23-87, Cl. 379-394.000.

Boeckmann, Eduard F. B., to GTE Communication Systems, Inc. Telephone security violation detection device. 4,680,783, 7-14-87, Cl. 379-6.000.

Boeckmann, Hugo; Lems, Peter; and Van Erden, Donald L., to Signode Corporation. Turning panel flap of zipper-equipped package material. 4,646,511, 3-3-87, Cl. 53-551.000.

Boeckmann, Hugo; and Van Erden, Donald L., to Minigrip, Inc. Method and appartus for handling reclosable wrapped sheet material. 4,704,842, 11-10-87, Cl. 53-450.000.

Boeckmann, Hugo; Huff, Glenn E.; and Tilman, Paul A., to Illinois Tool Works Inc. Carrier tape. 4,708,245, 11-24-87, Cl. 206-330.000.

Boeckmann, Hugo, to Minigrip, Inc. Bag dispensing arrangement. 4,712,684, 12-15-87, Cl. 206-554.000.

Boeckmann, Juergen; Bruhn, Bernhard; Hofmann, Harald; Hoejer, Anke; Mikuteit, Axel; Ritter, Hans-Joachim; and Tenhagen, Rolf, to Koh-I-Noor Rapidograph, Inc. Pen holder device. 4,669,617, 6-2-87, Cl. 211-69.700.

Boeckx, Jack, to Falconer Glass Industries, Inc. Glass fasteners. 4,671,016, 6-9-87, Cl. 49-501.000.

Boedecker, Kay; Scheurl, Robert; and Strasser, Hans-Erwin, to Lang Apparatebau GmbH. Bellows pump having adjustable stop cam for varying the stroke. 4,655,690, 4-7-87, Cl. 417-53.000.

Boeder, Dieter, to Rheinmetall GmbH. Deployable wing for missile or projectile. 4,699,334, 10-13-87, Cl. 244-3.230.

Boegh-Petersen, Allan. Connector assembly for a circuit board testing machine, a circuit board testing machine, and a method of testing a circuit board by means of a circuit board testing machine. 4,707,657, 11-17-87, Cl. 324-158.00F.

Boegli, Rolf: *See—*

Keller, Guido; Spiess, Andreas; Ott, Hans; and Boegli, Rolf, 4,649,502, Cl. 364-519.000.

Boehlau, Ernst; and Toepell, Hans D. F., to Boehlau, Ernst. Noise barrier. 4,650,032, 3-17-87, Cl. 181-210.000.

Boehler, William M.: *See—*

Schraeder, John A.; Boehler, William M.; and Kester, Philip C., 4,669,489, Cl. 130-27.00R.

Boehm, Carl F., Jr., to Hughes Tool Company. Metal casing hanger seal with expansion slots. 4,665,979, 5-19-87, Cl. 166-208.000.

Boehm, H. Russell: *See—*

Vito, Raymond P.; and Boehm, H. Russell, 4,688,559, Cl. 128-80.00F.

Boehm, Hans-Peter: *See—*

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Chee, Wan T., 4,634,081, Cl. 244-54.000.

Church, Royce F.; McCaffrey, Donald B.; and Plude, Leo W., 4,681,286, Cl. 244-129.500.

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Cross, Dan A., 4,704,775, Cl. 29-33.00M.

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Crossfield, Philip M., 4,664,339, Cl. 244-3.280.

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Das, K. Bhagwan, 4,683,368, Cl. 219-146.100.

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Devaney, Walter E., 4,684,761, Cl. 136-258.000.

Dodds, John J., 4,698,115, Cl. 156-382.000.

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Gorges, Frederick J., 4,696,583, Cl. 384-49.000.

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Gross, Sidney; and Hersey, Devin W., 4,671,080, Cl. 62-467.000.

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Hamm, Robert A.; and Soudak, Uri, 4,667,905, Cl. 244-123.000.

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Harris, William G., 4,650,660, Cl. 423-648.00R.

Haslund, Ralph L., 4,671,474, Cl. 244-199.000.

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Henderson, Michael L.; and Owen, Ralph B., 4,685,643, Cl. 244-199.000.

Hendricks, Daniel A.; and Townsend, Warren E., 4,653,309, Cl. 72-391.000.

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Jeppsson, Jan, 4,698,773, Cl. 364-474.000.

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King, Michael M.; and Walter, Helen J., 4,685,210, Cl. 29-830.000.

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Pera, Ronald J., 4,664,134, Cl. 137-14.000.

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Bohler, Theresia: *See—*
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Tracy, David H.; O'Brien, Michael J.; and Bohler, Walter, 4,640,627, Cl. 374-121.000.

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Bohn, Heinz, to ITT Industries, Inc. Vacuum pump system. 4,699,570, 10-13-87, Cl. 417-6.000.

Bohn, Heinz: *See—*
Fink, Werner; and Bohn, Heinz, 4,692,101, Cl. 417-68.000.

Bohn, Helmut: *See—*
Schonafinger, Karl; Bohn, Helmut; Martorana, Piero; and Nitz, Rolf-Eberhard, 4,681,891, Cl. 514-340.000.
Zoller, Gerhard; Beyerle, Rudi; Just, Melitta; Martorana, Piero; Bohn, Helmut; and Nitz, Rolf-Eberhard, 4,666,902, Cl. 514-212.000.

Bohne, Ulrich: *See—*
Bleicher, Manfred; and Bohne, Ulrich, 4,644,835, Cl. 83-471.200.

Bohnen, Bruce A.: *See—*
Heikkila, Kurt E.; Williams, Rodney K.; Bohnen, Bruce A.; and Pylkki, Russell J., 4,667,049, Cl. 558-236.000.

Bohnen, Peter; Prietzel, Gunter; and Kugler, Reinhard, to Siemens Aktiengesellschaft. Low-voltage circuit breaker including a current transformer. 4,673,779, 6-16-87, Cl. 200-146.00R.

Bohnen, Peter; Godesa, Ludvik; Kugler, Reinhard; and Marquardt, Ulrich, to Siemens Aktiengesellschaft. Electric switchgear with a pull-out frame and a switching device that can be inserted therein. 4,703,137, 10-27-87, Cl. 200-50.0AA.

Bohnensieker, Franz. Devices for the preparation of a mixture from at least two fluids with a definite mixture ratio. 4,682,712, 7-28-87, Cl. 222-137.000.

Bohner, Beat; Rempfler, Hermann; and Schurter, Rolf, to Ciba-Geigy Corporation. 2-phenoxypropionic acid cyanamides as herbicides. 4,640,703, 2-3-87, Cl. 71-92.000.

Bohner, Beat; Fory, Werner; Schurter, Rolf; and Pissiotas, Georg, to Ciba-Geigy Corporation. Sulfonylureas and sulfonylthioureas, and method of use thereof as herbicides and/or growth regulators. 4,681,620, 7-21-87, Cl. 71-93.000.

Bohner, Beat; Fory, Werner; Schurter, Rolf; and Pissiotas, Georg, to Ciba-Geigy Corporation. Pyrazine-sulfonylcarbamates and thiocarbamates. 4,684,730, 8-4-87, Cl. 544-408.000.

Bohner, Beat; Fory, Werner; Schurter, Rolf; and Pissiotas, Georg, to CIBA-GEIGY Corporation. Pyrazinyl sulfonamides useful as intermediates for herbicides. 4,707,551, 11-17-87, Cl. 544-408.000.

Bohner, Hal J. Wine temperature controller. 4,681,611, 7-21-87, Cl. 62-3.000.

Bohner, Jurgen: *See—*
Schinkel, Ingo; and Bohner, Jurgen, 4,666,772, Cl. 428-330.000.
Schinkel, Ingo; and Bohner, Jurgen, 4,668,575, Cl. 428-349.000.
Schinkel, Ingo; and Bohner, Jurgen, 4,692,386, Cl. 428-515.000.

Bohnes, Karlheinz: *See—*
Koppers, Manfred; Bohnes, Karlheinz; and Amling, Friedel, 4,640,650, Cl. 405-290.000.

Bohnet, Matthias: *See—*
Ulveing, Leon; Linden, Joseph; Bohnet, Matthias; Wies, Georges; and Mack, Raymond, 4,702,182, Cl. 110-347.000.

Bohorquez, Luis A.: *See—*
Cleary, Michael M.; and Bohorquez, Luis A., 4,665,793, Cl. 89-33.040.

Bohrer, Philip J.; Higashi, Robert E.; and Johnson, Robert G., to Honeywell Inc. Semiconductor device structure and processing. 4,683,159, 7-28-87, Cl. 428-138.000.

hrer, Timothy H.; Pawlowski, Thomas D.; and Brown, Richard K., to James River-Norwalk, Inc. Packaging container for microwave popcorn popping. 4,678,882, 7-7-87, Cl. 219-10.55E.

hringer, Wilfried; Eheim, Franz; Hofer, Gerald; Konrath, Karl; and Laufer, Helmut, to Robert Bosch GmbH. Fuel injection pump for internal combustion engines. 4,649,883, 3-17-87, Cl. 123-449.000.

hringer, Wilfried; and Eheim, Franz J., deceased (by Eheim, Helga R., heir), to Robert Bosch GmbH. Fuel injection pump. 4,702,680, 10-27-87, Cl. 417-490.000.

hringer, Wilfried; Eheim, Franz; Hofer, Gerald; Konrath, Karl; and Laufer, Helmut, to Robert Bosch GmbH. Fuel injection pump for internal combustion engines. 4,714,412, 12-22-87, Cl. 417-289.000.

hrn, Walter J.; Lewis, Robert D.; and Moggio, William A., to Armstrong World Industries, Inc. Alginate gel particle inks or dye liquors for imparting color to textiles. 4,713,084, 12-15-87, Cl. 8-561.000.

hus, Peter: *See—*

  Dombay, Zsolt; Grega nee Toth, Erzsebet; Nagy, Jozsef; Pavliscsak, Csaba; Tasi, Laszlo; Toth, Andras; Toth, Oszkar; Vitanyi, Judit; Bihari, Ferenc; Bohus, Peter; Inczedy, Peter; Magyari, Istvan; Kertesz nee Szabo, Marianna; Wohl, Laszlo; and Ferenczi, Attila, 4,670,429, Cl. 514-187.000.

  Komives, Tamas; Dutka, Ferenc; Barta, Istvan; Jablonkai, Istvan; Hulesch, Agnes; Bihari, Ferenc; Eifert, Gyula; Bohus, Peter; Nagy, Mihaly; Bacskai, Gyorgy; and Kuronya, Istvan, 4,708,733, Cl. 71-94.000.

ice, Richard K., to Ferris Industries, Inc. Self-propelled mower. 4,663,923, 5-12-87, Cl. 56-15.800.

ichot-Castagne, Bernard, to Gerin, Merlin. Current measuring device in an electrical distribution switchboard or enclosure. 4,675,598, 6-23-87, Cl. 324-126.000.

igegrain, Robert: *See—*

  Cecchi, Roberto; Boigegrain, Robert; Bianchetti, Alberto; Poggesi, Elena; and Croci, Tiziano, 4,707,497, Cl. 514-647.000.

illat, Pierre, to Sodeco-Saia AG. Stepping motor control circuit. 4,672,282, 6-9-87, Cl. 318-696.000.

illat, Pierre, to Sodeco-Saia AG. Restraining the instability of a stepper motor. 4,673,855, 6-16-87, Cl. 318-696.000.

illat, Pierre, to Sodeco-Saia AG. Stabilizing arrangement for a stepping motor. 4,683,409, 7-28-87, Cl. 318-696.000.

illot, Louis: *See—*

  Bartolo, William; Boillot, Louis; Challande, Rene; De Robertis, Patrick; Duchenaud, Jacky; and Ramaciotti, Jean-Claude, 4,714,907, Cl. 335-45.000.

ing, Earl V., Jr.: *See—*

  Moss, Ted C.; Kenney, William H.; Boing, Earl V., Jr.; and Cross H. Edwin, Sr., 4,656,686, Cl. 15-147.00A.

ing, Manfred: *See—*

  Schulte, Siegfried; and Boing, Manfred, 4,653,835, Cl. 339-128.000.

  Schulte, Siegfried; and Boing, Manfred, 4,689,454, Cl. 200-159.00A.

ing, Rolf; Frase, Dietmar; and Noeske, Manfred, to Bergwerksverband GmbH. Method and device for monitoring roller drilling tools. 4,704,895, 11-10-87, Cl. 73-104.000.

inot, Jean-Claude, to Micro-Mega S.A. Dental contra-angle handpiece with means for illuminating the treatment area. 4,680,011, 7-14-87, Cl. 433-29.000.

inot, Jean-Claude, to Micro-Mega S.A. Dental contra-angle handpiece. 4,689,012, 8-25-87, Cl. 433-126.000.

inski, Harro, to ITT Industries, Inc. Slide switch. 4,650,943, 3-17-87, Cl. 200-153.0LA.

rat, Robert; Faugeras, Philippe; Haux, Denis; and Mimeur, Jacques, to Compagnie Industrielle des Telecommunications Cit-Alcatel. Optical space-division switching assembly. 4,653,849, 3-31-87, Cl. 350-96.220.

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s, Daniel. Process for producing zones for the electrical isolation of the components of an integrated circuit. 4,679,304, 7-14-87, Cl. 29-576.00W.

sdon, Claude, to Jeumont-Schneider Corporation. Control apparatus for a direct current arc furnace. 4,691,325, 9-1-87, Cl. 373-108.000.

se Cascade Corporation: *See—*

  Lambuth, Alan L., 4,659,604, Cl. 428-99.000.

sset, Bernard, to Societe Industrielle Bertrand Faure. Adjustable headrests and to seats equipped with such headrests. 4,668,014, 5-26-87, Cl. 297-408.000.

ssevain, Mathew G., to Measurex Corporation. Infrared heating calender roll controller. 4,658,716, 4-21-87, Cl. 100-38.000.

ssevain, Mathew G., to Measurex Corporation. Steam jet calender controller with condensate suction. 4,671,173, 6-9-87, Cl. 100-38.000.

ssevain, Mathew G., to Measurex Corporation. Hot air calender roll controller. 4,685,389, 8-11-87, Cl. 100-93.0RP.

nier, Andre; Chabat-Courrede, Jean; and Decaudin, Michel, to Electricite de France (Service National). Method and device for connecting a submersible element to an enclosure under very high pressure. 4,707,002, 11-17-87, Cl. 285-334.200.

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isson, Gerard, to Schlumberger Technology Corporation. Method for actuating a tool in a well at a given depth and tool allowing the method to be implemented. 4,640,354, 2-3-87, Cl. 166-250.000.

Boisvenue, Rudolph J., to Eli Lilly and Company. Control of colonial insects employing o-phenylenediamines. 4,692,468, 9-8-87, Cl. 514-616.000.

Boisvert, Jean-Paul: *See—*

  Green, Marshall S., deceased, and Boisvert, Jean-Paul, 4,698,134, Cl. 162-199.000.

Boisvert, Richard. Pivotable locking bar for patio doors. 4,639,023, 1-27-87, Cl. 292-262.000.

Boit, Jean C.; and Galves, Jean P., to Thomson-CSF. Picture intensifier tube with memorization. 4,680,461, 7-14-87, Cl. 250-213.0VT

Boiti, Franco: *See—*

  Pasquarette, Ernest R., Jr.; Crouse, Stanley G.; Campanella, Ermen; and Boiti, Franco, 4,679,653, Cl. 182-2.000.

Boivin, Daniel W.; and Zelonka, Ronald A., to Du Pont Canada Inc. Blends of polyolefins with polymers containing reactive agents. 4,678,834, 7-7-87, Cl. 525-74.000.

Boivin, Richard F.; Huni, Jean-Paul R., and Potocnik, Vinko, to Alcan International Limited. Busbar arrangement for aluminium electrolytic cells. 4,683,047, 7-28-87, Cl. 204-243.00M.

Boix-Vives, Laurent: *See—*

  Salas, Joseph, and Boix-Vives, Laurent, 4,693,020, Cl. 36-117.000.

Bojanowski, Gerald M.: *See—*

  Knable, Joseph J.; Ferdelman, Donald C.; and Bojanowski, Gerald M., 4,711,463, Cl. 280-668.000.

Bojarski, Alain. Recovery of frame alignment word having bits distributed in a digital transmission signal. 4,646,329, 2-24-87, Cl. 375-116.000.

Bojsen, Erik M., to F. L. Smidth & Co. A/S. Rapping mechanism for an electrostatic precipitator. 4,706,763, 11-17-87, Cl. 173-100.000.

Bok, Edward, to Integrated Automation, Limited. Method of double floating transport and processing of wafers within a confined passageway. 4,662,987, 5-5-87, Cl. 156-646.000.

Bok, Edward, to Integrated Automation Limited. Method and apparatus for coating a substrate. 4,663,197, 5-5-87, Cl. 427-255.500.

Bok, Edward, to Integrated Automation Limited. Improved method for double floating transport and processing of wafers. 4,681,776, 7-21-87, Cl. 427-85.000.

Bokalot, Jean, to Societe Nationale Industrielle et Aerospatiale. Mechanism for automatically actuating a rescue device upon opening of an exit door. 4,715,562, 12-29-87, Cl. 244-137.200.

Boke-Kuhn, Karin: *See—*

  Schneider, Claus; Walther, Gerhard; Weber, Karl-Heinz; Bechtel, Wolf D.; and Boke-Kuhn, Karin, 4,636,510, Cl. 514-302.000.

  Schneider, Claus; Walther, Gerhard; Weber, Karl-Heinz; Bechtel, Wolf D.; and Boke-Kuhn, Karin, 4,666,910, Cl. 514-228.000.

Bokerman, Gary N.: *See—*

  Dosaj, Vishu D.; Oleson, John D.; and Bokerman, Gary N., 4,702,902, Cl. 423-350.000.

Bokil, Delip R., to Analog Devices, Incorporated. Low internal temperature technique for hermetic sealing of microelectronic enclosures. 4,685,200, 8-11-87, Cl. 437-215.000.

Bokisa, George S.: *See—*

  Opaskar, Vincent C.; and Bokisa, George S., 4,662,999, Cl. 204-44.400.

Bokmiller, David J., to Sani-Fresh International, Inc. Cleaning wand caddy. 4,638,910, 1-27-87, Cl. 206-15.200.

Bokmiller, David J.; and Heck, Samuel C., to Sani-Fresh International, Inc. Cleaning system. 4,640,638, 2-3-87, Cl. 401-145.000.

Bokmiller, David J., to Sani-Fresh International, Inc. Cleaning wand. 4,642,836, 2-17-87, Cl. 15-118.000.

Bokmiller, David J.; and Heck, Samuel C., to Sani-Fresh International, Inc. Cleaning system having cleaning fluid capsule. 4,705,420, 11-10-87, Cl. 401-145.000.

Bokowski, Gary A.; and Vahey, David W., to AccuRay Corporation. Ultrasonic transducers for on-line applications. 4,713,572, 12-15-87, Cl. 310-323.000.

Bokros, Jack, to Carbomedics, Inc. Heart valve prosthesis. 4,689,046, 8-25-87, Cl. 623-2.000.

Bokros, Jack C., to Carbomedics, Inc. Percutaneous access device. 4,639,247, 1-27-87, Cl. 604-175.000.

Bokros, Jack C., to CarboMedics, Inc. Heart valve. 4,692,165, 9-8-87, Cl. 623-2.000.

Bol, Michel: *See—*

  Armagnacq, Sylviane; and Bol, Michel, 4,689,045, Cl. 604-375.000.

Bolan, Michael L.: *See—*

  Smith, John W., Jr.; Scherpenberg, Francis A.; Jiang, Ching-Lin; and Bolan, Michael L., 4,645,943, Cl. 307-150.000.

Boland, Anthony C.; and Maxwell, George R., to L.A. Brush Manufacturing Corp. Brush filling apparatus. 4,668,019, 5-26-87, Cl. 300-3.000.

Boland, Bernard W., to Motorola, Inc. Epitaxially isolated semiconductor device process utilizing etch and refill technique. 4,636,269, 1-13-87, Cl. 148-175.000.

Boland, Bernard W.; and Sanders, Paul W., to Motorola, Inc. Process for dielectrically isolated semiconductor structure. 4,649,630, 3-17-87, Cl. 29-580.000.

Boland, Donald P.; Menz, William; and Seimetz, Glen R., to Illinois Bell Telephone Company. Rear bumper assembly for cable pulling truck. 4,635,983, 1-13-87, Cl. 293-111.100.

Boland, Leona G.; Zehner, Georgia L.; and Stevens, Robert A., to Kimberly-Clark Corporation. Form-fitting self-adjusting disposable garment with a zoned stretchable outer cover. 4,701,171, 10-20-87, Cl. 604-385.00A.

Boland, Leona G.; and Stevens, Robert A., to Kimberly-Clark Corporation. Form-fitting self-adjusting disposable garment with elastic waist and legs. 4,701,175, 10-20-87, Cl. 604-385.00A.

- Boland, Leona G.; Stevens, Robert A.; Wilson, John C.; and Zehner, Georgia L., to Kimberly-Clark Corporation. Form-fitting self-adjusting disposable garment with a stretchable bodyside liner. 4,710,187, 12-1-87, Cl. 604-385.00A.
- Boland, Leona G.: *See—*
  - Wilson, John C.; Stevens, Robert A.; Boland, Leona G.; Rajala, Gregory J.; and Kellenberger, Stanley R., 4,701,170, Cl. 604-385.00A.
  - Wilson, John C.; Stevens, Robert A.; and Boland, Leona G., 4,704,114, Cl. 604-385.00A.
  - Zehner, Georgia L.; Boland, Leona G.; and Stevens, Robert A., 4,701,173, Cl. 604-385.00A.
- Boland, Robert P., to Sanders Associates, Inc. Method and apparatus for digital filtering. 4,636,972, 1-13-87, Cl. 364-724.000.
- Bolch, James R.: *See—*
  - Thompson, Charles C.; and Bolch, James R., 4,657,359, Cl. 350-610.000.
- Bolda, Frank J.; McKnight, John P.; and Sturm, Russell J., to International Business Machines Corporation. Magnetically snap actuated contact keyboard apparatus. 4,689,608, 8-25-87, Cl. 340-365.00L.
- Bolden, Albert, to USEC, Inc. Method and apparatus for locating and machining an idle bypass hole in a carburetor body. 4,714,817, 12-22-87, Cl. 219-121.0LK.
- Bolden, Paul L., Jr.: *See—*
  - Hayes, Michael E.; Hrebenar, Kevin R.; Deal, James F., III; and Bolden, Paul L., Jr., 4,666,457, Cl. 44-51.000.
  - Hayes, Michael E.; Hrebenar, Kevin R.; Murphy, Patricia L.; Futch, Laurence E., Jr.; Deal, James F., III; and Bolden, Paul L., Jr., 4,684,372, Cl. 44-51.000.
- Boldish, Steven I., to Ethyl Corporation. Altering flow of gaseous substances. 4,635,681, 1-13-87, Cl. 137-625.500.
- Boldridge, Austin, Jr.; Buell, Scott; and Graham, James M., to Gellman, Aaron J.; and Levinson, Samuel H. Parallel encoded piezoelectric keyboard switch and array. 4,712,092, 12-8-87, Cl. 340-365.00A.
- Boldt, Allyn L.: *See—*
  - Ryan, Jack L.; Bray, Lane A.; and Boldt, Allyn L., 4,686,019, Cl. 204-1.500.
- Boldt, Clifford R.; and Greene, Richard K., to Celanese Engineering Resins, Inc. Process for preparing oxymethylene polymers using boron trifluoride in admixture with an inert gas. 4,692,505, 9-8-87, Cl. 528-241.000.
- Boldt, Robert R., to East Moline Metal Products Company. Controller with two modes of braking induction motors. 4,712,054, 12-8-87, Cl. 318-758.000.
- Bolduc, Henry P., Jr.: *See—*
  - Allain, Raymond J.; Bolduc, Henry P., Jr.; Patterson, Thomas R., and Ingram, Timothy J., 4,686,902, Cl. 101-424.000.
- Bolema, Stephen J.: *See—*
  - Padalino, Marco; Bolema, Stephen J.; and Culpepper, Mark A., 4,668,964, Cl. 346-75.000.
- Bolen, Charles E.: *See—*
  - Hahn, Louis T.; Grossi, Anthony V.; Marzocchi, Alfred; and Bolen, Charles E., 4,647,606, Cl. 524-62.000.
  - Roberts, Michael G.; Ponn, Frederick H.; and Bolen, Charles E., 4,654,385, Cl. 524-69.000.
- Bolenbaugh, Daniel L.: *See—*
  - Smith, Roger L.; and Bolenbaugh, Daniel L., 4,635,761, Cl. 188-72.600.
- Boler, Clifford H.; Leake, William W.; Rai, Surinder S.; and Zemske, Gene B., to VTC Incorporated. CMOS output buffer providing high drive current with minimum output signal distortion. 4,638,187, 1-20-87, Cl. 307-451.000.
- Boler Company, The: *See—*
  - Jable, Roger D.; and Taylor, James B., 4,699,399, Cl. 280-680.000.
- Boles, David M., to Owens-Corning Fiberglas Corporation. Method and apparatus for facilitating the withdrawal of strand from wound packages. 4,673,140, 6-16-87, Cl. 242-54.00R.
- Boles, Flounoy W. Apparatus for removing and replacing pipe beneath an earthfill. 4,637,756, 1-20-87, Cl. 405-184.000.
- Boles, John A.; and Eastman, Jay M., to Optel System Limited. Bar code scanner laser radiation exposure limit control system. 4,639,606, 1-27-87, Cl. 250-555.000.
- Boles, John A.: *See—*
  - Eastman, Jay M.; and Boles, John A., 4,652,750, Cl. 250-239.000.
- Boles, Robert G.: *See—*
  - Farley, Harold C.; and Boles, Robert G., 4,681,013, Cl. 89-1.815.
- Bolg, Ulrich: *See—*
  - Ams, Felix; Bolg, Ulrich; and Wurster, Helmut, 4,688,087, Cl. 358-100.000.
- Bolger, Bernard J.: *See—*
  - Woods, John; Rooney, John M.; and Bolger, Bernard J., 4,668,713, Cl. 522-174.000.
- Bolger, Joseph E. Tire bead breaker. 4,676,291, 6-30-87, Cl. 157-1.170.
- Bolger, Thomas V., to RCA Corporation. Chroma signal amplitude control apparatus. 4,635,102, 1-6-87, Cl. 358-27.000.
- Bolger, Thomas V., to RCA Corporation. Raster distortion correction for progressive scan television system. 4,670,772, 6-2-87, Cl. 358-11.000.
- Boliden Aktiebolag: *See—*
  - Bergman, Sten G. A.; Sagefors, K. Ivar; and Akesson, Bengt A., 4,652,181, Cl. 405-128.000.
  - Bergman, Sten G. A.; Sagefors, K. Ivar; and Akesson, Bengt A., 4,708,522, Cl. 405-55.000.
  - Dahlgren, Sven-Eric; Ekman, Douglas S.; and Ericsson, Claes E., 4,686,105, Cl. 426-74.000.
  - Dyvik, Frostein; and Borve, Kjetil, 4,640,751, Cl. 204-105.00R.
  - Dyvik, Froystein; and Mioen, Thomas K., 4,710,277, Cl. 204-119.000.
  - Hedlund, Martin L., 4,705,562, Cl. 75-83.000.
  - Ling, Tommy; and Stendahl, Kjell E., 4,663,055, Cl. 210-738.000.
  - Marklund, Olle E.; Elmlid, Carl-Gustaf; Marklund, Ulf P.; and Borell, Michael C., 4,681,268, Cl. 241-24.000.
  - Sagefors, Karl I.; and Persson, Per G., 4,708,523, Cl. 405-55.000.
- Bolin, Charles E. Friction heat generator. 4,646,714, 3-3-87, Cl. 126-247.000.
- Bolin, Gustav G. A. Sound-wave receiving appliance. 4,700,396, 10-13-87, Cl. 381-91.000.
- Bolin, Michael L., to Halliburton Company. Gravel packing method and apparatus. 4,662,447, 5-5-87, Cl. 166-278.000.
- Bolin, Michael L., to Halliburton Company. Method and apparatus for hydraulically releasing from a gravel screen. 4,671,361, 6-9-87, Cl. 166-377.000.
- Bolin, Michael L.: *See—*
  - Brisco, David P.; and Bolin, Michael L., 4,662,446, Cl. 166-278.000.
  - Zunkel, Gary D.; and Bolin, Michael L., 4,633,944, Cl. 166-51.000.
  - Zunkel, Gary D.; and Bolin, Michael L., 4,638,859, Cl. 166-51.000.
  - Zunkel, Gary D.; Stepp, Lee W.; and Bolin, Michael L., 4,664,188, Cl. 166-134.000.
- Bolin, Philip C.: *See—*
  - Meyer, Jeffry R.; Munroe, Albert P.; and Bolin, Philip C., 4,711,973, Cl. 174-14.00R.
- Bolinder, Boo; and Schmid, Hermann, to Aktiebolaget Bofors. Method of producing progressively burning artillery propellant powder and agent adapted thereto. 4,654,093, 3-31-87, Cl. 149-3.000.
- Boling, Gerd: *See—*
  - Steudle, Ernst; Zillikens, Josef; and Boling, Gerd, 4,706,495, Cl. 73-64.300.
- Boling, Monte J., to Anderson Machine Works. Belt feeder for orienting and transporting round symmetrical parts. 4,705,156, 11-10-87, Cl. 198-392.000.
- Bolingen, Johann: *See—*
  - Kronschnabel, Hartmut; Goerings, Wilhelm; Bolingen, Johann; and Kleine-Vennekate, Gerd, 4,687,600, Cl. 252-627.000.
- Bolinger, Ralph L. Plow moldboard having reversible and interchangeable parts. 4,671,363, 6-9-87, Cl. 172-704.000.
- Bolkow, Ludwig; Mehnert, Walter; and Chaborski, Hoiko, to MTC Messtechnik und Optelektronik AG. Method of measuring the distance of a target and apparatus for its performance. 4,699,508, 10-13-87, Cl. 356-5.000.
- Boll, Hans-Joachim, to Wagner International AG; and J. Wagner GmbH. Control circuit for airless spray gun. 4,705,995, 11-10-87, Cl. 318-129.000.
- Boll, Walter: *See—*
  - Moller, Friedrich-Wilhelm; Boll, Walter; Marschner, Friedemann and Muller, Wolf-Dieter, 4,692,322, Cl. 423-415.00A.
- Boll, Wolf: *See—*
  - Steinkamper, Reinhard; Boll, Wolf; and Peitsmeier, Karl, 4,678,361, Cl. 403-359.000.
- Bollag, Werner; Ruegg, Rudolf; and Ryser, Gottlieb, to Hoffmann-La Roche Inc. Substituted triarylphosphonium derivatives. 4,656,310, 4-7-87, Cl. 568-9.000.
- Bollag, Werner, to Hoffmann-La Roche Inc. Treatment of dermatoses and illnesses producing inflammation. 4,689,350, 8-25-87, Cl. 514-765.000.
- Bolland, Daniel B., to Exxon Research and Engineering Company. Liquid storage tank leak detection system. 4,679,425, 7-14-87, Cl. 73-49.200.
- Bollands, Martin A.; Pike, William C.; Thukral, Prem S.; and Woolmington, Timothy P., to British Petroleum Company p.l.c., The. Drill shoe. 4,715,455, 12-29-87, Cl. 175-402.000.
- Bollard, David R., to U.S. Philips Corporation. Receiver for amplitude modulated signals. 4,691,381, 9-1-87, Cl. 455-334.000.
- Bolle, Robert, to Etablissements Bolle Georges, Robert et Maurice. Eye shield with face engaging seal. 4,689,837, 9-1-87, Cl. 2-440.000.
- Bollen, Theo P. C.; and Cassidy, John E., to Electro-Nite Company. Repeating temperature sensing immersion probe. 4,692,556, 9-8-87, Cl. 136-234.000.
- Bollenrath, Franz M., to Huls Aktiengesellschaft. Stirring system and method for introducing gases to liquids. 4,699,740, 10-13-87, Cl. 261-93.000.
- Boller, Arthur; Petrzilka, Martin; and Schadt, Martin, to Hoffmann-La Roche Inc. Dicyano compounds. 4,704,005, 11-3-87, Cl. 350-346.000.
- Boller, Edward, to Hydrovane Compressor Company Limited, The. Positive displacement air compressors. 4,642,033, 2-10-87, Cl. 417-295.000.
- Bollerhey, Rolf, to Mannesmann AG. Dust removal. 4,681,607, 7-21-87, Cl. 55-284.000.
- Bollhagen, Heins: *See—*
  - Abt, Jurgen; Bollhagen, Heins; Handtmann, Dieter; Kuhn, Ulrich; and Stumpf, Sybille, 4,665,742, Cl. 73-168.000.
- Bolli, Hans-Ulrich; and Widmann, Franz-Josef, to SIG Schweizerische Industrie-Gesellschaft. Packing for flat, rectangular products and method. 4,666,079, 5-19-87, Cl. 229-87.00F.
- Bolliger, Edwin, to Bobst SA. Device for lateral alignment of flat objects in a flow. 4,657,240, 4-14-87, Cl. 271-250.000.
- Bolliger, Georg: *See—*
  - Kobel, Hans; Sanglier, Jean-Jacques; Tscherter, Hans; and Bolliger, Georg, 4,681,880, Cl. 514-250.000.
- Bollin, Ernest, Jr.; and Fletcher, Mark G., to Du Pont de Nemours, E. I., and Company. Trehalose as stabilizer and tableting excipient. 4,678,812, 7-7-87, Cl. 514-777.000.

- llinger, James E.: *See—*
  - Kamen, Christopher R.; and Bollinger, James E., 4,699,192, Cl. 150-52.00K.
- llinger, Karl; and Chagnot, Philippe, to Soletanche. Apparatus for cleaning drills. 4,650,012, 3-17-87, Cl. 175-84.000.
- llinger, Lawrence R., to United States of America, Energy. Support rrangement for core modules of nuclear reactors. 4,643,868, 2-17-87, Cl. 376-262.000.
- llini, Jakob L.: *See—*
  - Miller, Ralph; Bollini, Jakob L.; and Schneider, Robert, 4,681,710, Cl. 260-508.000.
- llman, Clifford J. Multi-adjustable, multi-functional work station ystem. 4,705,327, 11-10-87, Cl. 312-312.000.
- llman, Robert L.: *See—*
  - Bassett, Gregory S.; and Bollman, Robert L., 4,698,116, Cl. 156-423.000.
- llmann, Jean-Jacques. Base support for pole. 4,662,139, 5-5-87, Cl. 2-296.000.
- llong, Alan B. I.: *See—*
  - Bult, Roelof P.; Bollong, Alan B. I.; and Redden, Robert F., 4,690,725, Cl. 156-617.00R.
- lmstedt, Ulf; and Johansson, Bjorn-Olow, to Alfa-Laval Food & Dairy Engineering AB. Device for changing the number of part treams of a flowing medium. 4,696,341, 9-29-87, Cl. 165-101.000.
- lmstedt, Ulf; and Johansson, Bjorn-Olow, to Alfa-Laval Food & Dairy Engineering AB. Inlet device in plate evaporator. 4,700,770, 0-20-87, Cl. 165-1.000.
- lmstedt, Ulf; and Lundblad, Bengt, to Alfa-Laval Food & Dairy Engineering AB. Heat exchanger of falling film type. 4,706,741, 1-17-87, Cl. 165-115.000.
- ognesi, Antonio; Selleri, Narciso; and Gherdovich, Giancarlo, to Marposs Societa' per Azioni. Method and relevant apparatus for ontrolling machine tools. 4,703,587, 11-3-87, Cl. 51-165.00R.
- on, Craig, to Betagen Corporation. Process and apparatus for meauring surface distributions of charged particle emitting radionulides. 4,670,656, 6-2-87, Cl. 250-385.000.
- ot, Denis; Cuny, Francis; and Lasnier, Didier, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Torche nozzle with internal gas mixing. 4,653,692, -31-87, Cl. 239-427.000.
- otko, Viktor I.: *See—*
  - Zaruba, Igor I.; Dymenko, Vladimir V.; and Bolotko, Viktor I., 4,692,585, Cl. 219-130.400.
- son, John H., Sr., to Minnesota Mining and Manufacturing Comany. Self-orienting passive marker structure. 4,712,094, 12-8-87, Cl. 40-572.000.
- stad, Jon O., to United States of America, Energy. Electronic maging system and technique. 4,649,426, 3-10-87, Cl. 358-101.000.
- t Beranek and Newman Inc.: *See—*
  - Horrall, Thomas R.; and Greiner, Richard A., 4,674,124, Cl. 381-73.100.
  - Rettberg, Randall D.; and Glasser, Lance A., 4,700,347, Cl. 371-1.000.
- t, John D.; and Lukhard, Mark H., to Du Pont de Nemours, E. I., nd Company. Stabilization of pitch fiber. 4,657,753, 4-14-87, Cl. 23-447.600.
- t, Lawrence: *See—*
  - Reiner, Daniel T.; Bolt, Lawrence; Morlan, Philip W., Jr.; and Tavasolian, Ali, 4,659,112, Cl. 283-90.000.
- t, Michael L.: *See—*
  - Irwin, Samuel N.; Lum, Francis; Bolt, Michael L.; Henke, Steven E.; Sokolik, Edmund L.; and Chambors, John M., 4,647,994, Cl. 360-85.000.
- t, Reginald C.; Dyett, Derek H.; and Williams, Robert E., to Molins PLC. Spark perforation of web material. 4,635,653, 1-13-87, Cl. 31-281.000.
- t Technolgy Corporation: *See—*
  - Chelminski, Stephen V., 4,712,202, Cl. 367-144.000.
- t Technology Corporation: *See—*
  - Chelminski, Stephen V., 4,712,641, Cl. 181-113.000.
- t, William H.: *See—*
  - Bland, Patrick M.; and Bolt, William H., 4,649,373, Cl. 340-365.00R.
- te, Georg; and Schwarz, Helmut, to Schmalbach-Lubeca AG; and Eisenmann Maschinenbaugesellschaft mbH. Holding device for the etention of can bodies or cans which have one open end during ransport of conveyers. 4,676,366, 6-30-87, Cl. 198-803.800.
- te, Georg, to Schmalbach-Lubeca AG. Method of decorating and nhibiting corrosion of metallic articles. 4,693,801, 9-15-87, Cl. 04-180.200.
- te, Steven B.: *See—*
  - Knapp, John F.; Gruber, Robert J.; Floyd, Lawrence, Jr.; Bolte, Steven B.; and Swales, Michael G., 4,695,524, Cl. 430-32.000.
- ton, Albert E.; and Hepworth, William J., to AE PLC. Reinforcement of engine blocks. 4,643,145, 2-17-87, Cl. 123-195.00R.
- ton, Brent C.: *See—*
  - Logsdon, Gary L.; Scheevel, Mark R.; and Bolton, Brent C., 4,654,780, Cl. 364-200.000.
- ton, Curtis W., III: *See—*
  - Bradfield, James E.; Kahil, John E.; Jaynes, Mark S.; Moake, Gordon L.; Milewits, Marvin; Bolton, Curtis W., III; Lam, Clive C.; and Stanley, Roderic K., 4,710,712, Cl. 324-227.000.
- ton, Gary R. Multi-beam structure clip. 4,671,724, 6-9-87, Cl. 14-126.000.
- ton, John D. Easy clear spray nozzle. 4,682,731, 7-28-87, Cl. 39-119.000.
- Bolton, John D'Arcy. Safety ski harness. 4,681,337, 7-21-87, Cl. 280-615.000.
- Bolton, John D'Arcy. Stump trimmer. 4,697,625, 10-6-87, Cl. 144-2.00N.
- Bolton, Laura L.; and Constantine, Barry E., to Johnson & Johnson Products, Inc. Debriding tape. 4,668,228, 5-26-87, Cl. 604-307.000.
- Bolton, Nelson P.; and Smith, W. Novis, Jr., to Advanced Glass Systems, Corp. Laminated safety glass. 4,663,228, 5-5-87, Cl. 428-334.000.
- Bolton, Nelson P.; and Smith, W. Novis, Jr., to Advanced Glass Systems, Corp. Laminated safety glass. 4,668,574, 5-26-87, Cl. 428-339.000.
- Bolton, Theodore S.; and Napolitano, James E., to Carrier Corporation. Mounting for a room air conditioner. 4,651,959, 3-24-87, Cl. 248-208.000.
- Bolton, Wilbur M.: *See—*
  - Conant, Louis A.; Bolton, Wilbur M.; and Wilson, James E., 4,678,028, Cl. 165-72.000.
- Boltralik, John J., to Alcon Laboratories, Inc. Anti-inflammatory compounds for ophthalmic use. 4,686,214, 8-11-87, Cl. 514-179.000.
- Boltz, John O. Igniter for a model rocket engine. 4,655,137, 4-7-87, Cl. 102-202.000.
- Boltze, Karl-Heinz; Etschenberg, Eugen; Traber, Jorg; and Busgen, Herbert, to Troponwerke GmbH & Co. KG. New benzodiazepines and their use. 4,647,560, 3-3-87, Cl. 514-220.000.
- Bolwell, Farley W.: *See—*
  - Elson, Edward E., Bolwell, Farley W.; Manska, Wayne E.; and Shoffner, Stanley G., 4,643,389, Cl. 251-10.000.
- Bolz, Alfred; Shroyer, Richard A.; and Johnson, David A. Conical spiral mixer with spherical sealing body in the bottom opening. 4,668,099, 5-26-87, Cl. 366-287.000.
- Bolz, Richard; and Trutter, Walter P., to General Motors Corporation. Seat back for a motor vehicle rear seat assembly. 4,636,005, 1-13-87, Cl. 297-379.000.
- Bolza-Schunemann, Claus A., to Koenig & Bauer Aktiengesellschaft. Edge location measuring head. 4,680,806, 7-14-87, Cl. 382-65.000.
- Bolzan, Louis F.; and Weil, Edward D., to Stauffer Chemical Company. Process for the production of arylsulfonyl halides. 4,678,612, 7-7-87, Cl. 260-543.00R.
- Bolzan, Louis F., to Stauffer Chemical Company. Process for producing a disulfide dimer of EPTD. 4,697,028, 9-29-87, Cl. 558-89.000.
- Bolze, Rudolf: *See—*
  - Russe, Meinhard W.; Bolze, Rudolf; and Koch, Friedhelm, 4,696,914, Cl. 514-19.000.
- Bom, Cornelis J. G.: *See—*
  - van der Lely, Ary; and Bom, Cornelis J. G., 4,643,360, Cl. 239-682.000.
  - van der Lely, Ary; and Bom, Cornelis J. G., 4,679,384, Cl. 56-13.600.
  - van der Lely, Edwin; and Bom, Cornelis J. G., 4,641,491, Cl. 56-228.000.
  - van der Lely, Ir E.; and Bom, Cornelis J. G., 4,693,062, Cl. 56-13.600.
- Boman, Pertti J., to AB UVA. Rotatable holder for plural grinding spindles. 4,660,328, 4-28-87, Cl. 51-166.00T.
- Bomann, Werner: *See—*
  - Brantl, Victor; Bomann, Werner; and Schill, Herbert, 4,707,475, Cl. 514-215.000.
- Bomar Corporation, Inc.: *See—*
  - Lybecker, Robert W., 4,638,597, Cl. 49-340.000.
- Bomba, Frank C.; Bhandarkar, Dileep P.; Grady, J. J., III; Lackey, Stanley A., Jr.; Mitchell, Jeffrey W.; and Schumann, Reinhard, to Digital Equipment Corporation. Cache invalidation mechanism for multiprocessor systems. 4,648,030, 3-3-87, Cl. 364-200.000.
- Bomba, Frank C.; Schumann, Reinhard; Jenkins, Steven R.; and Binder, Paul, to Digital Equipment Corporation. Bus-control mechanism. 4,661,905, 4-28-87, Cl. 364-200.000.
- Bomba, Frank C.; and Jenkins, Stephen R., to Digital Equipment Corporation. Retry mechanism for releasing control of a communications path in digital computer system. 4,706,190, 11-10-87, Cl. 364-200.000.
- Bombardelli, Ezio; Gabetta, Bruno; and Magistretti, Maria J., to Inverni Della Beffa S.p.A. Pharmaceutical compositions containing compounds with a flavanone skeleton, process for the preparation of the said compound and novel compounds obtained. 4,636,569, 1-13-87, Cl. 549-403.000.
- Bombardelli, Ezio; Gabetta, Bruno; and Conti, Marisa, to Inverni Della Beffa SpA. Methods, compositions and compounds for the treatment of prostatic adenoma. 4,709,076, 11-24-87, Cl. 560-55.000.
- Bombardier Inc.: *See—*
  - Talbot, Jean-Guy; and Gauthier, Andre M., 4,671,521, Cl. 280-16.000.
- Bombardieri, Guiseppe. Device for the automatic insulin or glucose infusion in diabetic subjects, based on the continuous monitoring of the patient's glucose, obtained without blood withdrawal. 4,633,878, 1-6-87, Cl. 128-635.000.
- Bomed Medical Manufacturing, Ltd.: *See—*
  - Sramek, Bohumir, 4,677,984, Cl. 128-681.000.
- Bomhard, Andreas: *See—*
  - Heider, Joachim; Hauel, Norbert; Austel, Volkhard; Noll, Klaus; Bomhard, Andreas; van Meel, Jacques; and Diederen, Willi, 4,716,169, Cl. 514-299.000.
- Bomin Solar GmbH & Co. KG: *See—*
  - Kleinwachter, Jurgen, 4,686,960, Cl. 126-422.000.
- Bommart, Patrick T., to C. Delachaux. Apparatus for adjusting two butt-ends of rails to be connected by welding. 4,641,818, 2-10-87, Cl. 269-43.000.

Bommer, Jerry C.; and Burnham, Bruce F., to Nippon Petrochemicals Company, Limited. Tetrapyrrole therapeutic agents. 4,656,186, 4-7-87, Cl. 514-410.000.

Bommer, Jerry C.; and Burnham, Bruce F., to Nippon Petrochemicals Co., Ltd. Tetrapyrrole therapeutic agents. 4,675,338, 6-23-87, Cl. 514-410.000.

Bommer, Jerry C.; and Burnham, Bruce F., to Nippon Petrochemicals Co., Ltd. Tetrapyrrole therapeutic agents. 4,693,885, 9-15-87, Cl. 424-2.000.

Bompart, Jacques: *See—*
Giral, Louis; Puygrenier, Marc; and Bompart, Jacques, 4,663,329, Cl. 514-301.000.

Bompis, Herve: *See—*
Arlaud, Patrick; Bompis, Herve; and Canard, Pierre, 4,663,393, Cl. 525-165.000.

Bon Ton Rolle Limited: *See—*
Cradeur, Robert R., 4,666,365, Cl. 414-746.000.

Bona, Alfredo D., to Murray Europe S.p.A. Pipe-flange coupling with irreversible screwing at rotation. 4,664,425, 5-12-87, Cl. 285-330.000.

Bona, Cesare, to Ages Italia S.p.A. Print assembly for magnetic and clear printing magnetic cards and the like. 4,704,960, 11-10-87, Cl. 101-93.120.

Bona, Gioachino: *See—*
Arru, Piero; Bona, Gioachino; Curcio, Maria; and Vallana, Franco, 4,666,442, Cl. 623-2.000.

Bonac, Tomo. Socket tooth for saws. 4,646,606, 3-3-87, Cl. 83-839.000.

Bonacchi, Graziano; Fedi, Mauro; and Giannini, Mario, to Malesci S.p.A. Istituto Farmacobiologico. Process for the separation of optical isomers of racemic 1-pyridyl-alkyl-4-aryl piperazines, and optical isomers obtained thereby. 4,692,525, 9-8-87, Cl. 544-360.000.

Bonacci, Stephen T.; Douville, Richard L.; and Winter, Rodger C. Screen door assembly. 4,712,598, 12-15-87, Cl. 160-84.00R.

Bonaccio, Anthony R., to International Business Machines Corporation. Open line detector circuit. 4,697,099, 9-29-87, Cl. 307-355.000.

Bonacorsi, Robert W., to Phillips Home Products. Trash compactor. 4,638,730, 1-27-87, Cl. 100-229.00A.

Bonal, Jean, to Jeumont-Schneider Corporation. A-C or D-C to D-C converter for dual current locomotives with D-C motors. 4,641,234, 2-3-87, Cl. 363-124.000.

Bonali, Vincenza. Apparatus for stacking generic sheet-like elements such as sheets, hides, boards, and the like. 4,664,577, 5-12-87, Cl. 414-86.000.

Bonamigo, Roberto: *See—*
Falciani, Marco; and Bonamigo, Roberto, 4,700,838, Cl. 206-438.000.

Bonanno, Anthony J., to Hanover Research Corporation. Apparatus for recovering dry solids from aqueous solids mixtures. 4,662,990, 5-5-87, Cl. 159-20.100.

Bonanno, Anthony J., to Hanover Research Corporation. Process for recovering dry solids from aqueous solids mixtures. 4,702,798, 10-27-87, Cl. 159-47.100.

Bonanno, Carmine. Guitar controller for a music synthesizer. 4,702,141, 10-27-87, Cl. 84-1.160.

Bonanno, Mario; Zinonos, George; and Trantzas, Constantin, to Cangro Industries, Inc. Cigarette holder. 4,637,407, 1-20-87, Cl. 131-175.000.

Bonapace, Franco B.: *See—*
Cosentino, Roberto F.; and Bonapace, Franco B., 4,702,932, Cl. 427-33.000.

Bonar Bray Limited: *See—*
Bicknell, John; and O'Brien, Stephen, 4,678,990, Cl. 324-158.0MG.
Bicknell, John, 4,716,351, Cl. 318-600.000.

Bonar, George D. Automatic range finder and remote controller braking system. 4,692,764, 9-8-87, Cl. 342-71.000.

Bonar Langley Alloys Limited: *See—*
Guha, Prodyot, 4,657,606, Cl. 148-327.000.

Bonar Rosedale Plastics Ltd.: *See—*
Hughes, Larry R.; Dorsey, Michael L.; and Wensley, David, 4,693,386, Cl. 220-1.500.

Bonas Machine Company Limited: *See—*
Griffith, John D., 4,667,704, Cl. 139-65.000.

Bonasso, Jack I.; Harper, James T.; and Johnson, Ewing A., to Bonasso, Jack I., and Harper, James T. Apparatus for the conversion of coal to gas, liquid and solid products. 4,704,135, 11-3-87, Cl. 48-73.000.

Bonasso, Samuel G. Tension arch structure. 4,644,978, 2-24-87, Cl. 138-157.000.

Bonasso, Samuel G. Tension arch structure. 4,704,754, 11-10-87, Cl. 14-20.000.

Bonato, Marc: *See—*
Follet, Michel; and Bonato, Marc, 4,699,919, Cl. 514-431.000.

Bonaventura, Joseph: *See—*
Rittschof, Daniel; Criner, Gaspard X.; and Bonaventura, Joseph, 4,704,286, Cl. 426-1.000.

Bonazoli, Robert P., to GTE Products Corporation. High pressure discharge lamp with thermal switch. 4,659,965, 4-21-87, Cl. 315-60.000.

Bonazoli, Robert P.: *See—*
Hough, Harold L.; and Bonazoli, Robert P., 4,649,320, Cl. 315-100.000.

Bonazza, Walter J.: *See—*
Caro, Edward R.; and Bonazza, Walter J., 4,698,028, Cl. 439-271.000.

Boncoeur, Marcel; Mandet, Francois; and Palacio, Marc, to Commissariat a l'Energie Atomique. Process and apparatus for confining the pollution of an isostatic pressing enclosure. 4,654,171, 3-31-87, Cl. 252-626.000.

Boncoeur, Marcel; and Hansz, Bernard, to Commissariat A L'Energie Atomique. Surface treatment of a part and use of this treatment for improving the adhesion of a coating which is then deposited on the part, particularly by hot spraying. 4,675,205, 6-23-87, Cl. 427-37.000.

Bond, Albert K.: *See—*
Merrick, Edwin B.; and Bond, Albert K., 4,703,759, Cl. 128-673.000.

Bond, Arthur C.: *See—*
•Griffin, Dennis; and Bond, Arthur C., 4,669,356, Cl. 89-1.570.

Bond, Bruce E.; and Harrold, William J., to Raytheon Company. Magnetic drum separator. 4,693,812, 9-15-87, Cl. 209-224.000.

Bond, Charles R., to Verbatim Corporation. Magnetic disk for measuring the azimuth of a transducer head. 4,686,470, 8-11-87, Cl. 324-207.000.

Bond, Frank, to U.S. Health, Inc. Health spa for exercise, recreational and social activities. 4,650,179, 3-17-87, Cl. 272-2.000.

Bond, Henry J. Wooden circular stair with balustrade and method for fabricating the same. 4,655,017, 4-7-87, Cl. 52-187.000.

Bond, Irvin D. Press linkage with controlled dwell. 4,637,243, 1-20-87, Cl. 72-421.000.

Bond, Irvin D. Motion transmitting means. 4,676,113, 6-30-87, Cl. 74-102.000.

Bond, Irvin D. Apparatus for turning a workpiece over along a twisting path of motion. 4,715,242, 12-29-87, Cl. 74-102.000.

Bond, Jeffrey C.; and Thaden, Robert C., to Texas Instruments Incorporated. Video system controller with a row address override circuit. 4,656,597, 4-7-87, Cl. 364-518.000.

Bond, Jeffrey C.: *See—*
Thaden, Robert C.; Van Aken, Jerry; Bond, Jeffrey C.; and Albachten, Rudy, 4,654,804, Cl. 364-520.000.
Thaden, Robert C.; Bond, Jeffrey C.; Moravec, John V.; Guttag, Karl M.; Pinkham, Raymond; and Novak, Mark, 4,656,596, Cl. 364-521.000.
Thaden, Robert C.; and Bond, Jeffrey C., 4,660,155, Cl. 364-521.000.

Bond, Joseph N. Bundling apparatus with flexible rope type compressor. 4,714,016, 12-22-87, Cl. 100-212.000.

Bond, Leroy E.: *See—*
Cambo, William H.; Whitely, Elliott F.; and Bond, Leroy E., 4,687,697, Cl. 428-201.000.

Bond, Les. Method and apparatus for hydrocarbon recovery. 4,658,916, 4-21-87, Cl. 175-81.000.

Bond, Michael E., and Voreh, Fred R., to USM Corporation. Plastic wall anchor. 4,712,956, 12-15-87, Cl. 411-55.000.

Bond, Raymond G., to Fortel Corporation. Message playback control system for telephone answering machine. 4,703,498, 10-27-87, Cl. 379-70.000.

Bond, Raymond G.; and Mock, Gerald L., to Fortel Corporation. Telephone answering machine with automatic recording and visual display of time and data. 4,713,835, 12-15-87, Cl. 379-79.000.

Bond, Raymond G.: *See—*
Hanscom, Bradford E.; and Bond, Raymond G., 4,672,659, Cl. 379-79.000.

Bond, Robert, to Shell Internationale Research Maatschappij B.V. Tires. 4,650,831, 3-17-87, Cl. 525-332.900.

Bond, Robert: *See—*
Musschoot, Albert; and Bond, Robert, 4,662,425, Cl. 164-131.000.

Bond, Robert H.; and Kraus, Richard B., to General Kinematics Corporation. Foundry sand feeding apparatus. 4,685,504, 8-11-87, Cl. 164-203.000.

Bond, Robert H.: *See—*
Quinn, Daniel J.; Mulholland, Wayne A.; Bond, Robert H.; Olla, Michael A.; Cupples, Jerry S.; Tsitovsky, Ilya L.; Mozdzen, Barbara R., Held, Charles F.; Wilson, Linda S.; and Nguyen, Yen T., 4,685,998, Cl. 156-633.000.

Bondanini, Faliero. Infusion filter. 4,650,583, 3-17-87, Cl. 210-474.000.

Bondarev, Ivan M.: *See—*
Shishov, Nikolai M.; Zelenetsky, Vladimir E.; Demina, Nadezhda A.; Bondarev, Ivan M.; Cherny, Alexandr N.; Avxentiev, Anatoly G.; and Rylov, Evgeny E., deceased, 4,645,487, Cl. 604-58.000.

Bondax Carpets Limited: *See—*
Axford, Robin; and Young, John R., 4,656,901, Cl. 83-55.000.

Bonded Products, Inc.: *See—*
Busch, Fred A., 4,650,387, Cl. 413-19.000.

Bondeson, Anders: *See—*
Tran, Minh Q.; and Bondeson, Anders, 4,705,988, Cl. 315-4.000.

Bondico, Inc.: *See—*
Shaw, Mark D.; Heyman, J. Tad; and Bierce, Laurence M 4,708,258, Cl. 220-288.000.

Bondinell, William E.; and Ormsbee, Herbert S., III, to SmithKlin Beckman Corporation. Sulfinyl and sulfonyl substituted 3-benzaze pines. 4,659,706, 4-21-87, Cl. 514-213.000.

Bondinell, William E.; Wen-Fu Ku, Thomas; and Ormsbee, Herbert S III, to Smithkline Beckman Corporation. 1-phenyl-3-benzazepin and their use for treating gastrointestinal motility disorder 4,707,483, 11-17-87, Cl. 514-273.000.

Bondioli, Edi. Device for maneuvering fast connection tangent button operated of splined profile clutches, especially on end forks agriculture cardanic shafts. 4,687,367, 8-18-87, Cl. 403-322.000.

Bondon, Lewis A. High voltage flexible cable for pressurized g insulated transmission line. 4,705,914, 11-10-87, Cl. 174-28.000.

Bondurant, John C. Infinitely variable ratio transmission. 4,646,58 3-3-87, Cl. 74-193.000.

Bondy, Daniel A.; East, Judith A.; and Rizzo, Christina M., to St. Vincent Medical Center. Bed enclosure. 4,641,387, 2-10-87, Cl. 5-508.000.

Bondy, Larry. Heated insert for boots. 4,665,301, 5-12-87, Cl. 219-211.000.

Bone, Arnold, to Dennison Manufacturing Company. Variable pitch feed of fasteners. 4,651,913, 3-24-87, Cl. 227-67.000.

Bone, Arnold R., to Dennison Manufacturing Company. Structure, use and manufacture of fasteners. 4,654,935, 4-7-87, Cl. 24-150.0FP.

Bone, Daniel, to Black & Decker Inc. Scroller jig saw. 4,693,009, 9-15-87, Cl. 30-392.000.

Bone, Eric R.: *See—*
  Tsamas, Anton; Bone, Eric R.; Stevens, Andrew; and Tumminello, Salvatore, Jr., 4,667,379, Cl. 24-636.000.

Bone, James, to Vickers Shipbuilding and Engineering Limited. Article handling apparatus. 4,687,409, 8-18-87, Cl. 414-750.000.

Bone, Ronald N., to Southwestern Bell Telephone. Pair cut apparatus and method of use. 4,639,555, 1-27-87, Cl. 379-327.000.

Bonebrake, Veronica A.: *See—*
  Bass, Vance R.; Bonebrake, Veronica A.; Garrison, David A.; Landis, James K.; Neff, Mary S.; Urquhart, Robert J.; and Williams, Susan C., 4,672,571, Cl. 364-900.000.
  Bass, Vance R.; Bonebrake, Veronica A.; Garrison, David A.; Landis, James K.; Neff, Mary S.; Urquhart, Robert J.; and Williams, Susan C., 4,701,851, Cl. 364-419.000.

Bonee, Joseph C., to Ashland Oil, Inc. Inhibiting leaching of metals from catalysts and sorbents and compositions and methods therefor. 4,701,219, 10-20-87, Cl. 106-118.000.

Bonel, Gilbert; Heughebaert, Jean C.; Chaabouni, Mohamed; and Ayedi, Hassine, to Centre National de la Recherche Scientifique. Process for separation of magnesium-based, and possibly fluorine-and aluminum-based impurities from a wet-produced phosphoric acid. 4,692,323, 9-8-87, Cl. 423-321.00R.

Bonelli, Fabio; Pessi, Antonello; and Verdini, Antonio S., to Enichem S.p.A.; and Eniricerche S.p.A. Partially modified, retro-inverso neurotensin analogs. 4,716,149, 12-29-87, Cl. 514-13.000.

Bonello, Philippe, to Sarcem S.A. Autolubricating bearing. 4,636,096, 1-13-87, Cl. 384-243.000.

Bonello, Philippe; and Jeanmonod, Maurice, to Sarcem S.A. Remote control catheter. 4,650,467, 3-17-87, Cl. 604-95.000.

Bonello, Philippe, to Sarcem S.A. Mechanical counter having a digital display. 4,674,106, 6-16-87, Cl. 377-82.000.

Bonenberger, Kenneth E., to Litton Systems, Inc. Rolling loop twist capsule. 4,693,527, 9-15-87, Cl. 439-13.000.

Bonenberger, Kenneth E., to Litton Systems, Inc. Limited rotation twist capsule. 4,710,131, 12-1-87, Cl. 439-13.000.

Bonenfant, Alain: *See—*
  Robin, Jacques; Pruneau, Didier; and Bonenfant, Alain, 4,710,505, Cl. 514-278.000.

Bonengel, Roland: *See—*
  Brandenstein, Manfred; Bonengel, Roland; and Dobhan, Herbert, 4,654,181, Cl. 264-328.120.

Boner, Heinrich: *See—*
  Fullemann, Jorg; and Boner, Heinrich, 4,712,997, Cl. 431-89.000.

Boner, James C.; Berger, Mitchel S.; and Fine, Marc, to Diasonics, Inc. Ultrasound guided surgical instrument guide and method. 4,681,103, 7-21-87, Cl. 128-303.00B.

Bonerb, Timothy C., to Bonerb, Vincent C. Material handling bins with inflatable liners. 4,673,112, 6-16-87, Cl. 222-386.500.

Bonerb, Timothy C., to Bonerb, Vincent C. Freight vehicle with a convertible cargo space. 4,678,389, 7-7-87, Cl. 414-267.000.

Bonerb, Vincent C. Disposable flexible liner for material storage and handling bag, and method of releasably installing the same. 4,658,989, 4-21-87, Cl. 222-105.000.

Bonerb, Vincent C.: *See—*
  Bonerb, Timothy C., 4,673,112, Cl. 222-386.500.
  Bonerb, Timothy C., 4,678,389, Cl. 414-267.000.

Bonet, Euclides J.: *See—*
  Barbosa, Luiz C. F.; Ribeiro, Adelman M.; Bonet, Euclides J.; and Branco, Celso C. M., 4,643,254, Cl. 166-292.000.

Boneta, Louis, to Moose Industries, Inc. Snow plow for small vehicles. 4,680,880, 7-21-87, Cl. 37-236.000.

Bonewitz, Hans-Ulrich: *See—*
  Ross, Dieter; Bonewitz, Hans-Ulrich; Christiansen, Uwe; Klein, Karl-Friedrich; Muhlich, Albert; Rau, Karlheinz; Ruffing, Wolfgang; Simmat, Fritz; Steinkohl, Anton; and Takke, Ralf, 4,676,814, Cl. 65-3.120.

Boney, Joel F., to Motorola, Inc. Floating point condition code generation. 4,683,546, 7-28-87, Cl. 364-748.000.

Bonfield, John H., to Allied Corporation. Method of preparing formaldoxime trimer. 4,680,394, 7-14-87, Cl. 544-193.000.

Bonfield, John H.; and Ulmer, Harry E., to Allied Corporation. Vapor phase synthesis of hexafluoroisobutylene. 4,705,904, 11-10-87, Cl. 570-142.000.

Bonfig, Karl-Walter; Himmel, Jorg; and Kuipers, Ulrich. Safety fuse assembly provided with an electro-optical indicator device. 4,641,120, 2-3-87, Cl. 337-242.000.

Bonfiglioli, Giampaolo: *See—*
  Vinciguerra, Constantino; and Bonfiglioli, Giampaolo, 4,648,626, Cl. 285-15.000.

Bonfilio, Paul F.; and Stobe, Richard. Modular chassis for land, sea and air vehicles. 4,676,545, 6-30-87, Cl. 296-197.000.

Bonfils, Georges, to Societe Europeenne pour la Defense de l'Invention et de la Creation. Method of making an assembly of a metal bearing ring and a solid or hollow cylindrical metal part, and an assembly so obtained. 4,651,402, 3-24-87, Cl. 29-446.000.

Bonfils, Georges L. A., to S.F.E.N.A., S.A. Device for mounting a relative displacement sensor on a beam having radial lugs. 4,685,338, 8-11-87, Cl. 73-862.620.

Bonga, Benno I., to Charmilles Technologies, S.A. Travelling wire EDM apparatus provided with electrode wire changer. 4,645,894, 2-24-87, Cl. 219-69.00W.

Bongard, James A.; Delaney, Michael J.; Duncan, Eugene F.; Fredricks, Cheryl A.; Groves, John P.; Kalista, Daniel J.; Klingseisen, Paul; Lazzaro, Joseph; and Nadolski, Gregory L., to Eaton Corporation. Electrical device with protective shroud for flexible electrical cable extending therefrom. 4,678,867, 7-7-87, Cl. 174-135.000.

Bongers, Antonius J. P.: *See—*
  Gaymans, Reinoud J.; and Bongers, Antonius J. P., 4,716,214, Cl. 528-335.000.

Bongers, Bernd: *See—*
  Brunsch, Klaus; Sappl, Peter; and Bongers, Bernd, 4,634,399, Cl. 464-87.000.

Bongers, Jozef J. M.; and Van Geenen, Albert A., to Stamicarbon B.V. N-substituted acyl-lactam compound. 4,692,521, 9-8-87, Cl. 540-451.000.

Bongers, Jozef J. M.: *See—*
  Van Geenen, Albert A.; and Bongers, Jozef J. M., 4,683,304, Cl. 540-529.000.
  Van Geenen, Albert A.; and Bongers, Jozef J. M., 4,692,520, Cl. 540-451.000.

Bongiovanni, Lino. Removing sediment from wine. 4,687,115, 8-18-87, Cl. 215-355.000.

Bongiovanni, Nicola; and Cianfarani, Vincent. Highway cable clamp. 4,709,887, 12-1-87, Cl. 248-66.000.

Bonham, Enos A., Jr., to Magma Power Company. Geothermal plant silica control apparatus and method. 4,665,705, 5-19-87, Cl. 60-641.500.

Bonhomme, Francois R. Connection devices for printed circuit cards. 4,669,795, 6-2-87, Cl. 439-267.000.

Bonhomme, Francois R. Processes for fabricating female electric connector elements and female connector elements thus obtained. 4,705,336, 11-10-87, Cl. 439-597.000.

Bonicel, Jean-Pierre, to Les Cables de Lyon. Connection between an optical fiber cable and a junction box, and a method of making the connection. 4,701,014, 10-20-87, Cl. 350-96.200.

Bonifield, Thomas D.: *See—*
  Douglas, Monte A.; and Bonifield, Thomas D., 4,654,112, Cl. 156-643.000.

Bonilla, Jorge A.; and Elliott, John D., to Foster Wheeler USA Corporation. Asphalt coking method. 4,686,027, 8-11-87, Cl. 208-39.000.

Bonin, Jean-Claude, to Lucas Industries public limited company. Fuel injection pumps for internal combustion engines. 4,658,793, 4-21-87, Cl. 123-502.000.

Bonin, Wayne A.; McCumber, Roger D.; and Teder, Rein S., to Vericom Corporation. Vehicle performance analyzer. 4,694,687, 9-22-87, Cl. 73-116.000.

Bonin, Yves; and Logeat, Michel, to Rhone-Poulenc Specialites Chimiques. Mixed polyester molding compositions. 4,704,417, 11-3-87, Cl. 524-140.000.

Boning, Werner, to Siemens Aktiengesellschaft. Method for controlling data transfer between a data transmitter and a data receiver through a bus by means of a control device connected to the bus, and a control device for carrying out the method. 4,635,191, 1-6-87, Cl. 364-200.000.

Bonis, Laszlo I.; Courville, George V.; and Opland, Samuel, to Composite Container Corporation. Coextruded multiple plastic layer slip pallet. 4,649,007, 3-10-87, Cl. 264-148.000.

Bonisch, Heinz-Jurgen; Brandl, Gerhard; Noor, Sybille; Oehling, Karl-Heinz; Riedl, Walter; Theissen, Mario; Wodiczka, Ernst; and Macht, Alwin, to Bayerische Motoren Werke Aktiengesellschaft. Installation for the control of the charging cycle in internal combustion engines. 4,691,670, 9-8-87, Cl. 123-52.0MF.

Bonisch, Ulrich: *See—*
  Klein, Wolf-Dieter; Feuchthofen, Alfons; Strecker, Claus; and Bonisch, Ulrich, 4,666,589, Cl. 208-413.000.

Bonitz, Jorg; Entenmann, Robert; Miller, Bernhard; Rauch, Hans; Rohde, Siegfried; Unland, Stefan; and Viess, Walter, to Robert Bosch GmbH. Engine knock control method and system with fail-safe mode. 4,700,677, 10-20-87, Cl. 123-425.000.

Bonjouklian, Rosanne; and Phillips, Michael L., to Eli Lilly and Company. 2-alkoxy-1-((2-trialkylaminoethoxy)phosphinyloxy)-alkenes and alkynes, hydroxy inner salts. 4,647,685, 3-3-87, Cl. 558-169.000.

Bonjouklian, Rosanne; and Phillips, Michael L., to Eli Lilly and Company. 2-alkoxy-1-alkoxy phosphoryl dichlorides. 4,659,859, 4-21-87, Cl. 558-188.000.

Bonjouklian, Rosanne; and Phillips, Michael L., to Eli Lilly and Company. 2-deoxypentose derivatives. 4,675,390, 6-23-87, Cl. 536-4.100.

Bonk, Benno: *See—*
  Hanke, Ernst W.; Bonk, Benno; and Schmitz, Erwin, 4,661,244, Cl. 209-139.200.

Bonk, Wernfried: *See—*
  Schomers, Josef; Erbele, Kurt; and Bonk, Wernfried, 4,679,121, Cl. 361-413.000.

Bonke, Norbert: *See—*
  Hardt, Walter; Werner, Franz; and Bonke, Norbert, 4,657,316, Cl. 312-7.200.

Bonko, Mark L.; and Lopp, Loran C., Jr., to Goodyear Tire & Rubber Company, The. Heavy duty pneumatic tire tread with lug and block pattern. 4,711,283, 12-8-87, Cl. 152-209.00B.

- Bonkohara, Manabu: *See—*
  - Takekawa, Kouichi; and Bonkohara, Manabu, 4,714,952, Cl. 357-75.000.
- Bonkowski, Lorne. Heat printed carrier and method. 4,688,367, 8-25-87, Cl. 53-398.000.
- Bonn, Bernhard: *See—*
  - Giertz, Franz; and Bonn, Bernhard, 4,651,520, Cl. 60-39.464.
- Bonn, Helmut: *See—*
  - Zeller, Gregor; and Bonn, Helmut, 4,657,326, Cl. 339-3.00S.
  - Zeller, Gregor; and Bonn, Helmut, 4,660,500, Cl. 116-31.000.
- Bonnamour, Michel: *See—*
  - Leclercq, Joseph; and Bonnamour, Michel, 4,645,642, Cl. 376-364.000.
  - Le Pargneux, Jacques; Bonnamour, Michel; and Filary, Gerard, 4,653,180, Cl. 29-723.000.
- Bonnard, Jean-Louis: *See—*
  - Peyrot, Jean-Claude; and Bonnard, Jean-Louis, 4,683,656, Cl. 30-162.000.
- Bonnargent, Alain: *See—*
  - Foucault, Joel; and Bonnargent, Alain, 4,688,318, Cl. 29-523.000.
- Bonne, Claude: *See—*
  - Coquelet, Claude; Bertez, Chantal; Bonne, Claude; and Sincholles, Daniel, 4,656,184, Cl. 514-370.000.
  - Coquelet, Claude; Battais, Elisabeth; Bonne, Claude; and Sincholle, Daniel, 4,665,085, Cl. 514-398.000.
- Bonnel, Yves: *See—*
  - Battie, Gabriel; and Bonnel, Yves, 4,671,867, Cl. 209-3.000.
- Bonnemann, Helmut: *See—*
  - Bogdanovic, Borislav; and Bonnemann, Helmet, 4,713,110, Cl. 75-0.50A.
- Bonnenfant, Yvon; Odet, Philippe; Perne, Raymond; and Thevenot, Claude, to Societe Generale des Eaux Minerales de Vittel; and Astra Plastique. Container and sealing assembly. 4,679,696, 7-14-87, Cl. 215-252.000.
- Bonner, Billie M.: *See—*
  - Bonner, Wayman A.; and Bonner, Billie M., 4,707,939, Cl. 40-591.000.
- Bonner, James D.: *See—*
  - Zingler, Christian J.; and Bonner, James D., 4,643,058, Cl. 83-23.000.
- Bonner, John K.: *See—*
  - Basu, Rajat S.; Wilson, David P.; Lund, Earl A. E.; Pham, Hang T., and Bonner, John K., 4,655,956, Cl. 252-153.000.
  - Wilson, David P.; Basu, Rajat S.; Pham, Hang T.; Lund, Earl A. E.; and Bonner, John K., 4,654,160, Cl. 252-153.000.
- Bonner, Wayman A.; and Bonner, Billie M. Bumper sticker replacement bracket. 4,707,939, 11-24-87, Cl. 40-591.000.
- Bonnesen, John S.; and Sporer, Timothy J., to Reliance Comm/Tec Corporation. Gas discharge arrester. 4,680,665, 7-14-87, Cl. 361-120.000.
- Bonnet, Jacqueline: *See—*
  - Moinet, Gerard; Schaeffer, Michel; Bessin, Pierre; and Bonnet, Jacqueline, 4,647,557, Cl. 514-210.000.
- Bonnet, Ludwig, to Richard Wolf GmbH. Instrument insert for a uretero-renoscope. 4,653,476, 3-31-87, Cl. 128-4.000.
- Bonnet, Ludwig. Uretero-renoscope. 4,685,449, 8-11-87, Cl. 128-4.000.
- Bonnet, Ludwig; and Hiltebrandt, Siegfried, to Richard Wolf GmbH. Instrument for endoscopic operations. 4,686,965, 8-18-87, Cl. 128-4.000.
- Bonnet, Ludwig, to Richard Wolf GmbH. Catheter for widening a puncture channel. 4,686,984, 8-18-87, Cl. 128-343.000.
- Bonnet, Ludwig. Instrument for slitting stenoses in bodily passages. 4,712,547, 12-15-87, Cl. 128-311.000.
- Bonnet, Maurice: *See—*
  - Morell, Joseph; Benoit, Louis; and Bonnet, Maurice, 4,633,599, Cl. 36-50.000.
  - Morell, Joseph; Benoit, Louis; and Bonnet, Maurice, 4,653,204, Cl. 36-117.000.
  - Morell, Joseph; Benoit, Louis; and Bonnet, Maurice, 4,660,300, Cl. 36-50.000.
- Bonnet, Michel: *See—*
  - Tkatchenko, Igor; Jaouhari, Rabih; Bonnet, Michel; Dawkins, Gordon; and Lecolier, Serge, 4,709,087, Cl. 560-339.000.
- Bonneton, Marc; and Janvier, Dominique, to Societe Anonyme REDOUTE CATALOGUE. Automated self-powered material handling truck. 4,678,390, 7-7-87, Cl. 414-282.000.
- Bonnett, Richard J.: *See—*
  - Sofianek, Joseph C.; Tognella, Ugo R.; and Bonnett, Richard J., 4,665,287, Cl. 200-144.00B.
- Bonniau, Michel; and Schueller, Pierre, to Merlin Gerin. Polarized electromagnetic relay with magnetic latching for an electric circuit breaker trip release. 4,660,012, 4-21-87, Cl. 335-234.000.
- Bonniau, Michel; and Paupert, Marc, to Merlin Gerin. Residual differential device equipped with a surveillance system for the electronic power supply. 4,663,690, 5-5-87, Cl. 361-44.000.
- Bonnie, Gene P.: *See—*
  - Jallen, Gale A.; and Bonnie, Gene P., 4,692,898, Cl. 365-27.000.
- Bonnke, Martin; and Bothe, Lothar, to Hoechst Aktiengesellschaft. Polyolefin molding composition. 4,649,171, 3-10-87, Cl. 524-381.000.
- Bonnke, Martin; and Bothe, Lothar, to Hoechst Aktiengesellschaft. Polyolefin molding composition. 4,670,499, 6-2-87, Cl. 524-427.000.
- Bonnyay, Laszlo: *See—*
  - Pietzsch, Kurt E.; and Bonnyay, Laszlo, 4,640,775, Cl. 210-387.000.
- Bono, Francesco. Transportable, twin telescopic arm platform hoist. 4,706,779, 11-17-87, Cl. 182-63.000.
- Bono, Giancarlo: *See—*
  - Tognoli, Pietro; Cremaschi, Gianfranco; Migliacci, Antonio; and Bono, Giancarlo, 4,703,890, Cl. 238-7.000.
- Bono, Salvatore A. Toilet seat disenfecting device. 4,713,845, 12-22-87, Cl. 4-233.000.
- Bonomelli, Vaifro V. Furnace grate. 4,676,176, 6-30-87, Cl. 110-281.000.
- Bonomini, Vittorio, to Crinos Industria Farmacobiologica S.p.A. Pharmaceutical composition containing defibrotide for the treatment of states of acute renal insufficiency. 4,649,134, 3-10-87, Cl. 514-44.000.
- Bononi, Walter H. Pad. 4,695,140, 9-22-87, Cl. 351-139.000.
- Bonora, Anthony C., to Asyst Technologies. Short arm manipulator for standard mechanical interface apparatus. 4,674,936, 6-23-87, Cl. 414-217.000.
- Bonora, Anthony C.; and O'Sullivan, Andrew W., to Asyst Technologies. Long arm manipulator for standard mechanical interface apparatus. 4,676,709, 6-30-87, Cl. 414-217.000.
- Bonotto, Albert. Golf training device. 4,662,639, 5-5-87, Cl. 273-183.00C.
- Bonsack, James P.; and Robinson, Michael, to SCM Corporation. Chlorination of ores containing alkali or alkaline earth values. 4,652,434, 3-24-87, Cl. 423-155.000.
- Bonse, Bernhard; and Schmidt, Peter-Jurgen, to Robert Bosch GmbH. Fuel controlled injection system. 4,651,697, 3-24-87, Cl. 123-436.000.
- Bonse, Dirk: *See—*
  - Weidenbach, Guenter; Bonse, Dirk; and Meyer, Boris, 4,665,025, Cl. 435-94.000.
- Bonser, Steven M.; Bugner, Douglas E.; and Demejo, Lawrence P., to Eastman Kodak Company. Electrographic toner and developer composition containing quaternary ammonium salt charge-control agent. 4,684,596, 8-4-87, Cl. 430-110.000.
- Bonsness, Douglas M.: *See—*
  - Burkholder, Dennis H.; and Bonsness, Douglas M., 4,703,562, Cl. 33-27.110.
- Bonstrom, Bengt N. V. Rail for a track bound vehicle. 4,657,181, 4-14-87, Cl. 238-130.000.
- Bonta, Jeffrey D., to Motorola, Inc. Handoff apparatus and method with interference reduction for a radio system. 4,696,027, 9-22-87, Cl. 379-60.000.
- Bonta, Jeffrey D.: *See—*
  - Labedz, Gerald P.; Bonta, Jeffrey D.; Schaeffer, Dennis R.; Tell, Daniel F.; and Lev, Valy, 4,654,867, Cl. 379-59.000.
- Bontemps, Raymond. Portable device for skin massage by cold. 4,681,095, 7-21-87, Cl. 128-24.100.
- Bontoux, Daniel: *See—*
  - Hennuy, Jean-Pierre; and Bontoux, Daniel, 4,669,207, Cl. 38-77.500.
  - Schwob, Pierre; and Bontoux, Daniel, 4,673,909, Cl. 357-407.000.
- Bontrager, Ivan W.: *See—*
  - Mullet, David L.; and Bontrager, Ivan W., 4,691,784, Cl. 172-15.000.
- Bonvallet, Duane J., to General Motors Corporation. Variable valve lift/timing mechanism. 4,638,773, 1-27-87, Cl. 123-90.160.
- Bonvallet, Duane J., to General Motors Corporation. Valve deactivator mechanism. 4,711,207, 12-8-87, Cl. 123-198.00F.
- Bonye, Gordon R., to Rank Electronic Tubes Limited. Cathode ray tube. 4,701,789, 10-20-87, Cl. 358-65.000.
- Boodanian, Leon P.: *See—*
  - Magdesyan, Garnik; Magdesyan, Stepan; and Boodanian, Leon P., 4,695,118, Cl. 439-726.000.
- Boogerman, Allan: *See—*
  - Krohn, Duane D.; and Boogerman, Allan, 4,692,048, Cl. 401-197.000.
- Booher, Howard. Alignment coupling device for dump trailers. 4,671,526, 6-9-87, Cl. 280-433.000.
- Book, Anton M.; Wiggins, Robert J.; and Fonseca, Alan D. Engine protection system. 4,653,445, 3-31-87, Cl. 123-198.0DC.
- Book Covers Inc.: *See—*
  - Carter, Leewood C.; Neary, Robin P.; and Mullen, Robert, 4,636,185, Cl. 493-127.000.
  - Carter, Leewood C.; and Neary, Robin P., 4,685,610, Cl. 229-23.00R.
- Book, Marshall K.: *See—*
  - Green, Carlos J.; Hirsius, John L.; and Book, Marshall K., 4,677,970, Cl. 128-82.100.
- Book, Ronald J.: *See—*
  - Wiacek, Marian; and Book, Ronald J., 4,670,362, Cl. 429-174.000.
- Book, William J.; Scott, Julian C.; and Grace, James A., to Westinghouse Electric Corp. Electrical distribution apparatus having draw-out surge arrester. 4,679,113, 7-7-87, Cl. 361-40.000.
- Booker, William L., to Boeing Company, The. Electrical contact retainer. 4,676,572, 6-30-87, Cl. 439-301.000.
- Bookout, Donald W.: *See—*
  - Marcade, Roque D.; Thurlow, Sandra S.; Bookout, Donald W.; and Tershak, Andrew T., 4,646,528, Cl. 62-127.000.
- Boolootian, Mark R.: *See—*
  - Eads, Rand E.; Boolootian, Mark R.; and Hankin, Steven C. 4,660,422, Cl. 73-863.020.
- Boomer, John: *See—*
  - Burgher, Peter H.; and Boomer, John, 4,703,158, Cl. 219-90.000.
- Boomgaard, Dirk J.; Fetrow, James D.; Geis, Charles G.; Mills, Fred J.; and Neuner, James A., to Westinghouse Electric Corp. Method and apparatus for remotely monitoring a process carried out in a containment structure. 4,668,465, 5-26-87, Cl. 376-216.000.
- Boomgaard, Dirk J.: *See—*
  - Engel, Joseph C.; Boomgaard, Dirk J.; and Vercellotti, Leonard C. 4,646,319, Cl. 375-7.000.

Neuner, James A.; and Boomgaard, Dirk J., 4,714,926, Cl. 340-870.360.
Boomgaarden, Jonathan C.; Bautista, Bruce Q.; Davis, Charles R.; and Frank, Steven R., to General Electric Company. Film positioner. 4,651,337, 3-17-87, Cl. 378-177.000.
Boon, Charles W. Roll lifting, transporting, and unrolling dolly system and method. 4,711,407, 12-8-87, Cl. 242-86.520.
Boon, Cornelis A. M.: *See—*
  Kraus, Uwe E.; Boudewijns, Arnoldus J. J.; Boon, Cornelis A. M.; and Frensch, Adrianus J., 4,672,449, Cl. 358-148.000.
Boon, Mathilde E.: *See—*
  Kok, Lanbrecht P.; and Boon, Mathilde E., 4,656,047, Cl. 427-2.000.
Boonants Marius; and Biefnot, Henri. Articulated bedspring and mattress for use with such articulated bedspring. 4,674,140, 6-23-87, Cl. 5-68.000.
Boone, David D., to Lynx Golf, Inc. Golf glove. 4,691,388, 9-8-87, Cl. 2-161.00A.
Boone, Joseph E.; and Ahlemeyer, W. Bruce, to Regency Electronics, Inc. Transportation vehicle location monitor generating unique audible messages. 4,713,661, 12-15-87, Cl. 340-994.000.
Boone, Otho: *See—*
  Stouffer, Ronald D.; and Boone, Otho, 4,644,854, Cl. 98-2.090.
Boone, Rhonda: *See—*
  Savit, Carl H.; Boone, Rhonda; and Doyle, Mark, 4,707,787, Cl. 364-420.000.
Boone, Susan L.; and Stuart, Hugh D., to Motorola, Inc. Fail safe protection circuitry for a commerical microprocessor in encryption equipment. 4,635,223, 1-6-87, Cl. 364-900.000.
Boone, Terry. Carburetion system and method for vaporizing fuel and for mixing vaporized heated fuel with air to power an internal combustion engine. 4,715,997, 12-29-87, Cl. 261-142.000.
Boord, Leslie F., to Dragerwerk Aktiengesellscaft. Alarm device for respirators. 4,669,415, 6-2-87, Cl. 116-70.000.
Boos, Donald L.; and Marse, Allan V., to Standard Oil Company. Double layer capacitor. 4,713,731, 12-15-87, Cl. 361-433.000.
Boos, Gunther, to Alfred Bolz GmbH & Co. KG. Apparatus for transporting articles by fluid flow through a pipe system. 4,637,760, 1-20-87, Cl. 406-105.000.
Boos, Margareta: *See—*
  Tappe, Horst; Kruse, Hubert; Kuhn, Reinhard; Bode, Albert; and Boos, Margareta, 4,678,476, Cl. 8-639.000.
Boostrom, Roy E.: *See—*
  Nelson, Michael R.; Boostrom, Roy E.; Cahill, Jerry E.; and Hwang, Tzong, 4,692,883, Cl. 364-571.000.
Boot, Alan, to Ferranti plc. Method of extending the field of view in a head-up display. 4,647,142, 3-3-87, Cl. 350-3.700.
Boote, Carey J.; Robbins, Craig; and Spykerman, Scott A., to Prince Corporation. Illuminated vanity mirror package for a visor. 4,648,011, 3-3-87, Cl. 362-135.000.
Boote, Peter J.: *See—*
  Reece, Marvin P.; and Boote, Peter J., 4,676,482, Cl. 251-365.000.
Booten, Sigmund: *See—*
  Boehm, Peter; Volz, Peter; Bischoff, Gilbert; Booten, Sigmund; Engert, Klaus; and Loew, Albin, 4,641,568, Cl. 91-369.00A.
Booth, David E.; Smith, Steven G.; and Adams, John L., to RCA Corporation. Kinescope funnel thumper and flush device. 4,678,448, 7-7-87, Cl. 445-60.000.
Booth, Dwight E.; and Cory, Michael L., to Dana Corporation. Method of forming a coupling disc for an electromagnetic coupling. 4,685,202, 8-11-87, Cl. 29-607.000.
Booth, Inc.: *See—*
  Pritchett, James D., 4,678,104, Cl. 222-146.600.
Booth, Llewellyn D.; Christen, Jimmie D.; and Clarke, William D., to Dow Chemical Company, The. Molded rigid polyurethane foams prepared from aminoalkylpiperazine-initiated polyols. 4,704,410, 11-3-87, Cl. 521-166.000.
Booth, Llewellyn D.; and Cohen, Arie, to Dow Chemical Company, The. Process for reducing the distortion of multi-layered laminates. 4,713,202, 12-15-87, Cl. 264-46.500.
Booth, Malcolm: *See—*
  Winstanley, Ray; Farrell, Trevor; and Booth, Malcolm, 4,663,763, Cl. 373-26.000.
Booth, Michael; and Penneck, Richard J., to Raychem Limited. Method of making coaxial cable. 4,715,098, 12-29-87, Cl. 29-25.350.
Booth, Peter A. Combined toothbrush and toothpaste dispenser. 4,693,622, 9-15-87, Cl. 401-191.000.
Booth, Thomas A.: *See—*
  Pferd, William, III; Milow, Joshua; and Booth, Thomas A., 4,677,683, Cl. 382-65.000.
Booth, Thomas L.; Schlaps, Edgar H.; and Wilde, Ronald J., to General Motors Corporation. Vehicle power window control. 4,683,975, 8-4-87, Cl. 180-289.000.
Booth, Vernard, to Georgia-Pacific Corporation. Locking carton bottom. 4,650,112, 3-17-87, Cl. 229-157.000.
Booth, William L.; and Stone, Leslie S. Apparatus for moving a traffic barrier. 4,653,954, 3-31-87, Cl. 404-6.000.
Booth, William M., III: *See—*
  Richmond, James W.; Tice, Robert G.; and Booth, William M., III, 4,655,754, Cl. 604-323.000.
Boothe, Jerry E.; and Schaper, Raymond J., to Calgon Corporation. Acrylic acid/2-acrylamido-2-methylpropylsulfonic acid/2-acrylamido-2-methylpropyl phosphonic acid polymers as scale and corrosion inhibitors. 4,650,591, 3-17-87, Cl. 210-700.000.
Boothe, Lee H., to Wing, Harold R. Release mechanism for locking hinge for multi-positioned ladder. 4,697,305, 10-6-87, Cl. 16-329.000.
Boots-Celltech Diagnostics Limited: *See—*
  Baker, Terence S.; Abbott, Stephen R.; Simpson, John G.; Wright, John F.; and Powell, Michael J., 4,656,143, Cl. 436-527.000.
  Baker, Terence S.; Powell, Michael J.; and Titmas, Richard C., 4,716,109, Cl. 435-7.000.
Boots Company Plc, The: *See—*
  Brunt, Keith D.; and Higton, Frederick R., 4,636,476, Cl. 436-23.000.
  Davies, Roy V.; and Green, Richard D., 4,659,718, Cl. 514-312.000.
  Davies, Roy V.; and Fraser, James, 4,710,506, Cl. 514-301.000.
Boots, Gordon C., to A. Duda & Sons, Inc. Single pass sod cutting machine for producing hexagonally shaped plugs. 4,694,717, 9-22-87, Cl. 83-222.000.
Boots, Robert T., to Vermeulen-Hollandia Octrooien II B.V. Open roof-construction for a vehicle. 4,643,478, 2-17-87, Cl. 296-221.000.
Boots, Robert T., to Vermeulen-Hollandia Octrooien II B.V. Sliding roof for a vehicle. 4,650,244, 3-17-87, Cl. 296-223.000.
Boots, Robert T., to Vermeulen-Hollandia Octrooien II B.V. Open roof construction for a vehicle. 4,673,210, 6-16-87, Cl. 296-221.000.
Boots, Robert T., to Vermeulen-Hollandia Octrooien II B.V. Sliding roof for a vehicle. 4,678,228, 7-7-87, Cl. 296-216.000.
Boozer, Allen: *See—*
  Reiman, Allan, and Boozer, Allen, 4,668,464, Cl. 376-133.000.
Boozer, Allen H.: *See—*
  Reiman, Allan; and Boozer, Allen H., 4,663,109, Cl. 376-142.000.
Boozer, James M.; Mayer, Robert W.; Kumasaka, Alan J.; Strelecki, Paul R.; and Lindlau, Paul F., to Amerace Corporation. Fail-safe sensor system. 4,682,153, 7-21-87, Cl. 340-507.000.
Boozer, S. David, to Boozer, S. David. Solar radiation assembly. 4,658,806, 4-21-87, Cl. 126-450.000.
Bopp & Reuther GmbH: *See—*
  David, Walfried, 4,699,359, Cl. 251-329.000.
  Milsch, Ulrich; and Pohlig, Wolf-Dieter, 4,648,279, Cl. 73-861.170.
  Schmitt, Manfred; and Illius, Herbert, 4,643,219, Cl. 137-454.600.
Bopp, Warren G.; and Janson, David A., to Eaton Corporation. Torsion damping assembly. 4,690,256, 9-1-87, Cl. 192-21.000.
Bopp, Warren G., to Eaton Corporation. Torsion damping mechanism. 4,703,840, 11-3-87, Cl. 192-3.210.
Bopst, John H., III. Portable security lock. 4,653,786, 3-31-87, Cl. 292-295.000.
Bopst, John H., III; and Zakro, Joyce M. System for automatic measuring and dispensing of grain and powder food products. 4,708,265, 11-24-87, Cl. 222-43.000.
Bor-es Cipoipari Kutato-Fejleszto Vallalat: *See—*
  David, Dezso; Rovo, Peter; Sipos nee Richter, Terez; Molnar, Gyorgy; Deme, Istvan; and Karnitscher, Tamas, 4,713,078, Cl. 8-94.150.
Bor, Ilona: *See—*
  Bezzegh, Denes; Fekete, Pal; Toth, Zoltan; Bor, Ilona; and Fellner, Erzsebet, 4,647,599, Cl. 523-105.000.
Bor, Zsolt: *See—*
  Schafer, Fritz P.; Szatmari, Sandor; and Bor, Zsolt, 4,641,312, Cl. 372-25.000.
Boral (USA) Inc.: *See—*
  Thompson, Roger D., 4,706,421, Cl. 52-94.000.
Boram, Robert J., to R. F. Shoup Corporation. Electronic voting machine and system. 4,641,240, 2-3-87, Cl. 364-409.000.
Boram, Robert J., to R. F. Shoup Corporation. Memory cartridge for electronic voting system. 4,641,241, 2-3-87, Cl. 364-409.000.
Boraso, Romeo: *See—*
  Roman, Gianfranco; and Boraso, Romeo, 4,706,906, Cl. 242-86.000.
Boratgis, James P.; and Hale, Gary J. Reprogrammable call forwarding device. 4,670,628, 6-2-87, Cl. 379-69.000.
Borbe, Harald: *See—*
  Biedermann, Jurgen; Borbe, Harald; Graf, Erich; Hilboll, Gerd; and Prop, Gerrit, 4,661,487, Cl. 514-252.000.
  Hilboll, Gerd; Prop, Gerrit; Borbe, Harald; Lohr, Josef P.; and Doppelfeld, Ille-Stephanie, 4,643,998, Cl. 514-252.000.
Borbely, Gyorgy: *See—*
  Radtke, Wolfgang; Borbely, Gyorgy; Pallhorn, Sebald; and Hollfritsch, Erich, 4,637,184, Cl. 52-220.000.
Borcea, Nicky; Ionescu, Alexandru D.; and Barbulescu, Mihai S., to Robohand, Inc. Electromagnetic gripper assembly. 4,667,998, 5-26-87, Cl. 294-88.000.
Borchardt, Horst, to Arntz-Optibelt-KG. Process for manufacturing endless belts. 4,710,251, 12-1-87, Cl. 156-137.000.
Borchardt, Michael G.; Dorsey, Robert T.; and Kamp, Ewald A., to First Brands Corporation. Trident interlocking closure profile configuration. 4,710,968, 12-1-87, Cl. 383-63.000.
Borchert, Earl E.; Urban, Robert J.; and Barker, Ray E., to International Minerals & Chemical Corp. Method of decolorizing wet process phosphoric acid. 4,643,883, 2-17-87, Cl. 423-321.00S.
Borchert, Werner, to GEA Energiesystemtechnik GmbH & Co. Apparatus for retrieving spherically shaped cleansing bodies. 4,688,630, 8-25-87, Cl. 165-95.000.
Borchert, Werner, to GEA Energiesystemtechnik GmbH & Co. Apparatus for retrieving spherically shaped cleansing bodies. 4,694,892, 9-22-87, Cl. 165-95.000.
Borda, Rafael U. Combination key. 4,662,200, 5-5-87, Cl. 70-411.000.
Bordas, Barna; Gimesi, Antal; Kovacs nee Kalman, Magda; Janos, Eva; Matolcsy, Gyorgy; and Tuske, Marton, to Eszakmagyarorszagi Vegyimuvek. Composition for prolonging the action of herbicides and herbicide compositions with a prolonged action. 4,695,309, 9-22-87, Cl. 71-88.000.
Bordas, Barna; Gimesi, Antal; Kovacs nee Kalman, Magda; Janos, Eva; Matolcsy, Gyorgy; and Tuske, Marton, to Eszakmagyarorszagi

Vegyimuvek. Composition for prolonging the action of herbicides and herbicide compositions with a prolonged action. 4,695,313, 9-22-87, Cl. 71-100.000.

Bordat, Andre: *See—*
- Bordreuil, Jacques; Lepage, Michel; and Bordat, Andre, 4,697,533, Cl. 114-44.000.

Bordbar, Hosrow T., to Thomas & Betts Corporation. Strippable shielded electrical cable assembly. 4,698,457, 10-6-87, Cl. 174-36.000.

Borden Company Limited, The: *See—*
- Navratil, Martin; Mitchell, Mark S.; and Sovak, Mojmir, 4,663,367, Cl. 523-130.000.

Borden, David M. Tool for fireman. 4,646,378, 3-3-87, Cl. 7-140.000.

Borden, Inc.: *See—*
- Boudreaux, Donald P., 4,675,193, Cl. 426-35.000.
- Brown, Orville E., 4,675,351, Cl. 524-20.000.
- Matuszak, Edward A.; Lee, Yanien; and Gillmore, Stephen R., 4,640,843, Cl. 426-560.000.
- Nelson, Catherine E.; Crowley, Dennis E.; and Weatherford, Wayne M., 4,701,329, Cl. 426-74.000.
- Pouget, Jacques; Lipovac, Vincent; and de Mauduit, Yves, 4,705,586, Cl. 156-242.000.

Bordenave, John R. P., to Lockheed Missiles & Space Company, Inc. Rugged multimode antenna. 4,709,240, 11-24-87, Cl. 343-772.000.

Borders, Donald B.: *See—*
- Carter, Guy T.; Greenstein, Michael; Goodman, Joseph J.; Borders, Donald B.; Maiese, William M.; and Testa, Raymond T., 4,705,688, Cl. 424-122.000.
- Kirby, Jane P.; Fantini, Amedeo A.; Borders, Donald B.; Testa, Raymond T.; and Martin, John H. E. J., deceased, 4,650,765, Cl. 435-254.000.
- Kirby, Jane P.; Borders, Donald B.; Lee, May D.; Maiese, William M.; Testa, Raymond T.; and Labeda, David P., 4,699,790, Cl. 424-117.000.
- Lee, May D.; Martin, John H.; Borders, Donald B.; Yao, Raymond C.; and Testa, Raymond T., 4,677,071, Cl. 435-253.000.

Borders, Richard: *See—*
- Gibilisco, Kenneth J.; Degnen, Stephen; and Borders, Richard, 4,653,668, Cl. 221-298.000.

Bordignon, Abramo, to A.T.B. S.p.A. Tape wiping brush, particularly for magnetic tape cassettes and the like. 4,639,967, 2-3-87, Cl. 15-256.500.

Bordoloi, Binoy K.; Ozari, Yehuda; and Dever, Gerald R., to Avery International Corporation. Pressure-sensitive adhesive containing heat-sensitive materials, and method of making the same. 4,714,655, 12-22-87, Cl. 428-345.000.

Bordon, Ernesto E., to Schlumberger Technology Corporation. Control system for borehole tools. 4,648,471, 3-10-87, Cl. 175-4.550.

Bordoni, Maurice E.; and Lieberman, Ephraim, to Cadema Medical Products, Inc. Radioactive aerosol inhalation apparatus. 4,703,753, 11-3-87, Cl. 128-200.140.

Bordovsky, Michael J.; and Feik, John W., to Dermatalogical Products of Texas. Polycarboxylic acid polymer gels as protective agents. 4,709,712, 12-1-87, Cl. 132-7.000.

Bordreuil, Jacques; Lepage, Michel; and Bordat, Andre, to Constructions Mecaniques de Normandie. Device for hoisting boats on board ships. 4,697,533, 10-6-87, Cl. 114-44.000.

Borduz, Lucian; and Raj, Kuldip, to Ferrofluidics Corporation. Low viscosity, electrically conductive ferrofluid composition and method of making and using same. 4,687,596, 8-18-87, Cl. 252-510.000.

Borduz, Lucian: *See—*
- Gowda, Hanumaiah L.; Raj, Kuldip; and Borduz, Lucian, 4,673,997, Cl. 360-107.000.

Bore, Pierre: *See—*
- Arnaud, Jean-Claude; and Bore, Pierre, 4,642,294, Cl. 436-5.000.

Borel, Denis, to SRO Kugellagerwerke, J. Schmid-Roost. Linear bearing for continuous longitudinal movement. 4,702,623, 10-27-87, Cl. 384-45.000.

Borel, Georg, to Hermann Wangner GmbH & Co., KG. Papermachine fabric in the form of a spiral link belt covered with nonwoven fabric. 4,649,074, 3-10-87, Cl. 428-222.000.

Borel, Georg, to Hermann Wangner GmbH & Co. KG. Spiral link belt with protected edges. 4,676,369, 6-30-87, Cl. 198-853.000.

Borel, Georg, to Hermann Wagner GmbH & Co. KG. Sheet forming fabric with reinforced margins. 4,702,952, 10-27-87, Cl. 428-193.000.

Borel, Helina: *See—*
- Borel, Yves; Stollar, B. David; Borel, Helina; and Gallop, Paul M., 4,650,675, Cl. 424-85.000.

Borel, Joseph, to Societe pour l'Etude et la Fabrication de Circuits Integres Speciaux E.F.C.I.S. Process for manufacturing isolated semi conductor components in a semi conductor wafer. 4,679,309, 7-14-87, Cl. 29-576.00W.

Borel, Richard A.: *See—*
- Spencer, John E.; Borel, Richard A.; Linxwiler, Kenneth E.; and Hoff, Andrew M., 4,673,456, Cl. 156-345.000.

Borel, Yves; Stollar, B. David; Borel, Helina; and Gallop, Paul M., to Children's Medical Center Corporation, The. Oligonucleotide conjugates. 4,650,675, 3-17-87, Cl. 424-85.000.

Boreland, Peter C.: *See—*
- Wilkinson, James H.; Ive, John G. S.; and Boreland, Peter C., 4,656,514, Cl. 358-160.000.
- Wilkinson, James H.; and Boreland, Peter C., 4,660,103, Cl. 360-18.000.
- Wilkinson, James H.; and Boreland, Peter C., 4,675,735, Cl. 358-160.000.

Borell, Michael C.: *See—*
- Marklund, Olle E.; Elmlid, Carl-Gustaf; Marklund, Ulf P.; and Borell, Michael C., 4,681,268, Cl. 241-24.000.

Borella, Raymond A.: *See—*
- Phillipps, Gordon H.; Williamson, Christopher; Steeples, Ian P.; Bain, Brian M.; and Borella, Raymond A., 4,650,800, C 514-259.000.

Borelli, Francis J., III. Dual drink holder for receipt on an automobile center console. 4,643,342, 2-17-87, Cl. 224-42.420.

Boren, Arthur D.: *See—*
- Benzing, David W.; Benzing, Jeffrey C.; Boren, Arthur D.; and Tang, Ching C., 4,657,616, Cl. 156-345.000.

Boren, Benjamin E.: *See—*
- Whitten, Gilbert Y., Jr.; Joyner, Kenneth E., Jr.; and Boren, Benjamin E., 4,691,868, Cl. 241-24.000.

Borenson, Henry. Teaching apparatus and method for solving algebraic linear equations. 4,713,009, 12-15-87, Cl. 434-188.000.

Borenstein, Arnold L.: *See—*
- Borenstein, Daniel W.; and Borenstein, Arnold L., 4,651,771, C 137-296.000.

Borenstein, Charles, to Cryo-Genics, Inc. Shaving cooler. 4,642,891, 2-17-87, Cl. 30-90.000.

Borenstein, Daniel W.; and Borenstein, Arnold L. Hydrant protective cap and cover structure and operating wrench therefor. 4,651,771, 3-24-87, Cl. 137-296.000.

Borenstein, David E., to Phillips Petroleum Company. Filament jet entangler. 4,639,986, 2-3-87, Cl. 28-272.000.

Borer, Claude; and Greter, Andreas, to Hoffmann-La Roche Inc. Cuvette. 4,639,135, 1-27-87, Cl. 356-246.000.

Borer, Claude; and Schildknecht, Kurt, to Hoffmann-La Roche Inc. Method and cuvette for photometric analysis. 4,648,713, 3-10-87, C 356-246.000.

Bores, Leonard F.; and Zdziarski, Mark J., to ASC Incorporated. Locator and hold-down latch for removable vehicle roof panels. 4,715,649, 12-29-87, Cl. 296-218.000.

Borg, Arthur N.; and Bar-Hai, Giora, to Zenith Electronics Corporation. Memory loss protection circuit. 4,692,903, 9-8-87, C 365-226.000.

Borg, Arthur N., to Zenith Electronics Corporation. Video display terminal with multi frequency dot clock. 4,701,753, 10-20-87, C 340-731.000.

Borg, Bo I. B.; and Dudek, Peter P., to ACO Lakemedel AB. Valve element. 4,660,747, 4-28-87, Cl. 222-213.000.

Borg, Jeffrey E., to Multiflex International, Inc. Umbilical safety joint. 4,653,776, 3-31-87, Cl. 285-2.000.

Borg, Kevin E.; and Forman, Craig E., to AT&T Technologies, Inc. Method and apparatus for detecting synchronous or asynchronous data transmission. 4,635,275, 1-6-87, Cl. 375-8.000.

Borg-Warner Automotive, Inc.: *See—*
- Amuda, Suarawu O., 4,694,127, Cl. 200-83.00P.
- Atkinson, Robert W., and Fisher, Jack M., 4,662,242, C 74-701.000.
- Cole, Edward H., Jr., 4,708,701, Cl. 474-245.000.
- Devall, Jeffrey E.; and Reinke, Ronald E., 4,679,580, C 137-39.000.
- Frantz, Robert A.; and Lech, Thaddeus, Jr., 4,651,859, C 192-106.200.
- Gilmore, William N., Jr.; and Leaver, William H., 4,659,235, C 374-143.000.
- Hall, David A.; and Yuergens, Kenneth C., 4,694,941, C 192-3.280.
- Lamarche, Paul E., 4,702,721, Cl. 464-67.000.
- Lech, Thaddeus, Jr.; and Mullard, Bruce A., 4,679,679, C 192-106.200.
- McColl, John W.; Mott, Philip J.; and Salle, Ralph D., 4,706,78 Cl. 192-0.075.
- Mott, Philip J., 4,650,445, Cl. 474-201.000.
- Patzer, Helmut; Giese, Manfred; and Muller, Rudolf, 4,698,889, C 29-159.200.
- Petzold, Werner P.; and Miller, Alan L., 4,648,496, Cl. 192-0.076
- Schneider, Karl F., 4,666,594, Cl. 210-168.000.
- Wang, Ting M., 4,689,953, Cl. 60-330.000.

Borg-Warner Chemicals, Inc.: *See—*
- Falk, John C.; and Kliever, Leland B., 4,659,766, Cl. 524-504.000
- Giori, Claudio; and Mylonakis, Stamatios G., 4,703,083, C 525-87.000.
- Giori, Claudio; and Mylonakis, Stamatios G., 4,703,084, C 525-87.000.
- Halpern, Yuval, 4,695,601, Cl. 524-362.000.
- Jalbert, Ronald L.; and Grant, Thomas S., 4,654,405, C 525-391.000.
- Marlin, Gary V.; and York, James F., 4,665,211, Cl. 558-78.000
- Miller, Curtis M.; Myers, Charles L.; and Parsons, Charles F. 4,634,732, Cl. 524-504.000.
- Smith, Robert J., 4,652,032, Cl. 293-120.000.

Borg-Warner Corporation: *See—*
- Atkinson, Robert W.; and Fogelberg, Mark J., 4,649,771, Cl. 74-781.00R.
- Bateman, Paul M.; and Warner, John C., 4,645,479, Cl. 474-242.000
- Boster, Clark S., 4,688,990, Cl. 415-170.00A.
- Dockus, Kostas F.; and Zambrow, John L., 4,701,127, C 432-242.000.
- Durum, Metin M., 4,683,427, Cl. 324-207.000.
- Ferris, Ernest A., 4,709,795, Cl. 192-106.00F.
- Fildes, John M.; and Krueger, Robert H., 4,694,686, Cl. 73-104.000
- Fogelberg, Mark J., 4,679,663, Cl. 188-82.100.

Fox, Clarence D., 4,715,396, Cl. 137-82.000.

Gary, James R., 4,639,665, Cl. 324-117.00H.

Habel, Paul A., Jr.; and Kulczycki, Elaine S., 4,679,678, Cl. 192-106.200.

Haley, William J., 4,712,453, Cl. 74-866.000.

Kelly, Robert R., 4,652,854, Cl. 340-60.000.

Kelly, Robert R., 4,663,608, Cl. 340-60.000.

Kelly, Robert R., 4,706,063, Cl. 340-60.000.

Lech, Thaddeus, Jr., 4,643,287, Cl. 192-106.200.

Mannino, Anthony, Jr., 4,674,616, Cl. 192-107.00R.

Marsi, Joseph A., 4,648,605, Cl. 277-89.000.

McColl, John W., 4,699,259, Cl. 192-70.120.

Mulders, Johannes A., 4,684,318, Cl. 415-113.000.

Novak, Gary J., 4,692,130, Cl. 474-201.000.

Patun, Ronald J.; and Tijunelis, Donatas, 4,685,867, Cl. 417-367.000.

Rule, Robert D.; Skaggs, Bruce A.; and King, Gerald E., 4,637,504, Cl. 192-87.170.

Sproul, William D.; and Nibert, Roger K., 4,670,172, Cl. 252-49.300.

Sturges, Fred D.; and Spokas, Romas B., 4,674,609, Cl. 192-0.033.

Venema, Harry J., 4,637,621, Cl. 200-6.00R.

rg-Warner Industrial Products, Inc.: *See—*

Miller, Alan L.; and Kozlowski, James L., 4,691,276, Cl. 364-148.000.

Salant, Richard F.; Key, William E.; and Kay, Peter L., 4,643,437, Cl. 277-28.000.

Wentworth, Robert S., 4,653,980, Cl. 415-173.00R.

Wentworth, Robert S., 4,703,939, Cl. 277-88.000.

rgen, James C.: *See—*

Brough, William R.; and Borgen, James C., 4,638,440, Cl. 364-475.000.

rger, Heinz J.: *See—*

Birk, Josef; Baisch, Friedhelm; and Borger, Heinz J., 4,691,695, Cl. 128-38.000.

rgersen, Kjell, to AB Volvo Penta. Trim indicator for boats with utboard propeller drive units. 4,652,878, 3-24-87, Cl. 340-984.000.

rges, Anthony A. Prefabricated building panels and system. 642,963, 2-17-87, Cl. 52-584.000.

rges, Anthony A. Prefabricated building system. 4,655,011, 4-7-87, Cl. 52-79.100.

rges, Michael. Propulsion device for swimmers and divers. 4,700,654, 0-20-87, Cl. 114-338.000.

rgeson, Frank A.: *See—*

Hockert, Eric N.; Orensteen, Bruce D.; Bradshaw, Thomas L.; and Borgeson, Frank A., 4,634,220, Cl. 350-167.000.

rghard, William S.; Huang, Tracy J.; McCullen, Sharon B.; Schoen-agel, Hans J.; Tsao, Ying-Yen P.; and Wong, Stephen S., to Mobil il Corporation. Redispersion of agglomerated noble metals on eolite catalysts. 4,657,874, 4-14-87, Cl. 502-35.000.

rghese, Camillo: *See—*

Antonini, Bruno; Borghese, Camillo; D'Amico, Arnaldo; DeGasperis, Paolo; Paoletti, Antonio; Paroli, Paolo; Petrocco, Giovanni; Tucciarone, Aldo; and Scarinci, Fernando, 4,640,629, Cl. 374-178.000.

ghi, Angelo: *See—*

Malabarba, Adriano; Strazzolini, Paolo; Borghi, Angelo; Cavalleri, Bruno; and Coronelli, Carolina, 4,645,827, Cl. 530-322.000.

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galli, Ronald R., to Electric Power Research Institute, Inc. Stirred icroreactor. 4,702,888, 10-27-87, Cl. 422-50.000.

gman, Bradley N.; Cramer, Jerry W.; and Dossey, Don E., to unkist Growers, Inc. Vacuum manifold with quick connect-disnect latch assembly. 4,712,818, 12-15-87, Cl. 294-64.100.

gmann, Michael, to Robert Krups Stiftung & Co. KG. Apparatus r brewing espresso coffee. 4,644,856, 2-24-87, Cl. 99-295.000.

gmann, Robert E.: *See—*

Monteith, Robert C.; and Borgmann, Robert E., 4,695,701, Cl. 219-121.0LV.

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Bortolin, Bruno; and Borgonovo, Sergio, 4,690,496, Cl. 350-96.210.

gstroem, Leonard: *See—*

Inge, Claes; Lagerstedt, Torgny; Borgstroem, Leonard; Carlsson, Claes-Goeran; Naebo, Sven-Olof; Moberg, Hans; and Franzen, Peter, 4,701,158, Cl. 494-74.000.

ng, Glenn E., Jr. Bidet. 4,642,820, 2-17-87, Cl. 4-420.400.

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Borisoff, David J.; and Borisoff, Boris, 4,643,069, Cl. 84-306.000.

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esson, Tore L., to AB Volvo. Axially engaging twin plate friction tch with adjustment means. 4,640,399, 2-3-87, Cl. 192-70.250.

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Danko, Oliver L.; Bork, Carl R., Jr.; Steiss, William C.; and Levengood, Donald A., 4,634,099, Cl. 251-335.300.

Danko, Oliver L.; and Bork, Carl R., Jr., 4,687,017, Cl. 137-315.000.

Kolenc, Terrence J.; Bork, Carl R., Jr.; Steiss, William C.; Shufflebarger, Earl D.; and Tobbe, William P., 4,684,106, Cl. 251-335.200.

Bork, Edward A.: *See—*

Bauer, Theodore J.; Herke, Donald P.; Bork, Edward A.; and Lawson, William E., 4,680,442, Cl. 219-121.0LG.

Bork, Jonathan: *See—*

Bodine, John H.; Bork, Jonathan; Alford, Richard M.; Wright, James H.; and Thomsen, Leon A., 4,646,239, Cl. 364-421.000.

Borkan, Lionel: *See—*

Cohen, Jonathan M.; Berry, Ira R.; and Borkan, Lionel, 4,708,834, Cl. 264-4.300.

Borkowicz, Jerzy, to C-I-L Inc. Digital display ohmmeter. 4,636,715, 1-13-87, Cl. 324-62.000.

Borkowski, Michael T.; Laighton, David G.; and Altschul, Barry, to Raytheon Company. Microwave transistor package. 4,649,416, 3-10-87, Cl. 357-74.000.

Borland, James E.: *See—*

Smith, Kim R.; Johannessen, Raymond O.; and Borland, James E., 4,659,565, Cl. 424-70.000.

Borland, William, to Engelhard Corporation. Ceramic multilayer electrical capacitors. 4,663,189, 5-5-87, Cl. 427-79.000.

Borlinghaus, Hans J., to General Motors Corporation. Low profile seat adjuster with lift plate stabilizer. 4,664,351, 5-12-87, Cl. 248-396.000.

Bormioli, Giorgio. High pressure pipe union designed to disengage automatically under severe pulling stress. 4,652,016, 3-24-87, Cl. 285-2.000.

Born, Gerhard, to Seitz Enzinger Noll Maschinenbau Aktiengesellschaft. Arrangement for converting a wide stream of bottles into a single-track stream of bottles. 4,653,629, 3-31-87, Cl. 198-452.000.

Born, Gerhard; and Kaiser, Klaus, to Seitz Enzinger Noll Maschinenbau Aktiengesellschaft. Arrangement for converting a multi-track stream of bottles into a single-track stream of bottles. 4,708,234, 11-24-87, Cl. 198-453.000.

Born, Maurice; Parc, Guy; Briquet, Lucienne; and Paquer, Daniel, to Institut Francais du Petrole. Method for the preparation of olefin polysulfides, the products obtained and their utilization as lubricant additives. 4,645,610, 2-24-87, Cl. 252-45.000.

Born, Peter. Apparatus for wrapping stacked goods. 4,693,060, 9-15-87, Cl. 53-588.000.

Born, Richard C.: *See—*

Counter, Louis F.; Born, Richard C.; Walters, LeRoy M.; Ziese, Lowell B.; and Searing, Lawrence G., 4,714,917, Cl. 340-679.000.

Bornancini, Jose C. M., to Forjas Taurus S/A. Aiming system adapted for use in competition revolvers enabling varied and broad adjustment. 4,651,432, 3-24-87, Cl. 33-233.000.

Bornat, Alan, to Imperial Chemical Industries PLC; and University of Liverpool. Production of electrostatically spun products. 4,689,186, 8-25-87, Cl. 264-6.000.

Bornefeld, Klaus: *See—*

Bisping, Bernhard; and Bornefeld, Klaus, 4,638,738, Cl. 102-516.000.

Borneman, Paul R.: *See—*

Aggen, George; Borneman, Paul R.; and Washko, Stephen D., 4,661,169, Cl. 148-2.000.

Borner, Helmut: *See—*

Haffer, Gregor; Borner, Helmut; and Huth, Andreas, 4,644,062, Cl. 546-85.000.

Borner, Manfred; Trommer, Gert; and Muller, Reinhard, to Siemens Aktiengesellschaft. Photodiode comprising a resonator structure for increasing absorption. 4,665,421, 5-12-87, Cl. 357-30.000.

Bornhorst, James M., to Vari-Lite, Inc. Ventilation system for stage light instrument. 4,701,833, 10-20-87, Cl. 362-299.000.

Bornhorst, James M., to Vari-Lite, Inc. Lens carrier. 4,709,311, 11-24-87, Cl. 362-277.000.

Borning, Jeffrey M.: *See—*

Breske, Carl D.; and Borning, Jeffrey M., 4,637,542, Cl. 228-180.100.

Bornkast, Horst; and Kawczynski, Edward J., to American Satellite Company. Earth station antenna shield. 4,651,160, 3-17-87, Cl. 343-719.000.

Bornstein, Leopold F., deceased (by Bornstein, Marcia G., Executrix); and Fillingame, Gary P., to Georgia-Pacific Resins, Inc. Melamine-modified phenolic type resin for continuous lamination. 4,661,412, 4-28-87, Cl. 428-426.000.

Bornstein, Marcia G., Executrix: *See—*

Bornstein, Leopold F., deceased; and Fillingame, Gary P., 4,661,412, Cl. 428-426.000.

Boroda, Cyril: *See—*

Leslie, Stewart T.; Rhodes, Alan; Boroda, Cyril; and Halpern, Alfred, 4,654,209, Cl. 424-80.000.

Borodinsky, Lester: *See—*

King, Robert B.; and Borodinsky, Lester, 4,704,449, Cl. 528-392.000.

Borodovsky, Yan; Thomas, Mammen; and Ma, Danny, to Advanced Micro Devices, Inc. Integrated circuit structure having conductive, protective layer for multilayer metallization to permit reworking. 4,672,420, 6-9-87, Cl. 357-71.000.

Borodulin, Anatoly F.: *See—*

Gendelman, Mikhail A.; Borodulin, Anatoly F.; Golubeva, Diana F.; and Bychkov, Sergei V., 4,694,867, Cl. 139-192.000.

Borodulin, German; Persidsky, Maxim; and Shkolnik, Alexander. Expandable urethral bougies. 4,705,029, 11-10-87, Cl. 128-43.000.

Boron, Joseph J., to Midwest Instrument Co., Inc. Molten metal sampler with sand cast mold part. 4,699,014, 10-13-87, Cl. 73-864.570.

Borona, Russell T.: *See—*

Murphy, Glenn L.; Borona, Russell T.; and Gelzheiser, Francis L., 4,713,640, Cl. 335-194.000.

Boros, Imre; Venetianer, Pal, and Posfai, Gyorgy, to Richter Gedeon Vegyeszeti Gyar Rt. High copy-number plasmid vectors, production and use thereof. 4,703,012, 10-27-87, Cl. 435-320.000.

Boross, Laszlo; Dala nee Reznecki, Erzsebet, Kiss nee Deer, Aranka, Szajani, Bela; and Tetzli, Arpad, to Reanal Finomvegyszergyar. Isolation of carboxypeptidase B enzyme. 4,650,762, 3-17-87, Cl. 435-180.000.

Boross, Laszlo: *See—*

Antal nee Magyar, Zsuzsanna; Beller, Eva; Boross, Laszlo; Daroczi, Ivan; Kalman, Miklos; Suto, Imre; and Szajani, Bela, 4,670,390, Cl. 435-180.000.

Borovicka, Antonin: *See—*

Cerny, Antonin; Krepelka, Jiri; Rezabek, Karel; Fruhaufova, Maria; Pesak, Milan; Sevcik, Bohumil; Kral, Josef; Borovicka, Antonin; Bilek, Petr; Picmausova, Dagmar; Stuchlik, Josef, Picha, Josef; and Strakova, Jana, 4,692,452, Cl. 514-288.000.

Borow, Henry. Dust separator. 4,639,260, 1-27-87, Cl. 55-302.000.

Borowiec, Joseph C.: *See—*

Roberts, Victor D.; and Borowiec, Joseph C., 4,677,346, Cl. 315-226.000.

Roberts, Victor D.; and Borowiec, Joseph C., 4,714,912, Cl. 340-310.00R.

Borowski, Victor J.: *See—*

Hanisko, John C. P.; and Borowski, Victor J., 4,672,225, Cl. 307-10.0AT.

Borowsky, Richard. Method of farbricating an optically graded light occluding gel. 4,707,236, 11-17-87, Cl. 204-182.000.

Borras, Jaime A.; Mitchell, Timothy A.; and Ramos, Ozzie F., to Motorola, Inc. Alphanumeric entry system having an electronic lock feature. 4,670,74, 6-2-87, Cl. 340-825.560.

Borras, Jaime A.: *See—*

Comroe, Richard A.; Borras, Jaime A.; Browand, Wayne H.; Ramos, Ozzie F.; Kozlowski, Ted A.; Mitchell, Timothy A.; and Ekl, Randy L., 4,667,191, Cl. 340-825.500.

Borras, Jaime Andres; and Sasuta, Michael D., to Motorola, Inc. Trunked communication system true priority channel scan. 4,716,407, 12-29-87, Cl. 340-825.040.

Borras, John. Auto wheel snow scraper. 4,665,636, 5-19-87, Cl. 37-234.000.

Borrebaeck, Carl: *See—*

Schroder, Ulf; and Borrebaeck, Carl, 4,687,748, Cl. 436-526.000.

Borrelli, Nicholas F.; and Morse, David L., to Corning Glass Works. Small anamorphic lenses and method. 4,684,222, 8-4-87, Cl. 350-420.000.

Borrelli, Nicholas F.; Hares, George B.; Smith, Dennis W.; and Wedding, Brent M., to Corning Glass Works. Colored photochromic glasses and method. 4,710,430, 12-1-87, Cl. 428-432.000.

Borrello, Sebastian R., to Texas Instruments Incorporated. High efficiency MIS detector. 4,654,686, 3-31-87, Cl. 357-30.000.

Borresen, Peter A., to A/S Modulex. Method of printing a pattern on a surface receptive to sublimation printing. 4,692,198, 9-8-87, Cl. 156-235.000.

Borrett, Ronald D.; and Zylstra, Henry J., to Square D Company. High level magnetic trip circuit. 4,652,965, 3-24-87, Cl. 361-94.000.

Borrmeister, Bodo: *See—*

Dautzenberg, Horst; Loth, Fritz; Borrmeister, Bodo; Bertram, Dieter; Lettau, Herbert; Stamberg, Jiri; and Peska, Jan, 4,664,105, Cl. 128-156.000.

Borrod, Guy; and Lacroix, Guy, to Rhone-Poulenc Agrochimie. Herbicides of the type N-(phosphonomethylglycyl)sulfonylamines process for forming N-(phosphonomethylglycyl) sulfonylamides. 4,675,429, 6-23-87, Cl. 558-145.000.

Borrod, Guy: *See—*

Chene, Alain; and Borrod, Guy, 4,690,708, Cl. 71-94.000.

Borroff, Michael J.; and Willstead, Donald A., to Johnson & Johnson. Thermoplastic composition. 4,661,535, 4-28-87, Cl. 523-105.000.

Borromeo, Lucio, to 3 T S.p.A. Handlebar support with storage compartment. 4,676,120, 6-30-87, Cl. 74-551.100.

Borromeo, Lucio, to 3 T S.p.A. Device for fixing the saddle of a bicycle to a saddle pillar and for adjusting the inclination of the saddle. 4,693,627, 9-15-87, Cl. 403-24.000.

Borroni, Andrea: *See—*

Marin, Carlo; Lanfranconi, Gianmario; and Borroni, Andrea, 4,698,009, Cl. 425-196.000.

Borror, Alan L.; Ellis, Ernest W.; Faramarzpour, Faramarz; MacKenzie, Hugh R.; and McGowan, Donald A., to Polaroid Corporation. Optical storage identification card and read/write system. 4,663,518, 5-5-87, Cl. 235-487.000.

Borroughs Corporation: *See—*

Gabuzda, Paul G., 4,682,651, Cl. 165-80.300.

Bors, Hans; Egger, Peter; Gotz, Albert; and Schwemmer, Martin, to Triatex International AG. Process for applying controlled amounts of liquors to a receptive material web. 4,672,705, 6-16-87, Cl. 8-151.000.

Borsa, Massimiliano; Tonon, Giancarlo; and Malandrino, Salvatore, to Dompe' Farmaceutici S.p.A. Levo and dextro dropropizine having antitussive activity. 4,699,911, 10-13-87, Cl. 514-255.000.

Borsani, Fulgenzio, to TECNO S.p.A. Mobili e forniture per arredamento. Adjustable chair. 4,650,248, 3-17-87, Cl. 297-300.000.

Borsanyi, Alexander S., to American Hospital Supply Corporation. Pressure-regulating peristaltic pump. 4,671,792, 6-9-87, Cl. 604-153.000.

Borsari, Allen S.; Brym, Stanley J.; Markure, Laura A.; and Arpino, Ronald G., to Hamilton Beach Inc. Electric iron having safety cutoff switch and temperature indicator. 4,692,589, 9-8-87, Cl. 219-251.000.

Borsenberger, Paul M., to Eastman Kodak Company. Spectral sensitization of amorphous silicon photoconductive elements with phthalocyanine and arylamine layers. 4,711,831, 12-8-87, Cl. 430-95.000.

Borseth, Edward M.: *See—*

Giancola, Vincent; and Borseth, Edward M., 4,645,994, Cl. 318-649.000.

Borsh, Richard J., to Carlon Company, The. Adapter fitting for connecting flexible conduit to electrical outlet boxes. 4,711,974, 12-8-87, •Cl. 174-65.00R.

Borsig GmbH: *See—*

Kehrer, Wolfgang, 4,697,550, Cl. 122-34.000.

Kehrer, Wolfgang, 4,700,773, Cl. 165-134.100.

Borsodi Vegyi Kombinat: *See—*

Gorog nee Privitzer, Katalin; Bodnar, Laszlo; Dudar, Erzsebet; Kocsis nee Bagi, Maria; Gaal, Sandor; Tasnadi, Marta; Egyhazi nee Csizmadia, Eva; Varga, Valeria M.; Kajati, Istvan; Kis, Gyorgy; Molnar, Janos; Toth, Bertalan; Cserhati nee Botka, Ilona; Kaptas, Tibor; and Csete, Sandor, 4,661,477, Cl. 514-76.000.

Gorog nee Privitzer, Katalin; Bodnar, Laszlo; Dudar, Erzsebet; Kocsis nee Bagi, Maria; Gaal, Sandor; Tasnadi, Marta; Egyhazi nee Csizmadia, Eva; Varga, Valeria M.; Kajati, Istvan; Kis, Gyorgy; Molnar, Janos; Toth, Bertalan; Cserhati nee Botka, Ilona; Kaptas, Tibor; and Csete, Sandor, 4,675,431, Cl. 558-218.000.

Borsos nee Safranek, Iren: *See—*

Timar, Tibor; Zsupan, Kalman; Repasi, Janos; Borsos nee Safranek, Iren; Kiss, Istvan; Fodor, Amdras; and Maroy, Peter, 4,716,238, Cl. 549-408.000.

Borst, Gaylord M.: *See—*

Friedle, Dennis J.; Kolb, Richard P.; and Borst, Gaylord M., 4,681,056, Cl. 114-146.000.

Borst, John D.: *See—*

Po ser, Thomas D.; Avery, Randall N.; Bankoske, John W.; Borst, John D.; Kimblin, Clive W.; Maxwell, Albert H.; McElroy, David W.; Peterson, Charles A.; Rostron, Joseph R.; Smith, David R.; South, William H.; and Thomas, Michael W., 4,654,806, Cl. 364-551.000.

Borst, Paul H.; and Johnson, Bruce S., to Harsco Corporation. Grouping head hoist. 4,664,434, 5-12-87, Cl. 294-87.100.

Borst, Willi; and Pfisterer, Reinhard, to USM Corporation. Inlet sleeve for hot-melt dispensers. 4,706,852, 11-17-87, Cl. 222-146.200.

Borsuk, Alvin, to Oscar Mayer Foods Corporation. Pass-through proteinaceous patty making apparatus. 4,709,449, 12-1-87, Cl. 17-32.000.

Borsuk, Leslie M.; and Woith, Blake F., to ITT Corporation. Optical fiber alignment and retention device. 4,666,238, 5-19-87, Cl. 350-96.200.

Bortfeld, Harald; Danne, Lutz; Lehrmann, Joachim; and Klatt, Alfred, to WABCO Westinghouse Fahrzeugbremsen GmbH. Combination gear-selector, sensor device. 4,660,430, 4-28-87, Cl. 74-335.000.

Bortfeld, Manfred: *See—*

Wieland, Dieter; Bortfeld, Manfred; and Gernhard, Walter, 4,662,072, Cl. 30-382.000.

Bortner, Earl D.; Jenkinson, George H.; and Paredes, Edward A., to Ericsson, Inc. Electrical cable with reinforcement. 4,675,475, 6-23-87, Cl. 174-113.00R.

Bortolin, Bruno; and Borgonovo, Sergio, to Societa' Cavi Pirelli S.p.A. Optical fiber joint with reinforcing filament and method of making such joint. 4,690,496, 9-1-87, Cl. 350-96.210.

Bortolini, Edward J.; Helton, John S.; and Kohs, Dwight W., to AT&T Information Systems Inc. Glitchless clock signal control circuit for a duplicated system. 4,635,249, 1-6-87, Cl. 370-58.000.

Borton, David N.: *See—*

Rogers, William E.; and Borton, David N., 4,682,865, Cl. 350-607.000.

Borve, Kjetil: *See—*

Dyvik, Frostein; and Borve, Kjetil, 4,640,751, Cl. 204-105.00R.

Borys, Nelson F.: *See—*

Kickle, Hunter L.; Urfer, Allen D.; Cahn, Arno, Borys, Nelson F.; and Verboom, Gilles M. L., 4,675,127, Cl. 252-174.170.

Borys, Ryszard. Corner construction for prefabricated spacer for multiple-glazed windows. 4,651,482, 3-24-87, Cl. 52-172.000.

Borys, Ryszard. Separator for insulated window glass. 4,698,891, 10-13-87, Cl. 29-417.000.

Borzoni, John M., to Littelfuse, Inc. Plug-in fuse assembly with specially configured fuse link. 4,661,793, 4-28-87, Cl. 337-260.000.

Borzym, Alexander. Elliptical shearing apparatus. 4,635,514, 1-13-87, Cl. 83-196.000.

Borzym, John J., to Alpha Industries, Inc. Indexible cross-cut blade and blade holder for tube cut-off machines. 4,646,601, 3-3-87, Cl. 83-385.000.

Bos, Frans, to AB Volvo. Door hinge for motor vehicles or the like. 4,672,714, 6-16-87, Cl. 16-262.000.

Bos, Jacobus J.; Cuperus, Rinze; and Wielinga, Rudolf, to Gist-Brocades N.V. Preparation of 6-amino-penicillanic acid-1,1-dioxide. 4,695,628, 9-22-87, Cl. 540-312.000.

Bos, Johannes: *See—*

Durl, Bernd; Bos, Johannes; Ong, Sienling; Raffel, Peter; and Brozat, Kurt, 4,680,033, Cl. 8-449.000.

Bos-Knox, Ltd.: *See—*

Simpson, George R., 4,704,707, Cl. 365-244.000.

Bos, Philip J., to Tektronix, Inc. High-speed electro-optical light gate and field sequential full color display system incorporating same. 4,635,051, 1-6-87, Cl. 340-757.000.

Bos, Philip J.; and Prince, Dennis, to Tektronix, Inc. Method and apparatus for reducing optical cross talk in a liquid crystal optical switch. 4,652,087, 3-24-87, Cl. 350-332.000.

Bos, Sinnighe J.: *See—*

Duurland, Jozef M.; Bos, Sinnighe J.; and Kreeft, Hendrik K., 4,681,280, Cl. 242-199.000.

Bos, Willem: *See—*

Bourne, Richard C.; Fanciullo, Martin; and Bos, Willem, 4,693,089, Cl. 62-79.000.

Bosak, Alan A.: *See—*

Lachman, John C.; Moorman, Lewis B.; and Bosak, Alan A., 4,633,918, Cl. 140-71.00R.

Bosc, Philippe: *See—*

Berrod, Gerard; Maurer, Robert; Brun, Jean-Louis; Bosc, Philippe; and Allemand, Pierre, 4,665,985, Cl. 166-281.000.

Bosch, Franz-Ulrich, Muller, Willi; Schacht, Hans; and Straubel, Max, to Robert Bosch GmbH. Filter for diesel fuel. 4,683,055, 7-28-87, Cl. 210-120.000.

Bosch, Sieds, to U.S. Philips Corporation. Apparatus provided with a housing in which an electric motor is accommodated. 4,649,643, 3-17-87, Cl. 30-43.000.

Bosch, Sieds, to U.S. Philips Corporation. Shaving apparatus. 4,663,842, 5-12-87, Cl. 30-43.600.

Bosch-Siemens Hausergerate GmbH: *See—*

Kruger, Manfred, 4,667,853, Cl. 222-80.000.

Bosch-Siemens Hausgeraete GmbH: *See—*

Eichler, Walter; Farber, Karlheinz; and Fischer, Elisabeth, 4,687,909, Cl. 219-502.000.

Bosch-Siemens Hausgerate GmbH: *See—*

Aschberger, Matthias; Farber, Karlheinz; and Deininger, Anton, 4,646,797, Cl. 141-375.000.

Aschberger, Matthias; Farber, Karlheinz; and Deininger, Anton, 4,655,050, Cl. 62-200.000.

Aschberger, Matthias; Farber, Karlheinz; and Deininger, Anton, 4,656,933, Cl. 99-323.100.

Aschberger, Matthias; Farber, Karlheinz; Wolf, Ulrich; and Deininger, Anton, 4,665,809, Cl. 99-323.100.

Farber, Karlheinz, 4,698,916, Cl. 34-57.00A.

Husslein, Julius, 4,645,911, Cl. 219-464.000.

Kruger, Manfred; and Mucha, Lawrence S., 4,709,835, Cl. 222-87.000.

Bosch, Walter: *See—*

Arnold, Herbert; Bosch, Walter; Horbelt, Michael; Maisch, Wolfgang; Nusser, Hermann; Peters, Klaus-Jurgen; Werner, Peter; and Willke, Clemens, 4,693,111, Cl. 73-118.100.

Boscher, Daniel: *See—*

Le Noane, Georges; Boscher, Daniel; and Lemarer, Rene , 4,666,541, Cl. 156-158.000.

Boschert Inc.: *See—*

Forge, Charles O., 4,638,420, Cl. 363-132.000.

Small, Kenneth T., 4,694,389, Cl. 363-132.000.

Boschma, Klaas M.: *See—*

Chung, Kah-Seng; and Boschma, Klaas M., 4,672,634, Cl. 375-62.000.

Boschman, Everardus H., to Boschman Kleinpenning Beheer B.V. Apparatus for encapsulating electronic components in plastic material. 4,653,993, 3-31-87, Cl. 425-116.000.

Boschman Kleinpenning Beheer B.V.: *See—*

Boschman, Everardus H., 4,653,993, Cl. 425-116.000.

Boschung, Marcel: *See—*

Gisler, Hans; and Boschung, Marcel, 4,685,228, Cl. 37-197.000.

Bosco, Angelo; and Magnaghi, Edgardo, to Telefunken Robetecnica S.R.L. Pneumatic tape tensioning device for a cassette loading machine. 4,714,212, 12-22-87, Cl. 242-182.000.

Bosco, Fulvio: *See—*

Astegiano, Luciano; Bertoglio, Ottavio; Bosco, Fulvio; de Bosio, Alfredo; Franco, Dario; Lampiano, Piero; Melle, Antonio; and Rosboch, Luciano, 4,706,270, Cl. 379-2.000.

Boscoe, John J.; and Gill, Peter L., to Checkpoint Systems, Inc. Article surveillance using reactivatable resonant tags. 4,673,923, 6-16-87, Cl. 340-572.000.

Boscolo, Antonio, to TETRA DEV-CO Consorzio di Studio e Ricerca Industriale. Container liquid level sensing utilizing a filling tube. 4,675,660, 6-23-87, Cl. 340-612.000.

Boscolo, Antonio; and Stibelli, Sergio, to Zeltron Istituto Zanussi per l'Elettronica S.p.A. Automatic machine for washing articles in a bath containing surfactant substances. 4,703,633, 11-3-87, Cl. 68-12.00R.

Bose, Bella; and Lin, Der J., to Bose, Bella. Method and system for detecting a predetermined number of unidirectional errors. 4,691,319, 9-1-87, Cl. 371-54.000.

Bose, Bimal K., to General Electric Company. Control system for switched reluctance motor. 4,707,650, 11-17-87, Cl. 318-685.000.

Bose, Bimal K.; and Szczesny, Paul M., to General Electric Company. Start-up control for switched reluctance motor. 4,713,594, 12-15-87, Cl. 318-685.000.

Bose, Bimal K., to General Electric Company. Induction motor drive system. 4,713,596, 12-15-87, Cl. 318-802.000.

Bose Corporation: *See—*

Sapiejewski, Roman, 4,644,581, Cl. 381-74.000.

Yamamoto, Shuji, 4,650,031, Cl. 181-156.000.

Bose, Debasis; Datta, Amitava; DeCristofaro, Nicholas J.; and Henschel, Claude, to Allied Corporation. Homogeneous, ductile cobalt based hardfacing foils. 4,650,725, 3-17-87, Cl. 428-668.000.

Bose, Debasis; and Liebermann, Howard H., to Allied Corporation. Storage life of Pb-In-Ag solder foil by Sn addition. 4,654,275, 3-31-87, Cl. 428-606.000.

Bose, Debasis; and Freilich, Alfred, to Allied Corporation. Nickel high-chromium base brazing filler metal for high temperature applications. 4,658,537, 4-21-87, Cl. 228-263.150.

Bose, Debasis; Datta, Amitava; DeCristofaro, Nicholas J.; and Henschel, Claude, to Allied Corporation. Method of facing using homogeneous, ductile nickel based hardfacing foils. 4,701,356, 10-20-87, Cl. 427-423.000.

Bose, Debasis; Datta, Amitava; DeCristofaro, Nicholas J.; and Henschel, Claude, to Allied Corporation. Homogeneous, ductile cobalt based hardfacing foils. 4,701,357, 10-20-87, Cl. 427-423.000.

Bose, Debasis; and Freilich, Alfred, to Allied Corporation. Method of making a nickle high-chromium base brazing filler metal. 4,712,603, 12-15-87, Cl. 164-463.000.

Bose, Tapan K.: *See—*

Achtermann, Jurgen H.; Bose, Tapan K.; and St-Arnaud, Jean-Marie, 4,702,604, Cl. 356-361.000.

Boser, Otmar H., to North American Philips Corporation. Nondestructive testing of multilayer ceramic capacitors. 4,644,259, 2-17-87, Cl. 324-51.000.

Boser, Ronald J.; and Martin, Michael T., to Yoshida Kogyo K.K. Method of and apparatus for attaching fly strips to a slide fastener chain. 4,660,821, 4-28-87, Cl. 271-10.000.

Boser, Ronald J., to Yoshida Kogyo K. K. Apparatus for sewing zipper chain to elongated fabric pieces. 4,674,422, 6-23-87, Cl. 112-121.270.

Boser, Ronald J., to Yoshida Kogyo K. K. Method for sewing zipper chain to elongated fabric pieces. 4,714,038, 12-22-87, Cl. 112-265.200.

Boshagen, Horst; Stoltefuss, Jurgen; Berschauer, Friedrich; de Jong, Anno; and Scheer, Martin, to Bayer Aktiengesellschaft. Monosilylated aminophenylethylamine derivatives, a process for their preparation, and their use for promoting growth. 4,670,423, 6-2-87, Cl. 514-63.000.

Boshagen, Horst: *See—*

Hassel, Tillmann; Muller, Hanns P.; and Boshagen, Horst, 4,659,844, Cl. 549-424.000.

Boshold, Raymond F., to Wean Industries, Inc. Container guidance system for extrusion press. 4,694,673, 9-22-87, Cl. 72-272.000.

Bosich, Joseph F. Process of making material for and constructing a road. 4,668,121, 5-26-87, Cl. 404-72.000.

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Bosler, D. Mark: *See—*

Schoenleber, Donald W.; and Bosler, D. Mark, 4,657,612, Cl. 156-227.000.

Bosley, Bruce C.: *See—*

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Cronkhite, Paul W.; Bosley, Bruce C.; Jones, James H.; and Patel, Asit G., 4,680,893, Cl. 51-5.00R.

Bosley, Robert W.; Kirshman, Samson; LeMay, Dan B.; and Renken, Wayne G., to Innovus. Electromagnetic valve with permanent magnet armature. 4,690,371, 9-1-87, Cl. 251-65.000.

Bosley, Sydney S. Blade fuse assembly with indicator. 4,712,081, 12-8-87, Cl. 337-266.000.

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Bosnjakovic, Vladimir B. Scintillation crystal device and scintillation camera incorporating such device. 4,700,074, 10-13-87, Cl. 250-363.00S.

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Chan, Albert; Fitzpatrick, Mark; Goddard, Don; Bosnyak, Robert J.; and Tsui, Cyrus, 4,701,695, Cl. 324-510.000.

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Salvador, Jean-Louis; and Bosquain, Denis, 4,700,022, Cl. 178-18.000.

Bosque, Raul A. Spinner ratchet wrench. 4,699,028, 10-13-87, Cl. 81-57.220.

Bosquee, Michel: *See—*

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Bosquet, Herman; and Ulens, Stanislas F., to N.V. Verenigde Energiebedrijven Van Het Scheldeland Mechelsesteenweg. Process for repairing the tubes of a steam generator. 4,696,723, 9-29-87, Cl. 204-16.000.

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Patrick, James W.; Heinemann, Stephen F.; Boss, Barbara D.; and Cowan, W. Maxwell, 4,652,629, Cl. 530-326.000.

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Boss, David W.; and Dubetsky, Derry J., to International Business Machines Corporation. Process for minimizing distortion in multilayer ceramic substrates and the intermediate unsintered green ceramic substrate produced thereby. 4,677,254, 6-30-87, Cl. 174-68.500.

Boss, Heinz; and Weber, Walter, to Grapha-Holding AG. Apparatus for temporary storage of printed products between successive processing machines of a production line. 4,684,118, 8-4-87, Cl. 270-58.000.

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Bossand, Bernard; Eppe, Jacques; Faure, Alain; and Leygue, Gilles, to Elf France. Organic amelioratotrs protected by a hydrocarbon structure allowing the improvements of soil properties. 4,684,391, 8-4-87, Cl. 71-24.000.

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Bossanszky, Ferenc: *See—*

Szody, Peter; Dunajcsik, Peter; Villanyi, Miklos; Bossanszky, Ferenc; Libor, Endre; and Kiss, Ferenc, 4,696,643, Cl. 432-120.000.

Bossard, Jean-Paul: *See—*

Salinier, Guy; and Bossard, Jean-Paul, 4,645,973, Cl. 315-39.000.

Salinier, Guy; and Bossard, Jean-Paul, 4,652,723, Cl. 219-121.0PY.

Bossard, Peter R.; and Mucha, John A., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Detection of water entrapped in electronic components. 4,711,118, 12-8-87, Cl. 73-73.000.

Bossart, Erwin; and Hasler, Hans, to Benninger AG. Yarn tensioning device. 4,705,232, 11-10-87, Cl. 242-150.00R.

Bosse, Gene P., to Eaton Corporation. High speed redundancy processor. 4,639,915, 1-27-87, Cl. 371-10.000.

Bossek, Harald: *See—*

Osberghaus, Rainer; Brodalla, Dieter; Geissler, Roland; and Bossek, Harald, 4,661,170, Cl. 148-6.270.

Bossenmaier, Alban: *See—*

Baumann, Karl-Heinz; Schick, Gerald; Kassing, Lothar; Bossenmaier, Alban; and Brambilla, Luigi, 4,715,468, Cl. 180-271.000.

Bossert, Arthur J.: *See—*

Zajac, William V., Jr.; Kautz, Henry G.; Kautz, David J.; Bossert, Arthur J.; and Cohen, Sidney, 4,637,928, Cl. 423-659.000.

Bosshammer, Hubert: *See—*

Kauth, Hermann; Bosshammer, Hubert; Schmidt, Manfred; and Freitag, Dieter, 4,668,720, Cl. 524-86.000.

Bosshard, Ernst: *See—*

Liebl, Rudolf; and Bosshard, Ernst, 4,705,469, Cl. 425-117.000.

Bosshard, Hans: *See—*

Baumann, Marcus; Bosshard, Hans; and Greuter, Hans, 4,652,653, Cl. 548-171.000.

Bosshard, Werner; and Stauffacher, Werner, to Werkzeugmaschinenfabrik Oerlikon-Buhrle AG. Countercoil and recoil dampers for automatic firearms. 4,667,566, 5-26-87, Cl. 89-44.010.

Bosshard, Werner: *See—*

Hurlemann, Ernst; Bosshard, Werner; and Stauffacher, Werner, 4,676,017, Cl. 42-25.000.

Bossi, Furio; and Caldo, Cornelio, to Montedison, S.p.A. Electrically conductive polymer based on polyazomethine and process for preparing same from diketone and diamine. 4,656,240, 4-7-87, Cl. 528-229.000.

Bossler, Joseph. Core drill and method of removing a core therefrom. 4,657,445, 4-14-87, Cl. 408-1.00R.

Bosso, Alexander: *See—*

Krawczyk, Paul D.; and Bosso, Alexander, 4,650,340, Cl. 366-220.000.

Bossotto, Piero; and Brandino, Mario, to Comau S.p.A. Welding systems for motor vehicles bodies. 4,682,722, 7-28-87, Cl. 228-41.000.

Bossuet, Patrice; and Gautier, Francois, to Thomson-CSF. Electromagnetic wave spatial filter with circular polarization. 4,652,891, 3-24-87, Cl. 343-909.000.

Bost, Glenn E.: *See—*

Kimbrell, James E.; Boyd, Charles H.; Altman, David A.; Sherwood, Donald G.; and Bost, Glenn E., 4,659,539, Cl. 376-377.000.

Bost, Michel, to Aerospatiale Societe Nationale Industrielle. Helicopter rotor blade made from a multispar composite material with torsion compartments and a process for manufacturing same. 4,696,623, 9-29-87, Cl. 416-230.000.

Bostelman, Michael A., to Cummins Engine Company, Inc. Engine compression braking system for an internal combustion engine. 4,648,365, 3-10-87, Cl. 123-321.000.

Bostelmann, Rudolf: *See—*

Kageler, Peter; Bostelmann, Rudolf; and Buhrmester, Olaf, 4,710,066, Cl. 406-29.000.

Boster, Clark S., to Borg-Warner Corporation. Pump construction. 4,688,990, 8-25-87, Cl. 415-170.00A.

Bostic, Gerald D., Jr., administrator: *See—*

Bostic, Gerald D., Sr., deceased, 4,662,850, Cl. 441-123.000.

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Bostock, Philip G., to Ford Motor Company. Catalyst arrangement for the exhaust system of an internal combustion engine. 4,646,516, 3-3-87, Cl. 60-295.000.

Bostock, Stephen B.: *See—*

Baxter, Anthony G.; Bostock, Stephen B.; and Greenwood, David, 4,634,555, Cl. 540-126.000.

Baxter, Anthony G. W.; Bostock, Stephen B.; and Greenwood, David, 4,703,113, Cl. 534-796.000.

Baxter, Anthony G. W.; Bostock, Stephen B.; and Greenwood, David, 4,705,528, Cl. 8-641.000.

Boston Biomedical Research Institute: *See—*

Jacobson, Bernard, 4,710,462, Cl. 435-68.000.

Boston Digital Corporation: *See—*

Linn, Thomas D., 4,705,187, Cl. 220-333.000.

Boston, John T.; and Pacetti, Larry D., to Snap-on Tools Corporation. Molded clamp-type ammeter probe. 4,656,418, 4-7-87, Cl. 324-127.000.

Boston, Ronald P., to Fronda Limited. Process for producing carbonated beverages. 4,695,468, 9-22-87, Cl. 426-8.000.

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Flutti, Fulvio; and Ghezzi, Franco, 4,708,907, Cl. 425-352.000.

Boston University, Trustees of: *See—*

Catsimpoolas, Nicholas, 4,673,667, Cl. 514-25.000.

Catsimpoolas, Nicholas; and Goldsmith, Harry S., 4,699,788, Cl. 424-104.000.

Catsimpoolas, Nicholas; McCluer, Robert; Sinn, Robert S.; and Evans, James, 4,710,490, Cl. 514-25.000.

Chou, Ith-Nan, 4,701,406, Cl. 435-7.000.

Graham, Daniel J.; and Mushlin, Richard A., 4,645,340, Cl. 356-301.000.

Khader, Mahmoud M.; and Lichtin, Norman N., 4,703,030, Cl. 502-338.000.

Osband, Michal E.; and Cavagnaro, Joy A., 4,716,111, Cl. 435-68.000.

Powers, Whitney R.; and Sisun, Henry, 4,702,732, Cl. 604-20.000.

Ryser, Hugues J.; and Shen, Wei-Chiang, 4,701,521, Cl. 530-322.000.

Sengupta, Sisir K., 4,680,382, Cl. 530-317.000.

Boston, Vincent: *See—*

Francini, Joseph P.; Asbo, Einar L.; and Boston, Vincent, 4,701,601, Cl. 235-449.000.

Bostrom, Olle; and Gorling, Karl. Suction sintering method and apparatus therefor. 4,648,900, 3-10-87, Cl. 75-3.000.

Bostwick, Beverly D.: *See—*

Labes, Mortimer M.; and Bostwick, Beverly D., 4,657,349, Cl. 350-362.000.

Bostwick, Myron A., Jr.: *See—*

Van Nice, H. Lee; Bostwick, Myron A., Jr.; and Kongslie, Keith F., 4,713,520, Cl. 219-121.0LC.

Boswell, George A.; Mackin, William M.; and Thoolen, Martin J., to E.I. Du Pont de Nemours and Company. Azapropazone prevention of post-ischemic tissue damage. 4,668,676, 5-26-87, Cl. 514-243.000.

Bosworth, Michael A.; Adams, Richard L.; and Wheaton, Bruce, to MAC Equipment, Inc. Pulse cleaning system for dust filters. 4,655,799, 4-7-87, Cl. 55-273.000.

Bosworth, Michael R.: *See—*

Sare, Ian R.; Henderson, Ian D.; Heijkoop, Teunis; Bosworth, Michael R.; Aspin, Ronald E.; and Arnold, Brian K., 4,635,701, Cl. 164-102.000.

Bosworth, Robert T., to Du Pont de Nemours, E. I., and Company. Gas-liquid heat exchange process and apparatus. 4,643,244, 2-17-87, Cl. 165-1.000.

Botar, Sandor: *See—*

Szekely, Istvan; Botar, Sandor; Dolgos nee Kekesi, Krisztina; Bertok, Bela; Gajary, Antal; Szabolcsi, Tamas; Kovacs, Gabor; and Lovasz nee Gaspar, Marianna, 4,638,002, Cl. 514-212.000.

Boteler, William C., to Harvey Hubbell Incorporated. Flat conductor cable. 4,636,017, 1-13-87, Cl. 339-17.00F.

Boteler, William C.; Ehrenfels, Alfred L.; and Lutz, David L., to Harvey Hubbell Incorporated. Shielded connector. 4,674,807, 6-23-87, Cl. 439-106.000.

Boteler, William C.; and Ehrenfels, Alfred L., to Hubbell Incorporated. Overhead wiring system. 4,686,381, 8-11-87, Cl. 307-147.000.

Botez, Dan, to RCA Corporation. Phase-locked laser array. 4,692,925, 9-8-87, Cl. 372-46.000.

Botez, Dan: *See—*

Connolly, John C.; and Botez, Dan, 4,642,143, Cl. 148-171.000.

Botha, Theunis J.: *See—*

Prinsloo, Paul M.; Botha, Theunis J.; van Schalkwyk, Jacobus C. J.; and Smit, Nimrod J. J., 4,674,628, Cl. 206-38.100.

Bothe, Lothar; and Crass, Guenther, to Hoechst Aktiengesellschaft. Polyolefin film having improved mechanical properties. 4,698,261, 10-6-87, Cl. 428-204.000.

Bothe, Lothar: *See—*

Bonnke, Martin; and Bothe, Lothar, 4,649,171, Cl. 524-381.000.

Bonnke, Martin; and Bothe, Lothar, 4,670,499, Cl. 524-427.000.

Crass, Guenther; Bothe, Lothar; and Schloegl, Gunter, 4,692,837, Cl. 361-313.000.

Crass, Gunther; Janocha, Siegfried; and Bothe, Lothar, 4,652,489, Cl. 428-337.000.

Janocha, Siegfried; Crass, Guenther; Bothe, Lothar; and Schloegl, Gunter, 4,663,219, Cl. 428-213.000.

Bothner, Jakob, to Zinser Textilmaschinen GmbH. Roving coiler. 4,646,390, 3-3-87, Cl. 19-159.00R.

Bothner, Rose M.; and Butler, James L., to Eastman Kodak Company. Electrostatographic apparatus having a transfer drum. 4,712.906, 12-15-87, Cl. 355-3.0TR.

Bothun, Eugene L.; and Hine, Brent S., to Sit-N-Sip, Inc. Self-bleeding bung dispenser valve. 4,687,122, 8-18-87, Cl. 222-183.000.

Bothwell, Peter W. Motorcycle with buffers to protect user's legs. 4,650,204, 3-17-87, Cl. 280-289.00G.

Bothwell, Peter W. Internal combustion engine and cylinder head therefor. 4,697,554, 10-6-87, Cl. 123-90.220.

Botimer, Donald W. Tool coupling apparatus. 4,674,172, 6-23-87, Cl. 29-568.000.

Botka, Julius, to Hewlett-Packard Company. Adjustable length slotless female contact for connectors. 4,648,683, 3-10-87, Cl. 339-177.00R.

Botnick, Irun H. Faucet manifold. 4,671,316, 6-9-87, Cl. 137-359.000.

Botrie, Alexander. Cartridge for the dispensing of two component systems from caulking guns. 4,676,657, 6-30-87, Cl. 366-177.000.

Botsch, Hansjurgen: *See—*

Hentschel, Karl-Heinz; Kussi, Siegfried; and Botsch, Hansjurgen, 4,666,618, Cl. 252-47.000.

Botsolas, Carol: *See—*

Botsolas, Chris J., 4,669,509, Cl. 138-178.000.

Botsolas, Chris J., to Botsolas, Carol. Pipe insulation fitting cover and fastening means and methods of using the same. 4,669,509, 6-2-87, Cl. 138-178.000.

Botstein, David; Davis, Ronald W.; Fink, Gerald R.; Taunton-Rigby, Alison; Knowlton, Robert G.; Mao, Jen-i; Moir, Donald T.; and Goff, Christopher G., to Collaborative Research, Inc. GAL1 yeast promoter linked to non galactokinase gene. 4,661,454, 4-28-87, Cl. 435-256.000.

Botstein, David; Fink, Gerald R.; and Davis, Ronald W., to Collaborative Research, Inc. Rennin-containing disrupted yeast cells used in cheese manufacture. 4,695,470, 9-22-87, Cl. 426-37.000.

Botstiber, Dietrich W.; and Nielsen, David A., to Aeroquip Corporation. Liquid filter with chip detecting means. 4,657,671, 4-14-87, Cl. 210-86.000.

Bott, John A. Vehicle luggage carrier. 4,673,119, 6-16-87, Cl. 224-326.000.

Bott, John A. Vehicle article carrier. 4,684,048, 8-4-87, Cl. 224-326.000.

Bott, Kaspar; Kaibel, Gerd; Hoffmann, Herwig; Irnich, Rudolf; and Kratzer, Otto, to BASF Aktiengesellschaft. Continuous preparation of furmamide. 4,659,866, 4-21-87, Cl. 564-137.000.

Bott, Steven E., to Coulter Electronics of New England, Inc. System for measuring the size distribution of particles dispersed in a fluid. 4,676,641, 6-30-87, Cl. 356-336.000.

Bottaccio, Giorgio: *See—*

Marraccini, Antonio; Carlini, Filippo M.; Bottaccio, Giorgio; Pasquale, Antonio; and Maranzana, Giorgio, 4,655,843, Cl. 106-308.00B.

Bottalico, John J.: *See—*

Markowski, Robert G.; Balcezak, Stanley M., Jr.; Bottalico, John J.; Morby, John A.; and Sabatella, Robert J., 4,675,481, Cl. 200-144.00R.

Bottamiller, Douglas O.; and Spector, George. Cutting head for lawn trimmer. 4,644,655, 2-24-87, Cl. 30-347.000.

Bottas, Michael J.: *See—*

Burk, Jeffrey L.; Bottas, Michael J.; Pielemeier, John W.; and Mueller, Dale E., 4,693,095, Cl. 68-134.000.

Bottch, Henning: *See—*

Hausberg, Hans-Heinrich; Bottch, Henning; Gottschlich, Rudolf; Seyfried, Christoph; and Minck, Klaus-Otto, 4,698,351, Cl. 514-338.000.

Bottcher, Henning; Fuchs, Andreas; and Seyfried, Christoph, to Merck Patent Gesellschaft mit beschrankter Haftung. Certain 1,2,3,6-tetrahydro-pyridyl-N-lower-alkanoyl-pyridines as intermediates. 4,665,187, 5-12-87, Cl. 546-255.000.

Bottcher, Henning: *See—*

Hausberg, Hans-Heinrich; Bottcher, Henning; Seyfried, Christoph; and Bergmann, Rolf, 4,711,893, Cl. 514-339.000.

Bottem, Dennis J., to Danebo Parts & Equipment, Inc. Logging carriage with band brake. 4,662,525, 5-5-87, Cl. 212-76.000.

Bottenbruch, Ludwig: *See—*

Binsack, Rudolf; Kohler, Karl-Heinz; Grigo, Ulrich; Morbitzer, Leo; Bottenbruch, Ludwig; and Heitz, Walter, 4,686,262, Cl. 525-177.000.

Dicke, Hans-Rudolf; Bottenbruch, Ludwig; Wedemeyer, Karlfried; Paetz, Klaus-Christian; and El Sayed, Aziz, 4,701,515, Cl. 528-176.000.

Eichenauer, Herbert; Doring, Joachim; Ott, Karl-Heinz; and Bottenbruch, Ludwig, 4,652,614, Cl. 525-71.000.

Eichenauer, Herbert; Zabrocki, Karl; Doring, Joachim; Ott, Karl-Heinz; and Bottenbruch, Ludwig, 4,668,737, Cl. 525-73.000.

Freitag, Dieter; Bottenbruch, Ludwig; Wilms, Klaus G.; and Tacke, Peter, 4,645,806, Cl. 525-462.000.

Kress, Hans-Jurgen; Bottenbruch, Ludwig; Witman, Mark; Kircher, Klaus; Lindner, Christian; and Ott, Karl-Heinz, 4,649,168, Cl. 524-130.000.

Nielinger, Werner; Stix, Wolfgang; and Bottenbruch, Ludwig, 4,645,822, Cl. 528-336.000.

Nielinger, Werner; Brinkmeyer, Hermann; Binsack, Rudolf; Bottenbruch, Ludwig; and Fullmann, Heinz-Josei, 4,673,728, Cl. 528-339.000.

Stix, Wolfgang; and Bottenbruch, Ludwig, 4,663,424, Cl. 528-182.000.

Bottger, Friedrich; and Gerhardt, Klaus, to G. Siempelkamp GmbH & Co. Belt-type particleboard press with flexible upper platen. 4,645,632, 2-24-87, Cl. 264-120.000.

Bottger, Friedrich; and Gerhardt, Klaus, to G. Siempelkamp GmbH & Co. Particleboard press with spring-loaded platen. 4,647,417, 3-3-87, Cl. 264-120.000.

Bottger, Klaus-Georg: *See—*

Osterwald, Werner; Bottger, Klaus-Georg; and Kader, Rudolf, 4,698,896, Cl. 29-523.000.

Bottger, Wolfgang; Schneider, Heinz; and Weingarten, Wilh, to Mannesmann Aktiengesellschaft. Method for non-destructive testing with guided waves. 4,646,572, 3-3-87, Cl. 73-602.000.

Botti, Edoardo; and Stefani, Fabrizio, to SGS Microelettronica S.p.A. Device for protecting the final stage of a power amplifier against shorting. 4,714,898, 12-22-87, Cl. 330-298.000.

Bottin, Marie-Francoise: *See—*

Walling, Jorg-Hein; Cornibert, Jacques; Baxter, Gordon D.; Bottin, Marie-Francoise; Axiuk, Oleg; and Reed, Phillip J., 4,710,594, Cl. 174-120.0SR.

Bottini, Gerard: *See—*

Fevrier, Alain; Kermarrec, Jean-Claude; and Bottini, Gerard, 4,675,637, Cl. 336-58.000.

Bottitta, Joseph: *See—*

Fishman, Aaron H.; and Bottitta, Joseph, 4,660,725, Cl. 206-509.000.

Bottle, Dietrich; and Ho Tan, Xuan, to International Standard Electric Corporation. Combined narrow band and broad band telephone communication system. 4,654,866, 3-31-87, Cl. 379-54.000.

Botto, Joan. Measuring and dispensing canister. 4,674,660, 6-23-87, Cl. 222-181.000.

Botto, Paolo: *See—*

Oreglia, Aurelio; Botto, Paolo; and Freschi, Claudio, 4,680,340, Cl. 525-72.000.

Bottom, Michael T., to T. J. Bottom Industries, Inc. Knock-down adjustable awning construction. 4,694,876, 9-22-87, Cl. 160-45.000.

Bottomley, C. Edward. Interchangeable gun cleaning devices. 4,674,218, 6-23-87, Cl. 42-95.000.

Bottomley, Frank: *See—*

Hradil, John H.; Bottomley, Frank; and Crawshay, Richard, 4,648,776, Cl. 414-565.000.

Bottomley, Paul A., to General Electric Company. NMR spectroscopy body probes with at least one surface coil. 4,636,730, 1-13-87, Cl. 324-318.000.

Bottomley, Paul A.; and Schenck, John F., to General Electric Company. Elliptical cross-section slotted-tube radio-frequency resonator for nuclear magnetic resonance imaging. 4,641,097, 2-3-87, Cl. 324-318.000.

Bottomley, Paul A., to General Electric Company. Methods for overcoming transient magnetic field inhomogeneity in nuclear magnetic resonance imaging. 4,647,858, 3-3-87, Cl. 324-320.000.

Bottomley, Paul A.; Edelstein, William A.; Hart, Howard R., Jr.; Schenck, John F.; Redington, Rowland W.; and Leue, William M., to General Electric Company. High-field nuclear magnetic resonance imaging/spectroscopy system. 4,689,563, 8-25-87, Cl. 324-309.000.

Bottomley, Paul A.: *See—*

Hodsoll, Raymond J., Jr.; Karr, Steven G.; Leue, William M.; Smith, Lowell S.; Redington, Rowland W.; Bottomley, Paul A.; and Edelstein, William A., 4,667,159, Cl. 324-309.000.

Vatis, Dimitrios; Bottomley, Paul A.; and Foster, Thomas H., 4,682,106, Cl. 324-307.000.

Bottomore, David; and Bottomore, Paul, to Glidevale Building and Products, Ltd. Roof space ventilator. 4,660,463, 4-28-87, Cl. 98-37.000.

Bottomore, Paul: *See—*

Bottomore, David; and Bottomore, Paul, 4,660,463, Cl. 98-37.000.

Bottoms, Clifford C. Pipe spinner assembly. 4,649,778, 3-17-87, Cl. 81-57.330.

Botton, Guilio. Toothed belt drive between oblique shafts. 4,642,071, 2-10-87, Cl. 474-63.000.

Bottos, Roberto: *See—*

Nerli, Giovanni; Nesti, Solitario; Grego, Francesco; Bottos, Roberto; and Ferro, Francesco, 4,698,960, Cl. 57-401.000.

Nerli, Giovanni; Grego, Francesco; Bottos, Roberto; and Ferro, Francesco, 4,704,859, Cl. 57-401.000.

Bottrell, Gerald W. System for production of induction machines against damage from residual voltage effects. 4,710,841, 12-1-87, Cl. 361-23.000.

Botts, John C.: *See—*

Studniarz, Stanley A.; Botts, John C.; and Johnson, John S., 4,634,911, Cl. 310-215.000.

Botts, Thomas E.; and Powell, James R., to United States of America, Energy. Process for electrochemically gasifying coal using electromagnetism. 4,643,809, 2-17-87, Cl. 204-155.000.

Botvidsson, Lars, to Siemens Aktiengesellschaft. Endocardial electrode arrangement. 4,641,664, 2-10-87, Cl. 128-785.000.

Botvidsson, Lars I.: *See—*

Herbst, Ewa; and Botvidsson, Lars I., 4,683,896, Cl. 128-785.000.

Botzman, Thomas J., to Goodyear Tire & Rubber Company, The. Coating material for use on sulfur vulcanized rubber. 4,668,728, 5-26-87, Cl. 524-394.000.

Botzman, Thomas J., to Goodyear Tire & Rubber Company, The. Coating material for use on sulfur vulcanized rubber. 4,670,496, 6-2-87, Cl. 524-364.000.

Botzman, Thomas J., to Goodyear Tire & Rubber Company, The. Method of bonding polyurethane to cured rubber. 4,704,176, 11-3-87, Cl. 156-125.000.

Bouadma, Noureddine; Brillouet, Francois; and Kampfer, Angelika. Process for the production of an integrated laser-photodetector structure. 4,692,207, 9-8-87, Cl. 156-649.000.

Bouboulis, Constantine J., to Exxon Research & Engineering Co. Process for preparing superior high solids coatings. 4,638,031, 1-20-87, Cl. 524-773.000.

Bouc, Gary L.: *See—*

Daghe, Joseph L.; Humes, Dennis W.; Stanley, Mervin D.; and Bouc, Gary L., 4,690,019, Cl. 81-99.000.

Bouchal, Robert A. System and game that stimulates creative and verbal exercise. 4,637,799, 1-20-87, Cl. 434-236.000.

Bouchal, Robert A. Story telling game. 4,684,135, 8-4-87, Cl. 273-269.000.

Bouchard, Andre C.; Thibault, Paul A.; and Lagushenko, Radomir I., to GTE Products Corporation. Electrical lead-ins for use for arc sustaining atmospheres. 4,678,520, 7-7-87, Cl. 148-6.350.

Bouchard, Andre C.; Grossman, Mark; and George, William, to GTE Products Corporation. Method for sealing arc discharge lamps. 4,689,031, 8-25-87, Cl. 445-26.000.

Bouchard, Andre C.; and Thibault, Paul A., to GTE Products Corporation. Method of making arc discharge lamps. 4,698,040, 10-6-87, Cl. 445-26.000.

Bouchard, Antoine J. Dispenser for particulate matter. 4,678,377, 7-7-87, Cl. 406-139.000.

Bouchard, Claude; and Boulanger, Pierre, to Canadian Patents and Development Limited-Societe Canadienne des Brevets et d'Exploitation Limitee. Particle detector. 4,680,468, 7-14-87, Cl. 250-310.000.

Bouchard, John; and Ray, Robin, to Northrop Corporation. Apparatus and method for reducing gyro activation time. 4,648,284, 3-10-87, Cl. 74-5.460.

Bouchard, Roland D. Garbage truck with trash bin cleaning system. 4,694,846, 9-22-87, Cl. 134-78.000.

Boucharlat, Gilles; and Chabbal, Jean, to Thomson-CSF. Charge transfer photosensitive device. 4,654,713, 3-31-87, Cl. 358-213.000.

Boucharlat, Gilles; and Brissot, Louis, to Thomson-CSF. Line transfer reading device with feedback regulating the drive charge. 4,695,890, 9-22-87, Cl. 358-213.310.

Bouchaudon, Jean: *See—*

Aloup, Jean C.; Bouchaudon, Jean; Farge, Daniel; and James, Claude, 4,680,303, Cl. 514-336.000.

Boucher, Armand R., to Joseph E. Seagram & Sons, Inc. Alcohol-free wine and its manufacture. 4,643,083, 2-17-87, Cl. 99-275.000.

Boucher, Guy M. G.: *See—*

Cuvelier, Antoine L.; and Boucher, Guy M. G., 4,638,448, Cl. 364-565.000.

Boucher, James E., to Hudson Lock, Inc. Sliding bolt locking device. 4,641,506, 2-10-87, Cl. 70-129.000.

Boucher, Paul D.: *See—*

Gavaghan, Thomas J.; Boucher, Paul D.; and Janatka, Karel, 4,637,602, Cl. 271-238.000.

Boucher-Puputti, Brenda A.: *See—*

Barry, Vincent J.; Boucher-Puputti, Brenda A.; Fitzgerald, Thomas W.; and Bawolek, Edward J., 4,659,427, Cl. 156-643.000.

Boucher, Ronald H., to Crathern Engineering Co., Inc. Wrapping machine. 4,701,238, 10-20-87, Cl. 156-479.000.

Boucher, Stephen G.; and Jeffers, Robert K., to Airmar Technology Corporation. Marine instrument. 4,644,787, 2-24-87, Cl. 73-187.000.

Boucher, Stephen G., to Airmar Technology Corporation. Modular marine instrument. 4,644,788, 2-24-87, Cl. 73-187.000.

Boucher, Stephen G.; and Lagace, Maurice P., to Airmar Technology Corporation. Marine sensor mounting mechanism. 4,667,915, 5-26-87, Cl. 248-293.000.

Boucherie, Leonel, to G.B. Boucherie, Firma. Process for removing the wrapper from a fibre bundle. 4,680,850, 7-21-87, Cl. 29-426.300.

Boucherie, Leonel, to G.B. Boucherie, Firma. Automatic feeding arrangement for fibre magazine and/or fibre cassattes of brush-making machines. 4,688,857, 8-25-87, Cl. 300-7.000.

Bouchette, Michael P., to James River Corporation. Antimicrobially active, non-woven web used in a wet wiper. 4,692,374, 9-8-87, Cl. 428-288.000.

Bouchez, Guy: *See—*

Le Houerou, Gilbert; Bouchez, Guy; Preynat, Pierre; and Villain, Charles, 4,646,433, Cl. 29-755.000.

Bouchez, Jean-Pierre: *See—*

Jamonet, Bernard; Rigouard, Alain; Bouchez, Jean-Pierre; and Duc, Jean, 4,711,721, Cl. 210-607.000.

Bouchillon, Charles W., to Bauer Bros. Co., The. Fiber recovery elutriating hydrocyclone. 4,696,737, 9-29-87, Cl. 209-210.000.

Bouchu, Michel, to Commissariat a l'Energie Atomique. Device for controlling the priming of a pyrotechnic device. 4,672,895, 6-16-87, Cl. 102-206.000.

Bouchut, Pierre: *See—*

Roca, Yves; Rousset, Jacky; Bouchut, Pierre; Leblanc, Marie-Christine; and Baffreau, Daniel, 4,681,634, Cl. 106-90.000.

Bouclier, Martine: *See—*

Shroot, Braham; Eustache, Jacques; and Bouclier, Martine, 4,666,941, Cl. 514-569.000.

Boudet, Luc: *See—*

Behar, Francoise; Roucache, Jeannine; Auger, Jean; and Boudet, Luc, 4,710,354, Cl. 422-80.000.

Boudewijns, Arnoldus J. J.; and Esser, Leonard J. M., to U.S. Philips Corporation. Charge transfer device having a subdivided channel output region. 4,649,554, 3-10-87, Cl. 377-60.000.

Boudewijns, Arnoldus J. J., to U.S. Philips Corporation. Antiblooming image sensor device. 4,654,682, 3-31-87, Cl. 357-24.000.

Boudewijns, Arnoldus J. J.; and Esser, Leonard J. M., to U.S. Philips Corporation. Charge coupled semiconductor device with dynamic control. 4,677,650, 6-30-87, Cl. 377-63.000.

Boudewijns, Arnoldus J. J., to U.S. Philips Corporation. Charge transfer device. 4,691,218, 9-1-87, Cl. 357-24.000.

Boudewijns, Arnoldus J. J., to U.S. Philips Corp. Method of manufacturing an antiblooming image sensor device. 4,697,329, 10-6-87, Cl. 437-2.000.

Boudewijns, Arnoldus J. J.: *See—*

Kraus, Uwe E.; Boudewijns, Arnoldus J. J.; Boon, Cornelis A. M.; and Frensch, Adrianus J., 4,672,449, Cl. 358-148.000.

Boudin, Leon L.; and Duff, Harry F. Apparatus and method for producing a resealable container. 4,659,322, 4-21-87, Cl. 493-57.000.

Boudot, Bernard; and Nataf, Philippe, to Rhone-Poulenc Specialites Chimiques. Novel silicon powder having high purity and density and method of making same. 4,661,335, 4-28-87, Cl. 423-348.000.

Boudot, Bernard: *See—*

Seon, Francoise; and Boudot, Bernard, 4,636,353, Cl. 420-416.000.

Boudreau, Daniel A.; and Salas, Edward R., to Honeywell Information Systems Inc. Asynchronous multiport parallel access memory system for use in a single board computer system. 4,654,788, 3-31-87, Cl. 364-200.000.

Boudreau, Michael P.: *See—*

Davis, John W.; Corley, Harvey D.; Boudreau, Michael P.; and Laughlin, J. Larry, 4,651,258, Cl. 362-147.000.

Boudreau, Robert A., to GTE Products Corporation. Mask for patterning electrode structures in thin film EL devices. 4,715,940, 12-29-87, Cl. 204-192.100.

Boudreaux, Donald P., to Borden, Inc. Cheese-flavored substance and method of producing same. 4,675,193, 6-23-87, Cl. 426-35.000.

Boudreaux, Edwin, Jr.; Lee, David M.; Hutchings, David A.; Sieloff, Gloria M.; and Willard, G. Fred, to Owens-Corning Fiberglas Corporation. Melt processable optically anisotropic polymer processing. 4,668,760, 5-26-87, Cl. 528-193.000.

Boudreaux, John C. Record support apparatus. 4,653,038, 3-24-87, Cl. 369-72.000.

Boudrot, John E. Loose-leaf document binder. 4,714,366, 12-22-87, Cl. 402-13.000.

Bouet, Jacques, to Alsthom-Atlantique. Catalyst for a basic solution electrolyzer. 4,657,653, 4-14-87, Cl. 204-290.00R.

Bouet, Philippe A., to Faborga, S.A. Scale-inhibiting process. 4,704,208, 11-3-87, Cl. 210-698.000.

Boufford, Richard, to Boufford, Richard. Portable front bike pack assembly. 4,638,933, 1-27-87, Cl. 224-41.000.

Boughton, Geoffrey J., to International Computers Limited. Data display system. 4,639,723, 1-27-87, Cl. 340-799.000.

Boughton, Geoffrey J., to International Computers Limited. Data display control. 4,647,916, 3-3-87, Cl. 340-724.000.

Boughton, Thomas T., to T. T. Boughton & Sons Ltd. Load-carrying vehicles. 4,652,201, 3-24-87, Cl. 414-491.000.

Bougle, Jean, to Thomson-CGR. Input regulated high voltage D.C. power supply system. 4,652,985, 3-24-87, Cl. 363-37.000.

Bouhnik, Claude: *See—*

Penato, Jean M.; Hery, Paul; and Bouhnik, Claude, 4,670,895, Cl. 378-125.000.

Bouiller, Jean G.; and Jourdain, Gerard E. A., to Societe Nationale d'Etude et de Construction de Moteur d'Aviation "S. N. E. C. M. A.". Compressor blow-off arrangement. 4,679,982, 7-14-87, Cl. 415-145.000.

Bouiller, Jean G.; and Soligny, Marcel R., to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Turbomachine casing with containment structure intended to contain fractured rotating parts. 4,705,454, 11-10-87, Cl. 415-197.000.

Bouillet, Andre , to Moulinex, Societe Anonyme. Electric oven. 4,659,908, 4-21-87, Cl. 219-386.000.

Bouillon, Claude; Lang, Gerard; and Laugier, Jean-Pierre, to L'Oreal. Antiacne composition containing benzoic peroxide in association with at least one sun filter. 4,671,956, 6-9-87, Cl. 424-59.000.

Bouko, Jean: *See—*

Drabowitch, Serge; Aubry, Claude; Casseau, Daniel; and Bouko, Jean, 4,665,405, Cl. 343-756.000.

Boulais, Dennis R.: *See—*

Stokoe, Philip T.; and Boulais, Dennis R., 4,687,887, Cl. 200-16.00F.

Boulanger, Alain; and Luyten, Walter, to Societe Francaise de Stockage Geologique Geostock; and Geostock and Distrigaz. Method and installation for storing liquid gas at low temperature in an underground cavity. 4,671,700, 6-9-87, Cl. 405-56.000.

Boulanger, Alain; and Luyten, Walter, to Societe Francaise de Stockage Geologique Geostock; and Societe Distrigaz. Method of maintaining constant the composition of a product stored in a low temperature liquefied gas store. 4,689,064, 8-25-87, Cl. 62-54.000.

Boulanger, Edward, to Lance Wire and Cable, Inc. Integral connector having plastic spring-clips. 4,681,386, 7-21-87, Cl. 439-347.000.

Boulanger, Henry: *See—*

Calenda, Ciro; Notaro, Giuseppe; and Boulanger, Henry, 4,689,599, Cl. 337-365.000.

De Filippis, Pietro; Calenda, Ciro; Notaro, Giuseppe; and Boulanger, Henry, 4,696,579, Cl. 374-187.000.

Boulanger, Henry J., to Texas Instruments Incorporated. Pressure responsive device. 4,638,721, 1-27-87, Cl. 92-6.00D.

Boulanger, Henry J., to Texas Instruments Incorporated. Sealed electrical switch and mounting therefor. 4,641,121, 2-3-87, Cl. 337-380.000.

Boulanger, Paul. Paddle-driven watercraft. 4,710,143, 12-1-87, Cl. 441-65.000.

Boulanger, Pierre: *See—*
Bouchard, Claude; and Boulanger, Pierre, 4,680,468, Cl. 250-310.000.

Boulay, Russell; Drouin, Bernard; and Gagnon, Richard, to Universite Laval. Method for measuring the fibre orientation anisotropy in a fibrous structure. 4,654,529, 3-31-87, Cl. 250-341.000.

Boulder 12 Investments: *See—*
Petrak, Harry A., 4,694,943, Cl. 192-35.000.

Bouldin, Dwight: *See—*
Bouldin, Floyd E.; Bouldin, Lloyd; Bouldin, Dwight; and Pack, Jerry W., 4,697,623, Cl. 141-80.000.

Bouldin, Eric; Haddock, Richard; and Dyball, Christopher J., to Drexler Technology Corporation. Ultrathin optical recording medium with moisture barrier. 4,692,402, 9-8-87, Cl. 430-945.000.

Bouldin, Floyd E., to Bouldin & Lawson, Inc. Pot dispensing apparatus. 4,666,060, 5-19-87, Cl. 221-11.000.

Bouldin, Floyd E.; Bouldin, Lloyd; Bouldin, Dwight; and Pack, Jerry W., to Bouldin & Lawson, Inc. Apparatus for continuously filling and preparing pots for receiving plants. 4,697,623, 10-6-87, Cl. 141-80.000.

Bouldin, Floyd E., to Bouldin & Lawson, Inc. Continuous soil mixing apparatus. 4,712,919, 12-15-87, Cl. 366-133.000.

Bouldin & Lawson, Inc.: *See—*
Bouldin, Floyd E., 4,666,060, Cl. 221-11.000.
Bouldin, Floyd E.; Bouldin, Lloyd; Bouldin, Dwight; and Pack, Jerry W., 4,697,623, Cl. 141-80.000.
Bouldin, Floyd E., 4,712,919, Cl. 366-133.000.

Bouldin, Lloyd: *See—*
Bouldin, Floyd E.; Bouldin, Lloyd; Bouldin, Dwight; and Pack, Jerry W., 4,697,623, Cl. 141-80.000.

Boulet, Jacques, to Jaeger. Two-threshold pressure switch. 4,647,739, 3-3-87, Cl. 200-81.400.

Bouley, Etienne: *See—*
Teulon, Jean M.; and Bouley, Etienne, 4,668,801, Cl. 549-72.000.

Bouley, Jean C., to Allied Corporation. Electric connector. 4,681,391, 7-21-87, Cl. 439-444.000.

Bouley, Jean C., to Amphenol Corporation. Tulip-shaped IC socket contact. 4,707,052, 11-17-87, Cl. 439-844.000.

Boulinguiez, Martine; Forquy, Christian; and Barrault, Joel, to Societe Nationale Elf Aquitaine (Production). Process for the production of methyl mercaptan from oxides of carbon. 4,665,242, 5-12-87, Cl. 568-70.000.

Boulitrop, Francois; Chartier, Eric; Mourey, Bruno; and Le Berre, Serge, to Thomson-CSF. Method of fabrication of a control transistor for a flat-panel display screen. 4,697,331, 10-6-87, Cl. 437-82.000.

Boulitrop, Francois: *See—*
Szydlo, Nicolas, and Boulitrop, Francois, 4,685,195, Cl. 437-41.000.
Szydlo, Nicolas; Boulitrop, Francois; and Kasprzak, Rolande, 4,704,784, Cl. 437-41.000.

Boulter, Donald; Gatehouse, Angharad M. R.; Gatehouse, John A.; and Cox, Roger B., to Agricultural Genetics Company, Limited. Plant protection method. 4,640,836, 2-3-87, Cl. 424-195.100.

Boultinghouse, Harold D., to Phillips Petroleum Company. Resinous polymer printing. 4,663,212, 5-5-87, Cl. 428-195.000.

Boultinghouse, Harold D., to Phillips Petroleum Company. Polymer welding process and composition. 4,666,549, 5-19-87, Cl. 156-308.600.

Boulton, David A.; Kopka, Ihor E.; Moore, Vernon L.; and Pessolano, Arsenio A., to Merck & Co., Inc. Morpholino pyridyl thiazole compound. 4,697,012, 9-29-87, Cl. 544-124.000.

Boulton, David A.: *See—*
Chang, Michael N.; Thompson, Kathryn L.; and Boulton, David A., 4,713,393, Cl. 514-469.000.

Bouma, Jitze: *See—*
de Wit, Paulus A. J.; and Bouma, Jitze, 4,651,677, Cl. 119-20.000.

Bouman, Anton J.; and Geertsema, Eise B., to U.S. Philips Corporation. High pressure discharge lamp. 4,642,520, 2-10-87, Cl. 315-73.000.

Bouman, Anton J.; Kostlin, Heiner; and Kroontje, Wiggert, to U.S. Philips Corporation. Electrodeless low-pressure gas discharge lamp. 4,645,967, 2-24-87, Cl. 313-248.000.

Boumendil, Jean-Jack: *See—*
Pescatore, Richard, and Boumendil, Jean-Jack, 4,708,645, Cl. 432-152.000.

Boumendil, Jean-Paul: *See—*
Cousin, Stephane; and Boumendil, Jean-Paul, 4,695,338, Cl. 156-71.000.
Cousin, Stephane; and Boumendil, Jean-Paul, 4,696,847, Cl. 428-76.000.

Bounds, William E. Dual condiment mill. 4,709,865, 12-1-87, Cl. 241-169.100.

Bouady, Bruce K.; and Miller, Craig M., to Westinghouse Electric Corp. Terminal block mount. 4,634,212, 1-6-87, Cl. 339-198.00R.

Boundy, Francis J. Novelty golf ball. 4,697,807, 10-6-87, Cl. 272-27.00N.

Bouplon, Edward J., to Allied Steel & Tractor Products, Inc. Reversible underground piercing device. 4,662,457, 5-5-87, Cl. 173-91.000.

Boura, Andre, to Societe Francaise d'Equipments pour la Navigation Aerienne (S.N.E.F.A.). Micromachined accelerometer with electrostatic return. 4,711,128, 12-8-87, Cl. 73-517.00B.

Bourassa, Ronald R., to Inmos Corporation. Polysilicon resistor with low thermal activation energy. 4,658,378, 4-14-87, Cl. 365-154.000.

Bourassa, Ronald R.; and Butler, Douglas B., to Inmos Corporation. Resistor with low thermal activation energy. 4,679,170, 7-7-87, Cl. 365-154.000.

Bourbeau, Frank J. Stabilized control system and method for coupling an induction generator to AC power mains. 4,656,413, 4-7-87, Cl. 322-47.000.

Bourbon, Jean, to Ets. A. Bourbon et Fils. Display container. 4,666,036, 5-19-87, Cl. 206-45.230.

Bourbon, Jean, to Ets. A. Bourbon et Fils. Latching storage/display box for diskettes or the like. 4,708,239, 11-24-87, Cl. 206-45.130.

Bourbon, Philippe: *See—*
Bueno, Serge; and Bourbon, Philippe, 4,701,912, Cl. 370-94.000.

Bourdeau, Joel: *See—*
Dimier, Jean-Pierre; and Bourdeau, Joel, 4,688,822, Cl. 280-628.000.
Dimier, Jean-Pierre; and Bourdeau, Joel, 4,699,396, Cl. 280-628.000.

Bourdeau, Serge. Cordless hand held hot air hair dryer. 4,635,382, 1-13-87, Cl. 34-97.000.

Bourdet, Dominique: *See—*
Ayoub, Joseph; and Bourdet, Dominique, 4,677,849, Cl. 73-155.000.

Bourdin, Christian: *See—*
Cheek, Thomas B.; and Bourdin, Christian, 4,675,833, Cl. 364-523.000.

Bourdon, Claude: *See—*
Taylor, Frank S.; and Bourdon, Claude, 4,682,432, Cl. 40-573.000.

Bourdon, Guy; and Lampin, Dominique, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Explotation des Procedes Georges Claude. Flowmeter having a thermoresistant element and its calibration process. 4,685,324, 8-11-87, Cl. 73-3.000.

Bourdon, Normand C., to Allied Corporation. Electrical connector assembly having a locking arrangement. 4,669,797, 6-2-87, Cl. 439-353.000.

Bourdon, Raymond, to Atochem. Apparatus for the measurement of the resistance to shock. 4,674,318, 6-23-87, Cl. 73-12.000.

Bourdon, Raymond; Kunesch, Paul; and Cazes, Andre, to Atochem. Apparatus for making an extruded composite structure. 4,699,579, 10-13-87, Cl. 425-113.000.

Bourg, Francois: *See—*
Delaunay, Marc; Gualandris, Rene; Geller, Richard; Jacquot, Claude; Ludwig, Paul; Mathonnet, Jean-Marc; Rocco, Jean-Claude; Sermet, Pierre; Zadworny, Francois; and Bourg, Francois, 4,638,216, Cl. 315-111.810.

Bourg, Robert A., to Amoco Corporation. Tubing assembly. 4,705,111, 11-10-87, Cl. 166-277.000.

Bourgault, Francois P.; and Bourgault, Joseph L., to F. P. Bourgault Industries, Ltd. Farming implement with wheel depth control. 4,655,296, 4-7-87, Cl. 172-400.000.

Bourgault, Joseph L.: *See—*
Bourgault, Francois P.; and Bourgault, Joseph L., 4,655,296, Cl. 172-400.000.

Bourgeault, Leo B., to Allied Corporation. Bridge circuit for reduced switching losses. 4,635,181, 1-6-87, Cl. 363-132.000.

Bourgeois, Aline; and Jan, Didier, to Institut Francais Du Petrole. Method of improving the restoration of images supplied by a lateral sonar and a device for implementing same. 4,675,853, 6-23-87, Cl. 367-88.000.

Bourgeois, David R.: *See—*
Chasse, Dennis W.; Bourgeois, David R.; and Comins, Todd R., 4,646,260, Cl. 364-900.000.
Clark, Vincent M., Jr.; Bourgeois, David R.; Chasse, Dennis W.; and Comins, Todd R., 4,669,057, Cl. 364-900.000.

Bourgeois, Jacques. Device for automatically closing the elevator deck of lift gate. 4,671,387, 6-9-87, Cl. 187-9.00R.

Bourgeois, Jean-Marc: *See—*
Cloutier, Marius; Bourgeois, Jean-Marc; and Lalonde, Francois, 4,675,664, Cl. 340-685.000.
Lalonde, Francois; Bourgeois, Jean-Marc; and Cloutier, Marius, 4,675,670, Cl. 340-870.370.

Bourgeois, Jean-Paul; Couffin, Frederic; and Magnier, Claude, to Rhone-Poulenc Industries. Novel sodium orthophosphate. 4,671,947, 6-9-87, Cl. 423-308.000.

Bourgeois, Jean-Paul; Couffin, Frederic; and Magnier, Claude, to Rhone-Poulenc Industries. Novel anhydrous sodium tripolyphosphate. 4,671,949, 6-9-87, Cl. 423-315.000.

Bourgeois, Leverence, Jr., to Chatelain, Robert P. Convertible spreader grader assembly. 4,655,297, 4-7-87, Cl. 172-445.100.

Bourgeois, Ronald D. Accumulating magazine. 4,635,784, 1-13-87, Cl. 198-347.000.

Bourgeon, Michel, to Compagnie Francaise d'Exploitation de Marques-Cofrem. Liquid tank and process for operating it. 4,688,587, 8-25-87, Cl. 137-2.000.

Bourgery, Guy R.: *See—*
Platel, Alain Y.; Bourgery, Guy R.; and Lacour, Alain, deceased, 4,639,452, Cl. 514-252.000.

Bourgognon, Henri: *See—*
Torck, Bernard; Amigues, Pierre; Weill, Jerome; Gueguen, Claude; Llinares, Michel; and Bourgognon, Henri, 4,664,675, Cl. 44-60.000.

Bourgoin, Alain: *See—*
Bailly, Francois P.; and Bourgoin, Alain, 4,682,355, Cl. 379-346.000.

Bourgoine, Edward: *See—*
Millay, Lawrence L.; and Bourgoine, Edward, 4,715,147, Cl. 51-165.710.

Bourgois, Alain; Delezay, Marylene; and Fert, Vincent, to Immunotech. Process for obtaining complex FVIII/vWF of therapeutical use and resulting products. 4,670,543, 6-2-87, Cl. 530-383.000.

Bourgonje, Wouter; Janssen, Daniel J. G.; van Reede, Willem A.; and Vossen, Johannes A. A., to U.S. Philips Corporation. Method, station and system for the transmission of messages in the form of data packets. 4,672,606, 6-9-87, Cl. 370-85.000.

Bourke, Edward L.; and Cartwright, James E., to Helix Technology Corporation. Pressure relief filter and valve and cryopump utilizing the same. 4,697,617, 10-6-87, Cl. 137-549.000.

Bourke, Eleanor F.: *See—*
  Edelson, Richard L., 4,683,889, Cl. 128-395.000.
  Edelson, Richard L., 4,684,521, Cl. 424-101.000.

Bourke, Frederic A., Jr.: *See—*
  Edelson, Richard L., 4,683,889, Cl. 128-395.000.
  Edelson, Richard L., 4,684,521, Cl. 424-101.000.

Bourke, Robert F.: *See—*
  Baxter, Richard V., Jr.; Bourke, Robert F.; Ellingson, David R.; Paul, Terrance D.; and Layden, David L., 4,692,854, Cl. 363-75.000.

Bourland, Joe D.: *See—*
  Tacker, Willis A., Jr.; Bourland, Joe D.; Babbs, Charles F.; and Geddes, Leslie A., 4,708,145, Cl. 128-419.00D.

Bourland, Larry G., to Atlantic Richfield Company. Processing additive for vinyl compounds. 4,665,118, 5-12-87, Cl. 524-394.000.

Bourland, Larry G., to Atlantic Richfield Company. Polymeric molding composition containing styrenic copolymer, polycarbonate and MBS polymer. 4,696,972, 9-29-87, Cl. 525-67.000.

Bourn, Ronald L. Ram wing surface effect vehicle. 4,705,234, 11-10-87, Cl. 244-12.100.

Bourne, Carol: *See—*
  Bourne, Richard; and Bourne, Carol, 4,645,261, Cl. 297-118.000.

Bourne, Richard; and Bourne, Carol. Child's convertible furniture. 4,645,261, 2-24-87, Cl. 297-118.000.

Bourne, Richard C.; Fanciullo, Martin; and Bos, Willem, to Phenix Heat Pump Systems, Inc. Three function heat pump system. 4,693,089, 9-15-87, Cl. 62-79.000.

Bourns, Inc.: *See—*
  King, William H., 4,679,886, Cl. 439-816.000.
  Smith, Ronald E., 4,647,898, Cl. 338-192.000.

Bourquard, Pierre; and Bourquard, Yves, to Biwi S.A. Tag for wild game. 4,686,783, 8-18-87, Cl. 40-304.000.

Bourquard, Yves: *See—*
  Bourquard, Pierre; and Bourquard, Yves, 4,686,783, Cl. 40-304.000.

Bourque, Rene, to Warrington Inc. Cross-country ski boot. 4,674,202, 6-23-87, Cl. 36-43.000.

Bourque, Robert F., to GA Technologies Inc. Composite first wall for fusion device. 4,696,781, 9-29-87, Cl. 376-136.000.

Bourrelly, Paul; Monier, Jean; Patin, Henri; Sanson, Charles; and Schoepp, Robert, to Commissariat a l'Energie Atomique. Heat seal monitoring devices for a container, which more particularly contains calogenic material. 4,658,251, 4-14-87, Cl. 340-820.170.

Bourrelly, Paul; Patin, Henri; Schoepp, Robert; and Sanson, Charles, to Commissariat a l'Energie Atomique. Heat flux meter for checking calorigenic materials within a container. 4,684,265, 8-4-87, Cl. 374-43.000.

Bourret, Gerard: *See—*
  Lacroix, Jean-Claude; Franco, Pierre; Le Gall, Stephane; Bourret, Gerard; and Pochet, Jacques, 4,677,644, Cl. 375-5.000.
  Lacroix, Jean-Claude; Franco, Pierre; Le Gall, Stephane; Bourret, Gerard; and Pochet, Jacques, 4,689,790, Cl. 370-110.100.

Bourrieres, Pierre, to Manufacture d'Appareillage Electrique de Cahors. Cable support for an electric power-line pole. 4,701,577, 10-20-87, Cl. 174-45.00R.

Boursier, Daniel: *See—*
  Fruchart, Robert; Madar, Roland; Rouault, Alain; L'Heritier, Philippe; Taunier, Pierre; Boursier, Daniel; Fruchart, Daniel; and Chaudouet, Patrick, 4,663,066, Cl. 252-62.510

Bousaid, Issam S., to Texaco Inc. Recovery of heavy crude oil from shallow formations by in situ combustion. 4,638,864, 1-27-87, Cl. 166-251.000.

Bousaid, Issam S., to Texaco Inc. Carbon dioxide injection with in situ combustion process for heavy oils. 4,649,997, 3-17-87, Cl. 166-261.000.

Bousquet, Beaumont. Clamped, readily-removable oil pan without drain hole. 4,677,947, 7-7-87, Cl. 123-195.00C.

Bousquet, Jacques: *See—*
  Le Page, Jean-Francois; Billon, Alain; Morel, Frederic; Renard, Pierre; Biedermann, Jean-Michel; Laborde, Michel; and Bousquet, Jacques, 4,715,946, Cl. 208-45.000.

Bousquet, Jean-Marc: *See—*
  Thibert, Jean-Jacques; and Bousquet, Jean-Marc, 4,652,213, Cl. 416-223.00R.

Boussac Saint-Freres B.S.F.: *See—*
  De Jonckheere, Raphael, 4,666,542, Cl. 156-164.000.
  Lucas, Gerard; Dussaud, Jacques; and Leroy, Andre, 4,690,719, Cl. 156-201.000.

Boussert, Anne S., to Dow Chemical Company, The. Removal of unsaturated hydrocarbons in anhydrous hydrogen halide by infrared laser radiation. 4,695,357, 9-22-87, Cl. 204-157.410.

Boutade Worldwide Investments NV: *See—*
  Wood, John D.; Coles, Julian M.; and Baxter, William R. S., 4,676,237, Cl. 128-203.170.

Boutcher, Andrew G., Jr.: *See—*
  Arbogast, William C., Jr.; Boutcher, Andrew G., Jr.; Folk, Kenneth F.; Richart, Stephen D.; and Ross, Milton D., 4,649,636, Cl. 29-861.000.

Bouteca, Maurice, to Institut Francais du Petrole. Method for dete
ing at least one magnitude characteristic of a geological formatio
4,660,415, 4-28-87, Cl. 73-155.000.

Bouteille, Daniel; Nicolas, Michel; and Guillin, Daniel, to La Telemec
nique Electrique. Emergency draining device for stopping pneumat
cylinders. 4,690,035, 9-1-87, Cl. 91-442.000.

Bouteille, Daniel; Nicolas, Michel; and Prudhomme, Pierre, to
Telemecanique Electrique. Assembly of connections for pneumat
jacks. 4,702,276, 10-27-87, Cl. 137-580.000.

Bouteiller, Harold L. Apparatus for casting and inverting concre
products. 4,708,611, 11-24-87, Cl. 425-62.000.

Boutevin, Bernard: *See—*
  Bauduin, Gerard; Boutevin, Bernard; Deiss, Willy-Jean; and Pi
  trasanta, Yves, 4,638,018, Cl. 522-103.000.

Boutni, Omar M.; and Liu, Ping Y., to General Electric Compan
Resinous composition of a carbonate resin and a grafted derivative
ethylene-propylene-diene terpolymer exhibiting improved resistan
to organic solvents. 4,638,033, 1-20-87, Cl. 525-67.000.

Boutni, Omar M.; and Liu, Ping Y., to General Electric Compan
Polycarbonate resin blends exhibiting improved resistance to stre
crazing and cracking. 4,656,225, 4-7-87, Cl. 525-67.000.

Boutni, Omar M., to General Electric Company. Polycarbonate comp
sition exhibiting improved wear resistance. 4,663,391, 5-5-87, C
525-146.000.

Boutni, Omar M., to General Electric Company. Thermoplastical
moldable compositions. 4,686,256, 8-11-87, Cl. 524-318.000.

Boutni, Omar M., to General Electric Company. Thermoplastical
moldable compositions. 4,707,511, 11-17-87, Cl. 524-311.000.

Bouton, Francois A., to Agence Spatiale Europeenne. Coating capabl
of resisting to high thermal stress and particularly to coatings f
satellites and spatial vessels and to methods for producing tho
coatings. 4,663,234, 5-5-87, Cl. 428-422.000.

Boutros, Mansour Z. Shipboard transportation simulator and breakbu
cargo table therefor. 4,680,013, 7-14-87, Cl. 434-29.000.

Bouts, Wilhelmus J.: *See—*
  Simons, Petrus A. M. R.; and Bouts, Wilhelmus J., 4,640,879, C
  430-96.000.

Boutterin, Daniel; Bertaux, Jean-Paul; and Bader, Alain, to U.S. Phili
Corporation. Automatic method and machine for the simultaneo
testing of data processing systems. 4,639,916, 1-27-87, Cl. 371-16.00

Boutterin, Rene: *See—*
  Dubuisson, Jacques; Le Gal, Pascal; and Boutterin, Ren
  4,641,425, Cl. 29-830.000.
  Dubuisson, Jacques; Le Gal, Pascal; and Boutterin, Ren
  4,663,215, Cl. 428-209.000.

Bouttes, Jacques: *See—*
  Destuynder, Roger; Bouttes, Jacques; and Poisson-Quinton, Ph
  lippe, 4,706,902, Cl. 244-76.00C.

Boutwell, David G.: *See—*
  Langston, Mark C.; and Boutwell, David G., 4,643,119, C
  112-421.000.

Bouvaist, Jean; and Ferton, Daniel, to Societe de Transformation d
l'Aluminium Pechiney. Process for the thermal treatment of alum
num alloy sheets. 4,659,393, 4-21-87, Cl. 148-2.000.

Bouvard, Andre ; and Hulin, Jean Pierre, to Lignes Telegraphiques
Telephoniques LTT. Device for protecting optical fibers freed at th
end of a cable element. 4,697,873, 10-6-87, Cl. 350-96.230.

Bouvart, Francois. Convertible craft. 4,715,312, 12-29-87, C
114-352.000.

Bouveret, Elisabeth: *See—*
  Malbrancq, Jean-Michel; Bouveret, Elisabeth; and Anglerau
  Rene, 4,687,580, Cl. 210-651.000.

Bouverot, Noel: *See—*
  LaGarde, Robert; and Bouverot, Noel, 4,690,967, Cl. 524-266.00

Bouvier, Eugene. Three point hitch rock and root puller. 4,676,01
6-30-87, Cl. 37-2.00R.

Bouvier, Ray A.; and Hesch, Leonard T., Jr., to Harris Corporatio
Flexible solder socket for connecting leadless integrated circu
packages to a printed circuit board. 4,668,032, 5-26-87, Cl. 33
17.0CF.

Bouvot, Jean-Francois; and LeBorgne, Jose, to Valeo. Reduced pre
sure control device for moving a movable member between thre
positions. 4,638,723, 1-27-87, Cl. 92-48.000.

Bouvot, Jean-Francois, to Valeo. Control device for an actuator f
moving a member which is movable between two positions, in partic
ular for a heater or air conditioning installation for the cabin of
motor vehicle. 4,665,799, 5-19-87, Cl. 91-375.00R.

Bouvot, Jean-Francois; and LeBorgne, Jose , to Valeo. Vacuum contr
device for the displacement of an element between at least thre
positions. 4,703,684, 11-3-87, Cl. 92-48.000.

Bouwens, Jan M. M.; and Schiffelers, Hendrik E. P., to Oce-Nederlan
B.V. Holder for a stack of sheets. 4,637,598, 1-20-87, Cl. 271-3.100

Bouwens, Jan M. M.; Hooghiemstra, Ferdinand M. H. F.; and Va
Ruiten, Leonardus, to Oce-Nederland B.V. Device for collectin
sheets. 4,664,368, 5-12-87, Cl. 271-209.000.

Bouwer, Adrianus G., to U.S. Philips Corporation. Positioning devic
4,698,575, 10-6-87, Cl. 318-640.000.

Bouwer, Adrianus G.: *See—*
  Wittekoek, Stefan; and Bouwer, Adrianus G., 4,655,594, C
  356-363.000.

Bouwman, George J.: *See—*
  Cutright, Robert A.; Briggs, Mark W.; and Bouwman, George
  4,683,424, Cl. 324-158.00F.

Bouygues: *See—*
  Richard, Pierre, 4,642,830, Cl. 14-4.000.
  Richard, Pierre, 4,648,223, Cl. 52-223.00R.

Richard, Pierre. 4,653,959, Cl. 405-195.000.

Richard, Pierre, 4,694,622, Cl. 52-223.00R.

Bouyoucos, John V.; and Durfee, David W., to Hydroacoustics Inc. Stress relief and edge sealing of welded joints in plastics parts. 4,663,206, 5-5-87, Cl. 428-57.000.

Bouyoucos, John V., to Hydroacoustics Inc. Hydroacoustic apparatus. 4,695,987, 9-22-87, Cl. 367-143.000.

Bova, Ignatius N.; Kalkbrenner, Ralph W.; and Leumann, Hans E., to Westinghouse Electric Corp. Apparatus for storage, retrieval and deployment of drag gages used in fuel assembly inspection. 4,699,750, 10-13-87, Cl. 376-245.000.

Bove, Alfred A.: *See—*

Lazarow, Normand H.; and Bove, Alfred A., 4,709,703, Cl. 128-654.000.

Bove, Bertrand, to Advanced Micro Electronic Components and Systems. Capacitive weighing device. 4,679,643, 7-14-87, Cl. 177-210.00C.

Bove, Victor M., Jr.: *See—*

Lippman, Andrew B.; Bove, Victor M., Jr.; and Wiesner, Jerome B., 4,673,981, Cl. 358-160.000.

Bovenkerk, Harold P.: *See—*

Lavens, Thomas R.; Corrigan, Francis R.; Shott, Richard L.; and Bovenkerk, Harold P., 4,673,414, Cl. 51-293.000.

Bovi, Robert D.; and Farrington, Richard I., to Coleco Industries, Inc. Figure toy with simulated leg action and pivoted striking element. 4,674,989, 6-23-87, Cl. 446-336.000.

Bovin, Christer: *See—*

af Ekenstam, Bo T.; and Bovin, Christer, 4,695,576, Cl. 514-330.000.

Bovino, Lawrence J., to United States of America, Army. Multiple gap optically activated switch. 4,691,111, 9-1-87, Cl. 250-551.000.

Bovone, Enrico. Optical-probe control device for drying ovens for mirror protective paint. 4,633,594, 1-6-87, Cl. 34-48.000.

Bovone, Vittorio. Device for automatically adjusting to the glass sheet thickness in the production of mirrors, double glazing and stratified glass. 4,667,419, 5-26-87, Cl. 34-148.000.

Bow Valley Industries Ltd.: *See—*

Ferguson, Barry W., 4,648,749, Cl. 405-205.000.

Bow Valley Resource Services Ltd.: *See—*

Ferguson, Barry W., 4,648,749, Cl. 405-205.000.

Bowald, Staffan F., to Swedish Graft Technique AB. Implant lens and method and apparatus for its production. 4,713,072, 12-15-87, Cl. 623-6.000.

Boward, Willard L., Jr.: *See—*

Biolchini, Robert J.; Boward, Willard L., Jr.; and Wang, Kuei-Hsiung, 4,687,648, Cl. 423-242.000.

Bowbin, John F.: *See—*

Liu, Ming; Bowbin, John F.; Ghislain, Raymond L.; and McDaniel, Stephen K., 4,635,536, Cl. 92-24.000.

Bowden, Donald R., to Bowden Industries, Inc. Agitation parts degreaser. 4,651,762, 3-24-87, Cl. 134-111.000.

Bowden, Edgar A.: *See—*

Givens, Wyatt W.; and Bowden, Edgar A., 4,686,477, Cl. 324-366.000.

Bowden Industries, Inc.: *See—*

Bowden, Donald R., 4,651,762, Cl. 134-111.000.

Bowden, J. Claude. Dental floss holding tool. 4,655,234, 4-7-87, Cl. 132-92.00A.

Bowden, John E.; Hook, Roy E.; and Miller, E. Craig, to Wendy's International, Inc. Griddle mounted hot dog turner with lift off detachable drive unit. 4,633,772, 1-6-87, Cl. 99-332.000.

Bowden, Murrae J. S.; and Gozdz, Antoni S., to Bell Communications Research, Inc. Electron beam sensitive positive resist comprising the polymerization product of an ω-alkenyltrimethyl silane monomer with sulfur dioxide. 4,657,841, 4-14-87, Cl. 430-270.000.

Bowden, Paul, to Data General Corporation. Encachment apparatus using multiple frames and responding to a key to obtain data therefrom. 4,652,996, 3-24-87, Cl. 364-200.000.

Bowden, Paul: *See—*

Pilat, John F.; Jones, Thomas M.; Nealon, James T.; Davidian, Gary; and Bowden, Paul, 4,670,839, Cl. 364-200.000.

Bowden, Robert L.: *See—*

Wang, Chun S.; and Bowden, Robert L., 4,672,103, Cl. 528-98.000.

Wang, Chun S.; Chen, Wuu N.; Bowden, Robert L.; and Berman, Jody R., 4,684,700, Cl. 525-481.000.

Wang, Chun S.; Bowden, Robert L.; and Chen, Wuu N., 4,684,701, Cl. 525-507.000.

Bowden, Roy D., to Imperial Chemical Industries PLC. Chemical process. 4,638,091, 1-20-87, Cl. 564-473.000.

Bowden, Russell W., to C. R. Bard, Inc. Biliary stent introducer. 4,699,611, 10-13-87, Cl. 604-51.000.

Bowden, Wade R., Jr.; and Rushansky, Yuliy. Electrical connector device. 4,688,873, 8-25-87, Cl. 439-462.000.

Bowditch, Philip N., to Charles Stark Draper Laboratory, Inc., The. Method and patterns for making flat plane seamed garments. 4,675,253, 6-23-87, Cl. 428-542.800.

Bowditch, W. Raymond; and Rybalka, Borys, to Norwood Industries, Inc. Hydrophilic foam. 4,644,018, 2-17-87, Cl. 521-130.000.

Bowdy, Fredrick E.; Glasenapp, Rudi K. H.; and Ridgway, Glen E., to Boeing Company, The. Nose wheel water spray deflector enabling wheel and tire changes without deflector removal. 4,681,285, 7-21-87, Cl. 244-103.00R.

Bowe, Michael J.; Oruh, Samuel N.; and Singh, Jaswant, to United Kingdom Atomic Energy Authority. Fluidic contactors. 4,693,822, 9-15-87, Cl. 210-255.000.

Bowe, Woodford A.: *See—*

Laragione, Robert; Lurcott, Steven M.; Bowe, Woodford A.; and Levy, Eugene J., 4,638,444, Cl. 364-510.000.

Bowen, Chester O., to Phillips Petroleum Company. Reducing the necessary pressure drop through slide valves. 4,706,697, 11-17-87, Cl. 137-13.000.

Bowen, Christine M.: *See—*

Evans, Thomas E.; and Bowen, Christine M., 4,680,211, Cl. 428-65.000.

Bowen, Harry E., to H. Bowen Company, Inc. Step assembly. 4,655,318, 4-7-87, Cl. 182-90.000.

Bowen, Henry D.: *See—*

Law, S. Edward; and Bowen, Henry D., 4,685,620, Cl. 239-3.000.

Bowen, Howard; Henderson, David; and Olson, Carl, to Research Technology International. Film inspection system. 4,652,124, 3-24-87, Cl. 356-237.000.

Bowen, Howard; Henderson, David; and Olson, Carl, to Research Technology International. Film inspection system. 4,652,125, 3-24-87, Cl. 356-237.000.

Bowen, Howard; Henderson, David; and Olson, Carl, to Research Technology International. Optical motion picture film inspection system. 4,687,943, 8-18-87, Cl. 250-570.000.

Bowen, James H.: *See—*

Porter, David R.; Bowen, James H.; and Holland, John M., 4,694,504, Cl. 455-608.000.

Porter, David R.; Bowen, James H.; and Holland, John M., 4,713,841, Cl. 455-608.000.

Bowen, Leslie J.: *See—*

Bandyopadhyay, Gautam; French, Kenneth W.; Bowen, Leslie J.; and Neil, Jeffrey T., 4,708,838, Cl. 264-63.000.

Bowen, Paul D.: *See—*

Conley, John M.; and Bowen, Paul D., 4,641,673, Cl. 134-138.000.

Bowen, Rafael L., to American Dental Association Health Foundation. Simplified method for obtaining strong adhesive bonding of composites to dentin, enamel and other substrates. 4,659,751, 4-21-87, Cl. 523-116.000.

Bowen, Robert F.; Heath, Michael C.; and Martel, Thomas J., to Raytheon Company. Microwave cake and bread maker. 4,663,506, 5-5-87, Cl. 219-10.55E.

Bowen, Robert L. Pivoted track and slot car amusement device or game. 4,673,182, 6-16-87, Cl. 273-110.000.

Bowen, Stephen A.: *See—*

August, Melvin C.; Bowen, Stephen A.; and Williams, John T., 4,700,996, Cl. 439-268.000.

Bowen, Terry P., to AMP Incorporated. Undercarpet cabling fixture. 4,665,280, 5-12-87, Cl. 174-71.00R.

Bowen, Terry P.; and Glover, Douglas W., to AMP Incorporated. Fiber optic connector. 4,676,588, 6-30-87, Cl. 350-96.210.

Bowen, Terry P.; Glover, Douglas W.; Hoover, Charles D.; Huber, John H.; and Schaffer, Ronald R., to AMP Incorporated. Electrical and fiber optic connector assembly. 4,678,264, 7-7-87, Cl. 350-96.200.

Bowen Tools, Inc.: *See—*

Bishop, Thomas R.; Peil, Archie W.; and Foreman, Arnal B., Jr., 4,648,447, Cl. 166-173.000.

Bishop, Thomas R.; Kovar, Wayne A.; and Roque, Clyde D., 4,706,745, Cl. 166-98.000.

Poe, Frank E., Jr.; Schwertner, Dan R.; Dunn, Cooper L.; and Whitby, Melvyn F., 4,715,456, Cl. 175-423.000.

Bower, Allen M.; and Roberts, Robert D., to Emco Wheaton, Inc. Magnetically actuated vapor valve. 4,649,970, 3-17-87, Cl. 141-302.000.

Bower, Allen M.; Butterfield, Eric J.; and Roberts, Robert D., to Emco Wheaton, Inc. Vapor recovery nozzle. 4,697,624, 10-6-87, Cl. 141-208.000.

Bower, Charles R.; and Fowler, Frank L., to United Technologies Corporation. Load sharing for engine nacelle. 4,658,579, 4-21-87, Cl. 60-226.100.

Bower, Frank M., to Exxon Production Research Company. Directional acoustic logger apparatus and method. 4,703,459, 10-27-87, Cl. 367-25.000.

Bower, Hadley H., Jr.; and Kulka, Ernest F., to AT&T Technologies, Inc. Apparatus for cutting and stuffing wires into connector contacts. 4,642,873, 2-17-87, Cl. 29-566.300.

Bower, Terry F.; Randlett, M. Ronald; and Shinopulos, George, to Kennecott Corporation. Method and apparatus for the continuous production of strip using oscillating mold assembly. 4,683,938, 8-4-87, Cl. 164-413.000.

Bowering, Robert H.: *See—*

Clarke, Aubrey R.; Martin, Colin L.; and Bowering, Robert H., 4,692,350, Cl. 427-138.000.

Bowers, Cecil W.: *See—*

Cadwell, George H., Jr.; Pittman, Clarence B.; and Bowers, Cecil W., 4,678,487, Cl. 55-385.00A.

Bowers, Cyril Y.: *See—*

Folkers, Karl; Jie-Cheng, Xu; and Bowers, Cyril Y., 4,642,332, Cl. 530-313.000.

Folkers, Karl; Jie-Cheng, Xu; and Bowers, Cyril Y., 4,656,247, Cl. 530-313.000.

Bowers, Daniel W.; and Wisser, Donald L., to United Technologies Automotive, Inc. Cloth covered pinch welt and method for making same. 4,656,086, 4-7-87, Cl. 428-309.900.

Bowers, Derek F., to Precision Monolithics, Inc. FET output drive circuit with parasitic transistor inhibition. 4,675,561, 6-23-87, Cl. 307-570.000.

- Bowers, Derek F.; and Tasdighi, Ali, to Precision Monolithics, Inc. CMOS temperature insensitive voltage reference. 4,677,369, 6-30-87, Cl. 323-314.000.
- Bowers, Geoffrey, to Seasonmakers (Australia) Pty. Limited. Stitched woodwool mat. 4,635,576, 1-13-87, Cl. 112-403.000.
- Bowers, George W., Jr.: *See—*
  - Gabor, Andrew; Dunfield, John C.; Bowers, George W., Jr.; and Crystal, Richard G., 4,678,355, Cl. 400-389.000.
- Bowers, I. L. Training and display jog cart. 4,667,973, 5-26-87, Cl. 280-63.000.
- Bowers, John E., to AT&T Bell Laboratories. High speed intensity modulated light source. 4,638,483, 1-20-87, Cl. 372-26.000.
- Bowers, John E.; and Kino, Gordon S., to Leland Stanford Junior University, The Board of Trustees of the. Fiber optic sensor for detecting very small displacements of a surface. 4,652,744, 3-24-87, Cl. 250-227.000.
- Bowers, John E.: *See—*
  - Shaw, Herbert J.; Bowers, John E.; and Newton, Steven A., 4,676,585, Cl. 350-96.150.
- Bowers, Mark C.: *See—*
  - Schneider, John M.; Piatt, Michael J.; Brown, Mark E.; and Bowers, Mark C., 4,638,325, Cl. 346-1.100.
- Bowers, Mark L.; Druy, Mark A.; Durfor, Charles N.; Smith, H. Gilbert; Tripathy, Sukant K.; and Yenser, Barbara A., to GTE Laboratories Incorporated. Covalently coupled cofactor modified electrodes and methods of synthesis and use. 4,704,193, 11-3-87, Cl. 204-1.00T.
- Bowers, R. H. Triple view mirror system. 4,701,036, 10-20-87, Cl. 350-622.000.
- Bowers, Thomas E.; Frey, Alan E.; Kerr, Howard A.; Russell, Larry A.; and Stone, Roger E., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Method and apparatus for establishing a wideband communication facility through a communication network having narrow bandwidth channels. 4,704,716, 11-3-87, Cl. 370-58.000.
- Bowers, Walter B. Piston for internal combustion engines and the like. 4,714,008, 12-22-87, Cl. 92-219.000.
- Bowers, William S., to Cornell Research Foundation, Inc. Anti-juvenile hormones. 4,656,189, 4-7-87, Cl. 514-456.000.
- Bowersox, Thomas E., to Griffin Environmental Company, Inc. Dust separator. 4,655,806, 4-7-87, Cl. 55-341.0NT.
- Bowes, Donald, Allen, Peter N.; and Blake, William, to Coherent, Inc. Laser. 4,661,958, 4-28-87, Cl. 372-34.000.
- Bowie, Betty A.; Newman, David J.; and Shearer, Marcia C., to SmithKline Beckman Corporation. Pure cultures of *Kibdelsporangium aridum* Shearer gen. nov., sp. nov. ATCC 39323 and mutants thereof. 4,672,036, 6-9-87, Cl. 435-254.000.
- Bowker, Christopher D., to Tegal Corporation. Selective plasma etching during formation of integrated circuitry. 4,687,543, 8-18-87, Cl. 156-643.000.
- Bowker, Thomas K. Rope descending device. 4,678,059, 7-7-87, Cl. 182-5.000.
- Bowlds, Harvey F., to Motorola, Inc. Multiplexing arrangement with fast framing. 4,651,319, 3-17-87, Cl. 370-112.000.
- Bowler, Jean; and Tait, Brian S., to Imperial Chemical Industries PLC. Steroid derivatives. 4,659,516, 4-21-87, Cl. 260-397.500.
- Bowler, Peter T., to Feco Engineered Systems, Inc. Wet vacuum system for two piece can lines. 4,670,935, 6-9-87, Cl. 15-306.00B.
- Bowles, Bobby K.: *See—*
  - Cole, R. Clay; and Bowles, Bobby K., 4,690,961, Cl. 523-440.000.
- Bowles Fluidics Corporation: *See—*
  - Bray, Harry C., Jr., 4,645,126, Cl. 239-11.000.
  - Stouffer, Ronald D.; and Boone, Otho, 4,644,854, Cl. 98-2.090.
  - Stouffer, Ronald D., 4,672,886, Cl. 98-2.090.
  - Stouffer, Ronald D.; and Sulsky, Paul L., 4,686,890, Cl. 98-2.000.
  - Stouffer, Ronald D., 4,694,992, Cl. 239-265.230.
  - Stouffer, Ronald D., and Sharkitt, Patrick T., 4,709,622, Cl. 98-2.000.
- Bowles, James B.; White, Marshall, Jr.; Puntener, Alois; Adam, Jean-Marie; and Loew, Peter, to Ciba-Geigy Corporation. Process for the continuous trichromatic dyeing of synthetic polyamide materials including a blue anthraquinone reactive dye. 4,652,269, 3-24-87, Cl. 8-641.000.
- Bowles, James B.; White, Marshall, Jr.; Puentener, Alois; Adam, Jean-Marie; and Loew, Peter, to Ciba-Geigy Corporation. Process for dyeing synthetic polyamide materials with fibre-reactive anthraquinone dyes. 4,693,727, 9-15-87, Cl. 8-549.000.
- Bowles, Myron A., to Bell & Howell Company. Article turning assembly. 4,705,157, 11-10-87, Cl. 198-405.000.
- Bowles, Patrick J.; Garrett, Lloyd W.; Howard, John V.; and Heil, Robert F., Sr., to General Electric Company. Molding apparatus. 4,643,663, 2-17-87, Cl. 425-406.000.
- Bowling Green State University: *See—*
  - Saffran, Murray; and Neckers, Douglas C., 4,663,308, Cl. 514-3.000.
- Bowling, Joseph E.; Carpenter, James H.; and Rowe, Russell L., to Kennecott Corporation. Sand lump crushing device. 4,637,559, 1-20-87, Cl. 241-94.000.
- Bowman, Bonita F.: *See—*
  - Lumley, Edward M.; and Bowman, Bonita F., 4,636,993, Cl. 367-65.000.
- Bowman, Charles H.; Farringer, Jeffrey A.; Garwin, Richard L.; Greene, Larry L.; Levine, James L.; Miles, Anthony W.; and Vorhees, Kevin H., to International Business Machines Corporation. Touch screen mounting assembly. 4,675,569, 6-23-87, Cl. 310-328.000.
- Bowman, David. Poster mounting system. 4,703,569, 11-3-87, Cl. 40-10.00R.
- Bowman, David J.: *See—*
  - Gordon, Alan J.; Billington, Donald G.; Evans, Robert; and Bowman, David J., 4,705,630, Cl. 210-361.000.
- Bowman, Dennis G., to Dresser Industries, Inc. Sealing means for a cylindrical pump case or the like. 4,648,789, 3-10-87, Cl. 415-110.000.
- Bowman, Donald E., to Mobil Oil Corporation. Shaft alignment method and apparatus. 4,709,485, 12-1-87, Cl. 33-228.000.
- Bowman, Gary K., to Ingenuity Unlimited, Inc. Septic tank sludge level indicator. 4,715,966, 12-29-87, Cl. 210-800.000.
- Bowman, Gaylord L.; and DePhillipo, Frank J., to United States of America, Air Force. Special purpose bellows assembly. 4,654,469, 3-31-87, Cl. 174-35.00C.
- Bowman Gray School of Medicine, Wake Forest University: *See—*
  - Chilton, Henry; and Dickson, Lester, 4,706,683, Cl. 128-654.000.
- Bowman, H. David: *See—*
  - Dabringhaus, Volker; Dietz, Gunter, Wegel, Peter; Bowman, H. David; Korber, Jurgen; and Seidl, Horst, 4,676,544, Cl. 296-37.900.
- Bowman, Hal K., to Zema Corporation. Pet shampoo. 4,668,434, 5-26-87, Cl. 252-522.00A.
- Bowman, John H., Jr. Overhead conveyor cleaning apparatus. 4,678,075, 7-7-87, Cl. 198-496.000.
- Bowman-Jones, Gordon, to Endless Energy, Inc. Electro mechanical switch having remotely controlled off position. 4,639,612, 1-27-87, Cl. 307-132.00E.
- Bowman, Lawrence S. Handy-cap pick-up cover. 4,709,956, 12-1-87, Cl. 296-100.000.
- Bowman, Lyle M.: *See—*
  - Bauman, Robert E.; Chandrasekaran, S. Kumar; Lin, Shaow B.; Bowman, Lyle M.; and Harvey, Thomas B., III, 4,666,249, Cl. 351-160.00H.
  - Lin, Shaow B.; Bowman, Lyle M.; Chandrasekaran, S. Kumar; and Harvey, Thomas B., III, 4,687,816, Cl. 525-279.000.
- Bowman, Norman E., to Don Gilbert Industries, Inc. Emergency sign. 4,682,147, 7-21-87, Cl. 340-286.00R.
- Bowman, Richard P., to Appleton Papers Inc. Capsule manufacture. 4,675,249, 6-23-87, Cl. 428-402.210.
- Bowman, Robert G., to Dow Chemical Company, The. Method of preparing supported catalysts. 4,689,316, 8-25-87, Cl. 502-243.000.
- Bowman, Robert L.: *See—*
  - Bernhardt, Richard P.; and Bowman, Robert L., 4,711,252, Cl. 130-27.00S.
- Bowman, Timothy S., to Butler Manufacturing Company. Trench ducts. 4,637,185, 1-20-87, Cl. 52-221.000.
- Bowman, Wayne A.: *See—*
  - Vanier, Noel R.; Lum, Kin K.; and Bowman, Wayne A., 4,700,208, Cl. 503-227.000.
  - Vanier, Noel R.; Lum, Kin K.; and Bowman, Wayne A., 4,716,144, Cl. 503-227.000.
- Bowman, Wayne C.; Magalhaes, Frank M.; Suiter, Weyman B., Jr.; and Ziesse, Norman G., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Resonant rectifier circuit. 4,685,041, 8-4-87, Cl. 363-40.000.
- Bowman, William E., to General Motors Corporation. Switching circuit utilizing a field effect transistor. 4,636,705, 1-13-87, Cl. 322-28.000.
- Bowman, William E.; Voss, Richard J.; and Kirk, Thomas E., to General Motors Corporation. Generator voltage regulating system. 4,636,706, 1-13-87, Cl. 322-28.000.
- Bowsher, Glynne T., to Lucas Industries Public Limited Company. Pedal device. 4,695,819, 9-22-87, Cl. 338-153.000.
- Bowsher, John M., to Minolta Camera Kabushiki Kaisha. Automatic hand-held photographic light meters. 4,636,052, 1-13-87, Cl. 354-410.000.
- Bowsher, Ronald R.; and Henry, David P., to Eli Lilly and Company. Phenylethanolamine N-methyltransferase based radioenzymatic assay for norephinephrine. 4,649,107, 3-10-87, Cl. 435-15.000.
- Bowsky, Benjamin; Honkomp, Glenn A.; Burrows, Larry G.; and Wilson, Edward E., to Emerson Electric Co. Hermetic terminal assembly and method of manufacturing same. 4,702,976, 10-27-87, Cl. 429-181.000.
- Bowsky, Benjamin; Honkomp, Glenn A.; Burrows, Larry G.; and Wilson, Edward E., to Emerson Electric Co. Terminal pin and end closure structure for chamber defining housing of hermetic terminal assembly and method of manufacture. 4,707,424, 11-17-87, Cl. 429-181.000.
- Bowthorpe-Hellermann Limited: *See—*
  - Avison, Gerald; Teape, John W.; and Willer, Paul H. F., 4,640,320, Cl. 140-93.00A.
  - Walker, John G., 4,640,319, Cl. 140-93.00A.
- Bowyer, Larry D.: *See—*
  - Bauer, David L.; Bowyer, Larry D.; Ruby, David M.; and Windhausen, Richard A., 4,707,694, Cl. 340-825.520.
- Bowyer, William H.; Crocker, Robert L.; Hansford, Christopher M.; Parker, Leslie K.; and Gray, Nigel, to Viragate Limited. Target apparatus including transmitting/receiving dart. 4,678,194, 7-7-87, Cl. 273-373.000.
- Box, Clyde O. Trailer suspension system. 4,679,819, 7-14-87, Cl. 280-680.000.
- Box, Jeffrey L.: *See—*
  - Johnson, Charles B.; Box, Jeffrey L.; and Hildebrand, David B., 4,685,104, Cl. 370-67.000.
- Box, Joe G., to Milbar Corporation. Pliers. 4,635,510, 1-13-87, Cl. 81-319.000.
- Box, Richard B.: *See—*
  - Sullivan, James B.; and Box, Richard B., 4,694,589, Cl. 36-44.000

ell, Timothy G.; Bardsley, Frank B.; and Stoddart, David E., to earhart Tesel Limited. Downhole tools. 4,715,440, 12-29-87, Cl. 6-100.000.

enhorn, Burton, to Charles Stark Draper Laboratory, Inc., The. ibratory digital integrating accelerometer. 4,699,006, 10-13-87, Cl. 3-517.0AV.

hoorn, Gosse; Klazinga, Aan H.; and Velthuis, Otto M., to Shell Oil ompany. Ethylene oxide catalyst. 4,701,437, 10-20-87, Cl. 02-348.000.

man, Raymond L.; Goldsmith, Shmuel; Brosh, Nissan; Shalev, haul; and Yaloz, Hanan, to Ramot University Authority for Applied esearch and Industrial Devolopment Ltd. Method and apparatus for rface-treating workpieces. 4,645,895, 2-24-87, Cl. 219-76.130.

us, Louis: *See*—

della Faille d'Huysse, Gaetan; and Boxus, Louis, 4,645,612, Cl. 252-70.000.

, Dan D.; and Frederick, Harold H. System for recovering a hung arrow. 4,704,612, 11-3-87, Cl. 342-386.000.

, Juergen: *See*—

Watzke, Franz; Lange, Gerhard; and Boy, Juergen, 4,665,337, Cl. 313-231.110.

acigiller, Ziya G.: *See*—

Doluca, Tunc; and Boyacigiller, Ziya G., 4,641,129, Cl. 340-347.0AD.

adjieff, George I., to Varco International, Inc. Well pipe handling achine. 4,696,207, 9-29-87, Cl. 81-57.340.

adjieff, George I., to Varco International, Inc. Well pipe handling achine. 4,709,766, 12-1-87, Cl. 175-52.000.

ce, Columbus O. L.: *See*—

Carroll, John O.; Boyce, Columbus O. L.; Wong, Theodore M.; and Starace, Charles A., 4,654,216, Cl. 426-20.000.

ce, Donald A., to Fluid Controls, Inc. Adjustable flow regulating alve. 4,669,495, 6-2-87, Cl. 137-117.000.

ce, Elvin L., to Professional Tape Converters, Inc. Filter mask. 688,566, 8-25-87, Cl. 128-206.190.

ce, Jay: *See*—

Tschernenko, Stanley A.; Crane, Lawrence A.; and Boyce, Jay, 4,636,935, Cl. 364-140.000.

ce, Steven T.; and Ham, Richard G., to University Patents, Inc. rocess and defined medium for growth of human epidermal keratiocyte cells. 4,673,649, 6-16-87, Cl. 435-240.000.

d, Charles H.: *See*—

Kimbrell, James E.; Boyd, Charles H.; Altman, David A.; Sherwood, Donald G.; and Bost, Glenn E., 4,659,539, Cl. 376-377.000.

yd, Clarence J. Portable shelter. 4,672,779, 6-16-87, Cl. 52-79.400.

d, Dana M.; Colombo, Edward A.; and Lashway, William H., to obil Oil Corporation. High performance three layer polyolefin film. 657,811, 4-14-87, Cl. 428-318.600.

d, Dana M.: *See*—

Benoit, Gordon L.; and Boyd, Dana M., 4,681,721, Cl. 264-169.000.

d, David C., to Corning Glass Works. Method of manufacturing a olor TV focusing mask. 4,659,317, 4-21-87, Cl. 445-37.000.

yd, David T. Theft-resistant automobile side cover. 4,639,027, -27-87, Cl. 293-128.000.

yd, Dennis. Wave-retarding waterbed mattress. 4,658,453, 4-21-87, l. 5-450.000.

yd, Gerald D., to Energy Technologies Corp. Fluorescent lamp allast. 4,654,563, 3-31-87, Cl. 315-244.000.

yd, Harper, to Boyd's Bit Service, Inc. Borehole drill pipe continuous side entry or exit apparatus and method. 4,681,162, 7-21-87, Cl. 66-242.000.

yd, Jack D.; and Shimp, David A., to BASF Corporation. Bis-maleimide resin systems and structural composites prepared therefrom. 644,039, 2-17-87, Cl. 525-422.000.

yd, James B.; and Abell, Kathleen A. Automotive seat belt assembly or encouraging passenger use. 4,673,195, 6-16-87, Cl. 280-801.000.

yd, John A. Cornice assembly. 4,644,991, 2-24-87, Cl. 160-38.000.

yd, John H., Jr.; and Muller, Alexander, to General Electric Company. Control system for an electronically commutated motor. 636,936, 1-13-87, Cl. 364-148.000.

yd, John H., Jr., to General Electric Company. Hermetic compressor unit and stationary assembly. 4,642,497, 2-10-87, Cl. 310-68.00R.

yd, John H., Jr.; and Muller, Alexander, to General Electric Company. Control system for an electronically commutated motor, method of controlling such, method of controlling an electronically commutated motor and laundry apparatus. 4,642,536, 2-10-87, Cl. 318-254.000.

yd, John H., Jr., to General Electric Company. Method of assembling a stationary assembly for a dynamoelectric machine. 4,685,201, 8-11-87, Cl. 29-596.000.

yd, Richard M., to Quadion Corporation. Multi-lobed rectangular sealing ring. 4,693,343, 9-15-87, Cl. 188-322.170.

yd, Robert L.; Krukowski, Richard; and Gezari, Daniel Y., to Biodex Corporation. Muscle exercise and rehabilitation apparatus. 4,691,694, 9-8-87, Cl. 128-25.00R.

oyd, Robert W.: *See*—

Hartman, William F.; and Boyd, Robert W., 4,669,084, Cl. 371-43.000.

Pelchat, Guy M.; and Boyd, Robert W., 4,653,053, Cl. 371-43.000.

oyden, James H.: *See*—

Neukermans, Armand P.; Boyden, James H.; and Garrettson, Garrett A., 4,654,581, Cl. 324-61.00R.

oyden, Robert W. Fan folded printer output collector. 4,696,591, 9-29-87, Cl. 400-613.200.

oyd's Bit Service, Inc.: *See*—

Boyd, Harper, 4,681,162, Cl. 166-242.000.

Boyer, Alvin C.: *See*—

Holloway, Eugene L.; and Boyer, Alvin C., 4,665,958, Cl. 141-106.000.

Boyer, Elton W. Ambulatory vehicle carrier. 4,695,218, 9-22-87, Cl. 414-462.000.

Boyer, Fred S.; and Boyer, Wayne A. Locking closure. 4,702,388, 10-27-87, Cl. 220-305.000.

Boyer, James A.; Bridgewater, Bobbie D.; Warner, Donald C.; and Sturdivant, Jerry L., to General Motors Corporation. Integrated direct ignition module. 4,706,639, 11-17-87, Cl. 123-647.000.

Boyer, John L. Process and apparatus for producing nuclear fusion energy. 4,650,630, 3-17-87, Cl. 376-107.000.

Boyer, Keith: *See*—

Robinson, C. Paul; Jensen, Reed J.; Cotter, Theodore P.; Greiner, Norman R.; and Boyer, Keith, 4,661,221, Cl. 204-157.220.

Boyer, Kirk A.; and Imai, Tesuo, to Yamaha Hatsudoki Kabushiki Kaisha. Snowmobile. 4,633,964, 1-6-87, Cl. 180-190.000.

Boyer, Nicodemus E., to PPG Industries, Inc. Polymeric compositions containing polyhalophthalimidoalkyl-functional carbonates. 4,666,958, 5-19-87, Cl. 524-94.000.

Boyer, Robert D.: *See*—

Provost, Lawrence A.; and Boyer, Robert D., 4,642,900, Cl. 33-169.00B.

Boyer, Robert E. Orbital electrical power and signal generator mountable on a rotatable body. 4,657,289, 4-14-87, Cl. 290-1.00R.

Boyer, Wayne A.: *See*—

Boyer, Fred S.; and Boyer, Wayne A., 4,702,388, Cl. 220-305.000.

Boyers, Charles L.; and Finlayson, John W., to Vetco Gray Inc. Method of taking an impression with an internal bore impression tool. 4,659,530, 4-21-87, Cl. 264-315.000.

Boyes, Russell S.: *See*—

Moran, James J.; and Boyes, Russell S., 4,683,152, Cl. 427-428.000.

Boyesen, Eyvind, to Performance Industries, Inc. Reed valves for internal combustion engines. 4,696,263, 9-29-87, Cl. 123-65.00V.

Boykin, Richard C. Vent window securing device for vans and trucks. 4,695,081, 9-22-87, Cl. 292-96.000.

Boykin, Thurman L.: *See*—

Ross, Lent A., III; and Boykin, Thurman L., 4,660,337, Cl. 52-192.000.

Boyle, David E.; and Chrise, James R., to Westinghouse Electric Corp. Quick release guide sleeve assembly. 4,637,914, 1-20-87, Cl. 376-353.000.

Boyle, David E.: *See*—

Fensterer, Howard F.; Klassen, William E.; Veronesi, Luciano; Boyle, David E.; and Salton, Robert B., 4,661,306, Cl. 376-209.000.

Tower, Stephen N.; Braun, Howard E.; Boyle, David E.; and Salton, Robert B., 4,693,862, Cl. 376-209.000.

Boyle, David H., to International Business Machines Corporation. High speed counter. 4,637,038, 1-13-87, Cl. 377-117.000.

Boyle, Gerald C., to AT&T Bell Laboratories. Time-ordered data base. 4,646,229, 2-24-87, Cl. 364-200.000.

Boyle, Gerard H.: *See*—

Goebel, Franz; Harris, Peter B.; Boyle, Gerard H.; and Freeman, Roger K., 4,672,011, Cl. 429-158.000.

Harris, Peter B.; Goebel, Franz; Boyle, Gerard H.; and McHugh, William T., 4,668,592, Cl. 429-116.000.

Boyle, John T. A.; and Todd, Richard S., to John Wyeth & Brother Limited. 4-(cinnolinylamino or quinazolinylamino)benzenesulphonamides and intermediates therefor. 4,640,920, 2-3-87, Cl. 514-248.000.

Boyle, John T. A., to John Wyeth & Brother Limited. Benzenesulphonamide derivatives. 4,684,657, 8-4-87, Cl. 514-313.000.

Boyle, John T. A.; and Todd, Richard S., to American Home Products Corporation. 4-Quinolinylamino-N-[pyrrolidinyl or piperdinyl)alkyl]-benzenesulphonamides. 4,695,574, 9-22-87, Cl. 514-313.000.

Boyle, Michael, to Arabella Limited. Pool construction and panel support member. 4,641,465, 2-10-87, Cl. 52-127.100.

Boyle, Raymond F., to Westinghouse Electric Corp. Nuclear fuel rod with burnable plate and pellet-clad interaction fix. 4,636,352, 1-13-87, Cl. 376-419.000.

Boyle, Raymond F.; Miller, Richard S.; and Olson, Carl A., to Westinghouse Electric Corp. Water tubes arranged in cross-like pattern in a fuel assembly. 4,652,426, 3-24-87, Cl. 376-352.000.

Boyle, Raymond F.; and Foster, John P., to Westinghouse Electric Corp. Zirconium alloy fuel cladding resistant to PCI crack propagation. 4,675,153, 6-23-87, Cl. 376-416.000.

Boyle, Raymond F.: *See*—

DeMario, Edmund E.; Boyle, Raymond F.; and Kuchirka, Peter J., 4,692,302, Cl. 376-439.000.

Ferrari, Harry M.; Boyle, Raymond F.; and Kingsbury, Fred D., Jr., 4,664,881, Cl. 376-410.000.

Boyle, William J., Jr.; Mares, Frank; and Wallo, Andrea M., to Allied Corporation. Selective conversion of acrylonitrile into 1,4-dicyano-1-butene catalyzed by polymer-bound alkyl diarylphosphinites. 4,661,615, 4-28-87, Cl. 558-363.000.

Boyle, William J., Jr.; Mares, Frank; and Corbo, Andrea M., to Allied Corporation. Polymer-bound alkyl diarylphosphinite catalyst compositions and processes for making same. 4,710,545, 12-1-87, Cl. 525-340.000.

Boyles, Paul W. Arterial catheter means. 4,705,507, 11-10-87, Cl. 604-101.000.

Boyles, William C.; Hagge, Douglas R.; and Johnston, Clifford V., to Cardinal Industries, Inc. Torsion-absorbing highway semitrailer. 4,640,528, 2-3-87, Cl. 280-789.000.

Boyne, Gail E.: *See—*

Hinch, Henry H.; Boyne, Gail E.; Daniels, David L.; and Kullmann, Eugene V., 4,710,946, Cl. 378-62.000.

Boynton, Kenneth G., to Hollis Automation, Inc. Mass soldering system providing an oscillating air blast. 4,664,308, 5-12-87, Cl. 228-180.100.

Boynton, Sharon L., to Solara, Inc. Solar heat regulator. 4,655,195, 4-7-87, Cl. 126-429.000.

Boyse, Edward A.: *See—*

Safai, Bijan; Boyse, Edward A.; and Shen, Fung-Win, 4,649,115, Cl. 435-240.000.

Boytor, Samuel G.; and Jurs, Jeffry W., to F. J. Littell Machine Company. Machine control system. 4,697,231, 9-29-87, Cl. 364-188.000.

Bozai, Mohammed Z., to Peabody Engineering Corporation. Smokeless flare gas burner. 4,643,669, 2-17-87, Cl. 431-202.000.

Boze, Ronald A., to Process Development, Inc. Downflow filter with high velocity backflush. 4,668,405, 5-26-87, Cl. 210-795.000.

Boze, Ronald A.; and Warning, Theodore A., to L'eau Claire Systems, Inc. Process and apparatus for filtering fluids. 4,704,210, 11-3-87, Cl. 210-778.000.

Bozec, Rene, to Alsthom. Connection between a steam turbine and a condenser. 4,653,277, 3-31-87, Cl. 60-692.000.

Bozek, John W. Cross bow. 4,649,891, 3-17-87, Cl. 124-25.000.

Bozek, John W. Cross bow with cocking mechanism. 4,649,892, 3-17-87, Cl. 124-25.000.

Bozek, John W. Mechanical projector with variable leverage arrangement. 4,651,707, 3-24-87, Cl. 124-17.000.

Bozek, John W. Archery bow with draw force multiplying attachments. 4,672,943, 6-16-87, Cl. 124-23.00R.

Bozenmayer, Kurt: *See—*

Davis, Thomas A.; Bozenmayer, Kurt; and Butterworth, Donald J., 4,707,257, Cl. 210-274.000.

Bozinovich, Matthew J.; and Fontana, Robert M., to Kraft, Inc. Rigid lid system. 4,702,389, 10-27-87, Cl. 220-306.000.

Bozung, Hanns-Gunter: *See—*

Schroder, Joachim; Bozung, Hanns-Gunter; Bandel, Rudolf; and Mendle, Hans, 4,689,960, Cl. 60-607.000.

Bozung, Hanns-Gunther; and Nachtigal, Joachim, to Siemens Aktiengesellschaft. Control device for an internal combustion engine with an exhaust gas turbocharger. 4,680,933, 7-21-87, Cl. 60-608.000.

Bozzay, Laszlo: *See—*

Simon, Ferenc; Romvary, Attila; Varga, Janos; Bozzay, Laszlo; and Bruckner nee Gabor, Edit, 4,650,790, Cl. 514-39.000.

Bozzelli, Joseph W.: *See—*

Geskin, Ernest S.; and Bozzelli, Joseph W., 4,684,402, Cl. 75-51.500.

Bozzetto Industrie Chimiche S.p.A.: *See—*

Broussard, Fabio; and Busetto, Carlo, 4,668,725, Cl. 524-219.000.

Bozzio, Terry. Electronic drum rim. 4,648,302, 3-10-87, Cl. 84-1.040.

Bozzio, Terry. Electronic drum. 4,700,602, 10-20-87, Cl. 84-1.140.

Bozzo, Michael J. Reusable clip. 4,663,807, 5-12-87, Cl. 24-30.50R.

Bozzolato, Giovanni, to AGIP, S.p.A. Method for the stereophotogrammetric survey of large-dimension objects on sea and land. 4,641,960, 2-10-87, Cl. 356-2.000.

Bozzolato, Giovanni, to AGIP, S.p.A. Signal for industrial surveys. 4,644,661, 2-24-87, Cl. 33-293.000.

Bozzolato, Giovanni, to Agip, S.p.A. Rotatable heliborne beam for supporting metric photo-cameras suitable to industrial stereophotogrammetric surveys. 4,669,843, 6-2-87, Cl. 354-74.000.

Bozzolini, Aldo: *See—*

Baecchi, Alfredo; Bozzolini, Aldo; Santoni, Tancredo; and Mori, Carlo, 4,646,626, Cl. 99-275.000.

BP Chemicals Limited: *See—*

Bailly, Jean C., 4,673,662, Cl. 502-115.000.

Berrier, Bernard; and Thiersault, Jean P., 4,680,330, Cl. 524-230.000.

Bullen, David J.; and Umpleby, Jeffrey D., 4,707,517, Cl. 525-72.000.

Crouzet, Pierre, 4,714,553, Cl. 210-533.000.

Desvignes, Bernard; Durand, Daniel; and Milleliri, Bernard, 4,663,238, Cl. 428-516.000.

Dumain, Andre ; and Raufast, Charles, 4,687,381, Cl. 406-52.000.

Duncan, Alexander W. S.; Summers, David G.; and Thomas, Kenneth C., 4,681,902, Cl. 521-85.000.

Green, Michael J., 4,652,667, Cl. 558-277.000.

Green, Michael J., 4,658,053, Cl. 560-234.000.

Green, Michael J., 4,663,472, Cl. 560-024.000.

Green, Michael J., 4,665,223, Cl. 560-263.000.

Green, Michael J., 4,681,967, Cl. 558-277.000.

Green, Michael J., 4,687,755, Cl. 502-159.000.

Green, Michael J., 4,699,998, Cl. 560-240.000.

Green, Michael J., 4,700,005, Cl. 568-38.000.

Gritti, Serjio, 4,648,982, Cl. 252-75.000.

Marks, Gerald C.; and Quist, Per I., 4,648,922, Cl. 156-79.000.

Nance, Kenneth H., 4,643,754, Cl. 71-1.000.

Nolin, Claude H. A.; and Tucoulat, Marcel J., deceased, 4,699,726, Cl. 252-75.000.

Raufast, Charles, 4,703,094, Cl. 526-65.000.

Tenhagen, Rudolf J., 4,714,574, Cl. 264-45.100.

Thiersault, Jean P.; and Senez, Alain, 4,634,735, Cl. 525-88.000.

Zimmerman, Huguette; Vincent, Jean; and Mangin, Pierre, 4,677,172, Cl. 526-159.000.

BP Chimie Societe Anonyme: *See—*

Morterol, Frederic; and Vidal, Jean L., 4,642,328, Cl. 526-125.000.

BP Performance Polymers Inc.: *See—*

Shedd, Charles D.; and Anzini, David J., 4,696,967, Cl. 524-437.000.

BP Solar International Ltd.: *See—*

Basol, Bulent M., 4,666,569, Cl. 204-34.500.

BR Laboratories, Inc.: *See—*

Subherwal, Bodh R., 4,684,061, Cl. 236-20.00R.

Braa, James W.: *See—*

Braa, Jim A.; and Braa, James W., 4,676,891, Cl. 209-458.000.

Braa, Jim A.; and Braa, James W. Portable sluice. 4,676,891. 6-30-87, 209-458.000.

Braach, Otto: *See—*

Babendererde, Siegmund; Hillemeier, Bernd; and Braach, Ot 4,687,374, Cl. 405-146.000.

Braat, Josephus J. M., to U.S. Philips Corporation. Biaspherical le 4,641,929, 2-10-87, Cl. 350-432.000.

Braat, Josephus J. M.; and Smid, Albert, to U.S. Philips Corporati Single lens having one aspherical surface. 4,668,056, 5-26-87, 350-432.000.

Braaten, Orvar, to A/S Megon & Co. Process for the recovery valuable metals, particularly rare earths and similar metals, from carbonate-containing raw material. 4,670,228, 6-2-87, Cl. 423-21.1

Braathen, Jan; and Bryn, Kristian. Device on a string tightener stringed instruments. 4,648,303, 3-10-87, Cl. 84-306.000.

Braathen, Russell E., to Novatel Communications Ltd. Two way te phone communication system. 4,691,348, 9-1-87, Cl. 379-389.000.

Braatz, Andreas: *See—*

Martin, Hans; and Braatz, Andreas, 4,667,791, Cl. 192-58.00B.

Braatz, Robert E.: *See—*

Fruechte, Kevin M.; Andrejeski, Gary J.; and Braatz, Robert 4,648,427, Cl. 137-826.000.

Brabandt, Earl; and Freeman, Robert R. Sample injection timer chromatographic apparatus. 4,702,115, 10-27-87, Cl. 73-864.850.

Brabazon, James A. Adjustable water temperature safety control u 4,685,156, 8-11-87, Cl. 4-194.000.

Brabb, James D.; and Simpson, Dennis L., to White Castle System, Swath-controlling variable chute and chute-activated damper fo broadcast spreader. 4,681,265, 7-21-87, Cl. 239-665.000.

Bracco, Umberto: *See—*

Zabotto, Arlette; Griat, Jacqueline; and Bracco, Umbe 4,661,343, C'. 424-59.000.

Brace, George A.: *See—*

Enders, Max L., deceased; and Thiel, Reinhard A., adminstra 4,639,044, Cl. 301-9.0DN.

Brace, R. Lyle. Hydraulic power transmission system. 4,696, 9-29-87, Cl. 60-489.000.

Brace, Richard G. Rack assembly for elongated objects. 4,688, 8-25-87, Cl. 211-70.500.

Brace, Roger: *See—*

Atkinson, Colin; Brace, Roger; and Burak, Nathan, 4,661,333, 423-328.000.

Braceras, George M.; and Dreibelbis, Jeffrey H., to International ness Machines Corporation. Off-chip driver circuits. 4,709, 11-24-87, Cl. 307-270.000.

Bracewell, John H.: *See—*

Lord, Duncan; and Bracewell, John H., 4,676,541, Cl. 294-88.

Bracewell, Ronald N., to Leland Stanford Junior University, Board of Trustees of the. Computer and method for the dis bracewell transform. 4,646,256, 2-24-87, Cl. 364-725.000.

Brach, Reiner, to Reiner Brach Import-Export. Method for dressin rolled strip coils, especially coilbox coils. 4,680,951, 7-21-87, 72-160.000.

Bracha, Franz, to Standard Elektrik Lorenz Aktiengesellschaft. Bl ing protection arrangement for electronically commutated DC tors. 4,654,567, 3-31-87, Cl. 318-254.000.

Brachais, Christian: *See—*

Fontaine, Christian; Vaumoron, Pascal; Pinchon, Gerard; Brachais, Christian, 4,670,961, Cl. 29-429.000.

Bracher, Bernhard; Baumann, Karl; and Staub, Hermann, to Ba Aktiengesellschaft. Multiple holder for substrates to be tre 4,643,128, 2-17-87, Cl. 118-503.000.

Brachmann, Walter, to Metzeler Kautschuk GmbH. Device fo simultaneous sealing of the window pane of a door and the roo motor vehicle. 4,656,784, 4-14-87, Cl. 49-491.000.

Bracht, Jeffrey L.; Heinrich, Martin W.; van Maaren, Richard D Sleder, Richard L., to Kohler Co. Cooling system for a co generator. 4,677,940, 7-7-87, Cl. 123-2.000.

Bracht, Philip E.: *See—*

Persem, Jake; Quinn, Mike; Emery, Walter C.; and Bracht, E., 4,633,672, Cl. 62-126.000.

Bracht, Roger R., to Optotech, Inc. Single beam direct read d write and write protect system for use in an optical data s system. 4,680,594, 7-14-87, Cl. 346-108.000.

Bracht, Roger R.: *See—*

Silvy, Dorrel R.; Baumann, Todd D.; and Bracht, Rog 4,700,056, Cl. 250-201.000.

Steenbergen, Christiaan; Howard, Peter G.; Bracht, Roger R van der Put, Henk, 4,695,994, Cl. 369-54.000.

Brack, Alfred: *See—*

Berneth, Horst; and Brack, Alfred, 4,695,633, Cl. 544-286.0

Brackelmanns, Norbert W.: *See—*

Neilson, John M. S.; and Brackelmanns, Norbert W., 4,639,7 357-23.800.

Brackett, Douglas C. Device for converting linear motion to motion or vice versa. 4,685,342, 8-11-87, Cl. 74-50.000.

Brackett, George E., to Maxaxam Corporation. Power trans system. 4,685,346, 8-11-87, Cl. 74-427.000.

Brackett, John E.; and Dahlberg, Larry J., to Fishing Design Palming grip fishing rod. 4,697,376, 10-6-87, Cl. 43-23.000.

Brackett, John R., Jr. Electrical plug lock. 4,679,873, 7-14-87, Cl. 439-134.000.

Bradbury, Bernard G., to Rexnord Inc. Retractable drive assembly for conveyor. 4,650,066, 3-17-87, Cl. 198-832.000.

Bradbury, Colin; and Douglas, George H., to Office Automation Systems, Inc. Laser printer controller data alignment device. 4,694,405, 9-15-87, Cl. 364-518.000.

Bradbury, David: *See—*

Wood, Christopher J.; Bradbury, David; Swan, Timothy; Segal, Michael G.; and Sellers, Robin M., 4,705,573, Cl. 134-3.000.

Bradbury, Patrick H. Knapsack and frame convertible to a folding chair. 4,676,548, 6-30-87, Cl. 297-129.000.

Bradd, Sidney H., Jr.: *See—*

Wise, Robert D.; Quinlan, Robert L., Jr.; Lauro, Charles W.; and Bradd, Sidney H., Jr., 4,655,506, Cl. 297-467.000.

Braddick, Britt O., to Texas Iron Works, Inc. Tubular member anchoring arrangement and method. 4,690,220, 9-1-87, Cl. 166-382.000.

Braddick, Peter W.: *See—*

Bhalaik, Arun; Braddick, Peter W.; Brittin, Darryl S.; and Johnson, Gerald L., 4,695,194, Cl. 405-207.000.

Braddock, John C.; and Braddock, Kathy M. Non-competitive game for two or more players. 4,640,510, 2-3-87, Cl. 273-1.00R.

Braddock, Kathy M.: *See—*

Braddock, John C.; and Braddock, Kathy M., 4,640,510, Cl. 273-1.00R.

Bradel, John H., Jr.: *See—*

Fabiny, Eugene S.; Hessler, George W.; and Bradel, John H., Jr. 4,634,609, Cl. 427-345.000.

Brademeyer, David L.; and Welch, Timothy M., to General Motors Corporation. Quick take-up master cylinder valve arrangement. 4,633,669, 1-6-87, Cl. 60-578.000.

Brademeyer, David L.; and Welch, Timothy M., to General Motors Corporation. Quick take-up master cylinder valve arrangement. 4,640,098, 2-3-87, Cl. 60-578.000.

Braden, Rudolf: *See—*

Fiedler, Paul; Braden, Rudolf; and Buding, Hartmuth, 4,673,757, Cl. 558-431.000.

Naumann, Klaus; Braden, Rudolf; Behrenz, Wolfgang; Becker, Benedikt; Homeyer, Bernhard; and Stendel, Wilhelm, 4,699,922, Cl. 514-531.000.

Braden William I., to Damon Biotech, Inc. Protein harvesting system. 4,673,650, 6-16-87, Cl. 435-286.000.

Braden, William I., to Damon Biotech, Inc. Method and apparatus for forming droplets and microcapsules. 4,692,284, 9-8-87, Cl. 264-4.300.

Brader, David G.: *See—*

Kaplan, Gary M.; Karau, Robert T.; Winney, Norman E., Jr., and Brader, David G., 4,640,413, Cl. 206-232.000.

Bradfield, Ganey W.; and Cragin, Glynn P., Jr., to General Dynamics Corporation. Method and system for improved V/STOL aircraft performance. 4,709,880, 12-1-87, Cl. 244-12.500.

Bradfield, James E.; Kahil, John E.; Jaynes, Mark S.; Moake, Gordon L.; Milewits, Marvin; Bolton, Curtis W., III; Lam, Clive C.; and Stanley, Roderic K., to PA Incorporated. Method and apparatus for measuring defects in ferromagnetic elements. 4,710,712, 12-1-87, Cl. 324-227.000.

Bradfield, James E.: *See—*

Kahil, John E.; Milewits, Marvin; Bradfield, James E.; and Lam, Clive C., 4,636,727, Cl. 324-227.000.

Moake, Gordon L.; and Bradfield, James E., 4,704,580, Cl. 324-242.000.

Bradford, James N.; Ames, Jimmy R.; and Montroll, Andrew H., to Perkin-Elmer Corporation, The. Semiconductor laser and optical amplifier. 4,713,821, 12-15-87, Cl. 372-44.000.

Bradford, John R. Stereo image display device. 4,691,358, 9-1-87, Cl. 381-12.000.

Bradford, Michael P.; Parkinson, Gerald W.; and Grant, Ross M., to United Technologies Corporation. Electric power distribution and load transfer system. 4,638,175, 1-20-87, Cl. 307-64.000.

Bradford, Michael P.; and Maciolek, Joseph R., to United Technologies Corporation. Rotor control system. 4,678,401, 7-7-87, Cl. 416-32.000.

Bradford, Peter F.; Bungay, Michael R.; and Kember, Christopher J., to Lucas Industries. Fuel heater. 4,646,703, 3-3-87, Cl. 123-557.000.

Bradford, Randol W.; Hiller, Alfred E.; and Winters, Burnham F., Jr., to Freeport Minerals Company. Process for applying a heat-shrinkable material over sulfur well piping. 4,671,833, 6-9-87, Cl. 156-86.000.

Bradford, Robert G.: *See—*

Steele, David; and Bradford, Robert G., 4,650,178, Cl. 271-305.000.

Bradford, Robert S.: *See—*

Hustig, Charles H.; Ward, Jeffrey L.; Moses, Donald W.; and Bradford, Robert S., 4,672,605, Cl. 370-76.000.

Bradford, Steven K.: *See—*

Jones, Ernest L.; and Bradford, Steven K., 4,664,222, Cl. 181-113.000.

Bradford-White Corporation: *See—*

Staats, Charles W., 4,672,919, Cl. 122-13.00R.

West, Eugene L., 4,669,448, Cl. 126-361.000.

Bradford, William M.: *See—*

Petratos, Nickie A.; Karl, David; and Bradford, William M., 4,680,676, Cl. 361-424.000.

Bradisse, John L.; and Lindner, Daniel J., to Goodyear Tire & Rubber Company, The. All-season pneumatic tire with chamfered tread blocks. 4,690,189, 9-1-87, Cl. 152-209.00R.

Bradlee, Charles R., to Monarch Machine Tool Co. Leveling apparatus. 4,635,458, 1-13-87, Cl. 72-165.000.

Bradley, Brian D.: *See—*

Young, Lawrence R.; Sexton, Gregory J.; Mullins, Randal L.; and Bradley, Brian D., 4,639,738, Cl. 346-75.000.

Bradley, Charles D., Jr., to Pneumo Abex Corporation. Anti-rotation lock assembly. 4,684,284, 8-4-87, Cl. 403-320.000.

Bradley, Danny R.: *See—*

Morrison, Elbert F.; Bradley, Danny R.; and Reece, D. C., 4,635,435, Cl. 57-328.000.

Morrison, Elbert F.; Bradley, Danny R.; and Reece, D. C., 4,713,931, Cl. 57-328.000.

Bradley, Donald B.; Gaehring, David P.; and Long, Charles W., to Campbell Soup Company. Apparatus for consistency control of manufactured tomato pulp. 4,650,582, 3-17-87, Cl. 210-402.000.

Bradley, Donald B., to Campbell Soup Company. Method for consistency control of manufactured tomato pulp. 4,670,281, 6-2-87, Cl. 426-481.000.

Bradley, Gary W.: *See—*

Arrington, Stephen T.; and Bradley, Gary W., 4,666,528, Cl. 134-2.000.

Bradley, George G. Brush with self-sealing reservoir having a convertible actuator. 4,655,627, 4-7-87, Cl. 401-171.000.

Bradley, Gerald R. Sublimation printing apparatus. 4,640,191, 2-3-87, Cl. 101-470.000.

Bradley, Irving; and Moore, Paul A., to General Electric Company. Plastics skirt for rigidly interconnecting metallic base and glass envelope of a lamp. 4,658,178, 4-14-87, Cl. 313-113.000.

Bradley, Irving; and Hanson, James M., to General Electric Company. Plastic PAR lamp construction. 4,674,017, 6-16-87, Cl. 362-349.000.

Bradley, James D.; and Pfeffer, George B., to ADC Telecommunications, Inc. Electrical connector apparatus. 4,710,138, 12-1-87, Cl. 439-581.000.

Bradley, Jerome R.; Halvorsen, Robert M.; and Long, Gregory F., to Ex-Cell-O Corporation. Fuel nozzle assembly with integral valve assembly and inlet wash filter and primary fuel take-off. 4,649,950, 3-17-87, Cl. 137-549.000.

Bradley, Jerome R.; and Long, Gregory F., to Ex-Cell-O Corporation. Fluid valve assembly. 4,655,912, 4-7-87, Cl. 210-133.000.

Bradley, John J.; and Hansen, Debra K., to Paper Converting Machine Company. Method of making elastic diapers and product. 4,642,109, 2-10-87, Cl. 604-385.00Z.

Bradley, John J.; Stoffers, Brian L.; and Widen, Melinda A., to Honeywell Information Systems Inc. Apparatus and method for converting a number in binary format to a decimal format. 4,672,360, 6-9-87, Cl. 340-347.0DD.

Bradley, John J., to Honeywell Information Systems Inc. LSI microprocessor chip with backward pin compatibility and forward expandable functionality. 4,677,548, 6-30-87, Cl. 364-200.000.

Bradley, John J., to Paper Converting Machine Company. Apparatus for interfolding. 4,691,908, 9-8-87, Cl. 270-21.100.

Bradley, John J.: *See—*

Nusinov, Eugene; and Bradley, John J., 4,654,789, Cl. 364-200.000.

Bradley, John W. Vehicle rear seat sun visor. 4,640,543, 2-3-87, Cl. 296-97.00K.

Bradley, John W.: *See—*

Getson, Edward F., Jr.; Bradley, John W.; and Cote, Bruce R., 4,663,733, Cl. 364-900.000.

Bradley, Kenneth A.: *See—*

Barnett, Stanley M.; and Bradley, Kenneth A., 4,654,305, Cl. 435-246.000.

Bradley, Ralph H.: *See—*

Andrea, Johan; Lubchenko, Eugene; and Bradley, Ralph H., 4,679,069, Cl. 358-60.000.

Bradley, Ralph H., Jr., to North American Philips Consumer Electronics Corp. Rear projection screen with improved luminance uniformity. 4,701,020, 10-20-87, Cl. 350-128.000.

Bradley, Terry. Log splitter. 4,679,607, 7-14-87, Cl. 144-193.00A.

Bradley, William B.; and Holbrook, Philip, to NL Industries, Inc. Method and system for monitoring the stability of boreholes. 4,710,906, 12-1-87, Cl. 367-35.000.

Bradley, William D.; Alvi, Zia R.; and Lacey, Raymond D., to Avdel Limited. Threaded fastener and method of installing same. 4,642,010, 2-10-87, Cl. 411-69.000.

Bradley, William D.; Alvi, Zia R.; and Lacey, Raymond D., to Avdel Limited. Method of installing threaded fastener. 4,701,993, 10-27-87, Cl. 29-523.000.

Bradlow, H. Leon: *See—*

Fleisher, Martin; Bradlow, H. Leon; and Schwartz, Morton K., 4,695,471, Cl. 436-64.000.

Bradshaw, Franklin C.; and Maloney, Patrick M., to Kroy Inc. Lettering apparatus. 4,697,940, 10-6-87, Cl. 400-134.600.

Bradshaw, John: *See—*

Clitherow, John W.; Bradshaw, John; Mackinnon, John W. M.; Judd, Duncan B.; Bays, David E.; Hayes, Roger; and Pearce, Andrew, 4,670,448, Cl. 514-334.000.

Bradshaw, John F. Bow sight bar. 4,635,374, 1-13-87, Cl. 33-265.000.

Bradshaw, Kenneth M., to General Electric Company. Circuit for detecting RF coil assembly position in an MR scanner. 4,638,252, 1-20-87, Cl. 324-318.000.

Bradshaw, Kenneth M.: *See—*

Gray, Floyd L.; Schubert, Thomas F.; Bradshaw, Kenneth M.; and Kolawole, Joshua O., 4,680,545, Cl. 324-307.000.

Bradshaw, Leslie, to United Kingdom Atomic Energy Authority. Ultrasonic probe. 4,683,752, 8-4-87, Cl. 73-642.000.

Bradshaw, Peter S.: *See—*

  Archer, Joel; Wassenhove, Denis V.; Pithouse, Kenneth B.; Bock, Leslie J.; Molyneux, Jeffrey P.; and Bradshaw, Peter S., 4,709,948, Cl. 285-381.000.

Bradshaw, Richard J. Louvered wall. 4,688,767, 8-25-87, Cl. 256-19.000.

Bradshaw, Thomas I.; Orensteen, Bruce D.; and Cook, Jack E., to Minnesota Mining and Manufacturing Company. Sheet containing contour-dependent directional image and method for forming the same. 4,714,656, 12-22-87, Cl. 428-411.100.

Bradshaw, Thomas I.: *See—*

  Hockert, Eric N.; Orensteen, Bruce D.; Bradshaw, Thomas I.; and Borgeson, Frank A., 4,634,220, Cl. 350-167.000.

  Orensteen, Bruce D.; and Bradshaw, Thomas I., 4,645,301, Cl. 350-167.000.

  Orensteen, Bruce D.; and Bradshaw, Thomas I., 4,650,283, Cl. 350-105.000.

  Orensteen, Bruce D.; and Bradshaw, Thomas I., 4,708,920, Cl. 430-11.000.

  Porter, Gerald R.; Bradshaw, Thomas I.; and Hockert, Eric N., 4,691,993, Cl. 350-105.000.

Bradshaw, William. A method of and apparatus for drying moisture containing material. 4,644,664, 2-24-87, Cl. 34-10.000.

Bradstreet, Hal R., to Bradstreet Manufacturing Services, Inc. Therapeutic traction chair. 4,688,557, 8-25-87, Cl. 128-71.000.

Bradstreet Manufacturing Services, Inc.: *See—*

  Bradstreet, Hal R., 4,688,557, Cl. 128-71.000.

Bradt, Peter, to Siemens Aktiengesellschaft. Coil form with integral comb-like fins on at least one end flange. 4,672,349, 6-9-87, Cl. 336-192.000.

Bradt, Peter; and Prietzel, Gunter, to Siemens Aktiengesellschaft. Current transformer having a rectangular iron core. 4,700,166, 10-13-87, Cl. 336-175.000.

Bradway, David W.; and Danke, Jeffrey G., to Hartley Controls Corporation. Automatic compactability tester. 4,699,011, 10-13-87, Cl. 73-823.000.

Bradwell, Paul R.: *See—*

  Marsden, Peter; and Bradwell, Paul R., 4,692,358, Cl. 427-421.000.

Brady, Arthur; Kristen, Ulrich; Angerer, Hermann F.; and Regenass, Franz, to Ciba-Geigy Corporation. Lubricant compositions containing antioxidants, amine phosphates and 4- (5-) methyl-1-[di-(2-ethylhexyl) aminomethyl]-benzotriazole. 4,701,273, 10-20-87, Cl. 252-32.500.

Brady, Arthur R., to Sundstrand Data Control, Inc. Structure and method for mounting an aircraft weight sensor within tubular axle of an aircraft undercarriage. 4,700,910, 10-20-87, Cl. 244-1.00R.

Brady, Cathereine D.; Metcalfe, Lincoln D.; Slaboszewski, Dale R.; and Frank, Dieter, to Akzo America Inc. Hydrolysis of fats. 4,678,580, 7-7-87, Cl. 210-490.000.

Brady, Dale J.: *See—*

  Scott, Paul F.; and Brady, Dale J., 4,664,521, Cl. 356-240.000.

Brady, John K.: *See—*

  True, Charles W., III; and Brady, John K., 4,715,046, Cl. 375-61.000.

Brady, Michael B. C.; and Crook, Archie W., to English Electric Valve Company, Limited. Microwave transmitting and receiving arrangements. 4,673,896, 6-16-87, Cl. 333-13.000.

Brady, Michael B. C.: *See—*

  Esterson, Maurice; and Brady, Michael B. C., 4,672,340, Cl. 333-231.000.

Brady, Patrick K.; Chen, Cecilia S.; Posterick, Barry L.; and Stewart, Gilbert M., to AT&T Bell Laboratories. Pre-cutover verification of switching system subscriber lines served via digital carrier facilities. 4,653,043, 3-24-87, Cl. 370-13.000.

Brady, Sam A.; Elias, Michael G.; and Freiberg, Alan L., to Dow Corning Corporation. Silicone elastomer based roofing system. 4,668,315, 5-26-87, Cl. 156-71.000.

Brady, Sam A.: *See—*

  Beck, Earl W.; and Brady, Sam A., 4,686,271, Cl. 528-15.000.

Brady, Stephen F., to Merck & Co., Inc. Bridged cyclic hexapeptide somatostatin analogs. 4,663,435, 5-5-87, Cl. 530-311.000.

Brady, Stephen F.: *See—*

  Bock, Mark G.; Boger, Joshua S.; Brady, Stephen F.; and Veber, Daniel F., 4,663,310, Cl. 514-15.000.

Brady, Thomas R.: *See—*

  Blackwood, Albert J.; and Brady, Thomas R., 4,646,540, Cl. 62-373.000.

Brady, William J.; and Anderson, Harlan U. Method and composition for producing hard surface carbide insert tools. 4,682,987, 7-28-87, Cl. 51-293.000.

Brady, William T.; Norton, Scott J.; and Ko, Jinrea, to S.C. Johnson & Son, Inc. Process for the preparation of pyrethroid acids. 4,691,052, 9-1-87, Cl. 562-506.000.

Braegas, Peter: *See—*

  Markovic, A.; Temerinac, M.; and Braegas, Peter, 4,679,238, Cl. 381-16.000.

Braegen Corporation, The: *See—*

  Salmond, Kent A.; and Cone, Gail P., 4,677,613, Cl. 370-85.000.

Braeger, Horst; and Johannesson, Orn, to Nordischer Maschinenbau Rud. Baader GmbH & Co. KG. Apparatus for decapitating fish. 4,635,318, 1-13-87, Cl. 17-63.000.

Braeger, Horst, to Norischer Maschinenbau Rud. Baader GmbH & Co. Apparatus for removing a surface layer from animal muscular tissue, particularly fish fillets. 4,649,604, 3-17-87, Cl. 17-62.000.

Braemer, Mark C.: *See—*

  Alford, Robert A.; and Braemer, Mark C., 4,687,534, Cl. 156-308.600.

Braese, Hans-Eberhard: *See—*

  Lindner, Christian; Ott, Karl-Heinz; Uerdingen, Walter; Braese, Hans-Eberhard; and Kress, Hans-Jurgen, 4,666,980, Cl. 525-83.000.

  Ott, Karl-Heinz; Lindner, Christian; Uerdingen, Walter; Braese, Hans-Eberhard; and Hurnik, Helmut, 4,657,976, Cl. 525-83.000.

Braff, Martin; and Hluchyj, Michael G., to American Telephone & Telegraph Company; and AT&T Information Systems Inc. Packet switch trunk circuit queueing arrangement. 4,644,533, 2-17-87, Cl. 370-94.000.

Braga, Renzo; Pasquali, Renato; and Mendicino, Franco, to Alfa Romeo Auto S.p.A. Support arm for the truck lid and/or the hood of a motor car. 4,712,825, 12-15-87, Cl. 296-76.000.

Bragard, Adolphe: *See—*

  Monfort, Guy; Crahay, Jean; and Bragard, Adolphe, 4,679,288, Cl. 29-121.800.

Bragg, Charles D.: *See—*

  Kermode, Nigel J.; and Bragg, Charles D., 4,686,062, Cl. 252-99.000.

Bragg, Elmore J. Shoulder firearm recoil absorbing mechanism. 4,663,877, 5-12-87, Cl. 42-74.000.

Bragg, James R., to Exxon Production Research Company. Method for concentrating surfactant from a brine solution. 4,676,315, 6-30-87, Cl. 166-266.000.

Bragin, Boris F.; and Markuntovich, Felix D., to Voroshilovgradsky Mashinostroitelny Institut. Gate valve. 4,635,900, 1-13-87, Cl. 251-326.000.

Bragin, Boris F.; Iljushin, Alexei F.; Kolosov, Vladimir V.; Kulikov, Mikhail A.; Markuntovich, Felix D.; Ryabenko, Boris Z.; and Ekber, Boris Y., to Voroshilovgradsky Mashinostroitelny Institut. Gate valve. 4,671,487, 6-9-87, Cl. 251-84.000.

Braginetz, Paul A. Shielded medical syringe. 4,666,435, 5-19-87, Cl. 604-198.000.

Brahm, David J.; Draper, Don R.; Edmonds, Christopher; and Grinn, James M., to AT&T Bell Laboratories. Interrupt bus structure. 4,654,820, 3-31-87, Cl. 364-900.000.

Brahm, David J.; Grinn, James M.; Hepler, Edward L.; and Schatz, Edward P., Jr., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Multiprocessor computing system featuring shared global control. 4,713,834, 12-15-87, Cl. 379-28.000.

Brahm, Leroy D.; Brown, Frank C.; Ciarlone, David F.; Dedrich, Mark R.; Hassall, James B.; and Salva, Fedor M. Shielding device. 4,699,752, 10-13-87, Cl. 376-260.000.

Brahm, Richard: *See—*

  Franke, Werner; and Brahm, Richard, 4,657,836, Cl. 430-83.000.

  Franke, Werner; and Brahm, Richard, 4,663,261, Cl. 430-93.000.

  Franke, Werner; and Brahm, Richard, 4,681,827, Cl. 430-83.000.

Brahmavar, Subhash M.; and Litch, Ernest W., III, to General Electric Company. Electronically controlled motor and methods of operating same. 4,687,977, 8-18-87, Cl. 318-492.000.

Brahmbhatt, Sudhir R., to MG Industries. System for producing a regulated atmosphere for a high-temperature process. 4,643,402, 2-17-87, Cl. 266-82.000.

Brahme, Anders, to Instrument AB Scanditronax. Multi leaf collimator. 4,672,212, 6-9-87, Cl. 250-505.100.

Braidotti, Archimede; Mini, Renzo; and Roscano, Giancarlo, to Danieli & C. Officine Meccaniche SpA. Separator device for bars. 4,660,712, 4-28-87, Cl. 198-434.000.

Braillon & Cie (Societe Anonyme): *See—*

  Braillon, Philibert M., 4,679,021, Cl. 335-295.000.

Braillon, Philibert M., to Braillon & Cie (Societe Anonyme). Magnetic retention plate with permanent magnets. 4,679,021, 7-7-87, Cl. 335-295.000.

Brainerd, Henry A.; Wilkerson, Charles W.; and Tyhurst, John R., to Atlantic Richfield Company. Pipeline injector apparatus and method for using same. 4,688,589, 8-25-87, Cl. 137-13.000.

Braithwaite, Charles H., Jr. Method for flameproofing shingled surfaces. 4,671,040, 6-9-87, Cl. 52-748.000.

Braithwaite, Phillip W. Apparatus for sharpening chain saw chains. 4,699,026, 10-13-87, Cl. 76-40.000.

Braithwaite, Richard W.; Smith, Graham M.; Bellamy, Norman W.; and Gergely, Stephen, to Encore Drilling Limited. Wedging assembly for borehole steering or branching. 4,665,995, 5-19-87, Cl. 175-45.000.

Braitinger, Helmut; and Grupp, Gunther, to L. Schuler GmbH. Electrical circuit arrangement for the protection of presses. 4,648,0[illegible], 3-3-87, Cl. 361-31.000.

Braitinger, Helmut; and Feinauer, Otto, to L. Schuler GmbH. Pressure control installation for presses. 4,651,273, 3-17-87, Cl. 364-188.000.

Braitinger, Helmut: *See—*

  Schneider, Franz; Braitinger, Helmut; and Feinauer, Otto, 4,682,280, Cl. 364-191.000.

Brajder, Antonio: *See—*

  Hantke, Klaus; and Brajder, Antonio, 4,647,905, Cl. 340-347.0NT.

Brake, Arthur L.: *See—*

  Papworth, Charles D.; Pole, Andrew L.; Brake, Arthur L.; and Dimmock, Ivan H., 4,659,254, Cl. 405-205.000.

Brake, David W.: *See—*

  Skach, Edward J., Jr.; Brake, David W.; and Waibel, Joseph H., 4,708,737, Cl. 75-58.000.

Brakus, Bogdan, to Siemens Aktiengesellschaft. Circuit arrangement for controlled power supply devices particularly for autoconverters. 4,639,847, 1-27-87, Cl. 363-46.000.

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Bralorne Resources Limited: *See—*

  Johnson, Clarence W., 4,703,812, Cl. 173-152.000.

Ring, Curtis P., 4,658,917, Cl. 175-297.000.

nanti, Donato. Magnetic amplifier. 4,675,615, 6-23-87, Cl. 0-8.000.

billa, Dario, to Dario Manuli S.p.A. Process for continuous wrap- ng an object and machine for carrying out the process. 4,685,270, 11-87, Cl. 53-176.000.

nbilla, Enrico, to Telettra-Telefonia Elettronica e Radio S.p.A. ual mode filters. 4,652,844, 3-24-87, Cl. 333-212.000.

nbilla, Luigi: *See—*
Baumann, Karl-Heinz; Schick, Gerald; Kassing, Lothar; Bossenmaier, Alban; and Brambilla, Luigi, 4,715,468, Cl. 180-271.000.

ahl, Robert M., to University of Minnesota, Regents of the. Method quantifying storage mold contamination. 4,650,754, 3-17-87, Cl. 5-30.000.

bles Industries, Ltd.: *See—*
James, Raymond E., 4,676,000, Cl. 30-180.000.

blett, Earl C.; and Clem, Warren E. Can crusher. 4,682,539, 28-87, Cl. 100-265.000.

blett, Richard L.; and Preskitt, Charles A., to United States of nerica, Energy. Nuclear fuel pin scanner. 4,647,420, 3-3-87, Cl. 6-159.000.

el, Michael D.: *See—*
Metzger, David B.; Johnson, Glenn S.; and Bramel, Michael D., 4,678,531, Cl. 156-250.000.

er, Charles, to Lacks Industries, Inc. Remote control rear view rror, cable operated. 4,690,013, 9-1-87, Cl. 74-501.00M.

er, Charles, to Lacks Industries, Inc. Remote control rear view rror, electrically operated. 4,701,037, 10-20-87, Cl. 350-634.000.

er, Terrence P. C.: *See—*
Chaplin, George B. B.; Smith, Roderick A.; and Bramer, Terrence P. C., 4,654,871, Cl. 381-72.000.

hall, George H.: *See—*
ows, John F.; Smith, Robert M.; and Bramhall, George H., 4,633,543, Cl. 15-344.000.

lage Gesellschaft mit beschrankter Haftung: *See—*
Hackmann, Ludger, 4,715,496, Cl. 206-229.000.
Schockmann, Alfred V., 4,651,904, Cl. 222-383.000.
Severding, Werner; Mettenbrink, Herbert; Pohlmann, Gunter; and Hackmann, Ludger, 4,708,267, Cl. 222-211.000.

m, Gunter: *See—*
thea, Don B.; Bramm, Gunter; and Novak, Pavel, 4,688,998, Cl. 417-356.000.

nall, Inc.: *See—*
raft, Richard F.; and Smith, Gary L., 4,655,007, Cl. 51-338.000.

nall, Terrence; and Guiler, Richard S., to Trans-Guard Industries. Security seal for use with stranded cable. 4,681,355, 7-21-87, Cl. -323.000.

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nall, Terrence N., to Trans-Guard Industries, Inc. Locking device h split collar. 4,690,443, 9-1-87, Cl. 292-307.00R.

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ner, Norman, to Vetco Gray Inc. Wellhead pack-off with undu- d metallic seal ring section. 4,702,481, 10-27-87, Cl. 277-116.200.

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vell, Byrne E.: *See—*
nger, Thomas R.; and Bramwell, Byrne E., 4,695,017, Cl. 246-428.000.

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omlinson, Martin; and Bramwell, Jonathan R., 4,700,363, Cl. 375-37.000.

man, David H. Apparatus for aligning and clamping a workpiece. 0,106, 3-17-87, Cl. 227-152.000.

Joseph R.; Merchant, Thomas J.; Miller, William L.; and Pisc- Philip J., to Allen-Bradley Company, Inc. Disc drive isolation m. 4,685,303, 8-11-87, Cl. 62-3.000.

a, Quirico: *See—*
Schwanden, Werner; Branca, Quirico; Kyburz, Emilio; and Pfister, Rudolf, 4,691,040, Cl. 558-44.000.

n, Gregory L., to Growers Transplanting, Inc. Method and aratus for transplanting corps. 4,644,880, 2-24-87, Cl. 111-3.000.

o, Celso C. M.: *See—*
arbosa, Luiz C. F.; Ribeiro, Adelman M.; Bonet, Euclides J.; and Branco, Celso C. M., 4,643,256, Cl. 166-292.000.

t, Bernard; and Malandain, Michel, to Seppic SA. Film-forming positions for enveloping grains and seeds. 4,665,648, 5-19-87, Cl. 7.600.

Douglas, to C-E Vetco U.K. Limited. Explosive cutting device simultaneous detonation of opposite ends. 4,667,599, 5-26-87, Cl. 75.400.

Edward M.: *See—*
edvick, Richard J.; Weber, Richard C., Jr.; Wagner, Ross L.; and Brand, Edward M., 4,637,432, Cl. 137-614.030.
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Erich: *See—*
chner, Kaspar; Schurmann, Helmut; and Brand, Erich, 4,686,057, Cl. 252-62.000.

Hans-Norbert, to Gesellschaft fur Strahlen-und Umweltfor- ng m.b.H. Finger ring dosimeter. 4,698,505, 10-6-87, Cl. 337.000.

Brand, Harold E. Collapsible steering column. 4,674,354, 6-23-87, Cl. 74-492.000.

Brand, Harold E. Inflatable infant seat. 4,711,490, 12-8-87, Cl. 297-250.000.

Brand, Jack. Felt member as a technical accessory. 4,675,244, 6-23-87, Cl. 428-281.000.

Brand, Jerry C., to Motorola, Inc. Dielectric resonator directional filter. 4,714,903, 12-22-87, Cl. 333-110.000.

Brand, Jerry D.: *See—*
Oyler, John F.; Brand, Jerry D.; and Zavada, Richard, 4,683,029, Cl. 196-14.520.

Brand, Karl E.: *See—*
Scheide, Jurgen D.; and Brand, Karl E., 4,704,289, Cl. 426-431.000.

Brand, Larry M., to Procter & Gamble Company, The. Pharmaceutical products providing enhanced analgesia. 4,681,897, 7-21-87, Cl. 514-557.000.

Brand, Larry M.; and McDaniel, Harry C., to Procter & Gamble Co., The. Weighting oil substitutes. 4,705,690, 11-10-87, Cl. 426-590.000.

Brand, Martin, to Audi AG. Ventilation device for the fuel tank of a motor vehicle. 4,658,797, 4-21-87, Cl. 123-520.000.

Brand, Peter: *See—*
Heitmann, Uwe; Lorenzen, Heinz-Christen; and Brand, Peter, 4,662,214, Cl. 73-38.000.

Brand-Rex Company: *See—*
Archer, Lee A., 4,648,678, Cl. 339-99.00R.
Eisenhauer, Gary, and Simokat, Frank, 4,653,046, Cl. 370-72.000.

Brand, Rolf. Lightweight aircraft. 4,662,582, 5-5-87, Cl. 244-13.000.

Brand, Uwe: *See—*
Fuchs, Hugo; Brand, Uwe; and Buchaeckert, Helmut, 4,683,305, Cl. 540-533.000.

Brand, Wilhelm; Dierkes, Albert; and Olbrich, Otto, to Siemens Aktiengesellschaft. Magnetic disk memory having a disk pack hub seated at both sides of a disk pack. 4,672,487, 6-9-87, Cl. 360-97.000.

Brand, Wilhelm; Vanek, Vaclav; and Jakobec, Franz, to Siemens Aktiengesellschaft. Apparatus for positioning a magnetic disk read head with pulse operated detent magnet. 4,710,834, 12-1-87, Cl. 360-105.000.

Brand, Wilhelm: *See—*
Biermeier, Johann; and Brand, Wilhelm, 4,714,972, Cl. 360-97.000.

Brand, William E., to Outboard Marine Corporation. Lifting assembly. 4,669,618, 6-2-87, Cl. 212-146.000.

Brande, Bruce R. Folding boat dock. 4,695,195, 9-22-87, Cl. 405-220.000.

Brandeis University: *See—*
Perlman, Daniel, 4,649,109, Cl. 435-30.000.

Brandejs, Jan J.: *See—*
Kurka, Jaroslav A.; and Brandejs, Jan J., 4,649,660, Cl. 43-17.500.

Brandell, John R. Golf exercise device. 4,681,317, 7-21-87, Cl. 272-137.000.

Brandenburg, Darrell L., to General Motors Corporation. Anti-glare rear view mirror. 4,679,906, 7-14-87, Cl. 350-281.000.

Brandenstein, Manfred; Hetterich, Hermann; and Horling, Peter, to SKF Kugellagerfabriken GmbH. Arrangement for the axial positioning and holding of a machine part in a thin wall sleeve or the like. 4,640,632, 2-3-87, Cl. 384-537.000.

Brandenstein, Manfred; Edelmann, Ludwig; Haas, Roland; Herrmann, Gerhard; and Hans, Rudiger, to SKF GmbH. Tension roller. 4,643,700, 2-17-87, Cl. 474-112.000.

Brandenstein, Manfred; Hans, Rudiger; and Winkler, Otmar, to SKF GmbH. Bearing unit with integrated pump. 4,650,398, 3-17-87, Cl. 415-170.00R.

Brandenstein, Manfred; Meining, Hans; and Kaschube, Karl F., to SKF GmbH. Self-aligning bearing. 4,652,152, 3-24-87, Cl. 384-496.000.

Brandenstein, Manfred, to SKF GmbH. Method and apparatus for rotation-secure mounting of machine elements. 4,652,168, 3-24-87, Cl. 403-259.000.

Brandenstein, Manfred; Bonengel, Roland; and Dobhan, Herbert, to SKF Kugellagerfabriken GmbH. Method for the manufacture of rollers. 4,654,181, 3-31-87, Cl. 264-328.120.

Brandenstein, Manfred; and Hans, Rudiger, to SKF GmbH. Rotation-damping rolling bearing. 4,660,997, 4-28-87, Cl. 384-490.000.

Brandenstein, Manfred; Haas, Roland; and Hans, Rudiger, to SKF Kugellagerfabriken GmbH. Supporting member. 4,673,301, 6-16-87, Cl. 384-428.000.

Brandenstein, Manfred; Klupfel, Norbert; Pape, Gebhard; Haas, Roland; and Schmiechen, Rolf, to SKF GmbH. Worm gear. 4,679,458, 7-14-87, Cl. 74-458.000.

Brandenstein, Manfred, to SKF Kugallagerfabriken GmbH. Ring fastener for machine parts. 4,712,928, 12-15-87, Cl. 384-538.000.

Brandenstein, Manfred: *See—*
Olschewski, Armin; Brandenstein, Manfred; Hetterich, Hermann; and Kunkel, Heinrich, 4,696,083, Cl. 29-148.40C.

Brandes, Claudia: *See—*
Doi, Toshitada; Brandes, Claudia; and Lagadec, Roger, 4,644,546, Cl. 371-49.000.

Brandes, Gunter; Neier, Wilhelm; and Webers, Werner, to Deutsche Texaco Aktiengesellschaft. Process for treating a core halogenated strongly acidic cation exchange catalyst. 4,705,808, 11-10-87, Cl. 521-30.000.

Brandes, John H.; King, Eddie W.; and Summerville, Don S., to Coca-Cola Company, The. Coin-operated vending machine. 4,682,709, 7-28-87, Cl. 221-2.000.

Brandes, Karlheinz K.: *See—*
Parrott, Stephen L.; Kukes, Simon G.; and Brandes, Karlheinz K., 4,687,757, Cl. 502-220.000.

Brandes, Rolf, to University of California, The Regents of the. Method and apparatus for generating frequency selective pulses for NMR spectroscopy. 4,695,798, 9-22-87, Cl. 324-307.000.

Brandes, Wilhelm: *See*—

- Bockmann, Klaus; Jager, Gerhard; Brandes, Wilhelm; and Reinecke, Paul, 4,650,809, Cl. 514-383.000.
- Buchel, Karl H.; Kraatz, Udo; Stetter, Jorg; Reinecke, Paul; and Brandes, Wilhelm, 4,659,723, Cl. 514-341.000.
- Fest, Christa; Brandes, Wilhelm; Hanssler, Gerd; and Reinecke, Paul, 4,716,176, Cl. 514-477.000.
- Gajowski, Jan; Regel, Erik; Buchel, Karl H.; Brandes, Wilhelm; and Reinecke, Paul, 4,657,920, Cl. 514-365.000.
- Gauss, Walter; Kabbe, Hans-Joachim; Paulus, Wilfried; Rosslenbroich, Hans-Jurgen; and Brandes, Wilhelm, 4,644,000, Cl. 514-260.000.
- Gayer, Herbert; Brandes, Wilhelm; Hanssler, Gerd; and Reinecke, Paul, 4,689,343, Cl. 514-445.000.
- Hallenbach, Werner; Lindel, Hans; and Brandes, Wilhelm, 4,692,461, Cl. 514-443.000.
- Heinemann, Ulrich; Knops, Hans-Joachim; Steinbeck, Karl; Brandes, Wilhelm; Hanssler, Gerd; and Reinecke, Paul, 4,642,312, Cl. 514-364.000.
- Holmwood, Graham; Kramer, Wolfgang; Buchel, Karl H.; Reinecke, Paul; and Brandes, Wilhelm, 4,645,767, Cl. 514-383.000.
- Holmwood, Graham; Stetter, Jorg; Buchel, Karl H.; Reinecke, Paul; Brandes, Wilhelm; and Scheinpflug, Hans, 4,672,134, Cl. 549-551.000.
- Jelich, Klaus; Kramer, Wolfgang; Brandes, Wilhelm; Hanssler, Gerd; and Reinecke, Paul, 4,666,933, Cl. 514-404.000.
- Kramer, Wolfgang; Buchel, Karl H.; Holmwood, Graham; Regel, Erik; Reinecke, Paul; and Brandes, Wilhelm, 4,639,462, Cl. 514-383.000.
- Kramer, Wolfgang; Reiser, Wolf; Berg, Dieter; Brandes, Wilhelm; and Reinecke, Paul, 4,668,700, Cl. 514-467.000.
- Kramer, Wolfgang; Buchel, Karl H.; Frohberger Paul-Ernst; Brandes, Wilhelm; and Lurssen, Klaus, 4,711,657, Cl. 71-92.000.
- Kramer, Wolfgang; Weissmuller, Joachim; Reiser, Wolf; Berg, Dieter; Brandes, Wilhelm; and Reinecke, Paul, 4,713,379, Cl. 514-212.000.
- Kramer, Wolfgang; Buchel, Karl H.; Frohberger, Paul-Ernst; Brandes, Wilhelm; and Lurssen, Klaus, 4,715,887, Cl. 71-92.000.
- Marzolph, Gerhard; Blank, Heinz U.; Reinecke, Paul; Brandes, Wilhelm; and Hanssler, Gerd, 4,666,935, Cl. 514-424.000.
- Oeckl, Siegfried; Reinecke, Paul; Brandes, Wilhelm; Kuck, Karl-Heinz; Paulus, Wilfried; and Genth, Hermann, 4,661,632, Cl. 564-217.000.
- Salzburg, Herbert; Hajek, Manfred; Hagemann, Hermann; Kuhle, Engelbert; Fuhrer, Wolfgang; Hanssler, Gerd; Brandes, Wilhelm; and Reinecke, Paul, 4,713,389, Cl. 514-373.000.
- Sasse, Klaus; Brandes, Wilhelm; Hanssler, Gerd; Reinecke, Paul; Schmitt, Hans-Georg; and Paulus, Wilfried, 4,663,327, Cl. 514-275.000.

Brandfield, Robert T. Surgical forceps/scissors. 4,669,470, 6-2-87, Cl. 128-318.000.

Brandi, Roberto: *See*—

- De Meio, Apollonio; and Brandi, Roberto, 4,664,558, Cl. 405-224.000.
- Sebastiani, Gaetano; Brandi, Roberto; Di Lena, Francesco; Vanore, Silvestro; and Carraro, Roberto, 4,695,193, Cl. 405-204.000.

Brandimarte, Umberto L. Leveling tool. 4,648,185, 3-10-87, Cl. 33-189.000.

Brandino, Mario: *See*—

- Bossotto, Piero; and Brandino, Mario, 4,682,722, Cl. 228-41.000.

Brandiser, Herbert: *See*—

- Link, Christoph; and Brandiser, Herbert, 4,658,621, Cl. 72-243.000.

Brandl, Erich, to Voest-Alpine Aktiengesellschaft. Cutting machine. 4,641,889, 2-10-87, Cl. 299-75.000.

Brandl, Erich, to Voest-Alpine Aktiengesellschaft. Cutting machine. 4,669,785, 6-2-87, Cl. 299-68.000.

Brandl, Gerhard: *See*—

- Bonisch, Heinz-Jurgen; Brandl, Gerhard; Noor, Sybille; Oehling, Karl-Heinz; Riedl, Walter; Theissen, Mario; Wodiczka, Ernst; and Macht, Alwin, 4,691,670, Cl. 123-52.0MF.

Brandl, Hans; and Liegl, Werner, to Siemens Aktiengesellschaft. Circuit for electronic speech synthesis. 4,694,496, 9-15-87, Cl. 381-51.000.

Brandl, Rudolf; and Matt, Heinz, to Heckler & Koch GmbH. Magazine for automatic weapons. 4,681,019, 7-21-87, Cl. 89-33.040.

Brandle, Charles D., Jr.; Fratello, Vincent J.; and Wolfe, Raymond, to American Telephone and Telegraph Company, AT&T Bell Laboratories. Magnetic device and method of manufacture. 4,698,820, 10-6-87, Cl. 372-41.000.

Brandli, Max, and Feldmann, Hansueli, to JD-Technologie AG. Joint for a transversely separated vehicle. 4,690,422, 9-1-87, Cl. 280-460.00R.

Brandli, Max: *See*—

- Feldmann, Hansueli; and Brandli, Max, 4,635,982, Cl. 293-2.000.

Brandner, Alois, to Siemens Aktiengesellschaft. Device for sensing a recording medium in a line printer. 4,639,607, 1-27-87, Cl. 250-561.000.

Brandoli, Luigi, to ELCAT Direzione Sviluppo S.p.A. Envelope for housing and fixing an adjustment rod adjusting the position of a motorcar seat. 4,685,734, 8-11-87, Cl. 297-355.000.

Brandon, Craig A.: *See*—

- Thomas, Ronald L.; Titus, Terry C.; and Brandon, Craig A., 4,716,044, Cl. 426-51.000.

Brandon, George M., to Textron, Inc. Electronic voltage regulator. 4,697,135, 9-29-87, Cl. 322-24.000.

Brandon, Howard R., Jr.; Ball, Dean M.; and Guest, Joanathan D. t SodaMaster Company of America, The. Gasification of fluids. 4,660,740, 4-28-87, Cl. 222-1.000.

Brandon, Larry L. Hull protecting fender apron. 4,653,419, 3-31-87, C 114-219.000.

Brandon, Ronald E.; and Winger, James W. Electronic method o locating a football. 4,675,816, 6-23-87, Cl. 364-410.000.

Brands, George B.; and Carlson, James R., to American Roller Company. Gap filler blanket for printing cylinder. 4,635,550, 1-13-87, C 101-415.100.

Brands, Karl-Dieter: *See*—

- Wuhrmann, Juan C.; Mueller, Heinz; Brands, Karl-Dieter; Asbeck, Adolf; and Heidrich, Jochen, 4,655,960, Cl. 252-321.000.
- Wuhrmann, Juan C.; Mueller, Heinz; Brands, Karl-Dieter; Asbeck, Adolf; and Heidrich, Jochen, 4,655,961, Cl. 252-321.000.

Brandsberg, Timothy A.; and Pillow, Ronald C., to Babcock & Wi Company, The. Stud/bolt load gauge. 4,636,120, 1-13-87, C 411-14.000.

Brandsetter, Robert W.; Schwarz, Jakob; and Seidon, Arnold, to Grumman Aerospace Corporation. Adaptive spread spectrum radar. 4,679,048, 7-7-87, Cl. 342-61.000.

Brandsma, Titus E. C.: *See*—

- Vriens, Leendert; Spruit, Johannes H. M.; Rijpers, Johannes C. N and Brandsma, Titus E. C., 4,634,926, Cl. 313-474.000.
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Brandstatter, Horst, to Geobra Brandstatter GmbH & Co. KG. Tele phone installations. 4,636,585, 1-13-87, Cl. 379-167.000.

Brandstatter, Wolfgand, to Schrack Elektronik - Aktiengesellschaf Current converter. 4,665,475, 5-12-87, Cl. 363-56.000.

Brandstetter, Robert W.; Fonneland, Nils J.; and Lindig, Charles E., t Grumman Aerospace Corporation. Fourier plane recursive optica filter. 4,645,300, 2-24-87, Cl. 350-162.120.

Brandstetter, Robert W.; Doucette, Adrian R., deceased (by Doucett Mary Alyce, executrix); Kaplan, Herman; Lindig, Charles E.; an Fonneland, Nils J., to Grumman Aerospace Corporation. Optical RF filtering system. 4,699,466, 10-13-87, Cl. 350-162.120.

Brandstrom, Arne E.; Lindberg, Per L.; and Wallmark, Bjorn, to Ak tiebolaget Hassle. Sulphenamides. 4,636,499, 1-13-87, Cl. 514-222.00

Brandstrom, Arne E.: *See*—

- Ankner, Kjell F.; Brandstrom, Arne E.; Lindberg, Per L.; Nord berg, Mats P.; and Wallmark, Bjorn M. G., 4,689,331, C 514-338.000.

Brandt, Alan E.; and Houghton, Paul. Plant nutrient compositio 4,699,644, 10-13-87, Cl. 71-27.000.

Brandt, Bernd A. Spring-loaded suspension system for augers and scre anchors. 4,697,648, 10-6-87, Cl. 173-162.00R.

Brandt, Bertil, to Socared S.A. Rope and a mooring device, particular for clamping goods mooring ships and anchoring floating landin stages, buoys, navigation marks and the like. 4,640,212, 2-3-87, C 114-230.000.

Brandt, Brenda: *See*—

- Zollinger, Wendell D.; Boslego, John; Moran, Ellen; Brand Brenda; Collins, Hugh; Mandrell, Robert; Altieri, Patricia; an Berman, Sanford, 4,707,543, Cl. 530-402.000.

Brandt, David E.: *See*—

- Young, Ronald L.; Rock, Eugene F.; and Brandt, David E. 4,671,572, Cl. 297-349.000.

Brandt Engineering Company: *See*—

- Zilbermann, Andre H., 4,633,937, Cl. 165-22.000.

Brandt, Georg, to GMN Georg Muller Nurnberg GmbH. Method fo machining workpieces of brittle hard material into wafers. 4,663,8 5-12-87, Cl. 51-283.00R.

Brandt, Gordon C. Animation system for walk-around costume 4,660,033, 4-21-87, Cl. 340-825.720.

Brandt, Helmut: *See*—

- Ding, Kurt; Brandt, Helmut; and Wenzl, Josef, 4,703,326, C 340-870.160.

Brandt, Henry R.; Gannon, Patrick M.; Leung, Wan L.; and Marchi Timothy R., to International Business Machines Corporation. Fa two-level dynamic address translation method and means. 4,695,9 9-22-87, Cl. 364-200.000.

Brandt, Hermann; Fischer, Hermann; Dreher, Hermann; Heil, Eduar Hambrecht, Juergen; Naarmann, Herbert; Echte, Adolf; Gausepoh Hermann; Siebel, Peter; Swoboda, Johann; Schwoebel, Gerd; an Nikles, Albert, to BASF Aktiengesellschaft. Preparation of po phenylene ethers, and an apparatus for this purpose. 4,696,9 9-29-87, Cl. 528-214.000.

Brandt, Horst, to Richter-System GmbH & Co. KG. Self-cutting fa construction screw. 4,655,661, 4-7-87, Cl. 411-387.000.

Brandt, Inc.: *See*—

- Larkin, Francis; and Amey, Jeffrey, 4,674,060, Cl. 364-567.000.
- Sherman, William, III; Larkin, Francis C.; and Horvath, Stephen J. 4,671,502, Cl. 271-4.000.
- Sherman, William, III; Larkin, Francis C.; and Horvath, Stephen J. 4,703,172, Cl. 250-223.00R.
- Sherman, William, III; Larkin, Francis C.; and Horvath, Stephen J. 4,707,599, Cl. 250-223.00R.
- Taipale, Dale L.; and Brome, John G., 4,682,288, Cl. 364-406.00
- Taylor, Lawrence D., 4,709,914, Cl. 271-263.000.
- Taylor, Lawrence D., 4,711,441, Cl. 271-6.000.
- Taylor, Lawrence D., 4,716,286, Cl. 250-214.00R.
- Winkler, Theodore; and Burger, Fredric W., 4,660,822, C 271-10.000.

Brandt, Kerryn A.; Goldman, Stephen A.; and Inglin, Thomas A., to Proctor & Gamble Company, The. Hydrogel-forming polymer compositions for use in absorbent structures. 4,654,039, 3-31-87, Cl. 604-368.000.

Brandt, Lennart H., to AB Volvo Penta. Propeller drive for boats. 4,698,036, 10-6-87, Cl. 440-62.000.

Brandt, Lloyd W. Device for cleaning paint rollers. 4,672,987, 6-16-87, Cl. 134-138.000.

Brandt, Lothar, and Felcht, Utz-Hellmuth, to Hoechst Aktiengesellschaft. Ethers of beta-cyclodextrin and a process for their preparation. 4,638,058, 1-20-87, Cl. 536-103.000.

Brandt, Louis. Anti-theft trailer assembly and trailer hitch lock. 4,691,935, 9-8-87, Cl. 280-507.000.

Brandt, Maurice W.: *See*—

Swiatlowski, George J.; Trapp, Donald P.; Liescheidt, Duane B.; McDaniel, Arden G.; and Brandt, Maurice W., 4,673,078, Cl. 198-450.000.

Brandt, Nils, to ASEA Aktiebolag. Digital impedance relay. 4,636,909, 1-13-87, Cl. 361-80.000.

Brandt, Nils and Karlsson, Anders, to ASEA Aktiebolag. Phase-locked sampling of a periodic signal. 4,646,004, 2-24-87, Cl. 324-79.00R.

Brandt, Raymond W. Bullet affecting/deflecting material. 4,633,528, 1-6-87, Cl. 2-2.500.

Brandt, Sherry L.: *See*—

Anderson, Arthur B., and Brandt, Sherry L., 4,681,578, Cl. 604-385.00R.

Brandt, Timothy B.; and Parr, Erwin W., to Parr Manufacturing, Inc. Pressure regulator. 4,633,901, 1-6-87, Cl. 137-510.000.

Brandt, Vernon O., to Ethyl Corporation. Perfluoroalkylnaphthalene compounds. 4,699,993, 10-13-87, Cl. 558-423.000.

Brandyberry, Dennis R., and Rye, Grover W., to Goodyear Tire & Rubber Company, The. Method of making a metallic cable. 4,650,531, 3-17-87, Cl. 156-166.000.

Branemark, Per-Ingvar, to Institute for Applied Biotechnology, The. Positive cast model of an upper and lower jaw, and a method and means for producing such a model. 4,708,654, 11-24-87, Cl. 433-213.000.

Branemark, Per-Ingvar; Kasemo, Bengt; and Lausmaa, Jukka. Method of packaging artificial implants in sterile and contamination-free manner and a package therefor. 4,712,681, 12-15-87, Cl. 206-438.000.

Brangan, Richard W.: *See*—

Beach, Stanley H., and Brangan, Richard W., 4,705,019, Cl. 126-39.00E.

Branick Industries, Inc.: *See*—

Pederson, Loren K.; and Curtis, Richard A., 4,669,417, Cl. 118-44.000.

Branigan, John T., and Malaise, Jacques J., to General Dynamics, Pomona Division. Dual mode target seeking system. 4,698,638, 10-6-87, Cl. 343-725.000.

Branigan, John T.; and Vess, David J., to General Dynamics, Pomona Division. Five-port monopulse antenna feed structure with one dedicated transmit port. 4,712,110, 12-8-87, Cl. 343-779.000.

Brann, Dale: *See*—

Hirsch, Gerald B.; Volk, Stanley; Cirrito, William; and Brann, Dale, 4,680,815, Cl. 2-171.300.

Brann, David E.; and Lindsay, James E., to General Motors Corporation. Iron piston having selectively hardened ring groove. 4,643,079, 2-17-87, Cl. 92-222.000.

Brannigan, Michael J.; and Rutledge, David L., to Harris Corporation. Redundant row decoding for programmable devices. 4,639,896, 1-27-87, Cl. 365-200.000.

Brannon, Robert C.; Sage, Donald B., Jr.; and Miller, David G., to Owens-Corning Fiberglas Corporation. Size compositions for glass fibers. 4,683,254, 7-28-87, Cl. 523-503.000.

Brannstam, Gunilla. Apparatus for arm and leg exercise. 4,635,931, 1-13-87, Cl. 272-130.000.

Brannstrom, Olav H.: *See*—

Skillen, John D.; Coons, Melvin S.; and Brannstrom, Olav H., 4,649,668, Cl. 49-374.000.

Brannstrom, Roine, to ASEA Stal AB. Method of drying granular fuel in a fluidized bed combustion plant and a combustion plant with a drying device. 4,640,205, 2-3-87, Cl. 110-347.000.

Brannstrom, Roine; and Mansson, Martin, to ASEA Stal Ab. Plant for the combustion of particulate fuel in a fluidized bed. 4,655,147, 4-7-87, Cl. 110-263.000.

Brannstrom, Roine, to Asea Stal Aktiebolag. PFBC plant with a monitoring device for detecting erosion damage. 4,669,395, 6-2-87, Cl. 110-216.000.

Brannstrom, Roine. Apparatus for conveying particulate material from a pressurized container. 4,699,210, 10-13-87, Cl. 165-120.000.

Brannstrom, Roine, to Asea Stal Aktiebolag. Pneumatic transportation system with a material feeder. 4,705,433, 11-10-87, Cl. 406-63.000.

Branom, David E., to McKnight Road Enterprises, Inc. Clothing with illuminated display. 4,709,307, 11-24-87, Cl. 362-103.000.

Branovich, Louis E.; Freeman, Gerard L.; and Smith, Bernard, to United States of America, Army. Method of making a long lived high current density cathode from tungsten and iridium powders. 4,708,681, 11-24-87, Cl. 445-50.000.

Branscomb Corporation N.V.: *See*—

Sullivan, Leroy J., 4,644,866, Cl. 102-439.000.

Sullivan, Leroy J., 4,700,630, Cl. 102-439.000.

Branscomb, Patricia M.: *See*—

Antonelli, Douglas C.; Branscomb, Patricia M.; Broockman, Eric C.; Dickson, LeRoy D.; Koppel, Caralee P.; Ossowski, Richard; and Stokes, Olen L., Jr., 4,713,785, Cl. 364-569.000.

Branson, Christopher W.; and Sullivan, Steven K., to Tektronix, Inc. Active load network. 4,712,058, 12-8-87, Cl. 324-23.00R.

Branson, Christopher W.: *See*—

Sullivan, Steven K.; and Branson, Christopher W., 4,707,620, Cl. 307-270.000.

Branson Ultrasonics Corporation: *See*—

Eichenauer, Karl-Friedrich, 4,648,777, Cl. 414-591.000.

Flood, Gary N., 4,690,722, Cl. 156-510.000.

Harris, Everett A.; and Jugler, John, 4,651,043, Cl. 310-323.000.

Holze, Ernest P., Jr., 4,711,693, Cl. 156-580.100.

Sager, Thomas B., 4,668,316, Cl. 156-73.100.

Branstetter, Ronald L.: *See*—

Edgar, Reuben W., Jr.; Gilstad, Dennis W.; and Branstetter, Ronald L., 4,714,080, Cl. 128-633.000.

Branston, Paul G.: *See*—

Adams, Joseph S.; and Branston, Paul G., 4,712,379, Cl. 60-632.000.

Branston, Randolph E.: *See*—

Ober, Christopher K., and Branston, Randolph E., 4,692,188, Cl. 106-23.000.

Brantjen & Kluge, Inc.: *See*—

Palmer, Robert W., 4,653,741, Cl. 271-90.000.

Brantl, Victor. Pharmacologically active peptides. 4,657,892, 4-14-87, Cl. 514-16.000.

Brantl, Victor; Bomann, Werner; and Schill, Herbert, to Boehringer Ingelheim KG. Agent for lowering serum prolactin levels. 4,707,475, 11-17-87, Cl. 514-215.000.

Brantl, Victor: *See*—

Teschemacher, Hansjorg; Brantl, Victor; Henschen, Agnes; and Lottspeich, Friedrich, 4,681,871, Cl. 514-15.000.

Brantman, Eugene R., to Nutri-Fuels Systems, Inc. Nutritional composition for enhancing skeletal muscle adaptation to exercise training. 4,687,782, 8-18-87, Cl. 514-561.000.

Branyon, William R.: *See*—

Cline, David M.; Branyon, William R.; and Voelzow, Norman E., 4,654,945, Cl. 29-401.100.

Brar, Gurdip S.; and Nelson, Oliver, to Agracetus. Genic male-sterile maize. 4,654,465, 3-31-87, Cl. 800-1.000.

Bras, Adrianus: *See*—

Kurvers, Hedwigus A. M. H.; and Bras, Adrianus, 4,646,450, Cl. 37-72.000.

Bras, Johan C. M.; and Wevers, Hendrik W., to SKF Industrial Trading and Development Company B.V. Lip sealing ring with tow rows of projections and for a rotary shaft. 4,671,519, 6-9-87, Cl. 277-134.000.

Bras, Johan Chr. M.; and Lankamp, Herman D., to SKF Industrial Trading & Development Company B.V. Seal for a roller bearing. 4,639,149, 1-27-87, Cl. 384-477.000.

Brasch, Miles E.; and Campbell, Allan G., III, to A.R. Brasch Advertising, Inc. Multiple axis hinged display assembly. 4,633,607, 1-6-87, Cl. 40-530.000.

Brasch, William R., to LeaRonal, Inc. Method of making copper colloid for activating insulating surfaces. 4,681,630, 7-21-87, Cl. 106-1.110.

Brasel, Timothy C.: *See*—

Hibbert, David A.; Newmark, Larry J.; Smith, James I.; Brasel, Timothy C.; and Wung, Peter C. F., 4,675,782, Cl. 361-356.000.

Brasey, Pierre-Noel, to Seuref A.G. Vasculoprotecting pharmaceutical compositions. 4,707,360, 11-17-87, Cl. 424-94.100.

Brasfield, Laurence C., to Applied Microsystems Corporation. Method and apparatus for locating short circuits. 4,656,416, 4-7-87, Cl. 324-52.000.

Brashears, David W., to Honeywell Inc. Shielded keyboard. 4,671,688, 6-9-87, Cl. 400-714.000.

Brashler, Mike G.: *See*—

Husher, Frederick K.; Mickanin, Wesley C.; and Brashler, Mike G., 4,650,277, Cl. 350-96.200.

Brasques, Alain; and Maures, Michel, to Societe Nationale des Poudres et Explosifs. Combustible or semi-combustible case bodies consisting of a large number of combustible paper tapes and a process of manufacturing them. 4,649,827, 3-17-87, Cl. 102-431.000.

Brass-Craft Manufacturing Company: *See*—

Freed, Marvin, 4,698,859, Cl. 4-393.000.

Maxwell, Reginald R.; Budzinski, Walter J.; Kuttruff, Manfred K.; Stanish, Leo S.; and Turner, Larry G., 4,647,086, Cl. 285-342.000.

Brass, Jack L.: *See*—

Duran, Reginald F.; and Brass, Jack L., 4,667,396, Cl. 29-611.000.

Brass, Robert L.; Glaberson, John; Mason, Richard W.; L'Heureux, Arthur J., III; Santulli, Scott; Roth, G. Thomas; Frega, John; and Imiolek, Henry S., to Cauzin Systems, Incorporated. Optical reader for printed bit-encoded data and method of reading same. 4,692,603, 9-8-87, Cl. 235-454.000.

Brass, Stephen G.: *See*—

Croudace, Michael C.; Wusz, Timothy; and Brass, Stephen G., 4,699,629, Cl. 44-79.000.

Jessup, Peter J.; Brass, Stephen G.; and Croudace, Michael C., 4,647,292, Cl. 44-66.000.

Brass, Walter, to H. Krieghoff GmbH. Firearm with tiltable barrel. 4,646,459, 3-3-87, Cl. 42-47.000.

Brassard, Pierre: *See*—

Leveille, Serge; Cormier, Jacqueline; Cormier, Ginette; and Brassard, Pierre, 4,694,284, Cl. 340-574.000.

Brassat, Bert: *See*—

Mues, Peter; Buysch, Hans-Josef; Brassat, Bert; and Heine, Heinrich, 4,694,065, Cl. 528-371.000.

Mussig, Bernhard; Meyer, Rolf-Volker; and Brassat, Bert, 4,677,156, Cl. 525-425.000.

Richter, Wolfgang; Buysch, Hans-Josef; Brassat, Bert; Merten, Josef; and Haupt, Heinrich, 4,656,228, Cl. 525-433.000.

Brassert, Walter L.; and Heitmann, Arnold M., to Northern Research & Engineering Corp. Fog oil smoke generator. 4,697,520, 10-6-87, Cl. 102-334.000.

Brassfield, Brian. Doll having means to convert from one character to another. 4,639,233, 1-27-87, Cl. 446-321.000.

Brassington, Stanley J. Vehicular headlight/running lights safety flasher device. 4,648,005, 3-3-87, Cl. 361-179.000.

Brassner, Joseph L.: *See*—

  Alperin, Marvin; and Brassner, Joseph L., 4,651,362, Cl. 5-12.00R.

Brasuell, Larry R.; and Olson, Clayton E. Locking apparatus. 4,678,213, 7-7-87, Cl. 292-37.000.

Brasz, Albert J. H.: *See*—

  Nagtzaam, Nicolaas P.; Bronke, Cornelis; and Brasz, Albert J. H., 4,686,279, Cl. 528-501.000.

Bratchley, Robin: *See*—

  Whitehead, Colin J.; Bratchley, Robin; and Haslop, John M., 4,645,240, Cl. 283-74.000.

Bratke, Dieter N.: *See*—

  Gallion, Georg A.; Bratke, Dieter N.; Helbig, Klaus; and Reuter, Karl F., 4,640,450, Cl. 224-331.000.

Bratkowski, Walter V.; and Wafer, John A., to Westinghouse Electric Corp. Integral circuit interrupter with separable modules. 4,680,562, 7-14-87, Cl. 335-16.000.

Bratkowski, Walter V.: *See*—

  Chien, Yun-Ko N.; Wafer, John A.; and Bratkowski, Walter V., 4,654,614, Cl. 335-201.000.

Bratt, Harold V.: *See*—

  Barker, James M.; and Bratt, Harold V., 4,671,336, Cl. 166-285.000.

Bratt, Jan C., to United Stirling AB. Hot gas engine heater head. 4,665,700, 5-19-87, Cl. 60-517.000.

Bratt, Richard G.: *See*—

  Bachman, Brett L.; Bernstein, David H.; Bratt, Richard G.; Clancy, Gerald F.; Gavrin, Edward S.; Gruner, Ronald H.; Jones, Thomas M.; Katz, Lawrence H.; Mundie, Craig J.; Pilat, John F.; Richmond, Michael S.; Schleimer, Stephen I.; Wallach, Steven J.; and Wallach, Walter A., Jr., 4,656,579, Cl. 364-200.000.

  Clancy, Gerald F.; Mundie, Craig J.; Schleimer, Stephen I.; Wallach, Steven J.; Bratt, Richard G.; and Gavrin, Edward S., 4,660,142, Cl. 364-200.000.

  Gruner, Ronald H.; Clancy, Gerald F.; Mundie, Craig J.; Schleimer, Stephen I.; Wallach, Steven J.; Bratt, Richard G.; Gavrin, Edward S.; Wallach, Walter A., Jr.; Ahlstrom, John K.; Richmond, Michael S.; Bernstein, David H.; Pilat, John F.; Farber, David A.; and Belgard, Richard A., 4,675,810, Cl. 364-200.000.

  Wallach, Walter A., Jr.; Richmond, Michael S.; Ahlstrom, John K.; Bernstein, David H.; and Bratt, Richard G., 4,661,903, Cl. 364-200.000.

Brattan, Keith: *See*—

  Wardle, Ian; and Brattan, Keith, 4,648,953, Cl. 204-237.000.

Bratten, Jack R. Horizontal drum filter having a drive wheel and interfitting tube sections. 4,670,143, 6-2-87, Cl. 210-234.000.

Bratten, Jack R. Method and apparatus for removing paint overspray. 4,684,378, 8-4-87, Cl. 55-96.000.

Bratton, Ronald E.; Gigandet, Richard W.; Henke, Mitchell C.; Kaminski, Daniel S.; and Wibel, Michelle A., to Lincoln Foodservice Products, Inc. Impingement and steam oven apparatus for preparing food products. 4,701,340, 10-20-87, Cl. 426-511.000.

Bratton, Ronald E.: *See*—

  Gorsuch, Roger K.; Bell, Gordon D.; Henke, Mitchell C.; Wibel, Michelle; Bratton, Ronald E.; and Lee, Effie J., 4,676,151, Cl. 99-450.000.

Brattsand, Ralph L.: *See*—

  Axelsson, Bengt I.; Brattsand, Ralph L.; Dahlback, Carl M. O.; Kallstrom, Leif A.; and Trofast, Jan W., 4,693,999, Cl. 514-174.000.

Bratu, Polidor: *See*—

  Axinti, Gavril; Arama, Stefanica; Draghici, Ionel; Bratu, Polidor; Stanciu, Corneliu; Ghinea, Aurelian; Badulescu, Florin; and Diaconu, Cristian, 4,688,468, Cl. 91-317.000.

Brauch, Hans-Joachim: *See*—

  Neuhauser, Johannn; and Brauch, Hans-Joachim, 4,683,764, Cl. 74-41.000.

Brauch, Robert B.; Sedlatschek, Robert; and Huang, Pao-Ter, to SSMC Inc. Sewing machine frame cover and fastening therefor. 4,651,662, 3-24-87, Cl. 112-258.000.

Brauch, Robert B.; and Huang, Pao-Ter, to Singer Company, The. Control mechanism for sewing machine stitch forming mechanism. 4,658,743, 4-21-87, Cl. 112-448.000.

Braud, Societe Anonyme: *See*—

  Deux, Alain; Merant, Jean-Camille; Gibert, Francois; and Berger, Antoine, 4,707,973, Cl. 56-328.00R.

Braudaway, Gordon W.: *See*—

  Meltzer, Clifford B.; Kannan, Krishnamurthi; Burket, Thomas G.; Kruesi, Deborah J.; and Braudaway, Gordon W., 4,712,214, Cl. 371-32.000.

Brauer, Eric A., to RCA Corporation. Hole geometry for printed circuit boards. 4,646,204, 2-24-87, Cl. 361-403.000.

Brauer, Ilan; Bruggen, Gerhard; and Karr, Dieter, to Robert Bosch GmbH. Piezoelectric control block. 4,660,523, 4-28-87, Cl. 123-458.000.

Brauer, Melvin; Downey, William J.; and Naughton, Frank C., to CasChem, Inc. Ricinoleate plasticizers for polyurethane compositions. 4,666,969, 5-19-87, Cl. 524-310.000.

Brauer, Melvin; Downey, William J.; and Naughton, Frank C., to CasChem, Inc. Process for using ricinoleate plasticized polyurethanes for sealing electrical devices. 4,705,723, 11-10-87, Cl. 428-375.000.

Brauer, Melvin: *See*—

  Downey, William J.; Brauer, Melvin; and Chao, Jerry C., 4,666,968, Cl. 524-296.000.

  Downey, William J.; Brauer, Melvin; and Chao, Jerry C., 4,705,724, Cl. 428-375.000.

  Simone, Dominic; and Brauer, Melvin, 4,640,801, Cl. 260-407.000.

  Woods, William B.; Brauer, Melvin; Duneczky, Francis; Simone, Dominic; and Cope, John F., 4,664,908, Cl. 424-59.000.

Brauer, Robert C. Hot air heating system. 4,706,884, 11-17-87, Cl. 237-55.000.

Brauer, Roger. Tape cassette arrangement. 4,702,434, 10-27-87, Cl. 242-198.000.

Brauer, Wolfgang; Willenberg, Bernd; Korte, Siegfried; and Suling, Carlhans, to Bayer Aktiengesellschaft. Filler-containing acrylic and modacrylic fibres and a process for the production thereof. 4,643,946, 2-17-87, Cl. 428-372.000.

Brauerei Feldschlosschen: *See*—

  Schur, Fritz, 4,661,355, Cl. 426-14.000.

Brauers, Bert; and Morsbach, Martin, to Goetze AG. Piston ring assembly and expander. 4,695,064, 9-22-87, Cl. 277-139.000.

Brault, Robert G., to Hughes Aircraft Company. Method of developing radiation sensitive negative resists. 4,665,009, 5-12-87, Cl. 430-325.000.

Brault, Roland, to Thomson-CSF, France. Device for generating a fractional frequency of a reference frequency. 4,688,237, 8-18-87, Cl. 377-48.000.

Brauman, Daniel. Implantable prosthetic devices. 4,648,880, 3-10-87, Cl. 623-8.000.

Braun Aktiengesellschaft: *See*—

  Barowski, Karlheinz; and Berghammer, Conrad, 4,691,095, Cl. 219-222.000.

  Hoffmann, Harald, 4,670,864, Cl. 367-198.000.

  Kirchner, Horst, 4,671,259, Cl. 128-66.000.

  Kramer, Carolyn M., 4,665,637, Cl. 38-93.000.

  Kramer, Carolyn M., 4,702,933, Cl. 427-34.000.

  Kullen, Albrecht, 4,678,410, Cl. 417-423.00R.

  Majthan, Rudolf, 4,683,155, Cl. 428-35.000.

  Messinger, Werner; and Trollitsch, Karl, 4,649,762, Cl. 74-42.000.

  Messinger, Werner; and Trollitsch, Karl, 4,669,322, Cl. 74-42.000.

  Moravek, Peter; Trebitz, Bernd; Weller, Albrecht; and Amsel, Klaus, 4,685,229, Cl. 38-84.000.

  Schwarz, Gerhard, 4,706,009, Cl. 320-22.000.

  Ullmann, Roland, 4,669,189, Cl. 30-201.000.

  Wunder, Dieter, 4,667,587, Cl. 99-295.000.

  Yamac, Yucel, 4,634,836, Cl. 219-249.000.

Braun, Alan J.; Smith, Lawrence M.; and Wildman, Kelvin H., to Bausch & Lomb Incorporated. Portable contact lens disinfecting apparatus. 4,701,597, 10-20-87, Cl. 219-521.000.

Braun, Albert: *See*—

  Schrodter, Hermann; Braun, Albert; and Kampmann, Friedrich Wilhelm, 4,687,512, Cl. 75-58.000.

Braun, Anton. Bounce chambers for multi-cylinder linear engine compressors. 4,705,460, 11-10-87, Cl. 417-266.000.

Braun, Anton J. Piccolo flute. 4,714,000, 12-22-87, Cl. 84-384.000.

Braun, Camille; and de Neve, Michel, to Commissariat a l'Energie Atomique. Process for the preparation of a powder suitable for fritting. 4,654,048, 3-31-87, Cl. 23-293.00A.

Braun, Clarence: *See*—

  Zupanick, Joseph E.; and Braun, Clarence, 4,687,335, Cl. 356-416.000.

Braun Corporation, The: *See*—

  Braun, Ralph W.; Czech, Edward A.; and Heath, Keith L., 4,664,584, Cl. 414-541.000.

Braun, David B., to Union Carbide Corporation. Process for flocculating taconite tailings. 4,701,264, 10-20-87, Cl. 210-734.000.

Braun, David B.: *See*—

  Brode, George L., II; Kreeger, Russell L.; Goddard, Errol D.; Merritt, Frederick M., II; and Braun, David B., 4,663,159, Cl. 424-70.000.

Braun, David L.: *See*—

  Liggett, Paul E.; and Braun, David L., 4,668,535, Cl. 427-230.000.

Braun, Douglas J.: *See*—

  Carlson, Larry M.; and Braun, Douglas J., 4,691,600, Cl. 82-4.00C.

Braun, Ernst, to SKF-Textilmaschinen-Komponensten GmbH. Drive device, particularly for textile machines. 4,701,652, 10-20-87, Cl. 310-112.000.

Braun, Ernst: *See*—

  Braun, Gert; and Braun, Ernst, 4,637,268, Cl. 74-190.000.

  Braun, Gert; and Braun, Ernst, 4,643,296, Cl. 198-735.000.

  Braun, Gert; and Braun, Ernst, 4,645,265, Cl. 299-45.000.

  Braun, Gert; and Braun, Ernst, 4,715,658, Cl. 299-34.000.

Braun, Ernst P. Appliance for removal of burrs on flame-cut slabs blooms and billets. 4,685,192, 8-11-87, Cl. 29-526.400.

Braun, Eugene R., to Eaton Corporation. Clutch control system and clutch assembly using same. 4,638,898, 1-27-87, Cl. 192-0.052.

Braun, Eugene R.; and Schultz, Gary R., to Eaton Corporation. Central tire inflation system. 4,640,331, 2-3-87, Cl. 152-417.000.

Braun, Eugene R., to Eaton Corporation. Automatic clutch control. 4,646,891, 3-3-87, Cl. 192-0.032.

Braun, Eugene R., to Eaton Corporation. Fluid operated clutch override control system. 4,671,394, 6-9-87, Cl. 192-3.570.

Braun, Gert; and Braun, Ernst, to Halbach & Braun Industrieanlagen. Planer drive. 4,637,268, 1-20-87, Cl. 74-190.000.

Braun, Gert; and Braun, Ernst, to Halbach & Braun Industrieanlagen. Conveyor trough section construction. 4,643,296, 2-17-87, Cl. 198-735.000.

Braun, Gert; and Braun, Ernst, to Halbach & Braun Industrieanlagen. Roller cutter loader for mine. 4,645,265, 2-24-87, Cl. 299-45.000.

Braun, Gert; and Braun, Ernst, to Halbach & Braun Industrieanlagen. Planing machine for the mining of minerals. 4,715,658, 12-29-87, Cl. 299-34.000.

Braun, Gunter; Jundt, Werner; Miller, Norbert; and Nager, Jurgen, to Robert Bosch GmbH. Mixture metering arrangement for an internal combustion engine. 4,689,746, 8-25-87, Cl. 364-431.050.

Braun, Gunter: *See—*

Naunapper, Dietmar; and Braun, Gunter, 4,644,665, Cl. 34-26.000.

Braun, Hans; and Schneider, Georg, to Endress u. Hauser GmbH u. Co. Arrangement for contactless measurement of the velocity of a moving medium. 4,708,021, 11-24-87, Cl. 73-861.060.

Braun, Hans J.: *See—*

Berz, Gerhard; Braun, Hans J.; and Schlanzke, Claus G., 4,648,770, Cl. 414-30.000.

Braun, Hermann; Dumschat, Helmut; Strommer, Kurt; and Mueller, Sieghard, to L. Schuler GmbH. Intermediate storage in a transfer press. 4,641,515, 2-10-87, Cl. 72-405.000.

Braun, Hermann: *See—*

Mueller, Sieghard; Braun, Hermann; Dumschat, Helmut; and Trautwein, Hans-Juerger. 4,680,954, Cl. 72-405.000.

Braun, Hilarion, to Eastman Kodak Company. Fluid jet print head. 4,646,104, 2-24-87, Cl. 346-1.100.

Braun, Hilarion; and Bray, Fletcher, to Eastman Kodak Company. Ink jet print head. 4,683,477, 7-28-87, Cl. 346-75.000.

Braun, Hilarion; Lush, Linda M.; and Antolik, Ralph E., III, to Eastman Kodak Company. Method and apparatus for sensing satellite ink drop charge and adjusting ink pressure. 4,688,047, 8-18-87, Cl. 346-1.100.

Braun, Howard E.: *See—*

Tower, Stephen N.; Braun, Howard E.; Boyle, David E.; and Salton, Robert B., 4,693,862, Cl. 376-209.000.

Braun, Jane E.: *See—*

Rahn, Melanie H.; and Braun, Jane E., 4,639,226, Cl. 434-433.000.

Braun, Jean-Marie: *See—*

Stone, Gregory C.; Boggs, Steven A.; and Braun, Jean-Marie, 4,687,882, Cl. 174-102.0SC.

Braun, Jeffrey J.; and Cook, Kenneth M., to Motorola, Inc. Power driver having short circuit protection. 4,698,582, 10-6-87, Cl. 323-285.000.

Braun, Jeffrey J.: *See—*

MacAskill, Robert B.; and Braun, Jeffrey J., 4,682,082, Cl. 315-219.000.

Braun, Leroy O.: *See—*

Hendrix, James L.; and Braun, Leroy O., 4,682,336, Cl. 372-10.000.

Braun, Martin, to Machlett Laboratories, Incorporated, The. X-ray tube target having electron pervious coating of heat absorbent material on X-ray emissive surface. 4,637,042, 1-13-87, Cl. 378-143.000.

Braun, Oskar, to Pfaff Industriemaschinen GmbH. Material thickness sensing device for sewing machines. 4,686,917, 8-18-87, Cl. 112-311.000.

Braun, Oskar: *See—*

Jehle, Fritz; Willenbacher, Erich; Braun, Oskar; and Becker, Dietmar, 4,658,741, Cl. 112-262.100.

Braun, Ralph V., to Kimberly-Clark Corporation. Multilayer nonwoven fabric made with poly-propylene and polyethylene. 4,668,566, 5-26-87, Cl. 428-286.000.

Braun, Ralph W.; Czech, Edward A.; and Heath, Keith L., to Braun Corporation, The. Rotary wheelchair lift. 4,664,584, 5-12-87, Cl. 414-541.000.

Braun, Robin M., to Plessey South Africa Limited. RF oscillator frequency stabilizing circuit using self-mixing with reference frequency. 4,634,999, 1-6-87, Cl. 331-4.000.

Braun, Roland, to RASCHIG GmbH. Packing element for use in mass transfer or heat transfer columns. 4,643,853, 2-17-87, Cl. 261-112.000.

Braun, Rudolf; and Jensen, Richard, to Boeing Company, The. Composite leading edge/spar member for an aircraft control surface. 4,657,615, 4-14-87, Cl. 156-245.000.

Braun, Rudolf K., to Potters Industries, Inc. Method for making spherical particles. 4,643,753, 2-17-87, Cl. 65-21.300.

Braun, Ruediger: *See—*

Gaedcke, Harald; Braun, Ruediger; and Bauer, Roland, 4,643,772, Cl. 106-304.000.

Braun, Walter; Kersten, Reinhard; and Kuhl, Egbert, to U.S. Philips Corporation. Cooker with means for automatically controlling the heating of a pan with food material. 4,714,822, 12-22-87, Cl. 219-449.000.

Braun, Warren L.; and Curt, Walter M., to ComSonics, Inc. Portable sampling spectrum analyzer. 4,685,065, 8-4-87, Cl. 364-485.000.

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Brauner, William E.; Tomkinson, John G.; and Clausen, Eivind, to Allsop, Inc. Disc storage case. 4,655,342, 4-7-87, Cl. 206-45.180.

Braunig, Dietrich; Knoll, Meinhard; Laschinski, Joachim; and Fahrner, Wolfgang, to Hahn-Meitner-Institut Berlin GmbH. Forming deep buried grids of implanted zones being vertically and laterally offset by mask MEV implant. 4,663,830, 5-12-87, Cl. 29-576.00B.

Brauning, Egon, to Protoned B.V. Work chair having a vertically adjustable chair support. 4,641,885, 2-10-87, Cl. 297-300.000.

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Braunling, Russell D., to Honeywell Inc. Selective proximity detector. 4,653,035, 3-24-87, Cl. 367-136.000.

Braunling, Russell D., to Honeywell Inc. Light vehicle range discriminator. 4,661,939, 4-28-87, Cl. 367-136.000.

Brauns, Douglas A.: *See—*

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Laske, Gerd; and Valentin, Peter, 4,683,667, Cl. 34-203.000.

Braunsperger, Karl: *See—*

von Au, Gunther; Braunsperger, Karl; Huhn, Karl; and Kovar, Ingomar, 4,652,662, Cl. 549-215.000.

Braunstein, David M.: *See—*

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Bickle, Wolfgang; Braus, Jurgen; and Baureis, Hans-Paul, 4,666,787, Cl. 428-550.000.

Brausfeld, Walter; Gottling, Helmut; Moller, Rudolf; Muller, Peter; and Scharnowski, Gerhard, to WABCO Westinghouse Steuerungstechnik GmbH & Co. Position-sensing potentiometer arrangement. 4,656,457, 4-7-87, Cl. 338-176.000.

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Brautigam, Peter F., to Deere & Company. Device holding seat in raised position. 4,696,508, 9-29-87, Cl. 296-65.00R.

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Bravet, Jean L.; Colmon, Daniel; Daude, Gerard; and Moncheaux, Michel J., to Saint Gobain Vitrage. Bilayer laminate and preformed sheet for use therein. 4,652,494, 3-24-87, Cl. 428-423.100.

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Bravin, Anna. Method of and device for controlling the transfer of articles from a first conveyor belt to predetermined locations on a second conveyor belt. 4,653,630, 3-31-87, Cl. 198-460.000.

Bravo, Francesco, to Bravo S.p.A. Dual-purpose machine for making ice cream and crushed-ice syrup drinks. 4,653,928, 3-31-87, Cl. 366-149.000.

Bravo, Francesco, to Bravo, S.p.A. Homogenizer device with improved valve for preparing whipped cream. 4,668,098, 5-26-87, Cl. 366-182.000.

Bravo, Hernan G.: *See—*

Malik, Vedpal S.; Semp, Bernard A.; Bravo, Hernan G.; and Teng, Daniel M., 4,685,478, Cl. 131-297.000.

Bravo S.p.A.: *See—*

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Brawn, Ronald J.: *See—*

Groshong, LeRoy E.; and Brawn, Ronald J., 4,671,796, Cl. 604-247.000.

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Brawner, Clarence A., Jr. Truck level sensing and indicating system. 4,682,145, 7-21-87, Cl. 340-52.00H.

Braxton, Benjamin D.; and Spector, George. Emergency generator battery system. 4,639,654, 1-27-87, Cl. 320-2.000.

Bray, Bernard D., to GTE Communication Systems Corporation. Method for adjusting and testing current sensors. 4,692,696, 9-8-87, Cl. 324-158.00R.

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Kay, Robert E.; Chan, Hakchill; Ju, Fred; and Bray, Burton A., 4,655,848, Cl. 148-1.500.

Bray, David J.; and Piper, Francis R., to Gaydon Technology Limited. Method and system for maintaining a spray pattern. 4,712,736, 12-15-87, Cl. 239-11.000.

Bray, Donald T., to Nimbus Water Systems, Inc. Water purification system. 4,711,723, 12-8-87, Cl. 210-652.000.

Bray, Donald T., to Nimbus Water Systems, Inc. Water purifier comprising stages mounted side-by-side to unitary header. 4,713,175, 12-15-87, Cl. 210-259.000.

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- Bray, Harry C., Jr., to Bowles Fluidics Corporation. Cold weather fluidic windshield washer method. 4,645,126, 2-24-87, Cl. 239-11.000.
- Bray, James W., to Champion International Corporation. Ultrafiltration system with regeneration control. 4,708,790, 11-24-87, Cl. 210-87.000.
- Bray, Lane A.: *See—*
  - Ryan, Jack L.; Bray, Lane A.; and Boldt, Allyn L., 4,686,019, Cl. 204-1.500.
- Bray, Richard L., to Eastman Kodak Company. Simplex to duplex copier apparatus. 4,640,607, 2-3-87, Cl. 355-14.00R.
- Bray, Thomas J., to Cooper Industries, Inc. Recloser control with independent memory. 4,680,706, 7-14-87, Cl. 364-492.000.
- Braychak, Joseph J.; and Casey, John P., Sr., to USM Corporation. Large secondary head rivet. 4,708,553, 11-24-87, Cl. 411-34.000.
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  - Harper, Raymond G., 4,672,300, Cl. 323-222.000.
- Brayer, Randall R., to Goodyear Tire & Rubber Company, The. High performance all-season tire tread. 4,702,292, 10-27-87, Cl. 152-209.00R.
- Brayman, Jack: *See—*
  - Zeitlin, Alexander; Brayman, Jack; and Zandel, Adam, 4,706,490, Cl. 72-455.000.
- Braymand, Robert, to Societe Nouvelle Baele Gangloff. Rail-tube holder for walking-beam conveyor. 4,690,270, 9-1-87, Cl. 198-774.000.
- Braymand, Robert, to Societe Nouvelle Baele Gangloff. Pasteurization apparatus. 4,704,958, 11-10-87, Cl. 99-470.000.
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  - Eaton, Favre E.; Brazant, James F.; and Thornton, Lawrence E., 4,701,713, Cl. 324-442.000.
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- Brazdil, James F., Jr.: *See—*
  - Ward, Michael D.; Brazdil, James F., Jr.; and Grasselli, Robert K., 4,655,891, Cl. 204-157.930.
- Brazelton, Carl L., to Stranco, Inc. Polymer feed system. 4,642,222, 2-10-87, Cl. 422-111.000.
- Brazelton, Carl L.; and Litherland, Troy C., to Stranco, Inc. Mixing apparatus. 4,688,945, 8-25-87, Cl. 366-156.000.
- Brazenor, William J.: *See—*
  - Cannon, Stuart R.; Brazenor, William J., Kneen, Peter W.; and Mullen, John L., 4,677,999, Cl. 135-117.000.
- Brazeway, Inc.: *See—*
  - Miller, Donald E., 4,679,289, Cl. 29-157.00R.
  - Miller, Donald E., 4,680,845, Cl. 29-157.00R.
- Braziel, Bobby G. Paint gun tip filter, atomizer and gasket combination. 4,667,884, 5-26-87, Cl. 239-590.000.
- Brazier, John F.; Young, Alan H.; Viney, John E.; and Sutton, Gordon W., to Tauranca Limited. Fluid fuel fired burner. 4,708,638, 11-24-87, Cl. 431-116.000.
- Brazier, William A.: *See—*
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- Brazil, Michael J., to Sealright Co., Inc. Reinforcing ring construction for containers. 4,708,283, 11-24-87, Cl. 229-5.500.
- BRD Company Limited: *See—*
  - Fisher, Leslie G., 4,650,440, Cl. 464-14.000.
  - Palmer, Bertram J., 4,681,556, Cl. 464-181.000.
- Brdr. Ludvigsen, Tommfrup APS: *See—*
  - Ludvigsen, Poul F. B., 4,710,084, Cl. 412-9.000.
- Breach, William D.; and Vaclavik, Edwin W., to Hydril Company. Chemical and heat resistant rubber composition. 4,684,687, 8-4-87, Cl. 524-291.000.
- Break, Douglas, to Ridgetown Ltd. Attachment for a vertical mill. 4,684,300, 8-4-87, Cl. 409-134.000.
- Break, Douglas G., to Tapco Products Company, Inc. Portable sheet bending brake. 4,671,094, 6-9-87, Cl. 72-319.000.
- Breakthru Industries, Inc.: *See—*
  - Appleton, Gregory H.; and Mikelk, Paul D., 4,714,122, Cl. 177-139.000.
- Brearey, Nicholas J.; and Burt, Harry G. P., to Knorr-Bremse AG. Parking brake control system. 4,645,271, 2-24-87, Cl. 303-14.000.
- Brearley, Malcolm; and Moseley, Richard B., to Lucas Industries public limited company. Vehicle braking system. 4,712,839, 12-15-87, Cl. 303-3.000.
- Breat, Francois: *See—*
  - Lauzier, Rene; Rollin, Jean; Choquelle, Jean; Dumas, Gerard; Breat, Francois; Rousson, Maurice; and Defour, Paule, 4,705,286, Cl. 280-281.00R.
- Breault, David S. Pet litter box system. 4,667,622, 5-26-87, Cl. 119-1.000.
- Breault, Richard D.; and Donahue, John, to International Fuel Cells, Inc. Porous plate for an electrochemical cell and method for making the porous plate. 4,652,502, 3-24-87, Cl. 429-13.000.
- Breault, Ronald W.: *See—*
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- Breaux, Connie C.; and Breaux, Roddy P. Sunbathing apparatus having water spray cooling means. 4,648,143, 3-10-87, Cl. 5-417.000.
- Breaux, Roddy P.: *See—*
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- Brebner, Gordon. Ski exerciser apparatus. 4,650,184, 3-17-87, Cl. 272-97.000.
- Brechbuhler, Fritz: *See—*
  - Ramseier, Hans-Ulrich; and Brechbuhler, Fritz, 4,715,314, Cl. 118-631.000.
- Brecher, Sergio M., to Bell Communications Research, Inc. Enhanced call-waiting service. 4,661,975, 4-28-87, Cl. 379-215.000.
- Brecht, Gerhard; and Sackmann, Dieter, to Marabuwerke Erwin Martz GmbH & Co. Electronic carriage brake for a drawing machine. 4,682,822, 7-28-87, Cl. 303-20.000.
- Brecht, William B.; and Misra, Sudhan S., to C & D Power Systems, Inc. Post seal and method of manufacture for lead-acid batteries. 4,683,647, 8-4-87, Cl. 29-623.200.
- Breck, Alan K.; and Mollison, Alistair N., to Du Pont Canada Inc. Blends of polyethylene and polybutenes. 4,657,982, 4-14-87, Cl. 525-240.000.
- Breck, Donald W., deceased: *See—*
  - Skeels, Gary W.; and Breck, Donald W., deceased, 4,711,770, Cl. 423-328.000.
- Breck, Stephen R., George D. Breck, heirs: *See—*
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- Breck, Steven E.; and Armbruster, George E., to Illinois Bell Telephone Company. Duct pulling tool. 4,659,126, 4-21-87, Cl. 294-93.000.
- Breckenfeld, Paul W.; Broughton, George L.; Gibbs, Ronald E.; Macier, James E.; and Petersen, H. Norman, to Outboard Marine Corporation. Marine engine cooling system valve assembly. 4,669,988, 6-2-87, Cl. 440-88.000.
- Breckenfeld, Paul W.: *See—*
  - Baltz, Gene F.; and Breckenfeld, Paul W., 4,660,516, Cl. 123-187.50R.
- Breckenridge, George J., Jr.: *See—*
  - Kalnin, Ilmar L., Goldberg, Harris A.; and Breckenridge, George J., Jr., 4,634,546, Cl. 252-506.000.
- Breckenridge, Virgil H. Agri-chemical spreader. 4,694,991, 9-22-87, Cl. 239-171.000.
- Breckwoldt, Robert G., to Tripar Incorporated. Smoking material. 4,693,266, 9-15-87, Cl. 131-359.000.
- BRECO Kunststoffverarbeitungs-GmbH & Co. KG: *See—*
  - Breher, Rudolf; and Kolling, Rudi, 4,711,346, Cl. 198-844.000.
- Bredbeck, Donald H.: *See—*
  - Meyer, Lawrence L.; and Bredbeck, Donald H., 4,643,701, Cl. 474-153.000.
- Breddam, Klaus; Johansen, Jack T.; and Widmer, Fred, to Carlsberg Biotechnology Ltd. A/S. Process for enzymatic replacement of the B-30 amino acid in insulins. 4,645,740, 2-24-87, Cl. 435-71.000.
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- Breddo, Inc.: *See—*
  - Forsythe, Curtis J., 4,695,469, Cl. 426-24.000.
- Brede, Hermann: *See—*
  - Ganter, Wolfgang; Flaig, Oskar; Oertel, Heinrich; Kaiser, Hans; Kussmaul, Ewald; and Brede, Hermann, 4,666,313, Cl. 368-205.000.
- Brede, Uwe; Kern, Heinz; and Kordel, Gerhard, to Dynamit Nobel Aktiengesellschaft. Inductive igniters with secondary coil. 4,651,254, 3-17-87, Cl. 361-248.000.
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- Brede, Uwe; and Kordel, Gerhard, to Dynamit Nobel Aktiengesellschaft. Electric detonator device. 4,690,056, 9-1-87, Cl. 102-202.200.
- Bredemeier-Klonki, Volker: *See—*
  - Annecke, Karl-Heinz; and Bredemeier-Klonki, Volker, 4,641,306, Cl. 371-25.000.
- Breden, Emile: *See—*
  - Bernard, Gilbert; Breden, Emile; and Lonardi, Emile, 4,714,396, Cl. 414-161,000.
- Bredenkamp, Gordon L., to Crucible S.A. Transistor base drive circuit. 4,684,879, 8-4-87, Cl. 323-289.000.
- Bredero Price, Inc.: *See—*
  - Jaremco, Gary J.; and Thompson, David G., 4,670,301, Cl. 427-195.000.
- Bredeweg, Robert A.: *See—*
  - Coyne, Brenton S.; Strandjord, Andrew J.; Spence, Mark W.; Willis, Reid S.; Bredeweg, Robert A.; and Stevens, Timothy S., 4,715,217, Cl. 73-61.10C.
  - Dooley, Edward J.; and Bredeweg, Robert A., 4,660,739, Cl. 221-70.000.
- Bredow, Walter: *See—*
  - Flick, Willi; and Bredow, Walter, 4,646,600, Cl. 83-136.000.
- Breed, Allen K., to Breed Corporation. Method and apparatus for gas generator initiation from external sensor. 4,711,466, 12-8-87, Cl. 280-741.000.
- Breed Corporation: *See—*
  - Breed, Allen K., 4,711,466, Cl. 280-741.000.
  - Breed, David, 4,715,617, Cl. 280-731.000.
  - Breed, David S., 4,666,182, Cl. 280-734.000.
  - Thuen, Ted, 4,671,726, Cl. 414-182.000.
- Breed, David, to Breed Corporation. Passenger compartment sensor with low bias. 4,715,617, 12-29-87, Cl. 280-731.000.

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Fister, Julius C.; and Breedis, John F., 4,649,083, Cl. 428-469.000.

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Breitkreuz, Helmut; Clement, Albrecht; Mayer, Dieter; Ruppmann, Claus; Walz, Dieter; Wild, Ernst; and Zechnall, Martin, to Robert Bosch GmbH. Apparatus for venting a fuel tank. 4,683,861, 8-4-87, Cl. 123-520.000.

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Breitscheidel, Hans-Ulrich: *See—*

Spielau, Paul; Kuhnel, Werner; Klaar, Karlo; Gaspar, Bertram; Weiss, Richard; Ulb, Horst; Breitscheidel, Hans-Ulrich; Klingberg, Gerd; and Fenske, Jurgen, 4,652,326, Cl. 156-244.110.

Brejnak, Jacek: *See—*

Traczyk, Jan; Brejnak, Jacek; and Kawalec, Krzysztof, 4,696,622, Cl. 415-211.000.

Brekke, James N.: *See—*

Gardner, Terry N.; Brekke, James N.; Krolikowski, Lawrence P.; and Devtraze, Raymond E., 4,657,116, Cl. 187-1.00R.

Brekle, Axel: *See—*

Lautenschlager, Hans-Heiner; Parnham, Michael J.; Leyck, Sigurd; Winkelmann, Johannes; and Brekle, Axel, 4,705,802, Cl. 514-438.000.

Brelko (Proprietary) Limited: *See—*

Kerst, Gerrit; and Kerst, Hendrik, 4,641,852, Cl. 280-489.000.

Brelsford, David P.; Cerutti, Daniel D.; Coleman, Leslie S.; Davison, Gerald A.; Dewey, Pamela H.; Enichen, Margaret C.; Hartley, Sarah T.; Malinowski, Paul A.; Rogers, Roger W.; Tallman, Peter H.; and Wilczak, Lynn A., to International Business Machines Corporation. Recovery of guest virtual machines after failure of a host real machine. 4,674,038, 6-16-87, Cl. 364-200.000.

Brem, Ernst, to BBC Brown, Boveri & Company, Limited. Electric machine. 4,634,909, 1-6-87, Cl. 310-91.000.

Brem, Ernst; and Merki, Josef, to BBC Brown, Boveri & Company, Limited. Stator body with laminated compression plates. 4,638,199, 1-20-87, Cl. 310-91.000.

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Bremanis, Gunar A.; Kalvinsh, Ivars Y.; Antsena, Irene B.; Lukevits, Edmund Y.; Veveris, Maris M.; Erenshtein, Marina L.; Mikazhan, Valdis D.; Kauss, Valeryans Y.; Liepinsh, Edvard E.; and Trapentsier, Petr T. 3-(2,2,2-trisubstituted hydrazinium) propionates. 4,704,403, 11-3-87, Cl. 514-554.000.

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Clarke, William, 4,641,562, Cl. 83-837.000.

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Seng, Florin; and Bremen, Josef, 4,695,652, Cl. 564-343.000.

Bremer, Gordon; Armstrong, Thomas; Holmquist, Kurt; and Smith, Richard K., to Paradyne Corporation. Non-interfering in-band protocol-independent diagnostic scanning in a digital multipoint communication system. 4,645,871, 2-24-87, Cl. 380-2.000.

Bremer, Gordon, to Paradyne Corporation. Method of measuring communication channel impairement in polling applications. 4,654,807, 3-31-87, Cl. 364-551.000.

Bremer, Gordon, to Paradyne Corporation. Method of determining automatically the rate of data signals in a modem. 4,663,766, 5-5-87, Cl. 375-13.000.

Bremer, Gordon: *See—*

Betts, William L.; Martinez, Kenneth; and Bremer, Gordon, 4,677,625, Cl. 371-43.000.

Bremer, Hans-Joachim: *See—*

Haarmann, Walter; and Bremer, Hans-Joachim, 4,705,489, Cl. 464-69.000.

Bremer, James C., to Barber-Greene Company-Telsmith Division. Torque limiter for gyratory crusher anti-spin clutch. 4,666,092, 5-19-87, Cl. 241-214.000.

Bremer, James C.; Hurt, Fred S.; Romanski, John G.; Kroupa, Richard F.; and Kraus, Ronald G., to Westinghouse Electric Corp. Concentric detector array and associated hybrid signal processing for coarse and fine electro-optical tracking. 4,713,533, 12-15-87, Cl. 250-203.00R.

Bremer, Noel J.; Dria, Dennis E.; Milberger, Ernest C.; Blum, Patricia R.; and Nicholas, Mark L., to Standard Oil Company, The. Maleic anhydride process. 4,647,673, 3-3-87, Cl. 549-260.000.

Bremer, Roger E.; Anthony, Charles, Jr.; and Chappel, Raymond M. Long-life biomedical transcutaneous drug application device and method of transcutaneous application of drugs. 4,693,711, 9-15-87, Cl. 604-306.000.

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Brems, John H. Weight responsive rotary retardation device. 4,679,666, 7-14-87, Cl. 188-290.000.

Brencher, Norbert: *See—*

Stober, Herbert; and Brencher, Norbert, 4,704,103, Cl. 604-175.000.

Brenci, Massimo: *See—*

Sottini, Stefano; Brenci, Massimo; Falciai, Riccardo; and Russo, Vera, 4,707,172, Cl. 65-3.110.

Brend, Ramon H. J.: *See—*

Beesley, Brian G.; Hurley, Clive; Brend, Ramon H. J.; Edwards, Thomas P.; Sherrell, Robert W. D.; and Vickery, Andrew J., 4,677,909, Cl. 100-229.000.

Brendel, Bernhard, to Eduard Kusters Maschinenfabrik GmbH & Co. KG. Method of controlling the line pressure distribution in a roll arrangement. 4,644,860, 2-24-87, Cl. 100-35.000.

Brendel, Josef: *See—*

Wenske, Hanno; Gallien, Arnold; Kauschinger, Martin; Unger, Klaus; Brendel, Josef; and Lampe, Lutz, 4,709,182, Cl. 310-316.000.

Brendel, Kathleen E.: *See—*

Luckey, George W.; Roth, Bernard; Brendel, Kathleen E.; and Den Dunne, Margaret S., 4,710,637, Cl. 250-486.100.

Brendel, Walter: *See—*

Hepp, Wolfgang; Forssmann, Bernd; Brendel, Walter; and Chaussy, Christian, 4,655,205, Cl. 128-132.00R.

Brender, David T.: *See—*

Kurtti, Gary R.; Ches, Gregory S.; Brender, David T.; and Senopole, John J., 4,684,077, Cl. 242-107.600.

Brendgord, Thomas; and Otte, George E., to American Sterilizer Company. Apparatus for transporting wheeled carriers. 4,687,215, 8-18-87, Cl. 280-79.10R.

Brendl, Rudolf; Hahn, Alfred; and Weiss, Karl, to Siemens Aktiengesellschaft. X-ray diagnostics installation including a tilting table. 4,697,802, 10-6-87, Cl. 269-323.000.

Breneman, Wayne: *See—*

O'Brien, Errol C.; Placko, Martin; and Breneman, Wayne, 4,646,769, Cl. 134-199.000.

Breneman, William C., to Union Carbide Corporation. High purity silane and silicon production. 4,676,967, 6-30-87, Cl. 423-347.000.

Breneman, William C.; and Reeser, David M., to Union Carbide Corporation. Disposal process for contaminated chlorosilanes. 4,690,810, 9-1-87, Cl. 423-335.000.

Brener, David: *See—*

Holbein, Bruce E.; Brener, David; Greer, Charles; and Browne, Eric N. C., 4,654,322, Cl. 502-403.000.

Brenholdt, Irving R., to Champion International Corporation. Apparatus and method for analyzing parameters of a fibrous substrate. 4,648,712, 3-10-87, Cl. 356-73.000.

Brenholdt, Irving R., to Champion International Corporation. Method and apparatus for controlling a particle refining process. 4,688,726, 8-25-87, Cl. 241-28.000.

Brenholt, David L., to Donaldson Company, Inc. Flexible-frame robot. 4,661,039, 4-28-87, Cl. 414-735.000.

Brenholt, David L.; Crane, Stephen M.; Fischer, Paul M.; and Mattson, Kenneth V., to Donaldson Company, Inc. Robot with articulated arm. 4,693,663, 9-15-87, Cl. 414-735.000.

Brenish, Michael; and Herzig, Frank. Combination joint raker and jointer. 4,682,383, 7-28-87, Cl. 15-105.500.

Brenman, Henry S.; Katz, Philip; and Beatty, Graydon E., to Biosonics, Inc. Apparatus for stimulating salivation. 4,637,405, 1-20-87, Cl. 128-787.000.

Brenman, Henry S.; Katz, Philip; and Schwartz, Harold L., to Biosonics, Inc. Method of making a body member for use in a genital stimulator. 4,663,102, 5-5-87, Cl. 264-222.000.

Brenman, Henry S.: *See—*

Katz, Philip; Brenman, Henry S.; Lowry, Louis D.; and Schwartz, Harold, 4,672,673, Cl. 381-70.000.

Brennan, Anthony; and Files, Edmee, to Coors Porcelain Company. Paste anhydride curing system for cast epoxy resin bodies and method for making the same. 4,657,992, 4-14-87, Cl. 525-482.000.

Brennan, John F.: *See—*

Lester, George R.; and Brennan, John F., 4,663,300, Cl. 502-66.000.

Brennan, John J.; and Novak, Richard C., to United Technologies Corporation. Lightweight fiber reinforced high temperature stable glass-ceramic abradable seal. 4,704,332, 11-3-87, Cl. 428-428.000.

Brennan, Leonard A.: *See—*

Michaud, Jocelyn P.; and Brennan, Leonard A., 4,648,372, Cl. 123-557.000.

Brennan, Michael E.; McDaniel, Kenneth G.; and Klein, Howard P., to Texaco Inc. Polyurethane foams based on amino polyols. 4,654,376, 3-31-87, Cl. 521-167.000.

Brennan, Michael E.: *See—*

Speranza, George P.; Brennan, Michael E.; and Grigsby, Robert A., Jr., 4,681,965, Cl. 558-162.000.

Brennan, Robert J.; Meighen, Terrence; and Phillipson, Walter M., to Stewart Stamping Corp. Printed circuit board jack for modular plug connector terminated cord. 4,641,901, 2-10-87, Cl. 339-14.00R.

Brennan, Robert J.: *See—*

Phillipson, Walter M.; Brennan, Robert J.; and Meighen, Terrence, 4,653,837, Cl. 339-143.00R.

Brennan, Robert M.: *See—*

Baitcher, Neal L.; and Brennan, Robert M., 4,646,874, Cl. 181-169.000.

Brennan, Thomas M.; and Glasheen, W. Michael, to Baird Corporation. Night vision reflex sight. 4,658,139, 4-14-87, Cl. 250-330.000.

Brennan, Thomas M.: *See—*

Jungkman, David L.; Nicholson, Peter N.; and Brennan, Thomas M., 4,661,707, Cl. 250-352.000.

Brennan, William J., Jr.; and Cottle, Charles A., to Neptune Water Meter Company. Frequency responsive apparatus for reading a meter over a telephone line. 4,674,113, 6-16-87, Cl. 379-107.000.

Brennand, Peter R.: *See—*

Beckley, John C.; Brennand, Peter R.; and Murray, Bruce, 4,665,427, Cl. 358-11.000.

Brennecke, Hermann; Liere, Horst; and Kiesel, Michael, to IRS Industrie Rationalisierungs-Systeme GmbH. Apparatus for producing positive or negative ions, especially for neutralizing charged workpieces. 4,638,398, 1-20-87, Cl. 361-214.000.

Brennecke, James H.; and Mace, Robert E., to BHA Group, Inc. Tensioning device for bag filters. 4,671,812, 6-9-87, Cl. 55-378.000.

Brenneman, Benjamin, to Babcock & Wilcox Company, The. Apparatus and method for continuously measuring mass flow. 4,703,660, 11-3-87, Cl. 73-861.380.

Brennen, Brad: *See—*

Joseph, James R.; Wesdock, James F.; Lerch, Allen; Chollock, Ronald; Waugaman, John; Lindberg, Glenn; Wymer, James R.; and Brennen, Brad, 4,655,349, Cl. 209-524.000.

Brennen, Michael B.; and Abbondanti, Alberto, to Westinghouse Electric Corp. Line fault tolerant synchronous timing reference generator for static VAR generators. 4,644,248, 2-17-87, Cl. 323-205.000.

Brennen, Michael B.: *See—*

Stacey, Eric J.; and Brennen, Michael B., 4,651,265, Cl. 363-35.000.

Brenner, Barnett S. Recirculating heating system. 4,709,855, 12-1-87, Cl. 237-12.30A.

Brenner, Bernhard: *See—*

Podolsky, Richard J.; Baker, Gordon R.; and Brenner, Bernhard, 4,693,606, Cl. 356-355.000.

Brenner, David: *See—*

Davison, Alan; Brenner, David; Lister-James, John; and Jones, Alun G., 4,673,562, Cl. 424-1.100.

Brenner, Heinrich: *See—*

Reuter, Horst; Quast, Jorn-Rainer; Maier, Peter; and Brenner, Heinrich, 4,697,793, Cl. 267-195.000.

Brenner, Heinz; Husch, Bruno; and Gollub, Erwin, to Goge GmbH and TRW Ehrenreich GmbH & Co. KG. Elastic articulation, coupling, or the like. 4,671,694, 6-9-87, Cl. 403-226.000.

Brenner, Heinz; Meyer, Heinrich; and Schmidt, Kurt, to BOGE GmbH. Rubber mounting with hydraulic damping. 4,697,794, 10-6-87, Cl. 267-195.000.

Brenner, Jacqueline N.: *See—*

Wrinn, Joseph F.; Heller, Lawrence; Chen, Jiann-Neng; and Brenner, Jacqueline N., 4,660,197, Cl. 371-1.000.

Brenner, Max, to Ciba-Geigy AG; and Brenner, Max, a part interest. Separating process. 4,698,159, 10-6-87, Cl. 210-634.000.

Brenner, Michael C.; and Fitzgibbon, James J., to Zenith Electronics Corporation. Surface acoustic wave touch panel system. 4,644,100, 2-17-87, Cl. 178-18.000.

Brenner, Peter; Fiala, Heinrich; and Walter, Wolfgang, to Georg Fischer Aktiengesellschaft. Centrifugal blasting machine having a rotatable workpiece holder. 4,662,125, 5-5-87, Cl. 51-419.000.

Brenner, Robert A., to Whirlpool Corporation. Additive dispenser for clothes dryer. 4,642,908, 2-17-87, Cl. 34-60.000.

Brenner, Robert A.: *See—*

Werner, Kurt; Malchow, Gregory L.; Carr, Keith E.; and Brenner, Robert A., 4,700,492, Cl. 34-32.000.

Brenner, Rolf; Jose, Horst-Udo; Jung, Gerd; and Koder, Robert, to Varta Batterie A.G. High temperature primary galvanic element. 4,650,680, 3-17-87, Cl. 429-129.000.

Brenner, Stanley S.; and Chase, Charles, to Leviton Manufacturing Company, Inc. Lockable lampholder mounting system. 4,661,885, 4-28-87, Cl. 361-346.000.

Brennstoffinstitut Freiberg: *See—*

Fleischer, Klaus; Gohler, Peter; Mangler, Rolf; Reuther, Christian; Schingnitz, Manfred; Berger, Friedrich; Gudymov, Ernest; Semenov, Vladimir; Fedotov, Vasilij; and Rodionov, Boris, 4,704,971, Cl. 110-264.000.

Gohler, Peter; Mangler, Rolf; Schingnitz, Manfred; Seidel, Wolfgang; Berger, Friedrich; Gudymov, Ernest; Semenov, Vladimir; Fedotov, Vasilij; and Gamburg, David, 4,710,202, Cl. 48-73.000.

Gudymov, Ernest; Fedotov, Vasilij; Semenov, Vladimir; Rodinov, Boris; Berger, Friedrich; Wenzel, Winfried; Peise, Helmut; and Schingnitz, Manfred, 4,707,163, Cl. 48-73.000.

Brent Chemicals International PLC: *See—*

Hutchings, David J., 4,641,518, Cl. 73-104.000.

Brent, George I., to Tallgrass Technologies, Inc. Mechanism for moving recording heads across computer tapes. 4,694,367, 9-15-87, Cl. 360-106.000.

Brent, James W., Jr.: *See—*

Tung, William C. T.; Wendling, Paul R.; and Brent, James W., Jr., 4,644,049, Cl. 528-272.000.

Brent, Richard J.: *See—*

Moss, Brian F.; and Brent, Richard J., 4,664,498, Cl. 354-313.000.

Moss, Brian F.; Brent, Richard J.; and Pilkington, Ian B., 4,678,307, Cl. 354-313.000.

Moss, Brian F.; and Brent, Richard J., 4,678,308, Cl. 354-313.000.

Moss, Brian F.; and Brent, Richard J., 4,678,309, Cl. 354-313.000.

Moss, Brian F.; and Brent, Richard J., 4,702,582, Cl. 354-331.000.

Brentini, Attilio: *See—*
Droz, Francois, 4,650,077, Cl. 206-566.000.

Brentwood Industries, Inc.: *See—*
Rye, Palle, 4,668,443, Cl. 261-112.000.

Bresciani, Paolo, to Tongiani Domenico S.p.A. Endless saw and method for cutting annular rock bodies. 4,633,848, 1-6-87, Cl. 125-21.000.

Bresin, Mark S.: *See—*
Marabotto, Eduardo J.; and Bresin, Mark S., 4,690,471, Cl. 439-63.000.
Marabotto, Eduardo J.; Bresin, Mark S.; and Drake, Bick R., 4,714,439, Cl. 439-627.000.

Breske, Carl D.; and Borning, Jeffrey M., to Control Data Corporation. Process for soldering and desoldering apertured leadless packages. 4,637,542, 1-20-87, Cl. 228-180.100.

Breslau, Steven M., to Sima Products Corporation. Video camera stabilizer. 4,687,309, 8-18-87, Cl. 354-82.000.

Breslawsky, Marc C.: *See—*
Beck, Christian A.; Breslawsky, Marc C.; and Forster, Hans R., 4,701,233, Cl. 156-217.000.

Breslin, Michael D.: *See—*
Rende, Dominic S.; and Breslin, Michael D., 4,657,946, Cl. 523-402.000.

Breslin, Michael K. Apparatus for recovery of liquid hydrocarbons from groundwater. 4,663,037, 5-5-87, Cl. 210-170.000.

Breslow, David, to RTC Industries, Inc. Display shelf organizer. 4,712,694, 12-15-87, Cl. 211-184.000.

Breslow, Jeffrey D.; Morrison, Howard J.; Hanson, Steven P.; and Rasmussen, Russell G., to Marvin Glass & Associates. Video game incorporating digitized images of being into game graphics. 4,710,873, 12-1-87, Cl. 364-410.000.

Breslow, Jeffrey D.: *See—*
Katzman, Allison W.; Terzian, Rouben T.; and Breslow, Jeffrey D., 4,674,169, Cl. 29-432.000.
Zaruba, John V.; Rosenwinkel, Donald A.; and Breslow, Jeffrey D., 4,662,633, Cl. 273-1.0GF.

Bresser, Robert E.; and Wursthorn, Karl R., to Morton Thiokol, Inc. Stabilizer compositions for PVC resins. 4,701,486, 10-20-87, Cl. 524-182.000.

Bressie, Joe L. Setter apparatus for golf tees. 4,660,837, 4-28-87, Cl. 273-32.500.

Bressler, Peter W.: *See—*
de la Morandiere, Anne J.; Bressler, Peter W.; Byar, Peter D.; and Spector, Edward A., 4,636,613, Cl. 219-249.000.

Bresson, Clarence R.; and Louthan, Rector P., to Phillips Petroleum Company. Ore flotation and flotation agents for use therein. 4,640,789, 2-3-87, Cl. 252-61.000.

Bresson, Clarence R.; and Parlman, Robert M., to Phillips Petroleum Company. Ore flotation. 4,681,675, 7-21-87, Cl. 209-167.000.

Bresson, Clarence R.; Parlman, Robert M.; and Kimble, James B., to Phillips Petroleum Company. Trithiocarbonates as flotation reagents. 4,686,033, 8-11-87, Cl. 209-167.000.

Bresson, Clarence R.; and Mark, Harold W., to Phillips Petroleum Company. Ore flotation and di-alkali metal-di(carboxyalkyl)dithiocarbamate and diammonium-di(carboxyalkyl)dithiocarbamate flotation agents for use therein. 4,702,821, 10-27-87, Cl. 209-166.000.

Bresson, Clarence R.: *See—*
Bobsein, Rex L.; and Bresson, Clarence R., 4,663,082, Cl. 252-530.000.
Kimble, Kenneth B.; Bresson, Clarence R.; and Mark, Harold W., 4,650,568, Cl. 209-167.000.

Bretaudeau, Francis; and Sarazin, Marc, to Office National d'Etudes et de Recherches Aerospatiales (ONERA). Three-dimensional reflectors for object attitude recognition. 4,642,469, 2-10-87, Cl. 250-561.000.

Brethorst, David L.: *See—*
Huang, Min N.; Brethorst, David L.; and Ryan, Richard E., 4,665,812, Cl. 99-535.000.
Huang, Min-Nan; and Brethorst, David L., 4,670,280, Cl. 426-465.000.

Breton, Claude: *See—*
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Brett, Dennis A.; and Runshe, Clay R., to Techserve Engineering Corp. Non-electrical solvent recovery distillation apparatus. 4,693,786, 9-15-87, Cl. 202-83.000.

Brett, J. Ford: *See—*
Warren, Tommy M.; Winters, Warren J.; and Brett, J. Ford, 4,660,656, Cl. 175-26.000.
Warren, Tommy M.; Winters, Warren J.; and Brett, J. Ford, 4,705,117, Cl. 175-65.000.
Winters, Warren J.; Brett, J. Ford; and Warren, Tommy M., 4,655,303, Cl. 175-329.000.

Bretthauer, Hans-Jurgen: *See—*
Focke, Heinz; Langer, Horst; and Bretthauer, Hans-Jurgen, 4,711,065, Cl. 53-170.000.

Bretthauer, Karlheinz; and Obenauf, Hans-Dietrich, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Method and apparatus for electrically balancing three-phase arc discharge furnaces. 4,663,764, 5-5-87, Cl. 373-104.000.

Bretthauer, Karlheinz; and Obenauf, Hans-Dietrich, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Method and apparatus for regulating arc discharge furnace. 4,683,577, 7-28-87, Cl. 373-105.000.

Bretthauer, Karlheinz; and Obenauf, Hans-Dietrich, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Method for regulating the electrodes in a furnace having freely burning electric arcs. 4,701,932, 10-20-87, Cl. 373-104.000.

Brettrager Manufacturing Co.: *See—*
Oeming, Joseph A., 4,653,158, Cl. 29-6.000.

Bretz, Philip E.; Petit, Jocelyn I.; Sawtell, Ralph R.; and Vasudevan, Asuri K., to Aluminum Company of America. Alloy having improved fatigue crack growth resistance. 4,693,747, 9-15-87, Cl. 75-249.000.

Bretz, Philip E.: *See—*
Hunt, Warren H., Jr.; Sawtell, Ralph R.; and Bretz, Philip E., 4,648,913, Cl. 148-12.70A.
Sawtell, Ralph R.; Bretz, Philip E.; and Jensen, Craig L., 4,589,090, Cl. 148-2.000.

Bretzger, Reinhard: *See—*
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Breu, Heinz: *See—*
Birk, John; Breu, Heinz; Gong, William; Morehouse, Charles C.; and Liebes, Sidney, Jr., 4,705,081, Cl. 140-147.000.

Breu, Johann, to Rockinger Spezialfabrik fur Anhangerkupplungen GmbH & Co. Mounting of the coupling body of a trailer coupling in the cross-piece. 4,715,611, 12-29-87, Cl. 280-504.000.

Breu, Karl-Jan; and Schinke, Hans-Joachim, to Siemens Aktiengesellschaft. Cradle switch for a telephone apparatus. 4,638,126, 1-20-87, Cl. 379-427.000.

Breuel, Hans-Peter: *See—*
Tibes, Ulrich; Weischer, Carl H.; Hettche, Helmut; Breuel, Hans-Peter; and Gunesch, Dietmar, 4,668,684, Cl. 514-277.000.

Breuer, Hermann; and Denzel, Theodor, to E. R. Squibb & Sons, Inc. 2-oxo-1-(aminocarbonylaminosulfonyl-aminocarbonyl)azetidines. 4,670,553, 6-2-87, Cl. 540-363.000.

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Koster, William H.; and Breuer, Hermann, 4,670,554, Cl. 540-355.000.
Zahler, Robert; Breuer, Hermann; and Jacobs, Glenn A., 4,647,660, Cl. 540-355.000.

Breuer, Kornelia; Gelderie, Udo; Holzer, Gerhard; and Raedisch, Helmer, to Saint-Gobain Vitrage. Transparent coating layer with self-repairng and fog-resistant properties which can be utilized on panes. 4,684,694, 8-4-87, Cl. 524-730.000.

Breuer, Lothar: *See—*
Zulauf, Karlheinz; and Breuer, Lothar, 4,712,593, Cl. 141-113.000.

Breuer, Melvin A.; and Nanda, Navnit K., to University of Southern California. Simplified delay testing for LSI circuit faults. 4,672,307, 6-9-87, Cl. 324-73.00R.

Breuer, Oswald: *See—*
Annipajo, Wolfgang; Breuer, Oswald; and Rassmann, Christoph, 4,637,658, Cl. 299-79.000.

Breuer, Peter: *See—*
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Breukelman, Stephen P.: *See—*
Roe, Anthony M.; Coates, William J.; Slater, Robert A.; Breukelman, Stephen P.; and Meakins, George D., 4,678,786, Cl. 514-247.000.

Breuker, Gordon W.: *See—*
Scrivo, Jerry V.; and Breuker, Gordon W., 4,695,433, Cl. 422-112.000.

Breunig, Charles F.: *See—*
Stiefel, Werner K.; and Breunig, Charles F., 4,681,635, Cl. 106-178.000.

Breunig, Donald E. Exercise Device. 4,700,946, 10-20-87, Cl. 272-134.000.

Breunig, Walter: *See—*
Pietzsch, Ludwig; Overlach, Knud; Senger, Detlef; and Breunig, Walter, 4,692,943, Cl. 382-8.000.

Breuninger, Manfred; and Schmidt, Dieter, to Hoffmann-La Roche Inc. Glycerol ether phosphatides. 4,694,084, 9-15-87, Cl. 546-25.000.

Breval S.A.: *See—*
Martinez, Carlos M., 4,669,975, Cl. 431-344.000.

Breville R & D Pty. Ltd.: *See—*
McClean, John W., 4,685,479, Cl. 132-36.00R.
McClean, John W., 4,700,901, Cl. 241-37.500.

Brew, Allan T.: *See—*
McAloon, Kevin T.; and Brew, Allan T., 4,678,700, Cl. 428-198.000.

Brewbaker, James L.: *See—*
Delaney, Mark S.; Marshall, William B.; and Brewbaker, James L., 4,668,746, Cl. 526-180.000.

Brewer, Arthur D.; and Minatelli, John A., to Uniroyal Chemical Company, Inc.; and Uniroyal Ltd. 5-pyrimidinecarboxamides and treatment of leukemia and tumors therewith. 4,634,707, 1-6-87, Cl. 514-270.000.

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Brewer, Clarence T., to Solo Cup Company. Cup dispensing system. 4,684,036, 8-4-87, Cl. 221-61.000.

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Brewer, David E., to Pizza Hut, Inc. Oven ventilation system. 4,643,167, 2-17-87, Cl. 126-299.00R.

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Brewer, Janet C. Protective device for hair stylist's fingers. 4,689,828, 9-1-87, Cl. 2-21.000.

Brewer, Jimmy D.; Gunther, Albert W., Jr.; and Gunther, Albert W., Sr., to Pressure Services, Inc. Auxiliary workover rig. 4,684,306, 8-4-87, Cl. 414-22.000.

Brewer, John A.: *See—*

Catalano, Anthony W.; D'Aiello, Robert V.; Brewer, John A.; and Podlesny, Richard J., 4,667,058, Cl. 136-244.000.

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Brewster, Andrew G., to Imperial Chemical Industries PLC. [(4-phenyl-1,3-dioxan-cis-5-yl)alkyl]phenylalkanoic acid derivatives. 4,668,698, 5-26-87, Cl. 514-452.000.

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Brewster, Phillip W.; and Smith, Clinton R., to Exxon Research & Engineering Co. Haze-free polymer additives for fuels and lubricants. 4,707,285, 11-17-87, Cl. 252-50.000.

Brewster, Phillip W.: *See—*

Varma, Vijaya K.; Winans, Esther D.; O'Halloran, Rosemary; and Brewster, Phillip W., 4,693,838, Cl. 252-51.50R.

Brewster, W. Darlene: *See—*

Hein, Paul R.; Miller, Henry C.; and Brewster, W. Darlene, 4,666,821, Cl. 430-311.000.

Brewton, Nolan; Weiner, Gerhard J.; and Resch, Helmut, to Mt. Diablo Tool and Die, Inc. Device for removing champagne corks from bottles. 4,653,355, 3-31-87, Cl. 81-3.440.

Brey, Larry A.: *See—*

Cadwell, Donald E.; and Brey, Larry A., 4,687,729, Cl. 430-271.000.

Brey, William A.; and Hilbert, Steven R., to Reliance Comm/Tec Corporation. Modular distribution frame assembly. 4,665,546, 5-12-87, Cl. 379-327.000.

Breya, Edward F., to Tektronix, Inc. Mounting method for electrical components having connections both on and off a circuit board. 4,696,105, 9-29-87, Cl. 29-840.000.

Breyer, Branko; and Cikes, Ivo, to Telectronics N.V. Ultrasonically marked cardiac catheters. 4,697,595, 10-6-87, Cl. 128-660.000.

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Breyer, Fritz-Werner, and Meyer, Wolfgang K., to Sulzer Brothers Limited. Cleaning apparatus for textile machine. 4,655,258, 4-7-87, Cl. 139-1.00C.

Breyer, Karl; and Tesar, Roland, to Herion-Werke KG. Control valve. 4,707,278, 11-17-87, Cl. 251-122.000.

Breyer, Randall E.: *See—*

Busboom, Garry W.; and Breyer, Randall E., 4,662,812, Cl. 414-523.000.

Breyer, Werner, to Lindauer Dornier Gesellschaft mbH. Device for isolating vibrations of heavy equipment. 4,664,156, 5-12-87, Cl. 139-1.00R.

Breymayer, Angela: *See—*

Conrad, Ulrich; Kellermann, Guenter; Breymayer, Angela; Klinker, Rolf; Schuldt, Oswald; Hoffmann, Rainer; and Fabian, Frank-Dietrich, 4,709,548, Cl. 60-280.000.

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Brezillon, Jean-Loup; and Dauchier, Jean-Michel, to Saft, S.A. Method of manufacturing a polymer-consolidated cadmium electrode for an alkaline storage cell, and an electrode obtained by the method. 4,689,880, 9-1-87, Cl. 29-623.500.

Brezniak, Diane V.: *See—*

Hallgren, John E.; and Brezniak, Diane V., 4,634,755, Cl. 528-23.000.

Brian, Rene, to Pomagalski S.A. Rocker arm assembly with a fixing collar for an aerial tramway installation. 4,640,197, 2-3-87, Cl. 104-179.000.

Brian Watt Associates, Inc.: *See—*

Birdy, Jal N.; Watt, Brian J.; and Chen, Jade, 4,655,642, Cl. 405-217.000.

Briana, Stephen G.: *See—*

Gilding, D. Keith; Reed, Andrew M.; Askill, Ian N.; and Briana, Stephen G., 4,704,130, Cl. 623-66.000.

Briand, Jean P. Conical bobbin and method of forming same. 4,645,48 2-24-87, Cl. 493-296.000.

Briant, Gervais: *See—*

Siffert, Marcel; Briant, Gervais; Feunten, Pierre; Goacolou, Honore; Petitgrand, Jean-Claude; and Peyret, Francois, 4,712,423, Cl. 73-146.000.

Briard, Rene: *See—*

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Bricas, Evangheios: *See—*

* Bach, Jean-Francois; Dardenne, Mireille; Pleau, Jean-Marie; Hamburger, Jean; Bricas, Evangheios; Martinez, Jean; Blanot, Didier; Auger, Genevieve; Lefrancier, Pierre; and Amor, Bernard, 4,680,276, Cl. 436-542.000.

Bricaud, Herve; and Bertho, Dominique, to Amphenol Corporation. Thermal connector for printed circuit card equipped with electronic components. 4,701,829, 10-20-87, Cl. 361-386.000.

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L'Henaff, Patrick; and Bricaud, Herve, 4,700,743, Cl. 137-560.000.

L'Henaff, Patrick; and Bricaud, Herve, 4,706,164, Cl. 361-382.000.

Tossutto, Jean F.; and Bricaud, Herve, 4,683,425, Cl. 324-158.00F.

Bricaud, Jean-Paul, and Bricaud, Martine. Buckets for compactable products. 4,637,306, 1-20-87, Cl. 100-233.000.

Bricaud, Martine: *See—*

Bricaud, Jean-Paul; and Bricaud, Martine, 4,637,306, Cl. 100-233.000.

Bricault, Gary S.: *See—*

Weinberger, Joseph; Bricault, Gary S.; Gruber, David; and Rakover, Eleonora, 4,712,907, Cl. 355-7.000.

Brice, Michael F.; and Natoli, Gaetano A. Coffee brewing method and apparatus. 4,699,794, 10-13-87, Cl. 426-79.000.

Brice, Richard M., to DCA Incorporated. Work station for instrument control room. 4,663,895, 5-12-87, Cl. 52-33.000.

Brice, Ronnie V. Collapsible decoy. 4,689,913, 9-1-87, Cl. 43-3.000.

Brichta, Corrado; Vezzoli, Annibale; and Origgi, Pietro, to Montepolimeri S.p.A. Self-extinguishing compositions based on ethylene/vinylacetate copolymers suitable for the preparation of foamed articles. 4,666,947, 5-19-87, Cl. 521-79.000.

Brichta, Corrado: *See—*

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Bricker, James C.; and Lippman, David H., to Hydro Systems Company. Faucet proportioner. 4,697,610, 10-6-87, Cl. 137-3.000.

Bricker, Jeffery C., to UOP Inc. Dehydrogenation of dehydrogenatable hydrocarbons. 4,691,071, 9-1-87, Cl. 585-319.000.

Bricker, Jeffery C.; and Staehle, Bruce E., to UOP Inc. Mercaptan extraction process. 4,705,620, 11-10-87, Cl. 208-206.000.

Bricker, Jeffery C.: *See—*

Imai, Tamotsu; and Bricker, Jeffery C., 4,652,687, Cl. 585-319.000.

Bricker, Melvin E., to Bricker Products, Inc. Pusher plate handle for a shredder attachment of a food processor. 4,706,895, 11-17-87, Cl. 241-37.500.

Bricker, Michael W.; and Thompson, Donald W., to AMP Incorporated. Method for molding a plastic ferrule for use in connectors for optical fibers. 4,649,616, 3-17-87, Cl. 29-406.000.

Bricker Products, Inc.: *See—*

Bricker, Melvin E., 4,706,895, Cl. 241-37.500.

Brickl, Rolf; Schepky, Gottfried; Rupprecht, Eckhard; and Greischel, Andreas, to Dr. Karl Thomae GmbH. Oral anti-diabetic pharmaceutical forms and the preparation thereof. 4,708,868, 11-24-87, Cl. 924-80.000.

Brickl, Rolf: *See—*

Schepky, Gottfried; Brickl, Rolf; Gruber, Peter; Schmid, Jochen; and Springmeier, Ursula, 4,650,664, Cl. 424-456.000.

Schepky, Gottfried; Brickl, Rolf; Rupprecht, Eckhard; and Greischel, Andreas, 4,696,815, Cl. 424-80.000.

Brickner, Louis C., Jr.; and Skipworth, Jerry D., to Delta International Machinery Corp. Miter box construction. 4,694,720, 9-22-87, Cl. 83-471.300.

Brickner, Louis C., Jr., to Delta International Machinery Corp. Motor pack for circular saw. 4,694,721, 9-22-87, Cl. 83-471.300.

Brickner, Louis C., Jr.: *See—*

Rickmers, Clifford P.; Donovan, Robert D.; and Brickner, Louis C., Jr., 4,711,032, Cl. 30-372.000.

Bricmont & Associates, Inc.: *See—*

Bricmont, Francis H., 4,673,431, Cl. 75-25.000.

Bricmont, Francis H., to Bricmont & Associates, Inc. Furnace dust recovery process. 4,673,431, 6-16-87, Cl. 75-25.000.

Brico Industries, Inc.: *See—*

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Gerard, Jean-Louis; and Bricot, Claude, 4,674,081, Cl. 369-275.000.

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Burnell, Richard M.; and Bridge, Donald, 4,644,718, Cl. 52-295.000.

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Bridgeford, Douglas J.: *See—*

Pritikin, William B., deceased; Smith, Burl L.; and Bridgeford, Douglas J., 4,664,861, Cl. 264-173.000.

- Bridgeport Metal Goods Mfg. Co., The: *See—*
  - Ahrens, Warren S., 4,691,833, Cl. 215-227.000.
- Bridgers, Frank: *See—*
  - Yawn, James M.; Whitaker, Huby M.; and Bridgers, Frank, 4,633,586, Cl. 30-168.000.
- Bridges, Charles D.: *See—*
  - Adamek, Frank C.; and Bridges, Charles D., 4,709,933, Cl. 277-167.500.
- Bridges, Denis R. Mounting rail. 4,672,508, 6-9-87, Cl. 361-353.000.
- Bridges, Donald W.: *See—*
  - Barajas, Felix; and Bridges, Donald W., 4,661,173, Cl. 148-24.000.
  - Barajas, Felix; and Bridges, Donald W., 4,673,532, Cl. 252-512.000.
- Bridges, Donald Y., to Brico Industries, Inc. Sealing assembly for pipe joint. 4,664,428, 5-12-87, Cl. 285-373.000.
- Bridges, Jack E.; Taflove, Allen; and Sresty, Guggilam C., to IIT Research Institute. Electro-osmotic production of hydrocarbons utilizing conduction heating of hydrocarbonaceous formations. 4,645,004, 2-24-87, Cl. 166-248.000.
- Bridges, Jack E.; and Enk, Joseph O., to Gas Research Institute. Control for guiding a boring tool. 4,646,277, 2-24-87, Cl. 367-191.000.
- Bridges, Jack E.; Dev, Harsh; Snow, Richard H.; and Taflove, Allen, to IIT Research Institute. In situ decontamination of spills and landfills by radio frequency heating. 4,670,634, 6-2-87, Cl. 219-10.410.
- Bridges, Jeffrey M., to Texas Instruments Incorporated. Method of forming a high density vertical stud titanium silicide for reachup contact applications. 4,715,109, 12-29-87, Cl. 437-200.000.
- Bridges, John A.; and Young, Kenneth E., to United Kingdom of Great Britain and Northern Ireland, The Secretary of State for Defence in Her Britannic Majesty's Government of the. Alignment aid for gun muzzle reference system. 4,676,636, 6-30-87, Cl. 356-153.000.
- Bridges, Ronald P. Group operated circuit disconnect apparatus for overhead electric power lines. 4,654,540, 3-31-87, Cl. 307-126.000.
- Bridges, Stuart A.; and Goddard, John, to Rolls-Royce plc. Brush seals. 4,678,113, 7-7-87, Cl. 228-160.000.
- Bridgestone Co., Ltd.: *See—*
  - Furuta, Mitsuo; and Uchida, Shinji, 4,678,244, Cl. 305-57.000.
- Bridgestone Corporation: *See—*
  - Akiyama, Setsuo; Fukuura, Yukio; Yoshikawa, Masato; Matsuda, Takeyuki; Monobe, Hisanobu; Ohkubo, Shigeki; and Yoshida, Shiro, 4,657,285, Cl. 285-256.000.
  - Alaki, Yasuhide; Ohtake, Masayuki; and Ihara, Keisuke, 4,681,323, Cl. 273-232.000.
  - Dan, Takuya; Orikawa, Michihiro; and Kojima, Hiroshi, 4,660,412, Cl. 267-140.100.
  - Endo, Kazuyuki; Taniguchi, Motoaki; Takahashi, Masanobu; Yamada, Shigeki; and Kato, Kenshiro, 4,700,764, Cl. 152-526.000.
  - Hashimoto, Takatsugu; Maehara, Akihiro; Tomita, Seisuke; Funahashi, Yuichi; Watanabe, Junichiro; Sugiura, Kazuo; and Matsumoto, Hironori, 4,714,734, Cl. 524-496.000.
  - Hirata, Yasushi; Kondo, Hitoshi; Kono, Masanao; and Sanada, Yasuyoshi, 4,665,119, Cl. 524-399.000.
  - Hirata, Yasushi; Kondo, Hitoshi; Otomo, Shigemitsu; and Ueda, Hisahito, 4,675,355, Cl. 524-236.000.
  - Hirata, Yasushi; Kondo, Hitoshi; Yokoyama, Goro; and Ohara, Masaki, 4,690,965, Cl. 524-236.000.
  - Hoshino, Takashi, 4,714,732, Cl. 524-474.000.
  - Ichikawa, Wataru; Matsuki, Yuji; Hirata, Yoshiaki; and Ito, Mikiya, 4,695,235, Cl. 425-29.000.
  - Inoue, Seizaburo; and Smith, Norvel L., 4,652,410, Cl. 264-39.000.
  - Ishii, Seiji; Miyoshi, Masanori; Ishiwaka, Takumi; and Kondo, Osamu, 4,647,596, Cl. 521-159.000.
  - Iwasawa, Shigeru; and Ishiwaka, Takumi, 4,707,408, Cl. 428-379.000.
  - Kakiuchi, Shinichi; Saito, Tasuku; and Tomita, Seisuke, 4,683,257, Cl. 524-432.000.
  - Kanayama, Tatsuya; Yamanaka, Yutaka; Toyoda, Hitoshi; Tanaka, Akihiko; and Shinogaya, Toshikazu, 4,647,495, Cl. 428-246.000.
  - Kawasaki, Kiyohito, 4,690,191, Cl. 152-527.000.
  - Kawasaki, Kiyohito; Sato, Michitaka; Koseki, Hiroyuki; and Matsunuma, Tamotsu, 4,715,419, Cl. 152-527.000.
  - Koseki, Hiroyuki; Watanabe, Jun; and Takano, Nanako, 4,669,520, Cl. 152-527.000.
  - Kurachi, Yasuo; Arai, Katsuhiko; Wada, Hiroaki; Watabe, Yoji; and Irako, Sanae, 4,702,900, Cl. 423-345.000.
  - Mizuno, Keiichiro; Iida, Kazuyoshi; and Murakami, Kazutomo, 4,635,501, Cl. 74-574.000.
  - Mizuno, Tetsuo; Marumoto, Yoshio; and Yamada, Kouji, 4,700,078, Cl. 250-566.000.
  - Morimura, Yasuhiro; Fukuura, Yukio; Ishikawa, Hikaru; Tanuma, Itsuo; and Honda, Toshio, 4,707,397, Cl. 428-216.000.
  - Muramatsu, Tateo; Enami, Yasushi; Saito, Hideaki; and Aramaki, Kuninori, 4,662,783, Cl. 405-115.000.
  - Nagano, Jun; and Tanaka, Shuichi, 4,642,686, Cl. 358-107.000.
  - Ogawa, Masaki; and Kudo, Takabumi, 4,711,285, Cl. 152-458.000.
  - Ogino, Akihiko; and Ohno, Teruyoshi, 4,663,909, Cl. 52-302.000.
  - Ogino, Takao, 4,653,259, Cl. 57-243.000.
  - Ozaki, Haruhiko; Yamada, Tadatoshi; Machida, Kunio; Ohno, Kiyoshi; Shimazaki, Hirato; Inoue, Hidekimi; and Uji, Ryohei, 4,713,686, Cl. 358-107.000.
  - Sakaguchi, Yuji; and Terahama, Tatuo, 4,689,538, Cl. 318-568.000.
  - Sato, Susumu; and Okamoto, Keizo, 4,678,830, Cl. 524-495.000.
  - Shimizu, Goro; Hayashi, Yoshimi; Hasegawa, Hajime; Koga, Taiji; Takei, Atsuo; Okuyama, Tohru; and Torigoe, Hideo, 4,666,949, Cl. 521-114.000.
  - Shimomura, Kenji; Kouketsu, Shigeaki; Okuyama, Toru; and Sato, Take, 4,696,952, Cl. 521-107.000.
  - Tabata, Keiichirou; Matsudaira, Nobufumi; and Sugiki, Shozo, 4,663,224, Cl. 428-246.000.
  - Takagi, Takeo; Sakaguchi, Yuji; and Imamura, Yoshinori, 4,664,232, Cl. 188-74.000.
  - Takiguchi, Eiji; Yuto, Kazuaki; and Oniki, Toru, 4,640,952, Cl. 524-296.000.
  - Tamura, Akira, 4,633,926, Cl. 152-209.00R.
  - Tansei, Hikaru; and Motomura, Kenichi, 4,676,290, Cl. 152-209.00R.
  - Tomita, Seisuke; and Egashira, Yoshinori, 4,696,475, Cl. 273-227.000.
  - Tomita, Seisuke; and Hashimoto, Takatsugu, 4,710,541, Cl. 525-104.000.
  - Tsukagoshi, Tetsuhito; Matsunuma, Tamotsu; and Makino, Shigeo, 4,696,335, Cl. 152-535.000.
  - Umezawa, Yujiro, 4,707,975, Cl. 57-212.000.
  - Uno, Takaaki; Dan, Takuya; and Orikawa, Michihiro, 4,702,346, Cl. 181-207.000.
  - Utsunomiya, Tadashi; Matsumuro, Yasuhiko; Sato, Keishi; Fukahori, Yoshihide; and Ogawa, Masao, 4,674,622, Cl. 198-500.000.
  - Watanabe, Tadashi; and Inoue, Shunichi, 4,682,641, Cl. 157-13.000.
  - Yagi, Akira; and Shimada, Tatsuro, 4,662,416, Cl. 152-209.00R.
  - Yahagi, Mitsuhisa, 4,683,928, Cl. 152-209.00R.
  - Yamada, Chikara; Watabe, Yoji; Irako, Koichi, deceased; and Murakamai, Yuichi, 4,711,870, Cl. 502-303.000.
  - Yamaguchi, Ikutoshi; Kashiwagi, Katsuhiko; Goto, Hideo; and Inoue, Susumu, 4,634,626, Cl. 428-312.400.
  - Yoda, Yasutada; Sueyasu, Seisuke; and Futamura, Shoji, 4,708,609, Cl. 425-28.00D.
- Bridgestone Cycle Co., Ltd.: *See—*
  - Kozakae, Kunitoshi, 4,644,828, Cl. 74-750.00B.
  - Takamiya, Kikuzo; and Ishibashi, Hideyuki, 4,682,509, Cl. 74-551.400.
  - Takamiya, Kikuzo; Ishibashi, Hideyuki; and Kozakae, Kunitoshi, 4,697,469, Cl. 74-117.000.
  - Takamiya, Kikuzo; Ishibashi, Hideyuki; and Kozakae, Kunitoshi, 4,712,450, Cl. 74-750.00B.
- Bridgestone Tire Company Limited: *See—*
  - Imai, Isamu; Oshima, Kazuo; Tanaka, Kenichi; and Inada, Norio, 4,708,185, Cl. 152-451.000.
  - Iwata, Norio; Nakamura, Masao; and Takusagawa, Takashi, 4,702,293, Cl. 152-531.000.
  - Ohkuni, Shinichiro; and Tamada, Shinichi, 4,706,724, Cl. 152-454.000.
  - Okada, Fumio; Oba, Toshio; and Nakazato, Morizo, 4,670,309, Cl. 427-387.000.
  - Okuni, Shinichiro; and Kitazawa, Yoichi, 4,706,725, Cl. 152-541.000.
  - Togashi, Minoru; Kato, Kenshiro; and Furuya, Shin-ichi, 4,669,519, Cl. 152-454.000.
- Bridgestone Tire Manufacturing (U.S.A.), Inc.: *See—*
  - Inoue, Seizaburo; and Smith, Norvel L., 4,652,410, Cl. 264-39.000.
- Bridgewater, Bobbie D.: *See—*
  - Boyer, James A.; Bridgewater, Bobbie D.; Warner, Donald C.; and Sturdivant, Jerry L., 4,706,639, Cl. 123-647.000.
- Bridgford Foods Corporation: *See—*
  - Vandervoort, David; and Griffith, Monty, 4,648,822, Cl. 425-135.000.
- Bridgham, John; Geiser, Timothy G.; Hunkapiller, Michael W.; Kent, Stephen B. H.; Marriott, Mark P.; Ramstad, Paul O.; and Nordman, Eric S., to Applied Biosystems, Inc. Automated polypeptide synthesis apparatus. 4,668,476, 5-26-87, Cl. 422-62.000.
- Bridginfill Design Ltd.: *See—*
  - Mikhailovsky, Leonid; and Ramotar, Jay G., 4,695,187, Cl. 405-124.000.
- Bridgwater, Jon, to Morton Metalcraft Company. Fireplace grate for gas fired fireplace including forced air heat exchanger. 4,694,818, 9-22-87, Cl. 126-121.000.
- Bridgwater, Jon D.: *See—*
  - Flaherty, Patrick; and Bridgwater, Jon D., 4,713,850, Cl. 4-585.000.
- Bridon plc: *See—*
  - Christian, Philip; and Tawse, Alan I., 4,641,689, Cl. 140-149.000.
  - Christian, Philip; and Walton, John M., 4,655,033, Cl. 57-11.000.
- Bridoux, Michel: *See—*
  - Delhaye, Michel; Deffontaine, Andre; Chapput, Andre; Bridoux, Michel; and Da Silva, Edouard, 4,678,277, Cl. 356-301.000.
- Brie, Georges; and Cazes, Michel, to Societe Generale des Eaux Minerales de Vittel. Process and apparatus for welding and cutting off at least one top horn of a bag of synthetic material. 4,649,696, 3-17-87, Cl. 53-479.000.
- Brieger, Emmert F.: *See—*
  - Wesson, David S.; Edwards, A. Glen; George, Flint R.; George, Kevin R.; and Brieger, Emmert F., 4,658,902, Cl. 166-317.000.
- Brieger, Emmet F.: *See—*
  - Colle, Edward A., Jr.; Yates, Donald N., Jr.; and Brieger, Emmet F., 4,702,168, Cl. 102-313.000.
  - Edwards, A. Glen; Wesson, David S.; and Brieger, Emmet F., 4,693,317, Cl. 166-378.000.
  - Vann, Roy R.; Brieger, Emmet F.; George, Flint R.; Colle, Edward A., Jr.; and Jones, Hilton B., 4,635,733, Cl. 175-4.560.
- Brielmann, Harry L., Jr.: *See—*
  - Skutnik, Bolesh J.; and Brielmann, Harry L., Jr., 4,707,076, Cl. 350-96.340.

Brien, Andre . Portable time piece with light diffuser. 4,705,407, 11-10-87, Cl. 368-227.000.

Brier, Michael I., to Hygienics Industries, Inc. Disposable waterproof encasement and panty for sanitary pad. 4,664,663, 5-12-87, Cl. 604-387.000.

Brierley, Corale L.: *See—*

  Brierley, James A.; Brierley, Corale L.; Decker, Raymond F.; and Goyak, George M., 4,690,894, Cl. 435-244.000.

Brierley, James A.; Brierley, Corale L.; Decker, Raymond F.; and Goyak, George M., to Advanced Mineral Technologies, Inc. Treatment of microorganisms with alkaline solution to enhance metal uptake properties. 4,690,894, 9-1-87, Cl. 435-244.000.

Brierley, Philip R.; and Lowry, Stephen R., to Nicolet Instrument Corporation. Optical analytical instrument with automatic sample changing. 4,695,727, 9-22-87, Cl. 250-328.000.

Brierley, Rowland J. P.: *See—*

  Wem, James; and Brierley, Rowland J. P., 4,692,283, Cl. 261-89.000.

Briese, Leonard A. Cutting insert arrangement. 4,682,916, 7-28-87, Cl. 407-113.000.

Briese, Michael W. Insect trap. 4,706,410, 11-17-87, Cl. 43-107.000.

Brieseck, Bernd; and Kreuzer, Peter, to Diehl GmbH & Co. Foldable wing, especially for a projectile. 4,635,881, 1-13-87, Cl. 244-49.000.

Brieseck, Bernd; and Nagler, Josef, to Diehl GmbH & Co. Coupling arrangement between a linear control element and a pivotable element, especially a control surface. 4,651,584, 3-24-87, Cl. 74-102.000.

Brieseck, Bernd; and Nagler, Josef, to Diehl GmbH & Co. Pivot bearing arrangement for the control surface of a missile. 4,660,786, 4-28-87, Cl. 244-324.000.

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  Steuer, Raimar; and Brieseck, Bernd, 4,664,338, Cl. 244-328.000.

Briffod, Jean P.; and Martin, Roland, to Charmilles Technologies, S.A. Selective power supply for travelling wire EDM apparatus. 4,652,717, 3-24-87, Cl. 219-69.00W.

Brigance, Albert H., to Curriculum Associates, Inc. Skill evaluating apparatus and method. 4,650,426, 3-17-87, Cl. 434-322.000.

Brigasky, Hans: *See—*

  Zeibig, Anton; Brigasky, Hans; and Lewand, Willi, 4,668,176, Cl. 425-464.000.

  Ziebig, Anton; Brigasky, Hans; and Lewand, Willi, 4,710,123, Cl. 425-464.000.

Brigati, David J.: *See—*

  Ward, David C.; Leary, Jeffry J.; and Brigati, David J., 4,687,732 Cl. 435-6.000.

Brigden, Kenneth A.; and Briggs, Michael. Retention and quick release mechanism. 4,648,138, 3-10-87, Cl. 2-421.000.

Briggs, Barry D.: *See—*

  Kelch, Russell K.; Finfrock, Don C.; Girard, Donald J.; Seevers, Daniel B.; Briggs, Barry D.; and Mathes, Gene R., 4,683,531, Cl. 364-200.000.

Briggs, Garry L., to Hughes Tool Company. Corrosion inhibitor for well acidizing treatments. 4,698,168, 10-6-87, Cl. 252-8.553.

Briggs, Gerald L.: *See—*

  Hanten, Bernard A.; and Briggs, Gerald L., 4,658,906, Cl. 169-45.000.

Briggs, Jerald E.; and Pfutzenreuter, Henry, to American Can Company. Multi-laminate structure containing a scrap layer and containers made therefrom. 4,705,708, 11-10-87, Cl. 428-35.000.

Briggs, John R.; and Robson, John H., to Union Carbide Corporation. Organosalts of metalate anions and process for the production of alkylene glycols therewith. 4,667,045, 5-19-87, Cl. 556-20.000.

Briggs, John R., to Union Carbide Corporation. Process for trimerization. 4,668,838, 5-26-87, Cl. 585-513.000.

Briggs, Jonathan, to Syntex (U.S.A.) Inc. Fluctuation analysis for enhanced particle detection. 4,676,640, 6-30-87, Cl. 356-317.000.

Briggs, Malcolm T.; Dowell, Robert I.; and Thornber, Craig W., to Imperial Chemical Industries PLC. Hydrazinopyridazine compounds. 4,711,887, 12-8-87, Cl. 514-247.000.

Briggs Manufacturing, Inc.: *See—*

  Briggs, Stanley E., 4,715,302, Cl. 111-1.000.

Briggs, Mark W.: *See—*

  Cutright, Robert A.; Briggs, Mark W.; and Bouwman, George J., 4,683,424, Cl. 324-158.00F.

Briggs, Michael: *See—*

  Brigden, Kenneth A.; and Briggs, Michael, 4,648,138, Cl. 2-421.000.

Briggs, Paul C.; and Gosiewski, Donald E., to Illinois Tool Works Inc. Acid modified adhesive compositions. 4,714,730, 12-22-87, Cl. 524-321.000.

Briggs, Paul C.: *See—*

  Broomfield, Donald J.; Briggs, Paul C.; Parker, Eric G.; and Wagner, David P., 4,715,316, Cl. 118-716.000.

Briggs, Randal L., to Advanced NMR Systems, Inc. Function generator for NMR system. 4,707,797, 11-17-87, Cl. 364-607.000.

Briggs, Richard J.: *See—*

  Newland, Paul H.; and Briggs, Richard J., 4,657,250, Cl. 273-26.00A.

Briggs, Richard L.: *See—*

  Jacobsen, William A.; and Briggs, Richard L., 4,636,267, Cl. 148-133.000.

Briggs, Sharon L. Multipurpose cabinet. 4,669,790, 6-2-87, Cl. 312-208.000.

Briggs, Stanley E., to Briggs Manufacturing, Inc. Foldable drill implement with differential assembly. 4,715,302, 12-29-87, Cl. 111-1.000.

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  Santi, John D., 4,633,556, Cl. 29-159.200.

  Tharman, Paul A., 4,684,917, Cl. 340-59.000.

  Uuskallio, Arvo F., 4,694,792, Cl. 123-187.50R.

Briggs, Stuart J.; Parker, David J.; and Schluter, Peter, to Lucas In tries Public Limited, Co. Master cylinder. 4,702,078, 10-27-87, 60-585.000.

Briggs, Thomas B.: *See—*

  Smith, Robert R., and Briggs, Thomas B., 4,710,177, 604-185.000.

Briggs, Willard S.; Gant, Alan D.; Gupta, Parveen K.; and Fer Isadore S., to Thomson Components-Mostek Corporation. Add controlled automatic bus arbitration and address modifica 4,649,471, 3-10-87, Cl. 364-200.000.

Brigham, David F.: *See—*

  Gavin, F. Paul; Brigham, David F.; and Gavin, Ann H., 4,681, Cl. 521-54.000.

Brigham, Robert N., to Superior Electric Company, The. Step motor winding for bipolar drive. 4,634,948, 1-6-87, Cl. 318-696.

Brigham, William D., to Zwich Energy Research Organization, Method and apparatus for extending the duration of operation cryogenic pumping system. 4,662,181, 5-5-87, Cl. 62-55.000.

Brigham, William D.; and Nguyen, Dinh, to Zwick Energy Rese Organization, Inc. Exhaust cooling system for internal combu engine. 4,685,292, 8-11-87, Cl. 60-320.000.

Brigham and Women's Hospital: *See—*

  Patz, H. Samuel, 4,716,367, Cl. 324-309.000.

  Raemer, Daniel B., 4,648,396, Cl. 128-204.220.

  Remold, Heinz G., 4,708,937, Cl. 435-188.000.

  Walker, Peter S., 4,637,382, Cl. 128-92.00Z.

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  Stout, W. Douglas, 4,705,284, Cl. 280-242.0WC.

  Tolman, J. Leonard; and Ekstrom, Joseph J., 4,646,234, 364-200.000.

Bright, Danielle A.: *See—*

  Telschow, Jeffrey E.; and Bright, Danielle A., 4,713,467, 558-18.000.

Bright, David R.: *See—*

  Williams, Robert D.; Bright, David R.; Young, Vernon V.; Martin, Jerome L., 4,654,334, Cl. 514-184.000.

  Young, Vernon V.; and Bright, David R., 4,656,276, 544-353.000.

  Young, Vernon V.; and Bright, David R., 4,658,028, 544-353.000.

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Bright, Edward J., to AMP Incorporated. Application tool and me for positioning electrical sockets on circuit boards for surface so ing. 4,679,318, 7-14-87, Cl. 79-840.000.

Bright, Edward J.; and Sinisi, David B., to AMP Incorporated. R tion system for removable heat sink. 4,716,494, 12-29-87, 361-386.000.

Bright, Michael W.; Ziolko, Eric F.; and Wilson, Alan L., to Moto Inc. Error corrector for a linear feedback shift register sequ 4,667,327, 5-19-87, Cl. 371-47.000.

Bright, Randall P.; Double, David D.; and Wise, Sean, to F. Research, Inc. Cementitious composite material with silicon ca aggregate. 4,666,520, 5-19-87, Cl. 106-97.000.

Bright, Robert G., to Draftex Industries Limited. Apparatus for a bling finishing and sealing strips. 4,653,166, 3-31-87, Cl. 29-235.

Bright, Robert G., to Draftex Industries Limited. Sealing or fin strips and carriers therefor. 4,699,837, 10-13-87, Cl. 428-122.00

Bright, Stephen A.: *See—*

  Brun, Philip L.; and Bright, Stephen A., 4,634,366, Cl. 425-52

Bright, William L.; and Cheatham, Michael L., to Western P Products, Inc. Enclosure for outdoor, ground level mounted co nication equipment. 4,644,095, 2-17-87, Cl. 174-50.000.

Brightad Limited: *See—*

  Street, Graham S. B., 4,641,178, Cl. 358-3.000.

  Street, Graham S. B., 4,692,792, Cl. 358-3.000.

Brightbill, Jerry D.; and Johnson, Kenneth M., to Alco Foods Equipment Company. Apparatus for producing a heating 4,646,820, 3-3-87, Cl. 165-145.000.

Brighter Light Liturgical Furnishings, Inc.: *See—*

  Mitchell, Mark J.; Weber, Walter H.; and Stewart, Davi 4,675,578, Cl. 315-315.000.

Brighton, John, to Arvin Industries, Inc. Exhaust processor. 4,65 3-24-87, Cl. 60-274.000.

Brightwell, Lionel L., to Trus Joist Corporation. Wooden joist web members having cut tapered edges and vent slots. 4,71 12-29-87, Cl. 52-729.000.

Brighty, Katherine E., to Pfizer Inc. 1-aza-4,5-dithiabicyclo oct-2-en-8-one-2 carboxylate esters. 4,695,626, 9-22-87, 540-214.000.

Briglia, Joseph F.: *See—*

  Hackstie, Louis F.; Briglia, Joseph F.; and Cohen, A 4,686,403, Cl. 310-90.000.

Briglia, Thomas D.: *See—*

  Garbis, Danny; Chan, Joseph J.; Granata, Amadeo J.; Conig Philip; Briglia, Thomas D.; and Laterza, Lawrence E., 4,65 Cl. 148-175.000.

Brignall, Nicolas L., to Ferranti plc. Reaction force compe 4,638,221, 1-20-87, Cl. 318-48.000.

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Brignall, Nicolas L.: *See—*

  St. Clair, John S.; and Brignall, Nicolas L., 4,680,52 318-664.000.

Brignoli, Silvio, to Eumuco Aktiengesellschaft fur Maschinenbau. Method for forming work-pieces by drop forging. 4,671,095, 6-9-87, Cl. 72-403.000.

Briguet, Andre ; and Goldman, Maurice, to Commissariat a l'Energie Atomique. Process for the generation and processing of signals for obtaining by nuclear magnetic resonance a distortion-free image from a heterogeneous polarization field. 4,684,890, 8-4-87, Cl. 324-309.000.

Briguet, Etienne: *See—*

  Heng, Jean-Paul; Marmonier, Andre ; and Briguet, Etienne, 4,704,659, Cl. 361-394.000.

Brihaye, Claude: *See—*

  Knapp, Furn F., Jr.; Butler, Thomas A.; and Brihaye, Claude, 4,683,123, Cl. 423-2.000.

Bril, Derk A.: *See—*

  Leenders, Hendrikus W.; and Bril, Derk A., 4,670,400, Cl. 436-34.000.

Bril, Thijs W.; Dekker, Pieter; Postma, Lambertus; and Witmer, Cornelis H. M., to U.S. Philips Corporation. Magnetic head having a step-shaped gap. 4,651,249, 3-17-87, Cl. 360-119.000.

Bril, Thijs W., to Signetics Corporation. Method for providing a semiconductor device with planarized contacts. 4,708,767, 11-24-87, Cl. 437-18.000.

Brilando, Frank F., to Schwinn Bicycle Company. Cycle exercisers. 4,712,789, 12-15-87, Cl. 272-73.000.

Briles, Paul R.: *See—*

  Salter, Larry, 4,702,658, Cl. 411-426.000.

Brill, Jurgen; and Schemel, Roland, to Schaudt Maschinenbau GmbH. Grinding machine. 4,662,118, 5-5-87, Cl. 51-48.00R.

Brill, Robert. Aerodynamically operated rain cap. 4,671,171, 6-9-87, Cl. 98-59.000.

Brill, William F., to Halcon SD Group, Inc., The. Preparation of hydrogen peroxide. 4,661,337, 4-28-87, Cl. 423-584.000.

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  Bouadma, Noureddine; Brillouet, Francois; and Kampfer, Angelika, 4,692,207, Cl. 156-649.000.

Brilman, Albert, and Harbers, Hermanus Gerhardus J., to Hollandse Signaalapparaten B.V. Apparatus for maintaining the orientation of an antenna system with respect to a beacon. 4,663,631, 5-5-87, Cl. 342-422.000.

Brilmyer, George H.; and Marshall, Dennis L. Method and apparatus for electrochemically cleaning gun bores and the like. 4,710,280, 12-1-87, Cl. 204-146.000.

Brlitz, Raymond P., to 3M Holding Co. Ltd.; and Magill-Stephenson Company Limited, a part interest. Fluid clarifying assembly. 4,710,290, 12-1-87, Cl. 210-199.000.

Brimberg, Barnett J. Space planning system and method. 4,652,239, 3-24-87, Cl. 434-80.000.

Brimeyer, Dennis A.: *See—*

  Ruhter, Martin L.; Brimeyer, Dennis A.; and Stubben, David W., 4,696,350, Cl. 172-793.000.

Brimhall, Owen D.: *See—*

  Baker, Charles D.; Brimhall, Owen D.; and Galway, Charles R., 4,705,518, Cl. 623-14.000.

Brimmer, Craig A. Bait holder and method for making. 4,691,467, 9-8-87, Cl. 43-44.400.

Brinck, Owe R.: *See—*

  Andersson, D. Bertil; Juhlin, Nils J. W.; Gillenium, Claes L.; Kjell-Berger, Olle; and Brinck, Owe R., 4,661,119, Cl. 44-10.00C.

Brinckmann, Paul; and Anapliotis, Emmanuel, to MECRON medizinische Produkte GmbH. Implant, particularly endoprosthesis. 4,687,486, 8-18-87, Cl. 623-16.000.

Brind Anstalt Fuer Industrie Patente: *See—*

  Marer, Joseph C., 4,665,826, Cl. 102-401.000.

Brindle, Ralph C.; and Kidder, Kenneth B., to Honeywell Inc. Digital data communication apparatus. 4,654,653, 3-31-87, Cl. 340-825.200.

Brindle, Ralph C.: *See—*

  Aggers, John R.; Brindle, Ralph C.; Kidder, Kenneth B.; and Ullestad, David C., 4,657,179, Cl. 236-51.000.

Brindopke, Gerhard; and Johannes, Gerhard, to Hoechst Aktiengesellschaft. Finely divided coating agent containing polymers having hydroxyl groups and blocked polyisocyanates containing at least one acylurethane. 4,657,962, 4-14-87, Cl. 524-362.000.

Brine, William H., Jr. Lacrosse stick head frame. 4,657,260, 4-14-87, Cl. 273-326.000.

Brinegar, John R.; and Freeman, William R., to Howmet Turbine Components Corporation. Heat resistant alloys with low strategic alloy content. 4,684,505, 8-4-87, Cl. 420-81.000.

Briner, Emil; and Keller, Urs, to Maschinenfabrik Rieter AG. Method for piecing a yarn in a friction spinning device. 4,646,513, 3-3-87, Cl. 57-263.000.

Briner, Emil; and Keller, Urs, to Rieter Machine Works Ltd. Method of removing a blockage in a false twist spinning unit. 4,669,258, 6-2-87, Cl. 57-304.000

Briner, Emil; and Hieronymi, Richard, to Rieter Machine Works Limited. Method of starting spinning of a yarn in a friction spinning device. 4,680,924, 7-21-87, Cl. 57-263.000.

Briner, Emil: *See—*

  Stalder, Herbert; Wurmli, Arthur; Baumgartner, Josef; and Briner, Emil, 4,696,155, Cl. 57-401.000.

Briner, Michael S.: *See—*

  Jain, Babu L.; Jain, Pardeep K.; and Briner, Michael S., 4,714,901, Cl. 331-176.000.

Briner, Paul H.: *See—*

  Wood, Derek A.; and Briner, Paul H., 4,639,334, Cl. 548-952.000.

Bringham, Richard L.; Gordon, Lucas S.; and Mosch, Karl E., to Baxter Travenol Laboratories, Inc. Integrated membrane oxygenator, heat exchanger and reservoir. 4,698,207, 10-6-87, Cl. 422-46.000.

Bringmann, Udo; Drews, Klaus; and Schon, Detlef G., to U.S. Philips Corporation. Device for coating a substrate by means of plasma-CVD or cathode sputtering. 4,673,588, 6-16-87, Cl. 427-41.000.

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Brinigar, William S.: *See—*

  Arkles, Barry C.; and Brinigar, William S., 4,711,820, Cl. 428-429.000.

Brininstool, Michael R., to United States of America, Navy. Integrated optical time domain reflectometer/insertion loss measurement system. 4,685,799, 8-11-87, Cl. 356-73.100.

Brink, David L.; Merriman, Michael M.; and Mixon, David A., to University of California, The Regents of the. Apparatus for the hydrolysis and disintegration of lignocellulosic. 4,706,903, 11-17-87, Cl. 241-188.00R.

Brink, Douglas F.; and MacConnell, John, to Benchmark Ventures. Cup holder. 4,715,633, 12-29-87, Cl. 294-31.200.

Brink, Satya S.; Baines, John H.; and Poulin, Suzanne C. M. Child resistant cabinet lock combination finger lock. 4,715,628, 12-29-87, Cl. 292-19.000.

Brink, Stuart J.; and Richter, Lee, to International Security Consultants Ltd. Vehicle trap. 4,647,246, 3-3-87, Cl. 404-6.000.

Brink, Ted: *See—*

  Zeilstra, Jacobus J.; and Brink, Ted, 4,687,835, Cl. 528-300.000.

Brinker, Alfred; Stewart, Iain G.; and Dreyer, Uwe, to Maschinenfabrik Fr. Niepmann GmbH & Co. Apparatus for checking the quality of rod-shaped, cylindrical objects. 4,648,232, 3-10-87, Cl. 53-54.000.

Brinker, Alfred; and Dreyer, Uwe, to Maschinenfabrik Fr. Niepmann GmbH & Co. Apparatus for engaging and loosening the beginning of a reel. 4,688,736, 8-25-87, Cl. 242-56.00R.

Brinker, C. Jeffrey; Keefer, Keith D.; and Lenahan, Patrick M., to United States of America, Energy. Inorganic-polymer-derived dielectric films. 4,652,467, 3-24-87, Cl. 427-246.000.

Brinkgreve, Peter; and Koningsberger, Diederik C., to Technische Hogeschool Eindhoven. Kinematic X-ray analyses apparatus. 4,637,041, 1-13-87, Cl. 378-71.000.

Brinkhoff, Helmut; Gloning, Gunter; and Steinkotter, Heinz-Gunter, to Miele & Cie. GmbH & Co. Vacuum cleaner having a vacuum hose holder. 4,697,299, 10-6-87, Cl. 15-323.000.

Brinkman, Donald J.; and Leonard, Russell J., to Molex Incorporated. Tool for electrical terminals. 4,635,355, 1-13-87, Cl. 29-747.000.

Brinkman, Earl H., to General Electric Company. Apparatus for sealing joints of a steam turbine shell. 4,666,369, 5-19-87, Cl. 415-135.000.

Brinkman, Earl H.; and Morrison, Bruce L., to General Electric Company. Slip ring expansion joint. 4,702,671, 10-27-87, Cl. 415-134.000.

Brinkmann, Dirk; and Gutohrlein, Uwe, to Hoesch Aktiengesellschaft. Underfloor wheel set barring machine for retreading of rim circumferences of railroad wheel sets. 4,669,292, 6-2-87, Cl. 72-107.000.

Brinkmann, Dirk: *See—*

  Gutohrlein, Uwe; and Brinkmann, Dirk, 4,674,370, Cl. 82-8.000.

Brinkmann, Manfred, to Paul Hettich GmbH & Co. Connecting fitting. 4,664,548, 5-12-87, Cl. 403-14.000.

Brinkmann, Uwe: *See—*

  Schoettle, Klaus; Sold, Roland; Brinkmann, Uwe; and Wagner, Werner, 4,709,290, Cl. 360-132.000.

Brinkmeyer, Hermann; Hubler, Gerhard; Perrey, Hermann; Nippe, Burkhard; and Kober, Heinrich, to Agfa Gevaert Aktiengesellschaft. Magnetic recording carrier containing radiation hardenable dispersing agents. 4,687,709, 8-18-87, Cl. 428-425.900.

Brinkmeyer, Hermann: *See—*

  Nielinger, Werner; Brinkmeyer, Hermann; Binsack, Rudolf; Bottenbruch, Ludwig; and Fullmann, Heinz-Josef, 4,673,728, Cl. 528-339.000.

  Weber, Gunter; Dicke, Hans-Rudolf; Vogelsgesang, Roland; Simm, Walter; and Brinkmeyer, Hermann, 4,668,448, Cl. 264-22.000.

Brinly-Hardy Co., Inc.: *See—*

  Doering, Charles W., 4,689,941, Cl. 56-396.000.

Brinson, Edward P.: *See—*

  Tomczak, Roman M.; Evans, Alfred J.; Chen, Grant K. R.; and Brinson, Edward P., 4,683,615, Cl. 17-1.00R.

BRIntec Corporation: *See—*

  Carswell, Joseph; and Ance, Louis, 4,695,018, Cl. 248-74.200.

  DeSanti, Raymond J., 4,687,289, Cl. 350-96.200.

Brinton, Charles C.; and McMichael, John C., to Bactex, Inc. Gonococcal Pili processes for the preparation thereof and the use thereof for the detection of and prevention of infections caused by *Neisseria gonorrhoeae*. 4,696,896, 9-29-87, Cl. 435-7.000.

Brio AB: *See—*

  Petersson, Nils A. L., 4,641,878, Cl. 295-49.000.

Briody, Robert G., to PPG Industries, Inc. Removal of molecular chlorine from 1,2-dichloroethane compositions contaminated with molecular chlorine. 4,650,916, 3-17-87, Cl. 570-252.000.

Brion, Harvey F.: *See—*

  Terbrack, William H.; Brion, Harvey F.; and Minear, Ronald J., 4,649,570, Cl. 455-344.000.

Brion, Jean-Claude A.; Brunaud, Claude; Jean, Robert P. H.; and Machet, Rene H., to Societe de Verrerie et de Thermometrie. High voltage and high energy storage device and a pulse generator including the application thereof. 4,680,671, 7-14-87, Cl. 361-329.000.

Briosi, Antonello. Simplified metallic structures and procedure for their production. 4,709,642, 12-1-87, Cl. 108-111.000.

Briosi, Gordon K.: *See—*

  Weickert, Chris A., and Briosi, Gordon K., 4,641,581, Cl. 102-307.000.

Briot International: *See—*

  Langlois, Jean-Pierre; and Verdier, Bernard, 4,667,444, Cl. 51-101.0LG.

Briquet, Lucienne: *See—*

  Born, Maurice; Parc, Guy; Briquet, Lucienne; and Paquer, Daniel, 4,645,610, Cl. 252-45.000.

Brisco, David P., to Halliburton Company. Gravel pack safety sub. 4,658,895, 4-21-87, Cl. 166-237.000.

Brisco, David P.; and Bolin, Michael L., to Halliburton Company. Liner seal and method of use. 4,662,446, 5-5-87, Cl. 166-278.000.

Brisco, David P., to Halliburton Company. Liner screen tieback packer apparatus and method. 4,662,453, 5-5-87, Cl. 166-387.000.

Briscoe, James A.; Putt, James C.; and Phillips, Ronald W., II. Method and apparatus for deicing a leading edge. 4,706,911, 11-17-87, Cl. 244-134.00A.

Briscoe, Peter F.: *See—*

  Blamire, Michael F.; Briscoe, Peter F.; McLeod, Douglas D.; Doolittle, B. Kingsley; and Roach, Michael J., 4,673,900, Cl. 333-167.000.

  Blamire, Michael F.; Briscoe, Peter F.; Bronson, A. Grant; and Doolittle, B. Kingsley, 4,700,156, Cl. 333-182.000.

Briscoe, Terry L., to ESCO Corporation. Rub link assembly for dragline bucket. 4,689,904, 9-1-87, Cl. 37-135.000.

Briscoe, Terry L.: *See—*

  Van Hoomissen, Robert L.; Briscoe, Terry L.; and Barker, Don P. S., 4,640,496, Cl. 254-415.000.

Brisebarre, Marcel, to Monec S.A. Method of and installation for putting stacks of coins into cartridges. 4,677,811, 7-7-87, Cl. 53-456.000.

Brisk, Richard; Kasindorf, Barry; and Stein, Alexander, to Quantum Logic Corporation. Pyrometer #2. 4,647,774, 3-3-87, Cl. 250-338.000.

Briska, Marian; Elsner, Gerhard; and Hinkel, Holger, to International Business Machines Corporation. Abrasion-resistant magnetic recording disk. 4,689,260, 8-25-87, Cl. 428-161.000.

Briski, Lawrence M.: *See—*

  Ostroski, Joseph; and Briski, Lawrence M., 4,666,027, Cl. 194-203.000.

Brisland, Michael J. Slide valve. 4,683,914, 8-4-87, Cl. 137-625.480.

Brison, Bernard; Galerneau, Jacques; Gontier, Alex; and Petrozzi, Gerard. Protecting garnment usable in particular in hairdressing salons and new type of towel incorporated in the design of said garnment. 4,710,980, 12-8-87, Cl. 2-50.000.

Brison, Marc P., to Moulinex, Societe Anonyme. Blade set for an electrical knife. 4,677,749, 7-7-87, Cl. 30-355.000.

Brisset, Jean-Paul: *See—*

  Lombard, Claude; Brisset, Jean-Paul; Catier, Gerard; Marais, Jean-Luc; and Zammarchi, Gino, 4,682,104, Cl. 324-208.000.

  Lombard, Claude; Brisset, Jean-Paul; Marais, Jean-Luc; and Catier, Gerard, 4,702,208, Cl. 123-339.000.

Brisson, Alain; and Clement, Jean-Rene, to La Telemecanique Electrique. Noiseless electromagnet and a contactor using such an electromagnet. 4,638,279, 1-20-87, Cl. 335-257.000.

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Brisson, Alfred G.; and Nowacki, Christopher, to Trutek Research, Inc. Inhalation therapy apparatus adapter. 4,644,958, 2-24-87, Cl. 128-725.000.

Brisson, Alfred G., and Nowacki, Christopher, to Trutek Research, Inc. Triggering circuit. 4,693,247, 9-15-87, Cl. 128-328.000.

Brisson, Alfred G.: *See—*

  Nowacki, Christopher; and Brisson, Alfred G., 4,715,375, Cl. 128-328.000.

  Nowacki, Christopher; and Brisson, Alfred G., 4,715,376, Cl. 128-328.000.

  Shene, William R.; Nowacki, Christopher; and Brisson, Alfred G., 4,696,299, Cl. 128-328.000.

Brisson, Glenn R.: *See—*

  Hughes, Robert W.; Brisson, Robert H.; and Brisson, Glenn R., 4,693,138, Cl. 74-567.000.

Brisson, Robert H.: *See—*

  Hughes, Robert W.; Brisson, Robert H.; and Brisson, Glenn R., 4,693,138, Cl. 74-567.000.

Brissot, Louis; Berger, Jean-Luc; and Cazaux, Yvon, to Thomson-CSF. Process for analyzing a row transfer photosensitive device while accomodating parasitic charges. 4,645,938, 2-24-87, Cl. 250-578.000.

Brissot, Louis: *See—*

  Berger, Jean L.; Brissot, Louis; and Cazaux, Yves, 4,680,476, Cl. 250-578.000.

  Berger, Jean-Luc; Brissot, Louis; and Cazaux, Yvon, 4,684,993, Cl. 358-213.310.

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Brister, Bryan C., to Procter & Gamble Company, The. Process for obtaining fatty acid product from glyceride oil soapstock. 4,671,902, 6-9-87, Cl. 260-412.500.

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  McGarrity, George V.; Foster, David C.; and Hurford, Duane, 4,669,503, Cl. 137-625.410.

Bristol, Edgar H., to Foxboro Company, The. Data compression for display and storage. 4,669,097, 5-26-87, Cl. 375-122.000.

Bristol, James A., Moos, Walter H.; and Trivedi, Bharat, to Warner-Lambert Company. N^6-substituted adenosines for treating pain. 4,657,897, 4-14-87, Cl. 514-47.000.

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  Sircar, Ila; and Bristol, James A., 4,701,453, Cl. 514-222.000.

Bristol, L. Rodney, to Tektronix, Inc. Cursor display for oscilloscope 4,686,523, 8-11-87, Cl. 340-709.000.

Bristol, Lloyd R., to Tektronix, Inc. Z-axis orthogonality compensatio system for an oscilloscope. 4,667,135, 5-19-87, Cl. 315-371.000.

Bristol, Lloyd R.: *See—*

  Shank, Gordon W.; Bristol, Lloyd R.; Eby, David H.; and Kle Jeffrey A., 4,644,337, Cl. 340-709.000.

  Shank, Gordon W., and Bristol, Lloyd R., 4,647,915, C 340-709.000.

Bristol-Myers Company: *See—*

  Aburaki, Shimpei; Narita, Yukio; Okumura, Jun; Naito, Takayu and Walker, Donald G., 4,659,812, Cl. 540-222.000.

  Adams, Samuel G., 4,645,239, Cl. 283-70.000.

  Adams, Samuel G., 4,662,971, Cl. 156-270.000.

  Alderdice, Marc T., 4,687,772, Cl. 514-273.000.

  Algieri, Aldo A.; and Crenshaw, Ronnie R., 4,644,006, C 514-362.000.

  Algieri, Aldo A.; and Crenshaw, Ronnie R., 4,692,531, C 548-193.000.

  Begum, Selima; Ullah, Ismat; and Nunning, Bernard C., 4,711,2 Cl. 424-455.000.

  Brundidge, Steven P.; Brodfuehrer, Paul R.; Sapino, Chet, J Shih, Kun M.; and Walker, Donald G., 4,714,760, C 540-222.000.

  Crast, Leonard B., Jr., 4,694,079, Cl. 540-215.000.

  Dillon, John L.; and Spector, Richard H., 4,675,409, C 546-185.000.

  Gamble, Donald E.; Hunter, Harry L.; and McKinney, Gordon 4,687,771, Cl. 514-253.000.

  Hoshi, Hideaki; Okumura, Jun; Naito, Takayuki; Abe, Yoshio; an Aburaki, Shimpei, 4,661,590, Cl. 540-215.000.

  Hoshi, Hideaki; Okumura, Jun; Naito, Takayuki; Abe, Yoshio; an Aburaki, Shimpei, 4,699,979, Cl. 540-215.000.

  Iimura, Seiji; Abe, Yoshio; Okumura, Jun; Naito, Takayuki; an Kamachi, Hajime, 4,708,955, Cl. 514-202.000.

  Johnson, Porter C., 4,649,048, Cl. 424-81.000.

  Kaneko, Takushi; Wong, Henry S. L.; and Doyle, Terrence W. 4,642,352, Cl. 548-422.000.

  Kaneko, Takushi; and Wong, Henry S. L., 4,652,644, C 544-58.500.

  Kaplan, Murray A.; and Vyas, Dolatrai M., 4,639,528, C 548-422.000.

  Kaplan, Murray A., 4,663,458, Cl. 546-106.000.

  Kaplan, Murray A.; Bogardus, Joseph B.; and Lipper, Robert A. 4,680,389, Cl. 540-222.000.

  Kim, Choung U., and Misco, Peter F., Jr., 4,640,799, C 540-350.000.

  Kim, Choung U., and Misco, Peter F., Jr., 4,642,341, C 540-350.000.

  Kim, Choung U., 4,644,061, Cl. 540-350.000.

  Kim, Choung U., and Misco, Peter F., Jr., 4,665,170, C 540-350.000.

  Kim, Choung U., 4,683,301, Cl. 540-350.000.

  Kim, Choung Un., and Misco, Peter F., Jr., 4,710,568, C 540-350.000.

  Konishi, Masataka; Saitoh, Kyoichiro; Ohkuma, Hiroaki; an Kawaguchi, Hiroshi, 4,675,187, Cl. 424-117.000.

  Konishi, Masataka; Tomita, Koji; Oka, Masahisa; and Nam Ken-ichi, 4,692,510, Cl. 530-317.000.

  Konishi, Masataka; Saitoh, Kyoichiro; Ohkuma, Hiroaki; an Kawaguchi, Hiroshi, 4,708,872, Cl. 424-115.000.

  Kurtz, Neil M.; Newton, Roger E.; and Temple, Davis L., J 4,634,703, Cl. 514-252.000.

  Martel, Alain; and Daris, Jean-Paul, 4,639,335, Cl. 540-304.00

  Martel, Alain; and Bachand, Carol, 4,665,169, Cl. 540-350.00

  Meanwell, Nicholas; and Wright, John J., 4,668,686, C 514-293.000.

  Meanwell, Nicholas A.; and Wright, John J., 4,701,459, C 514-293.000.

  New, James S.; and Yevich, Joseph P., 4,677,104, Cl. 514-222.0

  Puski, Gabor; Hartman, Grant H., Jr.; and Talbott, Robert D. 4,697,004, Cl. 530-378.000.

  Saitoh, Kyoichiro; Konishi, Masataka; and Tomita, Koji, 4,690,5 Cl. 514-269.000.

  Simonian, Hovsep, 4,664,915, Cl. 424-128.000.

  Sloma, Alan, 4,695,543, Cl. 435-70.000.

  Thompson, Michael D.; and Madding, Gary D., 4,701,528, C 544-278.000.

  Tsunakawa, Mitsuaki; Konishi, Masataka; and Miyaki, Take 4,683,230, Cl. 314-214.000.

  Ueda, Yasutsugu; and Roberge, Guy, 4,683,296, Cl. 539-558.00

  Vyas, Dolatrai M.; and Skonezny, Paul M., 4,644,072, C 549-433.000.

  Vyas, Dolatrai M.; Chiang, Yulin; and Doyle, Terrence W. 4,691,023, Cl. 548-422.000.

  Vyas, Dolatrai M.; Doyle, Terrence W., and Chiang, Yuli 4,692,538, Cl. 558-6.000.

Varner, Paul L., Jr.; Kornegay, Grey B., and Redl, George, 4,666,896, Cl. 514-114.000

evich, Joseph P., and Lobeck, Walter G., Jr., 4,656,173, Cl. 514-253.000

evich, Joseph P.; and Mattson, Ronald J., 4,668,687, Cl. 514-252.000

e, Donald L., and Stoller, Milton, to Spectrascan, Inc. Soft tissue mination method and apparatus. 4,651,744, 3-24-87, Cl. 660.000

a, Duncan J.; Achia, Biddanda U., and Evers, Lawrence J., to on Research and Engineering Company. Process for increasing phalted oil production from upgraded residua. 4,673,485, 6-16-87, 208-86.000

e, Ian T., to Hobourn-Eaton Limited. Rotary vane pump with al outlet ports and relationship for cam surface radii. 4,659,296, 87, Cl. 418-15.000.

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asserfilter GmbH: See—

ekammer, Heinz, 4,666,600, Cl. 210-266.000.

e Industrias Quimicas Ltda.: See—

s dos Santos, Danilo A., 4,660,474, Cl. 102-275.800

Kolb GmbH & Co.: See—

st, Hans-H., 4,682,791, Cl. 280-806.000.

st, Hans-Hellmut, and Lochbihler, Edmund, 4,687,253, Cl. 87-478.000

ega Limited: See—

lis, Peter J., and Tysoe, Nicholas W., 4,644,455, Cl. 362-309.000

Veathershields Limited: See—

ningham, Douglas J., 4,655,500, Cl. 296-223.000.

ard, John W., 4,647,105, Cl. 296-221.000.

Vingard Limited: See—

dy, Ian, and Gurteen, Shaun, 4,679,758, Cl. 248-479.000.

Aerospace PLC: See—

eneen, Peter, 4,690,736, Cl. 204-38.300

es, Michael G., and Coulthard, Walter, 4,654,954, Cl. -568.000

ey, Peter W., 4,707,735, Cl. 358-108.000.

, Malcolm S., and Barlow, Arthur J., 4,708,479, Cl. 6-350.000

wistle, Brian; Roberts, Peter; and Rogerson, John M., 4,698,766, 364-468.000.

s, John A., 4,653,920, Cl. 356-350.000

lding, Kenneth, 4,709,877, Cl. 244-3.280.

ey, Charles P., 4,693,172, Cl. 98-2.010.

a, Sidney J.; Tittler, Philip; and Walley, Gerald D., 4,646,202, 361-382.000

, Jeffrey A., and Rees, Peter H., 4,714,215, Cl. 244-199.000

e, Paul D., 4,651,576, Cl. 74-5.460

on, Spencer D.; and Phillips, John W., 4,714,216, Cl. 4-3.290

y, Mark C., 4,709,878, Cl. 244-328.000

ray, David T.; and Tilsley, Gwilym J., 4,680,723, Cl. 4-571.000

g, Ronald W., 4,691,882, Cl. 244-158.00R

can Aluminium Limited: See—

son, Victor J., deceased, 4,703,889, Cl. 237-70.000.

merican Tobacco Company Limited: See—

n, Ian C.; Hedge, Roger W.; and Molyneux, David J., 96,313, Cl. 131-291.000

n, Ian C.; Hedge, Roger W.; and Molyneux, David J., 97,604, Cl. 131-296.000.

lston, David E., 4,644,963, Cl. 131-336.000

, Martin G., 4,644,964, Cl. 131-336.000

s, John D., 4,662,384, Cl. 131-335.000.

e, Roger W., and Brown, Ian C., 4,641,665, Cl. 131-296.000

e, Roger W., 4,693,264, Cl. 131-296.000

well, Henry G.; and Duke, Martin G., 4,649,942, Cl. -336.000

well, Henry G., and Duke, Martin G., 4,660,576, Cl. -336.000

well, Henry G.; Duke, Martin G.; and Phelpstead, James W., 60,579, Cl. 131-339.000

well, Henry G.; and Duke, Martin G., 4,700,724, Cl. -336.000

John A., and McCreadie, John F., 4,651,756, Cl. 131-95.000

John A., 4,714,083, Cl. 131-94.000.

, Keith D.; Taylor, Peter J.; Poley, John; Norvall, Christo- r W.; and Upton, John, 4,685,475, Cl. 131-84.100

adcasting Corporation: See—

, Ian, 4,680,638, Cl. 358-214.000.

e, Christopher K. P., 4,638,351, Cl. 358-38.000.

lumbia Research Council: See—

n, Manssur, 4,683,298, Cl. 536-45.000

lumbia Telephone Company: See—

, Michael J.; and McKay, James B., 4,674,087, Cl. 100.000

, Michael J.; and McKay, James B., 4,683,567, Cl. 110.100

Corporation: See—

eoffrey; Galliver, Robin; and White, Martin, 4,658,803, Cl. 355.000

son, Alan J., 4,694,574, Cl. 30-94.000.

Dobson, John V., 4,666,565, Cl. 204-1.00T.

Johnson, Alan, 4,639,580, Cl. 219-541.000.

Masters, Jeffery; and Webb, Roger J., 4,671,345, Cl. 165-9.300.

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Melvin, Alec, 4,667,766, Cl. 181-113.000.

Munday, Keith, 4,653,782, Cl. 285-373.000.

O'Hair, John G.; and Nolan, Michael E., 4,646,575, Cl. 73-861.310.

Parkes, Adrian S.; Corbett, Gordon J.; Clough, Peter S., and Barker, Colin N. H., 4,643,855, Cl. 264-36.000.

Parkinson, Neil, 4,663,975, Cl. 73-778.000.

Stafford, Trevor G., 4,640,732, Cl. 156-358.000.

Wayman, Malcolm; and Mood, Geoffrey I., 4,674,914, Cl. 405-154.000.

Wayman, Malcolm; and Mood, Geoffrey I., 4,693,404, Cl. 225-103.000.

Webb, Stephen F., and Merrick, Brian J., 4,673,449, Cl. 156-94.000.

British Gas plc: *See*—

Wray, George; Ward, Trevor; and Goodfellow, James H., 4,676,744, Cl. 432-181.000.

British Hydromechanics Research Association, The: *See*—

Fairhurst, Robert M.; and Saunders, David H., 4,642,944, Cl. 51-436.000.

Pollard, Geoffrey J., and Baker, Roger C., 4,685,811, Cl. 366-275.000.

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Malyon, Brian R., 4,636,868, Cl. 358-285.000.

Malyon, Brian R., 4,645,332, Cl. 355-25.000.

Malyon, Brian R., 4,655,478, Cl. 281-45.000.

Malyon, Brian R., 4,666,287, Cl. 355-8.000.

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Crawford, Gordon, 4,674,946, Cl. 414-729.000.

Eccles, Harry; and Fell, Stephen A., 4,693,795, Cl. 204-94.000.

Entwistle, James R., 4,668,346, Cl. 204-1.00T.

Garraway, John; and Wilson, Peter D., 4,656,011, Cl. 423-10.000.

Hayes, Michael R., 4,643,873, Cl. 419-33.000.

Orr, Thomas F., 4,657,145, Cl. 209-698.000.

Sperinck, William A., and Hall-Wilton, Michael J., 4,638,675, Cl. 73-864.340.

Sperinck, William A., and Ashcroft, Keith C., 4,668,153, Cl. 414-411.000.

Welch, Phillip J., 4,688,435, Cl. 73-864.340.

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Allum, Stephen M., and Chesters, David A., 4,634,372, Cl. 431-202.000.

Alper, Howard; and Smith, David J. H., 4,634,780, Cl. 549-273.000.

Alper, Howard; Smith, David J. H., and Woell, James B., 4,642,370, Cl. 560-100.000.

Alper, Howard; Shim, Sang C.; and Smith, David J. H., 4,661,619, Cl. 560-100.000.

Alper, Howard; and Smith, David J. H., 4,665,213, Cl. 560-105.000.

Alper, Howard; Despeyroux, Bertrand; Smith, David J. H., and Woell, James B., 4,681,707, Cl. 260-410.90R.

Alper, Howard; and Smith, David J. H., 4,694,097, Cl. 560-24.000.

Alper, Howard; and Smith, David J. H., 4,704,481, Cl. 568-658.000.

Alper, Howard; and Smith, David J. H., 4,705,880, Cl. 558-257.000.

Atkins, Martin P., 4,661,464, Cl. 502-84.000.

Barri, Sami A. I.; and McNiff, Timothy K., 4,654,316, Cl. 502-61.000.

Barri, Sami A. I., and McNiff, Timothy K., 4,654,454, Cl. 585-415.000.

Barri, Sami A. I., 4,665,267, Cl. 585-660.000.

Berthier, Claude M., and Friend, Richard H., 4,681,822, Cl. 429-191.000.

Bollands, Martin A.; Pike, William C.; Thukral, Prem S., and Woolmington, Timothy P., 4,715,455, Cl. 175-402.000.

Brookes, David A., 4,707,162, Cl. 44-51.000.

Brophy, John H.; Font Freide, Josephus J. H. M.; and Tomkinson, Jeremy D., 4,652,688, Cl. 585-408.000.

Brophy, John H.; Font Freide, Josephus J. H. J.; and Tomkinson, Jeremy D., 4,665,270, Cl. 585-642.000.

Brophy, John H., and Nock, Anthony, 4,705,906, Cl. 585-262.000.

Bunch, Graham; and Dawes, Richard G., 4,638,766, Cl. 122-398.000.

Burchell, Steven P.; Kerley, Nicholas W., and Mellor, David W., 4,658,601, Cl. 62-514.00R.

Callaghan, Ian C.; Gould, Clive M.; and Grabowski, Wojciech, 4,711,714, Cl. 208-348.000.

Camp, Mark A., and Lawrence, Frank T., 4,677,304, Cl. 250-577.000.

Chesters, David A., 4,634,370, Cl. 431-202.000.

Chinery, David, 4,677,859, Cl. 73-861.720.

Corvazier, Philippe; and Dousteyssier, Jacques, 4,691,113, Cl. 250-577.000.

Dean, Alan J., and Hardy, Ian J., 4,706,756, Cl. 166-344.000.

Edwards, David M.; and Haywood, Kenneth H., 4,643,670, Cl. 431-202.000.

Feast, William J.; and Winter, Jeremy N., 4,673,731, Cl. 528-503.000.

Fisher, Robert G.; James, Keith; and Pring, Graham M., 4,672,081, Cl. 523-109.000.

Gerrard, Donald L.; Preedy, John E., and Williams, Kenneth P. J., 4,693,377, Cl. 209-579.000.

Gregory, Reginald, and Westlake, David J., 4,665,220, Cl. 560-247.000.

Grinsted, Timothy W.; and Reece, Alan R., 4,664,553, Cl. 405-180.000.

Hall, Antony H. P.; and McCarroll, John J., 4,695,663, Cl. 585-417.000.
Hockley, Peter J.; and Thwaites, Michael J., 4,665,428, Cl. 357-58.000.
Hockley, Peter J.; and Thwaites, Michael J., 4,665,504, Cl. 365-163.000.
Hopper, Hans P., 4,684,291, Cl. 405-190.000.
Howes, Roger J.; and Othen, David G., 4,687,595, Cl. 252-387.000.
Hyde, Edward A.; and McNiff, Timothy K., 4,642,403, Cl. 585-415.000.
Jee, Trevor P., 4,679,598, Cl. 138-103.000.
Lucy, Andrew R.; and Morris, George E., 4,642,374, Cl. 560-204.000.
McKechnie, Malcolm T.; and Thompson, David G., 4,684,457, Cl. 208-188.000.
Moore, John, 4,705,314, Cl. 294-115.000.
Morris, George E.; and Wainhouse, Gillian, 4,644,078, Cl. 558-277.000.
Morris, George E.; and Wainhouse, Gillian, 4,689,430, Cl. 560-204.000.
Othen, David G., 4,643,769, Cl. 106-1.170.
Owen, Alan E.; Sarrabayrouse, Gerard; LeComber, Peter G.; and Spear, Walter E., 4,684,972, Cl. 357-59.000.
Reece, Alan R., 4,655,639, Cl. 405-181.000.
Stephenson, Graham W.; and Toft, Richard C., 4,694,909, Cl. 166-359.000.
Wills, Anthony J., 4,690,295, Cl. 220-207.000.
British Postgraduate Medical Federation: *See—*
Gray, Charles R. W.; and Crawford, Neville, 4,680,177, Cl. 424-101.000.
British Shipbuilders: *See—*
Martyr, David R., 4,634,832, Cl. 219-121.0LC.
British Steel Corporation: *See—*
Beckley, Philip, 4,652,316, Cl. 148-112.000.
Davies, Colin M.; and Hamilton, William, 4,665,593, Cl. 24-459.000.
Laycock, Arthur; Harris, Michael J., and Broxholme, Mark A., 4,636,249, Cl. 75-53.000.
Spenceley, Gene D.; and Henderson, Steven, 4,694,889, Cl. 164-488.000.
Spenceley, Gene D.; and Welbourn, Brian C., 4,701,216, Cl. 75-59.100.
British Telecommunications plc: *See—*
Adams, Peter F.; and Cowan, Colin F. N., 4,694,451, Cl. 370-32.100.
Ainslie, Benjamin J.; Day, Clive R.; and Beales, Keith J., 4,675,038, Cl. 65-3.120.
Ballance, John W., 4,651,330, Cl. 375-108.000.
Cotter, David, 4,665,524, Cl. 372-18.000.
Croft, David C., 4,686,383, Cl. 307-200.00B.
Davies, Graham J.; and Elliott, Charles R., 4,675,086, Cl. 204-129.300.
Docherty, Brian; and Lambley, Stephen, 4,672,759, Cl. 40-450.000.
Edwards, David J.; and Watson, Barry K., 4,704,611, Cl. 342-367.000.
Else, Ronald, 4,696,033, Cl. 379-424.000.
Fox, John R.; Powter, Edwin J.; and Ritchie, William K., 4,709,418, Cl. 455-612.000.
Gray, Michael J.; Langdon, Ian; and Woods, Barry J., 4,661,811, Cl. 340-744.000.
Greaves, Alan J.; and Hunter, Phillip J., 4,686,486, Cl. 330-107.000.
Haigh, John; and Aylett, Martin R., 4,705,593, Cl. 156-635.000.
Hewitt, Michael T. H.; Ballance, John W.; and Scott, Richard P. I., 4,642,806, Cl. 370-95.000.
Hewitt, Michael T. H., 4,670,889, Cl. 375-107.000.
Houghton, Andrew J. N., 4,647,339, Cl. 156-643.000.
Jenkins, Peter D., 4,707,065, Cl. 350-96.200.
Magill, Lawrence, 4,676,483, Cl. 254-266.000.
Mallinson, Stephen R., 4,666,237, Cl. 350-96.200.
McGrail, Joseph M., 4,703,201, Cl. 307-290.000.
McKeown, James H. A., 4,679,248, Cl. 455-226.000.
McKeown, James H. A., 4,695,972, Cl. 364-819.000.
Millar, Colin A.; Talbott, David; Potter, David J.; and Wood, Thomas D. S., 4,667,862, Cl. 225-2.000.
Miller, Christopher G., 4,674,033, Cl. 364-200.000.
Moss, Rodney H.; and Spurdens, Paul C., 4,664,743, Cl. 156-613.000.
Reeve, Michael H., and Cassidy, Stephen A., 4,691,896, Cl. 254-134.400.
Westall, Frederick A.; Lee, Dominic S.; Cameron, Ian R.; and McLintock, Robert W., 4,703,480, Cl. 370-111.000.
Whitehead, Graham K.; and Taylor, Kenneth, 4,682,270, Cl. 361-401.000.
Brito, Joseph B.: *See—*
McHenry, Robert J.; Brito, Joseph B.; Piatt, Wilson T., Jr.; Reed, Robert J.; Vavadarajan, Krishnaraju; Spencer, Kenneth B.; Tsai, Boh C.; Williams, Mark A.; Vosti, Donald C.; and Wachtel, James A., 4,642,968, Cl. 53-425.000.
McHenry, Robert J.; Brito, Joseph B.; Piatt, Wilson T., Jr.; Reed, Robert J.; Varadarajan, Krishnaraju; Spencer, Kenneth B.; Tsai, Boh C.; Williams, Mark A.; Vosti, Donald C.; and Wachtel, James A., 4,667,454, Cl. 53-425.000.
Britoil Public Limited Company: *See—*
Bryant, Michael J.; Attenborough, Frank R.; Sykes, Christopher G.; and Cameron, Neil W., 4,638,469, Cl. 367-154.000.
Cameron, Neil W., 4,689,774, Cl. 367-20.000.
Darton, Kenneth S.; and Larsen, Jonathan P., 4,648,078, Cl. 367-13.000.
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Britsch, Helmut: *See—*
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Britt, Thomas R.; and Burton, Willie C., to Dow Chemical Company, The. Process for preparing substituted bis-ethers. 4,683,333, 7-28-87, Cl. 564-414.000.
Brittain, David R., to Marley Tile AG. Method and apparatus for manufacturing roof tiles. 4,666,648, 5-19-87, Cl. 264-145.000.
Brittain, Kent R.: *See—*
Olson, Keith E.; and Brittain, Kent R., 4,681,914, Cl. 252-91.000.
Brittain, Virgil R.: *See—*
Cybulsky, Michael; Piwonka, Thomas S.; and Brittain, Virgil R., 4,683,936, Cl. 164-122.100.
Brittan, John L. Grade averaging calculator. 4,715,011, 12-22-87, Cl. 364-734.000.
Brittelli, David R., to Du Pont de Nemours, E. I., and Company. Tetraphosphinylquinodimethanes. 4,650,609, 3-17-87, Cl. 260-396.00N.
Britten, Glenwood J. Combination fishing reel. 4,688,738, 8-25-87, Cl. 242-84.20B.
Britten, Roy J., to California Institute of Technology. Avalanche counter and encoder system for counting and mapping radioactive specimens. 4,642,465, 2-10-87, Cl. 250-389.000.
Brittin, Darryl S.: *See—*
Bhalaik, Arun; Braddick, Peter W.; Brittin, Darryl S.; and Johnson, Gerald L., 4,695,194, Cl. 405-207.000.
Brittingham, Louis W., Jr. Measured volume dispenser. 4,635,82 1-13-87, Cl. 222-278.000.
Britton, James N., to Wayne Graham & Associates International, Inc. Method and apparatus for direct measurement of current de 4,644,285, 2-17-87, Cl. 324-425.000.
Britton, James N., to Wayne Graham & Associates International, Inc. Subsea clamping apparatus. 4,705,331, 11-10-87, Cl. 439-387.000.
Britton, Thomas N., II: *See—*
Kypke, Dean A.; Hawley, Philip R.; Britton, Thomas N., II, and White, George J., 4,662,788, Cl. 405-204.000.
Britts, William C., II; Kaveh, Farrokh; and Lin, David C. K., to Owens-Corning Fiberglas Corporation. Method and apparatus for producing fine fibers. 4,689,061, 8-25-87, Cl. 65-6.000.
Britvec, Stanislaus J. Fastening member for reticulated structure 4,646,504, 3-3-87, Cl. 52-648.000.
Britz, Elizabeth A. Invalid chair. 4,654,904, 4-7-87, Cl. 5-81.00R.
Britz, Richard D., to Earthship Enterprise, Inc. Modular building structure. 4,633,629, 1-6-87, Cl. 52-169.110.
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Heist, Hans; Toepfer, Dieter; and Britzke, Sylvia, 4,678,310, Cl. 354-319.000.
Brizgis, Lawrence J.; Keleher, Daniel B.; and Bandelow, Vernon D., to Deere & Company. Grain damage analyzer. 4,713,781, 12-15-87, Cl. 364-552.000.
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Mattei, Riccardo; and Brizzi, Marco, 4,700,825, Cl. 198-419.000.
Bro, William J.; and Carter, L. Philip. Apparatus and method for determining intracranial pressure and local cerebral blood flow 4,677,985, 7-7-87, Cl. 128-691.000.
Bro, William J. Apparatus for and method of monitoring and controlling body-function parameters during intracranial observation 4,688,577, 8-25-87, Cl. 128-670.000.
Broacha, Firoze H.: *See—*
Sivachenko, Eugene W.; and Broacha, Firoze H., 4,706,319, Cl. 14-73.000.
Broadbent, Edward G. Van bodies. 4,671,562, 6-9-87, Cl. 296-181.000.
Broadbent, Ronald: *See—*
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Broadcast Electronics, Inc.: *See—*
Salek, Stanley, 4,638,504, Cl. 381-16.000.
Broaddus, Clarke R.; and Gollhardt, Bradley J., to Du Pont de Nemours, E. I., and Company. Apparatus for quenching melt spun filaments. 4,712,988, 12-15-87, Cl. 425-725.000.
Broadhurst, Daniel J. S., to Olympia Sports Products, Inc. Recreational semi-displacement hull watercraft. 4,660,490, 4-28-87, Cl. 114-56.000.
Broadhurst, Michael D.; and Gless, Richard D., Jr., to Stauffer Chemical Company. Process for the preparation of N-arylhalopyrrolid-2-ones. 4,645,843, 2-24-87, Cl. 548-543.000.
Broadus, John G., to Union Oil Company of California. Process for eliminating static venting of vapor-dominated geothermal wells 4,648,458, 3-10-87, Cl. 166-370.000.
Broadway, Alexander R. W., to National Research Development Corporation. Pole changeable, three phase windings. 4,672,251, 6-9-87, Cl. 310-198.000.
Broadwin, Alan: *See—*
Kreizman, Alexander; and Broadwin, Alan, 4,634,419, Cl. 604-22.000.
Broberg, Arne; and Mansson, Ragnar, to AB Asea-Atom. Fuel assembly for a nuclear reactor. 4,671,926, 6-9-87, Cl. 376-364.000.
Broberg, Theodore W.; and Rathe, David D., to Honeywell Inc. Ring laser start up apparatus. 4,667,162, 5-19-87, Cl. 330-4.300.
Broch, Orville V.: *See—*
Frankard, James M.; and Broch, Orville V., 4,680,126, Cl. 210-710.000.

Brochand, Max, to Pomagalski S.A. Rope coupling carriage having concave track between grips. 4,691,643, 9-8-87, Cl. 104-202.000.

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  Auduc, Herve; and Aucagne, Jean, 4,690,851, Cl. 428-116.000.

Brochon, Marie-Jose ; and Corot, Anne-France, to Societe a Responsabilite Limitee Dite "Korano". Gel-forming semisynthetic polygalactan metallic oxide complex. 4,668,779, 5-26-87, Cl. 536-121.000.

Brochstein, Irwin H., to Pro-Mark Corporation. Drumstick. 4,702,143, 10-27-87, Cl. 84-422.00S.

Brochu, Fernand: *See*—

  Armand, Michel; Chabagno, Jean-Michel; Ricoux, Philippe; Vassort, Guy; Gauthier, Michel; Brochu, Fernand; and Rigaud, Philippe, 4,683,181, Cl. 429-192.000.

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ock, David L.: *See*—

  Salisbury, John K., Jr.; and Brock, David L., 4,635,479, Cl. 73-862.040.

ock, Earl D., to Proctor & Gamble Company. The. Sunscreen compositions. 4,663,157, 5-5-87, Cl. 424-59.000.

ock, J. Donald; and May, James G., to Astec Industries, Inc. Coal-fired asphalt plant. 4,638,747, 1-27-87, Cl. 110-264.000.

ock, J. Donald, to Astec Industries, Inc. Drum mix asphalt plant with nock-out box and separate pugmill coater. 4,715,720, 12-29-87, Cl. 66-25.000.

ck, James D., to Astec Industries, Inc. Method and apparatus for ecycling roofing shingles as an additive to asphalt paving composi- on. 4,706,893, 11-17-87, Cl. 241-23.000.

ck, James R. Wettable spray box. 4,638,926, 1-27-87, Cl. 222-82.000.

ck, Josef; and Surkamp, Paul, to W. Schlafhorst & Co. Rotary obby. 4,643,231, 2-17-87, Cl. 139-66.00R.

ck, Josef; and Surkamp, Paul, to W. Schlafhorst & Co. Rotary obby. 4,646,788, 3-3-87, Cl. 139-76.000.

ck, Larry D.: *See*—

  Lala, Jaynarayan H.; and Brock, Larry D., 4,665,522, Cl. 371-36.000.

ck, Marilyn A., and Scheffer, Daniel G., to Ohaus Scale Corpora- n. Spring-type adjustable mounting for weighing scale flexures. 79,642, 7-14-87, Cl. 177-164.000.

k, Marilyn A.: *See*—

  Scheffer, Daniel G., and Brock, Marilyn A., 4,697,658, Cl. 177-229.000.

k, Robert E., to Triangle Tool Corporation. Injection mold includ- g mold sidewall locking bars. 4,678,158, 7-7-87, Cl. 249-161.000.

k, Robert K.: *See*—

  ohnson, Phil E.; and Brock, Robert K., 4,638,726, Cl. 92-241.000.

k, Thorsten, to U.S. Philips Corporation. Circuit arrangement for tinguishing between the two fields in a television signal. 4,683,495, 8-87, Cl. 358-148.000.

, Timothy A., to Phillips Petroleum Company. Expansible and tractible duct. 4,685,703, 8-11-87, Cl. 285-47.000.

bank, Lucas T.; Day, Donald; and Zukowski, Robert F. Push-in tor starter and glo plug igniter for model airplanes. 4,653,444, -87, Cl. 123-179.0AS.

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  nofel, Hartmut; Penninger, Stefan; Brockelt, Michael; Hammen, Gunter; and Stutz, Herbert, 4,675,437, Cl. 560-330.000.

er, Heinz: *See*—

  eller, Heinz; Brocker, Heinz; and Lehner, Martin, 4,705,608, Cl. 204-28.000.

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tt, William S.: *See*—

  rtin, James M.; Brockett, William S.; Selleck, Ronald R.; and Croteau, Michael G., 4,639,138, Cl. 356-350.000.

aus, Ernst, to Ed. Scharwachter GmbH & Co. KG. Hinge bly for motor vehicle doors. 4,675,940, 6-30-87, Cl. 16-273.000.

aus, Peter B. Sportsman's pad. 4,658,452, 4-21-87, Cl. 5-420.000.

aus, Peter B. Convertible cooler and cushion. 4,679,242, 7-7-87, 3-4.000.

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  ke, Cyril F.; and Brocklehurst, John R., 4,678,659, Cl. 4-451.000.

urst, Peter; and Ferguson, Angus S., to Sterling Drug Inc. stripper compositions. 4,643,840, 2-17-87, Cl. 252-160.000.

e, David M. Special purpose peripheral circuit and method of ting the same to a computer. 4,706,189, 11-10-87, Cl. 0.000.

n, Eugen: *See*—

  mark, Detlef; Weid, Manfred; and Brockmann, Eugen, 59,306, Cl. 431-12.000.

n, Rolf; Casper, Clemens; Damsky, Walter; Lippert, Axel; ben, Johannes O., to Bayer Aktiengesellschaft. Process for the l of residual constituents. 4,637,857, 1-20-87, Cl. 159-47.100.

n, Rolf; Jeromin, Lutz; Johannisbauer, Wilhelm; Meyer, Michel, Otto; and Plachenka, Juergen, to Henkel Komman- chaft auf Aktien. Glycerol distillation process. 4,655,879, Cl. 203-37.000.

n, Werner, to Nixdorf Computer AG. Logic array chip. 4, 8-25-87, Cl. 357-45.000.

Brockmanns, Karl-Josef; and Lunenschloss, Joachim. Method and device for the formation of spinning fibers. 4,676,062, 6-30-87, Cl. 57-400.000.

Brockmeier, Arthur E.: *See*—

  Brockmeier, Kenneth R.; and Brockmeier, Arthur E., 4,697,404, Cl. 56-6.000.

Brockmeier, Kenneth R.; and Brockmeier, Arthur E., to Brockmeier Sod Farms. Tractor mower system. 4,697,404, 10-6-87, Cl. 56-6.000.

Brockmeier Sod Farms: *See*—

  Brockmeier, Kenneth R.; and Brockmeier, Arthur E., 4,697,404, Cl. 56-6.000.

Brockmeyer, Jerry W.; Aubrey, Leonard S.; Dore, James E.; and Soble, Clifford N., to Swiss Aluminium Ltd. Vented pouring cup for molten metal casting. 4,708,326, 11-24-87, Cl. 266-159.000.

Brockmuller, Uwe: *See*—

  Scholl, Herbert; and Brockmuller, Uwe, 4,699,529, Cl. 384-560.000.

  Scholl, Herbert; and Brockmuller, Uwe, 4,702,626, Cl. 384-477.000.

Brocksieper, Manfred: *See*—

  Feller, Otto; Brocksieper, Manfred; and Luckger, Rolf, 4,679,472, Cl. 82-19.000.

Brockway, Charles E.; and Saeli, John J., to Nalge Company. Electrically powered and heated endodontic syringe. 4,684,344, 8-4-87, Cl. 433-81.000.

Brockway, Inc.: *See*—

  Joseph, James R.; Wesdock, James F.; Lerch, Allen; Chollock, Ronald; Waugaman, John; Lindberg, Glenn; Wymer, James R.; and Brennen, Brad, 4,655,349, Cl. 209-524.000.

Brodalla, Dieter: *See*—

  Osberghaus, Rainer; Brodalla, Dieter; Geissler, Roland; and Bossek, Harald, 4,661,170, Cl. 148-6.270.

Brodasky, Thomas F.: *See*—

  Dolak, Lester A.; Laborde, Alice L.; Sebek, Oldrich K.; Castle, Thomas M.; and Brodasky, Thomas F., 4,689,300, Cl. 435-253.000.

Brodbeck, Howard D.: *See*—

  Burckhardt, Klaus A.; and Brodbeck, Howard D., 4,705,574, Cl. 134-17.000.

  Obman, Howard J.; and Brodbeck, Howard D., 4,643,401, Cl. 266-80.000.

Brodbeck, Klaus-Peter: *See*—

  Arendt, Gerhard; Brodbeck, Klaus-Peter; Engenhart, Reinhold; Schmidt, Viktor; and Wedler, Klaus, 4,642,965, Cl. 53-118.000.

Brodbeck, Werner, to Daimler-Benz Aktiengesellschaft. Auxiliary planet-wheel gear for a motor vehicle. 4,663,989, 5-12-87, Cl. 74-781.00R.

Broddner, Sven M.; Hogman, Leif B.; Nyman, Rune; and Klintholm, Lars, to Gambro Engstrom AB. Anesthesia and/or respirator apparatus having a moistening and/or gasification chamber. 4,657,008, 4-14-87, Cl. 128-203.270.

Broddner, Sven M.; Bromster, Leif; Lundell, Ulf, and Pilenvik, Goran S., to Gambro Engstrom AB. Respirator and/or anesthesia supply apparatus. 4,702,242, 10-27-87, Cl. 128-205.130.

Brode, George L.: *See*—

  Gardner, Hugh C.; Michno, Michael J., Jr.; Brode, George L.; and Cotter, Robert J., 4,661,559, Cl. 525-65.000.

Brode, George L., II; Kreeger, Russell L.; Goddard, Errol D.; Merritt, Frederick M., II; and Braun, David B., to Union Carbide Corporation. Hydrophobe substituted, water-soluble cationic polysaccharides. 4,663,159, 5-5-87, Cl. 424-70.000.

Brodell, Robert F.; and Laurello, Vincent P., to United Technologies Corporation. Thrust balancing and cooling system. 4,653,267, 3-31-87, Cl. 60-39.020.

Brodell, Robert F.: *See*—

  Dennison, William T.; and Brodell, Robert F., 4,704,862, Cl. 60-226.200.

Broden, David E.; Martwick, Wilford E.; and Warren, John B., to Honeywell Inc. Discarding sabot projectile. 4,709,638, 12-1-87, Cl. 102-522.000.

Broden, Gert; and Haapanen, Goran, to AGA AB. Device in cutting torches. 4,653,731, 3-31-87, Cl. 266-48.000.

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  Mitsuya, Hiroaki; and Broder, Samuel, 4,704,357, Cl. 435-32.000.

Broderick, Dennis W.; and Vincent, Harold L., to Dow Corning Corporation. Hard organopolysiloxane release coating. 4,681,908, 7-21-87, Cl. 524-268.000.

Broderick, Dennis W.: *See*—

  Swihart, Terence J.; and Broderick, Dennis W., 4,677,147, Cl. 524-268.000.

Broderick, Thomas B.; Algrim, Donald J.; and Hayden, Richard F., to Owens-Corning Fiberglas Corporation. Insulation batt with press-on facing flanges. 4,709,523, 12-1-87, Cl. 52-406.000.

Broderna Holmbergs Fabriks AB: *See*—

  Hultqvist, Lars, 4,644,615, Cl. 24-574.000.

  Orje, Christer H., 4,704,771, Cl. 24-574.000.

Broderna Solbergs Forsaljnings Aktiebolag: *See*—

  Sohlberg, Jan-Henrik; and Olsson, Seth I. S., 4,633,650, Cl. 53-415.000.

Brodeur, Rene H.; and Terlecky, Boris S., to Trailer Train Company. Railroad car with universal coupling capability. 4,681,040, 7-21-87, Cl. 105-3.000.

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  Brundidge, Steven P.; Brodfuehrer, Paul R.; Sapino, Chet, Jr.; Shih, Kun M.; and Walker, Donald G., 4,714,760, Cl. 540-222.000.

Brodie, Alastair C., to Glaxo Group Limited. Manufacture of antibiotics. 4,667,029, 5-19-87, Cl. 540-225.000.

Brodie, Alastair C.: *See—*
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Brodie, Malcolm J. Rock climbing anchor. 4,712,754, 12-15-87, Cl. 248-1.000.

Brodman, Richard F. Intracardiac catheter and a method for detecting myocardial ischemia. 4,681,117, 7-21-87, Cl. 128-642.000.

Brodmann, Richard: *See—*
Bernitz, Bernhard; Brodmann, Richard; and Hermann, Dietmar, 4,643,923, Cl. 428-31.000.
Bernitz, Bernhard; Brodmann, Richard; and Hermann, Dietmar, 4,698,193, Cl. 264-171.000.
Hermann, Dietmar; and Brodmann, Richard, 4,668,556, Cl. 428-122.000.

Brodnax, William E., to Descant, Robert P., a part interest. Portable recliner. 4,660,237, 4-28-87, Cl. 5-74.00R.

Brodowski, Walter: *See—*
Baurmeister, Ulrich; Brodowski, Walter; Diamantoglou, Michael; Dunweg, Gustav; Henne, Werner; Pelger, Michael; and Schulze, Helmut, 4,668,396, Cl. 210-500.290.
Diamantoglou, Michael; Magerlein, Helmut; Brodowski, Walter; Grimm, Wolfgang; and Meyer, Gerhard, 4,708,985, Cl. 525-166.000.

Brodrecht, Gerald L. C.; and Halwa, Rueben. Bale bagging apparatus. 4,686,817, 8-18-87, Cl. 53-567.000.

Brody, George C.; Ma, Francis K.; Nissen, Robert C.; Taylor, Theodore; Patel, Raju; and Ziesman, Craig A., to Northern Telecom Limited; and General Electric Co. Load balancing for cellular radiotelephone system. 4,670,899, 6-2-87, Cl. 379-60.000.

Brodzik, Paul E.; and Lostumo, Arthur J., to Zenith Electronics Corporation. Sweep transformer with terminating PC board. 4,677,538, 6-30-87, Cl. 363-126.000.

Broecker, Franz J.; Duembgen, Gerd; Fouquet, Gerd; Krabetz, Richard; Merger, Franz; and Nees, Friedbert, to BASF Aktiengesellschaft. Preparation of methyl methacrylate from methacrolein. 4,638,085, 1-20-87, Cl. 560-208.000.

Broecker, Franz J., to BASF Aktiengesellschaft. Preparation of catalysts for the detoxification of waste gases. 4,686,202, 8-11-87, Cl. 502-300.000.

Broecker, Franz J.: *See—*
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Broeils, John: *See—*
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Broek, Daniel. Hanging file for blueprints and the like. 4,658,966, 4-21-87, Cl. 211-46.000.

Broekhof, Nicolaas L. J. M.; van der Weerdt, Antonius J. A.; and Hofma, Jogchum, to Naarden International N.V. Perfume compositions and perfumed articles containing dihydro- and/or tetrahydronaphthols as fragrance material. 4,643,844, 2-17-87, Cl. 252-522.00R.

Broekhof, Nicolaas L. J. M.; and van der Weerdt, Antonius J. A., to Naarden International N.V. Perfume composition and perfumed products which contain one or more O-alkoxyphenols as perfume component. 4,650,604, 3-17-87, Cl. 252-522.00R.

Broekhof, Nicolaas L. J. M., to Naarden International N.V. Perfume compositions and perfumed articles and materials which contain derivatives of m-cresol as perfume component. 4,689,175, 8-25-87, Cl. 512-20.000.

Broekhuizen, Willem: *See—*
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Broel, Bonnie R. Dress insert. 4,674,131, 6-23-87, Cl. 2-105.000.

Broemer, Heinz: *See—*
Franek, Henning; Broemer, Heinz; Deutscher, Klaus, deceased; and Schaefer, Roland, 4,714,721, Cl. 523-113.000.

Broen Armatur A/S: *See—*
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Broer, Dirk J.; Zwiers, Renso J. M.; and Jochem, Cornelis M. G., to U.S. Philips Corporation. Transmission projection screen and method of manufacturing same. 4,682,853, 7-28-87, Cl. 350-128.000.

Broermann, Theodor, to R. Broermann, Firma. Drafting paper. 4,666,752, 5-19-87, Cl. 428-43.000.

Broersma, Lester V., to Bell Helmets, Inc. Aerodynamic bicyclist's helmet construction. 4,653,123, 3-31-87, Cl. 2-425.000.

Broersma, Robert, Jr.: *See—*
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Broersz, Gerrit, to Meade, John. Underwater scouring apparatus. 4,682,558, 7-28-87, Cl. 114-222.000.

Broeske, Jeffrey J., to E. R. Wagner Mfg. Company. Pivoted caster wheel and yoke brake having a detent. 4,706,328, 11-17-87, Cl. 16-35.00R.

Brogardh, Torgny; Hok, Bertil; and Ovren, Christer, to ASEA Aktiebolag. Fiber-optic luminescence measuring system for measuring light transmission in an optic sensor. 4,644,154, 2-17-87, Cl. 250-227.000.

Brogardh, Torgny; Hok, Bertil; and Ovren, Christer, to ASEA Aktiebolag. Optical position-measuring sensor. 4,714,835, 12-22-87, Cl. 250-486.100.

Brogdon, J. William: *See—*
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McEachern, J. Albert, Jr.; and Brogdon, J. William, 4,708,602, Cl. 417-407.000.

Brogdon, James W.; Allen, Kenneth D.; Barton, John S.; and Hick Raymond J., to Teledyne Industries, Inc. Accessory drive for turbine engine. 4,640,153, 2-3-87, Cl. 74-789.000.

Broger, Emil A.; and Crameri, Yvo, to Hoffmann-La Roche Inc. Chira rhodium-diphosphine complexes. 4,652,657, 3-24-87, Cl. 548-402.00

Brogli, Werner: *See—*
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Brogren, Eric: *See—*
• Goodacre, John H.; and Brogren, Eric, 4,695,198, Cl. 405-224.00

Broihanne, Georges; and Magnier, Pierre, to U.C.P.I. Societe pour l'Utilisation des Ceramiques et des Platres dans l'Industrie; and Messier Fonderie d'Arudy. Metal casting process using a lost pattern moulds for performing this process and process for the production of said moulds. 4,700,768, 10-20-87, Cl. 164-361.000.

Brois, Stanley J.; and Gutierrez, Antonio, to Exxon Research & Engineering Co. Macrocyclic polyamine and polycyclic polyamine multifunctional lubricating oil additives. 4,637,886, 1-20-87, Cl. 252-51.50A.

Brois, Stanley J.: *See—*
Gutierrez, Antonio; Brois, Stanley J.; Ryer, Jack; and Deen, Harold E., 4,664,826, Cl. 252-482.000.
Gutierrez, Antonio; Brois, Stanley J.; Ryer, Jack; and Deen, Harold E., 4,702,850, Cl. 252-48.200.
Thaler, Warren A.; Brois, Stanley J.; and Ferrara, Francis N., 4,652,600, Cl. 524-547.000.

Broitman, Kalman: *See—*
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Brokaw, Adrian P., to Analog Devices, Incorporated. Matching of resistor sensitivities to process-induced variations in resistor widths. 4,646,056, 2-24-87, Cl. 338-195.000.

Brokaw, Adrian P.; and Maidique, Modesto A., to Analog Devices, Incorporated. A-to-D converter of the successive-approximation type. 4,707,682, 11-17-87, Cl. 340-347.0AD.

Brokaw, Adrian P., to Analog Devices, Inc. Three-state output buffer with anti-saturation control. 4,709,167, 11-24-87, Cl. 307-443.000.

Broken Hill Proprietary Company Limited, The: *See—*
Debenham, Michael; and Farfor, James D., 4,677,757, Cl. 34-4.00
Debenham, Michael, deceased; Carmine, Patrick S., executor; Debenham, Barbara S., executor; Debenham, David, executor; Dalli, Alan G.; and Revill, Peter L., 4,671,720, Cl. 413-58.00
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Seddon, Duncan, 4,695,670, Cl. 585-533.000.
Swinkels, Dominicus A.; Fredericks, Peter M.; and Osborn, Paul R., 4,701,838, Cl. 364-164.000.
White, Noam, 4,645,585, Cl. 208-58.000.

Broker, James D. Portable two-liquid dispenser. 4,703,871, 11-3-87, Cl. 222-144.500.

Brokke, Mervin E.: *See—*
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Brokken, Kyle A.; and Porubcan, Randolph S., to Quali Tech, Inc. Wort-sequestered divalent metal salts. 4,661,358, 4-28-87, Cl. 426-72.000.

Brokoff, Terrance L.: *See—*
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Brolin, Charles A., to FMC Corporation. Induction heating pressure welding with linear bus bar joint. 4,714,808, 12-22-87, Cl. 219-9.50

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Brombacher, Urs; Link, Helmut; and Montavon, Marc, to Hoffmann-La Roche Inc. Schistosomicidal acridanone hydrazones. 4,711,88 12-8-87, Cl. 514-297.000.

Bromberg, Yury: *See—*
Kucher, Alexander; Krasnov, Igor; and Bromberg, Yury, 4,640,384, Cl. 182-51.000.

Brombolich, Lawrence J.: *See—*
Falk, Edward J.; and Brombolich, Lawrence J., 4,664,281, Cl. 220-3.800.

Brome, John G.: *See—*
Taipale, Dale L.; and Brome, John G., 4,682,288, Cl. 364-406.00

Bromine Compounds Ltd.: *See—*
Hermolin, Joshua; and Kampf, Arieh, 4,709,100, Cl. 568-639.000.

Bromirski, Anthony F.: *See—*
Richardson, Ray O.; Bromirski, Anthony F.; and Davis, Lois T., 4,655,794, Cl. 51-293.000.

Bromley, Charles W. A.; and Graystone, Jonathan A., to Imperial Chemical Industries PLC. Coating compositions. 4,673,703, 6-16-8 Cl. 524-504.000.

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Bromster, Leif: *See—*
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Bron, Jose, to Brondool, BV. Lock having an external bolt unlocking device. 4,643,006, 2-17-87, Cl. 70-107.000.

Bronander, Wilhelm B., III: *See—*
Alexander, James; and Bronander, Wilhelm B., III, 4,672,795, Cl. 53-446.000.

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Sleeve insert mounting for mining pick. 4,647,111,
99.79.000.
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678,166, 7-7-87, Cl. 256-13.100.
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ogel, Hans-Henning; and Rath, Hans P., to BASF Aktien-
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h J.; Hebert, Roland C.; and Khoury, Henri A., to Interna-
ness Machines Corporation. Optical inspection system for
ctor wafers. 4,659,220, 4-21-87, Cl. 356-237.000.
Eric C.: *See—*
, Douglas C.; Branscomb, Patricia M.; Broockman, Eric
ckson, LeRoy D.; Koppel, Caralee P.; Ossowski, Richard;
okes, Olen L., Jr., 4,713,785, Cl. 364-569.000.
frey G.: *See—*
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V., to Combustion Engineering, Inc. Ultrasonic method
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4-21-87, Cl. 73-624.000.
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Sheldon; Brook, Sherwin A.; and Freitag, Michael G.,
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Earl B., III, to TRW, Inc. Apparatus and method for
electric power to cable suspended submergible pumps.
7-21-87, Cl. 166-385.000.
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Richard W.; and Brooke, James W., 4,687,660, Cl.
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11-3-87, Cl. 30-155.000.
ginald D.: *See—*
David R. G.; Brooker, Reginald D.; Walker, Roger; and
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,707,162, 11-17-87, Cl. 44-51.000.
Gatehouse Limited: *See—*
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Thomas S.; and Brookes, John W., 4,666,476, Cl.
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element. 4,710,634, 12-1-87, Cl. 250-455.100.
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Ted G.; and Brookey, Robert L., 4,640,351, Cl.
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Engineering Laboratories, Inc.: *See—*
Harold W., 4,678,978, Cl. 318-690.000.
David E. Tool for closing and clearing the tip of caulking
69,635, 6-2-87, Cl. 222-151.000.
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  Markbreiter, Stephen J.; and Dessanti, Daniel J., 4,711,093, Cl. 62-87.000.
  Nimke, Helmut E., 4,657,287, Cl. 285-373.000.
  Schorr, H. Peter; Fontana, Jack J.; and Steinberg, Meyer, 4,689,358, Cl. 523-209.000.
Brooks, Alan: *See—*
  Lester, Michael F.; and Brooks, Alan, 4,651,560, Cl. 73-64.000.
Brooks, Albert E. Circumferential membrane, fluid coupled catheter. 4,711,249, 12-8-87, Cl. 128-748.000.
Brooks, Christopher G.: *See—*
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Brooks, David A., to Orbijet Holdings (Proprietary) Limited. Cleaning of a body of liquid. 4,652,366, 3-24-87, Cl. 210-169.000.
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Brooks, David R.: *See—*
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Brooks, Derek J.; and James, Granville C., to Coal Industry (Patents) Limited. Fluid supply system to rotary cutter heads on mining machines. 4,643,483, 2-17-87, Cl. 299-81.000.
Brooks, Douglas M., to Triactor Holdings Limited. Apparatus for ionizing air. 4,643,744, 2-17-87, Cl. 55-107.000.
Brooks, Edward, to Houton Manufacturing Co., Inc. Axially compact brake. 4,696,378, 9-29-87, Cl. 188-170.000.
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Brooks, Edward F., to TRW Inc. Method for making carbonaceous materials. 4,650,657, 3-17-87, Cl. 423-461.000.
Brooks, Edward F.: *See—*
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Brooks, Forrest E., to ITT Corporation. Method for writing characters on a liquid crystal display. 4,682,163, 7-21-87, Cl. 340-805.000.
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  Canter, Stanley; Warg, Paul A.; and Brooks, Forrest E., 4,668,049, Cl. 350-345.000.
Brooks, Gary T., to Standard Oil Company (Indiana). Injection moldable polyamide-imide-phthalamide copolymers containing polyetherimides. 4,640,944, 2-3-87, Cl. 523-205.000.
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Brooks, John R., to Boeing Company, The. Programmable machine tool control system. 4,641,236, 2-3-87, Cl. 364-171.000.
Brooks, Kenneth, to York Industries, Inc. Furniture round tenon crimper. 4,649,972, 3-17-87, Cl. 144-361.000.
Brooks, Kenneth J.; Wilkinson, Michael A.; Hannam, Peter H.; and Whiteside, Neil A., to Smiths Industries Public Limited Company. Catheters. 4,702,252, 10-27-87, Cl. 128-344.000.
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Brooks, Paul A. Game skinner. 4,656,693, 4-14-87, Cl. 17-44.200.
Brooks, Ralf M.; Connell, Brian P.; Sonnenburg, Dennis T.; and Pagowski, Stefan J., to NCR Canada Ltd - NCR Canada Ltee. Thermal transfer ribbon mechanism and recording method. 4,712,113, 12-8-87, Cl. 346-1.100.
Brooks, Raymond E., Jr., to Hardwood Lighting Designs Corp. Ceiling dome. 4,713,916, 12-22-87, Cl. 52-39.000.
Brooks, Robert A.; Dosch, Robert G.; and Tuttle, Bruce A., to United States of America, Energy. Process for the chemical preparation of high-field ZnO varistors. 4,681,717, 7-21-87, Cl. 264-61.000.
Brooks, Robert E., to TRW Inc. Spatial light modulator systems. 4,712,888, 12-15-87, Cl. 350-486.000.
Brooks, Royce L., to Koerner, Norman D. Athlete carrier. 4,695,072, 9-22-87, Cl. 280-650.000.
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- Brooks, Steve M.; and May, David R., to Thorn EMI Domestic Appliances Limited. Heating apparatus. 4,639,579, 1-27-87, Cl. 219-464.000.
- Brooks, Steve M.; and May, David R., to Thorn EMI Patents Limited. Heating apparatus. 4,707,589, 11-17-87, Cl. 219-464.000.
- Brooks, Thomas W.; Masseth, David A.; Malecka, Joseph R.; Stiver, C. Edward; Pearson, Charles S.; and Fox, James D., to Dayco Products, Inc. Automatic crimper and crimping die. 4,703,643, 11-3-87, Cl. 72-402.000.
- Brooks, Timothy K.: *See—*
  - Genereaux, Eugene P.; Jameson, Samuel M.; and Brooks, Timothy K., 4,696,460, Cl. 269-6.000.
- Brooksbank, Richard N., to Plessey Overseas Limited. Telephone key systems and key stations therefor. 4,654,870, 3-31-87, Cl. 379-156.000.
- Brookshier, William, to United States of America, Energy. Log amplifier with pole-zero compensation. 4,634,986, 1-6-87, Cl. 328-145.000.
- Brookshire, Richard E.: *See—*
  - French, Daniel B.; Brookshire, Richard E.; and Schnelle, Joseph W., 4,685,067, Cl. 364-513.000.
- Brooktree Corporation: *See—*
  - Bixby, James A., 4,658,240, Cl. 340-347.0AD.
  - Colles, Joseph H., 4,638,241, Cl. 323-312.000.
  - Lewyn, Lanny L., 4,665,380, Cl. 340-347.0DA.
- Broom, Walter E.; Henry, Michael; and Schaffer, William J., to International Business Machines Corporation. Optical disk drive apparatus with means for accurate disk positioning. 4,669,076, 5-26-87, Cl. 369-77.100.
- Broome, Barry G.: *See—*
  - Beery, Jack; and Broome, Barry G., 4,639,127, Cl. 355-35.000.
- Broome, Peter F., to Cincinnati Milacron Inc. Method and apparatus for producing numerical control programs. 4,636,938, 1-13-87, Cl. 364-191.000.
- Broome, Thomas M.: *See—*
  - Killough, Ray B.; Higgins, Alan S.; and Broome, Thomas M., 4,658,634, Cl. 73-3.000.
- Broomfield, Donald J.; Briggs, Paul C.; Parker, Eric G.; and Wagner, David P., to Illinois Tool Works Inc. Apparatus for plating and coating. 4,715,316, 12-29-87, Cl. 118-716.000.
- Brophy, James F.: *See—*
  - Guilbault, Lawrence J.; McEntee, Thomas C.; Koob, Judith L.; and Brophy, James F., 4,649,079, Cl. 428-375.000.
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- Brophy, Joseph W.: *See—*
  - Lawrie, William E.; Powers, Thomas, Jr.; and Brophy, Joseph W., 4,702,112, Cl. 73-629.000.
- Brophy, William S., to Marlin Firearms Company. Buttplate with sliding cover for buttstock storage chamber. 4,697,367, 10-6-87, Cl. 42-71.010.
- Broquere, Bernard; and Etienne, Jacques, to Societe Europeenne de Propulsion. Process for manufacturing a turbine or compressor wheel made of composite material and wheel thus obtained. 4,709,457, 12-1-87, Cl. 29-156.80R.
- Brosch, Richard W., to Lymore Limited. Casting mould. 4,715,425, 12-29-87, Cl. 164-418.000.
- Brose Fahrzeugteile GmbH & Co. KG: *See—*
  - Baldamus, Haimo; Szerdahelyi, Ferenc; Hess, Peter; and Bauer, Manfred, 4,648,208, Cl. 49-502.000.
  - Bruse, Kurt; Jurgens, Gerhard; and Becker, Herbert, 4,645,233, Cl. 280-808.000.
  - Volk, Hans-Joachim; Becker, Herbert; and Dallwig, Claus, 4,667,982, Cl. 280-808.000.
- Brose, Tom L., to Cobe Laboratories, Inc. Single needle apparatus. 4,643,714, 2-17-87, Cl. 604-4.000.
- Broselow, James B. Measuring tape for directly determining physical treatment and physiological values. 4,713,888, 12-22-87, Cl. 33-137.00R.
- Brosh, Amnon; and Landmann, Wolf S., to Bitronics, Inc. Sensor amplification and enhancement apparatus using digital techniques. 4,644,570, 2-17-87, Cl. 377-17.000.
- Brosh, Amnon; and Fiori, David, Jr. Planar coil apparatus for providing a frequency output vs. position. 4,658,153, 4-14-87, Cl. 307-106.000.
- Brosh, Nissan: *See—*
  - Boxman, Raymond L.; Goldsmith, Shmuel; Brosh, Nissan; Shalev, Shaul; and Yaloz, Hanan. 4,645,895, Cl. 219-76.130.
- Brosio, Alberto: *See—*
  - Ambrosio, Renato; Brosio, Alberto; Fausone, Alfredo; and Tofanelli, Adler, 4,713,803, Cl. 370-32.100.
- Brosius, James R.; and Brosius, Ralph C., to Research Plus, Inc. Power actuated tool for driving fastener. 4,687,126, 8-18-87, Cl. 227-10.000.
- Brosius, Karl S.; Justus, Scott B.; and Salvatora, David A., to Crucible Materials Corporation. Method and assembly for producing extrusion-clad tubular product. 4,640,815, 2-3-87, Cl. 419-8.000.
- Brosius, Karl S.: *See—*
  - Haswell, Walter T., Jr.; Brosius, Karl S.; Justus, Scott B.; and Salvatora, David A., 4,640,814, Cl. 419-8.000.
- Brosius, Klaus, to J. M. Voith GmbH. Hydrodynamic retarder. 4,715,481, 12-29-87, Cl. 188-291.000.
- Brosius, Ralph C.: *See—*
  - Brosius, James R.; and Brosius, Ralph C., 4,687,126, Cl. 227-10.000.
- Brosnan, Michael: *See—*
  - Murphy, John; McMullin, Francis; Egan, Michael; and Brosnan, Michael, 4,661,756, Cl. 318-701.000.
- Brosnan, Stephen J., to Northrop Corporation. Injection locking a xenon chloride laser at 308.4 nm. 4,689,794, 8-25-87, Cl. 372-18.000.
- Bross, Charles F., to Pennwalt Corporation. Optical detecting system for article counting machine. 4,680,464, 7-14-87, Cl. 250-223.00R.
- Bross, Klaus, to Paul Marienfeld KG. Process for the production of slides with delimited reaction fields, and the slides produced by the process. 4,705,705, 11-10-87, Cl. 428-13.000.
- Bross, Robert M.: *See—*
  - Cook, Kenneth P.; and Bross, Robert M., 4,643,717, Cl. 604-22.000.
- Brosseau, Jacques: *See—*
  - Doyon, Andrea; Matte, Denis; and Brosseau, Jacques, 4,676,038, Cl. 52-282.000.
- Brossi, Arnold, to United States of America, Health and Human Services. Antiinflammatory 2,3-didemethylcolchicine and additional derivatives. 4,692,463, 9-8-87, Cl. 514-463.000.
- Brosten, Goran, to Tetra Pak International AB. Device for cutting a narrow strip of continuous articles for packaging. 4,641,481, 2-10-87, Cl. 53-128.000.
- Brostik, Miroslav: *See—*
  - Brychta, Ondrej; Tlucko, Jozef; Magdolen, Viktor; Brostik, Miroslav; and Klimacek, Dusan, 4,691,700, Cl. 128-200.210.
- Broszukat, Peter, to OBO Bettermann oHG. Stud holder for a stud welder. 4,669,742, 6-2-87, Cl. 279-41.00A.
- Brot, Nathan; and Weissbach, Herbert, to Hoffmann-La Roche Inc. Assay for measuring gene expression. 4,661,443, 4-28-87, Cl. 435-6.000.
- Brother Albert Welsh Foundation: *See—*
  - Kennedy, Michael, 4,691,763, Cl. 165-54.000.
- Brother Industries, Ltd.: *See—*
  - Harano, Tetsuo; and Sakakibara, Kenji, 4,689,692, Cl. 358-283.000.
  - Hattori, Shigenori; Ueno, Hideo; Uchida, Toyohisa; and Kinoshita, Naohisa, 4,665,407, Cl. 346-76.0PH.
  - Imaizumi, Mamoru; Ishikawa, Yujiro; Ohta, Eiichi; Sato, Shizuo; and Matsushita, Kazuyuki, 4,647,765, Cl. 250-227.000.
  - Ishikawa, Yujiro, 4,636,650, Cl. 250-578.000.
  - Ishikawa, Yujiro, 4,642,472, Cl. 250-578.000.
  - Ishikawa, Yujiro, 4,700,061, Cl. 250-227.000.
  - Kojima, Yasumichi, 4,644,477, Cl. 364-523.000.
  - Ohta, Eiichi, 4,647,768, Cl. 250-227.000.
  - Sakaida, Atsuo; Kawaura, Masafumi; Chikaoka, Yasuji; Iwata, Hiroshi; and Asano, Kiyomitsu, 4,634,301, Cl. 400-124.000.
  - Ueno, Hideo; Kuno, Hiroshi; and Hamabe, Yoshifumi, 4,671,683, Cl. 400-61.000.
  - Yasuhiro, Miki, 4,639,880, Cl. 364-519.000.
- Brother Kogyo Kabushiki Kaisha: *See—*
  - Asakura, Hideo, 4,705,416, Cl. 400-144.200.
  - Asakura, Koichi, 4,704,689, Cl. 364-474.000.
  - Asano, Kiyomitsu; and Sakaida, Atsuo, 4,652,158, Cl. 400-124.000.
  - Asano, Masuo, 4,695,777, Cl. 318-135.000.
  - Goto, Hideo; Hosoe, Takeo; and Oda, Toshinori, 4,656,078, Cl. 428-204.000.
  - Goto, Makoto, 4,647,747, Cl. 219-69.00W.
  - Goto, Makoto, 4,667,077, Cl. 219-69.00W.
  - Goto, Makoto, 4,689,462, Cl. 219-69.00W.
  - Goto, Makoto; Okabe, Takao; and Komori, Akihiro, 4,703,144, Cl. 219-69.00P.
  - Harano, Tetsuo; and Ohta, Eiichi, 4,652,743, Cl. 250-227.000.
  - Hirota, Akio, 4,692,071, Cl. 408-9.000.
  - Hori, Masaaki, 4,678,979, Cl. 318-696.000.
  - Horie, Fujio, 4,696,247, Cl. 112-315.000.
  - Igi, Hisashi; Ohta, Eiichi; Bandai, Yasuhito; and Takagi, Kazuhiko, 4,687,352, Cl. 400-73.000.
  - Igi, Hisashi; Yamada, Tomohiro; Higuchi, Tomohisa; Ohta, Eiichi; and Yazawa, Hiroaki, 4,702,630, Cl. 400-82.000.
  - Ishikawa, Shigeki; and Furukawa, Satoshi, 4,689,698, Cl. 360-69.000.
  - Ito, Minoru, 4,662,296, Cl. 112-449.000.
  - Kamiya, Osamu, 4,700,646, Cl. 112-279.000.
  - Katsukawa, Satoshi, 4,653,940, Cl. 400-121.000.
  - Katsukawa, Satoshi, 4,668,114, Cl. 400-279.000.
  - Kawashima, Yoshihiro, 4,663,509, Cl. 219-69.00W.
  - Kojima, Yasumichi; Ueno, Hideo; Hayashi, Yasuhiro; Suzuki, Makoto; and Furukawa, Satoshi, 4,671,684, Cl. 400-63.000.
  - Komiya, Ryohei; and Terazawa, Masaaki, 4,701,768, Cl. 346-74.400.
  - Kurachi, Hisao; Minaminaka, Kazuyoshi; Ito, Takeo; and Yamakawa, Kiyoshi, 4,701,579, Cl. 200-5.00A.
  - Kuzuya, Susumu; and Imaizumi, Mamoru, 4,715,735, Cl. 400-82.000.
  - Miki, Yasuhiro, 4,684,269, Cl. 400-82.000.
  - Mitani, Masahiro, 4,666,322, Cl. 400-639.000.

Miwa, Takahiro; and Hibino, Yoshihiko, 4,644,421, Cl. 360-66.000.

Mori, Isao, 4,661,750, Cl. 318-326.000.

Morita, Toshiki, 4,712,932, Cl. 400-208.100.

Naganuma, Nobuyuki; and Shimizu, Yasuhiro, 4,664,048, Cl. 112-453.000.

Natsume, Yukihito, 4,712,933, Cl. 400-248.000.

Nomura, Etsuzo; Kozawa, Tetsuo; and Sakakibara, Yasuo, 4,676,179, Cl. 112-239.000.

Nomura, Etsuzo; Kozawa, Tetsuo; and Sakakibara, Yasuo, 4,704,978, Cl. 112-275.000.

Nomura, Etuzo; Sakakibara, Yasuo; Kozawa, Tetsuo; Nishida, Yukio; and Kondo, Ikuzo, 4,712,497, Cl. 112-315.000.

Ogaki, Hirokazu; Kato, Yoshibumi; and Furukawa, Satoshi, 4,654,799, Cl. 364-479.000.

Ogaki, Hirokazu, 4,672,554, Cl. 364-479.000.

Ogaki, Hirokazu; Funahashi, Yasuhiro; Koie, Hiroshi; and Kurachi, Tomoko, 4,674,055, Cl. 364-479.000.

Ogaki, Hirokazu; Yasutomo, Yuichi; Kato, Yoshibumi; Kato, Tatsuo; and Suzuki, Takamitsu, 4,677,565, Cl. 364-479.000.

Okamori, Shuhei, 4,661,003, Cl. 400-216.100.

Okamoto, Tsugio; and Hirai, Yoshiharu, 4,647,238, Cl. 400-225.000.

Onoda, Hiroshi; and Mizuno, Kenji, 4,644,367, Cl. 346-33.00R.

Onoda, Hiroshi; and Mizuno, Kenji, 4,682,902, Cl. 400-18.000.

Oshima, Nobuyasu; Sato, Mikio; Kitajima, Katsuhiro; and Nakashima, Akifumi, 4,651,660, Cl. 112-225.000.

Sakai, Kiyoharu, 4,637,742, Cl. 400-121.000.

Sakaida, Atsuo; and Suzuki, Ikuya, 4,653,943, Cl. 400-124.000.

Sakakibara, Kenji; Harano, Tetsuo; Bandai, Yasuhito; and Ohta, Eiichi, 4,684,999, Cl. 358-294.000.

Sakakibara, Kenji; Akao, Michitoshi; Hayashi, Shigeyuki; and Sakai, Jun, 4,714,943, Cl. 355-27.000.

Sato, Yoshitsugu; and Furukawa, Satoshi, 4,698,626, Cl. 340-710.000.

Sawada, Akihiro, 4,642,779, Cl. 364-520.000.

Senda, Yutaka; Sato, Katsuhiko; Kozawa, Tetsuo; Nomura, Etsuzo; and Sakakibara, Yasuo, 4,706,584, Cl. 112-121.110.

Shimada, Masami, 4,714,039, Cl. 112-275.000.

Suzuki, Makoto; and Koie, Hiroshi, 4,651,300, Cl. 364-900.000.

Suzuki, Yoshihumi; Ito, Noritsugu; and Omura, Kazuhiro, 4,676,675, Cl. 400-56.000.

Takagi, Kazuhiko, 4,706,125, Cl. 358-256.000.

Tatematsu, Hiromu; and Miyabayashi, Takeshi, 4,696,861, Cl. 428-328.000.

Tomida, Yasutaka, 4,695,173, Cl. 400-120.000.

Ueno, Hideo; Kuno, Hiroshi; and Hamabe, Yoshifumi, 4,639,151, Cl. 400-63.000.

Ueno, Hideo, 4,684,274, Cl. 400-320.000.

Ueno, Hideo; Hattori, Hiroshi; Maeda, Kumiko; and Yamada, Keiko, 4,695,172, Cl. 400-83.000.

Watanabe, Kikuo; Kobayashi, Mitsuo; Hirose, Noboru; and Sato, Kenichi, 4,679,296, Cl. 29-568.000.

Yamakawa, Kiyoshi; and Yoshimoto, Satoshi, 4,714,361, Cl. 400-144.200.

Yamamoto, Takemi; and Tomida, Yasutaka, 4,639,152, Cl. 400-120.000.

Yamamoto, Takemi; and Miki, Yasuhiro, 4,685,814, Cl. 400-82.000.

Yoshimoto, Satoshi, 4,701,687, Cl. 318-696.000.

Yoshimura, Motokazu; Hirata, Koichi; and Kurebayashi, Kimie, 4,688,192, Cl. 364-900.000.

hers, Bradford. State trivia board game. 4,674,752, 6-23-87, Cl.
3-254.000.

hers, Charles E.; and Kim, Chong Y., to Miles Laboratories, Inc.
ocess to solubilize enzymes and an enzyme liquid product pro-
ced thereby. 4,673,647, 6-16-87, Cl. 435-189.000.

hers, Jack, to United States of America, Air Force. Container latch.
702,504, 10-27-87, Cl. 292-66.000.

hers, Jack A.; Kane, William T.; Brouneus, Harold A.; Layton,
argaret M.; and Walsh, Paul L., to Corning Glass Works. Integrally
ated electrochemical cell method and apparatus. 4,659,435, 4-21-87,
. 204-1.00T.

hers, Lance E., to Halliburton Company. Method of reducing fluid
s in cement compositions containing substantial salt concentra-
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hers, Lance E.: *See*—

Fry, Slaton E.; Childs, Jerry D.; Brothers, Lance E.; and Lindsey, Donald W., 4,676,317, Cl. 166-293.000.

Fry, Slaton E.; Childs, Jerry D.; Brothers, Lance E.; and Lindsey, Donald W., 4,703,801, Cl. 166-293.000.

hers, Robert C.: *See*—

Baitinger, Stacey A.; Brothers, Robert C.; and Dishart, Kenneth T., 4,645,710, Cl. 428-317.700.

herton, Robert J.: *See*—

Hall, Iris H.; and Brotherton, Robert J., 4,672,060, Cl. 514-64.000.

herton, Thomas W., to Economy Forms Corporation. Concrete
rm having adjustable curvature and method for producing same.
679,763, 7-14-87, Cl. 249-189.000.

isky, Eugene; Everson, Charles W.; and Swartz, William E., to
auffer Chemical Company. Increased shelf-life for refrigerated fish.
670,277, 6-2-87, Cl. 426-310.000.

iz, Gregory R. Metallic foamed structure and means for producing
me. 4,666,766, 5-19-87, Cl. 428-304.400.

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uple. 4,676,996, 6-30-87, Cl. 427-113.000.

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Brotz, Gregory R. Apparatus for bulk production of carbon fibers. 4,684,336, 8-4-87, Cl. 425-8.000.

Brotz, Gregory R. Method of producing a continuous length structure. 4,692,286, 9-8-87, Cl. 264-29.100.

Brotz, William C.: *See*—

Verduin, Lee C.; and Brotz, William C., 4,667,802, Cl. 194-217.000.

Brotzmann, Karl; and Mantey, Paul-Gerhard, to Klockner CRA Technologie GmbH. Method for installing a converter bottom. 4,673,167, 6-16-87, Cl. 266-281.000.

Brouessard, Rene, to Societe Anonyme dite: SICOF S.A. Surfacing for the vertical waterproofing or seal of the facades of apartment blocks, industrial buildings and individual houses. 4,668,547, 5-26-87, Cl. 428-40.000.

Brough, William R.; and Borgen, James C., to Weyerhaeuser Company. Feeding and data entry system for lumber trimmer. 4,638,440, 1-20-87, Cl. 364-475.000.

Broughman, John D., Jr.; Calvert, Barry G.; and Hill, Danny B., to Westvaco Corporation. Cannister seal integrity tester. 4,683,745, 8-4-87, Cl. 73-49.200.

Broughton, Barbara J.: *See*—

Al-Shaar, Adnan H.; Broughton, Barbara J.; Chambers, Robert K.; Gilmour, David W.; Kelsey, Diane M.; Lowden, Peter; Lunt, Edward; Lythgoe, David J.; McClenaghan, Ian; McDougall, Duncan C.; Saunders, Libert C.; Stuttle, Keith A. J.; and Warne, Peter J., 4,659,727, Cl. 514-370.000.

Broughton, Christopher D.: *See*—

Dixon, Charles E.; and Broughton, Christopher D., 4,704,582, Cl. 329-50.000.

Broughton, George L.; and Macier, James E., to Outboard Marine Corporation. Marine propulsion engine voltage generator arrangement. 4,695,261, 9-22-87, Cl. 440-900.000.

Broughton, George L.: *See*—

Breckenfeld, Paul W.; Broughton, George L.; Gibbs, Ronald E.; Macier, James E.; and Petersen, H. Norman, 4,669,988, Cl. 440-88.000.

Broughton, Jack: *See*—

Hyde, John A. C.; and Broughton, Jack, 4,660,375, Cl. 60-39.030.

Brouha, Marcel: *See*—

De Wit, Hendrik J.; Brouha, Marcel; Enz, Ulrich E.; Jager, Kornelis; Van Der Borst, Albertus J. C.; and Turk, Gijsbertus W., 4,685,012, Cl. 360-125.000.

Brouneus, Harold A.: *See*—

Brothers, Jack A.; Kane, William T.; Brouneus, Harold A.; Layton, Margaret M.; and Walsh, Paul L., 4,659,435, Cl. 204-1.00T.

Broussard, Edison L. One-piece metal covering for insulated pipe bends. 4,694,547, 9-22-87, Cl. 29-157.00R.

Broussard, Fabio; and Busetto, Carlo, to Enichem Sintesi S.p.A., and Bozzetto Industrie Chimiche S.p.A. Stabilizing compounds for organic polymers, and stabilized polymer compounds which contain them. 4,668,725, 5-26-87, Cl. 524-219.000.

Broussard, Paul D.: *See*—

LeBoeuf, Harry P.; Verret, Allen J.; and Broussard, Paul D., 4,633,953, Cl. 166-358.000.

Broussaud, Georges: *See*—

Lacotte, Jean-Pierre; Kretschmer, Sylvain; Oprandi, Pierre; and Broussaud, Georges, 4,659,407, Cl. 156-196.000.

Broussely, Michel: *See*—

Gabano, Jean-Paul; Broussely, Michel; Pereira-Ramos, Jean-Pierre; Messina, Richard; and Perichon, Jacques, 4,690,877, Cl. 429-194.000.

Broussoux, Dominique; Facoetti, Hugues; and Micheron, Francois, to Thomson-CSF. Piezoelectric polymer transducer and process of manufacturing the same. 4,670,074, 6-2-87, Cl. 156-198.000.

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Broussoux, Dominique: *See*—

Robin, Philippe; Micheron, Francois; Petit, Patrick; and Broussoux, Dominique, 4,649,312, Cl. 310-330.000.

Brouty-Boye, Huguette: *See*—

Vairel, Edmond G.; Brouty-Boye, Huguette; Toulemonde, Francis; and Doutremepuich, Christian, 4,687,765, Cl. 514-56.000.

Brouwer, Geert; and Wadman, Sipke, to U.S. Philips Corporation. Spectrometer. 4,684,251, 8-4-87, Cl. 356-315.000.

Brouwer, Hendrik L.: *See*—

Mensink, Kornelis A.; and Brouwer, Hendrik L., 4,665,919, Cl. 128-419.0PG.

Brouwer, Marius S.; Grosscurt, Arnoldus C.; and van Hes, Roelof, to Duphar International Research B.V. Benzoylurea compounds, and insecticidal and acaricidal compositions comprising same. 4,656,193, 4-7-87, Cl. 514-594.000.

Brouwer, Marius S.; and Grosscurt, Arnoldus C., to Duphar International Research B.V. Benzoylurea compounds, and pesticidal and pharmaceutical compositions comprising same. 4,665,235, 5-12-87, Cl. 564-44.000.

Brouwer, Marius S.; and Grosscurt, Arnoldus C., to Duphar International Research B.V. Insecticidal and acaricidal composition comprising a benzoylurea compound. 4,710,516, 12-1-87, Cl. 514-594.000.

Brouwer, Nicholaas L.; Urbanic, John M.; and Anderson, Albert R., to Aluminum Company of America. Emissivity error correcting method for radiation thermometer. 4,659,234, 4-21-87, Cl. 374-121.000.

Brouwer, Nicholaas L.: *See—*
- Adomaitis, Paul R.; Brouwer, Nicholaas L.; and Hobi, Bernard J., 4,675,730, Cl. 358-106.000.

Brouwer Turf Equipment Limited: *See—*
- Arnold, William T., 4,644,737, Cl. 56-249.000.
- Arnold, William T., 4,680,922, Cl. 56-7.000.

Brouwer, Walter G.; and Blem, Allen R., to Uniroyal Chemical Company, Inc.; and Uniroyal Ltd. Substituted thiazolidinones useful as plant growth regulators. 4,664,694, 5-12-87, Cl. 71-90.000.

Brouwer, Walter G.; Bell, Allyn R.; Blem, Allen R.; and Davis, Robert A., to Uniroyal Chemical Company, Inc.; and Uniroyal Ltd. 3-aryl-5,6-dihydro-1,4,2-oxathiazines and their oxides. 4,675,044, 6-23-87, Cl. 71-73.000.

Brovelli, Jacques C. J., to Philiffe J. H. Berna. Touch operated electronic switch for alternating current. 4,703,194, 10-27-87, Cl. 307-116.000.

Brovman, Yakov Z., to Harris Graphics Corporation. Adaptive control system for press presetting. 4,655,135, 4-7-87, Cl. 101-426.000.

Brovman, Yakov Z.: *See—*
- McKrell, Richard L.; Gelinas, W. Robert; and Brovman, Yakov Z., 4,643,090, Cl. 101-218.000.

Brovman, Yakoy Z., to Harris Graphics Corporation. Press presetting method. 4,656,941, 4-14-87, Cl. 101-426.000.

Browand, Wayne H.: *See—*
- Comroe, Richard A.; Borras, Jaime A.; Browand, Wayne H.; Ramos, Ozzie F.; Kozlowski, Ted A.; Mitchell, Timothy A.; and Ekl, Randy L., 4,667,191, Cl. 340-825.500.

Browder, Lewis B., to Datatape Inc. Magneto-optic transducer with enhanced signal performance. 4,654,837, 3-31-87, Cl. 369-13.000.

Browder, Lewis B., to Datatape, Incorporated. Turnaround tape transport apparatus with compensation for head-to-tape stick-slip action. 4,677,502, 6-30-87, Cl. 360-73.000.

Browen, Rodney: *See—*
- Groves, William A.; Snook, Matthew L.; and Browen, Rodney, 4,642,561, Cl. 324-73.00R.
- Groves, William A.; Snook, Matthew L.; and Browen, Rodney, 4,652,814, Cl. 324-73.00R.

Brower, Arthur B. Self adhesive suture and bandage. 4,646,731, 3-3-87, Cl. 128-156.000.

Brower, Boyd G.; and Shaffer, John W., to GTE Products Corporation. Multilamp photoflash device with improved coating. 4,664,622, 5-12-87, Cl. 431-360.000.

Brower, Boyd G., to GTE Products Corporation. Miniaturized photoflash array fabrication process. 4,676,738, 6-30-87, Cl. 431-359.000.

Brower, Boyd G., to GTE Products Corporation. Side-mounted flashlamps. 4,690,637, 9-1-87, Cl. 431-359.000.

Brower, Charles H.: *See—*
- Wiley, John W.; Brower, Charles H., and Wang, David, 4,675,212, Cl. 427-244.000.

Brown, Alan P. B.; and Reeves, Ian B., to Brown, Alan Paul Blakley. Breaker pad. 4,715,424, 12-29-87, Cl. 164-264.000.

Brown, Alan Paul Blakley: *See—*
- Brown, Alan P. B.; and Reeves, Ian B., 4,715,424, Cl. 164-264.000.

Brown, Alan S.: *See—*
- Mueller, Peter R.; Brown, Alan S.; Tolkoff, Marc J.; and Crawford, Frank B., 4,705,040, Cl. 128-334.00R.

Brown, Alex G., to Avis Industrial Corporation. Latch gear lock assembly. 4,635,454, 1-13-87, Cl. 70-139.000.

Brown, Alexander N. Bicycle pump apparatus. 4,712,592, 12-15-87, Cl. 141-98.000.

Brown, Alfred: *See—*
- Cheung, Yin L.; and Brown, Alfred, 4,688,418, Cl. 73-29.000.
- Huang, Wann-Sheng; Brown, Alfred; and Hoyt, Donald L., 4,653,583, Cl. 166-252.000.

Brown, Alice. Diaper with separable panel for umbilical cord. 4,675,015, 6-23-87, Cl. 604-385.00R.

Brown, Alison, to Litton Systems, Inc. Enhanced global positioning system Delta-Range processing. 4,646,096, 2-24-87, Cl. 342-357.000.

Brown, Alison K.: *See—*
- Mark, John G.; Brown, Alison K.; and Matthews, Anthony, 4,634,283, Cl. 356-350.000.

Brown, Allan P.; and Charlebois, Leonard J., to Northern Telecom Limited. Seals. 4,648,606, 3-10-87, Cl. 277-188.00R.

Brown, Allan P.: *See—*
- Charlebois, Leonard J.; Brown, Allan P.; and Kho, James K., 4,670,980, Cl. 29-869.000.

Brown, Amos W.; and Sleeman, Scott L., to Brown Packaging Inc. Labeling machine. 4,670,087, 6-2-87, Cl. 156-212.000.

Brown, Anthony D., to Grundy Dispense Systems, Inc. Coupler and pump for a beverage dispenser. 4,711,377, 12-8-87, Cl. 222-400.700.

Brown, Arthur E. Reciprocating multicylinder vee machines with secondary counterbalancers. 4,683,849, 8-4-87, Cl. 123-192.00B.

Brown, Arthur E. Balancers for various reciprocating machines using rotating balance weights. 4,712,436, 12-15-87, Cl. 74-44.000.

Brown, Arthur K., Jr., to Allied Corporation. Hydraulic brake booster with quick take-up and full stroke. 4,685,297, 8-11-87, Cl. 60-547.100.

Brown, Arthur K., Jr., to Allied Corporation. Hydraulic brake booster with cam and lever ratio changer. 4,704,867, 11-10-87, Cl. 60-554.000.

Brown, Barry D. Cutting apparatus. 4,635,362, 1-13-87, Cl. 30-124.000.

Brown, Bernard: *See—*
- Rothstein, Leonard; and Brown, Bernard, 4,664,160, Cl. 141-67.000.

Brown, Billy R. Formation fracturing technique using liquid proppant carrier followed by foam. 4,665,982, 5-19-87, Cl. 166-250.000.

Brown, Boveri & Cie AG: *See—*
- Berndes, Gunter; Neidig, Arno; and Mayer, Eckhard, 4,672,415, Cl. 357-38.000.
- Depenbrock, Manfred, 4,678,248, Cl. 318-805.000.
- Dietrich, Manfred; Dustmann, Cord-Heinrich; Schmaderer, Franz; and Wahl, Georg F. H., 4,657,776, Cl. 427-38.000.
- Dustmann, Cord-Henrich; Wahl, Georg; and Schmaderer, Franz, 4,699,800, Cl. 427-62.000.
- Flatz, Josef; Weddigen, Gert; Bohme, Hans-Joachim; Grieser, Fritz; Huber, Robert; and Nienburg, Hans, 4,691,082, Cl. 174-106.0SC.
- Goehle, Rolf; Schmitt, Volker; Bruckner, Werner; and Greefe, Klaus, 4,698,609, Cl. 335-255.000.
- Gotzenbrucker, Oswald; and Popp, Gerhard, 4,680,615, Cl. 357-55.000.
- Hasenauer, Dieter; and Lenz, Franz, 4,656,102, Cl. 429-104.000.
- Hochreuther, Karl, 4,696,189, Cl. 73-431.000.
- Hofmann, Heinz; and Schwarz, Gerhard, 4,677,411, Cl. 336-90.000.
- Jager, Kurt; Rosch, Philipp; Fischl, Rolf; and Wambsganss, Heinrich, 4,670,678, Cl. 310-68.00D.
- Kapfer, Karl; and Schwarz, Gerhad, 4,660,121, Cl. 361-58.000.
- Langpape, Reinhart; Dorrscheidt, Wolfgang; Roze, Jean-Philippe; and Steinleitner, Gunther, 4,683,179, Cl. 429-104.000.
- Muench, Albert; and Schwarz, Gerhard, 4,647,141, Cl. 339-198.0GA.
- Neidig, Arno; Leukel, Bernd; and Hettmann, Hubert, 4,636,580, Cl. 174-52.0PE.
- Neidig, Arno; Leukel, Bernd; and Bergmann, Lutz, 4,639,759, Cl. 357-74.000.
- Neidig, Arno; Akyurek, Altan; and Hettmann, Hubert, 4,670,771, Cl. 357-74.000.
- Nippert, Georg; Hahn, Berthold; and Gobrecht, Jens, 4,710,795, Cl. 357-65.000.
- Petri, Gunther F.; and Ziegenbein, Botho, 4,651,253, Cl. 361-124.000.
- Reiss, Harald; and Ziegenbein, Botho, 4,692,363, Cl. 428-36.000.
- Roze, Philippe; and Steinleitner, Gunther, 4,659,638, Cl. 429-104.000.
- Weddigen, Gerd; Huber, Robert; Schmidt, Birgit; and Schneider, Hartmut, 4,639,496, Cl. 525-506.000.
- Weddigen, Gert; Flatz, Josef; Schmidt, Conrad; Huber, Robert; and Pohsner, Gerhard, 4,670,511, Cl. 525-138.000.
- Weidenauer, Werner; Leukel, Bernd; and Bunk, Klaus, 4,700,879, Cl. 228-123.000.
- Ziegenbein, Botho, 4,652,964, Cl. 361-54.000.

Brown Boveri Reaktor GmbH: *See—*
- Baro, Gunter; Kraus, Werner; and Stindt, Wilfried, 4,683,107, Cl. 376-260.000.
- Day, Bobby L., 4,652,251, Cl. 374-101.000.
- Haller, Hans, 4,707,912, Cl. 29-726.000.
- Scharpenberg, Rainer; and Baro, Gunter, 4,637,912, Cl. 376-245.000.
- Scharpenberg, Rainer, 4,655,993, Cl. 376-252.000.
- Scharpenberg, Rainer, 4,683,104, Cl. 376-251.000.
- Vermaat, Huibrecht P.; Forch, Heiko; and Mehr, Lothar, 4,649,989, Cl. 165-11.200.
- Vermaat, Huibrecht P., 4,673,027, Cl. 165-11.200.

Brown, Boyd: *See—*
- Groenendaal, John C., Jr.; and Brown, Boyd, 4,661,043, Cl. 415-104.000.

Brown, Brian A.; and Goulter, Victor H. Trash basket having integral internally-flush vanes for supporting plastic grocery bags. 4,664,347, 5-12-87, Cl. 248-97.000.

Brown, Bruce J., to United States of America, Navy. Sector scan computer. 4,651,332, 3-17-87, Cl. 377-20.000.

Brown, Byron L. Method and apparatus for cementing an acetabular cup to an acetabulum. 4,711,233, 12-8-87, Cl. 128-92.0VP.

Brown, Byron L. Tool for cutting annular groove. 4,712,951, 12-15-87, Cl. 408-158.000.

Brown, Cal R.; Gallagher, Michael T.; Wozniak, Richard F.; and Williams, Peter C., to Whitey Co. Ball valve and seat assembly. 4,660,591, 4-28-87, Cl. 137-312.000.

Brown, Cal R.; Gallagher, Michael T.; and Williams, Peter C., to Whitey Co. Constant displacement dual position cam stop assembly. 4,714,235, 12-22-87, Cl. 251-288.000.

Brown, Cal R.: *See—*
- Corbin, Susan E.; Brown, Cal R.; Crozier, David W.; and Williams, Peter C., 4,685,488, Cl. 137-328.000.

Brown, Candice H., to Advanced Micro Devices, Inc. Method of making a package utilizing a self-aligning photoexposure process. 4,640,010, 2-3-87, Cl. 29-832.000.

Brown, Carl H.: *See—*
- Benson, David J.; Brown, Carl H.; and Hancock, William R., 4,716,460, Cl. 358-140.000.

Brown, Catherine A.; and Eng, Jean L., to General Foods Inc. Process for making an improved instant filling mix. 4,636,397, 1-13-87, Cl. 426-579.000.

Brown, Charles E., to Medical College of Wisconsin Research Foundation, Inc., The. Assay method for the in vivo quantitative determination of mineral content in bone. 4,635,643, 1-13-87, Cl. 128-653.000.

Brown, Charles G.: *See—*
- Ernstrom, Carl A.; and Brown, Charles G., 4,689,234, Cl. 426-38.000.

Brown, Charles M.: *See—*
- Brown, Harry J.; Forgeng, William D.; and Brown, Charles M., 4,650,722, Cl. 428-614.000.

Brown, Charles S. Dynamic elbow and knee extension brace. 4,665,905, 5-19-87, Cl. 128-80.00C.

Brown, Charles W., and Mann, George Z. Vaneless centrifugal pump. 4,652,207, 3-24-87, Cl. 415-90.000.

Brown, Cheryl: *See*—

Moore, Carl O.; and Brown, Cheryl, 4,704,293, Cl. 426-573.000.

Brown, Chester. Collar for the commutator of an automotive starter. 4,695,755, 9-22-87, Cl. 310-236.000.

Brown, Christopher R.; and Roachsmith, Humphrey, to Westinghouse Brake and Signal Company Limited. Track circuit. 4,641,803, 2-10-87, Cl. 246-34.0CT.

Brown, Christopher W.: *See*—

Chipman, Russell A.; Obremski, Robert J.; and Brown, Christopher W., 4,660,151, Cl. 364-498.000.

Brown, Claude M.: *See*—

Mitchell, Thomas A.; Bennett, John E.; Brown, Claude M.; and Pohto, Gerald R., 4,708,888, Cl. 427-126.100.

Brown, Craig C., to Surgikos, Inc. Antimicrobial dressing or drape material. 4,643,181, 2-17-87, Cl. 128-156.000.

Brown, Craig J.; and Dejak, Michael J., to Eco-Tec Limited. Process for removal of copper from solutions of chelating agent and copper. 4,666,683, 5-19-87, Cl. 423-24.000.

Brown, Craig J., to Eco-Tec Limited. Fluid treatment process and apparatus. 4,673,507, 6-16-87, Cl. 210-681.000.

Brown, Craig R., to Dembecki, Stanley L. High performance distributorless digital ignition system for internal combustion engines. 4,686,953, 8-18-87, Cl. 123-606.000.

Brown, Craig R., to Dembecki, Stanley L. High performance digital ignition system for internal combustion engines. 4,686,954, 8-18-87, Cl. 123-607.000.

Brown, Dale M.; Kim, Manjin J.; Baertsch, Richard D.; and Vogelsong, Thomas L., to General Electric Company. Refractory metal capacitor structures, particularly for analog integrated circuit devices. 4,638,400, 1-20-87, Cl. 361-304.000.

Brown, Dale M., to General Electric Company. Self-aligned inlay transistor with or without source and drain self-aligned metallization extensions. 4,677,736, 7-7-87, Cl. 29-571.000.

Brown, Daniel G. Data base accessing system. 4,700,378, 10-13-87, Cl. 379-96.000.

Brown, Daniel P., to Insta-Foam Products, Inc. Low cost mixing and dispensing gun for reactive chemical products. 4,676,437, 6-30-87, Cl. 239-414.000.

Brown, David; Dowell, Robert I.; Hargreaves, Rodney B.; and Main, Brian G., to Imperial Chemical Industries PLC. Heterocyclic compounds having cardiotonic use. 4,683,232, 7-28-87, Cl. 514-228.000.

Brown, David; Hargreaves, Rodney B.; McLoughlin, Bernard J.; and Mills, Stuart D., to Imperial Chemical Industries PLC. 5-phenyl-3H,6H-1,3,4-oxadiazine-2-ones in treatment of heart failure and hypertension. 4,694,005, 9-15-87, Cl. 514-234.000.

Brown, David A.: *See*—

Harrison, Joel N.; Daniels, Donald V.; and Brown, David A., 4,660,106, Cl. 360-77.000.

Brown, David B., deceased (by Brown, Elaine L., executor); Khokhar, Abdul R.; Hacker, Miles P.; and McCormack, John J., to Research Corporation. Diaminocyclohexane platinum complexes. 4,661,516, 4-28-87, Cl. 514-492.000.

Brown, David C., to Cordis Corporation. Differential thermal expansion driven pump. 4,636,149, 1-13-87, Cl. 417-322.000.

Brown, David F.; and Anstey, Michael J. Semiconductor chip carrier. 4,638,348, 1-20-87, Cl. 357-74.000.

Brown, David J., to Massey-Ferguson Services N.V. Transmission direction selection system. 4,680,983, 7-21-87, Cl. 74-474.000.

Brown, David L.; and McLaurin, Leroy D., to Westinghouse Electric Corp. Cooled combustion turbine blade with retrofit blade seal. 4,648,799, 3-10-87, Cl. 416-95.000.

Brown, David M. Collapsible sawhorse. 4,681,187, 7-21-87, Cl. 182-129.000.

Brown, David M.: *See*—

Kalb, Gerald F.; and Brown, David M., 4,679,669, Cl. 188-375.000.

Brown, David O.: *See*—

Moore, Rogers A.; O'Brien, Joseph R.; and Brown, David O., 4,656,313, Cl. 174-35.00R.

Pappano, Thomas W.; and Brown, David O., 4,639,719, Cl. 340-652.000.

Brown, David R.; Frost, Charles E., Jr.; and White, Kenneth A., to GTE Products Corporation. Quartz glass crucibles. 4,713,104, 12-15-87, Cl. 65-18.100.

Brown, David S.; Forry, John S.; Mentzer, Nancy E.; and Missellhorn, Donald J., to Armstrong World Industries, Inc. Method for the preparation of a molded tile product. 4,676,937, 6-30-87, Cl. 264-42.000.

Brown, Dennis N., to Northwest Podiatric Laboratories, Inc. Reinforced heel orthotic insert. 4,654,984, 4-7-87, Cl. 36-44.000.

Brown, Dennis N., to Northwest Podiatric Laboratories, Inc. Orthotic insert for high heeled shoes. 4,688,338, 8-25-87, Cl. 36-44.000.

Brown, Donald L.; Weissert, James T.; Bhakuni, Roop S.; and Rogowski, Gregory S., to Goodyear Tire & Rubber Company, The. Process for manufacturing a high strength woven fabric from optimally drawn yarn. 4,654,253, 3-31-87, Cl. 428-229.000.

Brown, Donald W.; Leth, James W.; and Vandendorpe, James E., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Fault recovery in a distributed processing system. 4,710,926, 12-1-87, Cl. 371-9.000.

Brown, Donnamae J. Photographic disc viewer. 4,685,231, 8-11-87, Cl. 40-366.000.

Brown, Douglas P.; Peck, Donald R.; and Burrough, Donald L., to Deere & Company. Rotary incorporator and spider wheel therefor. 4,646,850, 3-3-87, Cl. 172-551.000.

Brown, Douglas S.: *See*—

Smith, Gaylord D.; Brown, Douglas S.; Bernstein, Philip; and Weller, John E., 4,673,754, Cl. 556-137.000.

Brown, Dwight C. Inflatable beverage insulator. 4,705,085, 11-10-87, Cl. 220-400.000.

Brown, Edgar E.; and Hatala, Robert W., to United Technologies Corporation. Pre-HIP heat treatment of superalloy castings. 4,662,951, 5-5-87, Cl. 148-13.000.

Brown, Edward M.: *See*—

Chamberlin, Edward B.; Brown, Edward M.; and Towns, Edward J., 4,697,993, Cl. 417-514.000.

Proctor, John D.; Towns, Edward J.; and Brown, Edward M., 4,694,968, Cl. 215-224.000.

Towns, Edward J.; Brown, Edward M.; and Lester, William M., 4,673,096, Cl. 215-230.000.

Towns, Edward J.; Brown, Edward M.; and Lester, William M., 4,674,642, Cl. 215-230.000.

Towns, Edward J.; and Brown, Edward M., 4,685,580, Cl. 215-260.000.

Towns, Edward J.; and Brown, Edward M., 4,697,714, Cl. 215-252.000.

Brown, Edward R.: *See*—

Ratchford, Michael; Versailles, Richard E.; and Brown, Edward R., 4,646,241, Cl. 364-424.000.

Brown, Elaine L., executor: *See*—

Brown, David B., deceased; Khokhar, Abdul R.; Hacker, Miles P.; and McCormack, John J., 4,661,516, Cl. 514-492.000.

Brown, Elizabeth A. Adjustable dog feeding tray means. 4,658,759, 4-21-87, Cl. 119-61.000.

Brown, Eric W.; and Tai, Henry T., to I-Flow Corporation. Infusion pump. 4,666,430, 5-19-87, Cl. 604-141.000.

Brown, Eric W., to I-Flow Corporation. Multiple needle holder and subcutaneous multiple channel infusion port. 4,695,273, 9-22-87, Cl. 604-173.000.

Brown, Eric W.; and Tai, Henry T., to I-Flow Corporation. Multilumen catheter set. 4,701,159, 10-20-87, Cl. 604-43.000.

Brown, Eric W.: *See*—

Tai, Henry T.; and Brown, Eric W., 4,687,475, Cl. 604-248.000.

Brown, Francis J., to Deniston Company. Strobe adaptor for automotive timing light. 4,692,668, 9-8-87, Cl. 315-241.00S.

Brown, Frank C.: *See*—

Brahm, Leroy D.; Brown, Frank C.; Ciarlone, David F.; Dedrich, Mark R.; Hassall, James B.; and Salva, Fedor M., 4,699,752, Cl. 376-260.000.

Brown, Frank E. Fishing lure rigging system. 4,642,933, 2-17-87, Cl. 43-42.360.

Brown, Frank E.: *See*—

Beck, Robert E.; Brown, Frank E.; and Jobe, Michael J., 4,657,534, Cl. 604-90.000.

Brown, Frank J.: *See*—

Miller, Ralph A.; and Brown, Frank J., 4,655,415, Cl. 244-105.000.

Brown, Frank P., to Kleen-Piks Inc. Interdental stimulator. 4,660,583, 4-28-87, Cl. 132-89.000.

Brown, Franklin C. Ladder caddy. 4,702,446, 10-27-87, Cl. 248-210.000.

Brown, Fred A., to Comair Rotron, Inc. Electronically programmable universal brushless DC fan with integral tracking and locked rotor protection. 4,656,553, 4-7-87, Cl. 361-31.000.

Brown, Frederick W.: *See*—

Davis, Cecil J.; Spencer, John E.; Hockersmith, Dan T.; Hildenbrand, Randall C.; Brown, Frederick W.; and Kohan, Stanford P., 4,657,629, Cl. 156-345.000.

Davis, Cecil J.; Spencer, John E.; Johnson, Randall E.; Jucha, Rhett B.; Brown, Frederick W.; and Kohan, Stanford P., 4,659,413, Cl. 156-345.000.

Provence, John D.; Brown, Frederick W.; and Jones, John I., 4,695,700, Cl. 219-121.0PD.

Brown, G. Emerson, to Allied Corporation. Anti-locking modulating valve for displacement type full power master cylinder. 4,637,662, 1-20-87, Cl. 303-6.00R.

Brown, Garrett W. Suspension system for supporting and conveying equipment, such as a camera. 4,710,819, 12-1-87, Cl. 358-229.000.

Brown, Geoffrey J.; Griggs, John C.; and Hall, John, to National Research Development Corporation. Flushing cisterns. 4,646,369, 3-3-87, Cl. 4-365.000.

Brown, George E., to Allied Corporation. Piston vacuum pump. 4,679,994, 7-14-87, Cl. 417-525.000.

Brown, George M.: *See*—

Stewart, John; and Brown, George M., 4,697,671, Cl. 188-72.900.

Brown, George T., Jr., to American Thermometer Co., Inc. Device for detecting, measuring, and recording body thermal emissivity. 4,691,712, 9-8-87, Cl. 125-736.000.

Brown, George W., to Mark Controls Corporation. Gate valve. 4,706,934, 11-17-87, Cl. 251-87.000.

Brown, Gregory C.; and Gravel, James L., to Rosemount Inc. High sensitivity magnetic actuator. 4,638,830, 1-27-87, Cl. 137-83.000.

Brown, Gregory C., to Rosemount Inc. Pneumatic amplifier with negative feedback for current to pressure transducer. 4,653,523, 3-31-87, Cl. 137-85.000.

Brown, Gregory C.; and Cucci, Gerald R., to Rosemount Inc. Frequency feedback on a current loop of a current-to-pressure converter. 4,665,938, 5-19-87, Cl. 137-85.000.

Brown, Gregory D.; Clark, Darrel E.; and Schuermann, Rodger W., to Technical Oil Tools Corporation. Drilling fluid density measurement system. 4,694,692, 9-22-87, Cl. 73-155.000.

Brown, Gregory D., to Technical Oil Tools Corporation. Drilling mud density probe. 4,708,018, 11-24-87, Cl. 73-439.000.

Brown, Harold E.; Mozsgai, Steven I.; and Chen, Jason C., to Trilogy Computer Development Partners, Ltd. WSI tester. 4,658,400, 4-14-87, Cl. 371-25.000.

Brown, Harold O. Squirrel guard. 4,637,164, 1-20-87, Cl. 47-24.000.

Brown, Harry B., to Applied Electro Mechanics, Inc. Nickel-cadmium battery state-of-charge measuring method. 4,644,245, 2-17-87, Cl. 320-13.000.

Brown, Harry J.; Forgeng, William D.; and Brown, Charles M., to Union Carbide Corporation. Hard faced article. 4,650,722, 3-17-87, Cl. 428-614.000.

Brown, Herbert C., to Aldrich-Boranes, Inc. Production of optically pure organoboranes. 4,713,380, 12-15-87, Cl. 568-1.000.

Brown, Hugh M., to Du Pont de Nemours, E. I., and Company. Herbicidal iodopyrimidines. 4,659,361, 4-21-87, Cl. 71-90.000.

Brown, Ian A. Knotless fishline connector. 4,633,609, 1-6-87, Cl. 43-43.100.

Brown, Ian A.; McMahon, Dennis R.; Rosas, Robin R.; Scopatz, Stephen D.; and Wind, Karen L., to Pennwalt Corporation. Apparatus for sizing and sorting articles. 4,687,107, 8-18-87, Cl. 209-556.000.

Brown, Ian C.; Hedge, Roger W.; and Molyneux, David J., to British-American Tobacco Company Limited. Expansion of tobacco. 4,696,313, 9-29-87, Cl. 131-291.000.

Brown, Ian C.; Hedge, Roger W.; and Molyneux, David J., to British-American Tobacco Company Limited. Expansion of tobacco. 4,697,604, 10-6-87, Cl. 131-296.000.

Brown, Ian C.: *See—*
Hedge, Roger W.; and Brown, Ian C., 4,641,665, Cl. 131-296.000.

Brown, Ian G., to Xerox Corporation. Duplex copier. 4,673,279, 6-16-87, Cl. 355-3.0SH.

Brown, Ian G.; and Galvin, James. Ion beam generating apparatus. 4,714,860, 12-22-87, Cl. 315-111.810.

Brown International Corporation: *See—*
Rohm, Robert F.; and Bushman, Ronald C., 4,705,055, Cl. 134-57.00R.
Waters, Roger D.; Cox, John E.; and Swofford, Rodney W., 4,665,816, Cl. 100-38.000.

Brown, Jackson E.: *See—*
Bellis, Kenneth E.; Brown, Jackson E.; and Nagarwalla, Pheroze J., 4,714,100, Cl. 164-18.000.

Brown, James E. Positive action gate clip. 4,654,937, 4-7-87, Cl. 24-523.000.

Brown, James E., Jr.: *See—*
Muller, Gary R.; Theiss, Scott M.; Brown, James E., Jr.; and Lawson, Bobby R., 4,715,324, Cl. 122-381.000.

Brown, James F. Capillary flow control. 4,676,274, 6-30-87, Cl. 137-806.000.

Brown, James M. Truck loading apparatus. 4,690,609, 9-1-87, Cl. 414-543.000.

Brown, James M.: *See—*
Black, Robert H.; Wilson, John M.; and Brown, James M., 4,670,165, Cl. 252-8.551.

Brown, James P.; May, Ronald N.; and Randall, David, to Imperial Chemical Industries plc. Polyether polyols, their manufacture and use in polyurethanes production. 4,703,069, 10-27-87, Cl. 521-174.000.

Brown, James R.; Lane, Gary S.; and Larson, Wallace H., to Western Gear Corporation. Airborne stores arming trigger unit and method of preventing undesired arming. 4,682,530, 7-28-87, Cl. 89-1.550.

Brown, James W.; Chen, Tsang J.; and Schen, Michael A., to Eastman Kodak Company. Latex compositions comprising loadable polymeric particles. 4,684,608, 8-4-87, Cl. 430-629.000.

Brown, Jeffery H.; and Phillips, Roger, to Teleplex Corporation. Coherent data word transfer by an asynchronous gateway data port. 4,644,569, 2-17-87, Cl. 375-118.000.

Brown, Jerry W. Removable water guard for sliding patio doors. 4,692,961, 9-15-87, Cl. 16-95.00R.

Brown, Jimmy L.: *See—*
Biggs, Bradley M.; Brown, Jimmy L.; and Kerns, Thomas M., 4,633,779, Cl. 102-215.000.

Brown, John; Garron, Stephen A.; and Wurst, John W., to SSMC Inc. Machine stitched buttonhole and method of producing same. 4,712,496, 12-15-87, Cl. 112-264.100.

Brown, John A. Basket for plants. 4,635,394, 1-13-87, Cl. 47-67.000.

Brown, John D.; Gladdish, Peter; and McCormick, Michael A., to Rolls-Royce plc. Digital noise generator. 4,673,871, 6-16-87, Cl. 324-76.00R.

Brown, John E. Non-toxic shot. 4,714,023, 12-22-87, Cl. 102-516.000.

Brown, John G. Coverings providing impact sound isolation. 4,681,786, 7-21-87, Cl. 428-44.000.

Brown, John G. Modular-accessible-tiles providing accessibility to conductors and piping with improved sound isolation. 4,698,249, 10-6-87, Cl. 428-44.000.

Brown, John W., to Qantix Corporation. Anti-glare filter. 4,697,881, 10-6-87, Cl. 350-276.00R.

Brown Jordan Company: *See—*
Stewart, Alva N., 4,712,166, Cl. 362-147.000.

Brown, Joseph. Garment construction. 4,669,130, 6-2-87, Cl. 2-227.000.

Brown, Karl L.: *See—*
McIntyre, Raymond D.; and Brown, Karl L., 4,687,936, Cl. 250-397.000.

Brown, Katie L. Protective shield for outer garments. 4,651,347, 3-24-87, Cl. 2-60.000.

Brown, Keith E., to Kinetico, Inc. Water treatment apparatus. 4,693,814, 9-15-87, Cl. 210-88.000.

Brown, Kenton J. Double-drum wood chipper apparatus. 4,706,721, 11-17-87, Cl. 144-174.000.

Brown, Kevin D.: *See—*
Brown, Larry D.; and Brown, Kevin D., 4,711,482, Cl. 294-19.100.

Brown, Larry D.; and Brown, Kevin D., to N/C Industries. Reaching aid for the handicapped. 4,711,482, 12-8-87, Cl. 294-19.100.

Brown, Lawrence B.: *See—*
Merry, J. Bradford; and Brown, Lawrence B., 4,700,045, Cl. 219-121.0LU.

Brown, Lawrence H., to L. H. Brown, Inc. Jaw locking means for chucks. 4,696,482, 9-29-87, Cl. 279-1.0SJ.

Brown, Leland T.; and Bynum, Byron G., to Motorola Inc. Overvoltage protection circuit. 4,661,878, 4-28-87, Cl. 361-56.000.

Brown, Leslie F., to Instro Precision Ltd. Locking mechanism. 4,636,103, 1-13-87, Cl. 403-92.000.

Brown, Lewis R. Replicator for cultures of microorganisms. 4,659,671, 4-21-87, Cl. 435-293.000.

Brown, Lynn H.: *See—*
Plesinger, Boris; and Brown, Lynn H., 4,665,822, Cl. 101-123.000.

Brown, Mark D. Method for treating intervertebral disc displacement with enzymes. 4,696,816, 9-29-87, Cl. 424-94.000.

Brown, Mark E.: *See—*
Schneider, John M.; Piatt, Michael J.; Brown, Mark E.; and Bowers, Mark C., 4,638,325, Cl. 346-1.100.

Brown, Mark J., to Motorola, Inc. Signal attenuation circuit. 4,646,036, 2-24-87, Cl. 333-81.00R.

Brown, Mark W.; Dubke, Robert E.; and Kimmel, Milton J., to International Business Machines Corporation. Hardware generation of styled vectors in a graphics system. 4,677,573, 6-30-87, Cl. 364-521.000.

Brown, Mark W.; and Dubke, Robert E., to International Business Machines Corporation. Displays having different resolutions for alphanumeric and graphics data. 4,684,936, 8-4-87, Cl. 340-721.000.

Brown, Max A. Agricultural chemical applicator. 4,677,921, 7-7-87, Cl. 111-6.000.

Brown, Melvin H., to Aluminum Company of America. Method and lift pump for raising liquids. 4,647,272, 3-3-87, Cl. 417-109.000.

Brown, Melvin H., to Aluminum Company of America. Method and lift pump and raising liquids. 4,666,377, 5-19-87, Cl. 417-53.000.

Brown, Melvin H., to Aluminum Company of America. Corrosion-resistant support apparatus and method of use for inert electrodes. 4,678,548, 7-7-87, Cl. 204-67.000.

Brown, Melvin H., to Aluminum Company of America. Planar heat exchange insert and method. 4,685,514, 8-11-87, Cl. 165-177.000.

Brown, Melvin H., to Aluminum Company of America. Cyclone separator. 4,702,181, 10-27-87, Cl. 110-264.000.

Brown, Melvin H., to Aluminum Company of America. Thin rod packing for heat exchangers. 4,702,312, 10-27-87, Cl. 165-179.000.

Brown, Melvin H.: *See—*
Hornack, Thomas R.; and Brown, Melvin H., 4,705,106, Cl. 165-179.000.

Brown, Michael; Martin, Sharon P.; Seaton, Andrew; Snowsill, Phillip J.; Thomas, Mark S.; and Williams, Hywel, to Rolls-Royce plc. Rotor tip clearance control devices. 4,657,479, 4-14-87, Cl. 415-138.000.

Brown, Michael A., to Pitney Bowes Inc. Stamp dispenser. 4,653,008, 3-24-87, Cl. 364-479.000.

Brown, Michael C.; and Kirchanski, Stefan J., to Ortho Diagnostic Systems Inc. Flow cytometry lysing reagent with leukoprotective agent for producing a 3-part WBC count. 4,637,986, 1-20-87, Cl. 436-10.000.

Brown, Neil; Kudermann, Gerhard; and Fuchs, Manfred, to Vereinigte Aluminium-Werke Aktiengesellschaft. Method for removing organic substances from caustic aluminate liquors. 4,668,486, 5-26-87, Cl. 423-130.000.

Brown, Neil L., to EG&G Ocean Products, Inc. Analyzer for comparative measurements of bulk conductivity. 4,652,830, 3-24-87, Cl. 324-439.000.

Brown, Neil L., to Sundstrand Corporation. Power transmission disconnect device with an operational interlock. 4,684,000, 8-4-87, Cl. 192-67.00R.

Brown, Neil L.: *See—*
Guillaume, Jacques; Clemence, Francois; and Brown, Neil L., 4,650,811, Cl. 514-415.000.

Brown, Neuberne H., Jr.: *See—*
Parsons, Frederick L., 4,650,442, Cl. 474-29.000.

Brown, Norman H.: *See—*
Black, Robert J.; Brown, Norman H.; and Paradise, Alfred J., 4,654,250, Cl. 428-195.000.

Brown, Omar L., to Dayton Reliable Tool & Mfg. Co. Two-out belt system. 4,640,116, 2-3-87, Cl. 72-352.000.

Brown, Omar L.: *See—*
Bachmann, Henry C.; Brown, Omar L.; Fraze, Ermal C.; Wynn, David K.; and Gregg, James R., 4,637,961, Cl. 428-579.000.
Bachmann, Henry C.; Brown, Omar L.; Fraze, Ermal C.; Wynn, David K.; and Gregg, James R., 4,704,887, Cl. 72-347.000.

Brown, Orville E., to Borden, Inc. Labeling adhesives. 4,675,351, 6-23-87, Cl. 524-20.000.

Brown, Oswald. Bivalve mollusk shucker. 4,691,412, 9-8-87, Cl. 17-74.000.

Brown Packaging Inc.: *See—*
Brown, Amos W.; and Sleeman, Scott L., 4,670,087, Cl. 156-212.000.

Brown, Paul A. Record album display and support system. 4,673,152, 6-16-87, Cl. 248-216.100.

Brown, Paul S., Jr.: *See—*
Hollenbeak, Keith H.; and Brown, Paul S., Jr., 4,693,639, Cl. 405-263.000.

rown, Paul W.: *See*—

Grimes, John W., II; Jennings, Hamlin; and Brown, Paul W., 4,705,949, Cl. 250-440.100.

rown, Philip S.: *See*—

Castner, Raymond P.; Olechovsky, David F.; Brown, Philip S.; Sinha, Susanta; Keller, Harold T.; and Cheng, Wenche W., 4,649,493, Cl. 364-472.000.

Sinha, Susanta; Brown, Philip S.; Harman, Douglas G.; Keller, Harold T.; Olechovsky, David F.; and Cheng, Wenche W., 4,649,492, Cl. 364-472.000.

rown, Ralph A.; and Piele, Gerald H., to Sperry Corporation. Radar reflector and scanner with electromagnetic programmable drive. 4,656,484, 4-7-87, Cl. 343-761.000.

rown, Raymond A.: *See*—

Langer, Joseph; Brown, Raymond A.; and Hinnefeld, Jon D., 4,671,585, Cl. 439-117.000.

rown, Raymond C., to Superior Industries International, Inc. Automotive vehicle wheel with non-supporting spokes. 4,693,520, 9-15-87, Cl. 301-37.0SS.

rown, Raymond L.: *See*—

Vitriol, William A.; and Brown, Raymond L., 4,645,552, Cl. 156-89.000.

rown, Reed S.; Consoli, John J.; and Klier, Richard G., to American Telephone and Telegraph Company, AT&T Information Systems Inc. Telephone handset construction. 4,712,236, 12-8-87, Cl. 379-433.000.

rown, Richard: *See*—

White, Lawrence K., and Brown, Richard, 4,702,993, Cl. 430-296.000.

own, Richard A.: *See*—

Taylor, Edward C.; Katz, Alan H.; Bull, Randy A.; Byers, Lance R.; and Brown, Richard A., 4,695,658, Cl. 568-763.000.

rown, Richard E.; St. Georgiev, Vassil; Kropp, Philip; and Loev, Bernard, to USV Pharmaceutical Corporation. Triazoloquinoxalin-1,4-diones. 4,668,678, 5-26-87, Cl. 514-250.000.

rown, Richard E.: *See*—

Musser, John H.; and Brown, Richard E., 4,656,281, Cl. 546-82.000.

Musser, John H.; and Brown, Richard E., 4,698,346, Cl. 514-293.000.

rown, Richard F.: *See*—

Edelstein, Fred; and Brown, Richard F., 4,687,048, Cl. 165-1.000.

rown, Richard I.: *See*—

Kruger, Robert J.; and Brown, Richard I., 4,680,025, Cl. 604-6.000.

rown, Richard K.: *See*—

Bohrer, Timothy H.; Pawlowski, Thomas D.; and Brown, Richard K., 4,678,882, Cl. 219-10.55E.

rown, Richard W.; and Ardolf, Duane R., to Aquatrol Corporation. Low-powered remote sensor and telephone line transmitter. 4,691,344, 9-1-87, Cl. 379-106.000.

rown, Richard W.; and Gless, Richard D., Jr., to Stauffer Chemical Company. Method for the preparation of benzyloxyphenoxy pentanoates. 4,713,471, 12-15-87, Cl. 560-53.000.

rown, Robert D., Jr.: *See*—

Riley, William D.; and Brown, Robert D., Jr., 4,692,875, Cl. 364-497.000.

rown, Robert J. S., to Chevron Research Company. Computer-linked nuclear magnetic logging tool and method having a series of sham polarizing cycles for rapidly dispersing components of residual polarization associated with a prior-in-time NML collection cycle. 4,646,016, 2-24-87, Cl. 324-303.000.

rown, Robert J. S., to Chevron Research Company. Computer-linked nuclear magnetic logging tool and method for rapidly dispersing components of residual polarization associated with a prior-in-time collection cycle as well as reduce tuning errors during ring down. 4,646,017, 2-24-87, Cl. 324-303.000.

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Brown, Robert K. Joint maker. 4,712,942, 12-15-87, Cl. 403-174.000.

Brown, Robert L. Unitary pants holder. 4,641,756, 2-10-87, Cl. 211-89.000.

Brown, Robert L.; and Aylies, Sargeant E., to GenCorp Inc. Tape applying apparatus. 4,648,935, 3-10-87, Cl. 156-577.000.

Brown, Robert L. Loom reed servicing apparatus and method. 4,653,543, 3-31-87, Cl. 139-1.00C.

Brown, Robert L., to Brown, Robert L. Course length measurement. 4,662,209, 5-5-87, Cl. 73-1.00D.

Brown, Robert L.; and Stewart, Elizabeth C. Skin cleanser capable of softening and removing smegma. 4,692,262, 9-8-87, Cl. 252-106.000.

Brown, Robert L.: *See*—

Davin, Donald R.; and Brown, Robert L., 4,708,519, Cl. 404-101.000.

Thomas, Michael E.; and Brown, Robert L., 4,670,091, Cl. 156-643.000.

Brown, Robert R., to Colt Industries Inc. Vehicular air intake scoop. 4,681,178, 7-21-87, Cl. 180-68.300.

Brown, Robert R. Vehicle having a dual drive wheel assembly and traction device. 4,697,628, 10-6-87, Cl. 152-213.00R.

Brown, Robert W.: *See*—

Fuzesi, Stephen; and Brown, Robert W., 4,699,931, Cl. 521-117.000.

Miller, Robert E.; and Brown, Robert W., 4,675,706, Cl. 503-210.000.

Brown, Ronald D. Hay tote vehicle. 4,674,933, 6-23-87, Cl. 414-24.600.

Brown, Ronald E., to Phillips Petroleum Company. Polymerization of olefinic hydrocarbons and complex-initiator therefor. 4,713,424, 12-15-87, Cl. 585-424.000.

Brown, Ronald L.: *See*—

Fenner, Gordon H.; and Brown, Ronald L., 4,643,087, Cl. 100-35.000.

Brown & Root, Inc.: *See*—

Hazlegrove, Billy M.; and Roberts, Richard A., 4,710,059, Cl. 405-162.000.

Brown, Royce L.: *See*—

Waltemyer, Ronald G.; and Brown, Royce L., 4,682,467, Cl. 59-30.000.

Brown, Russell A.: *See*—

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Brown, Russell W., to Siltronics, Ltd. Audio amplifier output stage. 4,647,866, 3-3-87, Cl. 330-262.000.

Brown, Scott W.: *See*—

Timmer, George R.; and Brown, Scott W., 4,653,632, Cl. 198-803.010.

Brown, Sterling B.; and McFay, Dennis J., to General Electric Company. Blends of polyphenylene ethers with phosphorus-containing polymers. 4,680,329, 7-14-87, Cl. 524-143.000.

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Baker, Robin C.; Brown, Steven E.; Lothrop, John R.; Lozyniak, Roman; Miller, Paul E.; Olsen, Robert H.; Parker, Charles H.; and Swoll, Eva C., 4,680,786, Cl. 379-60.000.

Brown, Stewart L.; and Cartin, Andrew J., to Decibel Products, Inc. Temperature compensated circulator. 4,675,621, 6-23-87, Cl. 333-1.100.

Brown, Thomas E., to Wang Laboratories, Inc. Method of coupling identification tabs to microfiche for use in microfiche storage and retrieval devices. 4,677,475, 6-30-87, Cl. 358-102.000.

Brown, Thomas E., Jr. Boat anchor. 4,708,086, 11-24-87, Cl. 114-294.000.

Brown, Thomas G.: *See*—

Scribner, James R.; Brown, Thomas G.; and Caracciolo, Anthony, Jr., 4,688,026, Cl. 340-572.000.

Brown, Thomas H.; and Ife, Robert J., to Smith Kline & French Laboratories Limited. Pyrimidine compounds. 4,649,141, 3-10-87, Cl. 514-272.000.

Brown, Thomas H.; and Blurton, Peter, to SmithKline & French Laboratories Limited. 1,2,5-thiadiazol-3,4-diamines. 4,663,331, 5-5-87, Cl. 514-326.000.

Brown, Thomas H.; Mitchell, Robert C.; Smith, Ian R.; and Young, Rodney C., to Smith Kline & French Laboratories Limited. Histamine H_2-antagonist oxazole and thiazole derivatives and compositions therefor. 4,681,883, 7-21-87, Cl. 514-212.000.

Brown, Thomas H.; and Durant, Graham J., to Smith Kline & French Laboratories Limited. Chemical compounds. 4,694,008, 9-15-87, Cl. 514-269.000.

Brown, Trevor J.; and Phillips, James E., to General Motors Corporation. Apparatus for attaching a flexible annular member to a rigid member. 4,635,335, 1-13-87, Cl. 29-235.000.

Brown, Trevor J.; and Hoganson, Gerald G., to General Motors Corporation. Vehicle wheel cover. 4,645,269, 2-24-87, Cl. 301-37.00P.

Brown University Research Foundation: *See*—

Tauc, Jan; Maris, Humphrey J.; and Thomsen, Christian, 4,710,030, Cl. 356-432.000.

Brown, Vernon E., Jr.: *See*—

Ames, Theodore; and Brown, Vernon E., Jr., 4,712,920, Cl. 366-144.000.

Brown, Vernon L., to Motorola, Inc. Portable radio transceiver. 4,648,125, 3-3-87, Cl. 455-90.000.

Brown, Victor K. Combination square. 4,641,435, 2-10-87, Cl. 33-427.000.

Brown, Vincent B.; and McGrew, Sherman W., to Methode Electronics, Inc. Crimp type fiber optic connector. 4,693,550, 9-15-87, Cl. 350-96.200.

Brown, Wallace L.; and Madamba, O. Mark, to Ver-Val Enterprises, Inc. Munitions assembly system. 4,708,048, 11-24-87, Cl. 89-1.805.

Brown, Walter F. M.: *See*—

McGregor, Ian R.; Jackson, D. Keith; Brown, Walter F. M.; and Burrell, Kenneth, 4,708,775, Cl. 203-40.000.

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Brown, Wayne M.; Neal, William F., and Schwarz, Frederick M., to United Technologies Corporation. Rotor thrust balancing. 4,697,981, 10-6-87, Cl. 415-104.000.
Brown, Wayne M.: *See—*
  Stevens, Leonard W.; Siwik, William S.; Moore, William A.; Brown, Wayne M.; and Barnard, Andrew A., 4,709,545, Cl. 60-39.080.
Brown, Wendell E. Telescoping support structure. 4,637,192, 1-20-87, Cl. 52-632.000.
Brown-Wensley, Katherine A.; and Sinclair, Robert A., to Minnesota Mining and Manufacturing Company. Polyhydridosilanes and their conversion to pyropolymers. 4,704,444, 11-3-87, Cl. 528-25.000.
Brown, Will C.: *See—*
  Zogg, Robert A.; Robertson, Gerald F.; and Brown, Will C., 4,705,103, Cl. 165-110.000.
Brown, William C., to Raytheon Company. Magnetron amplifier power combiner. 4,634,992, 1-6-87, Cl. 330-47.000.
Brown, William C., Jr.: *See—*
  Shovlin, Thomas D.; Torino, Arthur J., Jr., Goodman, Donald W.; and Brown, William C., Jr., 4,652,882, Cl. 342-150.000.
Brown, William G., II. Solar power generation. 4,691,522, 9-8-87, Cl. 60-641.800.
Brown, William J.: *See—*
  Rowley, James R.; and Brown, William J., 4,688,976, Cl. 410-156.000.
Brown, William M.: *See—*
  Crimmins, Thomas R.; and Brown, William M., 4,644,585, Cl. 382-48.000.
  Sutherland, Robert L.; and Brown, William M., 4,708,284, Cl. 229-48.00R.
Brown & Williamson Tobacco Corporation: *See—*
  Denier, Robert F.; Marshall, Robert H.; Jewell, John N.; and Litzinger, Elmer F., 4,677,994, Cl. 131-310.000.
  Denier, Robert F.; and Marshall, Robert H., 4,687,007, Cl. 131-296.000.
  Flaherty, Kenneth A., 4,669,611, Cl. 206-442.000.
  Flaherty, Kenneth A.; Huber, Daniel J.; and Lewis, Robert T., 4,685,993, Cl. 156-475.000.
  Gonterman, Ricky A., 4,649,943, Cl. 131-336.000.
  Jewell, J. N.; Korte, K. R.; Marshall, R. H.; and Zipperle, Kevin A., 4,706,691, Cl. 131-300.000.
  Johnson, Robert R., 4,681,125, Cl. 131-336.000.
  Keith, Charles H., 4,655,736, Cl. 493-43.000.
  Korte, Kevin R.; Litzinger, Elmer; and Wu, Dan T., 4,700,722, Cl. 131-309.000.
  Lamb, Charles G.; and McMurtrie, Andrew, 4,708,150, Cl. 131-336.000.
  Lewis, Robert T.; and Tudor, Thomas T., 4,641,748, Cl. 206-263.000.
  Lewis, Robert T.; Sullivan, James W.; Milliner, Kenneth M.; and Lowe, Byron L., 4,648,858, Cl. 493-4.000.
  Luke, John A., 4,637,410, Cl. 131-361.000.
  Luke, John A., 4,677,996, Cl. 131-336.000.
  Reynolds, Martin L.; Frank, Dorothy M.; and Riehl, Tilford F., 4,643,206, Cl. 131-336.000.
  Riehl, Tilford F.; and Johnson, Robert R., 4,646,762, Cl. 131-336.000.
  Sexstone, John H.; Finn, Everett N.; Lowe, Byron L.; and Milliner, Ken M., 4,636,183, Cl. 493-42.000.
  Strubel, David G.; and Sanford, Robert A., 4,681,126, Cl. 131-370.000.
Brown, Winthrop K.: *See—*
  Lin, Chew-Chen; Brown, Winthrop K.; Lankford, Frank L., Jr.; Greenhill, Katherine L.; and Campsey, Ronald L., 4,683,464, Cl. 340-685.000.
Brownawell, Darrell W.: *See—*
  Bock, Jan; Brownawell, Darrell W.; Gutierrez, Antonio; Robbins, Max L.; Shaub, Harold; and Steyn, Peter L., 4,684,473, Cl. 252-49.800.
  Wisotsky, Max J.; Bloch, Ricardo; Brownawell, Darrell W.; Chen, Frank J.; and Gutierrez, Antonio, 4,686,054, Cl. 252-32.70E.
Browne Brothers, Inc.: *See—*
  Browne, Donald V., 4,691,505, Cl. 56-503.000.
Browne, Donald V., to Browne Brothers, Inc. Stalk shredder for self-propelled cotton stripper. 4,691,505, 9-8-87, Cl. 56-503.000.
Browne, Edward M., to ESM International, Inc. Apparatus for measuring reflectivity which is tolerant of background and product trajectory variations. 4,647,211, 3-3-87, Cl. 356-447.000.
Browne, Eric N. C.: *See—*
  Holbein, Bruce E.; Brener, David; Greer, Charles; and Browne, Eric N. C., 4,654,322, Cl. 502-403.000.
Browne, John; and Dennis, Matthew, to NEI Canada Limited. Multicolor indicator with arcuate pole pieces. 4,706,398, 11-17-87, Cl. 40-449.000.
Browne, John F. N.: *See—*
  Dakin, W. Ray; and Browne, John F. N., 4,701,603, Cl. 250-201.000.
Browne, John M., to Xerox Corporation. Vertical vacuum corrugation feeder. 4,688,782, 8-25-87, Cl. 271-9.000.
Browne, Ronald R.: *See—*
  Novak, Carl V.; and Browne, Ronald R., 4,636,593, Cl. 200-5.00A.
Brownell, David J.; Christensen, Daniel C.; Erie, David G.; and Youngner, Daniel, to Honeywell Inc. Planarization of dielectric layers in integrated circuits. 4,642,162, 2-10-87, Cl. 156-643.000.
Browner, Richard F.; and Willoughby, Ross C., to Georgia Tech Research Corporation. Monodisperse aerosol generator. 4,687,92 8-18-87, Cl. 250-282.000.
Brownie Manufacturing Co., Inc.: *See—*
  Coy, Jeffrey A., 4,638,888, Cl. 187-19.000.
Browning Arms Company: *See—*
  Larson, Marlow W., 4,686,955, Cl. 124-23.00R.
Browning, Ernest C. Internal combustion engine valve assembly mounting tool. 4,667,388, 5-26-87, Cl. 29-249.000.
Browning, Ervin R. Hoist for installing cabinets, ceiling frames and the like. 4,715,760, 12-29-87, Cl. 414-10.000.
Browning, James A., to Cabot Corporation. Flame spray method and apparatus. 4,634,611, 1-6-87, Cl. 427-423.000.
Browning, James N. Paper shredder. 4,657,192, 4-14-87, C 241-224.000.
Browning, James R., to Mr. Gasket Company. Vehicle space frame castings therefor and method for remote construction. 4,660,34 4-28-87, Cl. 52-648.000.
Browning, Joseph M.: *See—*
  James, Leonard E.; Fisher, William B.; Crescentini, Lamberto; and Browning, Joseph M., 4,692,321, Cl. 423-404.000.
Browning, Michael R.; Cronk, Evelyn L.; and Adams, Phillip A., t Cinemotion Pty. Ltd. Entertainment structure. 4,642,945, 2-17-87, C 52-10.000.
Browning, Norman F.: *See—*
  Alsobrook, Lawrence C.; and Browning, Norman F., 4,691,469, C 43-54.100.
Browning, Paul D.: *See—*
  Banks, Geoffrey T.; and Browning, Paul D., 4,692,408, C 435-104.000.
Browning, Robert A., Jr.; Ely, Gary W., and Hayes, Leonard L., to Co Manufacturing Company, The. Large diameter nose bar roll apparatus for veneer lathe with automatic knife gap adjustment during peeling. 4,708,180, 11-24-87, Cl. 144-213.000.
Browning, Ronald C.; and Pleiss, Melvin G., Jr., to Eli Lilly and Company. Crystallization process for ceftazidime derivative. 4,659,81 4-21-87, Cl. 540-225.000.
Brownlee, Michael: *See—*
  Cerami, Anthony; Pongor, Sandor; and Brownlee, Michael, 4,705,845, Cl. 530-305.000.
Brownlee, Shirley G.: *See—*
  Kitchens, Judith F.; Culp, Carl H., Sr.; Hyde, Raymond G.; and Brownlee, Shirley G., 4,701,125, Cl. 432-1.000.
Brownlie, Alan; and Saint, Nathaniel, to Graco Metal Products. Infant seat. 4,688,850, 8-25-87, Cl. 297-270.000.
Brownrigg, Neville J., to American Cyanamid Company. Process fo alumina recovery. 4,678,585, 7-7-87, Cl. 210-727.000.
Brownstein, Raymond G. Solidified surface monitored continuous metal casting system. 4,703,790, 11-3-87, Cl. 164-155.000.
Brownstein, Scott A., to Eastman Kodak Company. Thermal printer 4,691,211, 9-1-87, Cl. 346-76.0PH.
Brownstein, Scott A.: *See—*
  Caine, Holden; and Brownstein, Scott A., 4,710,783, Cl. 34 76.0PH.
Brownstein, Sydney K., to Canadian Patents and Development Lim ed-Societe Canadienne des Brevets et d'Exploitation Limitee. Te nary charge transfer complex. 4,675,416, 6-23-87, Cl. 549-3.000.
Broxholme, Mark A.: *See—*
  Laycock, Arthur; Harris, Michael J.; and Broxholme, Mark A., 4,636,249, Cl. 75-53.000.
Broyden, Robert H.; Benton, R. Paul; and Eldridge, Allen E., to Co lumbus McKinnon Corporation. Electric hoist pendant contr switch arrangement. 4,635,903, 1-13-87, Cl. 254-362.000.
Broyden, Robert H.; Schenk, Douglas E.; and Newman, Raymond A. to Columbus McKinnon Corporation. Microprocessor-controlle hoist system. 4,636,962, 1-13-87, Cl. 364-478.000.
Broyer, Ephraim: *See—*
  Bellet, Richard J.; Broyer, Ephraim; Bekker, Alex Y.; and Lac Melvin A., 4,708,839, Cl. 264-85.000.
Broyles, Thomas E.: *See—*
  Kastendieck, William A.; and Broyles, Thomas E., 4,672,194, C 250-213.0VT.
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  Durl, Bernd; Bos, Johannes; Ong, Sienlung; Raffel, Peter; an Brozat, Kurt, 4,680,033, Cl. 8-449.000.
Broze, Guy; and Delvenne, Jean-Paul, to Colgate-Palmolive Compan Built non aqueous liquid nonionic laundry detergent compositio containing urea stabilizer and method of use. 4,648,983, 3-10-87, C 252-135.000.
Broze, Guy; Bastin, Danielle; Laitem, Leo; and Ouhadi, Trazollah, t Colgate-Palmolive Company. Low phosphate or phosphate fre nonaqueous liquid nonionic laundry detergent composition an method of use. 4,655,954, 4-7-87, Cl. 252-102.000.
Broze, Guy: *See—*
  Ouhadi, Trazollah; Broze, Guy; Dehan, Louis; and van de Ga Daniel, 4,661,280, Cl. 252-99.000.
Brozovic, George R.; Djobadze, Michael O.; and Navarrete, Felix N to Lockheed Corporation. Vacuum bag sealing system. 4,681,6 7-21-87, Cl. 156-382.000.
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  Czubernat, Donald A.; and Brozowski, Alan C., 4,653,833, C 339-119.00C.
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- Brubaker, Weldon L.: *See—*
  - Finney, James E.; and Brubaker, Weldon L., 4,697,340, Cl 29-862.000.
- Brubakken, Gardner G.; and Mohammadian, Mehdi. Self-contained bathroom unit. 4,704,747, 11-10-87, Cl 4-321.000.
- Bruce, Donald, and Goode, Richard L. Middle ear ventilation tube 4,695,275, 9-22-87, Cl 604-264.000.
- Bruce, James D. Mobile spray apparatus. 4,669,662, 6-2-87, Cl 239-163.000.
- Bruce, Kenneth E., to Honeywell Information Systems Inc. Graphic display scan line blanking capability. 4,642,626, 2-10-87, Cl 340-750.000.
- Bruce, Kenneth E., to Honeywell Information Systems Inc. Apparatus for distortion free clearing of a display during a single frame time 4,701,863, 10-20-87, Cl 364-518.000.
- Bruce, Kenneth E.: *See—*
  - Holtey, Thomas O.; Bruce, Kenneth E.; and Goss, Gary J., 4,683,466, Cl 340-703.000.
- Bruce & Merrilees Electric Co.: *See—*
  - Bruce, Robert J.; and Naypaver, John K., 4,660,306, Cl 37-86.000.
- Bruce, Robert J.; and Naypaver, John K., to Bruce & Merrilees Electric Co. Trencher attachment for hydraulic excavators. 4,660,306, 4-28-87, Cl 37-86.000.
- Bruce, William C., Jr.: *See—*
  - Peters, Tulley M.; and Bruce, William C., Jr., 4,679,194, Cl 371-16.000.
- Bruce, William D., to Rally Mate Inc. Sports training apparatus 4,647,042, 3-3-87, Cl 273-26.00E.
- Bruch, George H., to Zornes, David A. Fire hose coupling lock. 4,648,630, 3-10-87, Cl 285-87.000.
- Bruch, Guy. Process of vinification. 4,711,785, 12-8-87, Cl 426-15.000.
- Brucher, Melvin J. Wheel assembly for an abrasive blasting apparatus 4,651,477, 3-24-87, Cl 51-434.000.
- Bruchez, Jeffrey A., to Ferranti, plc. Semiconductor device containing bipolar transistor formed by method including three photolithographic steps. 4,700,456, 10-20-87, Cl 439-54.000.
- Bruchon, Paul E., Jr., to Sherrill Industries, Inc. Hanger bearing. 4,704,038, 11-3-87, Cl 384-443.000.
- Bruck, Gary A., to Chrysler Motors Corporation. Latching mechanism for a pivotally mounted door. 4,657,292, 4-14-87, Cl 292-80.000.
- Bruck, Gary A., to Chrysler Motors Corporation. Latching mechanism for a pivotally mounted door. 4,669,764, 6-2-87, Cl 292-85.000.
- Bruck, Gerald J.: *See—*
  - Kasner, William H.; Bruck, Gerald J.; Miller, Richard A.; and Toth, Vincent A., 4,694,136, Cl 219-121.0LD.
- Bruck, Horst, to John Crane-Houdaille, Inc. Flash sorting apparatus. 4,635,798, 1-13-87, Cl 209-644.000.
- Bruckdorfer, Roderick A.; and Coleman, Samuel E., to Dowell Schlumberger Incorporated. CO$_2$-enhanced hydrocarbon recovery with corrosion-resistant cement. 4,635,724, 1-13-87, Cl 166-268.000.
- Bruckert, William F.: *See—*
  - Altman, Barbara H.; Bruckert, William F.; and Dellicicchi, Alfred J., 4,700,330, Cl 365-222.000.
- Bruckmann, Heinz; Wolfsgruber, Friedrich; and Weiser, Ernst A., to SKW Trostberg Aktiengesellschaft. Inoculant alloy based on ferrosilicon or silicon and process for its preparation. 4,643,768, 2-17-87, Cl 420-578.000.
- Bruckner Apparatebau GmbH: *See—*
  - Schuierer, Manfred, 4,633,806, Cl 118-419.000.
- Bruckner, Christopher A.: *See—*
  - Silgailis, John; Nathasingh, Davidson M.; and Bruckner, Christopher A., 4,668,309, Cl 148-108.000.
- Bruckner nee Gabor, Edit: *See—*
  - Simon, Ferenc; Romvary, Attila; Varga, Janos; Bozzay, Laszlo; and Bruckner nee Gabor, Edit, 4,650,790, Cl 514-39.000.
- Bruckner Trockentechnik GmbH & Co. KG: *See—*
  - Gresens, Harry, 4,657,115, Cl 184-6.100.
  - Gresens, Harry, 4,704,806, Cl 34-54.000.
  - Gresens, Harry, 4,706,348, Cl 26-93.000.
- Bruckner, Werner: *See—*
  - Goehle, Rolf; Schmitt, Volker; Bruckner, Werner; and Greefe, Klaus, 4,698,609, Cl 335-255.000.
- Bruckstein-Davidovici, Rachel: *See—*
  - Amitai, Gabriel; Balderman, David; Bruckstein-Davidovici, Rachel; and Spiegelstein, Michael, 4,675,326, Cl 514-304.000.
- Bruder, Peter: *See—*
  - Bleger, Claude; Bruder, Peter; and Munster, Ernst, 4,664,466, Cl 339-126.00R.
- Brudereck, Ulrich; and Gabriel, Klaus-Dieter, to Mannesmann AG. Trolley with cable suspension. 4,702,175, 10-27-87, Cl 105-154.000.
- Bruderer, Werner; and Bohler, Erwin, to Werkzeugmaschinenfabrik Oerlikon-Buhrle AG. Arrangement for locking a breechblock head at the rear end of a weapon barrel. 4,655,118, 4-7-87, Cl 89-185.000.
- Bruderer, Werner, to Werkzeugmaschinenfabrik Oerlikon-Buhrle AG. Apparatus for securing a connection. 4,711,596, 12-8-87, Cl 403-348.000.
- Bruderer, Werner: *See—*
  - Bohler, Erwin; Iten, Beat; and Bruderer, Werner, 4,656,922, Cl 89-33.170.
  - Bohler, Erwin; and Bruderer, Werner, 4,688,438, Cl 74-2.000.
  - Buhler, Ludwig; Erwin, Bohler; and Bruderer, Werner, 4,660,457, Cl 89-12.000.
- Brudermann, Uwe: *See—*
  - Gotzen, Leo; and Brudermann, Uwe, 4,662,365, Cl 128-92.0ZW.
- Brudermanns, Karola: *See—*
  - Lindner, Christian; Brudermanns, Karola; Waniczek, Helmut; Uerdingen, Walter; and Hurnik, Helmut, 4,683,267, Cl 525-133.000.
- Bruderreck, Hartmut: *See—*
  - Wolfrum, Jurgen; Warnatz, Jurgen; Bruderreck, Hartmut; Gottlieb, Klaus; and Preuss, August-Wilhelm, 4,664,904, Cl 423-648.00R.
- Brudney, Norman: *See—*
  - Maes, Daniel; and Brudney, Norman, 4,705,681, Cl 424-70.000.
- Brudnoy, David M., to United States of America, Energy. Dual beam translator for use in Laser Doppler anemometry. 4,637,717, 1-20-87, Cl 356-28.500.
- Brudny-Chelyadinov, Sergei J.; Budyansky, Vigdor S.; and Filimonov, Viktor A., to Vsesojuzny Nauchno-Issle-Dovatelsky Institut Burovoi Tekhniki. Hydraulic multistage turbine of turbodrill. 4,676,716, 6-30-87, Cl 415-144.000.
- Brueck, Erhard, to Loh Optikmaschinen Kommanditgesellschaft. Machine for grinding of toric surfaces on optic lenses. 4,653,233, 3-31-87, Cl 51-124.00L.
- Bruegge, Anthony J.; and Daughtery, Denny E., to Chemed Corporation. Solid stabilized active halogen-containing detergent compositions and methods. 4,681,696, 7-21-87, Cl 252-99.000.
- Brueggeman, Michael; Clark, James W.; and Phy, William S., to Fairchild Semiconductor Corporation. Semiconductor structure having alpha particle resistant film and method of making the same. 4,653,175, 3-31-87, Cl 29-574.000.
- Brueggemann, Harry P., to Xerox Corporation. Wobble correction by two reflectors on an internally reflecting facet without bow. 4,662,709, 5-5-87, Cl 350-6.700.
- Brueggemann, Harry P., to Xerox Corporation. Scanning system with two reflections from scanning surface by mirrors with optical power. 4,682,842, 7-28-87, Cl 350-6.700.
- Bruekers, Alphons A. M. L.: *See—*
  - Kessels, Jozef L. W.; and Bruekers, Alphons A. M. L., 4,686,670, Cl 370-68.000.
- Bruel, Michel; and du Port de Poncharra, Jean, to Commissariat a l'Energie Atomique. Process for producing an insulating layer buried in a semiconductor substrate by ion implantation. 4,704,302, 11-3-87, Cl 427-38.000.
- Brueninghaus Hydraulik GmbH: *See—*
  - Beutler, Gerhard; and Berthold, Heinz, 4,668,171, Cl 417-213.000.
- Bruensicke, Wilhelm A., to Lockheed Corporation. Fire suppression system for an aircraft. 4,646,848, 3-3-87, Cl 169-62.000.
- Bruer, Dirk; Tooten, Karl-Heinz; and Freye, Theo, to Claas OHG. Rotational sphere press for agricultural grain stem products. 4,686,812, 8-18-87, Cl 53-118.000.
- Brueske, Ralph H., to Butler Manufacturing Company. Edge of roof perimeter workman safety light device. 4,644,329, 2-17-87, Cl 340-556.000.
- Bruetsch, Edgar: *See—*
  - Gobien, Ernst; Haussmann, Gerhard; and Bruetsch, Edgar, 4,658,763, Cl 123-41.82R.
- Bruffey, Robert D., Jr.: *See—*
  - Gaunt, Loraine E.; Crosby, Samuel C.; Saunders, William J.; and Bruffey, Robert D., Jr., 4,635,524, Cl 222-129.100.
  - Gaunt, Loraine E.; Crosby, Samuel C.; Saunders, William J.; and Bruffey, Robert D., Jr., 4,711,374, Cl 222-129.100.
- Brugel, Edward G., to Du Pont de Nemours, E. I. and Company. Copolyetherketones. 4,704,448, 11-3-87, Cl 528-125.000.
- Bruggeman, Aime: *See—*
  - Rahier, Andre; Cornelissen, Rene D. W.; and Bruggeman, Aime, 4,714,533, Cl 204-262.000.
- Bruggemann & Brand GmbH & Co. KG: *See—*
  - Logemann, Horst, 4,687,160, Cl 244-142.000.
- Bruggemann, Horst, to Deutsche Asphalt GmbH. Method and apparatus for processing mixed asphalt material utilizing broken-up used asphalt. 4,705,404, 11-10-87, Cl 366-7.000.
- Bruggemann, Reinhold: *See—*
  - Grundken, Dieter; and Bruggemann, Reinhold, 4,673,079, Cl 198-599.000.
- Bruggemann, Ulrich, to VDO Adolf Schindling AG. Electrical testing device for a vehicle combination instrument. 4,701,867, 10-20-87, Cl 364-550.000.
- Bruggen, Gerhard: *See—*
  - Brauer, Ilan; Bruggen, Gerhard; and Karr, Dieter, 4,660,523, Cl 123-458.000.
- Brugger, Inge; and Brugger, Stephan, to Brugger, Inge Inhaler. 4,674,491, 6-23-87, Cl 128-200.140.
- Brugger, Rudolf: *See—*
  - Goldmann, Horst; Einsle, Guenter; Brugger, Rudolf; and Wacker, Josef, 4,713,866, Cl 29-33.00K.
- Brugger, Stephan: *See—*
  - Brugger, Inge; and Brugger, Stephan, 4,674,491, Cl 128-200.140.
- Brugger, Werner, to Gebruder Buhler AG. Machine for molding articles by injection molding or die casting. 4,708,620, 11-24-87, Cl 425-154.000.
- Bruggi, Mario. Machine for automatically carding soles of footwear. 4,644,602, 2-24-87, Cl 12-1.00A.
- Brugidou, Jean: *See—*
  - Commeyras, Auguste; Taillades, Jacques; Brugidou, Jean; Mion, Louis; Sola, Regine; Pascal, Robert; Lasperas, Monique; and Rousset, Alain, 4,677,224, Cl 562-557.000.
- Brugman, Johannes A., to Hunter Douglas International N.V. Grid panels suspended by slidable brackets. 4,658,562, 4-21-87, Cl 52-665.000.

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Brugman, Wilhelmus T. J., to Oce-Nederland B.V. Device for exposing an edge zone of a photoconductive element to light. 4,648,703, 3-10-87, Cl. 355-3.00R.

Brugman, William H. Diskette clip. 4,649,452, 3-10-87, Cl. 360-133.000.

Brugnoli, Siro, to COSMED S.r.l. Portable device for the survey of the breathing ventilation and of the oxygen consumption, connected by means of radio signals to a fixed reception and elaboration station. 4,658,832, 4-21-87, Cl. 128-719.000.

Brugnoli, Vincenzo, to Amici, Francesco. Valve for the interception and regulation of flow with a fixed tubular sealing element. 4,683,907, 8-4-87, Cl. 137-414.000.

Bruhn, Bernhard: *See—*

Boeckmann, Juergen; Bruhn, Bernhard; Hofmann, Harald; Hoejer, Anke; Mikuteit, Axel; Ritter, Hans-Joachim; and Tenhagen, Rolf, 4,669,617, Cl. 211-69.700.

Bruhnke, Ulrich: *See—*

Schumacher, Rolf; Faix, Heinz; and Bruhnke, Ulrich, 4,635,415, Cl. 52-127.100.

Bruinsma, Robert F., to Datron Systems, Inc. Fastener for joining panels to each other. 4,693,629, 9-15-87, Cl. 403-170.000.

Bruker Medizintechnik GmbH: *See—*

Bielke, Gernot, 4,692,767, Cl. 324-309.000.

Knuttel, Alexander; and Knuttel, Bertold, 4,674,837, Cl. 350-130.000.

Post, Hans; Ratzel, Dieter; Brunner, Peter; and Knuttel, Bertold, 4,694,249, Cl. 324-309.000.

Strobel, Bernhard; and Ratzel, Dieter, 4,697,148, Cl. 324-309.000.

Zeiger, Heinz; and Laukien, Gunther R., 4,698,594, Cl. 324-309.000.

Brule, Gerard: *See—*

Roger, Loic; Maubois, Jean-Louis; Brule, Gerard; and Piot, Michel, 4,711,953, Cl. 530-366.000.

Brule, Jean C. R.: *See—*

Vigneron, Gerard G.; and Brule, Jean C. R., 4,641,556, Cl. 83-36.000.

Brule, Paul L., to Ventureprise, Inc. Conveyor. 4,650,067, 3-17-87, Cl. 198-841.000.

Brulet, Daniel, to Societe d'Extrusion et de Transformation. Process for the preparation in microsuspension of a vinyl chloride polymer latex and resultant products. 4,716,195, 12-29-87, Cl. 524-851.000.

Brull, John J., to AGA AB. Cryogen shot blast deflashing apparatus with inert gas purging system. 4,646,484, 3-3-87, Cl. 51-436.000.

Brull, John J.; and Schmitz, Robert E., to AGA AB. Cryogen shot blast deflashing system. 4,648,214, 3-10-87, Cl. 51-410.000.

Brull, Maurice A., to Tensiodyne Scientific Corporation. Method of making a device for monitoring fatigue life. 4,639,997, 2-3-87, Cl. 29-407.000.

Brull, Robert A.; Walker, Alan H.; and Moro, Joseph C., to NCR Corporation. Single station printer for printing on plural record media. 4,655,625, 4-7-87, Cl. 400-605.000.

Bruller, Eduard: *See—*

Bihler, Otto; and Bruller, Eduard, 4,696,178, Cl. 72-384.000.

Brullmann, Cuno; Lavergnolle, Arnaud F.; and Erlong, Etienne, to Bureau Technique du Batiment, d'Amenagements et de Constructions. Set of structural elements for the installation of exhibition areas, residential areas or any areas used for other purposes. 4,646,503, 3-3-87, Cl. 52-646.000.

Bruls, Wilhelmus G. M.; and Roerdink, Eize, to Stamicarbon B.V. Thermoplastic moulding compound. 4,661,545, 4-28-87, Cl. 524-147.000.

Brumage, John. Stereoscopic imaging apparatus and methods. 4,709,263, 11-24-87, Cl. 358-88.000.

Brumaghim, Milton W.: *See—*

Montgomery, John R.; Brumaghim, Milton W.; and Deniega, Jose C., 4,662,373, Cl. 128-325.000.

Brumbach, Joseph F., to Fibra-Sonics, Inc. Ultrasonic lithotriptor probe. 4,660,573, 4-28-87, Cl. 128-303.00R.

Brumbalough, Jack J. Stair unit structure. 4,706,425, 11-17-87, Cl. 52-182.000.

Brumley, Dennis V.: *See—*

Caputi, Roger W.; Pierick, Edward G.; Brumley, Dennis V.; and Kincaid, Charles B., 4,664,754, Cl. 203-39.000.

Brumme, Gerhard; and Paur, Konrad, to Siemens Aktiengesellschaft. Transversely excited gas laser and method for the operation thereof. 4,703,490, 10-27-87, Cl. 372-86.000.

Brummel, David J.: *See—*

Johnson, Daniel C.; and Brummel, David J., 4,706,358, Cl. 29-235.000.

Brun, Chalres G. H.; Bailleul, Jean F.; Lecendre, Fuddy, and Coolen, Franueine, to Union Siderurgique du Nord et de l'Est de la France (USINOR). Process and apparatus for determining the quality of a thin coated or uncoated steel sheet. 4,663,956, 5-12-87, Cl. 72-167.000.

Brun, Jean-Louis: *See—*

Berrod, Gerard; Maurer, Robert; Brun, Jean-Louis; Bosc, Philippe; and Allemand, Pierre, 4,665,985, Cl. 166-281.000.

Brun, Jean-Paul: *See—*

Le Mouellic, Georges; Brun, Jean-Paul; and Gidrol, Jean C., 4,646,263, Cl. 365-1.000.

Brun, Milivoj K.; and Hillig, William B., to General Electric Company. Composite of Si_3N_4 by infiltration. 4,661,461, 4-28-87, Cl. 501-97.000.

Brun, Milivoj K.; and Hillig, William B., to General Electric Company. Composite of Si_3N_4 by infiltration. 4,689,189, 8-25-87, Cl. 264-62.000.

Brun, Norbert: *See—*

Cibie, Pierre; and Brun, Norbert, 4,686,610, Cl. 362-61.000.

Brun, Philip L.; and Bright, Stephen A., to Electra Form, Inc. Injection molding machine. 4,634,366, 1-6-87, Cl. 425-526.000.

Brun-Vezinet, Francoise: *See—*

Montagnier, Luc; Chermann, Jean-Claude; Barre-Sinoussi, Francoise; Brun-Vezinet, Francoise; Rouzioux, Christine; Rozenbaum, Willy; Dauguet, Charles; Gruest, Jacqueline; Nugeyre, Marie-Therese; Rey, Francoise; Axler-Blin, Claudine; Chamaret, Solange; Gallo, Robert C.; Popovic, Mikulas; and Sarngadharan, Mangalasseril G., 4,708,818, Cl. 435-5.000.

Bruna, Costantino D.: *See—*

Perrone, Ettore; Alpegiani, Marco; Zarini, Franco; Bruna, Costantino D.; and Franceschi, Giovanni, 4,713,378, Cl. 514-192.000.

Brunaud, Claude: *See—*

Brion, Jean-Claude A.; Brunaud, Claude; Jean, Robert P. H., and Machet, Rene H., 4,680,671, Cl. 361-329.000.

Brundidge, Steven P.; Brodfuehrer, Paul R.; Sapino, Chet, Jr.; Shi Kun M.; and Walker, Donald G., to Bristol-Myers Company. Cephalosporin intermediates. 4,714,760, 12-22-87, Cl. 540-222.000.

Brundle, Christopher R.: *See—*

Alnot, Patrick R.; Auerbach, Daniel J.; Brundle, Christopher R.; and Miller, Dolores C., 4,640,718, Cl. 134-2.000.

Brunea, Robert W.; and Raby, James M., to Moore Business Forms, Inc. Chromogenic mixtures. 4,639,271, 1-27-87, Cl. 106-21.000.

Brunel, Gerald. Installation for monitoring the functioning of a boiler. 4,698,015, 10-6-87, Cl. 431-76.000.

Brunel, Roland; and Peu, Jean-Claude, to Pompes Salmson. Multicellular pump with removable cartridge. 4,669,956, 6-2-87, C 415-201.000.

Brunel, Sylvain; Germanaud, Laurent; Le Perchec, Pierre; and Sil Bernard, to Institut Francais du Petrole; and Centre National de l Recherche Scientifique. Surface-active compounds of the su fobetaines family, their manufacture and use, particularly for e hanced oil recovery. 4,704,229, 11-3-87, Cl. 252-352.000.

Brunel University: *See—*

Tyman, John H. P., 4,697,038, Cl. 564-265.000.

Brunelle, Daniel J., and Shannon, Thomas G., to General Electr Company. Method for the preparation of chloroformate compos tions. 4,638,077, 1-20-87, Cl. 558-281.000.

Brunelle, Daniel J., and Shannon, Thomas G., to General Electr Company. Cyclic polycarbonate oligomers and methods for the preparation and use. 4,644,053, 2-17-87, Cl. 528-371.000.

Brunelle, Daniel J., to General Electric Company. Bis-aminopyridini salts as phase transfer catalysts for aromatic ether imide preparati 4,681,949, 7-21-87, Cl. 548-461.000.

Brunelle, Daniel J.; Guggenheim, Thomas L.; Boden, Eugene P.; Sha non, Thomas G.; and Guiles, Joseph W., to General Electric Com pany. Cyclic heterocarbonates and methods for their preparation an use. 4,696,998, 9-29-87, Cl. 528-272.000.

Brunelle, Daniel J.: *See—*

Kosky, Philip G.; Silva, James M.; Brunelle, Daniel J.; and Sha non, Thomas G., 4,649,210, Cl. 558-265.000.

Brunelle, Philip E., and Southerland, Bob R., to Storage Technolog Corporation. I/O device reconnection in a multiple-CPU, dynam path allocation environment. 4,697,232, 9-29-87, Cl. 364-200.000.

Brunelli, Maurizio; Ferrari, Pierferdinando; Stroppa, Fabrizio; a Bellussi, Giuseppe, to Eniricerche S.p.A. Process for the preparat of alkylarylethers. 4,654,446, 3-31-87, Cl. 568-630.000.

Brunelli, Timothy A.: *See—*

Cheresnowsky, Michael J.; Brunelli, Timothy A.; and Munn, Rob W., 4,643,884, Cl. 423-53.000.

Cheresnowsky, Michael J.; Brunelli, Timothy A.; and Kim, Ta 4,702,895, Cl. 423-54.000.

Bruner, Curtis H.: *See—*

Moon, Ronald R.; Machado, Michael G.; Cooper, Thomas Weiher, Patrick M.; Bruner, Curtis H.; Strysko, Mark E.; Uhl dorf, Gregg J.; Campbell, Steven G.; Quan, Tuong T.; a Luong, Hoa V., 4,669,004, Cl. 360-77.000.

Bruner, Harold S., Jr., to Du Pont de Nemours, E. I., and Compa Carboalkoxylation of butadiene to form dialkyl adipate. 4,692,5 9-8-87, Cl. 560-204.000.

Bruner, Jeffrey W., and Davis, Delbert A., to Burlington Industr Inc. Weft inserted warp knit fencing product. 4,636,428, 1-13-87, 428-254.000.

Bruner, Maurice M.: *See—*

Yates, Chester R.; and Bruner, Maurice M., 4,704,752, 5-247.000.

Brunet, Ana G.: *See—*

Cooper, William H.; Brunet, Ana G.; and Campbell, William 4,676,971, Cl. 423-641.000.

Brunet, Henri; Mabru, Michel, and Gastaud, Michel, to Compag Generale d'Electricite. Gas laser generator and method of operat same. 4,706,257, 11-10-87, Cl. 372-88.000.

Brunet, Maurice L., and Jolivet, Jean-Pierre, to Societe Anony Styled: Societe Europeenne de Propulsion. Radial displacem magnetic detector device for a rotor. 4,692,699, 9-8-87, 324-207.000.

Brunet, Patrice, to Poutrait-Morin. Multiple compartment ampule automatic hypodermic syringes. 4,643,721, 2-17-87, Cl. 604-191.0

Brunet, Pierre. Motorized moving device. 4,709,772, 12-1-87, 180-8.200.

Brunett, Juanita L. Apparatus for supporting and storing engineer drawings and the like. 4,708,509, 11-24-87, Cl. 402-4.000.

Brunette Machine Works, Ltd.: *See—*

Hards, John E., 4,640,160, Cl. 83-71.000.

Bruni, Ludovico, to AE PLC. Pistons for internal combustion eng 4,674,399, 6-23-87, Cl. 92-158.000.

Brunier, Michel. Sport apparatus for training in boxing and in the martial arts. 4,653,746, 3-31-87, Cl. 272-78.000.

Brunig, Matthias A. M.; and Moller, Werner G. Apparatus for transporting and/or mixing gases. 4,648,787, 3-10-87, Cl. 415-72.000.

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Bruning, E. Eugene, to Caterpillar Inc. Air-fuel ratio control system having a fluid-powered broken-link mechanism. 4,640,247, 2-3-87, Cl. 123-388.000.

Bruning, John H., to American Telephone and Telegraph Company, AT&T Bell Laboratories. System for maintaining the optical alignment between stationary and moving equipment in deep-UV lithography. 4,703,166, 10-27-87, Cl. 250-201.000.

Bruning, Jurgen; Emberger, Roland; Hopp, Rudolf; Kopsel, Manfred; Sand, Theodor; and Werkhoff, Peter, to Haarmann & Reimer GmbH. Unsymmetrical dihydrodithiazines, and their use as fragrances and flavorings. 4,647,662, 3-3-87, Cl. 544-5.000.

Bruning, Jurgen; Emberger, Roland; Hopp, Rudolf; and Sand, Theodor, to Haarmann & Reimer GmbH. Flavoring with oct-2-en-4-ol. 4,710,392, 12-1-87, Cl. 426-534.000.

Bruning, Jurgen: *See*—

Emberger, Roland; Kopsel, Manfred; Bruning, Jurgen; Hopp, Rudolf; and Sand, Theodor, 4,654,168, Cl. 252-522.00R.

Bruning, Richard P.: *See*—

Lathers, Michael W.; and Bruning, Richard P., 4,711,496, Cl. 297-452.000.

Bruning, Rose M. Apparatus and method for supporting an infant in a generally semi-Fowler position. 4,648,142, 3-10-87, Cl. 5-93.00R.

Bruninga, Kenneth J., to L. R. Nelson Corporation. Water timer. 4,708,264, 11-24-87, Cl. 222-20.000.

Brunje, Horst: *See*—

Jannemann, Theo; and Brunje, Horst, 4,699,122, Cl. 126-362.000.

Brunke, Ernst-Joachim; and Kappey, Claus-Hermann, to Dragoco Gerberding & Co. GmbH. 4-(2,2,3-trimethylcyclopent-3-en-1-yl)-but-3en-1-ols, methods for their production and use as odorants. 4,652,402, 3-24-87, Cl. 252-522.00R.

Brunke, Ernst-Joachim; and Struwe, Hartmut, to Dragoco Gerberding and Co. GmbH. Mixtures of tricyclo-decane-derivatives together with their preparation and use are perfuming- and flavoring materials. 4,683,083, 7-28-87, Cl. 252-522.00R.

Brunke, Ernst-Joachim; and Struwe, Hartmut, to DRAGOCO Gerberding & Co. GmbH. Mixtures of dimethyl-tricyclo (5.2.1.02,6) decane derivatives together with their preparation and use as a scent and flavor materials. 4,709,061, 11-24-87, Cl. 549-544.000.

Brunken, Gerd, to Fichtel & Sachs AG. Fluid-friction coupling for a cooling fan of an internal combustion engine. 4,662,495, 5-5-87, Cl. 192-58.00B.

Brunken, Gerd, to Fichtel & Sachs AG. Fluid friction coupling. 4,665,694, 5-19-87, Cl. 60-330.000.

Brunken, Gerd; Gob, Werner; and Neugebauer, Dieter, to Fichtel & Sachs AG. Fluid friction clutch. 4,676,355, 6-30-87, Cl. 192-58.00B.

Brunken, Gerd; Gob, Werner; and Reis, Oswald, to Fichtel & Sachs AG. Temperature-dependently controllable fluid friction clutch. 4,685,549, 8-11-87, Cl. 192-58.00B.

Brunn, Frederick A.; Hoppe, Edward A.; and Volpini, Paul M., to International Totalizator Systems, Inc. Ticket printing and issuing apparatus and method with impound means. 4,704,518, 11-3-87, Cl. 235-480.000.

Brunn, Horst; Schulten, Gerd-Hermann; and Fuhr, Werner, to Bayer Aktiengesellschaft. Process for the production of black pigments based on iron. 4,701,221, 10-20-87, Cl. 106-304.000.

Brunn, Horst: *See*—

Burow, Wilfried; Printzen, Helmut; Brunn, Horst; and Nollen, Klaus, 4,698,100, Cl. 106-304.000.

Brunn, Klaus; and Polster, Walter, to Siemens Aktiengesellschaft. X-ray diagnostic system with an image intensifier television chain. 4,649,558, 3-10-87, Cl. 378-97.000.

Brunn, Klaus, to Siemens Aktiengesellschaft. X-ray diagnostic installation having a control system for the x-ray tube high voltage. 4,679,218, 7-7-87, Cl. 378-101.000.

Brunn, Otto, to Standard Elektrik Lorenz Aktiengesellschaft. Color picture tube with mounting structure for a shadow mask. 4,647,222, 3-17-87, Cl. 313-406.000.

Brunn, Otto, to Standard Elektrik Lorenz Aktiengesellschaft. Color picture tube with shadow mask mounting means. 4,663,561, 5-5-87, Cl. 313-406.000.

Brunn, Otto, to Alcatel N.V. Color picture tube deflection unit. 4,700,106, 10-13-87, Cl. 313-413.000.

Brunner, Donald W., to Diamond Straw Incorporated. Shipping and dispensing container for drinking straws. 4,658,984, 4-21-87, Cl. 221-64.000.

Brunner, Erwin: *See*—

Baur, Karl G.; Diehl, Volker; Stops, Peter; Hellbach, Hans; and Brunner, Erwin, 4,681,946, Cl. 546-317.000.

Brunner, Gerhard: *See*—

Zerle, Ludwig; Brunner, Gerhard; and Lorenz, Otto, 4,673,803, Cl. 235-436.000.

Brunner, Hans A.; and Vaughan, Donald E., to Reynolds Metals Company. Method and apparatus for heat sealing. 4,680,073, 7-14-87, Cl. 156-250.000.

Brunner, Hans-Georg, to Ciba-Geigy Corporation. Cyclohexenonecarboxylic acid derivatives with herbicidal and plant growth regulating properties. 4,640,706, 2-3-87, Cl. 71-94.000.

Brunner, Hans-Georg, to Ciba-Geigy Corporation. 2-aryl-4,6-dihalopyrimidines as antidote for protecting cultivated plants from phytotoxic damage caused by herbicides. 4,648,896, 3-10-87, Cl. 71-90.000.

Brunner, Hans-Georg, to Ciba-Geigy Corporation. Cyclohexanedionecarboxylic acid derivatives with herbicidal and plant growth regulating properties. 4,693,745, 9-15-87, Cl. 71-94.000.

Brunner, Hans-Georg; Burdeska, Kurt; and Fory, Werner, to Ciba-Geigy Corporation. 2-phenylpyrimidines, 2-naphthylpyrimidines and 2-heterocyclylpyrimidines as safeners for protecting cultivated plant against phytotoxic damage caused by herbicides. 4,698,091, 10-6-87, Cl. 71-87.000.

Brunner, Hans-Georg: *See*—

Burdeska, Kurt; Kabas, Guglielmo, deceased; Brunner, Hans-Georg; and Fory, Werner, 4,674,229, Cl. 47-57.600.

Brunner, Heinz; and Seeger, Stefan, to Sipra Patententwicklungs-und Beteiligungsgesellschaft mbH. Arrangement for positive supply of elastomer filaments in textile machines. 4,681,272, 7-21-87, Cl. 242-47.010.

Brunner, Henri; Schonenberger, Helmut; Schmidt, Manfred; Holzinger, Ulrich; Unger, Gerfried; and Engel, Jurgen, to ASTA-Werke Aktiengesellschaft Chemische Fabrik. Tumor retarding (1-benzyl-ethylenediamine)-platin (II)-complexes. 4,704,464, 11-3-87, Cl. 556-137.000.

Brunner, Hubert; and Liepold, August, to Agfa-Gevaert Aktiengesellschaft. Cassette display window. 4,650,601, 3-17-87, Cl. 252-301.350.

Brunner, Hubert: *See*—

Pertzsch, Albert; Zeroni, Ludwig; and Brunner, Hubert, 4,712,150, Cl. 360-132.000.

Brunner, Jean, to Universo S.A. Miniature lamp holder. 4,704,660, 11-3-87, Cl. 362-455.000.

Brunner, Josef; and Ritzer, Josef. Device for cleaning shellfish. 4,710,999, 12-8-87, Cl. 17-65.000.

Brunner, Merlin A.; Draheim, Harvey J.; and Charlson, Glenn T., to Simmons Universal Corporation. Crib. 4,703,524, 11-3-87, Cl. 5-93.00R.

Brunner, Othmar: *See*—

Wullschleger, Andreas; and Brunner, Othmar, 4,638,627, Cl. 59-80.000.

Brunner, Peter: *See*—

Post, Hans; Ratzel, Dieter; Brunner, Peter; and Knuttel, Bertold, 4,694,249, Cl. 324-309.000.

Serio, Charles M.; and Brunner, Peter, 4,651,378, Cl. 15-49.00R.

Brunner, Rudolf; and Oberhoffner, Gerhard, to Agfa-Gevaert Aktiengesellschaft. Transport roller arrangement for tape or sheet material of various widths. 4,667,863, 5-26-87, Cl. 226-1.000.

Brunner, Rudolf, to Heilmeier & Weinlein Fabrik fur Oel-Hydraulic GmbH & Co. KG. Hydraulic control device. 4,711,155, 12-8-87, Cl. 91-446.000.

Brunner, Timothy A., to Perkin-Elmer Corporation, The. Apparatus for measuring overlay error. 4,703,434, 10-27-87, Cl. 364-488.000.

Brunner, Travis J. Downhole safety valve operable by differential pressure. 4,714,116, 12-22-87, Cl. 166-321.000.

Brunnett, Carl J.: *See*—

Kerber, Michael M.; and Brunnett, Carl J., 4,674,045, Cl. 364-414.000.

Brunnmueller, Fritz; and Kroener, Michael, to BASF Aktiengesellschaft. Preparation of 2-aminopyrazines and pyrazines. 4,687,848, 8-18-87, Cl. 544-336.000.

Brunnmueller, Fritz: *See*—

Oehsen, Ubbo v.; Stecher, Karlheinz; Koehler, Waldemar; Mueller, Berthold; Brunnmueller, Fritz; and Schneider, Rolf, 4,693,877, Cl. 423-373.000.

Bruno, Carlo M.; Panarotto, Gianfranco; and Tofanelli, Adler, to CSELT-Centro Studi e Laboratori Telecomunicazioni S.p.A. System for bidirectional digital transmission with echo cancellation. 4,686,703, 8-11-87, Cl. 379-410.000.

Bruno, Carlo M.: *See*—

Gagliardi, Fabrizio; Bruno, Carlo M.; and Tofanelli, Adler, 4,675,885, Cl. 375-110.000.

Bruno, David J., Jr.: *See*—

Lee, William E., III; Bangel, James M.; White, Robert L.; and Bruno, David J., Jr., 4,645,679, Cl. 426-560.000.

Bruno, Delageniere: *See*—

Lissalde, Francois; Bruno, Delageniere; and Bruno, Ferrieu, 4,660,149, Cl. 364-477.000.

Bruno, Edward C. Produce bag with tie tails. 4,709,400, 11-24-87, Cl. 383-77.000.

Bruno, Ferrieu: *See*—

Lissalde, Francois; Bruno, Delageniere; and Bruno, Ferrieu, 4,660,149, Cl. 364-477.000.

Bruno, Gmur, to Gebruder Buhler AG. Method and apparatus for closing bags and a plant for bagging bulk materials. 4,704,845, 11-10-87, Cl. 53-482.000.

Bruno, John J.: *See*—

Jones, Gordon H.; Venuti, Michael C.; Alvarez, Robert; Bruno, John J.; and Pfister, Jurg R., 4,663,320, Cl. 514-212.000.

Bruno, Mario. Paper knife and staple puller head. 4,670,926, 6-9-87, Cl. 7-160.000.

Bruno, Richard; and Van Luyt, Balthasar A. G., to U.S. Philips Corporation. System for the line-wise compression of binary data of a picture field in a compression device, decompression device for use in such a system, and display device including such a decompression device. 4,707,729, 11-17-87, Cl. 358-13.000.

Bruno, Robert; Kipperman, Stuart R.; Mayer, Geoffrey R.; and Thomas, Michael, to Sherwood Medical Company. Enteral feeding devices. 4,713,064, 12-15-87, Cl. 604-257.000.

Brunova, Bohumila: *See—*
  Kuchar, Miroslav; Brunova, Bohumila; Grimova, Jaroslava; and Maturova, Eva, 4,683,331, Cl. 562-459.000.
Bruns, Engelbert: *See—*
  Walther, Norbert; Lucas, August; Lorenz, Kurt; and Bruns, Engelbert, 4,690,160, Cl. 134-181.000.
Bruns, Helmut; Freihert, Artur; and Kolley, Arnold, to Erno Raumfahrttechnik GmbH. Fuel collection in surface tension fuel tanks. 4,705,546, 11-10-87, Cl. 55-182.000.
Bruns, John H. Modular multi-storage building. 4,640,214, 2-3-87, Cl. 114-263.000.
Bruns, Klaus: *See—*
  Schaper, Ulf A.; Bloesl, Siegfried; and Bruns, Klaus, 4,661,286, Cl. 252-522.00R.
Bruns, Robert F., to Warner-Lambert Company. Adenosine receptor assay and kit. 4,705,758, 11-10-87, Cl. 436-504.000.
Brunsch, Arwed; Steiner, Werner; and Trippel, Gerhard, to International Business Machines Corporation. Method of determining dispersion, particle density or viscosity of resin/solvent mixture containing magnetic particles. 4,651,092, 3-17-87, Cl. 324-204.000.
Brunsch, Klaus; Sappl, Peter; and Bongers, Bernd, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Structural component for transmitting torque. 4,634,399, 1-6-87, Cl. 464-87.000.
Brunsing, Thomas P.; Fisk, Allan T.; Spector, Joseph; and Tallone, Thomas, to Electric Power Research Institute, Inc. Pole hole digger with percussive core drilling. 4,671,367, 6-9-87, Cl. 175-58.000.
Brunson, Welton K.: *See—*
  Hubbard, Vance M.; and Brunson, Welton K., 4,635,628, Cl. 128-201.170.
  Hubbard, Vance M.; and Brunson, Welton K., 4,673,084, Cl. 206-438.000.
  Hubbard, Vance M.; Brunson, Welton K.; and Caldwell, Darrell S., 4,688,572, Cl. 128-402.000.
Brunsting, Albert, to Miles Laboratories, Inc. Simultaneous multiple wavelength photometer. 4,657,398, 4-14-87, Cl. 356-418.000.
Brunswick Corporation: *See—*
  Affinito, John, 4,701,761, Cl. 342-1.000.
  Amaya, German, 4,708,741, Cl. 75-251.000.
  Anderson, Robert D.; Estes, John D.; Carta, John; and Page, Gilbert J., 4,707,953, Cl. 52-63.000.
  Bloemers, James L., 4,648,254, Cl. 70-232.000.
  Boda, James C., 4,650,429, Cl. 440-87.000.
  Burns, Richard L.; and Petcavich, Robert J., 4,686,127, Cl. 428-40.000.
  Burns, Richard L.; and Petcavich, Robert J., 4,686,141, Cl. 428-344.000.
  Carpenter, Robert L., 4,674,698, Cl. 242-84.20A.
  Carpenter, Robert L.; and Swisher, Steven L., 4,676,450, Cl. 242-84.20G.
  Councilman, Richard R., 4,650,134, Cl. 242-84.20G.
  Darden, Dennis W., 4,664,330, Cl. 242-84.50A.
  Dawson, James W., 4,644,680, Cl. 43-18.100.
  Entringer, David C.; and Neisen, Gerald F., 4,634,391, Cl. 440-75.000.
  Fenrich, William G., 4,687,449, Cl. 440-61.000.
  Frazzell, Michael E.; and Karls, Michael A., 4,636,175, Cl. 440-88.000.
  Frazzell, Michael E.; and Snyder, Richard H., 4,642,057, Cl. 440-52.000.
  Freund, Michael A.; Jennerjahn, Paul H.; and Kusche, David W., 4,668,199, Cl. 440-89.000.
  Gray, Charles F., Jr.; Meisenburg, Gary L.; and Zemlicka, Alvin, 4,679,682, Cl. 192-21.000.
  Hensel, Robert J., 4,699,109, Cl. 123-458.000.
  Hensel, Robert J.; Wagner, James L.; Hundertmark, James M.; Sheridan, Stephen E.; and Heidel, David W., 4,702,202, Cl. 123-52.00M.
  Hundertmark, James M., 4,674,449, Cl. 123-41.080.
  Kruncos, Francis E., 4,687,991, Cl. 324-169.000.
  Ohler, Steven W., 4,640,470, Cl. 242-84.20A.
  Schiek, James M., 4,650,430, Cl. 440-88.000.
  Slattery, Gordon C., 4,637,800, Cl. 440-55.000.
  Staerzl, Richard E., 4,643,147, Cl. 123-357.000.
  Staerzl, Richard E., 4,667,637, Cl. 123-435.000.
  Staerzl, Richard E., 4,691,680, Cl. 123-491.000.
  Staerzl, Richard E., 4,711,219, Cl. 123-494.000.
  Staerzl, Richard E., 4,712,527, Cl. 123-418.000.
  Staerzl, Richard E., 4,714,067, Cl. 123-494.000.
  Swisher, Steven L., 4,637,569, Cl. 242-84.20A.
  Swisher, Steven L., 4,695,009, Cl. 242-84.10R.
  Thomas, Dwight J., 4,664,801, Cl. 210-489.000.
  Thornber, Geoffrey, 4,636,749, Cl. 331-90.000.
  Tury, Keith A.; and Evans, Ronald D., 4,649,947, Cl. 135-97.000.
  Tury, Keith A.; and Evans, Ronald D., 4,667,692, Cl. 135-105.000.
Brunswick Manufacturing Co., Inc.: *See—*
  Hewson, Carl E., 4,683,890, Cl. 128-419.0PG.
Brunswick Valve & Control, Inc.: *See—*
  Abraham, William F., 4,712,441, Cl. 74-89.150.
Brunt, Keith D.; and Higton, Frederick R., to Boots Company Plc, The. Preserving agent and method of use thereof. 4,636,476, 1-13-87, Cl. 436-23.000.
Brunton Company, The: *See—*
  Kramer, Melvin G.; and Iden, Marlin D., 4,700,490, Cl. 33-355.00D.
Brunton, Loren F. M-16 rifle, improved to more safely accomodate left handed shooters. 4,691,615, 9-8-87, Cl. 89-33.400.
Brupbacher, John M.; Christodoulou, Leontios; and Nagle, Dennis C., to Martin Marietta Corporation. Process for forming metal-ceram composites. 4,710,348, 12-1-87, Cl. 420-129.000.
Brusch, Donald W.: *See—*
  Wachsmuth, Robert H.; and Brusch, Donald W., 4,710,128, Cl. 434-46.000.
Bruse, Kurt; Jurgens, Gerhard; and Becker, Herbert, to Brose Fahrzeugteile GmbH & Co. KG, and Bruse, Kurt. Installation for the adjustment of the height of a headrest of a vehicle seat. 4,645,2 2-24-87, Cl. 280-808.000.
Bruser, Lewis; and Swap, Alfred G., to Puget Sound Power and Ligh Company. Electrical ground rod installation device. 4,688,9 8-25-87, Cl. 405-303.000.
Brusewitz, Gerhard, to Madaus & Co. Petri dish. 4,675,298, 6-23-87, Cl. 435-298.000.
Brusewitz, Gerhard; and Sieck, Reinhard, to Madaus & Co. Device fo the determination of micro-organisms. 4,690,896, 9-1-87, Cl. 435-296.000.
Brush Fusegear Limited: *See—*
  Mee, Geoffrey R.; and Rosen, Philip, 4,636,764, Cl. 337-169.00
Brush, John D., Jr.; and Chase, David O., to John D. Brush & Co., In Vapor-sealed insulation system for fire resistant safe. 4,688,4 8-25-87, Cl. 109-65.000.
Brush, Robert W., Sr.: *See—*
  Gallusser, David O.; Brush, Robert W., Sr.; and MacAvoy, Davi W., 4,678,260, Cl. 439-607.000.
  Hillis, Frank M.; and Brush, Robert W., Sr., 4,655,532, Cl. 16 143.00R.
Brush Wellman Inc.: *See—*
  Guha, Amitava, 4,657,601, Cl. 148-12.70C.
Brushaber, Donald. Anti-theft device for marine propellers. 4,645,42 2-24-87, Cl. 416-93.00A.
Brusnikin, Arkady F.: *See—*
  Maximov, Gennady K.; Brusnikin, Arkady F.; Belonosov, Vladim I.; Popova, Roza A.; Fux, Vladimir S.; Kagan, Vladimir M.; Uralskaya, Silvia L.; and Orlova, Nadezhda P., 4,702,068, Cl. 57-417.000.
Bruso, Loran H., to Warner-Lambert Company. Disposable steriliza tion biological test pack. 4,636,472, 1-13-87, Cl. 435-287.000.
Bruso, Loran H., to Warner-Lambert Company. Adjustable test pack 4,692,307, 9-8-87, Cl. 422-58.000.
Brussee, Warren T.: *See—*
  Lemmers, Robert E.; Safran, Frank; and Brussee, Warren T., 4,641,966, Cl. 356-237.000.
Brussels, Jay D.: *See—*
  Clark, Robert A., Jr.; and Brussels, Jay D., 4,672,661, Cl. 379-144.000.
Brussing, Bernd: *See—*
  Zeischegg, Walter; and Brussing, Bernd, 4,663,884, Cl. 47-59.00
Brust, Hans-Detlef; and Otto, Johann, to Siemens Aktiengesellschaft. Circuit for preventing burn-in spots on the picture screen of a visu display. 4,677,351, 6-30-87, Cl. 315-386.000.
Brust, Hans-Detlef, to Siemens Aktiengesellschaft. Method and apparatus for spectral analysis of a signal at a measuring point. 4,678,9 7-7-87, Cl. 324-158.00R.
Brust, Hans-Detlef; and Otto, Johann, to Siemens Aktiengesellschaft. Method for the determination of points on a specimen carrying specific signal frequency by use of a scanning microscope. 4,689,5 8-25-87, Cl. 324-158.00R.
Brustle, Klaus: *See—*
  Rock, Erich; and Brustle, Klaus, 4,641,394, Cl. 16-302.000.
  Rock, Erich; and Brustle, Klaus, 4,641,396, Cl. 16-370.000.
  Rock, Erich; Rupprechter, Helmut; and Brustle, Klaus, 4,654,9 Cl. 16-382.000.
  Rock, Erich; Rupprechter, Helmut; and Brustle, Klaus, 4,680,3 Cl. 16-241.000.
  Rock, Erich; Rupprechter, Helmut; and Brustle, Klaus, 4,691,40 Cl. 16-241.000.
Bruton, Billy R., to Axelson, Inc. Wireline cutting actuator and valve. 4,671,312, 6-9-87, Cl. 137-315.000.
Bruton, Christopher J.: *See—*
  Bingham, Alistair H. A.; Atkinson, Anthony; and Bruton, Christopher J., 4,663,285, Cl. 435-172.300.
Brutosky, Scott A., to AMP Incorporated. Tray for card edge connectors. 4,671,407, 6-9-87, Cl. 206-332.000.
Bruttel, Beat: *See—*
  Fortsch, Bruno; Rabassa, Alberto; and Bruttel, Beat, 4,689,048, C 8-524.000.
Bruzzese, Vincent J.; and Dohnert, Mario, Jr. Head restraint for back boards. 4,640,275, 2-3-87, Cl. 128-133.000.
Bruzzone, Mario; Gordini, Silvano; and Wyllie, Ken, to Enichem Elastomeri S.p.A. Manufacture of butyl rubber. 4,714,747, 12-22-8 Cl. 526-64.000.
Bryan, Barry L.; Druckerman, Martin; McDowell, Allen W.; Schne der, Ira H.; and Newkirk, Gary L., to International Business Machines Corporation. Personal computer attachment for host system display station. 4,641,262, 2-3-87, Cl. 364-900.000.
Bryan, Bobby H.: *See—*
  Golay, Kenneth W.; and Bryan, Bobby H., 4,685,846, C 410-49.000.
Bryan, Carney J.: *See—*
  Kellogg, Robert L.; Zimmerman, Roger W.; and Bryan, Carney J., 4,708,073, Cl. 112-262.300.
Bryan, Charles E.: *See—*
  Nixon, William C.; and Bryan, Charles E., 4,664,478, C 350-336.000.

Bryan, Charles F., Jr., to United States of America, National Aeronautics and Space Administration. Lightning discharge protection rod. 4,698,723, 10-6-87, Cl. 361-218.000.

Bryan, Dennis P., and Rowe, John B., to International Business Machines Corp. Automatic fault location system for electronic devices. 4,713,815, 12-15-87, Cl. 371-29.000.

Bryan, George. Combined fishing rod and fishing line vibrator. 4,700,501, 10-20-87, Cl. 43-19.200.

Bryan, Horace; and Giardina, Nicholas. Attachment for smoke alarms. 4,679,037, 7-7-87, Cl. 340-693.000.

Bryan, James S.; and Meadows, Roger D., to Dayco Products, Inc. Method of making a railroad track insulator unit. 4,679,293, 7-14-87, Cl. 29-450.000.

Bryan, James S.: *See*—
Meadows, Roger D.; Rush, James B.; and Bryan, James S., 4,648,628, Cl. 285-24.000.
Rush, James B.; Bryan, James S.; Gunter, Jonas L.; Dillard, Guy W.; Meadows, Roger D.; and Henry, Pearson W., 4,637,638, Cl. 285-158.000.
Rush, James B.; Bryan, James S.; Gunter, Jonas L.; Dillard, Guy W.; Meadows, Roger D.; and Henry, Pearson W., 4,654,942, Cl. 29-157.00T.

Bryan, James W. Polarized carrier modulation. 4,680,751, 7-14-87, Cl. 370-78.000.

Bryan, John N., to Dresser Industries, Inc. Method and apparatus for generating a display of well logging measurements. 4,686,625, 8-11-87, Cl. 364-422.000.

Bryan, Leonard B.; Rouse, Geoffrey O.; and McDonald, Hector, to Deepwater Oil Services Limited of Unit Ten. Cutting and recovery tool. 4,703,802, 11-3-87, Cl. 166-298.000.

Bryan, Paul J., to Du Pont de Nemours, E. I. and Company. Shock-resistant delay detonator. 4,696,231, 9-29-87, Cl. 102-202.500.

Bryan, Philip S.; and Herz, Arthur H., to Eastman Kodak Company. Silver halide photosensitive material. 4,695,534, 9-22-87, Cl. 430-569.000.

Bryan, Philip S.; and Herz, Arthur H., to Eastman Kodak Company. Silver halide photosensitive material. 4,695,535, 9-22-87, Cl. 430-569.000.

Bryan, Philip S.; and Herz, Arthur H., to Eastman Kodak Company. Silver halide photosensitive material. 4,713,322, 12-15-87, Cl. 430-569.000.

Bryan, Thomas T.; and Anderson, Harvey L., to Minnesota Mining and Manufacturing Company. Hydrophilic silicones. 4,657,959, 4-14-87, Cl. 524-266.000.

Bryan, Thomas T.: *See*—
Aasen, Steven M.; and Bryan, Thomas T., 4,691,039, Cl. 556-446.000.

Bryan, William J., to Westinghouse Electric Corp. Wire mesh debris trap for a fuel assembly. 4,664,880, 5-12-87, Cl. 376-352.000.

Bryans, Alexander C.: *See*—
Blair, Lawrence W.; and Bryans, Alexander C., 4,653,976, Cl. 415-1.000.

Bryant, Bernard J. Antibody method for lowering risk of susceptibility to HLA-associated diseases in future human generations. 4,643,967, 2-17-87, Cl. 435-7.000.

Bryant, Cal L.; Parrish, Charles A.; and Griffin, B. Franklin, Jr., to New Holland Inc. Semi-automatic baler control and indicator system. 4,674,403, 6-23-87, Cl. 100-4.000.

Bryant, Collin J.; and Mitsopoulos, Tom, to Valvoline Oil & Chemicals Ltd. Saturated linear polyester resin composition suitable for coating a metal for anti-corrosion and/or decorative purposes. 4,686,275, 8-11-87, Cl. 528-295.500.

Bryant, David R.; and Galley, Richard A., to Union Carbide Corp. Process for removing triorganophosphine from an organic liquid. 4,710,587, 12-1-87, Cl. 568-454.000.

Bryant, David R.: *See*—
Abatjoglou, Anthony G.; and Bryant, David R., 4,716,250, Cl. 568-454.000.
Billig, Ernst; Abatjoglou, Anthony G.; and Bryant, David R., 4,668,651, Cl. 502-158.000.

Bryant, Donald E.: *See*—
Smith, Raymond H.; and Bryant, Donald E., 4,671,745, Cl. 417-419.000.

Bryant, Donald L., to Rockwell International Corporation. Reducing coupling. 4,648,631, 3-10-87, Cl. 285-177.000.

Bryant, John D.: *See*—
Roger, Stephen J.; Bryant, John D.; and Wong, Philip, 4,636,623, Cl. 250-223.00R.

Bryant, Lynn A.; Roberts, Durward T., Jr.; Beckman, Joseph A.; Turewell, Joseph H.; and Cetnar, James F., to Firestone Tire & Rubber Company, The. Polymer transfer decals comprising saturated elastomers. 4,684,420, 8-4-87, Cl. 156-116.000.

Bryant, Lynn A.: *See*—
Shurman, Louis W.; and Bryant, Lynn A., 4,684,431, Cl. 156-344.100.
Shurman, Louis W.; and Bryant, Lynn A., 4,699,193, Cl. 152-523.000.

Bryant, Marga M.: *See*—
Schulte, Rudolf R.; East, Gary P.; Bryant, Marga M.; and Heindl, Alfons, 4,636,194, Cl. 604-9.000.

Bryant, Michael J.; Attenborough, Frank R.; Sykes, Christopher G.; and Cameron, Neil W., to Britoil Public Limited Company. Mechanical spacer for towed acoustic array. 4,638,469, 1-20-87, Cl. 367-154.000.

Bryant, Peter B. Mulcher attachment. 4,686,819, 8-18-87, Cl. 56-295.000.

Bryant, Peter E. Connector for panel edges. 4,662,138, 5-5-87, Cl. 52-282.000.

Bryant, Robert L.: *See*—
Parker, John A.; Feldman, Rubin; and Bryant, Robert L., 4,687,651, Cl. 423-315.000.
Parker, John A.; Feldman, Rubin; and Bryant, Robert L., 4,687,785, Cl. 521-106.000.

Bryant, Ronald O.; Millen, William L.; and Swander, Robert E., to Celanese Corporation. Localized liquid additive applicator system for continuous cylindrical product. 4,655,230, 4-7-87, Cl. 131-343.000.

Bryant, Stephen M.; and Cole, Lanier G., to United States of America, Air Force. Gain restoration after doppler filtering. 4,672,380, 6-9-87, Cl. 342-92.000.

Bryant, Stephen M.; and Speir, Donald J., to United States of America, Air Force. Adaptive fast Fourier transform weighting technique to increase small target sensitivity. 4,680,589, 7-14-87, Cl. 342-196.000.

Bryant, Stewart F.; Baker, Stephen J.; and Cook, Richard A., to U.S. Philips Corporation. Computer aided design method and apparatus comprising means for automatically generating pin-to-pin interconnection lists between respective discrete electrical component circuits. 4,638,442, 1-20-87, Cl. 364-489.000.

Bryant, Stewart F., to U.S. Philips Corporation. Electrical circuit arrangement and electrical circuit unit for use in such an electrical circuit arrangement. 4,642,473, 2-10-87, Cl. 307-38.000.

Bryant, Timothy E.: *See*—
Labinger, Richard L.; Tinnerino, Natale F.; and Bryant, Timothy E., 4,707,734, Cl. 358-106.000.

Bryant, Walter M., III, to Du Pont de Nemours, E. I., and Company. Dealkylation of opioid ethers. 4,667,037, 5-19-87, Cl. 546-44.000.

Bryce, J. Robert, to Crane Electronics, Inc. Electrical connector. 4,655,517, 4-7-87, Cl. 339-17.0LC.

Bryce, J. Robert, to Crane Electronics, Inc. Multi-row modular electrical connector. 4,682,839, 7-28-87, Cl. 439-598.000.

Bryce, James L. Rear seal installation guide device. 4,662,050, 5-5-87, Cl. 29-281.500.

Bryce, Kenneth L.: *See*—
Neill, Paul L.; Bryce, Kenneth L.; and Lancaster, Gerald M., 4,666,988, Cl. 525-196.000.

Bryce, William W.: *See*—
Russell, William F.; and Bryce, William W., 4,663,744, Cl. 367-76.000.

Brychta, Ondrej; and Zabrodsky, Vladimir, to Konstruktiva Trencin, narodny podnik. Multinozzle generator for high frequency nozzle ventilation of lungs. 4,681,100, 7-21-87, Cl. 128-204.250.

Brychta, Ondrej; Tlucko, Jozef; Magdolen, Viktor; Brostik, Miroslav; and Klimacek, Dusan, to Konstructa Trencin, narodny podnik. Anaesthetical circuit with reverse inhalation equipped with an injector of escaped anaesthetics. 4,691,700, 9-8-87, Cl. 128-200.210.

Brychta, Peter; and Wiechers, Klaus-Peter, to Bergwerksverband GmbH. Tension regulator for a chain drive. 4,657,131, 4-14-87, Cl. 198-810.000.

Bryer, Jack, to Motter Printing Press Co. Controlled deflection roller. 4,637,109, 1-20-87, Cl. 29-116.0AD.

Bryer, Philip, to Xebec Development Partners, Ltd. Apparatus for repositioning a transducer in the absence of electrical current to a drive system. 4,686,595, 8-11-87, Cl. 360-106.000.

Bryg, William R.: *See*—
Worley, William S., Jr.; Bryg, William R.; and Baum, Allen, 4,713,755, Cl. 364-200.000.

Bryk, Stephen A.: *See*—
Kidaloski, Raymond G.; Olinger, Harry S.; and Bryk, Stephen A., 4,685,426, Cl. 122-214.000.

Brym, Stanley J.: *See*—
Borsari, Allen S.; Brym, Stanley J.; Markure, Laura A.; and Arpino, Ronald G., 4,692,589, Cl. 219-251.000.
Valbona, Bruno M.; Satkunas, Bruno; and Brym, Stanley J., 4,645,352, Cl. 366-349.000.

Bryn, Kristian: *See*—
Braathen, Jan; and Bryn, Kristian, 4,648,303, Cl. 84-306.000.

Bryson, Charles E., III; and Jones, Douglas L., to Kevex Corporation. Electron spectroscopy system for chemical analysis of electrically isolated specimens. 4,680,467, 7-14-87, Cl. 250-305.000.

Bryson, Eugene: *See*—
Sharpe, Murem S.; Bryson, Eugene; Manduley, Flavio; Riordan, Eben M., II; and Flesser, Brian D., 4,713,761, Cl. 364-406.000.

Bryson, John D., to Vaportek, Inc. Air freshener dispensing apparatus. 4,664,312, 5-12-87, Cl. 239-59.000.

Bryson, Michael A., to Electro-Voice, Inc. Microphone and acoustic equalizer therefor. 4,646,873, 3-3-87, Cl. 181-160.000.

Bryson, Michael A.: *See*—
Watson, Alan R.; and Bryson, Michael A., 4,685,137, Cl. 381-174.000.

Bryson, Neil B., to Alcan International Limited. Device for collecting molten metal break-outs in casting of light metals. 4,643,242, 2-17-87, Cl. 164-153.000.

Bryson, Neil B.; Auchterlonie, David T. T.; LeBlanc, Guy; and Newberry, Vincent J., to Alcan International Limited. Modular mould system and method for continuous casting of metal ingots. 4,709,744, 12-1-87, Cl. 164-472.000.

Bryson, Robert M., to Hollister Incorporated. Ostomy appliance and method of making. 4,710,182, 12-1-87, Cl. 604-339.000.

Bryson, Trudy J.: *See*—
Coburn, Joseph W., Jr.; and Bryson, Trudy J., 4,656,072, Cl. 428-40.000.

Brzezicki, Joseph M.; and Babuder, Gerald A., to Cajon Company. Coded coupling. 4,665,960, 5-19-87, Cl. 141-384.000.

Brzezinski, Denis R.: *See*—

Cummings, Ralph E.; and Brzezinski, Denis R., 4,683,678, Cl. 49-426.000.

Brzezinski, Ryszard J.; and Kelley, William J., to Mattel, Inc. Toy doll figure for displaying colors. 4,655,726, 4-7-87, Cl. 446-268.000.

Brzozowski, Steven J.: *See*—

Miller, Russell S.; and Brzozowski, Steven J., 4,667,486, Cl. 62-514.00R.

Miller, Russell S.; and Brzozowski, Steven J., 4,667,487, Cl. 62-514.00R.

BS&B Safety Systems, Inc.: *See*—

Short, Edward H., III, 4,657,157, Cl. 220-89.00A.

Short, Edward H., III, 4,706,698, Cl. 137-68.100.

BS Smogless S.p.A.: *See*—

Cominetta, Gilberto; and Oggionni, Claudio, 4,634,534, Cl. 210-150.000.

Bsales, Alexander: *See*—

November, Daniel; Lee, Ting C.; and Bsales, Alexander, 4,668,362, Cl. 204-182.800.

BSD Corporation: *See*—

Turner, Paul F., 4,633,875, Cl. 128-422.000.

BSD Medical Corporation: *See*—

Turner, Paul F., 4,638,813, Cl. 128-804.000.

Turner, Paul F., 4,658,836, Cl. 128-804.000.

Turner, Paul F., 4,669,475, Cl. 128-399.000.

Turner, Paul F., 4,672,980, Cl. 128-804.000.

Turner, Paul F., 4,712,559, Cl. 128-422.000.

Bseisu, Amjad A.; Jan, Yih-Min; and Schuh, Frank J., to Atlantic Richfield Company. Measuring drillstem loading and behavior. 4,715,451, 12-29-87, Cl. 175-40.000.

BSG International Plc.: *See*—

Cunningham, Douglas J., 4,655,468, Cl. 280-154.50R.

BSG-Schalttechnik GmbH & Co. KG: *See*—

Lohner, Martin; and Prestel, Fritz, 4,682,142, Cl. 338-172.000.

BSH Electronics, Ltd.: *See*—

Kropielnicki, Jerzy J.; Easter, Brian; and Last, James D., 4,654,669, Cl. 343-704.000.

bso Steuerungstechnik GmbH: *See*—

Gibas, Christoph, 4,677,410, Cl. 335-262.000.

Morsch, Joachim; and Heidelberger, Walter, 4,656,461, Cl. 340-365.00C.

BTA Boden-Technik AG: *See*—

Rollin, Carl; and Pufenacht, Hanspeter, 4,683,690, Cl. 52-126.200.

BTL Inc.: *See*—

Warnes, Paul R.; Henderson, James T.; and Leja, John P., 4,704,479, Cl. 568-390.000.

BTR PLC: *See*—

Hawkins, James M., 4,673,366, Cl. 441-90.000.

BTU Engineering Corporation: *See*—

Fisher, Daniel J., Jr., 4,701,096, Cl. 414-416.000.

Landis, Donald; and Fabricius, John H., 4,672,997, Cl. 137-554.000.

Lucey, Willard J.; and Waugh, Arthur, 4,687,911, Cl. 219-553.000.

Buback, John, to Massey-Ferguson Inc. Multiratio constant mesh change speed transmission. 4,640,146, 2-3-87, Cl. 74-359.000.

Bubam, Hans-Georg; Heider, Lothar; Biederbeck, Uwe; and Stanger, Bernd, to BASF Aktiengesellschaft. Preparation of stable aqueous polymer dispersions which contain an alkenyl-aromatic compound as copolymerized units. 4,661,557, 4-28-87, Cl. 524-770.000.

Bubat, Alfred: *See*—

Haubennestel, Karlheinz; Breil, Daniela; Bubat, Alfred; and Spratte, Werner, 4,696,761, Cl. 252-358.000.

Bubb, Howard G.: *See*—

Flanagin, Stephen D.; Bubb, Howard G.; and Scantlin, John R., 4,674,082, Cl. 370-60.000.

Bubeck, Walter: *See*—

Voss, Gunther M.; Glasel, Volker I.; Gruber, Peter; and Bubeck, Walter, 4,707,309, Cl. 264-12.000.

Bubendorff, Richard. Rolling shutter. 4,683,932, 8-4-87, Cl. 160-133.000.

Bubernak, John: *See*—

Phillips, Harold B., and Bubernak, John, 4,676,016, Cl. 40-617.000.

Bubik, Leslie, to Vulcan Equipment Company, Ltd. Towing apparatus. 4,637,623, 1-20-87, Cl. 280-402.000.

Bubley, Henry J., to American Screen Printing Equipment Company. UV curing apparatus. 4,646,446, 3-3-87, Cl. 34-4.000.

Bubley, Henry J.; and Iaccino, Alex, to American Screen Printing Equipment Company. Manually operated screen printing apparatus. 4,648,317, 3-10-87, Cl. 101-123.000.

Bubnis, Bernard P.: *See*—

Pacey, Gilbert E.; and Bubnis, Bernard P., 4,711,853, Cl. 436-74.000.

Bubon, Frank: *See*—

Blumenfeld, John F.; and Bubon, Frank, 4,680,051, Cl. 65-346.000.

Bucaille, Alain; and Robine, Gerard, to Bucaille, Alain. Storage element for leisure equipment. 4,666,220, 5-19-87, Cl. 312-198.000.

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Bucaro, Russell J., Jr. Device for home detection of cervical and vaginal cancer. 4,633,886, 1-6-87, Cl. 128-749.000.

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Berrettini, Bruce J.; Bucci, Donald P.; and Hollopeter, Roy D., 4,649,968, Cl. 141-95.000.

Bucci, George H., to Whitehead Engineered Products, Inc. Fuel routing systems for fuel-injected engines. 4,683,864, 8-4-87, Cl. 123-575.000.

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Bucefari, Massimo; and Rubechini, Roberto, to I.C.M. S.p.A. Italian Costruzioni Metalmeccaniche; and T.E.M. s.r.l. Tecnologie Ele troniche e Meccaniche. Device for the automatic control of the fee of a tubular wire, in particular made of precious material in goldsmith industry. 4,644,175, 2-17-87, Cl. 250-561.000.

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Buchaeckert, Helmut: *See*—

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Buchan, Ian A.; and Heath, Richard D., to Smith and Nephew Assoc ated Companies p.l.c. Medical device, its preparation and u 4,688,562, 8-25-87, Cl. 128-132.00R.

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Buchanan, Alan S.: *See*—

Harvey, Kaye F.; Johns, Reginald B.; Buchanan, Alan S.; and Ca David A., 4,701,184, Cl. 44-10.00D.

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Kruckemeyer, William C.; Buchanan, Harry C., Jr.; and Fann Wayne V., 4,644,200, Cl. 310-43.000.

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Sullivan, Robert W.; Holder, Tommie J.; and Buchanan, Max F. 4,648,358, Cl. 123-43.00A.

Buchanan, Michael S.: *See*—

Davis, Gregory P.; and Buchanan, Michael S., 4,683,246, C 521-54.000.

Buchanan, Robert L.; and Dull, Henry F., Jr. Novel rubber connecto and other rubber parts for use in human infusion sets and rubb 4,684,672, 8-4-87, Cl. 523-100.000.

Buchanan, Sabern D.; and Faulkner, Stephen L., to Unit Rig & Equi ment Company. Use of SCR's in extended retarding. 4,698, 10-6-87, Cl. 318-87.000.

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Buchardt, Ole, to pHarma-medica a-s. Process for the isolation a purification of podophyllotoxin. 4,680,399, 7-14-87, Cl. 546-13

Buchas, Gerald L., to Arthur G. Russell Company, Incorporated, Th System for displaying alphanumeric messages. 4,660,031, 4-21-87, C 340-792.000.

Buchberger, Gerhard: *See*—

Felcht, Utz-Hellmuth; and Buchberger, Gerhard, 4,650, C 556-90.000.

Buchbjerg, Ernst; and Madsen, Rud F., to Aktieselskabet de Dansk Sukkerfabrikker. Production of improved protein isolate deriv from seeds of a grain legume. 4,677,065, 6-30-87, Cl. 435-68.000.

Buchegger, Rudolf; Hirschmanner, Franz; and Heyer, Peter, to Voe Alpine Aktiengesellschaft. Cooler-furnace unit. 4,703,640, 11-3-87, C 72-128.000.

Buchel, Karl H.; Kraatz, Udo; Stetter, Jorg; Reinecke, Paul; and Bra des, Wilhelm, to Bayer Aktiengesellschaft. Substituted azolylalk pyridinyl ethers. 4,659,723, 4-21-87, Cl. 514-341.000.

Buchel, Karl H.: *See*—

Gajowski, Jan; Regel, Erik; Buchel, Karl H.; Brandes, Wilhe and Reinecke, Paul, 4,657,920, Cl. 514-365.000.

Holmwood, Graham; Kramer, Wolfgang; Buchel, Karl H.; Re necke, Paul; and Brandes, Wilhelm, 4,645,767, Cl. 514-383.00

Holmwood, Graham; Buchel, Karl H.; Plempel, Manfred; an Haller, Ingo, 4,652,579, Cl. 514-383.000.

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Kramer, Wolfgang; Buchel, Karl H.; Holmwood, Graham; Reg Erik; Reinecke, Paul; and Brandes, Wilhelm, 4,639,462, C 514-383.000.

Kramer, Wolfgang; Buchel, Karl H.; Frohberger, Paul-Ern Brandes, Wilhelm; and Lurssen, Klaus, 4,711,657, Cl. 71-92.00

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Reinehr, Ulrich; Buchel, Karl H.; Jager, Gerhard; Plempel, Manfred; and Radt, Walter, 4,670,336, Cl. 428-359.000.

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Schmid, Alfred, 4,679,601, Cl. 141-4.000.

cher, Hans; Heinrich, Richard; Hermann, Waldemar; and Seffler, Hans-Werner, to KACO GmbH & Co. Ring-like radial shaft-sealing element. 4,650,196, 3-17-87, Cl. 277-152.000.

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her, Heinz, to Metronic Electronic GmbH. Massage apparatus. 660,548, 4-28-87, Cl. 128-33.000.

her, Jakob, to M.A.N.-B&W Diesel GmbH. Supercharging system r an internal combustion engine. 4,696,165, 9-29-87, Cl. 60-609.000.

her, James D., II, to Zytec Corporation. Switching power supply th automatic power factor correction. 4,683,529, 7-28-87, Cl. -44.000.

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Melcarek, Andreas; and Buchholz, Karl-Heinz, 4,676,173, Cl. 105-209.000.

Mohacsi, Sandor; Potel, Gerd; and Buchholz, Karl-Heinz, 4,665,835, Cl. 105-199.200.

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Zollrow, Rudolf; and Buchholz, Rainer, 4,697,691, Cl. 198-425.000.

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l, Andrew F. Automatic depth control system. 4,646,620, 3-3-87, 91-1.000.

l, Josef. Automotive valve actuation method. 4,706,619, 11-17-87, 123-90.110.

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er, Daniel C.; and Hale, Alan M., to Waltec Inc. Single lever ng valve. 4,662,399, 5-5-87, Cl. 137-625.170.

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er, Richard P., to General Electric Company. Locking fastener. 008, 2-17-87, Cl. 403-24.000.

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er, William J., to Whirlpool Corporation. Insulated cabinet manure. 4,715,512, 12-29-87, Cl. 220-465.000.

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Bard, Martin, 4,633,633, Cl. 52-384.000.

Buchtel, Dean H.: *See*—

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Buchwald, Hans: *See*—

Feist, Heinz-Rudi; Buchwald, Hans; Raschkowski, Boleslaus; and Rudolph, Werner, 4,659,493, Cl. 252-54.600.

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Kuhn, Falk; and Buck, Alfred, 4,688,401, Cl. 66-141.000.

Buck Chuck Company: *See*—

Norton, Jerry; and Burnham, Duane, 4,667,971, Cl. 279-121.000.

Buck, Daniel C., to Westinghouse Electric Corp. Magnetostatic-wave device. 4,679,012, 7-7-87, Cl. 333-161.000.

Buck, David. Back-up power tongs. 4,649,777, 3-17-87, Cl. 81-57.190.

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Buck, David A. Compensating jaw assembly for power tongs. 4,709,599, 12-1-87, Cl. 81-57.180.

Buck, Erik S., to United States of America, Air Force. Integral grid/cathode for vacuum tubes. 4,680,500, 7-14-87, Cl. 313-348.000.

Buck, Erwin: *See*—

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Buck, Gene. Apparatus for remote termination of the operation of a selected motor vehicle. 4,660,528, 4-28-87, Cl. 123-333.000.

Buck, Gerald F.; Roberts, John W.; and Sable, Steven, to Cambridge BioScience Corporation. Multiple step reagent delivery system. 4,689,204, 8-25-87, Cl. 422-100.000.

Buck, Gordon H. Inflated balloon tire for toy vehicles. 4,693,696, 9-15-87, Cl. 446-224.000.

Buck, Gretchen: *See*—

Davidson, Peter; and Buck, Gretchen, 4,665,572, Cl. 4-492.000.

Buck, Hermann; and Sommer, Werner, to Bielomatik Leuze GmbH & Co. Apparatus for forming folded stacks from a web. 4,673,382, 6-16-87, Cl. 493-359.000.

Buck, James C. Applicator brush for self service car wash. 4,674,904, 6-23-87, Cl. 401-268.000.

Buck, James R. Workholder. 4,699,389, 10-13-87, Cl. 279-52.000.

Buck, James R. Adjustable sidewardly located bar puller. 4,709,603, 12-1-87, Cl. 82-2.500.

Buck, Keith T.; Boeing, Anthony J.; and Dolfini, Joseph E., to Mallinckrodt, Inc. Method of producing benzaldehyde. 4,673,766, 6-16-87, Cl. 568-433.000.

Buck, Leslie J.: *See*—

Archer, Joel; Wassenhove, Denis V.; Pithouse, Kenneth B.; Buck, Leslie J.; Molyneax, Jeffrey P.; and Bradshaw, Peter S., 4,709,948, Cl. 285-381.000.

Buck, Manfred; and Hanstein, Friedrich, to Roehm GmbH Chemische Fabrik. Process for the production of a cupola shaped plastic piece with a flat rim. 4,663,094, 5-5-87, Cl. 264-25.000.

Buck, Manfred; Fehrle, Siegfried; Holzel, Martin; Kabatnik, Wilfried; Schmid, Wolfgang; and Wanner, Karl, to Robert Bosch GmbH. Power impact device, particalarly for fasteners. 4,693,407, 9-15-87, Cl. 227-109.000.

Buck, Rainer; Wessel, Wolf; and Stumpp, Gerhard, to Robert Bosch GmbH. System for control of the supercharging of an internal combustion engine. 4,686,830, 8-18-87, Cl. 60-603.000.

Buck, Robert; and Marhofer, Gerd. Electronic proximity sensor. 4,663,542, 5-5-87, Cl. 307-308.000.

Buck, Robert H.; Cowan, Kent G.; Doughty, John P.; and Marshall, Stephen E., to BDC Electronics. Combined smoke and gas detection apparatus. 4,688,021, 8-18-87, Cl. 340-521.000.

Buck, Wolfgang: *See*—

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Buckanin, Richard S., to Minnesota Mining and Manufacturing Company. Catalysts for the curing of a water-curable isocyanate-functional prepolymer. 4,705,840, 11-10-87, Cl. 528-53.000.

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Scholz, Matthew T.; Bartizal, Dennis C.; Reed, Katherine E.; Larson, Wayne K.; Ersfeld, Dean A.; Sandvig, Timothy C.; and Buckanin, Richard S., 4,667,661, Cl. 128-90.000.

Bucke, Christopher; and Cheetham, Peter S. J., to Tate & Lyle Public Limited Company. Fermentative production of isomaltulose. 4,670,387, 6-2-87, Cl. 435-97.000.

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Bucker, Heinrich: *See*—

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Buckeye International, Inc.: *See*—

Ferguson, Donald E.; and Germovsek, Dennis L., 4,653,162, Cl. 29-157.10R.

Buckholz, Frederick, to E. K. Mailing Machines Inc. Multiple rotary head collator and inserter. 4,649,691, 3-17-87, Cl. 53-53.000.

Buckhorn Material Handling Group Inc.: *See*—

Deaton, Thomas P.; and Stein, Eric D., 4,643,310, Cl. 206-506.000.

  Deaton, Thomas P.; and Daniels, Timothy R., 4,648,199, Cl. 43-100.000.
  Miller, Daniel R.; Daniels, Timothy R.; and Deaton, Thomas P., 4,648,200, Cl. 43-102.000.
  Miller, Daniel R.; and Deaton, Thomas P., 4,688,675, Cl. 206-508.000.
Bucking, Hans-Walter: *See—*
  May, Adolf; Bucking, Hans-Walter; and Schreiber, Manfred, 4,659,487, Cl. 252-8.800.
Buckingham, Arthur G.: *See—*
  Carnahan, Samuel U.; and Buckingham, Arthur G., 4,654,661, Cl. 340-825.570.
Buckingham, John S., to Minnesota Mining and Manufacturing Company. Device protective apparatus. 4,706,161, 11-10-87, Cl. 361-220.000.
Buckingham, Robin E.: *See—*
  Evans, John M.; Buckingham, Robin E.; and Willcocks, Kenneth, 4,644,070, Cl. 549-399.000.
  Evans, John M.; Buckingham, Robin E.; and Willcocks, Kenneth, 4,647,670, Cl. 548-525.000.
Buckland, Roy W. Shuttlecocks. 4,657,262, 4-14-87, Cl. 273-417.000.
Buckle, Brian L.; and Heesom, Neil C. Underwater buoyancy apparatus. 4,674,429, 6-23-87, Cl. 114-333.000.
Buckle, Brian L. Variable buoyancy apparatus. 4,677,931, 7-7-87, Cl. 114-331.000.
Buckle, Derek R.; and Carpenter, Stephen T., to Beecham Group p.l.c. Process for preparing benzopyrano (2,3-d) triazoles. 4,692,526, 9-8-87, Cl. 544-366.000.
Buckle, Derek R., to Beecham Group p.l.c. Arachidonic acid analogues, processes for their preparation and their use in medicine. 4,699,995, 10-13-87, Cl. 560-61.000.
Buckle, Derek R., to Beecham Group p.l.c. Novel compounds. 4,713,486, 12-15-87, Cl. 562-495.000.
Buckle, Ian G.; and Michael, John P., to DFC New Zealand Limited. Frictional energy absorbing device and/or methods of absorbing energy. 4,713,917, 12-22-87, Cl. 52-167.000.
Buckler, Robert T.; and Thompson, Stephan G., to Miles Laboratories, Inc. Disopyramide phenyl derivatives and labeled conjugates. 4,647,668, 3-3-87, Cl. 546-333.000.
Buckler, Robert T.; Burd, John F.; and Thompson, Stephan G., to Miles Laboratories, Inc. Immunogens, antibodies, labeled conjugates, and related derivatives for lidocaine and analogs thereof. 4,650,771, 3-17-87, Cl. 436-536.000.
Buckler, Robert T.; and Ward, Frederick E., to Miles Laboratories, Inc. Alpha-functionalized derivatives and labeled conjugates of procainamide and NAPA. 4,673,763, 6-16-87, Cl. 564-155.000.
Buckles, John J., to Mobil Oil Corporation. Method of improving CO_2 foam enhanced oil recovery process. 4,706,750, 11-17-87, Cl. 166-271.000.
Buckley, Alan; Choe, Eui W.; Stuetz, Dagobert E.; and Garito, Anthony F., to Celanese Corporation. High performance nonlinear optical substrates. 4,707,303, 11-17-87, Cl. 252-583.000.
Buckley, Alan: *See—*
  Choe, Eui W.; Buckley, Alan; and Garito, Anthony F., 4,640,800, Cl. 260-396.00N.
  Choe, Eui W.; Buckley, Alan; and Garito, Anthony F., 4,667,042, Cl. 548-300.000.
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  DeMartino, Ronald N.; Yoon, Hyun-Nam; Stamatoff, James B.; and Buckley, Alan, 4,694,066, Cl. 528-373.000.
Buckley, B. Shawn; Reichwein, Roy H.; Buckley, Edward M.; and Pinyan, James A., to Cochlea Corporation. Method of and apparatus for inspecting objects using multiple position detectors. 4,690,284, 9-1-87, Cl. 209-590.000.
Buckley, B. Shawn: *See—*
  Pinyan, James A.; and Buckley, B. Shawn, 4,677,852, Cl. 73-628.000.
Buckley, Dennis J.; Cleary, Arthur; and Winey, Calvin, to Advanced Color Technology, Inc. Method and apparatus for transporting and tensioning sheet materials in an ink jet printer. 4,707,712, 11-17-87, Cl. 346-136.000.
Buckley, Edward M.: *See—*
  Bernstein, David H.; Buckley, Edward M.; March, Roger W.; and Gusowski, Ronald L., deceased, 4,649,470, Cl. 364-200.000.
  Buckley, B. Shawn; Reichwein, Roy H.; Buckley, Edward M.; and Pinyan, James A., 4,690,284, Cl. 209-590.000.
Buckley, Helen R.; Largen, Michael T.; and Strockbine, Nancy A., to Temple University—of the Commonwealth System of Higher Education. Monoclonal antibody to *Candida albicans* cytoplasmic antigens and methods of preparing same. 4,670,382, 6-2-87, Cl. 435-7.000.
Buckley, James A. V., to Hayes Industrial Brake, Inc. Retraction type support assembly for a floating caliper disc brake. 4,715,479, 12-29-87, Cl. 188-71.800.
Buckley, John E., to Securistyle Limited. Friction supported stays for windows. 4,689,852, 9-1-87, Cl. 16-341.000.
Buckley, John J.: *See—*
  Altoz, Frank E.; and Buckley, John J., 4,674,704, Cl. 244-1.00R.
Buckley, John T., to Holland Hitch Company. Fifth wheel. 4,659,101, 4-21-87, Cl. 280-434.000.
Buckley, Keith; Prest, Colin T.; and Wilkinson, Paul, to Mars G. B. Limited. Structured food products and process. 4,707,375, 11-17-87, Cl. 426-578.000.
Buckley, Mary C. Blouse for cardiac patients. 4,698,848, 10-13-87, Cl. 2-114.000.
Buckley, Richard A., to Rimrock Corporation. Reciprocator for die-casting machine. 4,635,493, 1-13-87, Cl. 74-99.00R.
Buckley, Thomas F., to Chevron Research Company. Lubricant compositions containing modified succinimides. 4,664,827, 5-12-87, Cl. 252-49.600.
Buckley, Thomas F., to Chevron Research Company. Modified succinimides (IX). 4,695,391, 9-22-87, Cl. 252-51.50A.
Buckley, Thomas F., to Chevron Research Company. Modified succinimides (IX). 4,710,201, 12-1-87, Cl. 44-63.000.
Buckley, Thomas F., III; and Wollenberg, Robert H., to Chevron Research Company. Lubricating oil compositions containing modified succinimides (V). 4,647,390, 3-3-87, Cl. 252-51.50A.
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Buckman Laboratories, Inc.: *See—*
  May, Oscar W.; and Johnson, Betty S., 4,650,808, Cl. 514-372.000.
  Rayudu, S. Rao, 4,650,866, Cl. 544-186.000.
  Terry, John P.; and May, Oscar W., 4,671,934, Cl. 422-15.000.
Buckman, William C.; and Tapp, Michael R., to Cessna Aircraft Company. The Cuffed aircraft propeller. 4,642,028, 2-10-87, Cl. 416-95.000.
Buckmaster, Kenneth E.: *See—*
  Andreasen, David A.; Armstrong, John H.; Buggert, Jerrold E.; Desai, Harshad K.; Baumgardner, Stephen D.; Buckmaster, Kenneth E.; and Hussain, Zubair, 4,695,946, Cl. 364-200.000.
Buckmaster, Marlin D.; and Morgan, Richard A., to Du Pont de Nemours, E. I., and Company. Melt-processible tetrafluoroethylene/perfluoroolefin copolymer granules and processes for preparing them. 4,675,380, 6-23-87, Cl. 528-481.000.
Buckmaster, Marlin D., to Du Pont de Nemours, E. I., and Company. Process for preparing melt processible tetrafluoroethylene copolymer granules. 4,714,756, 12-22-87, Cl. 528-481.000.
Buckner, Carrol E. Stove with catalytic converter. 4,694,820, 9-22-87, Cl. 126-289.000.
Buckner, Horst. Oral exerciser for face, chin and neck, and medical appliance. 4,671,260, 6-9-87, Cl. 128-76.00R.
Buckner, John G.: *See—*
  Lineberry, Cletus E.; Buckner, John G.; and Harris, Jimmy 4,646,598, Cl. 83-56.000.
Bucksbee, James H.; and Siwek, Casimir K. Rail fastener assembly with horizontal flanges. 4,715,533, 12-29-87, Cl. 238-283.000.
Bucksch, Walter, to Texas Instruments Incorporated. Protective circuit arrangement for protecting semiconductor components. 4,686, 8-11-87, Cl. 361-91.000.
Buckshaw, Thomas M.; and Llewellyn, David T., to Robertshaw Controls Company. Water level control device and method of making the same. 4,696,204, 9-29-87, Cl. 74-567.000.
Buckwalter, Kendrick. Separator means for framelike devices 4,709,495, 12-1-87, Cl. 40-158.00R.
Buczek, Carl J.; and Myers, James G., to Ford Aerospace & Communications Corp. Polarization insensitive mirror. 4,662,722, 5-5-87, Cl. 350-395.000.
Bud Antle, Inc.: *See—*
  DeGroot, Peter F., 4,651,910, Cl. 225-1.000.
  Plumb, Bruce E.; and Freeman, C. Dal, 4,655,667, Cl. 414-343.0
Budan, Victor J.: *See—*
  Knudsen, James K.; Smith, Jane E.; Budan, Victor J.; Wroblewski, David J.; and Skuratovsky, Eugene, 4,679,445, Cl. 73-861.24.
Budapesti Boripari Vallalat: *See—*
  David, Dezso; Rovo, Peter; Sipos nee Richter, Terez; Molnar, Gyorgy; Deme, Istvan; and Karnitscher, Tamas, 4,713,078, Cl. 8-94.150.
Budapesti Muszaki Egyetem: *See—*
  Csak, Bela, 4,638,609, Cl. 52-167.000.
  Csak, Bela, 4,651,481, Cl. 52-167.000.
  Pungor, Erno; Toth, Klara S.; Feher, Zsofia; Nagy, Geza; and Horvai, Gyorgy, 4,673,295, Cl. 356-440.000.
  Szody, Peter; Dunajcsik, Peter; Villanyi, Miklos; Bossanszky, Ferenc; Libor, Endre; and Kiss, Ferenc, 4,696,643, Cl. 432-120.000.
Budapesti Vegyimuvek: *See—*
  Dombay, Zsolt; Grega nee Toth, Erzsebet; Nagy, Jozsef; Pavlis-sak, Csaba; Tasi, Laszlo; Toth, Andras; Toth, Oszkar; Vitanyi, Judit; Bihari, Ferenc; Bohus, Peter; Inczedy, Peter; Magyar, Istvan; Kertesz nee Szabo, Marianna; Wohl, Laszlo; and Ferenczi, Attila, 4,670,429, Cl. 514-187.000.
  Komives, Tamas; Dutka, Ferenc; Barta, Istvan; Jablonkai, Istvan; Hulesch, Agnes; Bihari, Ferenc; Eifert, Gyula; Bohus, Peter; Nagy, Mihaly; Bacskai, Gyorgy; and Kuronya, Istvan, 4,708, Cl. 71-94.000.
Budavari, John; and Grabowski, Edward J. J., to Merck & Co., Inc. Process for crystalline salts of L or (S)-3-(3,4-dihydroxyphenyl)-2-methylalanine esters. 4,670,578, 6-2-87, Cl. 560-40.000.
Budd Company, The: *See—*
  Bush, John W., 4,674,549, Cl. 152-158.000.
  Eggert, Walter S., Jr., 4,674,413, Cl. 105-224.050.
  Epel, Joseph N., 4,639,387, Cl. 428-113.000.
  Freeman, Richard B.; and Eggert, Walter S., Jr., 4,633,626, Cl. 52-71.000.
  Freeman, Richard B.; Goetz, Charles W.; and Eggert, Walter S., Jr., 4,712,710, Cl. 220-414.000.
  Hannum, Joseph R., 4,645,598, Cl. 210-232.000.

Herring, James M., Jr., 4,712,488, Cl. 105-224.100.

McDougall, Malcolm K., 4,636,344, Cl. 264-102.000.

Mekosh, George, Jr., 4,688,777, Cl. 267-141.100.

Pavlick, Michael J., 4,633,786, Cl. 105-203.000.

Pavlick, Michael J., 4,648,764, Cl. 410-77.000.

Pavlick, Michael J., 4,653,683, Cl. 228-182.000.

Stevens, Raymond R., Jr.; Beisel, Robert R., and Griffiths, Stephen F., 4,697,448, Cl. 72-405.000.

Wilkinson, Robert E., and Epel, Joseph N., 4,643,126, Cl. 118-405.000.

dd, David L., and Fowler, David P., to Frito-Lay, Inc. Cross-cut trusion method. 4,680,191, 7-14-87, Cl. 426-439.000.

dd, Stephen C., and Gaughan, Richard, to Wang Laboratories, Inc. Telephone circuitry with power backup. 4,653,088, 3-24-87, Cl. 79-165.000.

dde, Frederik J., to Akzo nv. Process for the recovery of ethylene mines from an aqueous solution. 4,683,337, 7-28-87, Cl. 564-498.000.

dde, Herbert, deceased: *See—*

Prinzwald, Dieter; Budde, Herbert, deceased; and Heusel, Johann, 4,668,113, Cl. 400-174.000.

dde, Inge, legal representative: *See—*

Prinzwald, Dieter; Budde, Herbert, deceased; and Heusel, Johann, 4,668,113, Cl. 400-174.000.

decke, Charles L., and Graham, Robert F., Jr., to Hughes Aircraft ompany. Inherently flat spectral density pseudorandom noise gener- or 4,697,157, 9-29-87, Cl. 331-78.000.

denbaum, Harry C., and Robison, Robert L., to Eli Lilly and ompany. Pharmaceutical compositions for storage in plastic con- eners and process therefor. 4,684,643, 8-4-87, Cl. 514-204.000.

denbohm, Harold W., to Rockwell International Corporation. arried turbine tip seal. 4,652,209, 3-24-87, Cl. 415-174.000.

dwalk, John A., to AMP Incorporated. Normal force transducer r receptacle contact. 4,667,512, 5-26-87, Cl. 73-161.000.

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Kennedy, Melvin R.; Nagel, Dietmar; and Arad, Abraham A., 4,643,695, Cl. 446-427.000.

Kennedy, Melvin R.; Nagel, Dietmar; and Arad, Abraham A., 4,693,693, Cl. 446-6.000.

el, Josef: *See—*

Dantlgraber, Jorg; Budel, Josef; and Rub, Josef, 4,697,990, Cl. 417-204.000.

r, Eckart; Metz, Hans-Ulrich; and Ubermeier, Dieter, to Varta tterie Aktiengesellschaft. Multicell electric storage battery with mbined means for waste-gas drying and flame-protection. 78,726, 7-7-87, Cl. 429-88.000.

rt, Gunter H., to Georg Knoblauch, Firma. Secured container and king device for same. 4,682,688, 7-28-87, Cl. 206-1.500.

rus Aktiengesellschaft: *See—*

Durth, Wilfried, 4,701,334, Cl. 426-510.000.

Feuring, Kurt, 4,694,879, Cl. 164-7.200.

Schreiber, Jurgen; and Guntram, Albrecht, 4,671,520, Cl. 279-100G.

e, John R.; Compton, Senja V.; Goeden, Gary V.; and Mazanec, ny J., to Standard Oil Company, The. Catalysts for the conversion yn gas. 4,665,042, 5-12-87, Cl. 502-61.000.

e, John R., and Compton, Senja V., to Standard Oil Company, e. Oxygenate condensation catalyst. 4,681,868, 7-21-87, Cl. -307.000.

, Josef; Sciaroni, Boris; Kilcher, Beat; and Levy, Gideon, to AG ndustrielle Elektronik AGIE Losone b. Locarno. Apparatus for enging the erosion zone of spark-erosive cutting plants. 4,825, 1-6-87, Cl. 219-69.00W.

, Richard J.; Wyatt, James G., Jr., and Herman, Fred W., to rity Tag Systems, Inc. Recording-tape-reel assembly with elec- ic tag. 4,692,746, 9-8-87, Cl. 340-572.000.

g, Hartmuth; Szentivanyi, Zsolt; and Thormer, Joachim, to Bayer engesellschaft. Low molecular weight copolymers and covul- zates produced therefrom. 4,647,627, 3-3-87, Cl. 525-234.000.

g, Hartmuth; Konigshofen, Heinrich; Szentivanyi, Zsolt; and rmer, Joachim, to Bayer Aktiengesellschaft. Polymer mixtures co-vulcanizates produced therefrom. 4,675,248, 6-23-87, Cl. 398.000.

g, Hartmuth: *See—*

dler, Paul; Braden, Rudolf; and Buding, Hartmuth, 4,673,757, Cl. 558-431.000.

a, Wolfgang; Nouvertne, Werner; and Buding, Hartmuth, 4,652,607, Cl. 525-67.000.

r, A. Bowman; and Lapatovich, Walter P., to GTE Laborato- Incorporated. Fluorescent light source excited by excimer emis- 4,710,679, 12-1-87, Cl. 315-58.000.

kas, Pranas; and Saigh, Philip A., to Chamberlain Manufactur- Corporation. Apparatus and method of recovering water from e exhaust gases. 4,656,831, 4-14-87, Cl. 60-297.000.

ki, John A., to General Motors Corporation. Transmission ratio tor. 4,683,768, 8-4-87, Cl. 74-411.500.

Mark: *See—*

lwin, Roger P.; and Budke, Mark, 4,681,159, Cl. 166-124.000.

Mark P.: *See—*

lwin, Roger P.; and Budke, Mark P., 4,712,614, Cl. 166-208.000.

er, Hermann, to Impexor AG. Eye protection device for welder ction equipment. 4,686,711, 8-18-87, Cl. 2-8.000.

k, Mitchell: *See—*

ter, G. Thomas; and Budniak, Mitchell, 4,711,987, Cl. 19-358.000.

Budnik, Brian J.: *See—*

Dolikian, Armin V.; Kotzin, Michael D.; and Budnik, Brian J., 4,654,881, Cl. 455-70.000.

Budnik, Roger W.: *See—*

Hinton, John H.; Nau, Keith A.; and Budnik, Roger W., 4,699,497, Cl. 355-14.00E.

Budny, Rick R. Method and device for reclaiming fluid lubricants. 4,681,660, 7-21-87, Cl. 196-46.100.

Budrikis, Zigmantas L.; Hatamian, Mehdi; Kubik, Peter S.; and Netravali, Arun N., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Pressure-sensitive light pen. 4,705,942, 11-10-87, Cl. 250-227.000.

Budrow, Jack C., and Reed, Glenn A., to Barker Manufacturing Company, Inc. Extendable directional dipole antenna. 4,663,632, 5-5-87, Cl. 343-714.000.

Budwey, Michael J.: *See—*

Stiffler, Jack J.; Budwey, Michael J.; and Nolan, James M., 4,654,819, Cl. 364-900.000.

Budyansky, Vigdor S.: *See—*

Brudny-Chelyadinov, Serge J.; Budyansky, Vigdor S., and Filimonov, Viktor A., 4,676,716, Cl. 415-144.000.

Budzich, Tadeusz, to Caterpillar Inc. Compensated fluid flow control valve. 4,665,801, 5-19-87, Cl. 91-420.000.

Budzich, Tadeusz, to Caterpillar Inc. Compensated fluid flow control valve. 4,679,492, 7-14-87, Cl. 91-420.000.

Budzich, Tadeusz, to Fluid Power Components, Inc. Water-oil separating system including centrifugal type separator and flow controls therefor. 4,687,572, 8-18-87, Cl. 210-114.000.

Budzich, Tadeusz, to Caterpillar Inc. Compensated fluid flow control valve. 4,688,470, 8-25-87, Cl. 91-420.000.

Budzich, Tadeusz, to Caterpillar Inc. Load compensated valve. 4,694,731, 9-22-87, Cl. 91-421.000.

Budzich, Tadeusz: *See—*

Gold, Harold; and Budzich, Tadeusz, 4,667,695, Cl. 137-486.000.

Gold, Harold; and Budzich, Tadeusz, 4,699,166, Cl. 137-2.000.

Budzinski, Walter J.: *See—*

Maxwell, Reginald R.; Budzinski, Walter J.; Kuttruff, Manfred K.; Stanish, Leo S., and Turner, Larry G., 4,647,086, Cl. 285-342.000.

Bue, Richard L., and Ratchford Michael, to United Technologies Corporation. Fault tolerant flight data recorder. 4,682,292, 7-21-87, Cl. 364-424.000.

Buechel, Franz, to Hilti Aktiengesellschaft. Explosive powder charge operated driving device. 4,708,061, 11-24-87, Cl. 102-331.000.

Buechele-Buecher, Sigfrid; and Unterstein, Klaus, to Rheinmetall GmbH. Gas generator. 4,688,379, 8-25-87, Cl. 60-230.000.

Buechele, Juergen W., and Fisher, Guenter, to G & F Precision, Inc. Universal joint maker. 4,693,288, 9-15-87, Cl. 144-87.000.

Buecheler, Herbert: *See—*

Kittscher, Peter; and Buecheler, Herbert, 4,700,857, Cl. 215-232.000.

Buecher, Roger W., to United States of America, Navy. Collapsible salvage drum and method. 4,658,745, 4-21-87, Cl. 114-54.000.

Buechle, Karl-Heinz: *See—*

Hoernig, Rudolf; Herges, Peter; Knoff, Bernd; Richter, Karl-Heinz; Buechle, Karl-Heinz; and Wallentowitz, Henning, 4,681,185, Cl. 180-247.000.

Buehl, G. Thomas, to International Jensen Incorporated. Low friction cleaner for magnetic transducer head. 4,661,874, 4-28-87, Cl. 360-128.000.

Buehler, David L.: *See—*

Rowen, Michael J.; Yuhasz, Stephen J.; Buehler, David L.; Jacoby, Elliot G.; and Spira, Joel S., 4,689,547, Cl. 323-239.000.

Buehler, Henry J.: *See—*

Dunski, Neil; Bazzi, Ali A.; and Buehler, Henry J., 4,634,728, Cl. 524-219.000.

Dunski, Neil; Bazzi, Ali A.; and Buehler, Henry J., 4,680,325, Cl. 524-101.000.

Buehler Ltd.: *See—*

Ahmed, Wase U., 4,655,700, Cl. 425-73.000.

Doyle, Ralph R., 4,671,629, Cl. 350-523.000.

Doyle, Ralph R., 4,678,119, Cl. 239-9.000.

Doyle, Ralph R., 4,693,035, Cl. 51-125.000.

Buehler, Martin G.: *See—*

Blaes, Brent R., and Buehler, Martin G., 4,688,947, Cl. 368-120.000.

Buehler, William E.: *See—*

Bauer, Barney J.; Buehler, William E., and Wingate, Gregory A., 4,660,325, Cl. 49-352.000.

Buehrer, Robert J., and Gargano, William L. B., to FXC Corporation. Removable slider for parachute deployment. 4,678,145, 7-7-87, Cl. 244-152.000.

Buekers, Josef: *See—*

Kress, Hans-Jurgen; Muller, Friedemann; Lindner, Christian; Peters, Horst; and Buekers, Josef, 4,692,488, Cl. 524-139.000.

Buekers, Valere: *See—*

Nolf, Jean-Marie E.; Genbrugge, Hubert; Buekers, Valere; Mendes, Luiz N.; Doucet, Jos; and Vansant, Jan, 4,648,168, Cl. 29-447.000.

Vansant, Jan; Overbergh, Noel; Buekers, Valere; and Pieck, Amandus L. E., 4,641,009, Cl. 219-200.000.

Vansant, Jan; Overbergh, Noel; Buekers, Valere; and Pieck, Amandus L. E., 4,680,065, Cl. 156-49.000.

Buelke, Gerhart: *See—*

Streibig, Kurt; and Buelke, Gerhart, 4,646,907, Cl. 198-335.000.

Buell, Gary N., to Biogen N.V. DNA sequences, recombinant DNA molecules and processes for producing bovine growth hormone-like polypeptides in high yield. 4,693,973, 9-15-87, Cl. 435-68.000.

Buell, Heinz: *See*—

Marino, Louis S.; Buell, Heinz; and Fiore, Joan M., 4,675,822, Cl. 364-453.000.

Buell Industries, Inc.: *See*—

Becker, Philip D., 4,634,018, Cl. 220-233.000.

Peterson, Francis C., 4,676,391, Cl. 220-233.000.

Buell, Kenneth B., to Procter & Gamble Company, The. Disposable garment with breathable leg cuffs. 4,636,207, 1-13-87, Cl. 604-370.000.

Buell, Kenneth B., to Procter & Gamble Company, The. Disposable waste containment garment. 4,704,115, 11-3-87, Cl. 604-385.00A.

Buell, Scott: *See*—

Boldridge, Austin, Jr.; Buell, Scott; and Graham, James M., 4,712,092, Cl. 340-365.00A.

Bueno, Serge; and Bourbon, Philippe, to Alcatel. Device for transmitting packets in an asynchronous time-division network, and method of encoding silences. 4,701,912, 10-20-87, Cl. 370-94.000.

Buensch, Hellmut: *See*—

Hartmann, Heinrich; Hoffmann, Gerhard; Buensch, Hellmut; and Hofmann, Reiner, 4,643,963, Cl. 430-286.000.

Hesse, Anton; Buensch, Hellmut; and Czauderna, Bernhard, 4,670,485, Cl. 523-436.000.

Buente, Stephen M., to Eaton Corporation. Hydraulic lash adjuster with combined reservoir extension and metering system. 4,633,827, 1-6-87, Cl. 123-90.550.

Buente, Stephen M.; and Hillebrand, George A., to Eaton Corporation. Self-contained hydraulic bucket lifter. 4,688,526, 8-25-87, Cl. 123-90.580.

Buente, Stephen M.; and Hillebrand, George A., to Eaton Corporation. Self contained hydraulic bucket lifter. 4,715,334, 12-29-87, Cl. 123-90.580.

Buerger, Gert: *See*—

Pilz, Georg; Buerger, Gert; Barl, Manfred; and Thiel, Gerhard, 4,713,201, Cl. 260-501.170.

Pilz, Georg; Buerger, Gert; Barl, Manfred; and Thiel, Gerhard, 4,713,437, Cl. 528-336.000.

Buerkel, David H., to Applied Energy Systems, Inc. Positive or negative voltage power supply with slideable carrier switching mechanism. 4,682,046, 7-21-87, Cl. 307-138.000.

Buerositzmobelfabrik Friedrich-W. Dauphin GmbH & Company: *See*—

Dauphin, Elke, 4,662,680, Cl. 297-300.000.

Buerstinghaus, Rainer; Kiehs, Karl; and Adolphi, Heinrich, to BASF Aktiengesellschaft. Oximinophosphoric acid derivatives and their use for controlling pests. 4,670,425, 6-2-87, Cl. 514-112.000.

Buerstinghaus, Rainer; and Adolphi, Heinrich. Bisthiophosphates and their use for controlling pests. 4,710,494, 12-1-87, Cl. 514-143.000.

Buerstinghaus, Rainer: *See*—

Hofmeister, Peter; Buerstinghaus, Rainer; and Adolphi, Heinrich, 4,642,368, Cl. 560-65.000.

Buese, George J.; and Yoon, Hee K., to Johnson & Johnson Products, Inc. Conformable fiberglass casting tape. 4,668,563, 5-26-87, Cl. 428-230.000.

Buess, Gerd: *See*—

Hutterer, Frieder; Buess, Gerd; and Boebel, Manfred, 4,641,652, Cl. 128-334.00R.

Hutterer, Frieder; Buess, Gerd; and Boebel, Manfred, 4,683,885, Cl. 128-334.00R.

Buess, Ronald P.: *See*—

Barth, Russell W.; and Buess, Ronald P., 4,710,416, Cl. 428-119.000.

Buetergerds, Helmut: *See*—

Zachrei, Jurgen; Koch, Hans-Georg; Zachrei, Jurgen; and Buetergerds, Helmut, 4,689,722, Cl. 361-391.000.

Buethe, Ingolf: *See*—

Lechtken, Peter; Buethe, Ingolf; Jacobi, Manfred; and Trimborn, Werner, 4,710,523, Cl. 522-14.000.

Mueller, Gerhard; Marx, Matthias; Jarre, Wolfgang; Baumann, Edwin; and Buethe, Ingolf, 4,668,708, Cl. 521-159.000.

Buettner, Carl F. Flow measuring system with backflow preventing means. 4,715,232, 12-29-87, Cl. 73-861.490.

Buettner, Gerhard, to Siemens Aktiengesellschaft. Hearing aid with a housing to be worn behind the ear. 4,638,125, 1-20-87, Cl. 381-68.400.

Buff, Ernest D.: *See*—

Fish, Gordon E.; Hasegawa, Ryusuke; and Buff, Ernest D., 4,634,462, Cl. 65-29.000.

Buffalo Dental Manufacturing Co., Inc.: *See*—

Nevin, Donald M., 4,698,206, Cl. 422-24.000.

Buffalo Weaving and Belting Company: *See*—

Johnson, Charles E.; and New, Richard W., 4,637,511, Cl. 198-846.000.

Buffard, Jean-Pierre: *See*—

Gardaz, Claudine; and Buffard, Jean-Pierre, 4,677,000, Cl. 427-261.000.

Bufkin, Paul R.: *See*—

Brooks, Kenneth L.; Bufkin, Paul R.; Mihal, David G.; and Miller, Jerry G., 4,679,232, Cl. 379-413.000.

Buford, Charles G.: *See*—

Buford, Wesley E.; and Buford, Charles G., 4,670,194, Cl. 261-36.200.

Buford, J. Philip. Magnetic system for nuclear magnetic resonance diagnostic device. 4,673,882, 6-16-87, Cl. 324-320.000.

Buford, John T., to Sundstrand Corporation. Power source utilizing encapsulated lithium pellets and method of making such pellets. 4,634,479, 1-6-87, Cl. 149-6.000.

Buford, John T., to Sundstrand Corporation. Power source utilizing encapsulated lithium pellets and method of making such pellets. 4,671,211, 6-9-87, Cl. 122-4.00R.

Buford, John T., to Sundstrand Corporation. Power source utilizing encapsulated lithium pellets and method of making such pellets. 4,714,051, 12-22-87, Cl. 122-21.000.

Buford, Wesley E.; and Buford, Charles G. Carburetor. 4,670,194, 6-2-87, Cl. 261-36.200.

Bugaj, Joseph E.; and Grogg, Terry W., to Mallinckrodt, Inc. Radiographic imaging agents. 4,707,353, 11-17-87, Cl. 424-1.100.

Bugajski, Frank H.; and Fosnacht, Donald R., to Inland Steel Company. Tundish with fluid flow control structure. 4,653,733, 3-31-87, Cl. 266-275.000.

Bugaut, Andree; and Junino, Alex M., to L'Oreal. Indoaniline and indophenol compounds, a process for their preparation, dyeing compositions containing them and a hair-dyeing process. 4,702,86 10-27-87, Cl. 260-396.00N.

Bugaut, Andree: *See*—

Kalopissis, Gregoire; Bugaut, Andree; and Estradier, Francoise 4,675,130, Cl. 260-396.00N.

Bugg, Richard E. F., to U.S. Philips Corporation. Data display arrangements. 4,672,371, 6-9-87, Cl. 340-749.000.

Bugg, Richard E. F., to U.S. Philips Corporation. Variable size character display without loss of obscured character positions. 4,682,16 7-21-87, Cl. 340-731.000.

Bugg, Richard E. F., to U.S. Philips Corporation. Data display system. 4,695,835, 9-22-87, Cl. 340-750.000.

Bugg, Richard E. F.: *See*—

Kinghorn, John R.; and Bugg, Richard E. F., 4,698,677, C 358-147.000.

Buggert, Jerrold E.: *See*—

Andreasen, David A.; Armstrong, John H.; Buggert, Jerrold E.; Desai, Harshad K.; Baumgardner, Stephen D.; Buckmas Kenneth E.; and Hussain, Zubair, 4,695,946, Cl. 364-200.000.

Andreasen, David A.; Buggert, Jerrold E.; Desai, Harshad K.; an Hussain, Zubair, 4,701,845, Cl. 364-200.000.

Bugianesi, Robert L.: *See*—

Chang, Michael N.; Hwang, San-Bao; Ponpipom, Mitree M.; an Bugianesi, Robert L., 4,704,462, Cl. 549-466.000.

Bugiel, Horst G., to Diehl GmbH & Co. Method for accelerating a object and propeling arrangement for implementing the method fo such object, particularly an object to be driven into ground b water. 4,665,791, 5-19-87, Cl. 89-1.100.

Bugiel, Horst G., to Diehl GmbH & Co. Warhead, especially for th attacking of radar installations. 4,690,062, 9-1-87, Cl. 102-476.000.

Bugler, Thomas W., III, to Marley Cooling Tower Company, The. Multipurpose non-clogging nozzle for water cooling tower 4,700,893, 10-20-87, Cl. 239-498.000.

Buglione, Arthur J.: *See*—

Aposchanski, Alexander; Buglione, Arthur J.; Coats, James M.; an Edelman, Brian S., 4,644,474, Cl. 364-431.050.

Bugner, Douglas E.: *See*—

Bonser, Steven M.; Bugner, Douglas E.; and Demejo, Lawrence P 4,684,596, Cl. 430-110.000.

Buhayar, Eric S. Rotary cutter blade clamp. 4,709,607, 12-1-87, C 83-342.000.

Buhk, Artur: *See*—

Schoettle, Klaus; Buhk, Artur; Kamm, Eugen; Berger, Heinz; an Gaiser, Dieter, 4,687,157, Cl. 242-199.000.

Buhks, Ephraim: *See*—

Myers, Ronald E.; and Buhks, Ephraim, 4,680,236, Cl. 428-515.0

Buhler, Arthur: *See*—

Adam, Jean-Marie; and Buhler, Arthur, 4,667,057, Cl. 562-567.0

Buhler, Edmund: *See*—

Nees, Stephan, 4,648,863, Cl. 494-17.000.

Buhler, Ernst; and Rullo, Antonio, to AG fur industrielle Elektro AGIE Losone b. Locarno. Pulse generator for spark erosive me working. 4,713,516, 12-15-87, Cl. 219-69.00P.

Buhler, Ernst: *See*—

Dresti, Silvano; Buhler, Ernst; and Derighetti, Rene, 4,678,885, 219-69.00C.

Kilcher, Beat; Buhler, Ernst; and Levy, Gideon, 4,655,888, 204-129.430.

Buhler, Eugen. Installation for the production of horizontally divi flaskless sand block molds. 4,702,301, 10-27-87, Cl. 164-168.000.

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Buhler, Karl, to BBC Brown, Boveri & Company, Limited. Bo electrode for a direct current arc furnace. 4,637,033, 1-13-87 373-72.000.

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Buiguez, Francois; and Hartmann, Joel, to Commissariat a l'Energie Atomique. Process for the autopositioning of a local field oxide with respect to an insulating trench. 4,636,281, 1-13-87, Cl. 156-643.000.

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Buike, James W.; and Eddy, William C., to Allied Corporation. Electro/pneumatic proportional valve. 4,638,837, 1-27-87, Cl. 137-627.500.

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Buisine, Paul H.; and Dancer, Paul, to Dowell Schlumberger Incorporated. Method of observing the pumping characteristics of a positive displacement pump. 4,705,459, 11-10-87, Cl. 417-53.000.

Buisson, Claude; and Delafoy, Jean-Alain, to Societe Nationale d'Exploitation Industrielle des Tabacs et Allumettes. Process and device for supplying an operation station with a succession of guided articles. 4,708,237, 11-24-87, Cl. 198-726.000.

Bujadoux, Karel: *See*—

Levresse, Bernard; Hilt, Edmond; and Bujadoux, Karel, 4,650,841, Cl. 526-68.000.

Bujalski, Duane R., to Dow Corning Corporation. Ceramic materials from silazane polymers. 4,668,642, 5-26-87, Cl. 501-88.000.

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Baney, Ronald H.; and Bujalski, Duane R., 4,666,872, Cl. 501-88.000.

Bujalski, Joseph; and Welk, John R., to Motorola, Inc. Improved memory control for a scanning CRT visual display system. 4,673,930, 6-16-87, Cl. 340-703.000.

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Santos, Abelardo M.; Calabrese, Peter J.; Schmidt, Gary W.; and Bujese, David P., 4,661,431, Cl. 430-126.000.

Bukatov, Alexandr S.: *See*—

Iofis, Naum A.; Vettsel, Rudolf N.; Bukatov, Alexandr S.; and Khurtsilava, Semen G., 4,713,071, Cl. 623-2.000.

Bukoschek, Romuald L., and Huszar, Reinhard, to U.S. Philips Corporation. Ice-cream maker. 4,696,166, 9-29-87, Cl. 62-136.000.

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Bukoschek, Romuald L.: *See*—

Bertram, Leo; Bukoschek, Romuald L.; and Steiner, Peter, 4,637,283, Cl. 81-3.200.

Buksek, Andrej, to Carl Schenck AG. Apparatus for equalizing the deposition of a particle mass. 4,703,783, 11-3-87, Cl. 141-83.000.

Buky, Gabriel R.: *See*—

Littwin, Kenneth M.; Armond, Joseph A.; Buky, Gabriel R.; and Patrick, Fred, 4,639,821, Cl. 361-151.000.

Bulard, Ronald A.: *See*—

Rohrer, Michael D.; and Bulard, Ronald A., 4,671,935, Cl. 422-21.000.

Bulat, Emel S.; Ditchek, Brian M.; and Butler, Scott J., to GTE Laboratories Incorporated. Method of fabricating recessed gate static induction transistors. 4,713,358, 12-15-87, Cl. 437-65.000.

Bulger, Ray F. Illuminated child's tray. 4,640,033, 2-3-87, Cl. 40-324.000.

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Jones, Franklin B.; Milberger, Walter E.; Bulgher, David E.; and Kerfoot, Charles S., 4,698,742, Cl. 363-124.000.

Buljan, Sergei-Tomislav V.; Lingertat, Helmut; Baldoni, J. Gary; and Sarin, Vinod K., to GTE Laboratories Incorporated. Coated cemented carbide tool for steel roughing applications and methods for machining. 4,698,266, 10-6-87, Cl. 428-457.000.

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Buljan, Sergej-Tomislav, to GTE Laboratories Incorporated. Abrasion resistant silicon nitride based articles. 4,650,498, 3-17-87, Cl. 51-309.000.

Buljan, Sergej-Tomislav; and Baldoni, J. Gary, to GTE Laboratories Incorporated. Insert for a drilling tool bit and a method of drilling therewith. 4,696,352, 9-29-87, Cl. 175-57.000.

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Baldoni, J. Gary, II; Buljan, Sergej-Tomislav; and Sarin, Vinod K., 4,710,425, Cl. 428-328.000.

Bulk Lift International, Incorporated: *See*—

Nattrass, Peter J., 4,646,357, Cl. 383-20.000.

Bulka, Raymond L.; and Nowaczyk, David J., to McCain Manufacturing Corporation. Signature machine with counterpulse weight shuttle bar drive. 4,711,440, 12-8-87, Cl. 270-53.000.

Bull, Christopher H.: *See*—

Bagga, Madan M.; and Bull, Christopher H., 4,659,779, Cl. 525-118.000.

Bagga, Madan M.; and Bull, Christopher H., 4,701,378, Cl. 428-414.000.

Bagga, Madan M.; and Bull, Christopher H., 4,713,432, Cl. 526-313.000.

Bull, Cyril A., to Metal Box p.l.c. Apparatus for forming a container curl with a generally V-shaped crushed portion. 4,667,499, 5-26-87, Cl. 72-352.000.

Bull, David R. Surf lock. 4,712,394, 12-15-87, Cl. 70-18.000.

Bull, Randy A.: *See*—

Taylor, Edward C.; Katz, Alan H.; Bull, Randy A.; Byers, Lance R.; and Brown, Richard A., 4,695,658, Cl. 568-763.000.

Bull, Rebecca L.; and Shupert, Kristine A. Mother's apron or bib with detachable multicolored two-dimensional infant toys to aid supervised baby play. 4,710,979, 12-8-87, Cl. 2-48.000.

Bull, Robert W.; Soltysiak, Robert M.; and Minnick, Paul D., to Neogen Corporation. Method for administering vaccines containing equine leukokines and compositions therefor. 4,689,224, 8-25-87, Cl. 424-89.000.

Bull, Ronald E.; and Schneider, Kenneth W., to Schneider Metal Manufacturing Co. Beverage cooler having a cold plate and plastic ice bin. 4,651,538, 3-24-87, Cl. 62-398.000.

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Bacou, Claude; Baptiste, Rene; Feissel, Henri; Takats, Gilbert; and Cabrol, Christian, 4,714,828, Cl. 250-214.00C.

Bull, Timothy B. H.; and Wahl, Raymond C., to Loram Maintenance of Way, Inc. Railroad mounted trench digger. 4,713,898, 12-22-87, Cl. 37-96.000.

Bull, Walter E., to Wilkerson Corporation. Pressure control valve with push-pull locking adjustment knob. 4,696,320, 9-29-87, Cl. 137-116.500.

Bullara, Leo A.: *See*—

Talalla, Andrew; and Bullara, Leo A., 4,633,889, Cl. 128-784.000.

Bullard, Russell H.: *See*—

Barnes, Garrison C.; Bullard, Russell H.; and Weber, Robert C., 4,669,521, Cl. 160-136.000.

Bullat, David M., to United States of America, Navy. Metal matrix composite piston head and method of fabrication. 4,706,550, 11-17-87, Cl. 92-260.000.

Bulle, Marshall R. Hand cart. 4,685,854, 8-11-87, Cl. 414-452.000.

Bullen, David A.: *See*—

Anderson, Andrew G.; Bullen, David A.; and Ferguson, Robert G., 4,677,877, Cl. 74-785.000.

Seung, Michael B.; Sivalingham, Ramalingam; Bullen, David A.; Anderson, Andrew G.; and McCharles, Donald A., 4,662,861, Cl. 474-86.000.

Bullen, David J.; and Umpleby, Jeffrey D., to BP Chemicals Limited. Polymer composition. 4,707,517, 11-17-87, Cl. 525-72.000.

Bullen, Ronald S.; Mzik, Joseph; and Richard, Jean P., to Canadian Fracmaster Limited. Novel compositions suitable for treating deep wells. 4,701,270, 10-20-87, Cl. 252-8.551.

Buller-Colthurst, Guy E. Food processing chamber. 4,644,857, 2-24-87, Cl. 99-335.000.

Buller-Colthurst, Guy E.; and Jespersen, Knud, to Knud Simonsen Industries Limited. Holder for processing products. 4,658,718, 4-21-87, Cl. 100-194.000.

Buller, Joseph S., to Santa Barbara Research Center. Thermal damper for infrared detector. 4,694,175, 9-15-87, Cl. 250-352.000.

Buller, Marvin L.; Lumbra, Douglas L.; Phelps, Douglas W.; Samuelsen, Sigvart J.; and Ward, William C., to International Business Machines Corporation. Welded wire cooling. 4,714,953, 12-22-87, Cl. 357-81.000.

Buller, Michael J.: *See*—

Jenkins, John E.; Sperinck, John; and Buller, Michael J., 4,702,071, Cl. 60-39.092.

Bullinga, Lothar H., to Rockwell International Corporation. Opto-electronic color sensor. 4,674,877, 6-23-87, Cl. 356-300.000.

Bullis, Daniel R., Jr.: *See*—

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Wendt, David W.; Bullis, Daniel R., Jr.; Kemp, Alan F.; and Suzda, Gregory R., 4,664,304, Cl. 226-127.000.

Bullitt, Julian G.; and Cottrell, F. Richard, to Polaroid Corporation. Diffusion transfer film unit with pH sensitive filter backing layer. 4,654,293, 3-31-87, Cl. 430-221.000.

Bullivant, Roger A., to Roger Bullivant of Texas, Inc. Piles. 4,659,256, 4-21-87, Cl. 405-230.000.

Bullock, Christopher A. Insulation configurations and method of increasing insulation efficiency. 4,696,138, 9-29-87, Cl. 52-407.000.

Bullock, Christopher A. Ceiling insulation and method of installation. 4,707,960, 11-24-87, Cl. 52-404.000.

Bullock, Donald F.; Simon, Francois Y.; and Farnsworth, Richard G., to General Electric Company. Solid state electronic pulse scaler using ratio of two integers. 4,665,358, 5-12-87, Cl. 324-103.00R.

Bullock, Donald F.; and Wilson, Austin F., to General Electric Company. Identical left-right current stators for polyphase watthour meter. 4,673,873, 6-16-87, Cl. 324-137.000.

Bullock, Joseph J., to Bankers Trust Co. Tamper-resistant container closure. 4,676,389, 6-30-87, Cl. 215-232.000.

Bullock, Joseph J., to Bankers Trust Co. Tamper-resistant container cap. 4,678,094, 7-7-87, Cl. 215-256.000.

Bullock, Joseph J., to Bankers Trust Co. Container cap having rounded retainer bead sections. 4,699,287, 10-13-87, Cl. 215-256.000.

Bullock, Joseph J., III, to Bankers Trust Company. Cap and neck structure for a wide mouth jar. 4,691,834, 9-8-87, Cl. 215-232.000.

Bullock, Karl D., to American Hospital Supply Corp. Backform inserts for catheter. 4,670,009, 6-2-87, Cl. 604-280.000.

Bullock, Mark E., to Halliburton Company. Magnetic detector apparatus. 4,638,278, 1-20-87, Cl. 335-207.000.

Bullock, Randolph H.: *See*—

Hubble, Fred F., III; Bullock, Randolph H.; Cheung, Li-Fung; Crumrine, Robert E.; Martin, James P.; White, Peter P.; and Zomorrodi, Mehrdad, 4,670,647, Cl. 250-214.0AG.

Bullock, Robert L., to Standard Research and Design Corp. Frameless radial truck. 4,676,172, 6-30-87, Cl. 105-168.000.

Bullock, Thomas W., Jr. Protective coatings and method for protecting tank car containers. 4,673,102, 6-16-87, Cl. 220-457.000.

Bulmahn, Gerald L. Apparatus for extending the frame of a tractor. 4,679,634, 7-14-87, Cl. 172-250.000.

Bulman, Melvin J., to General Electric Company. Seal. 4,711,153, 12-8-87, Cl. 89-7.000.

Bulmer, Catherine H.; and Burns, William K., to United States of America, Navy. Polarization-independent switch with coupler spacing optimized for low voltage operation. 4,674,829, 6-23-87, Cl. 350-96.140.

Bulot, Eric: *See*—

Willson, Richard C., III; Bulot, Eric; and Cooney, Charles L., 4,678,583, Cl. 210-638.000.

Bulova Watch Co., Inc.: *See*—

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Bulow, Roland E., to Mobil Oil Corporation. Rotating multi-path fluid manifold. 4,639,228, 1-27-87, Cl. 441-5.000.

Bulso, Joseph D., Jr.; and McClung, James A., to Redicon Corporation. Method and apparatus for forming containers. 4,696,177, 9-29-87, Cl. 72-379.000.

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Bulst, Wolf-Eckhart; Erthel, Mira; and Zibis, Peter, to Siemens Aktiengesellschaft. Filter functioning with acoustic waves. 4,679,014, 7-7-87, Cl. 333-195.000.

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Bulten-Kanthal AB: *See*—

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Bultman, Marten; and Wilding, Edwin L., to Griffin & Company, Inc. Cleated channel belt conveyor. 4,708,238, 11-24-87, Cl. 198-835.00

Bum, Choi W.: *See*—

Hyun, Choi J.; Chul, Lee J.; and Bum, Choi W., 4,691,106, Cl. 250-349.000.

Buma, Mitsuo; Yuda, Sadayuki; Sato, Masatsune; and Okada, Mitsuo, t Sankin Kogyo Kabushiki Kaisha. Method of preparing impressio taking and molding materials and dental diagnosing/treating chemical materials used in the method. 4,689,079, 8-25-87, Cl. 106-35.00

Buma, Shuuichi, to Toyota Jidosha Kabushiki Kaisha. Suspension for vehicle. 4,635,906, 1-13-87, Cl. 267-8.00R.

Buma, Shuuichi, to Toyota Jidosha Kabushiki Kaisha. Coupling construction of shock absorber. 4,651,977, 3-24-87, Cl. 267-8.00R.

Buma, Shuuichi, to Toyota Jidosha Kabushiki Kaisha. Suspension for vehicle. 4,653,735, 3-31-87, Cl. 267-8.00R.

Buma, Shuuichi, to Toyota Jidosha Kabushiki Kaisha. Air suspension. 4,659,070, 4-21-87, Cl. 267-64.250.

Buma, Shuuichi, to Toyota Jidosha Kabushiki Kaisha. Change-over valve for air suspension. 4,660,810, 4-28-87, Cl. 267-64.250.

Buma, Shuuichi; Yokoya, Yuji; Araki, Hitoshi; Hirose, Masanori; Miyata, Hiroshi; and Ohashi, Kaoru, to Toyota Jidosha Kabushiki Kaisha. Air suspension. 4,666,135, 5-19-87, Cl. 267-64.210.

Buma, Shuuichi, to Toyota Jidosha Kabushiki Kaisha. Check valve for air suspension mechanism. 4,671,323, 6-9-87, Cl. 137-846.000.

Buma, Shuuichi, to Toyota Jidosha Kabushiki Kaisha. Air suspension. 4,673,171, 6-16-87, Cl. 267-8.00R.

Buma, Shuuichi, to Toyota Jidosha Kabushiki Kaisha. Air suspension. 4,690,430, 9-1-87, Cl. 280-708.000.

Buma, Shuuichi; Onuma, Toshio; Ohashi, Kaoru; and Itou, Masami, to Toyota Jidosha Kabushiki Kaisha. Suspension controller. 4,693,49 9-15-87, Cl. 280-707.000.

Buma, Shuuichi; and Horiyama, Osamu, to Toyota Jidosha Kabushiki Kaisha. Construction of control valve for air suspension. 4,712,775, 12-15-87, Cl. 267-220.000.

Buma, Shuuichi; Onuma, Toshio; Ohashi, Kaoru; and Itou, Masami, t Toyota Jidosha Kabushiki Kaisha. Suspension controller. 4,714,271 12-22-87, Cl. 280-707.000.

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Buma, Shuuichi: *See*—

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Asami, Ken; Ohashi, Kaoru; Onuma, Toshio; and Buma, Shuuich 4,647,068, Cl. 280-707.000.

Asami, Ken; Ohashi, Kaoru; Onuma, Toshio; and Buma, Shuuichi 4,667,978, Cl. 280-707.000.

Asami, Ken; Ohashi, Kaoru; Onuma, Toshio; and Buma, Shuuichi 4,671,533, Cl. 280-707.000.

Asami, Ken; Onuma, Toshio; Ohashi, Kaoru; and Buma, Shuuich 4,690,429, Cl. 280-707.000.

Asami, Ken; Ohashi, Kaoru; Onuma, Toshio; and Buma, Shuuichi 4,715,616, Cl. 280-707.000.

Yokoya, Yuji; Buma, Shuuichi; Araki, Hitoshi; Miyata, Hiroshi; Hirose, Masanori; and Ohashi, Kaoru, 4,648,621, Cl. 280-707.00

Bumbaca, Domenic J.: *See*—

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Bumble, Bruce; Cuomo, Jerome J.; Logan, Joseph S.; and Rossnagel, Steven M., to International Business Machines Corporation. Hollow cathode enhanced plasma for high rate reactive ion etching and deposition. 4,637,853, 1-20-87, Cl. 156-345.000.

Bumgardner, Jon H.: *See*—

Anderson, Vernon A.; Hinman, Daryl E.; and Bumgardner, Jon H., 4,661,987, Cl. 382-41.000.

Bumgardner, Teddy E.: *See*—

Dills, Randall C.; Bumgardner, Teddy E.; Monroe, Lusbert L.; and Zimmermann, Jeffery D., 4,708,222, Cl. 187-1.00R.

Bumpers, Norman R., to MicroSpun Technologies Inc. Rotating filte apparatus for separating fine particles of solids from a liquid 4,698,156, 10-6-87, Cl. 210-331.000.

Bunce, Kevin: *See*—

Chant, Nigel A.; Mosse, Richard W. E.; and Bunce, Kevi 4,648,421, Cl. 137-312.000.

Bunch, Graham; and Dawes, Richard G., to British Petroleum Com pany p.l.c., The. Process for the treatment of boiler condensat 4,638,766, 1-27-87, Cl. 122-398.000.

Bunch, Matthew L.; Price, J. B.; and Stitz, Robert W., to Spectru CVD, Inc. CVD heat source. 4,640,224, 2-3-87, Cl. 118-725.000.

Bunch, Richard P.: *See*—

O'Rourke, John J.; and Bunch, Richard P., 4,676,011, Cl. 36-89.00

Parracho, Rui M.; Smith, Lloyd S.; Bunch, Richard P.; and Gros Alexander L., 4,638,576, Cl. 36-68.000.

Bunch, Wayne R.: *See*—

Vranish, John M.; Bunch, Wayne R.; and Johns, William L 4,707,013, Cl. 294-119.100.

Bunch, Wilbur L.; and Schenter, Robert E., to United States of America, Energy. Solid tags for identifying failed reactor components. 4,657,729, 4-14-87, Cl. 376-251.000.

Bundesrepublik Deutschland: *See*—

  Dopheide, Dietrich, 4,669,876, Cl. 356-285.000.

Bundgaard, Hans; and Falch, Erik, to A/S GEA. Acyl- or acyloxymethyl-allopurinol prodrugs. 4,694,006, 9-15-87, Cl. 514-258.000.

Bundschuh, Robert L. Pump dispenser with slidable trigger. 4,640,444, 2-3-87, Cl. 222-321.000.

Bundschuh, Robert L. Retraction device for doors or windows. 4,675,938, 6-30-87, Cl. 16-63.000.

Bundy, Donald E.; and Bundy, Ronald W., to Judd & Judd, Inc. Apparatus for mounting a trailer hitch on a vehicle. 4,634,163, 1-6-87, Cl. 293-117.000.

Bundy, Mark A.; and Leyser, Larry J. Transluminal lysing system. 4,653,496, 3-31-87, Cl. 128-305.000.

Bundy, Robert S.: *See*—

  Guinn, William H., Jr.; Corbett, Richard M.; Bundy, Robert S.; Seaman, Jeffrey M.; Duncan, Keith B.; and Link, Charles M., II, 4,642,425, Cl. 379-57.000.

Bundy, Ronald W.: *See*—

  Bundy, Donald E.; and Bundy, Ronald W., 4,634,163, Cl. 293-117.000.

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  Bradford, Peter F.; Bungay, Michael R.; and Kember, Christopher J., 4,646,703, Cl. 123-557.000.

Bunge, Daniel C.; Cooper, James J.; Willshier, Fred A.; and Stichensedt, Edward F., to Southern Seafoods. Trommel eviscerator. 4,675,946, 6-30-87, Cl. 17-45.000.

Bunge, Richard H.; French, James C.; Hurley, Timothy R.; and Willmer, Neil E., to Warner-Lambert Company. CL-1957D antibiotic compound and its production. 4,696,794, 9-29-87, Cl. 424-118.000.

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  Hokanson, Gerard C.; Bunge, Richard H.; Hurley, Timothy R.; and French, James C., 4,680,416, Cl. 549-292.000.

Bunger, David A.; Munch, Walter; and Withington, Russell L., to Baldwin Piano & Organ Company. Rythm rate and tempo monitor for electronic musical instruments having automatic rhythm accompaniment. 4,655,113, 4-7-87, Cl. 84-1.030.

Bungeroth, Herbert; and Wessel, Otto, to Mannesmann Aktiengesellschaft. Process for the production of an ingot. 4,697,631, 10-6-87, Cl. 164-46.000.

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  Thiel, Rudolph; Klimt, Ulrich; and Bungert, Hans, 4,658,938, Cl. 188-73.380.

Bungert, Heinrich; Ulmen, Mathias; and Wenz, Herbert, to Pfaff Industriemaschinen GmbH. Sewing machine with step motor operated feed device. 4,643,118, 2-17-87, Cl. 112-318.000.

Bungert, Heinrich; and Wenz, Herbert, to Pfaff Industriemaschinen GmbH. Sewing machine with step motor operated oscillation drive. 4,671,197, 6-9-87, Cl. 112-310.000.

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  Wentz, Klaus; and Bungert, Heinrich, 4,643,117, Cl. 112-315.000.

Bungo, Edward M.: *See*—

  Sovacool, David K.; Van Slyke, Allan S.; and Bungo, Edward M., 4,638,964, Cl. 248-56.000.

Bunick, Frank J.; Hutchinson, Sheryl A.; and Cifrese, Ralph, to Warner-Lambert Company. Soft, sugarless aerated confectionery composition. 4,714,620, 12-22-87, Cl. 426-572.000.

Buniff, Egbert D. N. Telescoping measuring stick with signal means. 4,638,563, 1-27-87, Cl. 33-169.00R.

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Bunk, Axel; Eichelbronner, Gottfried; Haake, Rainer; Stadler, Karl; and Gaugel, Manfred, to Patent Treuhand -Gesellschaft fur elektrische Gluhlampen m.b.H. Method to introduce a fill gas mixture into an electric light bulb, particularly halogen incandescent lamp. 4,659,318, 4-21-87, Cl. 445-54.000.

Bunk, Klaus: *See*—

  Weidenauer, Werner; Leukel, Bernd; and Bunk, Klaus, 4,700,879, Cl. 228-123.000.

Bunk, Stanley A.: *See*—

  Vogt, Frederich H.; Bunk, Stanley A.; and D'Acierno, John P., 4,700,636, Cl. 110-165.00A.

Bunker, James E., to Minnesota Mining and Manufacturing Company. Dentin and enamel adhesive. 4,669,983, 6-2-87, Cl. 433-217.100.

Bunker, James E., to Minnesota Mining and Manufacturing Company. Polymerizable phosphorus esters. 4,670,576, 6-2-87, Cl. 558-182.000.

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  Bajgert, Teddy A.; Bunker, Neall H.; Cochran, James L.; Duane, Willis J.; and Mojica, Arturo, 4,714,946, Cl. 355-75.000.

Bunker, Peter F.; and Scott, Michael J., to Bestobell (UK) Limited. Excessive gas flow detector. 4,668,943, 5-26-87, Cl. 340-606.000.

Bunker Plastics, Inc.: *See*—

  Perkinson, William S.; and Djerf, Villy E., 4,692,372, Cl. 428-282.000.

Bunker, Robert L. Portable tree seat and platform for standing. 4,691,804, 9-8-87, Cl. 182-187.000.

Bunker, William M.; and Merz, Donald M., to General Electric Company. Method of comprehensive distortion correction for a computer image generation system. 4,714,428, 12-22-87, Cl. 434-43.000.

Bunkoczy, Bela; Wendorff, James A.; and Battin, Walt W., to Garrett Corporation, The. Laminate bonding methods for nonferrous metallic fluidic devices. 4,702,969, 10-27-87, Cl. 428-635.000.

Bunn-O-Matic Corporation: *See*—

  Foley, Henry L., 4,676,148, Cl. 99-279.000.

  Nidiffer, Charles A.; and Van Camp, Raymond E., 4,685,624, Cl. 241-36.000.

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  Stover, Kenneth W., 4,676,149, Cl. 99-285.000.

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  Zimmerman, John D., 4,642,190, Cl. 210-464.000.

Bunn, Robert F. Fingerprint identification system. 4,641,350, 2-3-87, Cl. 382-4.000.

Bunney, LeRoy R. Apparatus for separating logs. 4,662,505, 5-5-87, Cl. 198-443.000.

Bunning, Ernst; and Hutchins, Wayne, to Maremont Corporation. Barrel alignment device in automatic weapon. 4,685,235, 8-11-87, Cl. 42-75.020.

Bunschoten, Gerrit K., to Lever Brothers Company. Liquid-dispensing container. 4,640,441, 2-3-87, Cl. 222-207.000.

Bunshah, Roitan F.: *See*—

  Chopra, Kasturi L.; Bunshah, Roitan F.; Deshpandey, Chandra V.; and Vankar, Vasant D., 4,714,625, Cl. 427-35.000.

Bunthoff, Dirk; and Hildebrandt, Rainer, to Deutsche Babcock Werke Aktiengesellschaft. Nozzle for injecting solids pneumatically. 4,660,768, 4-28-87, Cl. 239-423.000.

Bunting, Franklin O.; and Hudson, J. Russell, to Gaffney, Richard W.; and Walker, Oliver M. Field decoy transport device. 4,637,647, 1-20-87, Cl. 296-24.00R.

Bunting, John A.; Pope, Louis M.; and Clark, James L., to Precorp, Inc. Printed circuit board drill and method of manufacture. 4,713,286, 12-15-87, Cl. 428-323.000.

Bunting, Larry T. Article heating cabinet. 4,684,787, 8-4-87, Cl. 219-400.000.

Bunting, Terry N., to Advanced Extraction Technologies, Inc. Process for extractive-stripping of lean hydrocarbon gas streams at high pressure with a preferential physical solvent. 4,695,672, 9-22-87, Cl. 585-867.000.

Bunton, Michael W., to Sunbeam Corp. Ltd. Outdoor grill. 4,667,652, 5-26-87, Cl. 126-25.00R.

Buntsis, Frank; and Reifsteck, Christopher, to Buntsis, Frank. Automatic program source selection method and apparatus. 4,644,423, 2-17-87, Cl. 360-61.000.

Bunyan, Glen W.: *See*—

  Phillips, Ian R.; Lodge, Robert H.; and Bunyan, Glen W., 4,642,099, Cl. 604-136.000.

  Phillips, Ian R.; Lodge, Robert H.; and Bunyan, Glen W., 4,673,387, Cl. 604-62.000.

Bunz, Lewis A.: *See*—

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Bunza, Peter; and Cross-Hansen, Alan, to Denpac Corp. High temperature vacuum furnace. 4,702,696, 10-27-87, Cl. 432-205.000.

Buoli, Carlo, to GTE Telecomunicazioni S.p.A. Directional couplers of the branchline type. 4,697,161, 9-29-87, Cl. 333-116.000.

Buon, Georges A.: *See*—

  Schmukler, Charles S.; and Buon, Georges A., 4,710,643, Cl. 250-573.000.

Buonocore, Michael H., to Resonex. Imaging method for nuclear magnetic resonance utilizing balanced gradient fields. 4,651,096, 3-17-87, Cl. 324-309.000.

Buonomo, Franco: *See*—

  Bellussi, Giuseppe; Buonomo, Franco; Esposito, Antonio; Clerici, Mario; Romano, Ugo; and Notari, Bruno, 4,701,428, Cl. 502-8.000.

Buote, William J., to Zymark Corporation. Self-configuring computerized robot control system with call-back feature. 4,689,755, 8-25-87, Cl. 364-513.000.

Bupara, Sargit S., to Exxon Printing Systems, Inc. Method and apparatus for a high density array printer using hot melt inks. 4,675,694, 6-23-87, Cl. 346-1.100.

Burack, Robert D.: *See*—

  Wilhelm, John J.; Burack, Robert D.; Klorcyzk, Fredrick J.; and Crossley, Thomas J., 4,671,326, Cl. 138-93.000.

Burak, Nathan: *See*—

  Atkinson, Colin; Brace, Roger; and Burak, Nathan, 4,661,333, Cl. 423-328.000.

Burandt, Corliss O., to Investment Rarites, Incorporated. Valve actuating apparatus for minimizing the need for lash adjustment. 4,638,772, 1-27-87, Cl. 123-90.600.

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Buras, Sharon Y. Conduit system for directly administering topical anaesthesia to blocked laryngeal-tracheal areas. 4,693,243, 9-15-87, Cl. 128-207.150.

Burba, Christian; Goeke, Ulrich; and Esper, Norbert, to Schering AG. Polyvinyl chloride plastisols. 4,673,710, 6-16-87, Cl. 525-111.500.

Burba, John L., III; and Barnes, Audrey L., to Dow Chemical Company, The. Mixed metal layered hydroxide-clay adducts as thickeners for water and other hydrophylic fluids. 4,664,843, 5-12-87, Cl. 252-315.500.

Burbank, John E., III: *See—*

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Burbidge, George A.; and Stuart, Judy E., to Atomic Energy of Canada Limited. High pressure well radioisotope injection system. 4,659,925, 4-21-87, Cl. 250-260.000.

Burbury, Robert L. Method and apparatus for automatically self-cleaning film processors. 4,650,308, 3-17-87, Cl. 354-299.000.

Burch, Kenneth R.: *See—*

Little, Wendell L., and Burch, Kenneth R., 4,669,059, Cl. 364-900.000.

Burcham, James T.: *See—*

Woods, Theodore E.; Cole, Jimmy R.; and Burcham, James T., 4,709,355, Cl. 367-16.000.

Burcham, Larry R.: *See—*

Cartmell, James V.; Burcham, Larry R.; and Wolf, Michael I., 4,635,642, Cl. 128-639.000.

Cartmell, James V.; Allaire, Michael J.; Burcham, Larry R.; and Patrick, Charles T., Jr., 4,685,467, Cl. 128-640.000.

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Burchell, Donald J., Jr.; and Peffley, Richard D., to Dow Chemical Company, The. Polyurethane elastomers prepared from high molecular weight prepolymers. 4,701,476, 10-20-87, Cl. 521-159.000.

Burchell, Steven P.; Kerley, Nicholas W.; and Mellor, David W., to British Petroleum Company p.l.c., The. Cryogenic cell. 4,658,601, 4-21-87, Cl. 62-514.00R.

Burchett, Donald. Inflatable elastomeric balloons having increased buoyant lifetimes. 4,634,395, 1-6-87, Cl. 446-222.000.

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Burchett, Roger: *See—*

Sutera, Richard, and Burchett, Roger, 4,651,163, Cl. 346-75.000.

Burchfiel, Loyal E.; and Baker, John M., to J. B. Enterprises. Auxiliary switching circuit. 4,661,719, 4-28-87, Cl. 307-38.000.

Burchmore, William: *See—*

Drolet, Denis; Burchmore, William; and Drolet, Leo, 4,684,130, Cl. 273-67.00A.

Burckett St. Laurent, James C. T.; and Busch, Alfred, to Procter & Gamble Company, The. Detergent with fabric softener. 4,698,167, 10-6-87, Cl. 252-8.800.

Burckhalter, Joseph H. Method of inhibiting herpetic lesions. 4,714,703, 12-22-87, Cl. 514-274.000.

Burckhardt America, Inc.: *See—*

Vernon, Thomas, 4,712,369, Cl. 57-417.000.

Burckhardt, Christoph B.: *See—*

Abbott, John G.; Burckhardt, Christoph B.; Grandchamp, Pierre-Andre; Krummenacher, Peter; and Schlaepfer, Claude, 4,649,926, Cl. 128-660.000.

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Burckhardt, Klaus A.; and Brodbeck, Howard D., to MG Industries. Debonding process for removing non-metallic coatings from metal hangers. 4,705,574, 11-10-87, Cl. 134-17.000.

Burckhardt, Lennie L. Dry pellet dispensing apparatus. 4,676,399, 6-30-87, Cl. 221-207.000.

Burckhardt, Manfred; and Zimmer, Richard, to Daimler-Benz Aktiengesellschaft. Control system for an automatic all wheel drive vehicle. 4,702,337, 10-27-87, Cl. 180-197.000.

Burckhardt, Manfred, to Daimler-Benz Aktiengesellschaft. Cooled hydraulic high-performance brake system for motor vehicles. 4,706,459, 11-17-87, Cl. 60-562.000.

Burckhardt, Rainer. Dental device. 4,687,003, 8-18-87, Cl. 128-777.000.

Burd, Bartz & Gutenkauf: *See—*

Albertson, Robert V., 4,645,876, Cl. 379-143.000.

Burd, John F.: *See—*

Buckler, Robert T.; Burd, John F.; and Thompson, Stephan G., 4,650,771, Cl. 436-536.000.

Burd, Samuel; and Chu, Daniel Y., to Bio-Rad Laboratories, Inc. Method and apparatus for extraction of species from electrophoresis media. 4,699,706, 10-13-87, Cl. 204-301.000.

Burden, George S.: *See—*

McGovern, Terrence P.; Schreck, Carl E.; and Burden, George S., 4,675,342, Cl. 514-613.000.

Burden, Stephen J., to GTE Valeron Corporation. High toughness silicon nitride cutting tools. 4,652,276, 3-24-87, Cl. 51-308.000.

Burdeska, Kurt; Kabas, Guglielmo, deceased (by Kabas-Maskulinski, Anni, legal heir); Brunner, Hans-Georg; and Fory, Werner, to Ciba-Geigy Corporation. Phenylpyrimidines as antidotes for protecting cultivated plants against phytotoxic damage caused by herbicides. 4,674,229, 6-23-87, Cl. 47-57.600.

Burdeska, Kurt: *See—*

Brunner, Hans-Georg; Burdeska, Kurt; and Fory, Werner, 4,698,091, Cl. 71-87.000.

Burdess, James S., to National Research Development Corporation. Gyroscopic devices. 4,655,081, 4-7-87, Cl. 73-505.000.

Burdett, Kenneth A.: *See—*

Farquharson, Richard A.; Reierson, Robert L.; and Burdett, Kenneth A., 4,666,706, Cl. 424-408.000.

Burdett, Savile. Method and device for controlling an apparatus. 4,652,801, 3-24-87, Cl. 318-481.000.

Burdette, Everette C.: *See—*

Badger, Christopher W.; Burdette, Everette C.; Leach, Steve
and McCarthy, John F., 4,638,436, Cl. 364-414.000.

Burdette, Fred E.; Fleury, Jean-Luc; and Rowler, Manfred, to Ga
Corporation, The. Gas seal vanes of variable nozzle turb
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Corporation, The. Gas seal vanes of variable nozzle turb
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Burdi, Roger D.: *See—*

Getz, Edward H., and Burdi, Roger D., 4,654,924, Cl. 15-319.0

Getz, Edward H.; Werner, Kurt; and Burdi, Roger D., 4,706,1
Cl. 15-319.000.

Burdick, Jon S.; and Corcoran, Paul T., to Caterpillar Inc. Track de
having toothed grousers. 4,637,665, 1-20-87, Cl. 305-54.000.

Burdick, Patricia E.: *See—*

Bauman, Bernard D., and Burdick, Patricia E., 4,692,470, C
521-55.000.

Burdick, William S., to Sundstrand Data Control, Inc. Timing circ
for varying the horizontal format of raster scanned display. 4,686,5
8-11-87, Cl. 358-150.000.

Bureau Technique du Batiment, d'Amenagements et de Construction
See—

Brullmann, Cuno; Lavergnolle, Armand F.; and [illegible]
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Burelbach, James P.; Kann, William J.; Pan, Yen-Cheng; Savea
James G.; and Seidensticker, Ralph W., to United States of Americ
Energy. Hanging core support system for a nuclear react
4,645,638, 2-24-87, Cl. 376-254.000.

Burell, John A.; and Mason, Joseph, to Loadmaster Systems, Inc. So
excavating sleeve. 4,644,715, 2-24-87, Cl. 52-170.000.

Buren, Ingo: *See—*

Rodrigues, Pedro; Buren, Ingo; and Timm, Jurgen, 4,671,985, C
428-215.000.

Buren, Lawrence L.; James, Donald R.; Randolph, Barney J.; Teach
Eugene G.; Tilles, Harry; and Walker, Francis H., to Stauffer Chemi
cal Company. S-benzyl thiolcarbamates and their use in controlling
weeds in rice fields. 4,695,314, 9-22-87, Cl. 71-100.000.

Burford, Charles E., to Burford Corp. Dispenser for particulate mate
rial. 4,715,315, 12-29-87, Cl. 118-684.000.

Burford Corp.: *See—*

Burford, Charles E., 4,715,315, Cl. 118-684.000.

Burg, Gary R.; Prewitt, William T.; and Vandyke, James A., to Good
year Tire & Rubber Company, The. Rheometer (rheological/viscoela
tic measuring apparatus and technique. 4,667,519, 5-26-87, C
73-815.000.

Burg, Karlheinz: *See—*

Muck, Karl-Friedrich, and Burg, Karlheinz, 4,703,129, C
549-368.000.

Burg, Stanley P. Hypobaric storage of non-respiring animal matte
without supplementary humidification. 4,655,048, 4-7-87, C
62-78.000.

Burg, Stanley P. Hypobaric storage of respiring plant matter witho
supplementary humidification. 4,685,305, 8-11-87, Cl. 62-78.000.

Burgard, Francis A. Mounting device and method of use. 4,636,12
1-13-87, Cl. 411-389.000.

Burgard, Francis A. Child safety strap. 4,637,622, 1-20-87, Cl. 2
33.99B.

Burgard, Francis A. Inertial stabilizer for archery bow. 4,660,5
4-28-87, Cl. 124-89.000.

Burgdorf, Jochen, to Alfred Teves GmbH. Device for monitoring a hydraulic brake system for vehicles. 4,653,813, 3-31-87, C
303-50.000.

Burgdorf, Jochen, to Alfred Teves GmbH. Power brake booster for a hydraulic vehicle brake system. 4,653,814, 3-31-87, Cl. 303-52.000.

Burgdorf, Jochen; and Weiler, Rolf, to ITT Industries, Inc. Low-pressure casing for a brake booster. 4,655,119, 4-7-87, Cl. 92-169.000.

Burgdorf, Jochen; and Weise, Lutz, to Alfred Teves GmbH. Slip-controlled brake system for motor vehicles. 4,657,312, 4-14-87, Cl. 303-92.000.

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Burgdorf, Jochen; and Weise, Lutz, to Alfred Teves GmbH. Braking pressure generator for slip-controlled brake systems of automotive vehicles. 4,682,824, 7-28-87, Cl. 303-92.000.

Burgdorf, Jochen; and Weisbrod, Helmut, to International Standard Electric Corporation. Low-wear frictionally engaging device. 4,715,486, 12-29-87, Cl. 192-107.00M.

Burgdorf, Jochen: *See—*

Belart, Juan; Burgdorf, Jochen; Bleckmann, Hans W.; Weise, Lutz; and Seibert, Wolfram, 4,641,895, Cl. 303-119.000.

Belart, Juan; Burgdorf, Jochen; Weise, Lutz; and Seibert, Wolfram, 4,685,747, Cl. 303-114.000.

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Burge, Edward V. Mud valve. 4,658,905, 4-21-87, Cl. 166-373.000.

Burge, Theodor A.; and Schweizer, Reinhard, to Sika AG, vorm. Kaspar Winkler & Co. Process for preparing a building and/or construction material, a polymer modified aqueous dispersion, and use thereof for the preparation of a building and/or construction material. 4,686,252, 8-11-87, Cl. 524-3.000.

Burger, Donald A., to LRC Electronics, Inc. BNC security shiel
4,645,281, 2-24-87, Cl. 339-37.000.

Burger, Frank; and Herzog, Thomas. Frame system, especially for racks and interior fixtures. 4,660,346, 4-28-87, Cl. 52-648.000.

Burger, Fredric W.: See—

Winkler, Theodore; and Burger, Fredric W., 4,660,822, Cl. 271-10.000.

Burger, Friedhelm: See—

Lahmann, Ernst; Walder, Werner; and Burger, Friedhelm, 4,634,160, Cl. 292-336.300.

Burger, Helmut; and Sumser, Siegfried, to Daimler-Benz Aktiengesellschaft. Rotor for a gas turbine. 4,652,212, 3-24-87, Cl. 416-188.000.

Burger, Helmut: See—

Sumser, Siegfried; and Burger, Helmut, 4,653,275, Cl. 60-602.000.

Burger, Jacques; Gadelle, Claude; and Salle de Chou, Jacques, to Institut Francais du Petrole. Method of consolidating a geological formation by thermal polymerization. 4,685,836, 8-11-87, Cl. 405-264.000.

Burger, Kalman: See—

Nagy, Geza T.; Szepesi, Gabor; Gazdag, Maria; Papp nee Sziklay, Zsofia; and Burger, Kalman, 4,684,638, Cl. 314-185.000.

Burger, Kurt Friedrich; Heinz, Molkner, Thomas; and Schottle, Peter, to Robert Bosch GmbH. Temperature dependent electric resistor probe and a method of making the same. 4,708,769, 11-24-87, Cl. 156-659.100.

Burger, Mark F.; George, Steven L.; and Ngai, Chuck H., to Interna- onal Business Machines Corporation. Instruction buffer bypass apparatus. 4,633,194, 1-6-87, Cl. 364-200.000.

Burger, Norman D., to Burger, Norman D.; and Mardesich, Nicholas A., a part interest. Aerosol dispensing system. 4,680,173, 7-14-87, Cl. 424-47.000.

Burger, Rainer, to President Engineering Corporation. Process for manufacturing multilayer PC boards. 4,702,785, 10-27-87, Cl. 156-91.000.

Burger, Raymond: See—

Sauer, Claude; Burger, Raymond; Reguigne, Gabriel; and Kern, Mark, 4,690,874, Cl. 428-537.100.

Burger, Rudolf: See—

Kohler, Gerd; and Burger, Rudolf, 4,655,674, Cl. 414-735.000.

Kohler, Gerd; and Burger, Rudolf, 4,661,038, Cl. 414-730.000.

Burger, Walter: See—

Doschend, Hans L.; and Burger, Walter, 4,659,174, Cl. 350-96.230.

Burger, William R.: See—

Allocco, Carmen, Jr.; and Burger, William R., 4,660,819, Cl. 271-3.100.

Burgers, Henri T.: See—

Comer, Russell E.; Burgers, Henri T.; and Stowers, Jeffery P., 4,667,155, Cl. 324-158.00F.

Sheets, Donald L.; Hoover, Sherwood A.; Hunt, Ronnie D.; and Burgers, Henri T., 4,655,530, Cl. 339-126.00R.

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urgess, Allan C.; Lussow, Robert O.; and Melvin, George E., to International Business Machines Corporation. Multiple voltage integrated circuit packaging substrate. 4,649,417, 3-10-87, Cl. 357-80.000.

urgess & Associates Mfg., Inc.: See—

Burgess, Harry L., [illegible] 251, Cl. 55-190.000.

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urgess, Dennis A.; Campbell, William J.; and Saldenais, Arvids, to Burgess Industries Inc. Progressive directional evacuation of vacuum opy frames. 4,676,633, 6-30-87, Cl. 355-91.000.

urgess, Ernest M.: See—

Poggi, Donald L.; Burgess, Ernest M.; Moeller, David E.; and Hittenberger, Drew A., 4,645,509, Cl. 623-55.000.

urgess, George, to Contra-Shear Holdings Limited. Rotary screen. 4,661,252, 4-28-87, Cl. 210-402.000.

urgess, Harry L., to Burgess & Associates Mfg., Inc. Mud pump degassing and supercharging apparatus. 4,668,251, 5-26-87, Cl. 55-190.000.

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gess, John R.: See—

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- Burkman, Don C.; Schumacher, David D.; and Peterson, Charlie A., to FSI Corporation. Rinsing in acid processing of substrates. 4,682,615, 7-28-87, Cl. 134-102.000.
- Burkner, Wolfgang H., to Carl Schenck AG. Method and apparatus for longitudinal orientation of wood chips. 4,666,029, 5-19-87, Cl. 198-382.000.
- Burkness, Donald C. Self diagnostic Cyclic Analysis Testing System (CATS) for LSI/VLSI. 4,680,761, 7-14-87, Cl. 371-25.000.
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- Burleson, James C., to Ozo-Tek, Inc. Method and apparatus for the generation and utilization of ozone and singlet oxygen. 4,640,782, 2-3-87, Cl. 210-748.000.
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  - Hussamy, Samir, 4,705,527, Cl. 8-558.000.
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  - Anderson, James D., 4,641,428, Cl. 29-863.000.
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  - Cheh, Ernest L., 4,666,199, Cl. 294-106.000.
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  - Feldberg, Leonard; and Williams, Dennis, 4,676,576, Cl. 439-404.000.
  - Lomecka, Chris, 4,671,601, Cl. 439-404.000.
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- Burness, Bruce: *See*—
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  - Sarwinski, Raymond E.; Purcell, John R.; Parker, Judson W.; and Burnett, Sibley C., 4,680,936, Cl. 62-45.000.
- Burnett, Susan E.: *See*—
  - Shikata, Hiroaki; Turner, Jerry; Hirotsu, Dennis O.; and Burnett, Susan E., 4,661,102, Cl. 604-385.00A.
- Burnett, T. J. Chicken deboning apparatus and method. 4,648,155, 3-10-87, Cl. 17-46.000.
- Burnett, Tobias W. T.: *See*—
  - Schlonski, James S.; and Burnett, Tobias W. T., 4,692,297, Cl. 376-211.000.
- Burnett, Wilbur B., to Milliken Research Corporation. Weft yarn end control arrangement. 4,653,546, 3-31-87, Cl. 139-370.200.
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- Burney, Charles F., to A.R.A. Manufacturing Company of Delaware, Inc. Electric motor servo control system and method. 4,656,407, 4-7-87, Cl. 318-626.000.
- Burney, Ivan T.: *See*—
  - Crookston, Ronald W.; and Burney, Ivan T., 4,686,337, Cl. 200-148.00F.
- Burnham, Bruce F.: *See*—
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  - Norton, Jerry; and Burnham, Duane, 4,667,971, Cl. 279-121.000.
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Burrows, James L., to Sanders Associates, Inc. Simulation apparatus and method. 4,694,411, 9-15-87, Cl. 364-578.000.

Burrows, Larry G.: *See—*

  Bowsky, Benjamin; Honkomp, Glenn A.; Burrows, Larry G.; and Wilson, Edward E., 4,702,976, Cl. 429-181.000.

  Bowsky, Benjamin; Honkomp, Glenn A.; Burrows, Larry G.; and Wilson, Edward E., 4,707,424, Cl. 429-181.000.

Burrows, Philip J. Measuring guide for saw and measuring guide system. 4,638,564, 1-27-87, Cl. 33-185.00R.

Burrows, Richard W.: *See—*
  Benson, David K.; and Burrows, Richard W., 4,702,853, Cl. 252-70.000.
Burrus, Charles A., Jr.; Kohl, Paul A.; Lee, Tien P.; and Ostermayer, Frederick W., Jr., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Fabrication of cleaved semiconductor lasers. 4,689,125, 8-25-87, Cl. 204-129.300.
Burrus, Gilbert S., Jr.; Cooper, Ronald J.; Marr, Michael R.; Pescatore, John C.; and Marsico, Mario A., to International Business Machines Corporation. Multiple port integrated DMA and interrupt controller and arbitrator. 4,716,523, 12-29-87, Cl. 364-200.000.
Bursch, Annegrete: *See—*
  Crass, Guenther; Bursch, Annegrete; and Hammerschmidt, Peter, 4,673,611, Cl. 428-215.000.
Bursk, William M., to Pease Industries, Inc. Patio door assembly with removable astragal. 4,644,696, 2-24-87, Cl. 49-367.000.
Bursk, William M., to Pease Industries, Inc. Door frame and assembly method therefor. 4,662,112, 5-5-87, Cl. 49-380.000.
Burson, Audrey F.; and Gotway, Jerome M., to AT&T Information Systems Inc. Electrical connector apparatus. 4,653,823, 3-31-87, Cl. 339-17.00F.
Burson, Klye L.; Campbell, Scott O.; Ganesan, Apparajan; and Morrison, Ronald A., to American Telephone and Telegraph Company, AT&T Technologies Inc. Frequency comparator circuits. 4,677,322, 6-30-87, Cl. 307-525.000.
Burst, Hermann: *See—*
  Reichel, Anton; Lohmann, Bernard; Kolb, Eugen; Hochkonig, Manfred; Burst, Hermann; and Kretschmer, Helmut, 4,690,204, Cl. 165-44.000.
Burst, Wolfram: *See—*
  Muller, Josef; Wiersdorff, Walter-Wielant; Burst, Wolfram; Dralle, Heinz; Schaffner, Ernst; and Steinkamp, Rolf, 4,661,610, Cl. 558-344.000.
Burstein, A. Lincoln; and Burstein, Roy. Method and apparatus for control of fluids. 4,685,534, 8-11-87, Cl. 181-251.000.
Burstein, Albert H.: *See—*
  Ranawat, Chitranjan S.; Straub, Lee R.; Inglis, Allan E.; and Burstein, Albert H., 4,714,476, Cl. 623-21.000.
Burstein, Paul; Krieger, Allen; Annis, Martin; and Chase, Richard C., to American Science and Engineering, Inc. High energy computed tomography. 4,691,332, 9-1-87, Cl. 378-7.000.
Burstein, Roy: *See—*
  Burstein, A. Lincoln; and Burstein, Roy, 4,685,534, Cl. 181-251.000.
Burstell, Helmut: *See—*
  Schulze, Ernst-Friedrich; Burstell, Helmut; and Hacker, Erwin, 4,637,828, Cl. 71-76.000.
Burstrom, Martin; and Tegman, Ragnar, to ASEA Aktiebolag. Method of containing radioactive or other dangerous waste material and a container for such waste material. 4,642,204, 2-10-87, Cl. 252-633.000.
Burt, Daryl D.; and Haskell, Monty E., to Adolph Coors Company. System for determining the torque required to loosen a threaded cap. 4,674,340, 6-23-87, Cl. 73-862.230.
Burt DuPont, Blanche A. Physical therapy device. 4,637,604, 1-20-87, Cl. 272-73.000.
Burt, Edward A.: *See—*
  Goins, Dixie E.; Holmes, Silas W.; and Burt, Edward A., 4,714,691, Cl. 502-152.000.
Burt, Gary W.: *See—*
  Grant, William F.; Burt, Gary W.; and Kumnick, Albert J., 4,697,324, Cl. 29-419.00R.
Burt, George A., Jr.: *See—*
  Abbe, David C.; and Burt, George A., Jr., 4,702,101, Cl. 73-1.00R.
Burt, Harry G. P.: *See—*
  Brearey, Nicholas J.; and Burt, Harry G. P., 4,645,271, Cl. 303-14.000.
Burt, James R.: *See—*
  Case, Wayne A.; and Burt, James R., 4,649,651, Cl. 33-178.00B.
Burt, Johanna. Educational game apparatus. 4,715,608, 12-29-87, Cl. 273-248.000.
Burt, John T., to Marcal Paper Mills, Inc. Embossments for minimizing nesting in roll material. 4,671,983, 6-9-87, Cl. 428-179.000.
Burt, Peter J.; and Adelson, Edward H., to RCA Corporation. Method for compensating for void-defects in images. 4,698,843, 10-6-87, Cl. 382-54.000.
Burt, Peter J.: *See—*
  Anderson, Charles H.; Carlson, Curtis R.; and Burt, Peter J., 4,692,806, Cl. 358-209.000.
  Fedele, Nicola J.; Acampora, Alfonse; Burt, Peter J.; and Hingorani, Rajesh, 4,663,660, Cl. 358-136.000.
Burt, Raymond J. Dual harmonica arrays and harmonica receptacles. 4,713,999, 12-22-87, Cl. 84-379.000.
Burt, Rodney T.; and Stitt, Robert M., to Burr-Brown Corporation. Apparatus for minimizing optically and thermally induced noise in precision electronic components. 4,636,916, 1-13-87, Cl. 361-386.000.
Burth, Willi. Apparatus for winding an endless strip in a storage means. 4,671,467, 6-9-87, Cl. 242-55.19R.
Burtin, Jean, to Agfa-Gevaert N.V. Method of assessing the activity of a photographic developer. 4,642,276, 2-10-87, Cl. 430-30.000.
Burtin, Jean-Pierre: *See—*
  Tholome, Roger; and Burtin, Jean-Pierre, 4,672,500, Cl. 361-93.000.
Burtner, Lee W.: *See—*
  Junker, Warren R.; and Burtner, Lee W., 4,704,577, Cl. 324-220.000.
Burton, Clement D.: *See—*
  Mensah, Thomas O.; Powers, Dale R.; and Burton, Clement D., 4,692,615, Cl. 250-231.00R.
Burton, Clifton A., to Eastman Whipstock, Inc. Mechanical well jar. 4,665,998, 5-19-87, Cl. 175-299.000.
Burton, Craig A.: *See—*
  Helland, Randall H.; and Burton, Craig A., 4,681,830, Cl. 430-110.000.
Burton, Donald J.; Wiemers, Denise M.; and Easdon, Jerome C., to University of Iowa Research Foundation. Method of preparation of compounds containing perfluoroalkyl groups. 4,650,887, 3-17-87, Cl. 556-112.000.
Burton, Eric J.: *See—*
  McKnight, James A.; Macleod, Iain D.; and Burton, Eric J., 4,655,992, Cl. 376-247.000.
Burton, George; and Best, Desmond J., to Beecham Group. Antibacterial penicillins and cephalosporins. 4,684,639, 8-4-87, Cl. 514-194.00
Burton, James A., to Hydril Company. Floating drilling rig apparatus and method. 4,668,126, 5-26-87, Cl. 405-169.000.
Burton, James A., to Hydril Company. Hawser chain seal assembly. 4,679,800, 7-14-87, Cl. 277-34.000.
Burton, James A.: *See—*
  Hynes, Joseph H.; and Burton, James A., 4,657,263, Cl. 277-31.00
Burton, James E., to Ledex, Inc. Rotary latching solenoid. 4,660,01 4-21-87, Cl. 335-228.000.
Burton, John H.; and Staehle, Brad G. Inflatable artificial sphincter. 4,682,583, 7-28-87, Cl. 128-1.00R.
Burton, John H.: *See—*
  Mikulich, Michael A.; Burton, John H.; and Porter, Christopher H. 4,651,721, Cl. 128-79.000.
Burton, Lester P. J., to Ethyl Corporation. Phenolic ester synthesis. 4,659,863, 4-21-87, Cl. 560-75.000.
Burton Mechanical Contractors, Inc.: *See—*
  Grooms, John M.; and Jones, Mark A., 4,691,731, Cl. 137-205.00
Burton, Michael B., to Sidewinder Joint Venture. Method and apparatus for lateral drilling in oil and gas wells. 4,699,224, 10-13-87, Cl. 175-61.000.
Burton, Parker & Schramm, P.C.: *See—*
  Clendinen, Charles D., 4,646,399, Cl. 24-624.000.
Burton, Randolph H.; Camlibel, Irfan; and Saul, Robert H., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Asymmetric chip design for LEDS. 4,700,210, 10-13-87, Cl. 357-17.000.
Burton, Richard J.: *See—*
  Allan, Jonathan M.; Burton, Richard J.; and Jurock, Volker 4,715,959, Cl. 210-637.000.
Burton, Robert J.: *See—*
  Bigham, C. Bruce; Burton, Robert J.; and McGregor, James E. A. 4,684,180, Cl. 439-29.000.
Burton, Rodney L.: *See—*
  Goldstein, Yeshayahu S. A.; Tidman, Derek A.; Burton, Rodney L.; Massey, Dennis W.; and Winsor, Niels K., 4,715,261, Cl. 89-8.000.
Burton, Stan, to Fisco Products Limited. Tape measure. 4,687,15 8-18-87, Cl. 242-107.300.
Burton, Thomas A., to Waters Instruments, Inc. Tubular medical prosthesis. 4,662,890, 5-5-87, Cl. 623-66.000.
Burton, Thomas A., to Waters Instruments, Inc. Skin marking device. 4,665,912, 5-19-87, Cl. 128-303.00R.
Burton, Willie C.: *See—*
  Britt, Thomas R.; and Burton, Willie C., 4,683,333, Cl. 564-414.00
Burtscher, Heinz: *See—*
  Siegmann, Hans-Christoph; Burtscher, Heinz; and Schmidt-Ott, Andreas, 4,652,866, Cl. 340-628.000.
Burtscher, Norbert: *See—*
  Deutschenbaur, Paul; Rupprecht, Hans; Burtscher, Norbert; and Nigg, Berno, 4,701,083, Cl. 408-240.000.
Burvee, Richard W., to Minnesota Mining and Manufacturing Company. Disposable, electrically conductive body grounding strap. 4,698,724, 10-6-87, Cl. 361-220.000.
Burwell, Gar W. N., to Rails Company. Railway fastening. 4,687,134, 8-18-87, Cl. 238-349.000.
Burwell, William H., to Union Carbide Corporation. Electrode joint thread form. 4,679,206, 7-7-87, Cl. 373-91.000.
Burwen, Eric D.: *See—*
  Wells, William D.; Robinson, David M.; DeLuca, Richard M.; and Burwen, Eric D., 4,698,509, Cl. 250-492.200.
Bury, Joseph R. Hollowshoe footwear. 4,686,781, 8-18-87, Cl. 36-132.000.
Burzin, Klaus: *See—*
  Bartmann, Martin; Bax, Hanns-Jorg; Burzin, Klaus; Ribbing, Wilfried; and Sridhar, Srinivasan, 4,659,803, Cl. 528-491.000.
Busa, Denis: *See—*
  Bianchi, Francois; Busa, Denis; and Fourrey, Francois, 4,666,210, Cl. 297-362.000.
  Bianchi, Francois; Busa, Denis, and Fourrey, Francois, 4,679,850, Cl. 297-410.000.
  Bianchi, Francois; Busa, Denis; and Fourrey, Francois, 4,700,587, Cl. 74-527.000.
Busack, Hans-Jurgen: *See—*
  Rogge, Bernd; Kaross, Klaus; Busack, Hans-Jurgen; and Lungu, Mihail, 4,663,959, Cl. 73-1.00G.
Busak & Luyken GmbH and Co.: *See—*
  Edlund, Roy; and Hom, Jorgen, 4,709,932, Cl. 277-165.000.
  Mack, Theo; and Edlund, Roy, 4,714,259, Cl. 277-165.000.
Busam, Vincent A.; Bell, James C.; and Holcombe, Wayne T., to Dynatech Computer Power, Inc. Telephone activated power controller. 4,647,721, 3-3-87, Cl. 379-102.000.

Busboom, Garry W.; and Breyer, Randall E., to Deutz-Allis Corporation. Bin unloader with oblique pivot axis. 4,662,812, 5-5-87, Cl. 414-523.000.

Busboom, Garry W., to Deutz-Allis Corporation. Dual rotating spreaders for harvester discharge. 4,684,068, 8-4-87, Cl. 239-665.000.

Busby, Bruce E., to Sony Corporation. Method and apparatus for updating optical memory disc. 4,682,318, 7-21-87, Cl. 369-59.000.

Busby, Peter W., to British Aerospace PLC. Surveillance systems. 4,707,735, 11-17-87, Cl. 358-108.000.

Busby, Robert B., to Pawling Corporation. Mesh-covered core strip for high frequency RFI/EMI radiation shielding. 4,652,695, 3-24-87, Cl. 174-35.0GC.

Busby, Robert B., to Pawling Rubber Corporation. Clip-on strip for RFT/EMI shielding. 4,659,869, 4-21-87, Cl. 174-35.0GC.

Busby, W. Ray, to Rockwell International Corporation. Multiple data path simulator. 4,654,851, 3-31-87, Cl. 371-27.000.

Buscaglia, Carl U.; and Knepper, Lawrence E., to International Business Machines Corporation. Three state select circuit for use in a data processing system or the like. 4,636,990, 1-13-87, Cl. 365-230.000.

Busch, Alfred; and St. Laurent, James C. T. B., to Procter & Gamble Company, The. Detergent compositions. 4,680,131, 7-14-87, Cl. 252-102.000.

Busch, Alfred: *See*—

Barrat, Christian R.; Busch, Alfred; and Sardelis, Kosmas. 4,639,321, Cl. 252-8.800.

Burckett St. Laurent, James C. T.; and Busch, Alfred. 4,698,167, Cl. 252-8.800.

Busch, Bernd, to AEG-Elotherm GmbH. Phase-adjusting device for parallel-resonant circuit frequency converters. 4,704,673, 11-3-87, Cl. 363-98.000.

Busch, Charles R., to Essex Group, Inc. Wire transport conduit. 4,655,379, 4-7-87, Cl. 226-110.000.

Busch, Daryle H.: *See*—

Ramprasad, Dorai; and Busch, Daryle H., 4,680,037, Cl. 55-16.000.

Busch, Dennis G.: *See*—

Baird, Suzanne K.; Benignus, Douglas M.; Busch, Dennis G.; Jeffries, Astrid P.; Parker, Thomas S.; and Vossman, Robert A., 4,672,574, Cl. 364-900.000.

Busch, Edgar; Schilling, Lothar; and Ziegler, Klaus, to Pfaff Industriemaschinen GmbH. Lubricating device for sewing and embroidering machines. 4,715,303, 12-29-87, Cl. 112-256.000.

Busch, Edgar: *See*—

Schmidt, Gottfried; Busch, Edgar; and Schilling, Lothar, 4,644,881, Cl. 112-103.000.

Busch, Eric: *See*—

Geiger, David J.; Lee, Sunny; and Busch, Eric, 4,702,592, Cl. 355-53.000.

Busch, Fred A., to Bonded Products, Inc. Hot melt gasketing compositions and processes for applying them. 4,650,387, 3-17-87, Cl. [illegible]3-19.000.

Busch, Hans-Jochen: *See*—

Schippers, Heinz; Schiminski, Herbert; Turk, Herbert; Mayer, Klaus; and Busch, Hans-Jochen, 4,646,983, Cl. 242-43.00A.

Busch, Paul F., to Metcal, Inc. Flexible autoregulating heater with a latching mechanism. 4,695,712, 9-22-87, Cl. 219-535.000.

Busch, Peter: *See*—

Ploog, Uwe; Busch, Peter; Hensen, Hermann; and Thiele, Klaus, 4,670,253, Cl. 424-70.000.

Busch, Randolph A., to Halliburton Company. Tensile ring cable head assembly. 4,648,444, 3-10-87, Cl. 166-65.100.

Busch, Roger A., to Fluor Corporation. Spar buoy fluid transfer system. [illegible]48,848, 3-10-87, Cl. 441-5.000.

Busch, Wolfgang: *See*—

Winkelmann, Hans-Joachim; and Busch, Wolfgang, 4,664,286, Cl. 220-85.00P.

[illegible], Thomas F. Tray assembly. 4,666,118, 5-19-87, Cl. 248-288.500.

Buschek, Herbert: *See*—

[illegible], Manfred; Machat, Rudolf; Weckerle, Wolfgang; Batz, Hans-Georg; Herrmann, Rupert; Kleemann, Wolfgang; and Buschek, Herbert, 4,668,622, Cl. 435-14.000.

[illegible], Manfred; and Temburg, Josef, to Trutzschler GmbH & Co. Fiber bale opener and method of operating the same. 4,698,878, [illegible]3-87, Cl. 19-80.00R.

Buschhaus, Hans-Ulrich: *See*—

Curtius, Christoph; Marx, Anna; Buschhaus, Hans-Ulrich; and Findeisen, Kurt, 4,659,753, Cl. 523-209.000.

Buschmann, Ernst; Schuster, Ludwig; Goetz, Norbert; Pommer, Ernst-Heinrich; and Ammermann, Eberhard, to BASF Aktiengesellschaft. Fungicidal piperidine derivatives. 4,673,683, 6-16-87, Cl. 514-317.000.

Buschmann, Ernst; Himmele, Walter; Eckhardt, Heinz; Ernst, Hans-[illegible] Rademacher, Wilhelm; and Jung, Johann, to BASF Aktiengesellschaft. Method of reducing plant growth height using phenylmorpholines. 4,705,553, 11-10-87, Cl. 71-76.000.

Buschmann, Ernst: *See*—

[illegible], Costin; Buschmann, Ernst; Himmele, Walter; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, 4,708,960, Cl. [illegible]4-383.000.

[illegible], Bernd; Ammermann, Eberhard; Buschmann, Ernst; and Pommer, Ernst-Heinrich, 4,659,705, Cl. 514-184.000.

Buschmann, Falk; Foerster, Karl-Heinz; Eichler, Volker; Heiber, Hartmut; and Dittrich, Volkmar, to VEB Kombinat Polygraph "Werner Lamberz" Leipzig. Timing device for neutralizing response delays of [illegible] devices in printing machines. 4,653,077, 3-24-87, Cl. [illegible]00.

Buschmann, Falk; Foerster, Karl-Heinz; Eichler, Volker; Heiber, Hartmut; and Dittrich, Volkmar, to Veb Kombinat Polygraph "Werner Lamberz" Leipzig. Timing device for printing machines. 4,661,918, 4-28-87, Cl. 364-569.000.

Buschmann, Falk; Foerster, Karl-Heinz; Eichler, Volker; Heiber, Hartmut; and Dittrich, Volker, to Veb Kombinat Polygraph "Werner Lamberz" Leipzig. Timing device for printing machines. 4,661,919, 4-28-87, Cl. 364-569.000.

Buschmann, Falk; Foerster, Karl-Heinz; Eichler, Volker; Heiber, Hartmut; and Dittrich, Volmar, to VEB Kombinat Polygraph "Werner Lamberz" Leipzig. Timing device for printing machines. 4,665,498, 5-12-87, Cl. 364-569.000.

Buschmann, Falk; Foerster, Karl-Heinz; Eichler, Volker; Heiber, Hartmut; and Dittrich, Volkmar, to VEB Kombinat Polygraph "Werner Lamberz" Leipzig. Time pulse generating control device for cyclically operating printing machines. 4,669,050, 5-26-87, Cl. 364-569.000.

Buschmann, Gerd: *See*—

Heinemann, Henning; Kehrbach, Wolfgang; Schoen, Uwe; Buschmann, Gerd; and Kuhl, Ulrich, 4,695,566, Cl. 514-234.000.

Thies, Peter W.; David, Samuel; Kuehl, Ulrich; Buschmann, Gerd; and Flecker, Peter, 4,714,709, Cl. 514-414.000.

Buschmann, Gerhard; and Muller, Georg, to Jagenberg AG. Device for measuring the winding hardness of a strip, especially a strip of paper, wound into a reel. 4,638,657, 1-27-87, Cl. 73-78.000.

Buschmann, Gerhard: *See*—

Hoffmann, Peter; Buschmann, Gerhard; Leichter, Hans; and Welp, Ewald, 4,676,094, Cl. 73-78.000.

Buschmann, Gunther: *See*—

Wupper, Hans; and Buschmann, Gunther, 4,693,522, Cl. 303-105.000.

Buschmann, Rudiger; Ganz, Rudolf; Willmann, Gerd; Wirth, Ludwig; Elstner, Ingo; and Jeschke, Peter, to Didier-Werke AG. Method of ceramic molding which produces a porosity gradient and the manufacture of compound moldings using this method. 4,710,480, 12-1-87, Cl. 501-95.000.

Buschmeier, Dieter, to Carl Hurth Maschinen- und Zahnradfabrik GmbH & Co. Gearlike, abrasive precision working tool, a method for dressing of such a tool and a dressing tool for dressing the tool. 4,693,231, 9-15-87, Cl. 125-116.00D.

Buschow, Kurt H. J.: *See*—

Van Engelen, Petrus P. J., and Buschow, Kurt H. J., 4,710,431, Cl. 428-457.000.

van Engen, Pieter G.; Buschow, Kurt H. J., and Jongebreur, Ronald, 4,650,290, Cl. 350-376.000.

Buschulte, Winfried: *See*—

Farago, Zoltan; and Buschulte, Winfried, 4,692,319, Cl. 423-242.000.

Buscom Systems, Inc.: *See*—

Bellenger, Donald M., 4,675,898, Cl. 379-97.000.

Busen, Dietmar; Schluter, Helmut; Weghmann, Arnold; Blumler, Norbert; and Tecl, Bohuslav, to Carl Freudenberg, Firma. Process of producing a pliable roller. 4,708,756, 11-24-87, Cl. 156-143.000.

Buseth, Richard A., to Snap-Tite, Inc. Sealing means with central elastomeric member. 4,699,387, 10-13-87, Cl. 277-167.500.

Busetto, Carlo: *See*—

Broussard, Fabio; and Busetto, Carlo, 4,668,725, Cl. 524-219.000.

Greco, Alberto; Busetto, Carlo; Cassar, Luigi; and Neri, Carlo, 4,684,726, Cl. 544-69.000.

Busgen, Herbert: *See*—

Boltze, Karl-Heinz; Etschenberg, Eugen; Traber, Jorg; and Busgen, Herbert, 4,647,560, Cl. 514-220.000.

Bush, Austin L.; Apperson, Kenneth P.; and Todd, Jerald C., to Square D Company. Hydraulic compression apparatus. 4,667,502, 5-26-87, Cl. 72-453.160.

Bush, Bill R.; Tripp, Andrew, Jr.; and Marchaj, Tadeusz J., to Preload Concrete Structures, Inc. Apparatus for prestressing concrete structures or the like. 4,659,033, 4-21-87, Cl. 242-7.210.

Bush Boake Allen Limited: *See*—

Grimshaw, Bryan; and Whiteley, Timothy S., 4,663,081, Cl. 252-522.00R.

Pietzsch, Gerko C., 4,657,701, Cl. 252-522.00A.

Bush, Duane B.: *See*—

Dodge, John L.; Bush, Duane B.; Pechuzal, Georges A.; and Ravindranath, Ambrish, 4,678,398, Cl. 415-181.000.

Howe, William J.; Bush, Duane B.; and Baskharone, Erian A., 4,674,955, Cl. 416-95.000.

Bush, Earl D., to Handy Button Machine Company. Tapered surface panel retainer. 4,680,915, 7-21-87, Cl. 52-766.000.

Bush, Earl D., to Handy Button Machine Company. Tack button. 4,700,435, 10-20-87, Cl. 24-94.000.

Bush, Eugenia; Wilson, Frank; and Woyak, Mark, to Champion International Corporation. Handle adapter. 4,699,020, 10-13-87, Cl. 74-544.000.

Bush, Harold G.; Mikulas, Martin M., Jr., Wallsom, Richard E.; and Jensen, J. Kermit, to United States of America, National Aeronautics and Space Administration. Mobile remote manipulator vehicle system. 4,685,535, 8-11-87, Cl. 182-63.000.

Bush Industries, Inc.: *See*—

Holler, James M., 4,677,707, Cl. 16-239.000.

Bush, J. Finley; and Mydock, Donald R., to Aluminum Company of America. Method for regenerating adsorbent mixture of alumina and zeolite for adsorption of ammonia. 4,686,198, 8-11-87, Cl. 502-25.000.

Bush, John R.: *See*—

Sandstrom, William A.; Patel, Jitendra G.; and Bush, John R., 4,636,168, Cl. 432-58.000.

Bush, John W., to Budd Company, The. Bead lock device. 4,674,549, 6-23-87, Cl. 152-158.000.

Bush, Lee W.: *See—*
    Acklin, John R.; Bush, Lee W.; Danna, Joseph J.; Devitt, John L.; and Rauh, George A., 4,645,094, Cl. 222-52.000.
Bush, Michael F.: *See—*
    Morris, Kim E.; and Bush, Michael F., 4,662,481, Cl. 187-77.000.
Bush, Randall G., to Sunbeam Plastics Corporation. Two piece dispensing closure. 4,666,068, 5-19-87, Cl. 222-546.000.
Bush, Rodney D.; and Heinzman, Stephen W., to Procter & Gamble Company, The. Ether hydroxypolycarboxylate detergency builders. 4,654,159, 3-31-87, Cl. 252-95.000.
Bush, Rodney D.; Connor, Daniel S.; Heinzman, Stephen W.; and Mackey, Larry N., to Procter & Gamble Company, The. Ether carboxylate detergent builders and process for their preparation. 4,663,071, 5-5-87, Cl. 252-174.190.
Bush, Vincent N., to Playtronics Corporation. Toy bank with novel coin discriminating mechanism. 4,673,368, 6-16-87, Cl. 446-8.000.
Bush, Vincent N.: *See—*
    Hiniker, Thomas K.; and Bush, Vincent N., 4,637,547, Cl. 239-1.000.
Bush, Warren V., to Shell Oil Company. Selective process for the upgrading of distillate transportation fuel. 4,676,885, 6-30-87, Cl. 208-49.000.
Bush, William H.: *See—*
    Eusek, John F.; and Bush, William H., 4,665,543, Cl. 378-181.000.
Bushaw, Kenneth A.; Bustamante, Louis A.; and McCurry, James J., to International Business Machines Corporation. Method for producing duplex copy sets from a duplex original set. 4,639,126, 1-27-87, Cl. 355-3.0SH.
Bushaw, Kenneth A., to International Business Machines Corporation. Method and apparatus for producing transparent foil copies. 4,648,709, 3-10-87, Cl. 355-77.000.
Bushell, Michael J.; and Worthington, Paul A., to Imperial Chemical Industries PLC. Insecticidal use of azolyl propanols. 4,689,337, 8-25-87, Cl. 514-383.000.
Bushell, Michael J., to Imperial Chemical Industries PLC. Fluoro alcohols and insecticidal esters thereof. 4,714,790, 12-22-87, Cl. 568-807.000.
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Bushman, Ronald C.: *See—*
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Bussan, Marc R.; and Winternheimer, Sylvester A., to Whirlpool Corporation. Lighting system for appliance dials. 4,706,169, 11-10-87, Cl. 362-26.000.
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    Carter, William, 4,664,146, Cl. 137-599.000.
Busselmann, Manfred H.; and Gaffal, Hans R., to Ultrafin AG. Motor vehicle window curtain opening and closing mechanism. 4,662,424, 5-5-87, Cl. 160-331.000.
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Bussiere, Ronald L.; and Smith, Robert J., to Surgicorp. Apparatus for curing dental restorative composites. 4,716,296, 12-29-87, Cl. 25 504.00H.
Bussing, Wilfred C., Jr. Wearable alarm. 4,692,749, 9-8-87, C 340-574.000.
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    van der Wouden, Adriaan, 4,671,530, Cl. 280-656.000.
Bussink, Jan; and van der Meer, Roelof, to General Electric Company. Polyphenylene ether compositions containing polyfunctional compounds. 4,668,723, 5-26-87, Cl. 524-105.000.
Bussjager, Rudy C., to Carrier Corporation. Flue gas heat pump. 4,660,761, 4-28-87, Cl. 237-2.00B.
Busso, Mario; and Pierini, Marco, to Varian S.p.A. Electronic device for feeding ion pump. 4,713,619, 12-15-87, Cl. 324-460.000.
Busson, Christian: *See—*
    Galtier, Pierre; and Busson, Christian, 4,695,370, Cl. 208-113.000.
Busta, Heinz H.; and Cuellar, Raul D. Method of making micromachined refractory metal field emitters. 4,685,996, 8-11-87, C 156-628.000.
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    Bushaw, Kenneth A.; Bustamante, Louis A.; and McCurry, James J., 4,639,126, Cl. 355-3.0SH.
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Butcher, David H., to World Patent Improvements S.A. Thermal insulating material. 4,704,312, 11-3-87, Cl. 428-12.000.
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Butcher, Robert M., to Mold-Masters Limited. Mechanism for valve gated injection molding with resilient retaining ring. 4,698,01 10-6-87, Cl. 425-549.000.
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er, Barry L., to United States of America, Energy. Liquid cooled er thermal radiation receiver. 4,643,168, 2-17-87, Cl. 126-449.000.

er, Christopher C.: *See*—

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David. Automobile body and frame straightening tool 49,730, 3-17-87, Cl. 72-308.000.

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r, David O. Aerial communication cable closure. 4,647,715, 3-3-87, 174-41.000.

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r, David V.: *See*—

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George. Artificial aquarium. 4,691,459, 9-8-87, Cl. 40-406.000.

Gregg A., to Analog Devices, Inc. Method and apparatus for g operational amplifier leakage current. 4,697,151, 9-29-87, Cl. 000.

James E., to TIE/Communications, Inc. Three-way power e circuit. 4,667,142, 5-19-87, Cl. 320-6.000.

James L.: *See*—

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Butler, Major G., to Butler Taper Joint. Mechanical pipe joint and method of forming the same. 4,696,499, 9-29-87, Cl. 285-234.400.

Butler Manufacturing Company: *See*—

Benscoter, Richard D., 4,638,115, Cl. 174-48.000.

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Biebuyck, Lawrence F., 4,644,717, Cl. 52-209.000.

Bowman, Timothy S., 4,637,185, Cl. 52-221.000.

Brueske, Ralph H., 4,644,329, Cl. 340-556.000.

Churchman, James E., 4,683,698, Cl. 52-655.000.

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Shackleton, Raymond T., 4,693,147, Cl. 82-40.00A.

Butler, Robert. Greenhouse construction. 4,671,025, 6-9-87, Cl. 52-18.000.

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Butler, Scott J.; and Regan, Robert J., to GTE Laboratories Incorporated. High-frequency, high-gain, push-pull amplifier circuit. 4,647,867, 3-3-87, Cl. 330-269.000.

Butler, Scott J.; Smith, Robert K.; and Abdollahian, Mehdy, to GTE Laboratories Incorporated. Quadrature-coupled microwave electrodeless lamp. 4,712,046, 12-8-87, Cl. 315-248.000.

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Butler, Stuart D., to Gulf Canada Corporation. Stabilizer for drillstems. 4,664,206, 5-12-87, Cl. 175-325.000.

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Moore, William H.; Gutowski, Charles M.; Trosky, William J.; and Butler, Thomas A., 4,697,243, Cl. 364-513.000.

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- Buttazzoni, Bernard: *See—*
  - Vives, Michel; and Buttazzoni, Bernard. 4,711,234, Cl. 128-92.0YF.
- Buttemer, David A., to Electromatic (Proprietary) Limited. Loop detector. 4,661,799, 4-28-87, Cl. 340-941.000.
- Butterfield, Colin E.: *See—*
  - Jolly, Robert; and Butterfield, Colin E., 4,663,117, Cl. 376-442.000.
- Butterfield, Eric J.: *See—*
  - Bower, Allen M.; Butterfield, Eric J.; and Roberts, Robert D., 4,697,624, Cl. 141-208.000.
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  - Butterfield, Ida M., 4,713,056, Cl. 604-110.000.
- Butterfield, Howard B.: *See—*
  - Meek, Thomas R.; and Butterfield, Howard B., 4,672,640, Cl. 375-120.000.
- Butterfield, Ida M., to Butterfield Group. Non-reusable hypodermic syringe. 4,713,056, 12-15-87, Cl. 604-110.000.
- Butterfield, Robert D., to Ivac Corporation. Detection of fluid flow faults in the parenteral administration of fluids. 4,710,163, 12-1-87, Cl. 604-65.000.
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- Butterick Company, Inc.: *See—*
  - Perry, Patricia, 4,651,427, Cl. 33-2.00R.
- Butterly, Edward R., Jr.; and Stoppel, Doyle E., to Doren Brothers Inc. Conveyor line loader for multi-tiered rolling carts. 4,634,333, 1-6-87, Cl. 414-331.000.
- Buttermann, Gunter, to Hacoba Textilmaschinen GmbH & Co KG. Apparatus for accurately positioning and fixing a loom beam. 4,676,449, 6-30-87, Cl. 242-68.400.
- Butters, Alan; Barker, Roger N.; and Rennison, Stuart C., to Imperial Chemical Industries PLC. Laser-imageable assembly and process for production thereof. 4,711,834, 12-8-87, Cl. 430-201.000.
- Butters, Brian C. F.; and Pollicott, Ian D., to Chemring PLC. Slip coating chaff. 4,649,076, 3-10-87, Cl. 428-361.000.
- Butterweck, Helgard: *See—*
  - Hoke, Engelbert; and Butterweck, Helgard, 4,714,548, Cl. 210-221.200.
- Butterwick, Gilbert N., to RCA Corporation. Intensified charge-coupled image sensor having a charge-coupled device with contact pads on an annular rim thereof. 4,639,590, 1-27-87, Cl. 250-213.0VT.
- Butterworth, Arthur L., to American Standard Inc. Lubricant distribution system for scroll machine. 4,666,381, 5-19-87, Cl. 418-55.000.
- Butterworth, Donald J.: *See—*
  - Davis, Thomas A.; Bozenmayer, Kurt; and Butterworth, Donald J., 4,707,257, Cl. 210-274.000.
- Butterworth Jetting Systems, Inc.: *See—*
  - Pacht, Amos, 4,690,325, Cl. 239-124.000.
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  - Furness, John A.; and Haggerty, John, 4,685,974, Cl. 134-22.180.
- Buttiker, Rudolf: *See—*
  - Punzar, Marianne; Marti, Franz; Mercier, Robert; Tobler, Paul; and Buttiker, Rudolf, 4,678,852, Cl. 544-194.000.
- Buttinoni, Ada: *See—*
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- Buttles, Robert F.: *See—*
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- Buttner, Gerhard, to Siemens Aktiengesellschaft. Miniature hearing aid having a bindable multi-layered amplifier arrangement. 4,710,961, 12-1-87, Cl. 381-68.700.
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  - Lenthe, Manfred; Allenbach, Udo; Buttner, Gerhard; and Christmann, Karl-Friedrich, 4,647,676, Cl. 549-462.000.
- Buttner, Horace J. Carburetor components and carburetor. 4,65[illegible],976, 4-7-87, Cl. 261-44.200.
- Buttner, Peter: *See—*
  - Kreth, Norbert; Buttner, Peter; and Mucheyer, Norbert, 4,665,939, Cl. 137-101.000.
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- Buttner, Werner: *See—*
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- Butts, Gary; Sydo, Lukas; and Rossi, Victor L., to Ling Electronics, Inc. Recirculating bearing. 4,678,347, 7-7-87, Cl. 384-43.000.
- Butts, Gary, to Ling Electronics, Inc. Apparatus for vibration testing. 4,715,229, 12-29-87, Cl. 73-663.000.
- Butts, Gene A.; Garsee, Henry A.; Kelley, Charles D.; Petty, Bruce R.; and Pauley, James L., to Helena Laboratories Corporation. Method of scanning optical density patterns. 4,684,244, 8-4-87, Cl. 356-39.000.
- Butts, Gene A.; Kelley, Charles D.; Garsee, Henry A.; Petty, Bruce R.; and Pauley, James L., to Helena Laboratories Corporation. Densitometer with automatic gain and reference value adjustment of analog waveform. 4,697,236, 9-29-87, Cl. 364-416.000.
- Butts, J. James, Jr.; and Howard, Don R., to bd Systems, Inc. Retroflective attitude determining system. 4,709,580, 12-1-87, Cl. 73-178.00R.
- Butts, Nicholas E., to Total Containment International, Inc. Subterranean tank leak containment and detection system. 4,672,366, 6-9-87, Cl. 340-605.000.
- Butts, Robert R.: *See—*
  - Fender, Janet S.; Cusumano, Salvatore J.; Butts, Robert R.; and DeHainaut, Christopher R., 4,639,586, Cl. 250-201.000.
- Butwell, Kenneth F.: *See—*
  - Capobianco, Paul J.; Butwell, Kenneth F.; and Kossakowski, Edward J., 4,705,673, Cl. 423-229.000.
- Butz, Otto: *See—*
  - Wauer, Dieter; Plaschke, Herbert; Butz, Otto; and Ganser, Josef, 4,652,742, Cl. 250-223.00R.
- Butzen, William J. Interlocking roof edge fascia system. 4,648,21 3-10-87, Cl. 52-96.000.
- Butzen, William J. Roof edge fascia system. 4,707,954, 11-24-87, Cl. 52-96.000.
- Butzow, Neil W.; Lambert, Gerald G.; and Tumidajewicz, Donald, to Rexnord Inc. End stress relief configuration for flexible element of elastomeric coupling. 4,634,400, 1-6-87, Cl. 464-88.000.
- Buxbaum, Gunter: *See—*
  - Kiemle, Peter; Wiese, Jurgen; and Buxbaum, Gunter, 4,686,142, Cl. 428-403.000.
  - Naumann, Rolf; Rademachers, Jakob; Buxbaum, Gunter; Rod Fritz; and Waid, Karl, 4,689,086, Cl. 106-290.000.
- Buxe, Paul M., to United Technologies Corporation. Augmentor liner support band having finger positioners. 4,696,431, 9-29-87, Cl. 239-265.150.
- Buxton, Clifford A.; Higgins, David C.; and Volesky, Gary A., to Square D. Company. Drive mechanism for drawout high amperage multi-pole circuit breaker. 4,693,132, 9-15-87, Cl. 74-425.000.
- Buxton, Frank A.; and Barraclough, David J., to Rolls-Royce plc. Moulding of composite materials. 4,683,099, 7-28-87, Cl. 264-511.00
- Buxton, Gerald W., to Paper Converting Machine Company. Apparatus for folding spaced segments of web material. 4,682,977, 7-28-87, Cl. 493-358.000.
- Buxton, James L.; Phillips, Alan C.; and Honey, Stanley K., to Etak Inc. Method and apparatus for generating a stroke on a display. 4,686,642, 8-11-87, Cl. 364-607.000.
- Buxton, James L.: *See—*
  - Pierce, Gerald A.; and Buxton, James L., 4,634,850, Cl. 235-487.000.
- Buyan, Frank M.; and Ross, Mark S., to Mobil Oil Corporation. FCC reactor multi-feed nozzle system. 4,650,566, 3-17-87, Cl. 208-153.00
- Buyan, Frank M.; and Ross, Mark S., to Mobil Oil Corporation. Method and apparatus for improving cyclone efficiency. 4,714,541, 12-22-87, Cl. 208-161.000.
- Buyofsky, Conrad C.; and Kennette, John W., to Chicopee. Light weight entangled non-woven fabric having excellent machine direction and cross direction strength and process for making the same. 4,693,922, 9-15-87, Cl. 428-134.000.
- Buysch, Hans-Josef; Szentivanyi, Zsolt; and Witte, Josef, to Bayer Aktiengesellschaft. Antiagers and polymers containing them. 4,654,387, 3-31-87, Cl. 524-217.000.
- Buysch, Hans-Josef: *See—*
  - Mues, Peter; Buysch, Hans-Josef; Brassat, Bert; and Heine, Heinrich, 4,694,065, Cl. 528-371.000.
  - Mues, Peter; Kerimis, Dimitrios; Muller, Hanns P.; and Buysch, Hans-Josef, 4,707,539, Cl. 528-371.000.
  - Richter, Wolfgang; Buysch, Hans-Josef; Brassat, Bert; Merten, Josef; and Haupt, Heinrich, 4,656,228, Cl. 525-433.000.
  - Weber, Karl-Arnold; Buysch, Hans-Josef; Noble, Karl-Ludwig; and Traubel, Harro, 4,687,830, Cl. 528-64.000.
- Buzak, Thomas S., to Tektronix, Inc. Light reflecting three-dimensional display system. 4,670,744, 6-2-87, Cl. 340-716.000.
- Buzak, Thomas S., to Tektronix, Inc. Color filter switchable among three state via a variable retarder. 4,674,841, 6-23-87, Cl. 350-337.000.
- Buzas, Attila: *See—*
  - Kasza, Tibor; Kakonyi, Gyula; Kocso, Illes; Buzas, Attila; and Radvanyi, Laszlo , 4,682,137, Cl. 335-284.000.
- Buzby, George C., Jr.; Winkley, Michael W.; and McCaully, Ronald J., to American Home Products Corporation. Process for the asymmetric synthesis of chiral indoline-2-carboxylic acids. 4,644,081, 2-17-87, Cl. 562-456.000.
- Buzby, George C., Jr.; and Colatsky, Thomas J., to American Hom Products Corporation. 4-amino benzenesulfonamides. 4,698,44 10-6-87, Cl. 564-86.000.
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  - Colatsky, Thomas J.; and Buzby, George C., Jr., 4,665,227, C 564-87.000.
- Buzdov, Ruslan D.: *See—*
  - Aubakirov, Marat T.; Limanov, Esengali L.; Syzdykov, Askar Abdrazakov, Ravil S.; Tleuov, Murat G.; Khazhuer, Vladimir Buzdov, Ruslan D.; and Khashirov, Vladislav K., 4,681,174, 175-330.000.
- Buzzi, Carlo A.: *See—*
  - Mader, Karl; Schonenberger, Guido; and Buzzi, Carlo 4,711,375, Cl. 222-135.000.
- Buzzi, Guenter, to Hans Grohe GmbH & Co. KG. Apparatus throttling flow limitation in water fittings. 4,667,700, 5-26-87, 138-45.000.
- Buzzi, Riccardo, to Matalplast S.r.l. Mechanism for actuating the h and claw and for stitch setting in portable sewing machine. 4,693, 9-15-87, Cl. 112-199.000.
- B.V. Koninklijke Maatschappij "De Schelde": *See—*
  - Van Den Berg, Frans J.; and Viergever, Robert A., 4,708,563, 414-22.000.

B.V. Machinefabriek P.M. Duyvis: *See—*
Kruiver, Gerardus, 4,633,775, Cl. 100-297.000.
B.V. Machinefabriek v/h Pannevis & Zn.: *See—*
Schipper, Hendricus H., 4,671,876, Cl. 210-400.000.
B.V. Optische Industrie "De Oude Delft": *See—*
Beckman, Leo H. J. F.; and Oomea, Gysbert L., 4,701,049, Cl. 356-1.000.
de la Fonteijne, Marcel R., 4,702,249, Cl. 128-328.000.
van der Linden, Bernardus G., 4,687,920, Cl. 250-205.000.
Vlasbloem, Hugo; and Duinker, Simon, 4,715,056, Cl. 378-152.000.
BVT Limited: *See—*
Beardow, Terence, 4,701,251, Cl. 204-298.000.
Byal, Mark; Leo, Francis G.; and Schwenke, Marvin J., to Lamb Technicon Corp. System and method for automatic diagnostic program modification based on control program modification. 4,670,834, 6-2-87, Cl. 364-186.000.
Byar, Peter D.: *See—*
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Byars, Leland S.: *See—*
Reece, Ricky L.; Byars, Leland S.; and Shannon, Larry S., Sr., 4,674,781, Cl. 292-336.300.
Bychkov, Sergei V.: *See—*
Gendelman, Mikhail A.; Borodulin, Anatoly F.; Golubeva, Diana F.; and Bychkov, Sergei V., 4,694,867, Cl. 139-192.000.
Byczek, Roger W.: *See—*
Romine, Edward L.; and Byczek, Roger W., 4,678,250, Cl. 439-83.000.
Bye, Richard L., Jr.: *See—*
Das, Santosh K.; Raybould, Derek; Bye, Richard L., Jr.; and Chang, Chin-Fong, 4,675,157, Cl. 420-405.000.
Skinner, David J.; Bye, Richard L., Jr.; Okazaki, Kenji; and Adam, Colin M., 4,715,893, Cl. 75-249.000.
Byer, Joseph I. Light weight internal combustion engine with stationary pistons and rotary valves. 4,699,093, 10-13-87, Cl. 123-50.00R.
Byer, Robert L.: *See—*
Fan, Tso Y.; and Byer, Robert L., 4,701,928, Cl. 372-68.000.
Fejer, Martin M.; Magel, Gregory A.; and Byer, Robert L., 4,650,322, Cl. 356-73.100.
Byerley, Mark S.: *See—*
Owen, Michael E.; and Byerley, Mark S., 4,636,277, Cl. 156-417.000.
Byerley, Thomas J.: *See—*
Engel, James F.; Byerley, Thomas J.; and Christie, Howard W., 4,704,466, Cl. 558-411.000.
Byerly, Dale L.; Black, Richard L.; and Podiak, Richard S., to Champion Spark Plug Company. Method for assembling a spark plug. 4,643,688, 2-17-87, Cl. 445-3.000.
Byerly, Kent A.; Feldhacker, Marvin E.; and Grant, Duane E., to International Business Machines Corporation. Digital timing control system with memory look ahead. 4,692,877, 9-8-87, Cl. 364-514.000.
Byers, Charles L., to University of California, The Regents of the. Implantable infection barrier seal and method. 4,645,504, 2-24-87, Cl. 623-10.000.
Byers, Charles L.; Loeb, Gerald E.; Merzenich, Michael M.; and Rebscher, Stephen J., to University of California, Regents of the. Method for making an intracochlear electrode array. 4,686,765, 8-18-87, Cl. 29-858.000.
Byers, Edward R. Drive assembly for astronomical telescope. 4,671,130, 6-9-87, Cl. 74-425.000.
Byers, Gary W., to Eastman Kodak Company. Process for reheating dye-receiving element containing stabilizer. 4,705,521, 11-10-87, Cl. 8-471.000.
Byers, Gary W., to Eastman Kodak Company. Alkolxy derivative stabilizers for dye-receiving element used in thermal dye transfer. 4,705,522, 11-10-87, Cl. 8-471.000.
Byers, Gary W.: *See—*
Vanier, Noel R.; Byers, Gary W.; and Weber, Helmut, 4,716,145, Cl. 503-227.000.
Byers, Jim D.: *See—*
Banasiak, Dennis S.; Mozdzen, Edward C.; and Byers, Jim D., 4,687,867, Cl. 556-52.000.
Byers, Lance R.: *See—*
Taylor, Edward C.; Katz, Alan H.; Bull, Randy A.; Byers, Lance R.; and Brown, Richard A., 4,695,658, Cl. 568-763.000.
Byers, Robert G., to General Motors Corporation. Method of assembling electric storage batteries. 4,675,991, 6-30-87, Cl. 29-623.100.
Byers, Thomas L. Photographic image precision reproportioning system. 4,716,443, 12-29-87, Cl. 355-84.000.
Byers, Timothy W.: *See—*
Ohs, Gary L.; and Byers, Timothy W., 4,711,538, Cl. 350-604.000.
Byers, William A.: *See—*
Carlson, Gerald L.; Pensenstadler, David F.; Snider, Warren E.; and Byers, William A., 4,713,618, Cl. 324-438.000.
Byers, William L. Apparatus for cleaning containers. 4,635,312, 1-13-87, Cl. 15-71.000.
Byfield, Dwight, Jr. Side mount universal battery terminal. 4,673,240, 6-16-87, Cl. 439-755.000.
Byford, Trevor K., to General Motors Corporation. Seat belt retractor. 4,673,144, 6-16-87, Cl. 242-107.40C.
Byington, Roy E.; and Pease, William M., to Raytheon Company. Digital memory system. 4,713,794, 12-15-87, Cl. 365-45.000.
BYK-Chemie GmbH: *See—*
Haubennestel, Karlheinz; and Kramp, Peter, 4,647,647, Cl. 528-83.000.
Haubennestel, Karlheinz; Breil, Daniela; Bubat, Alfred; and Spratte, Werner, 4,696,761, Cl. 252-358.000.
Byk Gulden Lomberg Chemische Fabrik GmbH: *See—*
Amschler, Hermann, 4,665,074, Cl. 514-247.000.
Amschler, Hermann; and Ulrich, Wolf-Rudiger, 4,707,481, Cl. 514-247.000.
Flockerzi, Dieter; Klemm, Kurt; and Ulrich, Wolf-Rudiger, 4,707,486, Cl. 514-318.000.
Rainer, Georg; Figala, Volker; and Kohl, Bernhard, 4,686,230, Cl. 514-338.000.
Byker, Harlan J., to PCB Sandpiper, Inc. Halogenated aromatic compound removal and destruction process. 4,659,443, 4-21-87, Cl. 204-131.000.
Bylehn, Bo V. S.; and Granqvist, Iage H., to Sunds Defibrator Aktiebolag. Apparatus for the removal of impurities from fiber suspensions. 4,708,829, 11-24-87, Cl. 261-62.000.
Bynum, Byron G.; and Cave, David L., to Motorola, Inc. Method and circuit for dissipating stored inductive energy. 4,665,459, 5-12-87, Cl. 361-91.000.
Bynum, Byron G., to Motorola, Inc. Precision thermal current source. 4,677,368, 6-30-87, Cl. 323-311.000.
Bynum, Byron G., to Motorola, Inc. Voltage regulator. 4,683,416, 7-28-87, Cl. 323-314.000.
Bynum, Byron G., to Motorola, Inc. Bipolar programmable memory and method. 4,703,455, 10-27-87, Cl. 365-174.000.
Bynum, Byron G.: *See—*
Brown, Leland T.; and Bynum, Byron G., 4,661,878, Cl. 361-56.000.
Byram, Alfred A.; and Wystemp, Willie, to Corken International Corporation. Pump with vane actuating system. 4,659,298, 4-21-87, Cl. 418-253.000.
Byram, George W., to United States of America, Navy. Intercept resistant data transmission system. 4,661,980, 4-28-87, Cl. 380-46.000.
Byram, Robert J., to General Motors Corporation. Electric motor servo for cruise control. 4,643,038, 2-17-87, Cl. 74-397.000.
Byrd, Audis C.; Morris, Robert J.; Black, Robert H.; and Weaver, Jimmie D., Jr., to Halliburton Company. Continuous reactor design. 4,661,321, 4-28-87, Cl. 422-111.000.
Byrd, James D.; and Davis, Robert T., to Morton Thiokol, Inc. Delayed quick cure rocket motor liner. 4,663,196, 5-5-87, Cl. 427-230.000.
Byrd, Lucid L., to Allied Tube & Conduit Corporation. Process of forming welded tubing. 4,660,754, 4-28-87, Cl. 228-151.000.
Byrd, William A., to Sundstrand Corporation. Compliant gear. 4,674,351, 6-23-87, Cl. 74-443.000.
Byrd, William A.; and Smith, Anthony R., to Sundstrand Corporation. Self-scavenging gear box lubrication system. 4,715,244, 12-29-87, Cl. 74-467.000.
Byrd, William A.: *See—*
Ruschkofski, Gerald J.; and Byrd, William A., 4,665,279, Cl. 174-40.00R.
Byrge, Jerome J. Manual propulsion apparatus for wheelchairs. 4,652,026, 3-24-87, Cl. 280-242.0WC.
Byrne, Barbara J.: *See—*
Byrne, Larry D.; and Byrne, Barbara J., 4,681,597, Cl. 44-15.00R.
Byrne, Barry F., to Wormald International Ltd. Sprinkler head housing. 4,646,846, 3-3-87, Cl. 169-42.000.
Byrne, Bernie. Food storage container. 4,676,371, 6-30-87, Cl. 206-44.120.
Byrne, Brian, to Hercules Incorporated. Carboxylate salt compound and method for flavoring foodstuffs and tobacco. 4,697,025, 9-29-87, Cl. 556-183.000.
Byrne & Davidson Industries Limited: *See—*
Eigner, Otto; and Jones, Richard E., 4,675,586, Cl. 318-458.000.
Whitehouse, Martin H.; and Jones, Richard E., 4,644,813, Cl. 74-431.000.
Byrne, John V.; McMullin, Francis; Devitt, Francis; and O'Dwyer, Jeremiah, to Kollmorgen Technologies Corporation. Variable speed variable reluctance electrical machines. 4,670,696, 6-2-87, Cl. 318-701.000.
Byrne, John V.; and O'Dwyer, Jeremiah B., to Kollmorgen Technologies Corporation. Electrical drive systems incorporating variable reluctance motors. 4,698,537, 10-6-87, Cl. 310-168.000.
Byrne, John V.: *See—*
Murphy, John; McMullin, Francis; Egan, Michael; Byrne, John V.; and Kenneally, Patrick, 4,682,093, Cl. 318-701.000.
Byrne, Joseph B., to Dow Chemical Company, The. Blends of a polycarbonate with a polyester-polycarbonate copolymer. 4,710,548, 12-1-87, Cl. 525-439.000.
Byrne, Larry D.; and Byrne, Barbara J. Method for agglomerating powdered coal by compaction. 4,681,597, 7-21-87, Cl. 44-15.00R.
Byrne, Peter C.; and McCann, Gerard, to PCB Controls Public Limited Company. Electronic control unit for an anti-skid braking system. 4,700,304, 10-13-87, Cl. 364-426.000.
Byrne, Shelley R. Beer keg ice sleeve and method of making same. 4,653,290, 3-31-87, Cl. 62-372.000.
Byrnes, Donn A. Apparatus for simplifying the launching and retrieval of a boat from its trailer. 4,679,812, 7-14-87, Cl. 280-406.00A.
Byrnes, Francis E.; Ferris, Donald L.; and Olsen, Eric G., to United Technologies Corporation. Tailoring tilt in an elastomeric high torque, constant velocity joint. 4,676,669, 6-30-87, Cl. 384-221.000.
Byrnes, Francis E.; Ferris, Donald L.; Hibyan, Edward S.; Noehren, William L.; and Ogle, Peter C., to United Technologies Corporation. Elastomeric high torque, constant velocity joint. 4,714,450, 12-22-87, Cl. 464-90.000.

Byrnes, Larry E.; and Gabrielsen, Jon T., to Federal-Mogul Corporation. Method for making powder metal forging preforms of high-strength ferrous-base alloys. 4,655,853, 4-7-87, Cl. 148-16.500.
Byrns, James E. Insulated can holder. 4,671,424, 6-9-87, Cl. 220-408.000.
Byrns, James E. Blow-molded three section storage case. 4,703,853, 11-3-87, Cl. 206-387.000.
Byrns, James E. Insulated bottle holder. 4,708,254, 11-24-87, Cl. 215-13.100.
Byron Agricultural Company, Pty, Limited: *See—*
  Lewis, Victor M.; and Lewis, David A., 4,683,141, Cl. 426-639.000.
Byron, David E., to Red Eye Arms, Inc. Polymer gun. 4,703,826, 11-3-87, Cl. 89-188.000.
Byron, LeRoy F.: *See—*
  Bankuty, Geza E.; and Byron LeRoy F., 4,696,144, Cl. 53-331.500.
Byron, Stanley R.; Burkes, Thomas; Petr, Rodney A.; and Smilanski, Israel, to United States of America, Air Force. Linear geometry thyratron. 4,668,896, 5-26-87, Cl. 315-330.000.
Byrum, Barney L. Collapsible self-recovering cylinder discrete impulse motor. 4,700,540, 10-20-87, Cl. 60-325.000.
Byrum, James E. IC carrier system. 4,681,656, 7-21-87, Cl. 156-645.000.
Bystedt, Christer: *See—*
  Gustavsson, Hans; and Bystedt, Christer, 4,645,226, Cl. 280-423.00A.
Bystroff, Roman I.: *See—*
  Pearson, Richard K.; Bystroff, Roman I.; and Miller, Dale E., 4,701,379, Cl. 428-427.000.
Bystrom, Karl; Karlsson, Erik; Kihlberg, Gunnar; and Reit, Henry, to Jungner Marine AB. Fluidically mounted apparatus for measuring the torque in a shaft. 4,646,010, 2-24-87, Cl. 324-208.000.
Byszewski, Wojciech W.; Fallier, Charles N., Jr.; and Lester, James N., to GTE Laboratories Incorporated; and GTE Products Corporation. Multipulse starting aid for high-intensity discharge lamps. 4,713,587, 12-15-87, Cl. 315-289.000.
Bytheway, Mervin H., Jr. V closure system for blinds. 4,651,794, 3-24-87, Cl. 160-168.00R.
Bytheway, Mervin H., Jr. Cable ladder system and improved V-closure blinds. 4,708,188, 11-24-87, Cl. 160-174.000.
Bytzek, Klaus K., to Litens Automotive Inc. Belt tensioning device with constant or variably proportional damping. 4,689,037, 8-25-87, Cl. 474-135.000.
Bytzek, Klaus K.; and Antchak, John R., to Litens Automotive Inc. Belt tensioner with frustoconical pivot bearing. 4,698,049, 10-6-87, Cl. 474-135.000.
Bywater, Robert J., to Beecham Group p.l.c. Veterinary composition of cloxacillin for eye treatment. 4,707,474, 11-17-87, Cl. 514-196.000.
Byzio, Edward R.; and Stewart-Hay, Peter, to Canada Wire and Cable Limited. Method and apparatus for forming a smooth tube from a flat tape. 4,675,992, 6-30-87, Cl. 29-728.000.
Bzowycky, Peter: *See—*
  Scalisi, Joseph M.; and Bzowycky, Peter, 4,633,729, Cl. 74-477.000.
  Scalisi, Joseph M.; and Bzowycky, Peter, 4,633,730, Cl. 74-477.000.
C. A. Greiner & Sohne Gesellschaft m.b.H.: *See—*
  Konrad, Franz, 4,652,429, Cl. 422-102.000.
  Konrad, Franz, 4,664,274, Cl. 215-232.000.
C. A. Pemberton & Co. Limited: *See—*
  Vogt, Norman H., 4,667,371, Cl. 17-52.000.
C. A. Weidmuller GmbH & Co.: *See—*
  Conrad, Horst; Tobergte, Konrad; and Schulze, Rainer, 4,707,563, Cl. 174-50.000.
  Hanning, Walter, 4,685,887, Cl. 439-188.000.
  Undin, Hans; and Wiener, Hans, 4,637,242, Cl. 72-410.000.
  Wilmes, Manfred, 4,641,443, Cl. 40-316.000.
C. B. & W. Tools, Inc.: *See—*
  Willis, Gregory H., 4,662,618, Cl. 269-43.000.
C.Behrens AG: *See—*
  Flick, Willi; and Bredow, Walter, 4,646,600, Cl. 83-136.000.
C & C Concepts, Inc.: *See—*
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C.C. Developments, Limited: *See—*
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C.C.L. South Africa (Proprietary) Limited: *See—*
  Lamont, Patrick A., 4,683,784, Cl. 81-22.000.
C. Conradty Nurnberg GmbH & Co. KG: *See—*
  Schieber, Franz, 4,704,327, Cl. 428-338.000.
  Wilhelmi, Herbert; Kegel, Kurt; Conradty, Claudio; Zollner, Dieter; Lauterbach-Dammler, Inge; and Rittmann, Friedrich, 4,675,878, Cl. 373-90.000.
  Wilhelmi, Herbert; Kegel, Kurt; Zollner, Dieter; Lauterbach-Dammler, Inge; Taube, Thomas; and Rittman, Friedrich, 4,710,607, Cl. 219-121.00P.
C-Cor Electronics, Inc.: *See—*
  Minar, Frank M.; and Wisnieski, Robert L., Jr., 4,698,906, Cl. 29-842.000.
C-Cor Labs, Inc.: *See—*
  Schrock, Clifford B., 4,648,123, Cl. 455-67.000.
C. D. Briddell Inc.: *See—*
  Roberts, Russell S.; and Briddell, Charles D., 4,646,385, Cl. 17-45.000.
C-D Marketing, Ltd.: *See—*
  Jacob, Keith D., 4,641,922, Cl. 350-331.00R.
  Jacob, Keith D., 4,688,895, Cl. 350-332.000.
  Jacob, Keith D., 4,690,508, Cl. 350-331.00R.
  Jacob, Keith D., 4,701,022, Cl. 350-278.000.
C & D Power Systems, Inc.: *See—*
  Brecht, William B.; and Misra, Sudhan S., 4,683,647, Cl. 29-623.200.
C. Delachaux: *See—*
  Bommart, Patrick T., 4,641,818, Cl. 269-43.000.
  Pelletier, Yves, 4,704,502, Cl. 191-23.00A.
C. & E. Fein GmbH & Co.: *See—*
  Fink, Manfred; and Junginger, Klaus M., 4,671,364, Cl. 173-12.000
  Mezger, Dieter; Harsch, Georg; and Flachenecker, Gert, 4,700,478, Cl. 30-294.000.
  Schreiber, Wolfgang; Ludwig, Manfred; and Hald, Ewald, 4,655,103, Cl. 81-474.000.
C-E Industrial Lasers, Incorporated: *See—*
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C.E.M.A.N. Special-Container GmbH: *See—*
  Hey, Heinz-Herbert, 4,633,799, Cl. 114-72.000.
C.E.M. S.p.A.: *See—*
  Montini, Renato, 4,633,820, Cl. 122-37.000.
C.E.T. Construction Eng'g. & Technology Ltd.: *See—*
  Kuoni, Xaver, 4,708,447, Cl. 352-128.000.
C-E Vetco U.K. Limited: *See—*
  Brand, Douglas, 4,667,599, Cl. 102-275.400.
C. F. Braun & Co.: *See—*
  Lam, Wilfred K., 4,684,759, Cl. 585-652.000.
C.F. Spiess & Sohn Kunststoffwerk GmbH & Co.: *See—*
  Rydmann, Theo, 4,657,502, Cl. 425-526.000.
C & F Stamping Co., Inc.: *See—*
  Arend, Donald P., 4,708,625, Cl. 425-589.000.
C.G.R. MeV: *See—*
  Meyrand, Gabriel, 4,639,634, Cl. 313-62.000.
  Perraudin, Claude, 4,656,394, Cl. 315-5.410.
  Tronc, Dominique, 4,639,641, Cl. 315-5.410.
C. H. Perrott, Inc.: *See—*
  Perrott, Charles H., 4,712,574, Cl. 137-217.000.
C. I. Kasei Co., Ltd.: *See—*
  Sano, Shigeo; and Komatsuzaki, Masato, 4,663,874, Cl. 40-621.000
C-I-L, Inc.: *See—*
  Barnes, John G.; and Murray, Charles R., 4,672,684, Cl. 383-45.000
  Borkowicz, Jerzy, 4,636,715, Cl. 324-62.000.
  Burkell, John E.; and Warren, Ian H., 4,702,805, Cl. 204-95.000
  Cameron, Gordon M., 4,654,205, Cl. 423-522.000.
  Cameron, Gordon M.; and Whitters, Robert F., 4,663,142, C 423-532.000.
  Chin, Chang-Hwa; Edmonds, Anthony C. F.; and Evans, Colin M. 4,713,232, Cl. 423-390.000.
  Masse, Gary M. J., 4,671,951, Cl. 423-531.000
  Masse, Gary M. J., 4,671,952, Cl. 423-539.000.
  Masse, Gary M. J.; and Edmonds, Anthony C. F., 4,673,560, C 423-532.000.
  Mohanty, Bibhuti B., 4,690,058, Cl. 102-312.000.
  Murray, Charles R., 4,677,007, Cl. 428-35.000.
  Murray, Charles R., 4,680,207, Cl. 428-35.000.
  Murray, Charles R.; and Harrison, Ray E., 4,681,781, C 428-35.000.
  Villamagna, Fortunato; and Bampfield, Howard A., 4,689,096, C 149-2.000.
C. Itoh & Co., Ltd.: *See—*
  Higuchi, Susumu, 4,648,136, Cl. 2-2.500.
C. & J. Clark Limited: *See—*
  Ralphs, George T., 4,698,006, Cl. 425-185.000
C&K Components, Inc.: *See—*
  Fredrickson, Eric, 4,639,562, Cl. 200-43.080.
C.K.D. Controls Co., Ltd.: *See—*
  Shimura, Katsumasa; and Nakamura, Tetsuro, 4,643,394, Cl 251-129.080.
C & K Systems, Inc.: *See—*
  Johnson, Richard A., 4,710,750, Cl. 340-522.000.
C&K Venture Income I-Coast: *See—*
  Hamilton, James M.; and Burness, Bruce, 4,677,263, Cl. 200-61.440
  Woods, Lonnie K.; and Hamilton, James M., 4,634,142, Cl 280-707.000.
C.L.F. Cooperative Lavori Ferroviari Soc. Coop. A.R.L.: *See—*
  Casarini, Erio; and Montermini, Uber, 4,669,387, Cl. 104-17.200
C.L.M., Inc.: *See—*
  Francisco, Roland L., 4,666,626, Cl. 252-153.000.
C-Lock Retention Systems, Inc.: *See—*
  Berger, Lawrence E., 4,690,588, Cl. 405-262.000.
C. M. Ambrose Company: *See—*
  Ambrose, Clarence M., 4,653,549, Cl. 141-5.000.
C&M Custom and Portable Kennels, Inc.: *See—*
  Fewox, Cary M., 4,696,259, Cl. 119-19.000.
C. M. Offray & Son, Inc.: *See—*
  Sands, Timothy A., 4,664,158, Cl. 139-422.000.
C. M. Smillie & Company: *See—*
  Kazmierski, Ronald J., 4,681,992, Cl. 200-82.00E.
C. Muller & Associates, Inc.: *See—*
  Muller, Charles B., 4,641,362, Cl. 383-115.000.
C O D Inter Techniques SA: *See—*
  Horvah, Laszlo S., 4,696,351, Cl. 173-32.000.
  Horvath, Laszlo S., 4,648,167, Cl. 29-428.000.
C.O.M. Cooperativa Operai Metallurgici S.C.R.L.: *See—*
  Frascaroli, Francesco; and Biondi, Carlo, 4,639,049, 312-195.000.
C.O.M. Cooperativa Operai Mobilieri S.C.R.L.: *See—*
  Gamberini, Gino, 4,707,028, Cl. 297-300.000.
C. Olivetti & C., S.p.A.: *See—*
  Boella, Marcello; and Rivera, Paolo, 4,650,993, Cl. 250-231.0SE

- C Otto & Comp. G.m.b.H.: *See—*
  - Kwasuik, Hans-Jurgen; and Piduch, Hans-Gunter, 4,673,463, Cl. 201-41.000.
- C.R.B. Virbac S.A.: *See—*
  - Ascher, Frederic M.; and Cuvelier, Jacques A., 4,643,893, Cl. 424-16.000.
- C. R. Bard, Inc.: *See—*
  - Allen, Douglas, Jr.; and Flam, Eric, 4,650,817, Cl. 523-105.000.
  - Blankenship, Larry K.; and Denny, Bradley J., 4,658,834, Cl. 128-771.000.
  - Bowden, Russell W., 4,699,611, Cl. 604-51.000.
  - Crittenden, James F.; and Weitzner, Barry D., 4,654,024, Cl. 604-49.000.
  - DeMarzo, Arthur P., 4,643,193, Cl. 128-639.000.
  - Elliott, Donald P.; and Halseth, William L., 4,715,856, Cl. 604-321.000.
  - Franko, Zenon Z., 4,693,719, Cl. 623-11.000.
  - Goff, Kathy O.; and Johnsen, Kenneth, 4,665,902, Cl. 128-79.000.
  - Krug, John A., 4,671,786, Cl. 604-4.000.
  - McGreevy, Francis T.; and Hahn, Karl W., 4,690,684, Cl. 623-12.000.
  - Nehring, John R., 4,662,829, Cl. 417-395.000.
  - Nehring, John R., 4,681,571, Cl. 604-320.000.
- C. Reichert Optische Werke AG: *See—*
  - Nyman, Georg N.; Pauliny, Ferdinand; and Schindl, Klaus P., 4,678,291, Cl. 350-510.000.
  - Schindl, Klaus P., 4,712,889, Cl. 350-511.000.
  - Sitte, Hellmuth, 4,637,226, Cl. 62-514.00R.
- C.S. Kaseihin Company Inc.: *See—*
  - Kurashima, Akira; Machiya, Akira; and Yamaguchi, Goichi, 4,654,428, Cl. 556-414.000.
- CTF Research Company: *See—*
  - Cygielski, Bozena, 4,687,467, Cl. 604-110.000.
- CTS Consulting Personnel Svcs., Inc.: *See—*
  - Egger, Eugene R.; and Sherman, Harold, 4,675,728, Cl. 358-100.000.
- CTS Power Services, Inc.: *See—*
  - Egger, Eugene R., 4,668,981, Cl. 358-100.000.
- C-Tec, Inc.: *See—*
  - Munsey, R. Jack; DeJong, Leroy D.; and Keip, Charles P., 4,639,204, Cl. 425-3.000.
- C-Tek Limited Partnership: *See—*
  - Micek, A. John, 4,666,353, Cl. 409-234.000.
- C. Uyemura & Co., Ltd.: *See—*
  - Kinoshita, Akemi; Araki, Ken; Nawafune, Hidemi; and Mizumoto, Shozo, 4,650,691, Cl. 427-8.000.
- C. van der Lely N.V.: *See—*
  - van der Lely, Ary; and Bom, Cornelis J. G., 4,643,360, Cl. 239-682.000.
  - van der Lely, Ary; and Bom, Cornelis J. G., 4,679,384, Cl. 56-13.600.
  - van der Lely, Edwin; and Bom, Cornelis J. G., 4,641,491, Cl. 56-228.000.
  - van der Lely, Ir E.; and Bom, Cornelis J. G., 4,693,062, Cl. 56-13.600.
- CR Industries: *See—*
  - Worth, Sidney V., 4,664,458, Cl. 339-17.00M.
- Cabado, Ramon B., to Henkel Kommanditgesellschaft auf Aktien. Process for phosphating metal surfaces and especially iron surfaces. 4,708,744, 11-24-87, Cl. 106-14.120.
- Cabaniss, Frank W.; and Lockwood, James M., to NCR Corporation. Varying frequency oscillator for the reduction of radiated emissions of electronic equipment. 4,695,808, 9-22-87, Cl. 331-57.000.
- Cabaniss, Frank W.: *See—*
  - Speraw, Floyd G.; and Cabaniss, Frank W., 4,665,467, Cl. 361-388.000.
- Cabannes, Claude, to OMYA S.A. Device for withdrawing and conditioning samples of materials in solid, liquid or gaseous form, for the purpose of analysis thereof. 4,702,114, 10-27-87, Cl. 73-863.850.
- Cabato, Nellie L.: *See—*
  - Kumar, Shailendra; Lorenz, Gerald; and Cabato, Nellie L., 4,651,126, Cl. 338-309.000.
- Cabe, Alex W., Jr.: *See—*
  - Mattingly, William B., III; Cabe, Alex W., Jr.; Chapas, Richard B.; and Sampson, Arthur J., Jr., 4,690,679, Cl. 604-383.000.
- Cabela's Inc.: *See—*
  - Highby, Dennis N., 4,703,578, Cl. 43-18.100.
- Caber Italia S.p.A.: *See—*
  - Olivieri, Icaro, 4,670,999, Cl. 36-119.000.
  - Olivieri, Icaro; and Sartor, Leo, 4,685,226, Cl. 36-120.000.
  - Sartor, Leo, 4,697,360, Cl. 36-2.600.
- Cabernoch, James L., to Baxter Travenol Laboratories, Inc. One-piece nursing container with means for storing nipple. 4,640,425, 2-3-87, Cl. 215-11.00E.
- Cabernoch, James L., to Baxter Travenol Laboratories, Inc. Container such as a nursing container, with flexible liner. 4,657,151, 4-14-87, Cl. 215-11.00E.
- Cabernoch, James L.; and White, Leonard A., to Baxter Travenol Laboratories, Inc. Container such as a nursing container, and packaging arrangement therefor. 4,706,827, 11-17-87, Cl. 215-11.300.
- Cabinet Michel Rataboul: *See—*
  - Jaumeille, Pierre H., 4,649,846, Cl. 114-39.000.
- Cable Electric Products, Inc.: *See—*
  - Schwartz, Frederic W., 4,685,634, Cl. 242-96.000.
  - Schwartz, Frederic W., 4,705,342, Cl. 439-650.000.
  - Schwartz, Frederic W., 4,713,874, Cl. 29-566.400.
  - Schwartz, Frederick W., 4,667,188, Cl. 340-689.000.
- Cable/Home Communication Corp.: *See—*
  - Gilhousen, Klein S.; Heller, Jerrold A.; Van Harding, Michael; and Blakeney, Robert D., II, 4,712,238, Cl. 380-20.000.
- Cable, Jane; and Higgins, George, to Pyrene Chemical Services Limited. Chromate coatings for metals. 4,644,029, 2-17-87, Cl. 524-407.000.
- Cable, Neil, to Agence Spatiale Europeenne. Releasable connector apparatus. 4,684,285, 8-4-87, Cl. 403-331.000.
- Cable Technology Laboratories, Inc.: *See—*
  - Katz, Carlos; Dima, Attila F.; and Eager, George S., Jr., 4,681,985, Cl. 174-73.00R.
- Cable, Vaughn P.; Nason, Clyde K.; and Culp, Gordon W., to Pacesetter Infusion, Ltd. External infusion pump apparatus. 4,685,903, 8-11-87, Cl. 604-154.000.
- Cablecraft, Inc.: *See—*
  - Hurlow, Robert H., 4,671,131, Cl. 74-471.0XY.
- Cabletest International Inc.: *See—*
  - Magi, Hugo; Boas, Arthur J.; and Waese, Jerry R., 4,636,847, Cl. 358-101.000.
- Cabletime (Installations) Limited: *See—*
  - Gale, John C., 4,647,251, Cl. 405-154.000.
- Cablovision Alma Inc.: *See—*
  - Comeau, Rene, 4,635,109, Cl. 358-84.000.
- Cabot Corporation: *See—*
  - Bergman, Roger M.; Bielecki, Edwin J.; Higgins, Brian J.; and Romberger, Karl A., 4,663,130, Cl. 423-68.000.
  - Bergman, Roger M.; and Mosheim, Charles E., 4,684,399, Cl. 75-0.5BB.
  - Browning, James A., 4,634,611, Cl. 427-423.000.
  - Crook, Paul; and Zordan, Richard D., 4,643,767, Cl. 420-12.000.
  - Lai, George Y., 4,711,763, Cl. 420-585.000.
  - Lee, Kam B.; and Simpkin, Alan A., 4,645,657, Cl. 423-457.000.
  - Sridhar, Narasi; and Crook, Paul, 4,678,523, Cl. 148-325.000.
- Cabot, Louis: *See—*
  - LeBlond, Henri; and Cabot, Louis, 4,672,846, Cl. 73-180.000.
- Cabourne, Michael K.: *See—*
  - Anhalt, John W.; and Cabourne, Michael K., 4,641,903, Cl. 339-99.00R.
- Cabre-Castellvi, Juan: *See—*
  - Palomo-Coll, Alberto; Cabre-Castellvi, Juan; and Palomo-Coll, Antonio L., 4,659,814, Cl. 540-355.000.
- Cabrera, Alejandro L.; Kirner, John F.; Miller, Robert A.; and Pierantozzi, Ronald, to Air Products and Chemicals, Inc. Method of producing silicon diffusion coatings on metal articles. 4,714,632, 12-22-87, Cl. 427-255.100.
- Cabrera, Pedro P.; and Talbot, Glenn D., to Coulter Electronics, Inc. Fluid conduit and pinch valve for use therewith. 4,653,719, 3-31-87, Cl. 251-7.000.
- Cabrera, Pedro P.; Berra, Humberto A.; and Doty, Edward N., to Coulter Electronics Inc. Liquid sampling valve. 4,702,889, 10-27-87, Cl. 422-103.000.
- Cabrera, Rene J.; and Eager, Thomas W., to Codman & Shurtleff, Inc. Laser instrument. 4,646,734, 3-3-87, Cl. 128-303.100.
- Cabrol, Christian: *See—*
  - Bacou, Claude; Baptiste, Rene; Feissel, Henri; Takats, Gilbert; and Cabrol, Christian, 4,714,828, Cl. 250-214.00C.
- Caburet, Pierre: *See—*
  - Fourrey, Francois; and Caburet, Pierre, 4,637,655, Cl. 297-410.000.
- Cacaofabriek de Zaan B.V.: *See—*
  - Kattenberg, Hans R., 4,704,292, Cl. 426-565.000.
  - Terpstra, Paulus N., 4,684,466, Cl. 210-227.000.
- Caccamo, Anthony F.: *See—*
  - Noonan, John M.; and Caccamo, Anthony F., 4,696,990, Cl. 526-304.000.
- Cacciatore, Paul J.: *See—*
  - Kelly, David J.; and Cacciatore, Paul J., 4,656,196, Cl. 521-52.000.
  - Kelly, David J.; and Cacciatore, Paul J., 4,670,477, Cl. 521-52.000.
- Caccioppo, Sebastian. Combination brush/roller hair-grooming tool. 4,712,570, 12-15-87, Cl. 132-40.000.
- Caccivio, Giuseppe: *See—*
  - Beconcini, Paolo; Caccivio, Giuseppe; and Nannini, Dante, 4,665,720, Cl. 66-149.00S.
- CACI, Inc. - Federal: *See—*
  - Rice, Mark S.; and Hunt, Paul D., 4,681,054, Cl. 114-124.000.
- Cacicedo, Paulino A. Automatic gate closure apparatus. 4,649,597, 3-17-87, Cl. 16-76.000.
- Cacicedo, Paulino A. One-way gate latch. 4,655,490, 4-7-87, Cl. 292-238.000.
- Cacioppo, Joseph C.; Wuerzer, Donald R.; and Piglia, Peter J., to National Machine Company, Inc. Slip ring assembly and method of manufacture. 4,705,976, 11-10-87, Cl. 310-232.000.
- Cactus Wellhead Equipment Co., Inc.: *See—*
  - Boeker, Roy A., 4,646,845, Cl. 166-387.000.
  - Nichols, Randy P., 4,652,022, Cl. 285-92.000.
- Cadars, Patrick, to Societe Anonyme Francaise du Ferodo. Swirl-generating, helical agitator for heat exchanger tubes. 4,700,749, 10-20-87, Cl. 138-38.000.
- Cadaureille, Gerard: *See—*
  - Frizot, Alain; Cadaureille, Gerard; Lalere, Jean-Christophe; and Machuron, Jean-Yves, 4,694,585, Cl. 33-502.000.
  - Frizot, Alain; Cadaureille, Gerard; Lalere, Jean-Christophe; and Machuron, Jean-Yves, 4,696,786, Cl. 376-245.000.
  - Frizot, Alain; Cadaureille, Gerard; Lalere, Jean-Christophe; and Machuron, Jean-Yves, 4,704,801, Cl. 33-502.000.

- Cadbury Limited: *See—*
  - Richards, Brian T., 4,637,788, Cl. 425-4.00R.
- Cadbury Schweppes, PLC: *See—*
  - Jeans, Edward L., 4,637,439, Cl. 141-18.000.
  - Jeans, Edward L., 4,664,292, Cl. 222-1.000.
  - Karlis, Robert G.; Dole, Charles M.; Webster, Gary L.; and Andersen, George J., 4,712,713, Cl. 222-3.000.
- Caddick, Mary J. Water craft and method for removing weeds and pollutants from navigable waters. 4,674,984, 6-23-87, Cl. 440-88.000.
- Caddock, Richard E. Method of making a compact, high-voltage, noninductive, film-type resistor. 4,670,734, 6-2-87, Cl. 338-61.000.
- Cadee, Theodorus P. M.; Van der Veen, Siebren C.; and Fluks, Marten, to Octrooibureau Zuid. Transmission and steering system for cross-country vehicle. 4,685,353, 8-11-87, Cl. 74-689.000.
- Cadel, Jeffrey S.; and Larson, Eric H., to Allied Corporation. Preparation of water soluble cationic acrylamide polymer and product using weak acid to adjust pH. 4,668,747, 5-26-87, Cl. 526-216.000.
- Cadema Medical Products, Inc.: *See—*
  - Bordoni, Maurice E.; and Lieberman, Ephraim, 4,703,753, Cl. 128-200.140.
- Cadet Manufacturing Company: *See—*
  - Eckman, Harold J., 4,714,194, Cl. 237-70.000.
- Cadieux, Serge M.; and Lemay, Martin, to Johnson & Johnson. Air laid peat moss board. 4,676,871, 6-30-87, Cl. 162-13.000.
- Cadin Electronics Pty. Ltd.: *See—*
  - Clift, Bruce G., 4,654,638, Cl. 340-531.000.
- Cadona, Luciano: *See—*
  - Li Bassi, Giuseppe; Cadona, Luciano; Nicora, Carlo; and Carlini, Carlo, 4,672,079, Cl. 522-35.000.
- Cadorin, Gino. Motorized scroll saw. 4,674,381, 6-23-87, Cl. 83-752.000.
- Cadossi, Ruggero; and Marazzi, Donata. Method and device for treating living tissues and/or cells by means of pulsating electromagnetic fields. 4,683,873, 8-4-87, Cl. 128-1.500.
- Cadware Group, Ltd., The: *See—*
  - Dunn, Robert M., 4,656,603, Cl. 364-900.000.
- Cadwell, Calvin L. Energy machine generating hydraulic energy. 4,667,115, 5-19-87, Cl. 290-54.000.
- Cadwell, Donald E., and Brey, Larry A., to Minnesota Mining and Manufacturing Company. Lithographic plate. 4,687,729, 8-18-87, Cl. 430-271.000.
- Cadwell, George H., Jr.; and Pittman, Clarence B., to Flanders Filters, Inc. Laminar flow clean room. 4,671,811, 6-9-87, Cl. 55-355.000.
- Cadwell, George H., Jr.; Pittman, Clarence B.; and Bowers, Cecil W., to Flanders Filters, Inc. Laminar flow clean room having improved filter bank. 4,678,487, 7-7-87, Cl. 55-385.00A.
- Cadwell, George H., Jr.: *See—*
  - Pittman, Clarence B.; and Cadwell, George H., Jr., 4,639,261, Cl. 55-502.000.
- CAE Electronics, Ltd.: *See—*
  - Krouglicof, Nicholas; McKinnon, Gordon M.; and Svoboda, Jaroslav, 4,649,504, Cl. 364-559.000.
  - McKinnon, Gordon M., 4,634,083, Cl. 244-122.00R.
- CAE Machinery Ltd.: *See—*
  - Mierau, Cameron D.; Cramond, Patrick J.; and Beer, Douglas C., 4,685,497, Cl. 144-176.000.
- Cael, John J., to Polaroid Corporation. Photopolymerizable composition. 4,696,876, 9-29-87, Cl. 430-1.000.
- Caesar, Philip D., to Mobil Oil Corporation. Method for preparing structured catalytic solids. 4,692,423, 9-8-87, Cl. 502-62.000.
- Cafferty, Terrance. Method of stenciling using removable protective coat before applying stencil. 4,637,309, 1-20-87, Cl. 101-129.000.
- Caflisch, Jerry A.; and Ockuly, John D., to Pako Corporation. Photosensitive sheet dryer. 4,693,014, 9-15-87, Cl. 34-23.000.
- Cagan, Vladimir; and Guyot, Marcel, to Centre National de la Recherche Scientifique. Process and device for measuring the initial permeability of ferrimagnetic materials over a wide frequency band. 4,649,495, 3-10-87, Cl. 364-481.000.
- Cage, Jerry L.; and Kulp, Jonathan B., to TRW Inc. Control apparatus for a power assist steering system. 4,702,335, 10-27-87, Cl. 180-142.000.
- Cage, Jerry L., to Allied Corporation. Fail safe circuit for an anti-lock braking system modulator drive. 4,712,841, 12-15-87, Cl. 303-92.000.
- Cagey, Lee B., to LogEtronics, Inc. Storage cassette for film processing system. 4,709,913, 12-1-87, Cl. 271-207.000.
- Caggiano, Michael A.: *See—*
  - Sung, Rodney L.; Caggiano, Michael A.; and Behrens, Milton D., 4,659,336, Cl. 44-62.000.
- Cagle, George C.; and Clendening, Steven J., to Rockwell International Corporation. Distributed control time division multiplex ring communication apparatus. 4,648,088, 3-3-87, Cl. 370-16.000.
- Cagle, J. Douglas; Olson, Harold D.; and Addison, Charles. Method for chilling poultry. 4,634,594, 1-6-87, Cl. 426-393.000.
- Cagle, Larry L.; Andersen, Keith D.; and Lurvey, Victor E., to Fibercast Company. Molding of integral socket connection in centrifugally cast fiberglass reinforced pipe. 4,714,578, 12-22-87, Cl. 264-255.000.
- Cagle, Philip V., to General Motors Corporation. Torque applier. 4,711,124, 12-8-87, Cl. 73-162.000.
- Cagle's Inc.: *See—*
  - Olson, Harold D., 4,639,974, Cl. 17 46.000.
- Cahalan, Patrick T.: *See—*
  - Jevne, Allan H.; Cahalan, Patrick T.; and Coury, Arthur J., 4,650,614, Cl. 260-513.00N.
- Cahill, James W.; and Walker, Budd H. Game piece of foldable sheet material. 4,703,933, 11-3-87, Cl. 273-139.000.
- Cahill, Jerry E.: *See—*
  - Nelson, Michael R.; and Cahill, Jerry E., 4,669,880, Cl. 356-326.000.
  - Nelson, Michael R.; Boostrom, Roy E.; Cahill, Jerry E.; and Hwang, Tzong, 4,692,883, Cl. 364-571.000.
- Cahill, Joseph, Jr.; and Rodenberg, Herbert G., to National Distillers and Chemical Corporation. Process for the production of macrocyclic esters by the depolymerization of polyesters. 4,709,058, 11-24-87, Cl. 549-267.000.
- Cahill, Paul J.; and Satek, Larry C., to Standard Oil Company (Indiana). Gasoline compositions containing hexavalent molybdenum. 4,647,293, 3-3-87, Cl. 44-68.000.
- Cahill, Richard F., to McDonnell Douglas Corporation. Optical grating demodulator and sensor system. 4,668,093, 5-26-87, Cl. 356-345.000.
- Cahill, Richard F.; Eck, Jeffrey A.; Schwantz, Gerald L.; Theriault, John P.; Turek, Philip A.; Udd, Eric; Wagoner, Raymond E.; and Wanser, Keith H., to McDonnell Douglas Corporation. Fiber optic earth rotation gyro compass. 4,712,306, 12-15-87, Cl. 33-304.000.
- Cahill, Sally E., and Smith, Melvin D., to Miles Laboratories, Inc. Stable chloride test device. 4,650,768, 3-17-87, Cl. 436-125.000.
- Cahn, Arno: *See—*
  - Kickle, Hunter L.; Urfer, Allen D.; Cahn, Arno; Borys, Nelson F.; and Verboom, Gilles M. L., 4,675,127, Cl. 252-174.170.
- Cahn, Robert P.; and Li, Norman N. Individual comfort control device. 4,662,433, 5-5-87, Cl. 165-46.000.
- Cahuzac, Georges J. J.; and Monget, Francois J. R., to Aerospatiale Societe Nationale Industrielle. Method for producing complex objects by multidirectional deposition of thread. 4,644,619, 2-24-87, Cl. 28-100.000.
- Cahuzac, Georges J. J.; and Monget, Francois J. R., to Societe Nationale Industrielle et Aerospatiale. Machine for producing complex objects by multidirectional deposition of thread. 4,656,703, 4-14-87, Cl. 28-100.000.
- Cai, Jun-Chao; and Takase, Muneaki, to Zenyaku Kogyo Kabushiki Kaisha. Bis-dioxopiperazine derivatives, process for their preparation, antitumor agents comprising them and compositions containing them. 4,650,799, 3-17-87, Cl. 514-255.000.
- Cai, Ren Z.: *See—*
  - Schally, Andrew V., and Cai, Ren Z., 4,650,787, Cl. 514-11.000.
- Caillat, Jean-Luc, to Copeland Corporation. Scroll-type machine with variable wrap thickness. 4,639,201, 1-27-87, Cl. 418-55.000.
- Caillerie, Jean-Louis; Decaens, Remy; and Limare, Armand, to Societe Anonyme Dite Societe Miniere et Metallurgique de Penarroya. Process and alloy of galvanization of tempered steel containing silicon, and galvanized object. 4,636,354, 1-13-87, Cl. 420-514.000.
- Caillerie, Jean-Louis; Decaens, Remy; and Limare, Armand, to Societe Anonyme Dite Societe Miniere et Metallurgique de Penarroya. Process of galvanization of tempered steel containing silicon. 4,699,815, 10-13-87, Cl. 427-433.000.
- Caillet, Rene, to Kone Oy. Device for automatically locking a hatchway panel in the open or closed position. 4,655,004, 4-7-87, Cl. 49-280.000.
- Caillier, George A., Sr., to Singer Company, The. Method of applying electric motor armature insulation. 4,663,835, 5-12-87, Cl. 29-598.000.
- Caillouet, Stanford J., Jr. Quick connect coupling safety clamp system. 4,650,221, 3-17-87, Cl. 285-87.000.
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- Cain, David A.: *See—*
  - Harvey, Kaye F.; Johns, Reginald B.; Buchanan, Alan S.; and Cain, David A., 4,701,184, Cl. 44-10.00D.
- Cain Encoder Co.: *See—*
  - Wason, Thomas D., 4,704,690, Cl. 364-484.000.
  - Wason, Thomas D., 4,710,889, Cl. 364-571.000.
- Cain, Gary L.; and Goren, Sidney B., to Spectra-Physics, Inc. Laser alignment system with modulated field. 4,674,870, 6-23-87, Cl. 356-4.000.
- Cain, Gary L.; Meyers, Lawrence J.; Teach, Ted L.; Rando, Joseph F.; and Markley, Theodore J., to Spectra-Physics, Inc. Self leveling transmitter for laser alignment systems. 4,679,937, 7-14-87, Cl. 356-138.000.
- Cain, Gary L.: *See—*
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- Cain, Joseph B.: *See—*
  - Glenn, Raymond R.; Powshok, Andrew T.; Padgett, Robert S.; Uriarte, Pedro; Cain, Joseph B.; and Thaker, Gautam H., 4,707,832, Cl. 370-124.000.
- Cain, Joseph B., III: *See—*
  - McRae, Daniel D.; and Cain, Joseph B., III, 4,639,937, Cl. 375-40.000.
- Cain, Michael: *See—*
  - Collins, Ronald J.; and Cain, Michael, 4,643,547, Cl. 351-245.000.
- Cain, Michael E.: *See—*
  - Ambos, Hans D.; Cain, Michael E.; and Sobel, Burton E., 4,680,708, Cl. 364-417.000.
- Cain, Michael P.: *See—*
  - McKee, Bobby D.; Cain, Michael P.; Delvecchio, Robert M.; and Aivaliotis, Emmanuel, 4,710,660, Cl. 310-178.000.

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Rigati, Victor H., 4,695,942, Cl. 364-188.000.

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cavecchio, Peter, 4,683,953, Cl. 166-294.000.

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Calder, Iain D.: *See—*

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Baumgartner, Hans-Ulrich; Calderara, Reto; and Sonderegger, Hans-Conrad, 4,701,660, Cl. 310-338.000.

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Calderon-Quintero, Miguel H.: *See—*

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Calderon, Reynaldo. Methods and systems for retrograde perfusion in the body for curing it of the disease or immame deficiency. 4,714,460, 12-22-87, Cl. 604-28.000.

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McCallum, Robert; and Mitchell, David, 4,662,300, Cl. 114-259.000.

- Calflex Corporation: *See—*
  - Smith, Robert T., 4,650,160, Cl. 251-335.300.
- Calgene, Inc.: *See—*
  - Hiatt, William R.; and Owades, Joseph L., 4,652,452, Cl. 426-16.000.
  - Thompson, Gregory A.; and Davies, Huw M., 4,716,101, Cl. 435-4.000.
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  - Matviya, Thomas M.; Gebhard, Robert S.; and Greenbank, Michael, 4,708,853, Cl. 423-210.000.
  - Vo, Toan P., 4,715,867, Cl. 55-26.000.
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  - Acklin, John R.; Bush, Lee W.; Danna, Joseph J.; Devitt, John L.; and Rauh, George A., 4,645,094, Cl. 222-52.000.
  - Arots, Joseph B., 4,686,047, Cl. 210-712.000.
  - Boffardi, Bennett P., 4,693,829, Cl. 210-697.000.
  - Boothe, Jerry E.; and Schaper, Raymond J., 4,650,591, Cl. 210-700.000.
  - Cha, Charles Y.; and Varsanik, Richard G., 4,680,135, Cl. 252-180.000.
  - Chan, Marie S., 4,672,090, Cl. 524-728.000.
  - Chen, Shih-Ruey T.; Costello, Christine A.; and Matz, Gary F., 4,652,623, Cl. 526-287.000.
  - Gill, Jasbir S.; and Varsanik, Richard G., 4,668,474, Cl. 422-14.000.
  - Hunter, Wood E.; and Craun, Gary P., 4,654,378, Cl. 522-3.000.
  - Hunter, Wood E.; and Craun, Gary P., 4,666,964, Cl. 524-106.000.
  - Jakubowski, John A., 4,655,815, Cl. 71-67.000.
  - Klein, William L.; and Sykes, Arthur R., 4,675,178, Cl. 424-65.000.
  - Klindera, William M., 4,675,158, Cl. 422-16.000.
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  - McCurdy, John W.; and Danyliw, Brian H., 4,705,672, Cl. 423-3.000.
  - Persinski, Leonard J.; Walker, Jerry L.; and Boffardi, Bennett P., 4,640,793, Cl. 252-82.000.
  - Roberts, Brian G.; and Rey, Paul A., 4,650,598, Cl. 252-88.000.
  - Walker, Jerry L.; and Zupanovich, John D., 4,681,737, Cl. 422-16.000.
  - Yorke, Monica A., 4,671,888, Cl. 252-180.000.
- Calhoun, Gregory L.: *See—*
  - Wilhelm, John J.; Calhoun, Gregory L.; Dawson, Paul H.; and Kramer, Arthur W., 4,637,588, Cl. 251-280.000.
- Calhoun, Myrtle M. Magnifying reading stand. 4,685,647, 8-11-87, Cl. 248-444.100.
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  - Tonus, Egidio L., 4,674,270, Cl. 53-556.000.
- California Auto Trends: *See—*
  - Albrecht, Leonard N., 4,712,828, Cl. 296-121.000.
- California Biotechnology, Inc.: *See—*
  - Schilling, James W., Jr.; White, Robert T.; and Cordell, Barbara, 4,659,805, Cl. 530-350.000.
- California Biotechology, Inc.: *See—*
  - Lewicki, John, 4,656,253, Cl. 530-387.000
- California Devices, Inc.: *See—*
  - Lipp, Robert, 4,682,201, Cl. 357-42.000.
- California Health Technologies: *See—*
  - Lippman, Richard D., 4,695,590, Cl. 514-724.000.
- California Institute of Technology: *See—*
  - Atzmon, Michael; Johnson, William L.; and Verhoeven, John D., 4,640,816, Cl. 419-24.000.
  - Bejczy, Antal K.; and Primus, Howard C., 4,694,153, Cl. 250-202.000.
  - Blaes, Brent R.; and Buehler, Martin G., 4,688,947, Cl. 368-120.000.
  - Britten, Roy J., 4,642,465, Cl. 250-389.000.
  - Chang, Manchium; Colvin, Michael S.; Rembaum, Alan; and Richards, Gil F., 4,707,523, Cl. 525-372.000.
  - Daube, Bruce C., Jr.; Flagan, Richard C.; and Hoffmann, Michael R., 4,697,462, Cl. 73-863.210.
  - Dervan, Peter B.; and Hertzberg, Robert P., 4,665,184, Cl. 546-109.000.
  - Edwards, Dean B.; and Rippel, Wally E., 4,664,992, Cl. 429-144.000.
  - Flagan, Richard C.; and Alam, Mohammed K., 4,642,227, Cl. 423-349.000.
  - Grubbs, Robert H.; and Swager, Tim M., 4,645,814, Cl. 526-256.000.
  - Grubbs, Robert H.; Gilliom, Laura R.; and Siove, Alain, 4,690,992, Cl. 526-160.000.
  - Hood, Leroy E.; Hunkapiller, Michael W.; Dreyer, William J.; Hewick, Rodney M.; and Stark, Anton W., 4,704,256, Cl. 422-68.000.
  - Hopfield, John J., 4,660,166, Cl. 364-807.000.
  - Hunkapiller, Michael W., 4,703,913, Cl. 251-61.100.
  - Kendall, James M., Jr.; Wang, Taylor G.; and Elleman, Daniel D., 4,643,854, Cl. 264-12.000.
  - Lee, Mark C.; Schilling, Christopher; Ladner, George O., Jr.; and Wang, Taylor G., 4,670,035, Cl. 65-21.400.
  - Margalit, Shlomo; Yariv, Amnon; and Rav-Noy, Zeev, 4,636,823, Cl. 357-23.300.
  - McLyman, Colonel W. T., 4,656,412, Cl. 320-39.000.
  - Mead, Carver A.; and Wawrzynek, John C., 4,716,312, Cl. 307-475.000.
  - Middlebrook, Robert D., 4,654,769, Cl. 363-16.000.
  - Nathan, Robert, 4,644,488, Cl. 364-724.000.
  - Peek, Ralf, 4,697,395, Cl. 52-167.000.
  - Rembaum, Alan, 4,678,814, Cl. 522-175.000.
  - Rowlette, John J., 4,658,499, Cl. 29-623.100.
  - Salzman, Joseph; Lang, Robert J.; and Yariv, Amnon, 4,674,096, Cl. 372-50.000.
  - Sipes, Donald L., Jr., 4,710,940, Cl. 372-75.000.
  - Wang, Taylor G.; Granett, Dan, and Akutagawa, Wesley M., 4,645,442, Cl. 425-6.000.
  - Wang, Taylor G.; Elleman, Daniel D.; Lee, Mark C.; and Kendall, James M., Jr., 4,701,436, Cl. 502-339.000.
- California Microwave, Incorporated: *See—*
  - Rogers, Robert G., 4,673,894, Cl. 331-96.000.
- California Pellet Mill Company: *See—*
  - Pierik, Henry, 4,659,299, Cl. 425-72.00R.
- California R & D Center: *See—*
  - Jones, Lawrence T.; Ishikawa, Paul J.; and Howden, Ashley G., 4,668,060, Cl. 353-15.000.
  - Jones, Lawrence T.; and Sims, Anson, 4,669,984, Cl. 434-85.000.
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  - Calundan, Kaj B., 4,643,299, Cl. 198-812.000.
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  - Carrick, Lawrence K., 4,664,401, Cl. 280-414.100.
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- Callaghan, Vincent M.; and Wolpert, Melvin J., III, to Combustion Engineering, Inc. Method and means for monitoring the continuity of a fluid-filled network of conduits and valves. 4,678,621, 7-7-87, Cl. 376-245.000.
- Callaham, William T.: *See—*
  - Turano, Louis R.; Callaham, William T.; Sherwood, John F.; and Thatcher, Richard E., 4,696,312, Cl. 131-109.100.
- Callahan, David T.; and Dobyns, David W., to Allen-Morrison, Inc. Changeable message outdoor advertising sign. 4,693,026, 9-15-87, Cl. 40-576.000.
- Callahan, Earnest J. Refractory stove damper with catalytic effect. 4,643,862, 2-17-87, Cl. 264-133.000.
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- Callahan, James L.: *See—*
  - Desmond, Michael J.; Pepera, Marc A.; and Callahan, James L., 4,705,675, Cl. 423-326.000.
  - Paparizos, Christos; Shaw, Wilfrid G.; and Callahan, James L., 4,714,695, Cl. 502-339.000.
- Callahan, Kent: *See—*
  - Jarosz, Andrew; and Callahan, Kent, 4,656,450, Cl. 336-83.000.
- Callahan, Michael. Control system for variable parameter fixtures. 4,697,227, 9-29-87, Cl. 362-233.000.
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- Callant, Paul R.: *See—*
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- Callaway, Robert L., Jr. Football lineman training apparatus. 4,688,795, 8-25-87, Cl. 273-55.00R.
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Counier, Louis F.; Callies, Fritz A.; and Lee, Phillip L., 4,643,291, Cl. 198-356.000.

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Callison, Douglas A., 4,662,397, Cl. 137-624.140.

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McLinden, Mark O.; Didion, David A.; and MacCracken, Calvin D., 4,687,588, Cl. 252-67.000.

man, Donald R. Simulated engraved print media. 4,671,538, 6-9-87, l. 283-1.00R.

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Dobbs, Douglas B., 4,706,888, Cl. 239-478.000.

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Inagami, Kaoru; and Ohtsu, Takawo, 4,661,126, Cl. 55-97.000.

Inagami, Kaoru; and Kikuchi, Noboru, 4,691,011, Cl. 530-832.000.

Yamane, Kunio; Ohmura, Kazutaka; Nakayama, Akira; and Takeichi, Yasutoshi, 4,663,294, Cl. 435-317.000.

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Boesten, Wilhelmus H. J.; and Cals, Maria J. H., 4,705,752, Cl. 435-106.000.

an Corporation: *See—*

Hammill, Harry B., III, 4,684,247, Cl. 356-152.000.

Lukowski, Frank J., Jr.; and Hammill, Harry B., III, 4,678,329, Cl. 356-152.000.

Wurster, Walter H., 4,644,146, Cl. 250-202.000.

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Wood, Louis L.; and Calton, Gary J., 4,650,755, Cl. 435-43.000.

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gna, James F.: *See—*

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Riccardo; Caponi, Renato, and Cisternino, Francesco, to tro Studi e Laboratori Telecomunicazioni SpA. Method of and ce for realtime measurement of the state of polarization of a si-monochromatic light beam. 4,671,657, 6-9-87, Cl. 356-349.000.

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Blancheton, Jean-Paul; Calvas, Jacques; Michel, Alain H.; and Vonau, Vincent, 4,640,227, Cl. 119-2.000.

John G.; Pearce, Phillip W.; and Zielinski, Erich, to Eastman dak Company. Semiconductor mounting assembly. 4,691,265, 87, Cl. 361-386.000.

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rt, Larry J. Vehicle hitch assembly. 4,662,647, 5-5-87, Cl. 280-00R.

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Kolodziej, Francis J.; and Calvert, Ronald L., 4,668,302, Cl. 134-6.000.

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Calviello, Joseph A., to Eaton Corporation. Edge junction schottky diode. 4,665,413, 5-12-87, Cl. 357-15.000.

Calviello, Joseph A., to Eaton Corporation. Method for making an edge junction schottky diode. 4,674,177, 6-23-87, Cl. 29-591.000.

Calviello, Joseph A., to Eaton Corporation. Method for fabricating MOMS semiconductor device. 4,683,642, 8-4-87, Cl. 437-40.000.

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Calvin, James W.: *See—*

Sheffield, Miller; Metcalfe, Robert S.; Calvin, James W.; and Chaback, Joseph J., 4,635,721, Cl. 166-268.000.

Calvin, Noel M. Microwave proximity sensor. 4,652,864, 3-24-87, Cl. 340-553.000.

Calvino, Rosella; Fruttero, Roberta; Messori, Vittorio; and Rodio, Francesco, to Enichem Sintesi S.p.A. Compositions containing heterocyclic compounds and their use as herbicides. 4,671,818, 6-9-87, Cl. 71-92.000.

Calzaturificio F.lli Danieli S.p.A.: *See—*

Danieli, Diego, 4,680,875, Cl. 36-31.000.

Calzi, Claudio, to Allied Corporation. Centrifugal analyzer. 4,652,137, 3-24-87, Cl. 356-427.000.

Cam Gears Limited: *See—*

Rogers, Peter R., 4,641,406, Cl. 29-159.200.

Cam Industries, Inc.: *See—*

Fry, Richard M., and McGough, Charles A., III, 4,653,965, Cl. 409-188.000.

Camac, Morton: *See—*

Caulfield, H. John; and Camac, Morton, 4,655,539, Cl. 350-3.600.

Camacho, Angel; and Camacho, Serge. Anatomical handle. 4,698,893, 10-13-87, Cl. 29-460.000.

Camacho, David P.: *See—*

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Camacho, Salvador L.; Dochterman, Jack L.; and Lindsay, Richard D., to Plasma Energy Corporation. Apparatus and method for treating metallic fines. 4,654,076, 3-31-87, Cl. 75-10.190.

Camacho, Salvador L., and Camacho, David P., to Plasma Energy Corporation. Power circuit apparatus for starting and operating plasma arc. 4,678,888, 7-7-87, Cl. 219-121.0PW.

Camacho, Salvador L., to Plasma Energy Corporation. Plasma arc heating apparatus and method. 4,694,464, 9-15-87, Cl. 373-22.000.

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Camaggi, Giovanni; Gozzo, Franco; Signorini, Ernesto; and Palla, Ottorino, to Montedison S.p.A. Method of protecting cultivations of agrarian interest from the action of nonselective herbicides. 4,702,762, 10-27-87, Cl. 71-90.000.

Camaggi, Giovanni: *See—*

Colle, Roberto; Camaggi, Giovanni; Gozzo, Franco; Visentin, Walter; and Mirenna, Luigi, 4,704,398, Cl. 514-383.000.

Palla, Ottorino; Camaggi, Giovanni; Gozzo, Franco; Menconi, Augusto; and Signorini, Ernesto, 4,661,599, Cl. 548-146.000.

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Allen, Roger F.; and Campbell, Colin I., 4,662,589, Cl. 244-143.000.

Camand, Michel: *See—*

Exarque, Jean; and Camand, Michel, 4,680,775, Cl. 375-39.000.

Camar S.p.A.: *See—*

Cattaneo, Carlo, 4,685,645, Cl. 248-188.800.

Camara, Michael A.: *See—*

Steltenkamp, Robert J.; and Camara, Michael A., 4,676,915, Cl. 252-8.800.

Steltenkamp, Robert J.; and Camara, Michael A., 4,682,982, Cl. 8-137.000.

Steltenkamp, Robert J.; and Camara, Michael A., 4,714,559, Cl. 252-8.800.

Steltenkamp, Robert J.; and Camara, Michael A., 4,715,862, Cl. 8-137.000.

Steltenkamp, Robert J.; and Camara, Michael A., 4,715,970, Cl. 252-8.800.

Camarda, Renato M.: *See—*

Ackerman, David A.; Camarda, Renato M.; Hartman, Robert L.; and Spector, Magaly, 4,684,883, Cl. 324-71.500.

Camardella, Giuseppe, to Tekma Kinomat S.p.A. Coil winder in line with two guide heads. 4,662,573, 5-5-87, Cl. 242-7.110.

Cambelt International Corporation: *See*—

Campbell, Colin D.; and Campbell, David R., 4,714,151, Cl. 198-860.500.

Cambiaghi, Stefano; Dallatomasina, Franco; Giardino, Pietro; Murador, Enzo; and Spreafico, Gaspare, to Farmitalia Carlo Erba S.p.A. Process for preparing peptides. 4,668,625, 5-26-87, Cl. 435-70.000.

Cambiano, Angelo M. Roll-off container handling mechanism. 4,645,405, 2-24-87, Cl. 414-494.000.

Cambio, Orlando D., Jr., to University of Pittsburgh. Syringe apparatus and valve employed therein. 4,662,868, 5-5-87, Cl. 604-32.000.

Cambo, William H.; Whitely, Elliott F.; and Bond, Leroy E., to Lydall, Inc. Composite having improved transverse structural integrity and flexibility for use in high temperature environments. 4,687,697, 8-18-87, Cl. 428-201.000.

Cambon, Aime: *See*—

Bertaina, Brigitte; Cambon, Aime; and Lantz, Andre, 4,683,339, Cl. 568-41.000.

Cambon, Gaston: *See*—

Attal, Jacques; and Cambon, Gaston, 4,641,530, Cl. 73-606.000.

Camborde, Jean-Marc; Schirlin, Marcel; and Perrot, Jean-Claude, to L'Etat Francais. Digital signal transmission cable noise analyzer. 4,654,862, 3-31-87, Cl. 375-10.000.

Camboulives, Andre A. M. L., to Societe Nationale d'Etude et de Construction de Moteur d'Aviation S.N.E.C.M.A. Exhaust nozzle assembly for a turbojet engine. 4,641,783, 2-10-87, Cl. 239-265.390.

Cambria, Emanuel F., to Cars & Concepts, Inc. Latch mechanism for removable roof panel. 4,637,649, 1-20-87, Cl. 296-224.000.

Cambridge BioScience Corporation: *See*—

Buck, Gerald F.; Roberts, John W.; and Sable, Steven, 4,689,204, Cl. 422-100.000.

Cambridge Consultants Limited: *See*—

Storey, Michael J., 4,647,907, Cl. 340-347.0DA.

Cambridge, Edward L.; Loutfy, Raouf O.; Withers, James C.; and Blake, Daniel M., to Atlantic Richfield Company. Production of high purity alumina. 4,634,581, 1-6-87, Cl. 423-126.000.

Cambridge Engineering, Inc.: *See*—

Searcy, James A.; Zoellner, Roger O.; and Hoffmann, Ronald C., 4,700,688, Cl. 126-299.00D.

Cambridge Filter Corp.: *See*—

Gualtieri, Peter J.; and Goulet, Roger T., 4,646,558, Cl. 73-40.700.

Cambridge Instrument Company plc, The: *See*—

Michalik, John K., 4,640,616, Cl. 356-136.000.

Cambridge Instruments GmbH: *See*—

Bauer, Ludwig; Schneider, Erwin; Rensch, Walter; and Weinhold, Helmut, 4,702,464, Cl. 269-55.000.

Behme, Werner; and Berleth, Manfred, 4,691,151, Cl. 318-571.000.

Berleth, Manfred, 4,695,046, Cl. 269-210.000.

Cambridge Instruments Inc.: *See*—

Berleth, Manfred; and Weinhold, Helmut, 4,690,023, Cl. 83-700.000.

John, Puthenpurackal K.; and Shoemaker, Arthur H., 4,715,697, Cl. 350-502.000.

Magnante, Peter C., 4,702,576, Cl. 351-214.000.

Cambridge Manufacturing Climate Control Products Inc.: *See*—

Seguin, Michael, 4,655,278, Cl. 165-2.000.

Cambridge Technologies, Inc.: *See*—

Holdt, Donald H., 4,691,962, Cl. 297-84.000.

Camco, Incorporated: *See*—

Blizzard, William A., 4,660,646, Cl. 166-321.000.

Boeke, Eric J.; and McCoy, Milton E., 4,711,304, Cl. 166-303.000.

Going, Walter S., III, 4,649,993, Cl. 166-65.100.

Johnston, Russell A.; and May, Dwayne E., 4,651,822, Cl. 166-117.500.

Knieriemen, Jeffrey L., 4,688,641, Cl. 166-387.000.

Morris, Arthur J.; Newton, Donald E.; and Pringle, Ronald E., 4,694,908, Cl. 166-310.000.

Morris, Arthur J., 4,703,805, Cl. 166-324.000.

Pringle, Ronald E., 4,669,547, Cl. 166-321.000.

Pringle, Ronald E., 4,676,307, Cl. 166-322.000.

Pringle, Ronald E.; and Morris, Arthur J., 4,688,593, Cl. 137-116.000.

Pringle, Ronald E., 4,691,776, Cl. 166-319.000.

Pringle, Ronald E., 4,709,762, Cl. 166-324.000.

St. Louis, Robert M., 4,656,340, Cl. 219-532.000.

St. Louis, Robert M., 4,677,760, Cl. 34-90.000.

St. Louis, Robert M., 4,687,262, Cl. 312-276.000.

Camden, Thomas M., Jr.; and Freeman, Thomas R., to Westinghouse Electric Corp. Nuclear reactor fuel assembly and method of forming same. 4,637,915, 1-20-87, Cl. 376-435.000.

Camden Laboratories: *See*—

Campbell, Bruce T., 4,642,894, Cl. 30-169.000.

Camenzind, Hans R. Electronic proximity key and lock. 4,713,660, 12-15-87, Cl. 340-825.690.

Camera, Ettore: *See*—

De Lucchi, Ottorino; Filippuzzi, Fabiola; Modena, Giorgio; and Camera, Ettore, 4,713,466, Cl. 549-464.000.

Camerik, Eduard, to U.S. Philips Corporation. Optical disc player. 4,661,940, 4-28-87, Cl. 369-111.000.

Cameron, Alan B.: *See*—

Ernst, Helmut; Breier, Alfred; Schwalbach, Manfred; Will, Karl-Heinz; Cameron, Alan B.; and Bates, Peter C., 4,680,009, Cl. 432-117.000.

Cameron, Allan, Sr. Apparatus for conducting hot gases from an exhaust pipe. 4,693,421, 9-15-87, Cl. 239-129.000.

Cameron, Allan L.: *See*—

Tella, Sherwood T.; Cameron, Allan L.; von Buelow, John; and Hauser, Stephen G., 4,650,095, Cl. 222-153.000.

Cameron, David L. Vehicle rear lighting system displaying red colored light only during braking. 4,661,795, 4-28-87, Cl. 340-71.000.

Cameron, David L. Calculator for chemical stoichiometry. 4,689,753, 8-25-87, Cl. 364-496.000.

Cameron, David S., to General Motors Corporation. Vehicle suspension strut with lower rotary bearing cup assembly for a dirigible road wheel. 4,648,623, 3-10-87, Cl. 280-711.000.

Cameron, David S., to General Motors Corporation. Hydraulically damped dual sleeve air spring suspension. 4,655,438, 4-7-87, Cl. 267-8.00R.

Cameron, Donald C., to Dowell Schlumberger Incorporated. Reducer coupling and positioner tool for the coupling. 4,659,115, 4-21-87, Cl. 285-12.000.

Cameron, Donald C., to Dowell Schlumberger Incorporated. Pipe union for cryogenic fluids. 4,659,116, 4-21-87, Cl. 285-27.000.

Cameron, Donald C.; and Shireman, Paul M., to Dowell Schlumberger Incorporated. Frangible pressure relief disc assembly and positive displacement pumps containing the disc assembly. 4,687,421, 8-18-87, Cl. 417-296.000.

Cameron, Emmet H. Shoe traction apparatus. 4,702,021, 10-27-87, Cl. 36-62.000.

Cameron, Gordon M., to C-I-L Inc. Sulphur trioxide absorption apparatus and process. 4,654,205, 3-31-87, Cl. 423-522.000.

Cameron, Gordon M.; and Whitters, Robert F., to C-I-L Inc. Generation of sulphur trioxide from oleum. 4,663,142, 5-5-87, Cl. 423-532.000.

Cameron, Ian R.: *See*—

Westall, Frederick A.; Lee, Dominic S.; Cameron, Ian R.; and McLintock, Robert W., 4,703,480, Cl. 370-111.000.

Cameron Iron Works, Inc.: *See*—

Baker, Gerald S., 4,682,499, Cl. 73-701.000.

Baker, Gerald S., 4,705,062, Cl. 137-315.000.

Bartholomew, Roy E.; Pettus, Ronald G.; Schnitzer, Emanuel; and Fisher, Edmund A., 4,646,840, Cl. 166-350.000.

Copley, Kelly S., 4,645,214, Cl. 277-112.000.

Crotwell, Gerald W., 4,651,830, Cl. 166-338.000.

Galle, Edward M., Jr.; Gendron, Kevin; and Berner, Paul C., Jr., 4,691,780, Cl. 166-348.000.

Kilmoyer, James E., 4,635,670, Cl. 137-75.000.

Pettus, Ronald G.; and Schmitz, Thomas R., 4,693,497, Cl. 285-12.000.

Schmitz, Thomas R., 4,662,663, Cl. 285-382.500.

Schmitz, Thomas R.; and Taylor, William M., 4,696,494, Cl. 285-18.000.

Schnitzer, Emanuel; and Williams, Leonard E., Jr., 4,682,559, Cl. 114-295.000.

Cameron, John T.: *See*—

Sargent, Charles L.; Antos, John M.; Hoffman, John A.; and Cameron, John T., 4,641,383, Cl. 4-323.000.

Cameron, Joseph, to P.T.I., Inc. Mobile telephone controller switch. 4,644,105, 2-17-87, Cl. 379-56.000.

Cameron, Kenneth A. Horse shoe. 4,690,222, 9-1-87, Cl. 168-4.000.

Cameron, Larry: *See*—

Weintraub, Marvin H.; Bernier, Donald R.; and Cameron, Lar 4,693,419, Cl. 239-63.000.

Cameron, Maclyn C., Jr.; Hu, Charles C.; and Mix, Jerome M., to Watt Watcher, Inc., The. Occupancy sensor. 4,661,720, 4-28-87, Cl. 307-117.000.

Cameron, Murray C. Hydroponic growing system and stackable modular components thereof. 4,704,818, 11-10-87, Cl. 47-62.000.

Cameron, Neil W., to Britoil Public Limited Company; and Standard Telephones and Cables Public Limited Company. Seismic streamer section. 4,689,774, 8-25-87, Cl. 367-20.000.

Cameron, Neil W.: *See*—

Bryant, Michael J.; Attenborough, Frank R.; Sykes, Christopher G.; and Cameron, Neil W., 4,638,469, Cl. 367-154.000.

Cameron, Robert E. Adjustable cable driven carriage system and method. 4,697,487, 10-6-87, Cl. 83-708.000.

Cameron, Robert W. Chemical emergency light. 4,635,166, 1-6-87, Cl. 362-34.000.

Cameron, Robert W. Composite metallic core line. 4,640,179, 2-3-87, Cl. 87-6.000.

Cameron, Robert W. Line throw-bag. 4,713,033, 12-15-87, Cl. 441-84.000.

Cameron, Thomas B.; Swanson, Wilbur W.; Tartaglia, John M.; and Cox, Thomas B., to Amax Inc. Production of aluminum-SiC composite using sodium tetrasborate as an addition agent. 4,713,111, 12-15-87, Cl. 75-68.00R.

Cameron, Thomas M.; and Betlinski, Glenn M., to Dresser Industries, Inc. Fan guard assembly. 4,634,346, 1-6-87, Cl. 416-247.00R.

Cameron, Warde M., Jr.: *See*—

Nordgren, Gregory N.; and Cameron, Warde M., Jr., 4,676,530, Cl. 285-93.000.

Cameronics Technology Corporation, Ltd.: *See*—

Raith, Siegfried K., 4,708,467, Cl. 355-53.000.

Camet, Inc.: *See*—

Retallick, William B., 4,673,553, Cl. 422-180.000.

Retallick, William B., 4,677,839, Cl. 72-402.000.

Camiciotti, Leonardo; and Furia, Edoardo, to Novitex s.r.l. Needle-selecting system for circular knitting machine. 4,709,563, 12-1-87, Cl. 66-222.000.

Camilleri, Charles F., to Lee-Rowan Company. Support brace assembly. 4,662,595, 5-5-87, Cl. 248-250.000.

- milleri, Charles F., to Lee-Rowan Company. Wall anchor. 4,662,808, 5-5-87, Cl. 411-340.000.
- milleri, Charles F., to Lee-Rowan Company. Back clip. 4,669,936, -2-87, Cl. 411-340.000.
- milleri, Paul, to S.W.R. (Australia) Pty. Ltd. Casting of structural walls. 4,681,483, 7-21-87, Cl. 405-267.000.
- millo Corvi S.p.A.: *See—*
  - Corvi Mora, Camillo, 4,665,224, Cl. 560-56.000.
  - Corvi Mora, Camillo, 4,672,055, Cl. 514-29.000.
  - Mora, Camillo C., 4,644,087, Cl. 568-823.000.
  - Mora, Camillo C., 4,652,568, Cl. 514-263.000.
- nin, Geary E., and Uken, William D., to Raychem Corporation ealing material. 4,680,233, 7-14-87, Cl. 428-424.600.
- nno Laboratories, Inc.: *See—*
  - Bailey, Wilber H., 4,705,047, Cl. 128-672.000.
- isso, Frank: *See—*
  - Sweeney, Patrick; Camisso, Frank; and Burns, Scott, 4,688,363, Cl. 52-407.000.
- libel, Irfan; Chin, Aland K.; Singh, Shobha; Van Uitert, LeGrand ; and Zydzik, George J., to AT&T Bell Laboratories. Coating of I-V and II-VI compound semiconductors. 4,634,474, 1-6-87, Cl. -1.500.
- libel, Irfan: *See—*
  - Burton, Randolph H.; Camlibel, Irfan; and Saul, Robert H., 4,700,210, Cl. 357-17.000.
- m, David M., to Fusion Systems Corporation. Lamp having segmented reflector. 4,683,525, 7-28-87, Cl. 362-346.000.
- m, David M.; Kjorvel, Arne; Halpin, Nicholas P.; and Housden, nthony J. D., to Vortek Industries, Ltd. High intensity radiation paratus having vortex restriction means. 4,700,102, 10-13-87, Cl. 3-24.000.
- m, John J., to Repco Limited. Vehicle brake system and valve. 45,270, 2-24-87, Cl. 303-7.000.
- mack, Michael A.: *See—*
  - Smith, David W.; and Cammack, Michael A., 4,674,687, Cl. 239-447.000.
- m, Sergio; D'Este, Arturo; and Pescetelli, Alessandro, to **SAMIM** cieta Azionaria Minero-Mettallurgica, S.p.A. Process for purifying utions of zinc sulphate. 4,637,832, 1-20-87, Cl. 75-109.000.
- ga S.p.A.: *See—*
  - Mascetti, Paolo, 4,713,950, Cl. 69-10.000.
- sso, Domenico; Colanzi, Franco; and Ragazzoni, Silvio, to RIV-F Officine di Villar Perosa S.p.A. Oiltight hydraulic tappet for trolling an internal combustion engine valve. 4,640,238, 2-3-87, Cl. -90.550.
- Dresser & McKee: *See—*
  - Meckler, Gershon, 4,635,446, Cl. 62-271.000.
  - Meckler, Gershon, 4,657,178, Cl. 236-13.000.
- J. Tony: *See—*
  - upta, Ashis S.; and Camp, J. Tony, 4,636,337, Cl. 261-64.300.
- Jean-Jacques: *See—*
  - eysset, Jean-Paul; Camp, Jean-Jacques; and Noel, Didier, 4,686,067, Cl. 252-626.000.
- Jerald T.: *See—*
  - upta, Ashis S.; and Camp, Jerald T., 4,680,060, Cl. 134-26.000.
- Joan A. Standing seed planter. 4,694,760, 9-22-87, Cl. 111-92.000.
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  - lip, Graham R.; Camp, Ronnie W.; and Orr, Clyde, Jr., 4,693,124, Cl. 73-863.110.
- William O. Mat cutter guide. 4,651,607, 3-24-87, Cl. 83-467.00R.
- gna, Nicholas F.: *See—*
  - ang, Tzong Y.; and Campagna, Nicholas F., 4,649,347, Cl. 24-309.000.
- gnolo S.p.A.: *See—*
  - a, Mario, 4,682,514, Cl. 74-594.600.
  - a, Mario G., 4,699,605, Cl. 474-82.000.
  - chelotti, Guido, 4,667,881, Cl. 239-375.000.
- gnuolo, Carl J.; and Benderly, Asaf A., to United States of rica, Army. Multimode flashlight. 4,701,835, 10-20-87, Cl. 92.000.
- a, Joseph E., to United States of America, Navy. Ion beam lizer. 4,713,542, 12-15-87, Cl. 250-251.000.
- a, Patsie C. Wrapped thermal torch and method. 4,660,807, 7, Cl. 266-75.000.
- ell, Ronald J. Tack driver. 4,709,765, 12-1-87, Cl. 173-119.000.
- ella, Ermen: *See—*
  - uarette, Ernest R., Jr.; Crouse, Stanley G.; Campanella, Ermen; and Boiti, Franco, 4,679,653, Cl. 182-2.000.
- elli, Michael R.: *See—*
  - e, Donald J.; Hawkins, William G.; and Campanelli, Michael 4,639,748, Cl. 346-140.00R.
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- Campau, Daniel N. System for distributing water flow between a reservoir and a water source. 4,708,084, 11-24-87, Cl. 114-255.000.
- Campbell, Allan G., III: *See—*
  - Brasch, Miles E., and Campbell, Allan G., III, 4,633,607, Cl. 40-530.000.
- Campbell, Arlin L., to Burlington Industries, Inc. Tube gripper. 4,646,988, 3-3-87, Cl. 242-110.200.
- Campbell, Arthur L.; Evans Radak, Suzanne; and Loots, Melanie J., to G. D. Searle & Co. 4H-pyrimido[2,1-a]isoquinolin-4-one derivatives. 4,661,592, 4-28-87, Cl. 544-252.000.
- Campbell, Bonnie J.: *See—*
  - Cunningham, James L., and Campbell, Bonnie J., 4,660,630, Cl. 165-133.000.
  - Cunningham, James L.; and Campbell, Bonnie J., 4,692,978, Cl. 29-157.30A.
- Campbell, Brian R.: *See—*
  - Swindall, William S.; Campbell, Brian R.; and Kobi, Donald H., 4,674,327, Cl. 73-146.000.
- Campbell, Bruce D.; Triplett, James T.; and Tylor, Richard E., to Raychem Corp. Methods and apparatus for optical fiber systems. 4,664,732, 5-12-87, Cl. 156-158.000.
- Campbell, Bruce D.; Triplett, James T.; and Tylor, Richard E., to Raychem Corp. Methods, apparatus and articles for optical fiber systems. 4,679,907, 7-14-87, Cl. 350-320.000.
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- Campbell, Bruce T., to Camdent Laboratories. Home care denture grinding instrument. 4,642,894, 2-17-87, Cl. 30-169.000.
- Campbell, Charles M.: *See—*
  - Fair, Kenneth E.; and Campbell, Charles M., 4,715,558, Cl. 242-199.000.
- Campbell, Colin B.: *See—*
  - Polk, Matthew S.; and Campbell, Colin B., 4,638,505, Cl. 381-24.000.
- Campbell, Colin D., and Campbell, David R., to Cambelt International Corporation. Apparatus for supporting and enclosing conveyor systems. 4,714,151, 12-22-87, Cl. 198-860.500.
- Campbell, Colin I.: *See—*
  - Allen, Roger F.; and Campbell, Colin I., 4,662,589, Cl. 244-143.000.
- Campbell, Curtis B., to Chevron Research Company. Lubricating oil compositions containing hydroxy polyether polyamines. 4,696,755, 9-29-87, Cl. 252-515.00R.
- Campbell, Daniel P.: *See—*
  - Larsen, James W.; and Campbell, Daniel P., 4,698,522, Cl. 307-309.000.
- Campbell, David A., to Burroughs Wellcome. Vaccines for equine influenza. 4,693,893, 9-15-87, Cl. 424-89.000.
- Campbell, David C., to Pico Electronics Limited. Electrical appliance control. 4,638,299, 1-20-87, Cl. 340-310.00A.
- Campbell, David K.: *See—*
  - Towner, David K.; and Campbell, David K., 4,688,201, Cl. 369-44.000.
- Campbell, David L., to Pronto Service Facilities, Inc. Hood conveying apparatus having an outwardly reaching basket. 4,712,650, 12-15-87, Cl. 186-41.000.
- Campbell, David L., to Advanced Micro Devices, Inc. High-current operational amplifier. 4,716,381, 12-29-87, Cl. 330-256.000.
- Campbell, David R.: *See—*
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- Campbell, David W.: *See—*
  - Beck, Jeffrey L.; and Campbell, David W., 4,693,826, Cl. 210-512.100.
  - El-Saie, Ahmed A.; and Campbell, David W., 4,676,810, Cl. 55-203.000.
- Campbell Design Group: *See—*
  - Labarile, Paul, 4,658,923, Cl. 177-255.000.
- Campbell, Donald N.: *See—*
  - Vora, Kishore N.; Carrico, John P., Sr.; Spangler, Glenn E.; Campbell, Donald N.; and Martin, Charles E., 4,712,008, Cl. 250-287.000.
- Campbell, Donn V.; Dubowicz, Palemon W.; and Hoverter, Robert T., to United States of America, Army. Highly decoupled cosited antennas. 4,700,196, 10-13-87, Cl. 343-797.000.
- Campbell, Donnie R., to North American Philips Corporation. Whisker disc assembly. 4,688,741, 8-25-87, Cl. 242-128.000.
- Campbell, Edward N., to Dana Corporation. Vice jaw support apparatus. 4,711,439, 12-8-87, Cl. 269-277.000.
- Campbell, Edward R., III; and Lewis, Henry G., Jr., to RCA Corporation. Circuitry for reducing demodulation phase error as for an automatic deghosting system. 4,686,569, 8-11-87, Cl. 358-167.000.
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  - Rabideau, Sherman W.; and Campbell, George M., 4,670,239, Cl. 423-251.000.
- Campbell, Harold L., to Werkzeugmaschinenfabrik Oerlikon-Buhrle AG. Hermetic seal for window usable with infrared detector. 4,647,244, 3-3-87, Cl. 403-179.000.
- Campbell, Harry J., III. Dynamic balancing for skis. 4,694,684, 9-22-87, Cl. 73-65.000.
- Campbell, Henry F. Prefabricated building panels. 4,637,187, 1-20-87, Cl. 52-404.000.
- Campbell, Henry F.: *See—*
  - Kuhla, Donald E.; Campbell, Henry F.; and Studt, William L., 4,638,001, Cl. 514-212.000.
  - Kuhla, Donald E.; Campbell, Henry F.; and Studt, William L., 4,639,442, Cl. 514-212.000.
  - Kuhla, Donald E.; Campbell, Henry F.; and Studt, William L., 4,647,559, Cl. 514-212.000.
  - Kuhla, Donald E.; Campbell, Henry F.; Studt, William L.; Molino, Bruce F.; Tucker, Thomas J.; and Banti, Ferdinand, Jr., 4,666,913, Cl. 514-259.000.
  - Kuhla, Donald E.; Campbell, Henry F.; Studt, William L.; and Neuenschwander, Kent W., 4,668,673, Cl. 514-212.000.
  - Kuhla, Donald E.; Studt, William L.; Campbell, Henry F.; and Yelnosky, John, 4,689,335, Cl. 514-361.000.
  - Kuhla, Donald E.; Campbell, Henry F.; and Studt, William L., 4,692,445, Cl. 514-212.000.
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  - Kuhla, Donald E.; Campbell, Henry F.; Studt, William L.; and Dodson, Stuart A., 4,704,388, Cl. 514-222.000.
  - Kuhla, Donald E.; Studt, William L.; Campbell, Henry F.; and Yelnosky, John, 4,714,707, Cl. 514-361.000.
- Campbell, Herbert F.: *See—*
  - Christ, Christy; Campbell, Herbert F.; Fields, Gayle P.; and Burris, James L., 4,716,075, Cl. 428-285.000.
- Campbell, Ira J.; Morris, John L., Jr.; Whalen, Thomas J.; Fields, Frederick R.; and Klingenhoff, Herbert, to Westinghouse Electric Corp. Boring bar assembly. 4,668,133, 5-26-87, Cl. 408-81.000.
- Campbell, Jack B.; and Lavagnino, Edward R., to Eli Lilly and Company. Isoquinoline derivatives as immune regulants. 4,670,442, 6-2-87, Cl. 514-283.000.
- Campbell, Jack J.: *See—*
  - Faroudja, Yves C.; and Campbell, Jack J., 4,670,775, Cl. 358-36.000.
  - Faroudja, Yves C.; and Campbell, Jack J., 4,672,429, Cl. 358-36.000.
  - Faroudja, Yves C.; and Campbell, Jack J., 4,706,112, Cl. 358-31.000.
- Campbell, James F.: *See—*
  - Johnson, Gary E.; Van Egeren, Andrew M.; Campbell, James F.; and Spencer, Harvey J., 4,650,173, Cl. 270-45.000.
- Campbell, James S.: *See—*
  - Kramer, Kane N.; and Campbell, James S., 4,667,088, Cl. 235-380.000.
- Campbell, Jeptha E., to Spiral Systems Inc. Apparatus for dispensing particulate agglomerating solids. 4,688,610, 8-25-87, Cl. 141-83.000.
- Campbell, John, to Cosworth Research and Development Limited. Casting of metal articles. 4,693,292, 9-15-87, Cl. 164-34.000.
- Campbell, John E.: *See—*
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- Campbell, John G.: *See—*
  - Cline, Ronald L.; and Campbell, John G., 4,651,038, Cl. 307-591.000.
- Campbell, John M., to Boeing Company, The. Depression angle ranging system and methods. 4,670,758, 6-2-87, Cl. 342-458.000.
- Campbell, John W.: *See—*
  - Ziegelmeyer, Harold R., 4,636,220, Cl. 623-53.000.
- Campbell, Joseph I.; and Lombardi, William T. Bottom stacking tray. 4,670,001, 6-2-87, Cl. 493-413.000.
- Campbell, Joseph J.: *See—*
  - Lang, James J., 4,710,304, Cl. 210-734.000.
- Campbell, Jules D., Jr., to Motorola, Inc. Power-on-reset circuit having a differential comparator with intrinsic offset voltage. 4,634,905, 1-6-87, Cl. 307-594.000.
- Campbell, Kent D.; Dietsche, Laura J.; Crampton, Lee B.; Hovda, Keith D.; Tyson, George K.; and Wilson, Charles A., to Dow Chemical Company, The. Process for the recovery of ammonia and fluoride values from ammonium fluoride solutions. 4,713,231, 12-15-87, Cl. 423-356.000.
- Campbell, Lawrence C., to Jaco Manufacturing Company. Quick-connect tube coupling. 4,635,975, 1-13-87, Cl. 285-340.000.
- Campbell, Lawrence J. Construction game apparatus. 4,666,162, 5-19-87, Cl. 273-249.000.
- Campbell, Leonard. Lubricating system for a weaving machine. 4,693,282, 9-15-87, Cl. 139-1.00R.
- Campbell, Max L.; and Flesher, Jerome A., to Campbell, Max L. Point of purchase advertising system. 4,670,798, 6-2-87, Cl. 360-12.000.
- Campbell, Michael: *See—*
  - Roll, Walter F.; and Campbell, Michael, 4,690,486, Cl. 350-6.600.
- Campbell, Neil: *See—*
  - Sedlacek, Robert S.; and Campbell, Neil, 4,640,228, Cl. 119-15.000.
- Campbell, Nickie G.: *See—*
  - Campbell, William O.; and Campbell, Nickie G., 4,700,856, Cl. 215-11.00E.
- Campbell, Patricia S.; and Eckenhoff, James B., to Alza Corporation. Transdermal therapeutic system having improved delivery characteristics. 4,704,282, 11-3-87, Cl. 424-449.000.
- Campbell, Philip: *See—*
  - Yuen, Peter S. L.; Campbell, Philip; Montin, John L.; and Ardron Keith H., 4,645,635, Cl. 376-245.000.
- Campbell, Richard D., to American Standard Inc. Fail-safe pulse coincidence detector. 4,661,722, 4-28-87, Cl. 307-419.000.
- Campbell, Richard E., Jr., to Dow Chemical Company, The. Organoactinide polymer catalysts. 4,665,046, 5-12-87, Cl. 502-102.000.
- Campbell, Richard E., Jr.: *See—*
  - Coleman, William M., III; Schmidt, Gregory F.; Campbell, Richard E., Jr.; and Delaney, Mark S., 4,659,685, Cl. 502-113.000.
- Campbell, Richard S., Sr.: *See—*
  - Moorehead, Jack F.; and Campbell, Richard S., Sr., 4,678,564, C 210-108.000.
- Campbell, Robert E.: *See—*
  - Schmitt, Eugene W.; and Campbell, Robert E., 4,648,661, C 303-23.00R.
- Campbell, Robert L.; Wagner, Daniel B.; and O'Connell, James P., t Becton Dickinson and Company. Solid phase assay with visual reac out. 4,703,017, 10-27-87, Cl. 436-501.000.
- Campbell, Robert R., to Westinghouse Electric Corp. Variable PR target tracking radar. 4,642,641, 2-10-87, Cl. 342-82.000.
- Campbell, Rolf W. J., to Land O'Lakes, Inc. Package with spreader fo spreadable material. 4,648,506, 3-10-87, Cl. 206-216.000.
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  - Hillen, Klaus; Price, Anthony G.; and Campbell, Roy, 4,676,34 Cl. 188-72.200.
  - Price, Anthony G.; Parry, David; and Campbell, Roy, 4,653,61 Cl. 188-70.00B.
  - Price, Anthony G.; and Campbell, Roy, 4,685,541, Cl. 188-71.40
  - Price, Anthony G.; and Campbell, Roy, 4,702,351, Cl. 188-71.40
  - Price, Anthony G.; Bishop, Robert R.; and Campbell, Ro 4,703,836, Cl. 188-71.400.
  - Price, Anthony G.; Campbell, Roy; and Green, Andrew F 4,711,327, Cl. 188-71.400.
- Campbell, Scott O.: *See—*
  - Burson, Klye L.; Campbell, Scott O.; Ganesan, Apparajan; an Morrison, Ronald A., 4,677,322, Cl. 307-525.000.
- Campbell, Simon F.; and Hardstone, John D., to Pfizer Inc. Quinolin therapeutic agents. 4,656,174, 4-7-87, Cl. 514-254.000.
- Campbell, Simon F.; Cross, Peter E.; Stubbs, John K.; and Arrowsmit John E., to Pfizer Inc. 2-pyrimidylaminoalkoxymethyl-6-methyl-3, bis (alkoxycarbony-1)-1,4-dihydropyridine antihypertensive agen 4,661,485, 4-28-87, Cl. 514-247.000.
- Campbell, Simon F.; Cross, Peter E.; Stubbs, John K.; and Arrowsmit John E., to Pfizer Inc. Dihydropyridines. 4,670,449, 6-2-87, C 514-341.000.
- Campbell, Simon F.; and Hardstone, John D., to Pfizer Inc. Quinolin therapeutic agents. 4,686,228, 8-11-87, Cl. 514-307.000.
- Campbell, Simon F.; and Roberts, David A., to Pfizer Inc. Quinolo inotropic agents. 4,710,507, 12-1-87, Cl. 514-312.000.
- Campbell, Simon F.; and Kobylecki, Ryszard J., to Pfizer Inc. Octah dro-6-azaindole compounds, compositions and use. 4,711,88 12-8-87, Cl. 514-228.000.
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  - Arrowsmith, John E.; Campbell, Simon F.; Cross, Peter E. a Dickinson, Roger F., 4,647,565, Cl. 514-260.000.
- Campbell Soup Company: *See—*
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  - Bradley, Donald B., 4,670,281, Cl. 426-481.000.
  - Clatfelter, Kenneth A.; Story, John D.; and Webb, Jerry 4,663,173, Cl. 426-281.000.
  - Clatfelter, Kenneth A.; and Webb, Jerry E., 4,675,947, 17-47.000.
  - Dahle, Leland K.; and Montgomery, Erich P., 4,659,576, 426-324.000.
  - Goldhahn, Stephen L., 4,660,468, Cl. 99-470.000.
  - Lewbart, Harry M., 4,641,672, Cl. 134-62.000.
  - Lynch, Donald J.; and Shivers, Raymond P., 4,636,393, 426-276.000.
  - Robinson, Albert H., Jr.; and Egee, Walter W., deceased, 4,636,3 Cl. 426-511.000.
  - von Lersner, Wolf A., 4,676,279, Cl. 141-1.000.
- Campbell, Sterrett P., to AMF Incorporated. Dough pump with deg sing system. 4,661,364, 4-28-87, Cl. 425-496.000.
- Campbell, Steve G., to Quantum Corporation. Magnetically bia aerodynamically released integral safety latch for rigid disk dri 4,692,829, 9-8-87, Cl. 360-105.000.
- Campbell, Steven G.: *See—*
  - Moon, Ronald R.; Machado, Michael G.; Cooper, Thomas Weiher, Patrick M.; Bruner, Curtis H.; Strysko, Mark E.; Uhl dorf, Gregg J.; Campbell, Steven G.; Quan, Tuong T.; Luong, Hoa V., 4,669,004, Cl. 360-77.000.
- Campbell, Todd D.: *See—*
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  - Nashef, Aws S.; and Campbell, Todd D., 4,678,470, Cl. 623-16.0
- Campbell, W. Sherwood: *See—*
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- Campbell, Wayne A., to Minnesota Mining and Manufacturing Company. Skeletal tissue stimulator and a low voltage oscillator circuit for use therein. 4,665,920, 5-19-87, Cl. 128-422.000.
- Campbell, William F.: *See—*
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- Campbell, William J.: *See—*
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- Campbell, William O.; and Campbell, Nickie G. Baby bottle with disposable liner. 4,700,856, 10-20-87, Cl. 215-11.00E.
- Campbell, William P. Insulated container hinge seal. 4,643,327, 2-17-87, Cl. 220-215.000.
- Campbell, William P., III. Amorphous silicon devices and method of producing. 4,705,913, 11-10-87, Cl. 136-258.000.
- Campen, George V.: *See—*
  - Snyder, Leon T.; Scarfone, Frank A.; Reuss, James L.; Campen, George V.; and Yates, George H., 4,686,999, Cl. 128-716.000.
- Campen, Kenneth W., to Tecumseh Products Company. Ignition system. 4,712,521, 12-15-87, Cl. 123-149.00C.
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  - Baines, Alfred H. P., deceased; Campetti, Gianfranco; Baumgartl, Walter A.; and Nusse, Klaus J. R., 4,644,312, Cl. 335-236.000.
- Camph, Sven E. Means for transmitting brake force. 4,638,893, 1-27-87, Cl. 188-79.5GE.
- Campidelli, Yves: *See—*
  - Arnaud D'Avitaya, Francois; Campidelli, Yves; and Pantel, Roland, 4,643,914, Cl. 427-93.000.
- Campione, Ben, to Harris Corporation. Low power sense amplifier. 4,701,644, 10-20-87, Cl. 307-530.000.
- Campisi, Carl; Kaliszek, Andrew W.; and Klein, Elmer M., to Zenith Electronics Corporation. Component handling apparatus. 4,663,821, 5-12-87, Cl. 29-564.200.
- Campisi, Carl; Kilinskis, David C.; and Sorlie, Egil, to Zenith Electronics Corporation. Automatic storage and retrieval system and method. 4,704,517, 11-3-87, Cl. 235-382.000.
- Campoli, Ralph F., to General Defense Corporation. Rocket launching cartridge case and assembly. 4,640,195, 2-3-87, Cl. 102-430.000.
- Campolito, Dino. Tube cutting device. 4,712,954, 12-15-87, Cl. 409-163.000.
- Campolo, Steve, to Leviton Manufacturing Company, Inc. Thermal sensor for a lighting fixture. 4,694,223, 9-15-87, Cl. 315-118.000.
- Campos, Robert G.: *See—*
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- Camprincoli, Pierpaolo: *See—*
  - Clementini, Luciano; Camprincoli, Pierpaolo; Marcaccioli, Enzo; and Gemmi, Alfredo, 4,671,986, Cl. 428-216.000.
- Camps, Patrick; and Roset, Pierre, to Thomson-CSF. Method of assembly of at least two components of ceramic material each having at least one flat surface. 4,661,181, 4-28-87, Cl. 156-89.000.
- Campsey, Ronald L.: *See—*
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- Camrey Industries, Inc.: *See—*
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- Camus, Michel, to Arjomari-Prioux. Security document using optical fibers and authentication method. 4,710,614, 12-1-87, Cl. 235-380.000.
- Can and Bottle Systems, Inc.: *See—*
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- Can-Eng Holdings, Ltd.: *See—*
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- Can, Tran D. Method for manufacturing a swab. 4,707,318, 11-17-87, Cl. 264-138.000.
- Canada, Atomic Energy of, Limited: *See—*
  - Bigham, C. Bruce; Burton, Robert J.; and McGregor, James E. A., 4,684,180, Cl. 439-29.000.
  - Bradner, Patrick E.; Selkirk, Eric B.; and Norton, Peter R., 4,649,336, Cl. 324-61.00R.
  - Yuen, Peter S. L.; Campbell, Philip; Montin, John L.; and Ardron, Keith H., 4,645,635, Cl. 376-245.000.
- Canada Cup, Inc.: *See—*
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- Canada, Her Majesty the Queen in right of: *See—*
  - Cain, J. Bradley; and Farnworth, Brian, 4,705,717, Cl. 428-252.000.
  - Carbonneau, Raymond; and Dubois, Jacques, 4,665,795, Cl. 89-41.030.
  - Gladstone, David H.; Langlois, Raymond; and Robertson, William J., 4,646,615, Cl. 89-15.000.
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  - Saint, David H.; and Funk, John W., 4,682,034, Cl. 250-363.00R.
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  - Wright, David A.; and Webb, David B., 4,639,229, Cl. 441-42.000.
- Canada, Her Majesty the Queen in right of, as represented by the Minister of Energy and Natural Resources: *See—*
  - Kentfield, John A. C.; and MacGregor, Ian, 4,697,988, Cl. 416-237.000.
- Canada, Her Majesty the Queen in right of, as represented by the Minister of Energy, Mines and Resources: *See—*
  - Mikula, Randy J.; Mikhail, Magdy W.; Dean, D. Michael; and Savage, John D., 4,671,098, Cl. 73-19.000.
  - Poirier, Marc-Andre, 4,668,839, Cl. 585-825.000.
- Canada, Her Majesty the Queen in right of, as represented by the Minister of National Defence: *See—*
  - Chambers, Keith W.; and Waggoner, Clinton A., 4,651,091, Cl. 324-204.000.
  - Conway, Larry J.; and Pulsifer, Paul I., 4,679,168, Cl. 364-900.000.
  - Dominique, Harry P.; and Waggoner, Clinton A., 4,659,179, Cl. 350-320.000.
  - Harrison, Robert G.; and Kalivas, Grigorios A., 4,636,757, Cl. 333-218.000.
  - Ho, Jim Y. W., 4,710,887, Cl. 364-555.000.
  - MacDonald, Robert I.; Hara, Elmer H.; and Poirier, Arthur L., 4,686,533, Cl. 342-373.000.
  - MacPhee, Kenneth E.; and Barton, John L., 4,689,385, Cl. 528-58.000.
  - Murray, Douglas G., 4,659,572, Cl. 424-448.000.
  - Sewards, Alan, 4,694,297, Cl. 342-45.000.
  - Thomas, David M.; and Tubb, Leonard J., 4,697,185, Cl. 342-185.000.
  - Victor, William E., 4,676,419, Cl. 224-252.000.
  - Weickert, Chris A.; and Briosi, Gordon K., 4,641,581, Cl. 102-307.000.
- Canada, Her Majesty the Queen in right of the Province of Alberta, as represented by the Minister of Energy and Natural Resources: *See—*
  - Al-Saigh, Abbas, 4,642,223, Cl. 422-191.000.
  - Bach, Lars; and Stark, Eduard, 4,675,138, Cl. 264-294.000.
  - Kenfield, John A. C., 4,674,954, Cl. 416-14.000.
  - Schramm, Laurier L., 4,637,417, Cl. 137-4.000.
- Canada Wire and Cable Limited: *See—*
  - Byzio, Edward R.; and Stewart-Hay, Peter, 4,675,992, Cl. 29-728.000.
  - Eastwood, H. Keith; and Rivett, Paul W. J., 4,640,576, Cl. 350-96.230.
  - Vokey, David E., 4,647,720, Cl. 174-107.000.
- Canadas, Jean C., to Compagnie Industrielle de Mecanismes en abrege C.I.M. Sun visor for a motor vehicle. 4,685,723, 8-11-87, Cl. 296-97.00H.
- Canadian A.S.E. Limited: *See—*
  - Croft, George, 4,657,303, Cl. 297-362.000.
  - Croft, George; and Hiscox, Martyn, 4,707,010, Cl. 297-379.000.
- Canadian Bird Equipment Limited: *See—*
  - Innes, Robert S.; and Pagowski, Stefan, 4,660,256, Cl. 17-52.000.
  - McGuire, Bernie; Innes, Robert S.; and Pagowski, Stefan, 4,709,448, Cl. 17-11.000.
- Canadian Corporate Management Co., Ltd.: *See—*
  - Kemp, Charles W., 4,682,664, Cl. 177-16.000.
- Canadian Fracmaster Limited: *See—*
  - Bullen, Ronald S.; Mzik, Joseph; and Richard, Jean P., 4,701,270, Cl. 252-8.551.
- Canadian Fram Limited: *See—*
  - Anderson, Andrew G.; Bullen, David A.; and Ferguson, Robert G., 4,677,877, Cl. 74-785.000.
  - Anderson, Andrew G.; and Shoji, Leigh A., 4,708,229, Cl. 192-87.170.
  - Cook, John E., 4,662,604, Cl. 251-129.070.
  - Cook, John E.; and Everingham, Gary M., 4,666,081, Cl. 236-68.00R.
  - Cook, John E., 4,708,316, Cl. 251-39.000.
  - Czajkowski, Julian; and DeJong, Allan, 4,653,620, Cl. 192-17.00R.
  - Seung, Michael B.; Sivalingham, Ramalingam; Bullen, David A.; Anderson, Andrew G.; and McCharles, Donald A., 4,662,861, Cl. 474-86.000.
  - Sivalingham, Ramalingam, 4,667,537, Cl. 74-752.00E.
- Canadian Gas Research Institute: *See—*
  - Besik, Ferdinand, 4,708,000, Cl. 62-480.000.
- Canadian General Electric Company Limited: *See—*
  - Bath, Duncan T.; and Ferguson, James H., 4,633,574, Cl. 29-596.000.
  - Bath, Duncan T., 4,657,411, Cl. 384-99.000.
  - Bath, Duncan T., 4,699,524, Cl. 384-306.000.
  - Chadwick, Philip, 4,636,910, Cl. 361-103.000.
  - de Hertel Eastcott, Peter, 4,635,769, Cl. 192-0.034.
- Canadian Hunter Exploration Ltd.: *See—*
  - Wyman, Richard E., 4,679,630, Cl. 166-305.100.
- Canadian Industrial Innovation Centre/Waterloo: *See—*
  - Milgram, Paul, 4,698,668, Cl. 358-92.000.
- Canadian Instrumentation and Research Limited: *See—*
  - Failes, Michael, 4,688,882, Cl. 350-96.150.
  - Failes, Michael, 4,707,201, Cl. 156-64.000.
- Canadian Liquid Air Ltd./Air Liquide Canada Ltee: *See—*
  - Savard, Guy; and Lee, Robert, 4,657,587, Cl. 75-96.000.
- Canadian Marconi Company: *See—*
  - Allcock, David, 4,686,536, Cl. 343-700.0MS.
  - Blaha, Franz A., 4,688,883, Cl. 350-96.150.
  - Lait, Andrew J., 4,716,386, Cl. 332-26.000.

- Rauch, Sol, 4,635,030, Cl. 340-52.00F.
- Canadian Marconi Corporation: *See—*
  - Mastriani, Dennis; Jacoby, Donald; Weise, Jeanne; Linick, Bruce; Marinho, John; and DeSantis, Charles M., 4,696,053, Cl. 455-67.000.
- Canadian National Railway Company: *See—*
  - Arrey, Kelly J.; and Berrada, Samir, 4,644,871, Cl. 105-4.100.
  - Astley, George W., 4,687,258, Cl. 303-3.000.
- Canadian Occidental Petroleum Ltd.: *See—*
  - Al-Saigh, Abbas, 4,642,223, Cl. 422-191.000.
  - Schramm, Laurier L., 4,637,417, Cl. 137-4.000.
- Canadian Patents And Development Limited: *See—*
  - Masamura, Tatsuro, 4,715,048, Cl. 375-100.000.
- Canadian Patents & Development Corporation: *See—*
  - de Lasa, Hugo I.; Lee, Shiun-Liang; and Bergougnou, Maurice A., 4,659,218, Cl. 356-133.000.
- Canadian Patents and Development Limited: *See—*
  - Blackwell, Brian R., 4,668,342, Cl. 162-30.110.
  - Capes, Charles E.; Coleman, Richard D.; Thayer, William L.; and Puddington, Ira E., 4,648,962, Cl. 208-188.000.
  - Cielo, Paolo; and Vaudreuil, Ghislain, 4,659,937, Cl. 250-560.000.
  - Dayson, Clive, 4,646,924, Cl. 212-83.000.
  - Demopoulos, George P.; Pouskouleli, George; and Prud'Homme, Pierre J. A., 4,654,145, Cl. 210-638.000.
  - Dobrowolski, Jerzy A.; and Whitehead, Lorne A., 4,649,462, Cl. 362-2.000.
  - Dobrowolski, Jerzy A.; and Hara, Elmer H., 4,707,064, Cl. 350-96.190.
  - Elias, Lorne, 4,698,071, Cl. 55-28.000.
  - Forester, George V.; Mortimer, Alan J.; and Roy, Orest Z., 4,651,716, Cl. 128-1.00D.
  - Fowler, George A.; Hamilton, James M.; and Whiteway, William J., 4,678,132, Cl. 242-47.090.
  - Haard, Norman F.; and Patel, Thakor R., 4,690,826, Cl. 426-36.000.
  - Harmathy, Tibor Z., 4,635,729, Cl. 169-48.000.
  - Harrison, H. Page, 4,655,370, Cl. 222-57.000.
  - Herman, Alex W., 4,637,719, Cl. 356-72.000
  - Hodgson, Earl L., 4,708,006, Cl. 70-303.00R.
  - Howard, John; and Stirling, Marie, 4,713,185, Cl. 252-8.554
  - Inculet, Ion I., 4,666,089, Cl. 239-707.000.
  - Inculet, Ion I.; and Castle, George S. P., 4,673,132, Cl. 239-706.000.
  - Inculet, Ion I., 4,700,262, Cl. 361-233.000.
  - Jobin, Luc; and Coulombe, Charles, 4,642,936, Cl. 43-122.000.
  - Lawrence, Andre H.; and Elias, Lorne, 4,701,306, Cl. 422-101.000.
  - Milne, Robert, 4,700,197, Cl. 343-837.000.
  - Monchalin, Jean-Pierre, 4,659,224, Cl. 356-352.000.
  - Piche, Luc, 4,677,842, Cl. 73-32.00A.
  - Ringer, Thomas R., 4,687,163, Cl. 246-428.000.
  - Ringer, Thomas R.; and Bramwell, Byrne E., 4,695,017, Cl. 246-428.000.
  - Robey, Herbert L., 4,670,162, Cl. 210-761.000.
  - Taylor, Roderick S.; and Leopold, Kurt E., 4,679,203, Cl. 372-86.000.
  - Westfall, Alan P.; and Roe, Robert J., 4,702,676, Cl. 417-87.000.
  - Whitehead, Lorne A., 4,662,728, Cl. 350-573.000.
  - Zwarts, Cornelis M. G., 4,660,001, Cl. 331-115.000.
- Canadian Patents and Development Limited-Societe Canadienne des Brevets et d'Exploitation Limitee: *See—*
  - Blais, Francois, 4,658,368, Cl. 364-572.000.
  - Bouchard, Claude; and Boulanger, Pierre, 4,680,468, Cl. 250-310.000.
  - Brownstein, Sydney K., 4,675,416, Cl. 549-3.000.
  - Lam, Dennis K. W.; and MacDonald, Robert I., 4,699,449, Cl. 350-96.110.
  - MacDonald, R. I.; Lam, D. K. W.; and Jenkins, R. W., 4,696,059, Cl. 455-600.000.
  - Monchalin, Jean-Pierre, 4,633,715, Cl. 73-657.000.
  - Rioux, Marc, 4,645,347, Cl. 356-376.000.
  - Seo, Jongsoo; and Feher, Kamilo, 4,644,565, Cl. 375-60.000.
  - So, Eddy; and Moore, William J. M., 4,638,302, Cl. 340-347.0DA.
  - Zajic, James E.; and Gerson, Donald F., 4,640,767, Cl. 208-390.000.
- Canadian Patents and Development Ltd/Societe Canadienne des Brevets et d'Exploitation Limitee: *See—*
  - Secor, Robert J., 4,634,452, Cl. 44-66.000.
- Canadian Patents and Developments Limited: *See—*
  - Bell, Michael F.; Nicholson, Patrick S.; Sayer, Michael; and Yamashita, Kimihiro, 4,689,126, Cl. 204-130.000.
  - Nicholson, Patrick S.; and Yamashita, Kimihiro, 4,657,879, Cl. 501-152.000.
- Canadian Sun Systems Ltd.: *See—*
  - Dorbeck, Leo R., 4,708,124, Cl. 126-438.000.
- Canales, Roberto R.: *See—*
  - Alonso, Antonio C.; Alvarez-Icaza, Luis L.; and Canales, Roberto R., 4,660,711, Cl. 198-430.000.
- Canales-Santos, Enrique; Carro-de-la-Fuente, Guillermo; and Ruiz-Ontiveros, Saul R., to Vitro Tec Fideicomiso. Process for providing a thermically homogeneous flow of molten glass. 4,705,550, 11-10-87, Cl. 65-32.000.
- Canalizo, Francisco. Modular bathroom unit. 4,653,128, 3-31-87, Cl. 4-663.000.
- Canarctic Ventures Ltd.: *See—*
  - Ferguson, Barry W., 4,648,749, Cl. 405-205.000.
- Canard, Pierre: *See—*
  - Arlaud, Patrick; Bompis, Herve; and Canard, Pierre, 4,663,393, Cl. 525-165.000.
- Canaud, Alain: *See—*
  - Raisin, Jean-Pierre; and Canaud, Alain, 4,714,036, Cl. 112-147.00
- Canay, Muzaffer, to BBC Brown, Boveri & Company, Limited. Thre phase exciter for synchronous machines. 4,695,939, 9-22-87, C 363-39.000.
- Cancio, Leopoldo V.; Fitzsimmons, James N.; Mortellite, Robert M and Wu, Pai-Chuan, to Clopay Corporation. Method of making linea low density polyethylene film. 4,668,463, 5-26-87, Cl. 264-556.000.
- Candau, Francoise: *See—*
  - Durand, Jean-Pierre; Nicolas, Denise; Kohler, Norbert; Dawan Francois; and Candau, Francoise, 4,681,912, Cl. 524-827.000.
- Candea, Cornell, to Chrysler Motors Corporation. Lubricating syste for an engine balancing device. 4,677,948, 7-7-87, Cl. 123-192.00B.
- Candea, Cornell; and Stach, Robert G., to Chrysler Motors Corpora tion. Engine balancing device with a lubricant side discharg 4,703,724, 11-3-87, Cl. 123-192.00B.
- Candela Corporation: *See—*
  - Bees, George L., 4,647,830, Cl. 320-1.000.
- Candle, Richard D., to Goodyear Tire & Rubber Company, Th Method for making rubber articles. 4,680,071, 7-14-87, C 156-218.000.
- Candle, Richard D., to Goodyear Tire & Rubber Company, Th Folding belt system and said belt. 4,709,806, 12-1-87, Cl. 198-819.00
- Candler, Darrell E. Film storage system. 4,709,869, 12-1-87, Cl. 24 673.00R.
- Candlin, John P.; Kelland, John W.; and Law, Peter L., to Imperi Chemical Industries PLC. Drying process and product. 4,666,99 5-19-87, Cl. 525-268.000.
- Candor, James T. Electrostatic method and apparatus for treatin material. 4,654,979, 4-7-87, Cl. 34-1.000.
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- Candor, James T.: *See—*
  - Tassone, Joseph V.; and Candor, James T., 4,671,758, Cl. 42 174.80E.
  - Tassone, Joseph V.; and Candor, James T., 4,695,269, C 474-268.000
- Cane, Mario. Insulin administrating apparatus. 4,662,872, 5-5-87, C 604-151.000
- Cane, Michael R., to BICC Public Limited Company. Pressure regula ing devices. 4,693,540, 9-15-87, Cl. 439-198.000.
- Caneba, Gerard T. M.; and Soong, David S., to United States of Ame ica, Energy. Thermal casting process for the preparation of anis tropic membranes and the resultant membrane. 4,659,470, 4-21-87, C 210-500.210.
- Caneer, Clifford, Jr. Gas control system for a plasma arc weldi apparatus. 4,692,584, 9-8-87, Cl. 219-121.0PU.
- Canella, Vincent D.: *See—*
  - Yaniv, Zvi; Canella, Vincent D.; Chapelle, Walter E.; and Pry Roger W., 4,715,685, Cl. 350-332.000.
- Canepa, George R., to Intel Corporation. Apparatus for selecti alternate addressing mode and read-only memory. 4,685,084, 8-4-8 Cl. 365-189.000.
- Caner, Ali R.; and Spencer, Kenneth B., to American Can Compan Method of forming a long shelf-life food package. 4,685,273, 8-11-8 Cl. 53-440.000.
- Canestri, Giuseppe, to Bergvik Kemi AB. Polymeric diamino triazi dispersing agent and preparation thereof. 4,634,552, 1-6-87, C 252-356.000.
- Canevall, John. Procedure for permanently storing radioactive ma rial. 4,701,280, 10-20-87, Cl. 252-633.000.
- Canevari Timber Co., Inc.: *See—*
  - Durbin, James W., 4,679,139, Cl. 364-200.000.
- Canfield, Dennis R.: *See—*
  - Aslesen, Kerby S.; Bocek, John R.; Canfield, Dennis R.; and L Ke-Tien, 4,689,989, Cl. 73-61.10R.
- Canfield, George D.: *See—*
  - Johnson, Breck J.; and Canfield, George D., 4,641,750, C 206-387.000.
- Canfora, Philip H., to VBM Corporation. High pressure oxygen p duction system. 4,636,226, 1-13-87, Cl. 55-68.000.
- Cangelosi, Phillip J.: *See—*
  - Hong, Sung W.; and Cangelosi, Phillip J., 4,664,168, C 152-504.000.
- Cangialosi, Ignazio: *See—*
  - Winner, Kurt W.; and Cangialosi, Ignazio, 4,640,048, C 49-181.000.
- Cangro Industries, Inc.: *See—*
  - Bonanno, Mario; Zinonos, George; and Trantzas, Constan 4,637,407, Cl. 131-175.000.
- Canino, Lawrence S. Method and apparatus for measuring propertie thin materials using polarized light. 4,672,196, 6-9-87, Cl. 250-225.0
- Canivet, Patrick: *See—*
  - Madrange, Annie; and Canivet, Patrick, 4,710,314, Cl. 252-117.0
- Cann, Gordon L. Magnetoplasmadynamic processor, applicati thereof and methods. 4,682,564, 7-28-87, Cl. 118-620.000.
- Cann, Kevin J.; Miles, David L.; and Karol, Frederick J., to Un Carbide Corporation. Process for activation of titanium and va dium catalysts useful in ethylene polymerization. 4,670,526, 6-2- Cl. 526-125.000.
- Cannan, Terrance: *See—*
  - Chirchirillo, Michael T.; and Cannan, Terrance, 4,693,889, 424-83.000.
- Cannarsa, Robert C. Sta-put wallboard joiner. 4,641,474, 2-10-87, 52-514.000.

Cannata, Joseph M. Positive interconnect system. 4,683,623, 8-4-87, Cl. 126-123.000.
Cannata, Vincenzo; and Tamerlani, Giancarlo, to Alfa Chemicals Italiana S.p.A. Process for the optical resolution of racemic mixtures of α-naphthyl-propionic acids. 4,661,628, 4-28-87, Cl. 562-401.000.
Cannell, David W.: *See—*
  Mathews, Roger A.; and Cannell, David W., 4,635,654, Cl. 132-7.000.
Cannella, Vincent D., to Energy Conversion Devices, Inc. Displays having pixels with two portions and capacitors. 4,639,087, 1-27-87, Cl. 350-332.000.
Cannella, Vincent D.; Yaniv, Zvi; and Johnson, Robert R., to Energy Conversion Devices, Inc. Contact-type document scanner and method. 4,660,095, 4-21-87, Cl. 358-294.000.
Cannella, Vincent D.; Yaniv, Zvi; and Johnson, Robert R., to Energy Conversion Devices, Inc. X-ray image scanner and method. 4,672,454, 6-9-87, Cl. 358-213.110.
Cannella, Vincent D.; Yaniv, Zvi; and Johnson, Robert R., to Energy Conversion Devices, Inc. Contact-type document scanner including protective coating. 4,691,243, 9-1-87, Cl. 358-294.000.
Cannella, Vincent D.; Yaniv, Zvi; and Johnson, Robert R., to Energy Conversion Devices, Inc. Contact-type document scanner including static shield. 4,691,244, 9-1-87, Cl. 358-294.000.
Cannella, Vincent D.: *See—*
  Catchpole, Clive; Yaniv, Zvi; Cannella, Vincent D.; Keem, John; and Swartz, Louis D., 4,675,739, Cl. 358-213.110.
  Izu, Masatsugu; Cannella, Vincent D.; and Ovshinsky, Stanford R., 4,677,738, Cl. 29-572.000.
  Ovshinsky, Stanford R.; Johnson, Robert R.; Cannella, Vincent D.; and Yaniv, Zvi, 4,646,266, Cl. 365-105.000.
  Yaniv, Zvi; Cannella, Vincent D.; Hansell, Gregory L.; and Johnson, Robert R., 4,666,252, Cl. 350-333.000.
Cannelongo, Joseph F., to American Cyanamid Company. Device and method for controlling insects. 4,674,445, 6-23-87, Cl. 119-156.000.
Canniff, Ronald J.; and Derrenberger, Mike A., to AT&T Bell Laboratories. Timing signal distribution arrangement. 4,644,568, 2-17-87, Cl. 75-108.000.
Canning, Peter C.: *See—*
  Roth, James A.; Canning, Peter C.; and Chiang, Yu-Wei, 4,701,323, Cl. 424-88.000.
Cannistra, John S.: *See—*
  Luerken, Adolf; Cannistra, John S.; Zimmerer, John L.; and Pilatowicz, Edward J., 4,644,606, Cl. 15-330.000.
Cannon, Albert W., to Focalpoint Armoury Limited. Improvements in sights for firearms and other articles. 4,695,159, 9-22-87, Cl. 56-247.000.
Cannon, David C., to Sonoco Products Company. Bulk carbonated beverage container. 4,690,299, 9-1-87, Cl. 220-402.000.
Cannon Instrument Company: *See—*
  Manning, Robert E.; and Lloyd, Wallis A., 4,658,636, Cl. 73-55.000.
Cannon, Jeffrey L., to Coherent, Inc. Miniature cryogenic pump method and apparatus for ion lasers. 4,674,092, 6-16-87, Cl. 72-33.000.
Cannon, Jesse D. Pre-start engine lubrication system. 4,703,727, 11-3-87, Cl. 123-196.00S.
Cannon, Lamar J. Penile erection aid. 4,653,484, 3-31-87, Cl. 128-79.000.
Cannon Muskegon Corporation: *See—*
  Harris, Kenneth; and Erickson, Gary L., 4,643,782, Cl. 148-404.000.
Cannon, Patrick J.: *See—*
  Winker, James A.; Cannon, Patrick J.; West, Mark L.; and Andrews, Richard A., 4,651,956, Cl. 244-99.000.
Cannon, Robert B., to Robert B. Cannon, Inc. Take-apart fitting for multi-tube heat exchanger. 4,679,622, 7-14-87, Cl. 165-154.000.
Cannon, Stuart R.; Brazenor, William J.; Kneen, Peter W.; and Mullen, John L., to S. & M. Cannon Pty. Ltd. Canopy. 4,677,999, 7-7-87, Cl. 35-117.000.
Cannon, Thomas C., Jr.; Carlisle, Arthur W.; Darden, Bruce V.; and Myers, Clyde J., to AT&T Bell Laboratories. Optical fiber connector and article comprising same. 4,634,214, 1-6-87, Cl. 350-96.200.
Cannon, Thomas C., Jr.: *See—*
  Anderson, Jerry M.; Cannon, Thomas C., Jr.; Darden, Bruce V.; and Smith, Donald T., 4,684,195, Cl. 439-404.000.
Cannon, Wayne C.; and Neering, Michael J., to Hewlett-Packard Company. Vector network analyzer with integral processor. 4,644,486, 2-17-87, Cl. 364-570.000.
Cannon, Wayne C.: *See—*
  Barr, John T., IV; Neering, Michael J.; Fullmer, Douglas E.; Oblad, Roger P.; Cannon, Wayne C.; and Elmore, Glenn E., 4,641,086, Cl. 324-77.00R.
  Sharrit, David D.; Neering, Michael J.; Donecker, S. Bruce; Roos, Mark D.; Cannon, Wayne C.; and Barr, John T., IV, 4,661,767, Cl. 324-57.00R.
Cannondale Corporation: *See—*
  Irwin, David; La Plante, Mark T.; and Graham, David R., 4,666,071, Cl. 224-39.000.
  La Plante, Mark T., 4,671,438, Cl. 224-32.00A.
  Patterson, Thomas C., 4,684,281, Cl. 403-197.000.
  Schlanger, Raphael, 4,688,749, Cl. 248-200.000.
Canny, Jean-Paul L.: *See—*
  Bernard, Alain M.; Canny, Jean-Paul L.; and Touboul, Pierre L., 4,688,141, Cl. 361-233.000.
Cano, Francis R.: *See—*
  Ritchey, Mary B.; Cano, Francis R.; O'Hara, Gerald J.; English, James D.; and Lin, Wenlii, 4,686,102, Cl. 424-92.000.
Cano International, N.V.: *See—*
  Slater, Jack, 4,641,468, Cl. 52-309.400.
Cano, Richard A. Exercise machine. 4,709,919, 12-1-87, Cl. 272-117.000.
Canon Denshi Kabushiki Kaisha: *See—*
  Ogawa, Tetsu; and Kato, Masahiro, 4,670,802, Cl. 360-97.000.
  Ogawa, Tetsu, 4,694,421, Cl. 364-900.000.
  Onohara, Akira; and Wakazawa, Toru, 4,647,998, Cl. 360-105.000.
  Saito, Makoto, 4,661,872, Cl. 360-104.000.
  Toyoda, Yasuhiro, 4,671,637, Cl. 354-234.100.
  Yokota, Yuji; and Osabe, Akira, 4,641,212, Cl. 360-99.000.
Canon Kabushiki Kaisha: *See—*
  Abe, Shunichi, 4,700,236, Cl. 358-284.000.
  Adachi, Hiroyuki; and Saito, Takashi, 4,639,123, Cl. 355-15.000.
  Akashi, Akira; and Suzuki, Kenji, 4,676,623, Cl. 354-408.000.
  Akashi, Akira; Ohmura, Hiroshi; Ishizaki, Akira; Ohtaka, Keiji; and Suda, Yasuo, 4,716,282, Cl. 250-201.000.
  Akio, Ohno, 4,707,108, Cl. 355-4.000.
  Akiya, Takashi; Toganoh, Shigeo; and Arai, Ryuichi, 4,636,410, Cl. 427-261.000.
  Alyfuku, Kiyoshi, 4,636,055, Cl. 354-465.000.
  Alyfuku, Kiyoshi; and Tamura, Shuichi, 4,664,495, Cl. 354-430.000.
  Alyfuku, Kiyoshi, 4,676,625, Cl. 354-418.000.
  Alyfuku, Kiyoshi, 4,716,433, Cl. 354-468.000.
  Amikura, Takashi; and Fujiwara, Akihiro, 4,673,806, Cl. 250-201.000.
  Ando, Yujiro; and Kaneko, Shuzo, 4,692,779, Cl. 346-153.100.
  Aoi, Shigeru, 4,641,157, Cl. 346-160.000.
  Aoi, Shigeru, 4,647,982, Cl. 358-296.000.
  Aoi, Shigeru, 4,695,992, Cl. 369-46.000.
  Aoi, Shigeru, 4,700,335, Cl. 369-44.000.
  Ara, Yoji, 4,661,002, Cl. 400-124.000.
  Ara, Yoji, 4,697,939, Cl. 400-124.000.
  Arai, Hitoshi, 4,709,147, Cl. 250-234.000.
  Arai, Ryuichi; and Toganoh, Shigeo, 4,636,409, Cl. 427-256.000.
  Arai, Ryuichi; Sakaki, Mamoru; and Matsui, Shinya, 4,664,952, Cl. 427-256.000.
  Arai, Ryuichi; and Sakaki, Mamoru, 4,686,118, Cl. 427-261.000.
  Arai, Takashi, 4,715,802, Cl. 425-130.000.
  Arakawa, Junichi, 4,642,658, Cl. 346-76.0PH.
  Arakawa, Kazuhiko; Tokura, Go; Fujibayashi, Kazuo; Kiuchi, Masayoshi; and Harada, Yoshihito, 4,692,008, Cl. 354-217.000.
  Arakawa, Kazuhiko; Harada, Yoshihito; Kiuchi, Masayoshi; Tokura, Go; and Fujibayashi, Kazuo, 4,707,097, Cl. 354-217.000.
  Arakawa, Kazuhiko; Terashima, Jun; and Tokura, Go, 4,711,548, Cl. 354-485.000.
  Arakawa, Kazuhiro, 4,646,062, Cl. 340-365.00R.
  Arimoto, Shinobu, 4,686,577, Cl. 358-256.000.
  Asakura, Osamu; Nozaki, Mineo; Nagashima, Masasumi; and Uchikata, Yoshio, 4,636,810, Cl. 346-76.0PH.
  Asakura, Osamu, 4,642,657, Cl. 346-76.0PH.
  Asakura, Osamu; Nozaki, Mineo; Nagashima, Masasumi; and Uchikata, Yoshio, 4,669,897, Cl. 400-121.000.
  Asakura, Osamu; Nozaki, Mineo; Uchikata, Yoshio; and Nagashima, Masasumi, 4,699,534, Cl. 400-568.000.
  Asakura, Osamu, 4,708,504, Cl. 400-637.000.
  Ashinuma, Takaaki, 4,667,246, Cl. 358-264.000.
  Ayata, Naoki, 4,634,876, Cl. 250-548.000.
  Ayata, Naoki, 4,641,257, Cl. 364-559.000.
  Ayata, Naoki; and Yamada, Yasuyoshi, 4,655,599, Cl. 356-401.000.
  Ayata, Naoki; and Matsumura, Takashi, 4,663,534, Cl. 250-548.000.
  Ayata, Naoki; Saito, Seiji; Suzuki, Hidetoshi; Ozawa, Kunitaka; and Koumura, Noboru, 4,707,713, Cl. 346-140.00R.
  Ayata, Naoki, 4,713,784, Cl. 364-559.000.
  Baba, Takeshi, 4,647,159, Cl. 350-413.000.
  Baba, Takeshi; and Hattori, Jun, 4,674,843, Cl. 350-413.000.
  Baba, Takeshi; and Suda, Shigeyuki, 4,678,899, Cl. 230-201.000.
  Baba, Takeshi; and Suda, Shigeyuki, 4,706,124, Cl. 358-227.000.
  Baba, Takeshi; Imataki, Hiroyuki; Usui, Masayuki; Serizawa, Takashi; and Nose, Hiroyasu, 4,712,882, Cl. 350-413.000.
  Ban, Mikichi, 4,711,576, Cl. 356-353.000.
  Chito, Yasuo; and Ogawa, Masahiko, 4,695,778, Cl. 318-314.000.
  Dei, Katsuhito, 4,695,849, Cl. 346-76.00L.
  Ebata, Tokihide; and Onoda, Shigeyoshi, 4,653,743, Cl. 271-124.000.
  Ebinuma, Ryuichi; Hattori, Yoshifumi; and Ichihashi, Hiroo, 4,680,696, Cl. 346-75.000.
  Edakubo, Hiroo; Takayama, Nobutoshi; and Takimoto, Hiroyuki, 4,636,882, Cl. 360-77.000.
  Edakubo, Hiroo, 4,679,099, Cl. 360-10.200.
  Edakubo, Hiroo; and Nagasawa, Kenichi, 4,688,102, Cl. 358-310.000.
  Edakubo, Hiroo, 4,714,970, Cl. 360-73.000.
  Egami, Hidemi; Kan, Fumitaka; Hosoi, Atsushi; Tajima, Hatsuo; Nakamura, Shunji; and Nakahata, Kimio, 4,660,958, Cl. 355-3.0DD.
  Eguchi, Ken; Kawada, Haruki; and Nishimura, Yukuo, 4,672,265, Cl. 313-504.000.
  Eguchi, Ken; Matsuda, Hiroshi; Haruta, Masahiro; Nishimura, Yukuo; Hirai, Yutaka; and Nakagiri, Takashi, 4,683,147, Cl. 427-54.100.
  Eguchi, Ken; Nishimura, Yukuo; Haruta, Masahiro; Matsuda, Hiroshi; Hirai, Yutaka; and Nakagiri, Takashi, 4,705,403, Cl. 356-319.000.
  Eguchi, Masaharu; and Kiuchi, Masayoshi, 4,697,900, Cl. 354-215.000.
  Eguchi, Masaharu; Tosaka, Yoichi; Ohnuki, Ichiro; Aihara, Yoshihiko; and Ishizaki, Akira, 4,714,332, Cl. 354-21.000.
  Ejima, Yoshinori, 4,677,287, Cl. 250-205.000.

Endo, Kiyonobu, 4,642,703, Cl. 358-342.000.
Endo, Kiyonobu, 4,654,839, Cl. 369-46.000.
Fuchi, Ikuo; Arai, Takashi; and Amaya, Yoshio, 4,660,953, Cl. 354-286.000.
Fujibayashi, Kazuo; Tsunekawa, Tokuichi; and Ohmura, Hiroshi, 4,697,905, Cl. 354-406.000.
Fujii, Haruo; and Ando, Yujiro, 4,658,275, Cl. 346-154.000.
Fujii, Haruo; Inaba, Yutaka; and Ando, Yujiro, 4,682,880, Cl. 355-4.000.
Fujimura, Naoto; Sakai, Kiyoshi; and Okunuki, Masami, 4,663,259, Cl. 430-58.000.
Fujino, Masahisa, 4,643,553, Cl. 354-234.100.
Fujino, Masahisa; Fukahori, Hidehiko; and Satoh, Toshihiko, 4,681,417, Cl. 354-234.100.
Fujiwara, Akihiro; and Tanaka, Kazuo, 4,643,556, Cl. 354-406.000.
Fujiwara, Ryoji; and Shimizu, Isamu, 4,670,334, Cl. 428-336.000.
Fujiyama, Yasutomo, 4,633,812, Cl. 118-723.000.
Fujiyama, Yasutomo, 4,646,681, Cl. 118-730.000.
Fujiyama, Yasutomo, 4,648,348, Cl. 118-723.000.
Fujiyama, Yasutomo, 4,709,656, Cl. 118-723.000.
Fukaya, Masaki; Komatsu, Toshiyuki; Shoji, Tatsumi; Kamio, Masaru; and Sekimura, Nobuyuki, 4,700,080, Cl. 250-578.000.
Fukita, Susumu, 4,645,321, Cl. 354-82.000.
Fukuda, Tsuyoshi; Suzuki, Masayuki; and Kiuchi, Masayoshi, 4,673,278, Cl. 354-479.000.
Fukumoto, Hiroshi; Tanaka, Katsuhiko; and Imai, Eiichi, 4,657,838, Cl. 430-110.000.
Fukumoto, Hiroshi; Tanaka, Katsuhiko; and Kawagishi, Yoji, 4,673,631, Cl. 430-110.000.
Fukumoto, Hiroshi; Ohnishi, Toshikazu; and Arahara, Kohzoh, 4,702,988, Cl. 430-137.000.
Furushima, Teruhiko; Masaki, Yuichi; Fukaya, Masaki; and Sekimura, Nobuyuki, 4,650,984, Cl. 250-211.00R.
Fushimoto, Hideo, 4,652,976, Cl. 361-413.000.
Fushimoto, Hideo, 4,661,889, Cl. 361-424.000.
Fuziwara, Yutaka; and Yamamoto, Hiroshi, 4,639,083, Cl. 350-255.000.
Goshima, Takeshi; Nozaki, Mineo; and Fukui, Hiroshi, 4,675,692, Cl. 346-1.100.
Goto, Masahiro, 4,648,702, Cl. 355-3.0DD.
Haganuma, Tomoyuki; and Kaneko, Yoji, 4,688,100, Cl. 358-261.000.
Hakamada, Isao; and Matsuoka, Kazuhiko, 4,667,209, Cl. 346-160.000.
Hamazaki, Bunei; and Ayata, Naoki, 4,688,088, Cl. 358-101.000.
Hanagata, Takayoshi, 4,693,618, Cl. 400-120.000.
Hanagata, Takayoshi, 4,709,249, Cl. 346-140.00R.
Hanamori, Ryoichi; and Yamamoto, Hiroshi, 4,682,854, Cl. 350-255.000.
Hanamori, Ryoichi; Nakashima, Shigeo; and Yamamoto, Hiroshi, 4,693,580, Cl. 354-271.100.
Hara, Toshitami; Sato, Yasushi; Takatori, Yasushi; and Shirato, Yoshiaki, 4,707,705, Cl. 346-75.000.
Harada, Yoshihito; Kiuchi, Masayoshi; Kobayashi, Ryuichi; and Kawamura, Masaharu, 4,702,585, Cl. 354-410.000.
Haraguchi, Shosuke, 4,712,898, Cl. 354-288.000.
Harigaya, Isao; and Kozuki, Susumu, 4,689,699, Cl. 360-74.400.
Harigaya, Isao; and Takahashi, Kouji, 4,696,440, Cl. 242-191.000.
Haruta, Masahiro; Kobayashi, Masatsune; and Ohta, Tokuya, 4,655,834, Cl. 106-20.000.
Haruta, Masahiro; Kobayashi, Masatsune; and Ohta, Tokuya, 4,655,835, Cl. 106-20.000.
Haruta, Masahiro, 4,677,445, Cl. 346-1.100.
Haruta, Masahiro; Kuwae, Yoko; Yuasa, Satoshi; and Miyazaki, Toshihiko, 4,711,830, Cl. 430-52.000.
Hasegawa, Shizuo; and Hayashi, Kimiyoshi, 4,691,114, Cl. 250-578.000.
Hashimoto, Seiji, 4,652,927, Cl. 358-213.000.
Hashimoto, Seiji; and Sakai, Shinji, 4,660,075, Cl. 358-29.000.
Hashimoto, Seiji; and Okino, Tadashi, 4,689,686, Cl. 358-213.260.
Hashimoto, Seiji; Kinoshita, Takao; and Tanaka, Nobuyoshi, 4,712,135, Cl. 358-213.220.
Hasumi, Hiroyuki, 4,692,777, Cl. 346-140.00R.
Hatanaka, Katsunori; Kuroda, Yasuo; and Uzawa, Shunichi, 4,634,886, Cl. 250-578.000.
Hattori, Jun; and Suda, Shigeyuki, 4,696,552, Cl. 350-413.000.
Hayashi, Kimiyoshi, 4,679,073, Cl. 358-80.000.
Hayashi, Kimiyoshi; Ohno, Akio; Hirooka, Kazuhiko; and Murayama, Yasushi, 4,697,915, Cl. 355-14.00D.
Higomura, Makoto, 4,710,865, Cl. 364-170.000.
Hirabayashi, Hiromitsu; and Sakurai, Masaaki, 4,640,600, Cl. 355-3.0FU.
Hirai, Yutaka; Matsuda, Hiroshi; Eguchi, Ken; Haruta, Masahiro; Nishimura, Yukuo; and Nakagiri, Takashi, 4,683,146, Cl. 427-54.100.
Hirai, Yutaka; Haruta, Masahiro; Nishimura, Yukuo; Matsuda, Hiroshi; and Nakagiri, Takashi, 4,695,717, Cl. 250-213.00R.
Hiramatsu, Akira; and Mukohjima, Hitoshi, 4,645,964, Cl. 310-323.000.
Hiramatsu, Akira; Mukohjima, Hitoshi; Kaneda, Naoya; Okuno, Takuo; Seki, Hiroyuki; Tsukimoto, Takayuki; Izukawa, Kazuhiro; and Okumura, Ichiro, 4,692,651, Cl. 310-323.000.
Hiramatsu, Soichi, 4,668,961, Cl. 346-76.0PH.
Hiramatsu, Soichi, 4,701,593, Cl. 219-216.000.
Hirano, Hirofumi; Nakamura, Masaaki; Hasumi, Hitoshi; Inoue, Shoichi; and Furukawa, Akiteru, 4,707,159, Cl. 400-639.100.
Hirata, Osamu, 4,688,189, Cl. 364-900.000.
Hiro, Masaaki; and Hasegawa, Tetsuo, 4,654,288, Cl. 430-126.000.
Hirooka, Masaaki; Ishihara, Shunichi; Hanna, Junichi; and Shimizu, Isamu, 4,657,777, Cl. 427-39.000.
Hirosawa, Toshiaki; Akiyama, Yoshie; Ebisawa, Isao; Hattori, Yoshifumi; and Abe, Tsutomu, 4,684,962, Cl. 346-140.00R.
Hirose, Ryusho, 4,685,777, Cl. 350-505.000.
Hirose, Ryusho; and Suzuki, Akiyoshi, 4,688,904, Cl. 350-443.000.
Hirose, Ryusho, 4,701,035, Cl. 350-505.000.
Honda, Haruhisa; Tsuchiya, Hiroaki; Setani, Michitaka; and Tokuhara, Mitsuhiro, 4,641,944, Cl. 355-1.000.
Honda, Haruhisa, 4,699,494, Cl. 355-3.00R.
Honda, Haruhisa; and Saito, Takashi, 4,709,273, Cl. 358-256.000.
Honjo, Takeshi; Takahata, Naomi; Tanaka, Mamoru; and Umeda, Yoshihito, 4,667,951, Cl. 271-259.000.
Honma, Toshio, 4,640,603, Cl. 355-3.00R.
Hosaka, Akihito; and Kinoshita, Koichi, 4,653,427, Cl. 118-658.000.
Hosaka, Masao; and Saito, Takashi, 4,711,560, Cl. 355-14.00C.
Hoshika, Norihisa; Adachi, Hiroyuki; and Nakahata, Kimio, 4,699,499, Cl. 355-3.0CH.
Hosoi, Atsushi; Kan, Fumitaka; Egami, Hidemi; Tajima, Hatsuo Nakamura, Shunji; and Nakahata, Kimio, 4,637,706, Cl. 355 3.0DD.
Hosono, Nagao; Nagase, Yukio; Takeuchi, Tatsuo; Egami, Hidem and Satomura, Hiroshi, 4,709,298, Cl. 361-213.000.
Hosoya, Jun, 4,682,861, Cl. 350-432.000.
Ichihashi, Hiroo; Ozawa, Masakazu; Ebinuma, Ryuichi; and Saito, Atsushi, 4,695,855, Cl. 346-145.000.
Ichihashi, Hiroo; Ozawa, Masakazu; Saito, Atsushi; and Ebinuma, Ryuichi, 4,704,620, Cl. 346-140.00R.
Iizuka, Kiyoshi, 4,711,547, Cl. 354-471.000.
Iizuka, Toshimi; and Kamata, Shigeru, 4,690,505, Cl. 350-252.000.
Iizuka, Toshimi; and Kamata, Shigeru, 4,707,083, Cl. 350-429.000.
Ikawa, Kazuo; and Watanabe, Isao, 4,672,273, Cl. 315-241.00P.
Ikeda, Kunihiko, 4,701,771, Cl. 346-140.00R.
Ikeda, Masami; Aoki, Seiichi; Saito, Akio; Inamoto, Tadayoshi; and Yokoi, Katsuyuki, 4,646,110, Cl. 346-140.00R.
Ikeda, Masami, 4,663,640, Cl. 346-140.00R.
Ikeda, Masami; Shibata, Makoto; Takahashi, Hiroto; and Matsuda, Hiroto, 4,686,544, Cl. 346-140.00R.
Ikeda, Masami; Matsuda, Hiroto; Takahashi, Hiroto; and Shoji, Tatsumi, 4,694,306, Cl. 346-140.00R.
Ikeda, Takeshi; Imai, Eiichi; Fukumoto, Hiroshi; Tanaka, Ka suhiko; Suematsu, Koshi; Urawa, Motoo; and Takenouch Masanori, 4,663,263, Cl. 430-110.000.
Ikeda, Toshio, 4,701,908, Cl. 370-85.000.
Ikeda, Yoshinori, 4,642,681, Cl. 358-79.000.
Ikeda, Yoshinori, 4,667,227, Cl. 358-75.000.
Ikeda, Yoshinori; and Aoki, Takao, 4,680,646, Cl. 358-298.000.
Ikeda, Yoshinori, 4,682,190, Cl. 346-154.000.
Ikemori, Keiji, 4,647,160, Cl. 350-426.000.
Ikemori, Keiji; and Kato, Masatake, 4,684,223, Cl. 350-427.000.
Ikemori, Keiji; Tanaka, Tsunefumi; and Kato, Masatake, 4,687,30 Cl. 350-427.000.
Ikemori, Keiji, 4,705,363, Cl. 350-427.000.
Ikemori, Keiji; and Koyama, Takeshi, 4,707,103, Cl. 354-403.000.
Imai, Eiichi; Uchiyama, Masaki; Urawa, Motoo; and Yamamoto, Atsuko, 4,666,315, Cl. 430-126.000.
Imai, Eiichi; Sakashita, Kiichiro; Takagi, Seiichi; and Kukimoto, Tsutomu, 4,702,986, Cl. 430-120.000.
Ina, Hideki; and Shinkai, Hiroshi, 4,669,883, Cl. 356-401.000.
Ina, Hideki, 4,669,885, Cl. 356-443.000.
Ina, Kenzoh; Otani, Masatoshi; and Mishima, Kenichi, 4,694,35 Cl. 358-257.000.
Inaba, Yutaka; and Ando, Yujiro, 4,683,482, Cl. 346-159.000.
Inaba, Yutaka; and Ando, Yujiro, 4,691,213, Cl. 346-159.000.
Inaba, Yutaka; Satomura, Hiroshi; Nagase, Yukio; Takeuchi, Ta suo; Egami, Hidemi; and Hosaka, Akihito, 4,697,196, C 346-159.000.
Inamoto, Tadayoshi; Noguchi, Hiromichi; and Munakata, Megum 4,688,052, Cl. 346-140.00R.
Inamoto, Tadayoshi; Noguchi, Hiromichi; and Munakata, Megum 4,688,054, Cl. 346-140.00R.
Inamoto, Tadayoshi, 4,698,645, Cl. 346-140.00R.
Inoue, Eiichi; Shimizu, Isamu; and Komatsu, Toshiyuki, 4,673,62 Cl. 430-58.000.
Inoue, Eiichi; Shimizu, Isamu; and Komatsu, Toshiyuki, 4,701,3 Cl. 430-57.000.
Inoue, Hiroshi, 4,643,531, Cl. 350-341.000.
Inoue, Hiroshi, 4,707,079, Cl. 350-334.000.
Inoue, Yutaka; Kurata, Mitsuru; Kasama, Nobuhiro; Hosak Masao; Yagasaki, Toshiaki; Tanioka, Hiroshi; and Yamakaw Tadashi, 4,714,940, Cl. 355-3.00R.
Inuyama, Toshihiko, 4,647,946, Cl. 346-108.000.
Inuzuka, Tsuneki; Kawatsura, Yoshihiro; and Ishida, Masa 4,707,111, Cl. 355-8.000.
Isaka, Kazuo, 4,639,119, Cl. 355-3.0DD.
Isaka, Kazuo, 4,686,661, Cl. 369-13.000.
Ishihara, Shunichi, 4,674,434, Cl. 118-50.100.
Ishihara, Shunichi; Saito, Keishi; Oda, Shunri; and Shimizu, Isam 4,689,093, Cl. 437-5.000.
Ishihara, Shunichi; Saito, Keishi; Oda, Shunri; and Shimizu, Isam 4,702,934, Cl. 427-39.000.
Ishihara, Shunichi; Ohno, Shigeru; Kanai, Masahiro; Oda, Shunr and Shimizu, Isamu, 4,716,048, Cl. 427-39.000.

ikawa, Tadashi; Matsuo, Kazuhiro; and Hoshi, Akimitsu, 4,709,915, Cl. 271-288.000.
ikawa, Yasuyuki; and Matsumura, Isao, 4,678,297, Cl. 351-208.000.
iwatari, Takahiko; Kishi, Hiroyoshi; Kawade, Hisaaki; Matsuhima, Masaaki; Sawamura, Mitsuharu; and Honguu, Kazuoki, 4,658,388, Cl. 369-13.000.
izaki, Akira; Akashi, Akira; Ohtaka, Keiji; Suda, Yasuo; and Hiramatsu, Akira, 4,643,557, Cl. 354-406.000.
izaki, Akira; and Arakawa, Kazuhiko, 4,701,626, Cl. 50-578.000.
izuka, Keiji, 4,714,892, Cl. 329-50.000.
hata, Junji; Yamamoto, Hironori; and Matsushita, Koichi, 708,465, Cl. 355-53.000.
hata, Junji; and Miyazaki, Makoto, 4,708,466, Cl. 355-53.000.
ashi, Satoshi; Kawakami, Soichiro; Terada, Katsunori; Suzuki, Hideyuki; Furushima, Teruhiko; and Fukaya, Masaki, 4,705,598, Cl. 156-643.000.
Hiroshi; and Kimura, Tomohiro, 4,658,756, Cl. 118-652.000.
Michio; Shinohara, Yukimasa; and Imai, Nobuhiro, 4,687,283, Cl. 350-6.800.
Yoshio, 4,639,749, Cl. 346-153.100.
Yoshio; and Nishikawa, Masaaki, 4,677,495, Cl. 358-285.000.
Yuji, 4,666,268, Cl. 351-206.000.
Yuji, 4,690,561, Cl. 356-339.000.
Yuji, 4,715,708, Cl. 356-72.000.
, Susumu, 4,635,077, Cl. 346-140.00R.
, Yuji; and Takahashi, Junichi, 4,679,919, Cl. 351-206.000.
shita, Tomonori; Shinoda, Nobuhiko; and Yamada, Akira, 699,492, Cl. 354-289.100.
ta, Kazuo; and Koike, Shoji, 4,702,742, Cl. 8-495.000.
awa, Kazuhiro; and Okumura, Ichiro, 4,657,360, Cl. 0-620.000.
awa, Kazuhiro, 4,658,172, Cl. 310-316.000.
awa, Kazuhiro; Tsukimoto, Takayuki; and Okumura, Ichiro, 678,956, Cl. 310-323.000.
awa, Kazuhiro; and Ishizuka, Kho, 4,692,649, Cl. 310-316.000.
okura, Susumu; Sawayama, Ippei; Kato, Tomoaki; and kamoto, Tadashi, 4,709,221, Cl. 336-200.000.
, Toshio, 4,682,211, Cl. 358-41.000.
ata, Shigeru; and Iizuka, Toshimi, 4,687,297, Cl. 350-252.000.
ata, Shigeru; and Iizuka, Toshimi, 4,690,514, Cl. 350-429.000.
uo, Masaru; Iijima, Shigeharu; Yoshihara, Satoshi; and Ogura, asutsugu, 4,661,191, Cl. 156-275.500.
iya, Osamu; Fujiyama, Yasutomo; Ogawa, Kyosuke; and urokawa, Takashi, 4,637,342, Cl. 118-719.000.
iya, Osamu; Nishida, Keijiro; Fujiyama, Yasutomo; and gawa, Kyosuke, 4,666,734, Cl. 427-39.000.
Fumitaka; Hayakawa, Naoji; Majima, Toshiaki; Takenouchi, asanori; Yamamoto, Mitsuru; Suzuki, Hidetoshi; and Nomura, hiro, 4,675,699, Cl. 346-76.00R.
i, Masahiro, 4,661,427, Cl. 430-57.000.
azawa, Manabu, 4,653,822, Cl. 339-17.00E.
be, Junichiro; Katagiri, Kazuharu; and Kaneko, Syuzo, 655,561, Cl. 350-350.00S.
be, Junichiro; Okada, Shinjiro; Takahashi, Tohru; and Ando, jiro, 4,682,858, Cl. 350-334.000.
be, Junichiro; and Okada, Shinjiro, 4,709,994, Cl. 350-350.00S.
be, Junichiro; and Yoshinaga, Kazuo, 4,712,872, Cl. 0-333.000.
be, Junichiro; and Okada, Shinjiro, 4,712,873, Cl. 350-337.000.
da, Shigeto, 4,712,206, Cl. 369-46.000.
ko, Norio; and Niibe, Masahito, 4,697,222, Cl. 361-321.000.
emitsu, Shinji; and Nitanda, Hiroshi, 4,636,065, Cl. 355-75.000.
emitsu, Shinji; and Toriumi, Mototada, 4,676,498, Cl. -251.000.
emura, Shoji, 4,707,649, Cl. 318-685.000.
o, Hideo; Yamashita, Shinichi; Enari, Masahiko; Kuno, Mitoshi; and Mizutome, Atsushi, 4,714,921, Cl. 340-784.000.
, Ichiro, 4,667,109, Cl. 250-461.100.
a, Takao, 4,667,110, Cl. 250-492.200.
imura, Makoto; and Kimura, Tetsuo, 4,699,366, Cl. 271-4.000.
ya, Yukio, 4,662,738, Cl. 355-14.00R.
ya, Yukio, 4,697,910, Cl. 355-3.00R.
giri, Kazuhara; Oguchi, Yoshihiro; Ohtake, Takeshi; Arao, ozo; Kitahara, Makoto; and Takasu, Yoshio, 4,673,630, Cl. -72.000.
giri, Kazuharu; Yoshinaga, Kazuo; Okada, Shinjiro; and nbe, Junichiro, 4,714,323, Cl. 350-350.00S.
oka, Hiroyuki, 4,657,367, Cl. 354-415.000.
, Hideo; Matsushima, Masaaki; Matsuda, Keiko; and Shibata, rofumi, 4,677,042, Cl. 430-5.000.
, Masatake, 4,639,095, Cl. 350-427.000.
, Masatake, 4,650,291, Cl. 350-427.000.
, Masatake; Nishimura, Tetsuharu; and Yokota, Hideo, 82,237, Cl. 358-225.000.
, Masatake; Ikemori, Keiji; Tanaka, Tsunefumi; and Tanaka, zuo, 4,702,567, Cl. 350-427.000.
Masatake; Tsuji, Sadahiko; and Asano, Toshiaki, 4,712,883, 350-427.000.
Minoru, 4,699,799, Cl. 427-37.000.
Tokuzo; Takayama, Tsutomu; and Kaji, Toshio, 4,638,350, 358-29.000.
Tokuzo, 4,638,365, Cl. 358-228.000.
Toshio; Kinoshita, Takao; and Tojo, Akihiko, 4,635,122, Cl. -213.000.

Kato, Yoshiaki, 4,712,139, Cl. 358-257.000.
Kato, Yuzo; and Suzuki, Hidetoshi, 4,686,580, Cl. 358-287.000.
Kawabata, Takashi, 4,637,705, Cl. 354-403.000.
Kawabata, Takashi; Sato, Yuichi; Tsunekawa, Tokuichi; and Matsumura, Susumu, 4,681,432, Cl. 356-4.000.
Kawaguchi, Fumiaki; Shimazu, Toshikazu; and Takahashi, Kazuhisa, 4,712,117, Cl. 346-108.000.
Kawai, Tohru, 4,697,891, Cl. 350-429.000.
Kawamoto, Kenichi, 4,695,145, Cl. 354-271.100.
Kawamura, Hideaki; Sakurada, Nobuaki; and Sasaki, Takashi, 4,658,284, Cl. 358-11.000.
Kawamura, Hideaki; Sakurada, Nobuaki; and Sasaki, Takashi, 4,658,300, Cl. 358-280.000.
Kawamura, Hideaki; Sasaki, Takashi; and Sakurada, Nobuaki, 4,667,228, Cl. 358-80.000.
Kawamura, Hideaki; Sakurada, Nobuaki; Sato, Yuichi; and Watanabe, Yoshitaka, 4,713,701, Cl. 358-298.000.
Kawamura, Masaharu, 4,657,368, Cl. 354-452.000.
Kawamura, Masaharu; and Arakawa, Kazuhiko, 4,674,854, Cl. 354-289.100.
Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, 4,679,925, Cl. 354-173.100.
Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Kiuchi, Masayoshi; and Amano, Kenichiro, 4,685,789, Cl. 354-173.110.
Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, 4,690,532, Cl. 354-173.110.
Kawamura, Masaharu; and Hiramatsu, Akira, 4,693,582, Cl. 354-403.000.
Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, 4,697,899, Cl. 354-173.110.
Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, 4,699,487, Cl. 354-173.100.
Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, 4,716,428, Cl. 354-173.110.
Kawamura, Naoto; and Dei, Katsuhito, 4,660,077, Cl. 358-75.000.
Kawamura, Naoto, 4,674,861, Cl. 355-4.000.
Kawamura, Naoto; and Abe, Shunichi, 4,713,684, Cl. 358-78.000.
Kawanabe, Tetsuya, 4,712,072, Cl. 328-130.100.
Kawanabe, Tsuyoshi, 4,641,258, Cl. 364-710.000.
Kazumi, Jiro; and Ishihara, Masaaki, 4,664,491, Cl. 354-105.000.
Kazumi, Jiro, 4,678,304, Cl. 354-173.110.
Kikuchi, Kazuhiko; Honguu, Kazuoki; and Sawamura, Mitsuharu, 4,711,821, Cl. 428-457.000.
Kimizuka, Junichi; and Ishii, Masaaki, 4,676,499, Cl. 271-270.000.
Kimizuka, Junichi; Ushio, Yukihide; and Seto, Kaoru, 4,695,714, Cl. 250-205.000.
Kimura, Shinichi, 4,706,078, Cl. 340-735.000.
Kimura, Takashi, 4,658,310, Cl. 360-95.000.
Kimura, Tetsuo, 4,674,899, Cl. 400-605.000.
Kinoshita, Takao, 4,635,126, Cl. 358-228.000.
Kinoshita, Takao, 4,641,183, Cl. 358-44.000.
Kinoshita, Takao; Sakai, Shinji; Suga, Akira; and Tojo, Akihiko, 4,647,978, Cl. 358-213.000.
Kinoshita, Takao; Sakai, Shinji; Suga, Akira; and Tojo, Akihiko, 4,663,669, Cl. 358-213.190.
Kishi, Hirotoshi, 4,636,787, Cl. 340-792.000.
Kishi, Hirotoshi, 4,646,164, Cl. 358-300.000.
Kishi, Hiroyoshi; and Matsushima, Masaaki, 4,693,943, Cl. 428-678.000.
Kitagishi, Nozomu; Momiyama, Kikuo; Ikemori, Keiji; Takahashi, Sadatoshi; and Tanaka, Tsunefumi, 4,639,096, Cl. 350-427.000.
Kitagishi, Nozomu, 4,659,189, Cl. 350-427.000.
Kitagishi, Nozomu; Takahashi, Sadatoshi; Ikemori, Keiji; Momiyama, Kikuo; and Tanaka, Tsunefumi, 4,695,133, Cl. 350-427.000.
Kitahara, Nobuko; Takamatsu, Osamu; Kaneko, Tetsuya; and Sugata, Masao, 4,636,038, Cl. 350-339.00R.
Kiuchi, Masayoshi; and Suzuki, Nobuyuki, 4,645,326, Cl. 354-484.000.
Kiuchi, Masayoshi; Harada, Yoshihito; Kobayashi, Ryuichi; and Kawamura, Masaharu, 4,676,624, Cl. 354-410.000.
Kiuchi, Masayoshi, 4,678,306, Cl. 354-217.000.
Kiuchi, Masayoshi, 4,692,014, Cl. 354-471.000.
Kiyohara, Takehiko, 4,712,119, Cl. 346-140.00R.
Kiyohara, Takehiko; Terasawa, Koji; and Miyakawa, Akira, 4,712,172, Cl. 346-1.100.
Kobayashi, Hiroo, 4,673,956, Cl. 346-160.000.
Kobayashi, Junji; and Kimura, Takashi, 4,639,797, Cl. 360-71.000.
Kobayashi, Junji; and Nakano, Hisashi, 4,686,591, Cl. 360-85.000.
Kobayashi, Kazunobu; Sekiguchi, Kyoji; Matsumura, Isao; and Madate, Haruhisa, 4,690,525, Cl. 351-206.000.
Kobayashi, Masatsune; Eida, Tsuyoshi; Koike, Shoji; and Nakousai, Keiko, 4,661,158, Cl. 106-22.000.
Kobayashi, Ryuichi; Akashi, Akira; and Kawamura, Masaharu, 4,636,056, Cl. 354-484.000.
Kodaira, Takanori; Egawa, Akira; and Namai, Akihiro, 4,671,639, Cl. 354-400.000.
Kodaira, Takanori, 4,681,418, Cl. 354-288.000
Kodaira, Takanori; Namai, Akihiro; and Egawa, Akira, 4,684,233, Cl. 354-400.000.

Kodaira, Takanori; and Egawa, Akira, 4,708,454, Cl. 354-422.000.

Kohayakawa, Yoshimi; and Masuda, Takashi, 4,634,241, Cl. 350-516.000.

Kohayakawa, Yoshimi, and Masuda, Takashi, 4,704,012, Cl. 350-516.000.

Kohno, Michio, 4,705,940, Cl. 250-201.000.

Koike, Shoji; and Iwata, Kazuo, 4,689,078, Cl. 106-22.000.

Koizumi, Yuichiro; Nojima, Masaki; and Shimiya, Keiji, 4,701,622, Cl. 250-486.100.

Komatsu, Toshiyuki; Nakagawa, Katsumi; Fukaya, Masaki; and Shoji, Tatsumi, 4,658,280, Cl. 357-30.000.

Komatsu, Toshiyuki; Hirai, Yutaka; Nakagawa, Katsumi; and Fukuda, Tadaji, 4,664,998, Cl. 430-64.000.

Komine, Yoshio; and Kawamoto, Kenichi, 4,636,042, Cl. 350-429.000.

Komiya, Yutaka; Nakamura, Shinichi; Miyata, Masanori; Hirose, Masayuki; and Mori, Toshihiko, 4,647,188, Cl. 355-55.000.

Komiya, Yutaka; Murakami, Katsumi; Inuzuka, Tsuneki; and Sakamaki, Hisashi, 4,671,647, Cl. 355-14.00R.

Komiya, Yutaka; Tomosada, Masahiro; Nakamura, Shinichi; Miyata, Masanori; Hirose, Masayuki; and Adachi, Hideki, 4,697,916, Cl. 355-14.00E.

Komori, Shigehiro; Sakamaki, Hisashi; Hattori, Hiroyuki; Iida, Toshihide; Miyamoto, Koichi; and Umezawa, Kazumi, 4,662,740, Cl. 355-3.0SH.

Kondo, Hiroatsu; Ozawa, Toshiaki; and Yamada, Yasuaki, 4,655,624, Cl. 400-208.000.

Kondo, Hiroatsu, 4,657,420, Cl. 400-625.000.

Kondo, Hiroatsu, 4,676,679, Cl. 400-211.000.

Konno, Tatsuo, 4,693,578, Cl. 354-173.100.

Konno, Tatsuo; Sugiyama, Yoshiaki; Terashima, Jun; and Kiuchi, Masayoshi, 4,699,486, Cl. 354-82.000.

Kosugi, Masao, 4,648,708, Cl. 355-53.000.

Kosugi, Masao; and Kano, Ichiro, 4,676,631, Cl. 355-55.000.

Kosugi, Masao, 4,682,037, Cl. 250-548.000.

Kotera, Masahide, 4,674,126, Cl. 382-53.000.

Kouzato, Yasuo, 4,686,538, Cl. 346-1.100.

Koyama, Takeshi; and Ohtaka, Keiji, 4,699,493, Cl. 354-406.000.

Kozuki, Susumu; Nagasawa, Kenichi; Edakubo, Hiroo; Sato, Junichi; and Takayama, Nobutoshi, 4,638,390, Cl. 360-74.100.

Kozuki, Susumu; Takayama, Nobutoshi; Edakubo, Hiroo; Ushiro, Tatsuzo; Takei, Masahiro; and Nagasawa, Kenichi, 4,665,449, Cl. 360-77.000.

Kozuki, Susumu; Takimoto, Hiroyuki; Edakubo, Hiroo; and Takayama, Nobutoshi, 4,691,256, Cl. 360-73.000.

Kubota, Atsushi; Taniishi, Shinnosuke; Sasaki, Shinichi; Kimura, Akiyoshi; and Koike, Michiro, 4,708,455, Cl. 355-3.00R.

Kugioka, Michihiro, 4,639,084, Cl. 350-255.000.

Kumagai, Kaoru, 4,666,321, Cl. 400-285.000.

Kumagai, Motoo, 4,654,750, Cl. 361-321.000.

Kunishi, Kosuke; Mikada, Hiroyuki; and Watanabe, Tsunehiro, 4,677,649, Cl. 375-122.000.

Kuribayashi, Masaki; Nakazawa, Toshihiko; and Kanbe, Junichiro, 4,709,995, Cl. 350-350.00S.

Kuroda, Yasuo, 4,639,608, Cl. 250-578.000.

Kuwayama, Tetsuro; Tanaka, Nobuyoshi; and Hashimoto, Seiji, 4,668,975, Cl. 358-44.000.

Kyogoku, Hiroshi; Nozaki, Mineo; and Rachi, Masahiro, 4,655,130, Cl. 101-93.230.

Kyuma, Kenji; and Hieda, Teruo, 4,712,138, Cl. 358-213.310.

Maeda, Masaya, 4,652,952, Cl. 360-106.000.

Maeda, Masaya, 4,706,139, Cl. 360-71.000.

Maeno, Hiroshi, 4,653,883, Cl. 354-64.000.

Maeno, Hiroshi; Yoshida, Michio; and Tamamura, Hideo, 4,666,274, Cl. 354-64.000.

Maeshima, Katsuyoshi, 4,701,805, Cl. 358-282.000.

Maetani, Masami; and Yanagawa, Hitoshi, 4,663,573, Cl. 318-6.000.

Makita, Masaru, 4,692,045, Cl. 400-697.000.

Mamiya, Toshiharu; and Wakasa, Hiroyuki, 4,677,530, Cl. 361-414.000.

Masaki, Hisaji, 4,639,791, Cl. 358-300.000.

Masaki, Yuichi, 4,636,817, Cl. 346-160.000.

Masaki, Yuichi, 4,653,859, Cl. 350-333.000.

Masuda, Takashi; Nakamura, Yukitugu; and Sekiguchi, Kyoji, 4,710,003, Cl. 351-212.000.

Masui, Toshiyuki; Hirasawa, Masahide; Kozuki, Susumu; Kashida, Motokazu; Takei, Masahiro; and Nagasawa, Kenichi, 4,675,867, Cl. 371-31.000.

Masunaga, Makoto; and Tezuka, Nobuo, 4,635,123, Cl. 358-213.000.

Masunaga, Makoto; Muramoto, Tomotaka; and Nagasawa, Kenichi, 4,679,066, Cl. 358-29.000.

Matsuda, Hiroshi, 4,647,518, Cl. 430-21.000.

Matsuda, Hiroshi; Haruta, Masahiro; Hirai, Yutaka; Nishimura, Yukuo; Eguchi, Ken; and Nakagiri, Takashi, 4,693,915, Cl. 427-256.000.

Matsumoto, Masakazu; and Yamashita, Masataka, 4,666,809, Cl. 430-76.000.

Matsumoto, Masakazu; Takiguchi, Takao; Yamashita, Masataka; Umehara, Shoji; and Ishikawa, Shozo, 4,702,982, Cl. 430-72.000.

Matsumoto, Tokio; Aoki, Seiichi; Matsuda, Hiroto; Ikeda, Masami; Matsumoto, Haruyuki; and Saito, Asao, 4,646,105, Cl. 346-1.100.

Matsumoto, Yasuyuki; Murai, Keiichi; Fukuda, Tadaji; and Ogawa, Kyosuke, 4,702,981, Cl. 430-69.000.

Matsumura, Isao, 4,657,356, Cl. 350-516.000.

Matsumura, Isao, 4,674,845, Cl. 350-516.000.

Matsumura, Isao, 4,699,481, Cl. 351-205.000.

Matsumura, Susumu, 4,636,627, Cl. 250-201.000.

Matsumura, Susumu; and Suzuki, Takashi, 4,662,716, C 350-169.000.

Matsumura, Takashi, 4,712,016, Cl. 250-548.000.

Matsuoka, Kazuhiko; Usui, Masayuki; Minoura, Kazuo; Baba Takeshi; and Someya, Atsushi, 4,641,920, Cl. 350-173.000.

Matsushita, Koichi; Isohata, Junji; Yamamoto, Hironori; Miyazaki Makoto; Ozawa, Kunitaka; and Yoshinari, Hideki, 4,676,630, C 355-53.000.

Matsushita, Takashi; Takahashi, Sadatoshi; Ikemori, Keiji; Kitag shi, Nozomu; Tanaka, Tsunefumi; and Momiyama, Kiku 4,711,534, Cl. 350-426.000.

Matsuzaka, Kenzo; Okano, Seitaro; and Nakamura, Nobu 4,698,089, Cl. 65-290.000.

Mirua, Konoe; Takimoto, Hiroshi; Kaneko, Toshio; Ohta, Tokuy Kobayashi, Masatsune; and Eida, Tsuyoshi, 4,683,002, C 106-20.000.

Misumi, Teruo, 4,707,210, Cl. 156-345.000.

Mita, Yoshinobu; and Ikeda, Yoshinori, 4,653,111, Cl. 382-69.00

Mitsuhashi, Yasuo; Uchiyama, Masaki; Murakawa, Kazunori; an Okado, Kenji, 4,640,882, Cl. 430-110.000.

Mitsuhashi, Yasuo, 4,699,865, Cl. 430-101.000.

Miura, Kyo, 4,670,083, Cl. 65-3.150.

Miyagi, Ken, 4,635,129, Cl. 358-285.000.

Miyagi, Ken, 4,641,197, Cl. 358-280.000.

Miyagi, Ken, 4,641,199, Cl. 358-285.000.

Miyata, Masanori; Komiya, Yutaka; Nakamura, Shinichi; Hiros Masayuki; Adachi, Hideki; and Tomosada, Masahiro, 4,641,95 Cl. 355-14.00R.

Miyawaki, Makoto; and Ikawa, Kazuo, 4,666,280, Cl. 354-414.00

Miyawaki, Mamoru, 4,705,346, Cl. 350-96.140.

Miyazaki, Makoto; Yomoda, Minoru; and Suzuki, Takehik 4,635,373, Cl. 33-180.00R.

Miyazaki, Toshihiko; Sugawa, Etsuko; Tomida, Yoshinor Munakata, Hirohide; Nishimura, Yukuo; and Eguchi, Ke 4,674,436, Cl. 118-402.000.

Miyazaki, Yasuko; Matsuoka, Mikiharu; Horyu, Sakae; Kanemot Takashi; and Katayama, Hirohiko, 4,651,299, Cl. 364-900.00

Mizuno, Yoshio, 4,704,637, Cl. 358-780.000.

Mizusawa, Nobutoshi; and Koumura, Noboru, 4,677,448, Cl. 34 140.00R.

Mizutani, Morikazu; Onoda, Shigeyoshi; and Kanemitsu, Shinj 4,705,384, Cl. 355-3.00R.

Mochizuki, Noritaka; Jin, Chikara; and Kaneko, Toshie, 4,644,15 Cl. 250-227.000.

Momiyama, Kikuo; and Someya, Hiromi, 4,664,485, C 350-410.000.

Mouri, Hidemasa; Tobita, Michiaki; Eto, Naonobu; Kou Shunzo; Ohkura, Kosuke; Toganoh, Shigeo; Arai, Ryuich Sakaki, Mamoru; Iwata, Kazuo; and Shibasaki, Hirom 4,642,247, Cl. 427-214.000.

Mukohjima, Hitoshi; and Hiramatsu, Akira, 4,649,311, C 310-323.000.

Mukoujima, Hitoshi; Hiramatsu, Akira; Murakami, Hiroyasu; an Katsuma, Makoto, 4,634,915, Cl. 310-323.000.

Munakata, Hirohide; Tomida, Yoshinori; Haruta, Masahiro; Hira Yutaka; Nishimura, Yukuo; and Hamamoto, Takashi, 4,634,62 Cl. 430-325.000.

Murakami, Osamu, 4,683,519, Cl. 361-424.000.

Murata, Hiroshi, 4,644,492, Cl. 364-900.000.

Muto, Kazuhiko, 4,714,844, Cl. 307-494.000.

Nagasawa, Kenichi; and Takayama, Nobutoshi, 4,677,503, C 360-73.000.

Nagase, Yukio; Egami, Hidemi; Takeuchi, Tatsuo; and Satomur Hiroshi, 4,700,261, Cl. 361-225.000.

Nagashima, Masasumi; Nozaki, Mineo; Asakura, Osamu; an Uchikata, Yoshio, 4,692,774, Cl. 346-76.0PH.

Nagashima, Nao, 4,679,096, Cl. 358-287.000.

Nagashima, Nao, 4,691,365, Cl. 382-54.000.

Nagashima, Nao, 4,695,895, Cl. 358-280.000.

Nagashima, Nao, 4,700,234, Cl. 358-260.000.

Nagashima, Nao, 4,701,808, Cl. 358-287.000.

Nagata, Satoshi, 4,686,525, Cl. 340-790.000.

Nagata, Satoshi, 4,715,006, Cl. 364-523.000.

Nagata, Toru; Aoshima, Chikara; Maeno, Hiroshi; and Tamamur Hideo, 4,643,549, Cl. 354-64.000.

Nagira, Keiji; and Fukui, Hiroshi, 4,675,700, Cl. 346-76.0PH

Nakagawa, Katsumi; Komatsu, Toshiyuki; Hirai, Yutaka; Misum Teruo; and Fukuda, Tadaji, 4,670,369, Cl. 430-128.000.

Nakahata, Kimio; Toyono, Tsutomu; Takagi, Atsushi; and Agur Yoshinori, 4,641,948, Cl. 355-3.0SH.

Nakamura, Shunji; Kan, Fumitaka; Egami, Hidemi; Hosoi, Atsush Tajima, Hatsuo; and Nakahata, Kimio, 4,638,760, C 118-658.000.

Nakamura, Takashi; Hatanaka, Katsunori; Omata, Satoshi; an Osada, Yoshiyuki, 4,675,667, Cl. 340-784.000.

Nakamura, Yasuo, 4,637,013, Cl. 370-85.000.

Nakamura, Yukitugu; Masuda, Takashi; and Sekiguchi, Kyo 4,660,946, Cl. 351-212.000.

Nakamura, Yukitugu; Sekiguchi, Kyoji; and Masuda, Takash 4,666,269, Cl. 351-212.000.

Nakaoka, Masaki; Komatsu, Teruo; Goto, Shinji; and Matsunag Tsuyoshi, 4,652,149, Cl. 384-100.000.

Nakatsui, Hisashi; Imataki, Hiroyuki; and Hajimoto, Yoshiok 4,682,019, Cl. 250-211.00R.

Nakayama, Hiroki; Sato, Yasuhisa; and Yamada, Yasuyuki, 4,695,134, Cl. 350-432.000.
Nakayama, Tomobumi; Mori, Toshihiko; Hirose, Masayuki; Ohbuchi, Toru; Miyata, Masanori; Nakamura, Shinichi; and Honjo, Takeshi, 4,712,908, Cl. 355-14.0SH.
Nakazawa, Tamotsu, 4,680,641, Cl. 358-257.000.
Namai, Akihiro; Egawa, Akira; and Kodaira, Takanori, 4,653,892, Cl. 354-400.000.
Namai, Akihiro; Egawa, Akira; and Kodaira, Takanori, 4,710,010, Cl. 354-400.000.
Negi, Tsuneo, 4,710,925, Cl. 371-5.000.
Nishikawa, Hiroshi, 4,651,295, Cl. 364-709.000.
Nishimura, Akimasa, 4,710,831, Cl. 360-99.000.
Nishimura, Norihisa; Suga, Yuko; Miyachi, Takeshi; and Masaki, Yuichi, 4,634,227, Cl. 350-334.000.
Nishimura, Tetsuharu; Yokota, Hideo; and Kato, Masatake, 4,677,489, Cl. 358-213.130.
Nishimura, Yukuo; Asano, Toshiaki; Mizusawa, Nobutoshi; Kawakami, Eigo; Haruta, Masahiro; Noma, Takashi; Takagi, Hiroshi; Nakazawa, Mitsunobu; and Ozawa, Kunitaka, 4,640,592, Cl. 350-96.320.
Nishimura, Yukuo; Eguchi, Ken; Matsuda, Hiroshi; Haruta, Masahiro; Hirai, Yutaka; and Nakagiri, Takashi, 4,683,144, Cl. 427-35.000.
Nishimura, Yukuo; Eguchi, Ken; Matsuda, Hiroshi; Haruta, Masahiro; Hirai, Yutaka; and Nakagiri, Takashi, 4,683,145, Cl. 427-36.000.
Nishimura, Yukuo; Kawakami, Eigo; Asano, Toshiaki; Haruta, Masahiro; Takagi, Hiroshi; Noma, Takashi; Mizusawa, Nobutoshi; Nakazawa, Mitsunobu; and Ozawa, Kunitaka, 4,685,766, Cl. 350-96.320.
Nishimura, Yukuo; Miyawaki, Mamoru; Nose, Noriyuki; and Nakagiri, Takashi, 4,691,982, Cl. 350-96.120.
Nishimuro, Yoshiaki; Hirata, Osamu; Kano, Kuniomi; Miyakawa, Akira; Fushimoto, Hideo; and Sekine, Kazumi, 4,698,783, Cl. 364-710.000.
Nishino, Fumio; Onoda, Shigeyoshi; Nomura, Akihiro; Mizutani, Morikazu; Kanemitsu, Shinji; and Toriumi, Mototada, 4,714,337, Cl. 355-3.0DR.
Nishiyama, Masaki, 4,712,188, Cl. 364-900.000.
Nobuta, Hiroshi, 4,706,127, Cl. 358-280.000.
Noda, Atsushi; and Hanakata, Takayoshi, 4,647,233, Cl. 400-120.000.
Noguchi, Hiromichi, 4,657,631, Cl. 156-655.000.
Noguchi, Hiromichi; Inamoto, Tadayoshi; and Munakata, Megumi, 4,688,053, Cl. 346-140.00R.
Noguchi, Hiromichi; Inamoto, Tadayoshi; and Munakata, Megumi, 4,688,055, Cl. 346-140.00R.
Noguchi, Hiromichi; Inamoto, Tadayoshi; and Munakata, Megumi, 4,688,056, Cl. 346-140.00R.
Nojiri, Hidetoshi, 4,640,585, Cl. 350-413.000.
Nojiri, Hidetoshi; Miyazawa, Seiichi; Hakamada, Isao; and Hajimoto, Yoshioki, 4,706,254, Cl. 372-46.000.
Notagashira, Hidefumi; Sumi, Akiyasu; Inaba, Hiroyoshi; Katsuma, Makoto; Murakami, Hiroyasu; and Hiramatsu, Akira, 4,660,933, Cl. 350-255.000.
Nozaki, Mineo; and Asakura, Osamu, 4,711,591, Cl. 400-225.000.
Ochi, Hiroshi; Tetsutani, Nobuji; Yamamoto, Tetsuji; Kitani, Shigehisa; and Watanabe, Asao, 4,698,688, Cl. 358-257.000.
Oda, Kazuyuki; Yui, Yoshikiyo; Kataoka, Yoshiharu; and Hata, Hideo, 4,714,331, Cl. 353-122.000.
Odagawa, Kazuyoshi, 4,709,128, Cl. 200-340.000.
Ogata, Yukihiko, 4,675,742, Cl. 358-257.000.
Ogawa, Kyosuke; Shirai, Shigeru; Kanbe, Junichiro; Saitoh, Keishi; Osato, Yoichi; and Misumi, Teruo, 4,636,450, Cl. 430-84.000.
Ogawa, Kyosuke; Shirai, Shigeru; Saitoh, Keishi; Misumi, Teruo; and Kanbe, Junichiro, 4,637,972, Cl. 430-84.000.
Ogawa, Kyosuke, 4,687,722, Cl. 430-59.000.
Ogawa, Yukio, 4,643,554, Cl. 354-400.000.
Ogawa, Yukio; and Taka, Hideo, 4,688,919, Cl. 354-403.000.
Ogino, Yoshitaka, 4,701,807, Cl. 358-284.000.
Oguchi, Yoshihiro; and Katagiri, Kazuharu, 4,647,521, Cl. 430-58.000.
Ogura, Shigetaro; and Handa, Yuichi, 4,707,059, Cl. 350-96.130.
Ogura, Tokihiko; and Hashimoto, Shigeru, 4,670,799, Cl. 360-66.000.
Ohara, Katsunobu; Tanaka, Keiji; Ando, Yujiro; and Moriyama, Inao, 4,675,261, Cl. 430-53.000.
Ohara, Tsunemasa; Suzuki, Masayuki; Tosaka, Yoichi; Kobayashi, Ryuichi; Harada, Yoshihito; and Kawamura, Masaharu, 4,671,635, Cl. 354-173.100.
Ohe, Shinichi; and Ito, Yuji, 4,643,566, Cl. 356-72.000.
Ohhashi, Kunimi, 4,672,984, Cl. 134-56.00R.
Ohkubo, Yukitoshi; Kaneko, Shuzo; and Kanbe, Junichiro, 4,671,642, Cl. 355-3.00R.
Ohmi, Tadahiro; and Tanaka, Nobuyoshi, 4,686,554, Cl. 357-30.000.
Ohmori, Kouichi, 4,643,551, Cl. 354-132.000.
Ohmori, Kouichi, 4,705,373, Cl. 354-127.110.
Ohmura, Hiroshi; Tsunekawa, Tokuichi; Kiyohara, Shyuichi; and Kawabata, Takashi, 4,682,873, Cl. 354-478.000.
Ohno, Akio; and Torigai, Akiyoshi, 4,636,062, Cl. 355-43.000.
Ohno, Akio; Tanaka, Kiyoharu; Takeda, Kenji; Yoshinaga, Kenji; Oguri, Shinichi; and Takada, Yusaku, 4,646,679, Cl. 118-691.000.
Ohno, Akio, 4,676,627, Cl. 355-14.0CH.
Ohno, Akio, 4,688,930, Cl. 355-25.000.
Ohnuki, Ichiro, 4,658,232, Cl. 335-270.000.
Ohnuki, Ichiro, 4,668,066, Cl. 354-152.000.
Ohnuki, Ichiro; Aihara, Yoshihiko; Tosaka, Yoichi; and Eguchi, Masaharu, 4,693,574, Cl. 354-21.000.
Ohsawa, Toshifumi, 4,687,307, Cl. 354-21.000.
Ohta, Masakatsu, 4,683,524, Cl. 362-268.000.
Ohta, Shinichi, 4,710,821, Cl. 358-256.000.
Ohtaka, Keiji; Akashi, Akira; Ishizaki, Akira; Suda, Yasuo; and Hiramatsu, Akira, 4,670,645, Cl. 250-201.000.
Ohtaka, Keiji; Hiramatsu, Akira; Suda, Yasuo; Akashi, Akira; and Ishizaki, Akira, 4,698,492, Cl. 250-201.000.
Ohtaka, Keiji, 4,712,901, Cl. 354-407.000.
Ohtsuka, Masanori; and Taka, Hideo, 4,669,849, Cl. 354-400.000.
Ohtsuka, Yasumasa; and Ohkubo, Masaharu, 4,682,876, Cl. 355-3.00R.
Ohtsuka, Yasumasa; and Ohkubo, Masaharu, 4,707,748, Cl. 358-298.000.
Oizumi, Kouji; Sato, Yasuhisa; Yamada, Yasuyuki; and Nakayama, Hiroki, 4,652,091, Cl. 350-427.000.
Okada, Kunio, 4,673,990, Cl. 358-296.000.
Okada, Shinjiro; Katagiri, Kazuharu; and Kanbe, Junichiro, 4,639,089, Cl. 350-341.000.
Okada, Shinjiro; and Kanbe, Junichiro, 4,681,404, Cl. 350-350.00S.
Okada, Shinjiro; and Tamura, Yasuyuki, 4,697,887, Cl. 350-350.00S.
Okada, Shinjiro; Kanbe, Junichiro; Tsuboyama, Akira; and Inaba, Yutaka, 4,712,877, Cl. 350-350.00S.
Okamura, Shigeru, 4,668,960, Cl. 346-24.000.
Okamura, Shigeru, 4,698,566, Cl. 318-332.000.
Okino, Tadashi; and Fukushima, Nobuo, 4,675,738, Cl. 358-167.000.
Okino, Tadashi, 4,692,013, Cl. 354-413.000.
Okino, Tadashi, 4,711,546, Cl. 354-425.000.
Okumura, Ichiro; Tsukimoto, Takayuki; Okuno, Takuo; Izukawa, Kazuhiro; Seki, Hiroyuki; Mukohjima, Hitoshi; Kaneda, Naoya; and Hiramatsu, Akira, 4,692,650, Cl. 310-323.000.
Okuno, Takuo; and Seki, Hiroyuki, 4,672,256, Cl. 310-323.000.
Okuno, Takuo, 4,692,672, Cl. 318-116.000.
Ono, Takeshi, 4,641,133, Cl. 340-540.000.
Onoda, Ruri; Kuroki, Yoichi; and Nakamura, Gen, 4,694,186, Cl. 250-578.000.
Osada, Yoshiyuki; Tsuda, Hisanori; Sano, Masafumi; Omata, Satoshi; Takasu, Katsuji; and Hirai, Yutaka, 4,645,684, Cl. 427-38.000.
Osato, Yoichi; Fujii, Eiichi; Saito, Ichiro; and Arao, Kozo, 4,664,977, Cl. 428-336.000.
Osato, Yoichi; Saito, Ichiro; Arao, Kozo; Fujii, Eiichi; and Takasu, Yoshio, 4,675,767, Cl. 360-131.000.
Ozawa, Kunitaka; Haruta, Masahiro; Eida, Tsuyoshi; and Hamamoto, Takashi, 4,664,815, Cl. 210-96.100.
Ozawa, Kunitaka; Ayata, Naoki; Suzuki, Hidetoshi; Saito, Seiji; and Koumura, Noboru, 4,694,502, Cl. 382-17.000.
Ozawa, Kunitaka; Haruta, Masahiro; Eida, Tsuyoshi; and Hamamoto, Takashi, 4,698,151, Cl. 210-96.100.
Ozawa, Kunitaka; Nakamura, Takashi; Katayama, Akira; Hatanaka, Katsunori; Mori, Tetsuzo; and Takaoka, Makoto, 4,716,421, Cl. 346-140.00R.
Ozawa, Masakazu; Ozawa, Kunitaka; Hatanaka, Katsunori; Suzuki, Tetsuo; Mori, Tetsuzo; Shiina, Tadashi; and Ebinuma, Ryuichi, 4,651,173, Cl. 346-136.000.
Ozawa, Toshiaki; Yamada, Yasuaki; and Kondo, Hiroatsu, 4,640,634, Cl. 400-144.200.
Petersdorf, Gerhard, 4,685,664, Cl. 271-227.000.
Sado, Ichiro, 4,696,048, Cl. 382-13.000.
Saito, Asao; and Watanabe, Kunio, 4,692,773, Cl. 346-1.100.
Saito, Kenji; Eguchi, Ken; Kawada, Haruki; Tomida, Yoshinori; Nishimura, Yukuo; and Nakagiri, Takashi, 4,682,897, Cl. 374-45.000.
Saito, Seiji; and Ishizawa, Yasuhisa, 4,675,908, Cl. 382-41.000.
Saito, Syuichiro; Date, Nobuaki; Tezuka, Nobuo; and Okino, Tadashi, 4,689,689, Cl. 358-228.000.
Saito, Syuichiro; and Okino, Tadashi, 4,695,894, Cl. 358-228.000.
Saito, Syuichiro; and Okino, Tadashi, 4,714,966, Cl. 358-335.000.
Saito, Takashi; Nitanda, Hiroshi; Inuzuka, Tsuneki; Tokuhara, Mitsuhiro; and Honda, Haruhisa, 4,702,586, Cl. 355-3.00R.
Saitoh, Keishi; Ohnuki, Yukihiko; and Ohno, Shigeru, 4,642,277, Cl. 430-57.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,650,736, Cl. 430-57.000.
Saitoh, Keishi; Ohnuki, Yukihiko; and Ohno, Shigeru, 4,666,807, Cl. 430-58.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,675,263, Cl. 430-57.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,678,733, Cl. 430-57.000.
Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,696,881, Cl. 430-57.000.
Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,696,882, Cl. 430-57.000.
Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,696,883, Cl. 430-57.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,696,884, Cl. 430-58.000.

Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,701,392, Cl. 430-57.000.

Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,701,393, Cl. 430-57.000.

Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,705,730, Cl. 430-57.000.

Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,705,731, Cl. 430-57.000.

Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,705,732, Cl. 430-57.000.

Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,705,733, Cl. 430-57.000.

Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,705,734, Cl. 430-57.000.

Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,705,735, Cl. 430-57.000.

Sakai, Shinji; Kawabata, Takashi; and Harada, Yoshihito, 4,639,108, Cl. 354-289.100.

Sakai, Shinji; Shimoda, Nobuhiko; Howse, Kazuya; and Kinoshita, Takao, 4,641,942, Cl. 354-406.000.

Sakai, Shinji; and Hashimoto, Seiji, 4,644,403, Cl. 358-213.000.

Sakai, Shinji; and Kawabata, Takashi, 4,681,419, Cl. 354-402.000.

Sakai, Shinji; and Kawabata, Takashi, 4,687,915, Cl. 250-201.000.

Sakai, Shinji; and Kawabata, Takashi, 4,688,914, Cl. 354-173.110.

Sakaki, Mamoru; and Arai, Ryuichi, 4,701,837, Cl. 346-135.100.

Sakamoto, Masahiro, 4,658,302, Cl. 358-294.000.

Sakamoto, Masahiro, 4,663,672, Cl. 358-294.000.

Sakamoto, Masahiro, 4,686,579, Cl. 358-282.000.

Sakane, Toshio; Taguchi, Tetsuya; Ogawa, Masahiko; Tamura, Shuichi; and Tsunekawa, Tokuichi, 4,636,053, Cl. 354-403.000.

Sakane, Toshio; and Tsunekawa, Tokuichi, 4,638,367, Cl. 358-228.000.

Sakashita, Kiichiro, 4,666,813, Cl. 430-110.000.

Sakurada, Nobuaki; Kawamura, Hideaki; and Sasaki, Takashi, 4,635,078, Cl. 346-140.00R.

Sakurada, Nobuaki; Kawamura, Hideaki; and Sasaki, Takashi, 4,639,747, Cl. 346-140.00R.

Sakurada, Nobuaki; Kawamura, Hideaki; and Sasaki, Takashi, 4,672,432, Cl. 358-75.000.

Sakuragi, Takamasa; and Fushimi, Ikuo, 4,716,305, Cl. 307-296.00R.

Sakurai, Yoshifumi, 4,670,353, Cl. 428-606.000.

Sasaki, Takashi, 4,636,844, Cl. 358-80.000.

Sasaki, Takashi; and Matsunaga, Kazuhiro, 4,651,223, Cl. 358-284.000.

Sasaki, Takashi; Sakurada, Nobuaki; and Kawamura, Hideaki, 4,682,186, Cl. 346-140.00R.

Sasaki, Takashi; Sakurada, Nobuaki; Kawamura, Hideaki; and Moriyama, Jiro, 4,682,216, Cl. 358-79.000.

Sasaki, Takashi, 4,714,964, Cl. 358-298.000.

Sato, Mitsuya; and Yomoda, Minoru, 4,659,227, Cl. 356-401.000.

Sato, Mitsuya; and Hamasaki, Bunei, 4,677,474, Cl. 358-101.000.

Sato, Yasuhisa; Yamada, Yasuyuki; and Nakayama, Hiroki, 4,659,186, Cl. 350-423.000.

Sato, Yasuhisa; Yamada, Yasuyuki; Nakayama, Hiroki; and Oizumi, Kouji, 4,679,913, Cl. 350-423.000.

Sato, Yasuhisa; Yamada, Yasuyuki; Nakayama, Hiroki; and Oizumi, Kouji, 4,697,882, Cl. 350-287.000.

Sato, Yasushi; and Goto, Masahiro, 4,652,110, Cl. 355-3.0FU.

Sato, Yuichi, 4,636,837, Cl. 358-21.00R.

Sato, Yuichi; Tsunekawa, Tokuichi; and Kawabata, Takashi, 4,678,323, Cl. 365-4.000.

Sato, Yukio, 4,701,803, Cl. 358-260.000.

Satomura, Hiroshi; Takeuchi, Tatsuo; Egami, Hidemi; Nagase, Yukio; and Hosono, Nagao, 4,674,857, Cl. 355-3.00R.

Sawada, Takamasa; and Ihikawa, Junji, 4,685,793, Cl. 355-3.0SH.

Sawada, Takeshi; Toda, Yasushi; and Goto, Hirokazu, 4,649,449, Cl. 360-123.000.

Sawamura, Mitsuharu; and Ito, Susumo, 4,637,953, Cl. 428-333.000.

Sawamura, Mitsuharu; Honguu, Kazuoki; and Kikuchi, Kazuhiko, 4,695,510, Cl. 428-336.000.

Sawamura, Mitsuharu, 4,707,820, Cl. 369-284.000.

Sawamura, Mitsuharu; and Taniguchi, Yasushi, 4,714,308, Cl. 350-1.700.

Sayanagi, Kazuo, 4,643,563, Cl. 355-77.000.

Seki, Hiroyuki; and Okuno, Takuo, 4,692,652, Cl. 310-323.000.

Sekiguchi, Kyoji; and Kohayakawa, Yoshimi, 4,697,895, Cl. 351-243.000.

Sekimura, Nobuyuki; Fukaya, Masaki; Nakagawa, Katsumi; Komatsu, Toshiyuki; Shoji, Tatsumi; and Furushima, Teruhiko, 4,667,214, Cl. 357-30.000.

Sekimura, Nobuyuki; Masaki, Yuichi; Terada, Katsunori; and Kakimoto, Seiji, 4,675,534, Cl. 250-578.000.

Sekimura, Nobuyuki; Kamio, Masaru; Takao, Hideaki; Motoi, Taiko; and Murata, Tatsuo, 4,712,874, Cl. 350-339.00F.

Sekine, Kazumi, 4,711,992, Cl. 235-145.00R.

Seto, Kaoru, 4,639,649, Cl. 318-314.000.

Seto, Kaoru; Ushio, Yukihide; Hori, Kenjiro; Hashimoto, Hirosh Yoshimoto, Toshio; and Kanaiwa, Kiyoshi, 4,712,118, C 346-108.003.

Shigenobu, Michio; and Saito, Takashi, 4,693,587, Cl. 355-3.0F

Shikaumi, Masao, 4,695,149, Cl. 354-430.000.

Shimada, Tsutomu, 4,651,165, Cl. 346-76.0PH.

Shimamura, Yoshinori, 4,707,609, Cl. 250-492.100.

Shimizu, Haruo, 4,691,237, Cl. 358-256.000.

Shimizu, Katsuichi; Masuda, Shunichi; Yagasaki, Toshiaki; an Sakamaki, Hisashi, 4,638,368, Cl. 358-256.000.

Shimizu, Katsuichi, 4,675,533, Cl. 250-578.000.

Shimizu, Katsuichi; Sakamaki, Hisashi; Furuichi, Katsushi; an Honma, Toshio, 4,685,796, Cl. 355-14.00R.

Shimizu, Masami; and Matsuyama, Shinichi, 4,647,176, C 354-475.000.

Shimomura, Akihiko, 4,689,640, Cl. 346-140.00R.

Shimura, Shoichi, 4,708,457, Cl. 355-3.0TR.

Shinoda, Nobuhiko, 4,639,588, Cl. 250-201.000.

Shinoda, Nobuhiko; Sakurada, Nobuaki; Kawamura, Masaharu; Ito, Tadashi; Ito, Fumio; and Murakami, Hiroyasu, 4,664,4 Cl. 354-420.000.

Shinohara, Yukimasa, 4,675,741, Cl. 358-256.000.

Shiomi, Yasuhiko, 4,675,517, Cl. 250-201.000.

Shiomi, Yasuhiko; and Suzuki, Ryoichi, 4,693,597, Cl. 356-1.00

Shirato, Yoshiaki; Komatsu, Toshiyuki; Sento, Shinichi; Kawa Tatsundo; Iwamoto, Hirofumi; Nakagawa, Katsumi; an Kuroda, Yasuo, 4,680,644, Cl. 358-294.000.

Someya, Hiromi; Aihara, Yoshihiko; Mizoguchi, Toyokazu; an Suzuki, Nobuyuki, 4,673,277, Cl. 354-474.000.

Someya, Hiromi, 4,687,308, Cl. 354-82.000.

Sorimachi, Kanehiro; and Kawabata, Takashi, 4,660,969, C 356-1.000.

Sorimachi, Kanehiro; and Tamari, Makoto, 4,677,778, C 40-476.000.

Sorimachi, Kanehiro; and Amitani, Joji, 4,707,642, Cl. 318-37.00

Suda, Shigeyuki; Suzuki, Masayuki; and Ando, Toshio 4,657,352, Cl. 350-432.000.

Suda, Shigeyuki; Niwa, Yukichi; Ogino, Yasuo; Kawakami, Ei and Ohwada, Mitsutoshi, 4,667,316, Cl. 369-44.000.

Suda, Yasuo; Ishizaki, Akira; Ohtaka, Keiji; Akashi, Akira; a Hiramatsu, Akira, 4,634,255, Cl. 354-406.000.

Suda, Yasuo; Alyfuku, Kiyoshi; Sunouchi, Akio; and Suzu Nobuyuki, 4,681,420, Cl. 354-409.000.

Suda, Yasuo; Ohmura, Hiroshi; Ishizaki, Akira; Akashi, Akira; a Ohtaka, Keiji, 4,688,920, Cl. 354-406.000.

Suda, Yasuo; Akashi, Akira; and Hiramatsu, Akira, 4,709,1 C 250-201.000.

Sueda, Tetsuo; and Yoshii, Minoru, 4,641,962, Cl. 356-124.00

Sueda, Tetsuo; Tokuhara, Mitsuhiro; and Baba, Takeshi, 4,67 Cl. 355-56.000.

Sueda, Tetsuo; and Ando, Toshinori, 4,698,511, Cl. 250-560.00

Suematsu, Koshi; Takenouchi, Masanori; Urawa, Motoo; a Ikeda, Takeshi, 4,666,814, Cl. 430-126.000.

Suematsu, Koshi; and Imai, Eiichi, 4,680,245, Cl. 430-110.000.

Sugita, Yasutoshi, 4,682,242, Cl. 358-285.000.

Sugita, Yasutoshi, 4,705,958, Cl. 250-578.000.

Sugitani, Hiroshi, 4,689,642, Cl. 346-140.00R.

Sugitani, Hiroshi; Ozawa, Masakazu; Matsuda, Hiroto; Ike Masami; and Matsumoto, Haruyuki, 4,701,766, Cl. 346-1.10

Sugiura, Susumu; and Sato, Tadashi, 4,659,210, Cl. 355-14.00R.

Sugiura, Susumu; Sugino, Takashi; and Hirose, Naoya, 4,67 Cl. 358-80.000.

Sugiura, Susumu; and Kohzato, Yasuo, 4,683,492, Cl. 358-80.00

Sugiyama, Hiroshi, 4,700,238, Cl. 358-300.000.

Suwa, Kaname, 4,638,151, Cl. 235-145.00R.

Suwa, Kaname, 4,675,787, Cl. 361-401.000.

Suwa, Kaname, 4,681,987, Cl. 200-5.00A.

Suzuki, Akira, 4,673,281, Cl. 355-14.00R.

Suzuki, Akiyoshi; and Ina, Hideki, 4,634,240, Cl. 350-508.00

Suzuki, Akiyoshi; and Ina, Hideki, 4,641,035, Cl. 250-548.00

Suzuki, Akiyoshi; and Ina, Hideki, 4,645,924, Cl. 250-236.00

Suzuki, Akiyoshi, 4,655,601, Cl. 356-401.000.

Suzuki, Akiyoshi, 4,688,932, Cl. 355-51.000.

Suzuki, Eiichi, 4,695,846, Cl. 346-1.100.

Suzuki, Hidetoshi, 4,675,696, Cl. 346-46.000.

Suzuki, Hideyuki; Terada, Katsunori; Masaki, Yuichi; a Morimoto, Kenji, 4,690,880, Cl. 430-313.000.

Suzuki, Kazunori; Katsuta, Hiroo; and Toriumi, Yuki, 4,67 Cl. 156-60.000.

Suzuki, Koji, 4,663,549, Cl. 310-62.000.

Suzuki, Koji, 4,683,436, Cl. 324-458.000.

Suzuki, Masayuki; and Kawamura, Masaharu, 4,647,169, C 354-173.100.

Suzuki, Masayuki; Ohara, Tsunemasa; Tosaka, Yoichi; Kobaya Ryuichi; Harada, Yoshihito; and Kawamura, Masaha 4,659,201, Cl. 354-152.000.

Suzuki, Masayuki; Ohara, Tsunemasa; Tosaka, Yoichi; Kobaya Ryuichi; Harada, Yoshihito; and Kawamura, Masaha 4,673,272, Cl. 354-173.110.

Suzuki, Masayuki; Ohara, Tsunemasa; Tosaka, Yoichi; Kawamu Masaharu; Harada, Yoshihito; and Kobayashi, Ryuic 4,699,488, Cl. 354-173.110.

Suzuki, Nobuyuki, 4,641,937, Cl. 354-238.100.

Suzuki, Nobuyuki; and Shimizu, Masami, 4,679,926, C 354-173.110.

Suzuki, Nobuyuki; Shimizu, Masao; and Katsuragawa, Mitsuhiro, 4,713,571, Cl. 310-316.000.
Suzuki, Ryoichi; Taka, Hideo; and Tamura, Shuichi, 4,682,872, Cl. 354-403.000.
Suzuki, Tadashi, 4,682,875, Cl. 355-3.00R.
Suzuki, Takashi, 4,634,219, Cl. 350-162.220.
Suzuki, Takashi, 4,641,022, Cl. 250-204.000.
Suzuki, Takashi; Matsumura, Susumu; and Kitagishi, Nozomu, 4,650,988, Cl. 250-216.000.
Suzuki, Takashi; Matsumura, Susumu; Suzuki, Kenji; and Otaka, Keiji, 4,659,917, Cl. 250-201.000.
Suzuki, Yoshiyuki, 4,675,745, Cl. 358-285.000.
Tada, Hideki; Ito, Michio; Tanaka, Kozuki; Kume, Nobuyuki; Takei, Tetsuya; and Kisu, Hiroki, 4,674,865, Cl. 355-15.000.
Tajima, Hatsuo; Nakahata, Kimio; Egami, Hidemi; Kan, Fumitaka; and Hosoi, Atsushi, 4,669,852, Cl. 355-3.0DD.
Takagi, Hiroshi; Shinmi, Akira; and Suzuki, Kenji, 4,673,612, Cl. 428-216.000.
Takahashi, Kazuhisa; Kawasaki, Kenichi; and Itoh, Yuji, 4,698,648, Cl. 346-108.000.
Takahashi, Kazuo, 4,648,725, Cl. 384-9.000.
Takahashi, Kazuo, 4,659,225, Cl. 356-358.000.
Takahashi, Kazuyoshi; Suzuki, Koji; Nagahira, Joji; Yoshihara, Kunio; Matsui, Toshiro; and Ishikawa, Tadashi, 4,709,319, Cl. 363-49.000.
Takahashi, Kouji; and Fujiwara, Akihiro, 4,697,904, Cl. 354-403.000.
Takahashi, Masatomo, 4,663,778, Cl. 379-100.000.
Takahashi, Masatomo; and Maeda, Toru, 4,668,994, Cl. 358-256.000.
Takahashi, Sadatoshi; Asano, Toshiaki; Tsuji, Sadahiko; Fujibayashi, Kazuo; and Kato, Masatake, 4,653,874, Cl. 350-427.000.
Takahashi, Sadatoshi; Kato, Masatake; and Tsuji, Sadahiko, 4,687,303, Cl. 350-427.000.
Takahashi, Sadatoshi; and Tanaka, Tsunefumi, 4,690,513, Cl. 350-427.000.
Takahashi, Shinkichi, 4,657,377, Cl. 355-14.00R.
Takahashi, Terumi; and Sato, Tadashi, 4,713,698, Cl. 358-296.000.
Takahata, Naomi, 4,688,786, Cl. 271-294.000.
Takano, Katsuhiko; Yoshihara, Satoshi; Iijima, Shigeharu; Sasamori, Eizo; Matsushima, Masaaki; and Kishi, Hiroyoshi, 4,710,418, Cl. 428-192.000.
Takasu, Yoshio; Oguchi, Yoshihiro; and Katagiri, Kazuharu, 4,693,951, Cl. 430-31.000.
Takayama, Kenzo, 4,701,043, Cl. 355-3.0DD.
Takayama, Makoto, 4,665,446, Cl. 360-62.000.
Takayama, Makoto, 4,679,072, Cl. 358-80.000.
Takayama, Makoto; and Sakurada, Nobuaki, 4,706,132, Cl. 358-336.000.
Takayama, Nobutoshi, 4,644,413, Cl. 360-10.200.
Takayama, Nobutoshi; and Takahashi, Kouji, 4,669,005, Cl. 360-77.000.
Takayama, Nobutoshi; Harigaya, Isao; and Nagasawa, Kenichi, 4,675,753, Cl. 360-27.000.
Takayama, Nobutoshi, 4,680,648, Cl. 360-10.200.
Takayama, Tsutomu; Hashimoto, Seiji; Kaji, Toshio; Suzuki, Masao; and Tojo, Akihiko, 4,682,232, Cl. 358-172.000.
Takayanagi, Yoshiaki, 4,645,982, Cl. 315-307.000.
Takayanagi, Yoshiaki; Ishida, Masato; and Miura, Makoto, 4,684,239, Cl. 355-14.00R.
Takeda, Hiroaki; and Ishida, Masato, 4,647,185, Cl. 355-14.00D.
Takeda, Masami, 4,695,421, Cl. 264-318.000.
Takei, Masahiro; and Kozuki, Susumu, 4,646,139, Cl. 358-44.000.
Takei, Masahiro; Kozuki, Susumu; Masui, Toshiyuki; Hirasawa, Masahide; and Kashida, Motokazu, 4,696,008, Cl. 371-47.000.
Takeuchi, Akihiko, 4,641,158, Cl. 346-160.000.
Takeuchi, Akihiko, 4,709,250, Cl. 346-160.000.
Takimoto, Hiroyuki, 4,683,503, Cl. 360-64.000.
Takimoto, Hiroyuki, 4,686,589, Cl. 360-77.000.
Tamamura, Hideo, 4,634,253, Cl. 354-403.000.
Tamamura, Hideo, 4,666,275, Cl. 354-126.000.
Tamamura, Hideo; and Maeno, Hiroshi, 4,668,061, Cl. 354-64.000.
Tamamura, Hideo, 4,697,897, Cl. 354-64.000.
Tamamura, Hideo; and Maeno, Hiroshi, 4,714,333, Cl. 354-64.000.
Tamura, Katsuhide, 4,647,402, Cl. 252-511.000.
Tamura, Shuichi, 4,652,107, Cl. 354-403.000.
Tamura, Yasuyuki; Kaneko, Shuzo; and Takahashi, Tohru, 4,649,094, Cl. 430-126.000.
Tanaka, Hidetoshi, 4,674,866, Cl. 355-23.000.
Tanaka, Kanou; Konishi, Motofumi; Ando, Yoshio; Iwaya, Toshio; Kotera, Masahide; Hashimoto, Norio; Sugita, Yasutoshi; Sano, Yoshitaka; and Ono, Satoshi, 4,658,299, Cl. 358-256.000.
Tanaka, Katsuhiko; and Fukumoto, Hiroshi, 4,710,443, Cl. 430-106.600.
Tanaka, Kazuo; and Tajima, Akira, 4,682,860, Cl. 350-423.000.
Tanaka, Kazuo, 4,710,007, Cl. 354-286.000.
Tanaka, Shigemori, 4,675,262, Cl. 430-58.000.
Tanaka, Shinya, 4,640,588, Cl. 350-516.000.
Tanaka, Tsunefumi; Ikemori, Keiji; Kitagishi, Nozomu; Takahashi, Sadatoshi; and Momiyama, Kikuo, 4,666,257, Cl. 350-427.000.
Tanaka, Tsunefumi, 4,716,284, Cl. 250-201.000.
Taniguchi, Osamu; Okada, Shinjiro; and Ando, Yujiro, 4,712,878, Cl. 350-350.00S.
Taniguchi, Yasushi, 4,643,518, Cl. 350-6.800.
Tanioka, Hiroshi; Yamakawa, Tadashi; Inoue, Yutaka; Hosaka, Masao; Yagasaki, Toshiaki; Kasama, Nobuhiro; and Karata, Mitsuru, 4,646,249, Cl. 364-518.000.
Tanioka, Hiroshi; and Ueda, Noriyoshi, 4,684,998, Cl. 358-293.000.
Tanioka, Hiroshi, 4,698,690, Cl. 358-283.000.
Tanioka, Hiroshi; Ogino, Yoshitaka; Inoue, Yutaka; Naito, Masataka; and Hayakawa, Kimiaki, 4,706,128, Cl. 358-286.000.
Tanioka, Hiroshi, 4,709,274, Cl. 358-283.000.
Tanioka, Hiroshi; and Honma, Toshio, 4,711,558, Cl. 355-14.00R.
Tateoka, Masamichi, 4,634,232, Cl. 350-394.000.
Tateoka, Masamichi, 4,635,243, Cl. 369-44.000.
Tateoka, Masamichi, 4,661,858, Cl. 358-284.000.
Tateoka, Masamichi; and Ando, Toshinori, 4,674,825, Cl. 350-6.800.
Tateoka, Masamichi; and Yano, Hideaki, 4,682,316, Cl. 369-46.000.
Tazaki, Shigemitsu, 4,651,175, Cl. 346-140.00R.
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Tazawa, Shigemoto; and Ayata, Naoki, 4,641,071, Cl. 318-640.000.
Terasawa, Koji, 4,636,814, Cl. 346-140.00R.
Terasawa, Koji, 4,656,490, Cl. 346-140.00R.
Terasawa, Koji, 4,682,184, Cl. 346-140.00R.
Terasawa, Koji, 4,695,851, Cl. 346-140.00R.
Tezuka, Nobuo, 4,661,868, Cl. 360-96.600.
Tezuka, Nobuo, 4,679,101, Cl. 360-60.000.
Tezuka, Nobuo, 4,716,481, Cl. 360-106.000.
Toda, Katuhiko; and Sugiura, Susumu, 4,676,605, Cl. 350-429.000.
Toda, Takao; Mizushima, Toshiaki; and Kashiwagi, Kazuo, 4,665,318, Cl. 250-570.000.
Toganoh, Shigeo; Arai, Ryuichi; and Sakaki, Mamoru, 4,636,805, Cl. 346-1.100.
Toganoh, Shigeo; and Arai, Ryuichi, 4,642,654, Cl. 346-1.100.
Toganoh, Shigeo; Matsufuji, Yohji; and Ichihashi, Hiroo, 4,658,272, Cl. 346-140.00R.
Toganoh, Shigeo; Matsufuji, Yohji; and Ichihashi, Hiroo, 4,694,307, Cl. 346-140.00R.
Tokuda, Ryuji; Harunari, Yoshihiro; and Kobe, Takashi, 4,701,048, Cl. 356-1.000.
Tokuda, Waher; and Takagi, Atushi, 4,682,882, Cl. 355-14.00D.
Tokumitsu, Jun; and Sakata, Hajime, 4,707,743, Cl. 358-213.130.
Tokura, Go; Arakawa, Kazuhiko; and Terashima, Jun, 4,716,259, Cl. 174-68.500.
Tomita, Yasuo; Ogura, Shigetaro; and Matsumoto, Kazuya, 4,637,684, Cl. 350-96.190.
Tomita, Yasuo, 4,639,816, Cl. 360-131.000.
Tomita, Yasuo, 4,649,451, Cl. 360-131.000.
Tomosada, Masahiro; Miyata, Masanori; Adachi, Hideki; and Sato, Yukio, 4,674,863, Cl. 355-14.00E.
Torigoe, Makoto; Kohno, Michio; and Suzuki, Akiyoshi, 4,653,903, Cl. 355-53.000.
Torigoe, Makoto, 4,682,885, Cl. 355-67.000.
Torigoe, Makoto; Suzuki, Akiyoshi; and Sakai, Terumasa, 4,711,568, Cl. 355-68.000.
Toriumi, Yuki; Suzuki, Kazunori; and Katsuta, Hiroo, 4,643,579, Cl. 356-401.000.
Tosaka, Yoichi; and Shimizu, Masami, 4,710,008, Cl. 354-289.100.
Totsuka, Masao, 4,651,009, Cl. 250-442.100.
Totsuka, Masao; and Suzuki, Akiyoshi, 4,659,228, Cl. 356-401.000.
Toyama, Masamichi; Kaneda, Naoya; and Fujibayashi, Kazuo, 4,682,886, Cl. 356-1.000.
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Toyoda, Yasuhiro; Shimada, Fumio; and Yoshida, Katsumi, 4,660,952, Cl. 354-246.000.
Toyoda, Yasuhiro, 4,671,637, Cl. 354-234.100.
Toyoda, Yasuhiro; Shimada, Fumio; and Yoshida, Katsumi, 4,692,009, Cl. 354-246.000.
Tsuboyama, Akira; Inaba, Yutaka; and Kitayama, Hiroyuki, 4,674,839, Cl. 350-334.000.
Tsuboyama, Akira; Katagiri, Kazuharu; and Kanbe, Junichiro, 4,712,875, Cl. 350-344.000.
Tsuchiya, Hiroaki; and Nakahata, Kimio, 4,672,505, Cl. 361-235.000.
Tsuchiya, Hiroaki; Tanaka, Kazuki; and Osawa, Keishi, 4,680,669, Cl. 361-230.000.
Tsuda, Shin, 4,672,460, Cl. 358-257.000.
Tsuda, Tadayuki; and Kurematsu, Katsumi, 4,702,591, Cl. 355-15.000.
Tsuji, Sadahiko; and Takahashi, Sadatoshi, 4,659,187, Cl. 350-427.000.
Tsuji, Sadahiko, 4,673,262, Cl. 350-538.000.
Tsuji, Sadahiko; Takahashi, Sadatoshi; and Fujibayashi, Kazuo, 4,696,553, Cl. 350-427.000.
Tsuji, Sadahiko, 4,708,444, Cl. 350-427.000.
Tsunekawa, Tokuichi, 4,639,924, Cl. 372-33.000.
Tsunekawa, Tokuichi; Sato, Yuichi; Kawabata, Takashi; and Matsumura, Susumu, 4,642,451, Cl. 250-201.000.
Tsunekawa, Tokuichi; Kawabata, Takashi; Sato, Yuichi; and Matsumura, Susumu, 4,644,149, Cl. 250-214.00A.
Tsunekawa, Tokuichi; Hosoe, Kazuya; Kinoshita, Takao; Kawabata, Takashi; Sakai, Shinji; and Taguchi, Tatsuya, 4,647,174, Cl. 354-402.000.
Tsunekawa, Tokuichi, 4,652,109, Cl. 354-432.000.
Tsunekawa, Tokuichi; Date, Nobuaki; Aizawa, Hiroshi; Hosoe, Kazuya; and Urushibara, Kazunori, 4,658,304, Cl. 358-310.000.
Tsunekawa, Tokuichi; Sato, Yuichi; and Kawabata, Takashi, 4,672,189, Cl. 250-201.000.

Tsunekawa, Tokuichi; Sato, Yuichi; Kawabata, Takashi; and Matsumura, Susumu, 4,687,914, Cl. 250-201.000.
Tsunekawa, Tokuichi, 4,704,024, Cl. 354-432.000.
Tsunekawa, Tokuichi; and Sato, Yuichi, 4,712,136, Cl. 358-213.150.
Tsunekuni, Masao; and Ishizawa, Yasuhisa, 4,712,100, Cl. 340-710.000.
Tsunoi, Haruo, 4,693,548, Cl. 350-96.130.
Uchidoi, Masanori; and Suzuki, Nobuyuki, 4,681,441, Cl. 356-222.000.
Uchikata, Yoshio; Nozaki, Mineo; Asakura, Osamu; and Nagashima, Masasumi, 4,639,744, Cl. 346-76.0PH.
Uchikata, Yoshio; Nozaki, Mineo; Asakura, Osamu; and Nagashima, Masasumi, 4,672,393, Cl. 346-76.0PH.
Uchikata, Yoshio; Nozaki, Mineo; Asakura, Osamu; and Nagashima, Masasumi, 4,676,683, Cl. 400-656.000.
Uchikata, Yoshio; Nozaki, Mineo; Nagashima, Masasumi; and Asakura, Osamu, 4,709,242, Cl. 346-76.0PH.
Uchiyama, Takashi; Suzuki, Ryoichi; and Nakamura, Zenzo, 4,669,850, Cl. 354-416.000.
Uda, Koji; Oda, Kazuyuki; and Ayata, Naoki, 4,669,867, Cl. 355-53.000.
Ueda, Hiroyuki; and Kobata, Yoshihiro, 4,690,575, Cl. 400-166.000.
Ueda, Noriyoshi; and Kitajima, Tadayuki, 4,660,957, Cl. 355-3.0SH.
Ueda, Sigel; Matsumoto, Kozo; Kanaiwa, Kiyoshi; and Adachi, Muneo, 4,701,746, Cl. 340-347.0DD.
Uehara, Haruo; and Omata, Hiroshi, 4,716,06ɔ Cl. 428-65.000.
Uehara, Tsukasa, 4,716,477, Cl. 360-97.000.
Umehara, Shoji; Matsumoto, Masakazu; Takiguchi, Takao; Yamashita, Masataka; and Ishikawa, Shozo, 4,666,810, Cl. 430-71.000.
Usami, Akihiro; and Tokuhara, Mitsuhiro, 4,634,233, Cl. 350-413.000.
Usami, Akihiro, 4,702,590, Cl. 355-14.00C.
Usui, Masayuki; Imataki, Hiroyuki; Serizawa, Takashi; Baba, Takeshi; and Nose, Hiroyasu, 4,714,326, Cl. 350-485.000.
Wakamiya, Katsutoshi; Matsumoto, Toru; and Yamazaki, Masuo, 4,656,111, Cl. 430-109.000.
Wakamiya, Katsutoshi; Matsumoto, Toru; and Yamazaki, Masuo, 4,661,430, Cl. 430-120.000.
Watanabe, Kenjiro, 4,635,080, Cl. 346-140.00R.
Watanabe, Yoshitaka; Mamiya, Toshiharu; Ishikawa, Tadashi; and Endo, Takashi, 4,698,650, Cl. 346-134.000.
Watanabe, Yoshitaka; Sakurada, Nobuaki; Kawamura, Hideaki; and Sato, Yuichi, 4,713,746, Cl. 346-1.100.
Watanabe, Youichi, 4,689,528, Cl. 318-594.000.
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Yagasaki, Toshiaki; Kuroda, Kouki; and Inuzuka, Tsuneki, 4,656,338, Cl. 219-497.000.
Yagasaki, Toshiaki; Masuda, Shunichi; and Sato, Yukio, 4,669,862, Cl. 355-14.00R.
Yaguchi, Tatsuya, 4,679,093, Cl. 358-257.000.
Yamada, Akira, and Tokura, Go, 4,681,421, Cl. 354-485.000.
Yamada, Masanori, 4,673,845, Cl. 315-241.00P.
Yamada, Masanori, 4,710,012, Cl. 354-415.000.
Yamada, Yasuyuki; Sato, Yasuhisa; Nakayama, Hiroki; and Oizumi, Kouji, 4,643,536, Cl. 350-422.000.
Yamada, Yasuyuki; Sato, Yasuhisa; Nakayama, Hiroki; and Oizumi, Kouji, 4,702,581, Cl. 354-126.000.
Yamada, Yasuyuki; Fujibayashi, Kazuo; Sato, Yasuhisa; and Yokota, Hideo, 4,715,692, Cl. 350-422.000.
Yamakawa, Tadashi; Inoue, Yutaka; Satomura, Hiroshi; and Yano, Hideaki, 4,651,176, Cl. 346-160.000.
Yamakawa, Tadashi, 4,672,677, Cl. 382-13.000.
Yamakawa, Tadashi, 4,700,206, Cl. 346-160.000.
Yamakawa, Tadashi, 4,706,130, Cl. 358-296.000.
Yamamoto, Hiroshi; and Akashi, Akira, 4,705,380, Cl. 354-402.000.
Yamamoto, Mitsuru; Watanabe, Kunio; and Shimoda, Junji, 4,639,735, Cl. 346-1.100.
Yamamoto, Mitsuru, 4,639,746, Cl. 346-140.00R.
Yamamoto, Mitsuru; Sakurada, Nobuaki; and Watanabe, Yoshitaka, 4,714,935, Cl. 346-140.00R.
Yamamoto, Yasuhiro, 4,704,019, Cl. 353-27.00R.
Yano, Yasuhiro; Haruta, Masahiro; and Hara, Toshitami, 4,675,693, Cl. 346-1.100.
Yashiki, Yuichi, 4,657,835, Cl. 430-60.000.
Yasumura, Hiroto; Kozuki, Susumu; and Takei, Masahiro, 4,692,914, Cl. 369-49.000.
Yokoi, Katsuyuki, 4,660,056, Cl. 346-140.00R.
Yokomizo, Yoshikazu, 4,667,237, Cl. 358-160.000.
Yokomizo, Yoshikazu, 4,673,972, Cl. 358-77.000.
Yokomizo, Yoshikazu, 4,716,471, Cl. 358-296.000.
Yokono, Koujiro; Kamio, Masaru; and Ohkubo, Yukitoshi, 4,714,636, Cl. 428-1.000.
Yokota, Masami; Sugitani, Hiroshi; and Inamoto, Tadayoshi, 4,666,823, Cl. 430-320.000.
Yomoda, Minoru; and Yamamura, Mitsugu, 4,669,842, Cl. 353-101.000.
Yoshida, Akio, 4,666,253, Cl. 350-334.000.
Yoshida, Eiichi, 4,672,461, Cl. 358-280.000.
Yoshida, Masaaki; Yoshikawa, Ryoichi; Nagase, Naoki; and Yamada, Masanori, 4,656,466, Cl. 340-716.000.
Yoshida, Shozo; and Ohmura, Hiroshi, 4,673,276, Cl. 354-430.000.
Yoshida, Tadashi, 4,689,694, Cl. 358-298.000.
Yoshida, Tadashi, 4,700,399, Cl. 382-17.000.
Yoshida, Takehiro, 4,677,660, Cl. 379-100.000.
Yoshihara, Toshiyuki; Hiro, Masaaki; and Watanabe, Katsunori, 4,716,091, Cl. 430-66.000.
Yoshikawa, Junichi; and Rachi, Masahiro, 4,712,000, Cl. 250-205.000.
Yoshimura, Shigeru; Suzuki, Tetsuo; and Takemura, Makoto, 4,692,778, Cl. 346-145.000.
Yoshino, Toshihiko; and Tomita, Yasuo, 4,660,187, Cl. 369-13.000.
Yoshioka, Kiyoharu; Hashimoto, Norio; and Sonobe, Hiraku, 4,700,237, Cl. 358-287.000.
* Yui, Yoshikiyo, 4,713,675, Cl. 355-69.000.

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  Hanamori, Ryoichi; Nakashima, Shigeo; and Yamamoto, Hiroshi, 4,693,580, Cl. 354-271.100.
Canosa, Joseph F. Dishwashing apparatus. 4,638,826, 1-27-87, Cl. 134-100.000.
Canova, Levy A.; DePasquale, Ralph J.; and Wilson, Michael E., to SCM Corporation. Method for waterproofing silica-ceramic insulation bodies. 4,649,063, 3-10-87, Cl. 427-230.000.
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  Gruhn, Joel D.; Canrobert, Mark R.; and Nelson, Robert E., 4,661,406, Cl. 428-397.000.
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  von Beckmann, Helmuth; and Reeves, Edwin H., 4,658,730, Cl. 104-8.000.
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  Cant, Peter R., 4,640,784, Cl. 210-776.000.
Cant, Peter R., to Cant Investments Pty. Limited. Method and apparatus for cleaning swimming pools. 4,640,784, 2-3-87, Cl. 210-776.000.
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  Lazar, Stanley, 4,698,109, Cl. 156-145.000.
Cantatore, Giuseppe, to Ciba-Geigy Corporation. Use of dipiperidine di-carbamates as stabilizers for synthetic polymers. 4,695,599, 9-22-87, Cl. 524-103.000.
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  Frei, Siegfried, 4,635,841, Cl. 228-147.000.
Cantello, Barrie C. C., to Beecham Group p.l.c. Morpholine derivatives, compositions and method of use. 4,665,072, 5-12-87, Cl. 514-237.000.
Cantello, Giuseppe; and Concari, Severino, to Ing. C. Olivetti & C. S.p.A. Apparatus for recording and reading binary information on a magnetic disc. 4,683,504, 7-28-87, Cl. 360-78.000.
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Cantello, Maichi: *See—*
  Delle Piane, Alberto; Sartorio, Franco; Cantello, Maichi; and Ghiringhello, Guglielmo, 4,682,002, Cl. 219-121.0LD.
  Mattei, Riccardo; Neri, Armando; Gobbi, Santo R.; and Cantello, Maichi, 4,633,891, Cl. 131-281.000.
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Cantenot, Laurence. Extraction device, particularly for silos with a circular floor. 4,655,666, 4-7-87, Cl. 414-310.000.
Canter, Stanley; Warg, Paul A.; and Brooks, Forrest E., to ITT Corporation. Illumination for a scattering type liquid crystal display. 4,668,049, 5-26-87, Cl. 350-345.000.
Canter, Stanton J., to Diversified Group, Inc. Packaging and display container. 4,646,921, 3-3-87, Cl. 211-126.000.
Canterino, Peter J.; Dobreski, David V.; and Shaw, Richard G., to Mobil Oil Corporation. Films of blends of linear ethylene polymers and aromatic polymers. 4,716,201, 12-29-87, Cl. 525-240.000.
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  Bahl, Surinder K.; Canterino, Peter J.; and Shaw, Richard G., 4,692,496, Cl. 525-240.000.
Cantineau, Bertrand J., to Westinghouse Electric Corp. Moisture separator for steam generator level measurement system. 4,716,014, 12-29-87, Cl. 376-371.000.
Canton, Dave A.: *See—*
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Canton, David A.; Holloway, Brian L.; Sargeant, Nicholas B.; and Llewelyn, Roger J., to International Business Machines Corporation. Data display apparatus with character refresh buffer and row buffers. 4,649,379, 3-10-87, Cl. 340-750.000.
Cantoni, Angelo, to Ital Idee s.r.l. Fuel feed device, particularly fo diesel engines, with fuel filtering, heating and emulsifying member 4,664,088, 5-12-87, Cl. 123-557.000.
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Cantor, Eugene; and Farrand, Thomas A., to United Technologi Corporation. Anti-rotation feature for a turbine rotor facepla 4,701,105, 10-20-87, Cl. 416-95.000.
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  Roule, Richard L.; and Cantor, Joshua C., 4,715,623, C 283-91.000.
Cantor, Stephen E., to Uniroyal Chemical Company, Inc. Adhes package. 4,671,996, 6-9-87, Cl. 428-343.000.
Cantou, Christian: *See—*
  Arragon, Jean-Pierre; Cantou, Christian; and Marie, Gerard J. 4,649,419, Cl. 380-20.000.

Cantrell, C. D., III; and Peterson, G. L., to Board of Regents, The University of Texas System. Method and apparatus for laser isotope separation. 4,690,742, 9-1-87, Cl. 204-157.200.

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Cantrell, Larry K.; and Smith, Edwin J., to Grant Machinery Inc. Paperboard sheet feeder. 4,715,596, 12-29-87, Cl. 271-116.000.

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  Dameron, Woodal W., 4,689,855, Cl. 17-11.000.

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  Kirchner, Tommy L.; Vargo, George F., Jr.; and Cantrell, Steven C., 4,665,519, Cl. 370-94.000.

Cantu-Garcia, Rolando; and Marroquin-Garza, Elio, to Vidriera Monterrey, S.A. System and method for the internal cooling of hot molds. 4,668,269, 5-26-87, Cl. 65-68.000.

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Cantwell, Robert H., to Raytheon Company. Method and apparatus for determining the magnitude of a square root of a sum of squared value using vernier addressing. 4,694,417, 9-15-87, Cl. 364-752.000.

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  Hansen, Ralph H., 4,687,797, Cl. 524-94.000.

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  Wu, Che-Kuang, 4,670,366, Cl. 430-13.000.

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  Poloni, Alfredo; Drigani, Fausto; and Canzutti, Roberto, 4,714,355, Cl. 384-193.000.

Cao, Chi-Thuan; Janetzke, Helmut; Cordes, Henning; and Kauff, Helmut, to Robert Bosch GmbH. Speed control for motor vehicles with microcomputer step-by-step control. 4,677,560, 6-30-87, Cl. 364-431.070.

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  Beardmore, Geoffrey; and Capaldi, Nicholas R., 4,633,722, Cl. 74-5.460.

Capano, Paul J.: *See—*

  Farris, Edward T.; Barsa, John J.; Lagow, Richard J.; and Capano, Paul J., 4,673,355, Cl. 433-218.000.

Capasso, Federico; Cho, Alfred Y.; Hutchinson, Albert L.; and Mohammed, Khalid, to American Telephone and Telegraph Company, AT&T Bell Laboratories. Superlattice photoconductor. 4,679,061, 7-7-87, Cl. 357-4.000.

Capasso, Federico; and Cho, Alfred Y., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Heterojunction semiconductor devices having a doping interface dipole. 4,686,550, 8-11-87, Cl. 357-16.000.

Capasso, Federico; and Tsang, Won-Tien, to American Telephone and Telegraph Company, AT&T Bell Laboratories. Sawtooth photodetector. 4,694,318, 9-15-87, Cl. 357-30.000.

Capasso, Federico; and Luryi, Sergey, to American Telephone and Telegraph Company, AT&T Bell Laboratories. Negative transconductance device. 4,704,622, 11-3-87, Cl. 357-4.000.

Capasso, Vincent; and Kalck, Charles W., Sr., to Kalck, Charles W., Sr.; and Kalck, Kathy. Fire-sprinkler cut-off device. 4,538,866, 1-27-87, Cl. 169-90.000.

Capasso, Vincent, to Fire Sprinkler Specialties, Inc. Shut-off device for a sprinkler assembly. 4,676,320, 6-30-87, Cl. 169-90.000.

Capdebosc, Bernard, to Martin S.A. Machine having a plurality of working stations for successively processing a sheet of material running through the machine. 4,711,172, 12-8-87, Cl. 101-152.000.

Capdepuy, Bernard: *See—*

  Minjolle, Louis; Drouet, Claudette; Hordonneau, Alain; and Capdepuy, Bernard, 4,696,710, Cl. 156-89.000.

Cape Building Products Limited: *See—*

  Harper, Stephen; and Hiscock, David G., 4,637,860, Cl. 162-117.000.

Cape Cod Research, Inc.: *See—*

  Walsh, Myles A., III; and Morris, R. Scott, 4,690,741, Cl. 204-149.000.

Cape, John A.: *See—*

  McLeod, Paul S.; Cape, John A.; Fraas, Lewis M.; and Partain, Larry D., 4,658,086, Cl. 136-249.000.

Capecchi, Mario R.: *See—*

  Sharp, Phillip A.; Capecchi, Mario R.; RajBhandary, Uttam L.; Laski, Frank A.; and Hudziak, Robert M., 4,687,737, Cl. 435-68.000.

Capek, George, to Weinschel Engineering. Load-bearing detent mechanism. 4,684,905, 8-4-87, Cl. 333-81.00R.

Capel, Ifor D., to Zion Foundation. Method and treatment with transcranially applied electrical signals. 4,646,744, 3-3-87, Cl. 128-423.00R.

Capellari, Elio; Monteferrario, Luciano; and Wullschleger, Carlo, to Limaverne Investment Limited. Adjustable headlight. 4,675,793, 6-23-87, Cl. 362-66.000.

Capelle, Anthony: *See—*

  Barthell, Eduard; Capelle, Anthony; Chmelir, Miroslav; and Dahmen, Kurt, 4,663,491, Cl. 585-3.000.

Capelle, Catherine L. Waist band for women's garments. 4,688,271, 8-25-87, Cl. 2-220.000.

Capelle, Gerd, to Herman Berstorff Maschinenbau GmbH. Screw extrusion press having barrel temperature control means. 4,643,660, 2-17-87, Cl. 425-190.000.

Capelle, Gerd, to Hermann Berstorff Maschinenbau GmbH. Extrusion head for producing flat profiles from rubber or plastics material. 4,653,994, 3-31-87, Cl. 425-131.100.

Capelle, Gerd, to Hermann Berstorff Maschinenbau GmbH. Method for monitoring deviations in the dimensions of a continuously extruded profile strip. 4,680,152, 7-14-87, Cl. 264-40.400.

Capello, Giuseppe: *See—*

  Marinoni, Giorgio; and Capello, Giuseppe, 4,698,483, Cl. 219-121.0LU.

Capers, Donald L.: *See—*

  Capers, Jerry W.; Capers, Donald L.; and Capers, Douglas W., 4,678,392, Cl. 414-563.000.

Capers, Douglas W.: *See—*

  Capers, Jerry W.; Capers, Donald L.; and Capers, Douglas W., 4,678,392, Cl. 414-563.000.

Capers, Jerry W.; Capers, Donald L.; and Capers, Douglas W., to Hydra-Tech, Inc. Wheel lift for a tow truck. 4,678,392, 7-7-87, Cl. 414-563.000.

Capers, Joseph G.; and Korando, Kenneth E., to Debitek, Inc. Vending machine accessory permitting dual mode machine operation with either money or coded cards. 4,669,596, 6-2-87, Cl. 194-210.000.

Capes, Charles E.; Coleman, Richard D.; Thayer, William L.; and Puddington, Ira E., to Canadian Patents and Development Limited. Method of breaking down chemisorption bond of clay-containing heavy oil water emulsions. 4,648,962, 3-10-87, Cl. 208-188.000.

Capetronic (BSR) Ltd.: *See—*

  Ma, John; and Weiss, Steven, 4,684,858, Cl. 318-317.000.

Capewell Components Company Limited Partnership: *See—*

  Maziarz, John D., 4,684,083, Cl. 244-151.00A.

Capewell, Dennis: *See—*

  Luchaco, David O.; and Capewell, Dennis, 4,663,570, Cl. 315-219.000.

Capilla, Alejandro. Boat propelled by a motorcycle. 4,636,176, 1-13-87, Cl. 441-12.000.

Capintec, Inc.: *See—*

  Suzuki, Arata, 4,649,276, Cl. 250-361.00R.

Capista, Joe J., Jr.: *See—*

  Burgess, Lester E.; and Capista, Joe J., Jr., 4,668,193, Cl. 433-222.100.

Capitol Products Corporation: *See—*

  Dunnick, Julian S., 4,663,896, Cl. 52-71.000.

  Schmidt, Dietrich F., 4,688,366, Cl. 52-731.000.

Capitol Records: *See—*

  Hilbert, Robert S.; and Korniski, Ronald J., 4,688,906, Cl. 350-462.000.

Capitol Records, Inc.: *See—*

  Thomas, Keith E., 4,679,108, Cl. 360-130.310.

Capizzi, Amedeo; Spinelli, Pia; and Arsura, Emilio, to Montedison S.p.A. Dispenser for the slow release of volatile products. 4,715,536, 12-29-87, Cl. 239-54.000.

Capizzi, Amedeo: *See—*

  Arsura, Emilio; Capizzi, Amedeo; Cassani, Giorgio; Spinelli, Pia; and Tonini, Cristina, 4,656,032, Cl. 424-84.000.

Capizzi, Anthony, Jr., to United Technologies Corporation. Dynamic angular position sensor for a reference gear tooth. 4,687,952, 8-18-87, Cl. 307-261.000.

Capizzi, Giuseppe N.; Cianci, Cesario; and Melgara, Marcello, to CSELT-Centro Studi e Laboratori Telecomunicazioni S.p.A. Digital speech synthesizer. 4,709,340, 11-24-87, Cl. 364-513.500.

Caplin, Roger W. G.; Southern, Roderic G.; Fry, Gerald L.; and Hunt, David, to Novetta Limited. Lighting unit for liquids. 4,644,450, 2-17-87, Cl. 362-147.000.

Caplis, Thomas J.; and Zbitnoff, John, to Felco Industries, Ltd. Hydraulic excavator and compactor bucket therefor. 4,698,926, 10-13-87, Cl. 37-197.000.

Capo, Juan M.: *See—*

  Plesniarski, Edward J.; Loose, Richard D.; and Capo, Juan M., 4,642,853, Cl. 24-163.00R.

Capobianco, Paul J.; Butwell, Kenneth F.; and Kossakowski, Edward J., to Union Carbide Corporation. Mixed solvent system for treating acidic gas. 4,705,673, 11-10-87, Cl. 423-229.000.

Capobianco, Richard N.; and White, David L., to Eastman Kodak Company. Electromagnetic actuator. 4,650,307, 3-17-87, Cl. 354-234.100.

Capobianco, Richard N.; and White, David L., to Eastman Kodak Company. Moving coil electromagnetic actuator and shutter employing same. 4,671,638, 6-9-87, Cl. 354-234.100.

Capodicasa, Gaetano. Refuse treatment apparatus. 4,706,560, 11-17-87, Cl. 100-102.000.

Capone, David M., to Ametek, Inc. Flow inducer. 4,653,334, 3-31-87, Cl. 73-863.810.

Caponi, Renato: *See—*
  Calvani, Riccardo; Caponi, Renato; and Cisternino, Francesco, 4,671,657, Cl. 356-349.000.

Caporiccio, Gerardo; and Scarati, Mario A., to Montedison S.p.A. Lubricating compositions having improved film-forming properties. 4,657,687, 4-14-87, Cl. 252-54.000.

Caporossi, Adolfo; and Del Signore, Leonello, to Anic, S.p.A. Process for polymerization of vinyl chloride in suspension. 4,695,616, 9-22-87, Cl. 526-202.000.

Capowski, Robert S.; and Zimmerman, Terrence K., to International Business Machines Corp. Priority circuit for channel subsystem having components with diverse and changing requirement for system resources. 4,675,812, 6-23-87, Cl. 364-200.000.

Capp, Randolph E., to AMP Incorporated. Press fit cable termination for printed circuit boards. 4,684,200, 8-4-87, Cl. 439-387.000.

Cappe, Alain; and Nabet, Claude, to Thermababy, S.A. Apparatus for warming up and sterilizing babies bottles. 4,715,278, 12-29-87, Cl. 219-521.000.

Cappel, Bert; Knapp, Karl L.; and Jung, Adolf, to M.A.N.-Roland Druckmaschinen Aktiengesellschaft. Sheet feed drum for rotary presses. 4,690,054, 9-1-87, Cl. 101-409.000.

Cappel, James W.; and Cronemiller, Richard N., to Procter & Gamble Company, The. Mixing process for cookies with storage-stable texture variability. 4,668,522, 5-26-87, Cl. 426-94.000.

Cappio, Emilio C.; and Guerrini, Giampaolo, to Ing. C. Olivetti & C., S.p.A. Rotary optical transducer. 4,661,698, 4-28-87, Cl. 250-231.0SE.

Cappo, Raymond G., Jr.: *See—*
  Benda, Mark; Cappo, Raymond G., Jr.; Kwilos, Jerald J.; and Replogle, Joe O., 4,650,933, Cl. 379-21.000.

Cappon, Arthur M., to Raytheon Company. Shift register memory cell having a transmission gate disposed between an inverter and a level shifter. 4,651,333, 3-17-87, Cl. 377-77.000.

Capps, David F. Vibration testing apparatus. 4,643,023, 2-17-87, Cl. 73-117.300.

Capps, Grover. Surveyor's level with constant instrument height and method. 4,691,444, 9-8-87, Cl. 33-290.000.

Capps, Lloyd O. Boat trailer guide. 4,715,768, 12-29-87, Cl. 414-535.000.

Capra, Thierry; and Gerard, Philippe, to Commissariat a l'Energie Atomique. Process for producing a layer having a high magnetic anisotropy in a ferrimagnetic garnet. 4,711,694, 12-8-87, Cl. 156-603.000.

Caprathe, Bradley W.; DeWald, Horace A.; Jaen, Juan C.; and Wise, Lawrence D., to Warner-Lambert Company. Phenyl and heterocyclic tetrahydropyridyl alkoxy-benzheterocyclic compounds as antipsychotic agents. 4,704,390, 11-3-87, Cl. 514-231.000.

Capri, Albert; and Capri, Samuel C., to Games 'n Things Inc. Game board apparatus utilizing a lottery principle. 4,655,461, 4-7-87, Cl. 273-249.000.

Capri Lighting: *See—*
  Elliott, Franklin E.; and Kudishevich, Anatoly, 4,703,406, Cl. 362-365.000.

Capri, Samuel C.: *See—*
  Capri, Albert; and Capri, Samuel C., 4,655,461, Cl. 273-249.000.

Caprio, A. Ronald; Cyr, John P.; Geaghan, Bernard O.; Kotschenreuther, Paul C.; Schanin, David J.; and Salett, Ronald M., to Digital Equipment Corporation. Interchangeable interface circuit structure. 4,670,855, 6-2-87, Cl. 364-900.000.

Caprio, James A.: *See—*
  Schlett, Paul E.; Peterson, John R.; Caprio, James A.; and Kleeb, Thomas R., 4,656,146, Cl. 501-124.000.

Caprio, Joseph R.: *See—*
  Smith, Philip L.; and Caprio, Joseph R., 4,684,196, Cl. 439-411.000.

Caprioli, Pasquale L.: *See—*
  Galiasso, Roberto E.; Belandria, Jose I.; and Caprioli, Pasquale L., 4,664,782, Cl. 208-143.000.

Capriotti, Bruce W.: *See—*
  Worns, John R.; Chase, James W.; and Capriotti, Bruce W., 4,684,600, Cl. 430-271.000.

Capron, John: *See—*
  Murphy, Richard; and Capron, John, 4,673,615, Cl. 428-286.000.

Capshew, Charles E.: *See—*
  Miro, Nemesio D.; Farha, Floyd E.; and Capshew, Charles E., 4,680,351, Cl. 526-125.000.

Capsule Technology International, Ltd.: *See—*
  Lukas, Stephen, 4,705,658, Cl. 264-25.000.
  Tayebi, Amad, 4,677,812, Cl. 53-477.000.

Captive Plastics, Inc.: *See—*
  Lutz, Michael, 4,712,699, Cl. 215-329.000.

Capuano, Angelo D.; and Hallenbeck, Gordon R., to General Electric Company. Dynamoelectric machine. 4,661,734, 4-28-87, Cl. 310-89.000.

Capuano, Frank G.: *See—*
  Donohie, Paul J.; Gray, Gary L.; and Capuano, Frank G., 4,679,694, Cl. 206-611.000.

Capuano, Giuseppe. Acetic acid fermentation process and apparatus. 4,711,163, 12-8-87, Cl. 99-323.120.

Caputi, Roger W.; Pierick, Edward G.; Brumley, Dennis V.; and Kincaid, Charles B., to General Electric Company. Spent liquid organic solvent recovery system. 4,664,754, 5-12-87, Cl. 203-39.000.

Caputo, Anthony; and Culter, Gary P. Toilet hook. 4,638,515, 1-27-87, Cl. 4-661.000.

Caputo, William R.; Husson, Alan L.; and Lee, Kenneth K., to Westinghouse Electric Corp. PWM inverter. 4,656,572, 4-7-87, Cl. 363-41.000.

Capwell, Robert J.; Kaschak, Ronald A.; McBride, Donald G.; Ricken, Robert G.; and Seraphim, Donald P., to International Business Machines Corporation. Copper plating. 4,707,377, 11-17-87, Cl. 427-8.000.

Car-O-Liner Company: *See—*
  Bergstrom, Hans R., 4,690,250, Cl. 187-18.000.

Car Stackers International, Inc.: *See—*
  Van Stokes, William; and Gooch, William C., 4,674,938, Cl. 414-228.000.

Cara Corporation: *See—*
  Siska, Andrew F., Jr., 4,674,031, Cl. 364-184.000.

Carabet, George F.: *See—*
  Rotondi, Anthony J.; Mullich, Richard O.; and Carabet, George F., 4,656,849, Cl. 70-134.000.

Caracciolo, Anthony, Jr.: *See—*
  Scribner, James R.; Brown, Thomas G.; and Caracciolo, Anthony, Jr., 4,688,026, Cl. 340-572.000.

Caracini, Pietro; and Cucinotta, Luigi, to Automotive Products plc. Friction-clutch driven plate. 4,684,006, 8-4-87, Cl. 192-106.200.

Caracini, Pietro: *See—*
  Cucinotta, Luigi; and Caracini, Pietro, 4,662,497, Cl. 192-70.280.

Caracteres S.A.: *See—*
  Bauer, Eric, 4,700,625, Cl. 101-93.050.

Caradot, Patrice, to Razel Freres SA; and Societe de Material de Manutention et de Consassage. Self-contained mobile crushing station. 4,676,688, 6-30-87, Cl. 404-91.000.

Caragata, John P. Critical wind direction indicator. 4,669,304, 6-2-87, Cl. 73-188.000.

Caraluzzi, Mark: *See—*
  Cardullo, Mario; Caraluzzi, Mark; and Schildbach, Peter, 4,649,056, Cl. 426-509.000.

Caramaschi, Vittorio: *See—*
  Castelli, Pierluigi; and Caramaschi, Vittorio, 4,652,211, Cl. 416-140.000.

Carangelo, Robert M.: *See—*
  Solomon, Peter R.; Carangelo, Robert M.; and Best, Philip E., 4,652,755, Cl. 250-341.000.

Caraway, Bobby L.: *See—*
  Caraway, Miles F.; and Caraway, Bobby L., 4,697,639, Cl. 166-82.000.

Caraway, Miles F.; and Caraway, Bobby L., to Fire-Fox International Inc. Blow-out protector and fire control system for petroleum exploration. 4,697,639, 10-6-87, Cl. 166-82.000.

Carbaugh, John E.: *See—*
  Maloney, Bernard A.; and Carbaugh, John E., 4,636,376, Cl. 423-475.000.

Carbert, Hugh E.: *See—*
  Carbert, Ralph E., 4,660,729, Cl. 212-149.000.

Carbert, Ralph E., to Carbert, Hugh E. Method and apparatus for preventing boom overload. 4,660,729, 4-28-87, Cl. 212-149.000.

Carbide Blast Joints, Inc.: *See—*
  Kuhne, Karl F., 4,635,968, Cl. 285-45.000.

Carbide International Inc.: *See—*
  Breitenstein, Charles T.; and Holecek, Allen R., 4,680,896, Cl. 51-215.0UE.

Carbocol Inc.: *See—*
  Stofko, John, 4,654,259, Cl. 428-326.000.

Carbolux S.p.A.: *See—*
  De Bernardi, Stefano, 4,661,186, Cl. 156-230.000.

Carbomedics, Inc.: *See—*
  Bokros, Jack, 4,689,046, Cl. 623-2.000.
  Bokros, Jack C., 4,639,247, Cl. 604-175.000.
  Bokros, Jack C., 4,692,165, Cl. 623-2.000.
  Ellis, Willard H., 4,648,391, Cl. 128-132.00R.

Carbon Fuels Corporation: *See—*
  Meyer, Edmond G.; and Meyer, Lee G., 4,671,800, Cl. 44-51.000.
  Meyer, Edmond G.; and Meyer, Lee G., 4,685,936, Cl. 44-51.000.
  Meyer, Edmond G.; and Meyer, Lee G., 4,702,747, Cl. 44-51.000.
  Meyer, Edmond G.; and Meyer, Lee G., 4,704,134, Cl. 44-51.000.

Carbonaro, Antonio; and Ferraro, Domenico, to Enichem Elastomeri S.p.A. Isoprene polymerization process. 4,696,984, 9-29-87, Cl. 526-98.000.

Carbonaro, Antonio; Gordini, Silvano; and Cucinella, Salvatore, to Enichem Elastomeri S.p.A. Process for the polymerization or copolymerization of butadiene. 4,710,553, 12-1-87, Cl. 526-142.000.

Carbonaro, Antonio: *See—*
  Gordini, Silvano; Carbonaro, Antonio; and Spina, Stanislao, 4,699,960, Cl. 526-81.000.

Carbone, Douglas C.; and Dennis, Philip J., to GTE Products Corporation. Miniaturized circuit breaker. 4,636,766, 1-13-87, Cl. 337-368.000.

Carbone, Douglas C., to GTE Products Corporation. Bimetal circuit breaker. 4,663,606, 5-5-87, Cl. 337-94.000.

Carbone, Mark S.: *See—*
  Winter, Scott H.; and Carbone, Mark S., 4,635,449, Cl. 62-467.000.

Carbonneau, Raymond; and Dubois, Jacques, to Canada, Her Majesty the Queen in right of. Gun muzzle reference system. 4,665,795, 5-19-87, Cl. 89-41.030.

Carborundum Abrasives Company: *See—*
  Schweyen, Paul R., 4,663,223, Cl. 428-240.000.

Carbotek, Inc.: *See—*
  Stahl, Charles R.; Gibson, Michael A.; and Knudsen, Christian W., 4,694,907, Cl. 166-303.000.

Carboxyque Francaise: *See—*
  Gibot, Claude, 4,644,754, Cl. 62-62.000.
  Gibot, Claude; and Charles, Jean-Michel, 4,707,951, Cl. 51-410.000.

Carbrey, Robert L., to American Telephone and Telegraph Company, and AT&T Information Systems Inc. Switched capacitor coupled line receiver circuit. 4,651,134, 3-17-87, Cl. 340-425.000.

Carbrey, Robert L., to American Telephone and Telegraph Company; and AT&T Information Systems Inc. Switched capacitor coupled line receiver circuit. 4,656,661, 4-7-87, Cl. 379-399.000.

Carcey, Jacques, to Commissariat a l'Energie Atomique. Double face abrading machine and device for transmitting current and fluid between a rotary structure and a non-rotary structure. 4,665,658, 5-19-87, Cl. 51-120.000.

Carciello, Neal R.: *See—*

Sugama, Toshifumi; Kukacka, Lawrence E.; and Carciello, Neal R., 4,659,395, Cl. 148-6.15Z.

Card, Benjamin D., to Akzo N.V. Pressure filtration system. 4,643,981, 2-17-87, Cl. 436-500.000.

Card Carriers (Manufacturing) (Proprietary) Limited: *See—*

Prinsloo, Paul M.; Botha, Theunis J.; van Schalkwyk, Jacobus C. J.; and Smit, Nimrod J. J., 4,674,628, Cl. 206-38.100.

Card, George W. Cartilage punch and modified prosthesis in tympanoplasty. 4,641,651, 2-10-87, Cl. 128-305.000.

Card, Joseph L.; and Card, Roy T., to Card-Monroe Corporation. Knife holder for tufting machine. 4,691,646, 9-8-87, Cl. 112-80.600.

Card, Joseph L.; and Card, Roy T. Knife holder for tufting machine. 4,693,191, 9-15-87, Cl. 112-80.600.

Card, Joseph L.: *See—*

Card, Roy T.; and Card, Joseph L., 4,665,845, Cl. 112-80.400.

Card, Roy T.; and Card, Joseph L., 4,669,171, Cl. 29-446.000.

Card, Roy T.; and Card, Joseph L., 4,688,497, Cl. 112-80.730.

Card-Monroe Corporation: *See—*

Card, Joseph L.; and Card, Roy T., 4,691,646, Cl. 112-80.600.

Card, Roy T.; and Card, Joseph L., 4,665,845, Cl. 112-80.400.

Card-O-Matic Pty. Limited: *See—*

Stanley, Louis, 4,641,421, Cl. 29-596.000.

Card, Roger J.; and Schmitt, Joseph L., Jr., to American Cyanamid Company. Catalysts for selective preparation of amines or nitriles from alkanols. 4,654,440, 3-31-87, Cl. 564-479.000.

Card, Roger J.: *See—*

O'Toole, Michael P.; and Card, Roger J., 4,639,356, Cl. 423-266.000.

Paul, Albert P.; and Card, Roger J., 4,705,570, Cl. 106-124.000.

Paul, Albert P.; Szarz, Richard A.; and Card, Roger J., 4,711,669, Cl. 106-38.510.

Card, Roy T.; and Card, Joseph L., to Card-Monroe Corporation. High speed tufting machine. 4,665,845, 5-19-87, Cl. 112-80.400.

Card, Roy T.; and Card, Joseph L. Process of installing knives in a cut pile tufting machine. 4,669,171, 6-2-87, Cl. 29-446.000.

Card, Roy T.; and Card, Joseph L. Yarn feed mechanism for tufting machine. 4,688,497, 8-25-87, Cl. 112-80.730.

Card, Roy T.: *See—*

Card, Joseph L.; and Card, Roy T., 4,691,646, Cl. 112-80.600.

Card, Joseph L.; and Card, Roy T., 4,693,191, Cl. 112-80.600.

Cardarelli, Nathan F.; and Kanakkanatt, Sebastian V. Tin steroids and their uses. 4,634,693, 1-6-87, Cl. 514-169.000.

Cardel, Inc.: *See—*

Oberg, Neil G., 4,658,508, Cl. 33-333.000.

Carden, Anthony A., to Stanley, Laverne. Skin tanning composition. 4,714,609, 12-22-87, Cl. 424-59.000.

Carden, Edward. Anaesthetist's gas pollution inhibitor. 4,633,890, 1-6-87, Cl. 128-910.000.

Carden, Gary R.: *See—*

Burns, Francis C.; and Carden, Gary R., 4,684,436, Cl. 156-643.000.

Carden, Patrick M. Electronic dice game. 4,669,728, 6-2-87, Cl. 273-138.00A.

Cardenas, Carlos G.; Evans, James M.; Stark, Charles J.; and Ehmann, William J., to Sylvachem Corporation. Ionizable olefin based resinous tackifiers for latex. 4,670,504, 6-2-87, Cl. 524-504.000.

Cardenas, Diana D.: *See—*

Lindberg, Warren N., 4,669,450, Cl. 128-25.00B.

Cardenas-Franco, Luis; and Taddei-Contreras, Fernando, to Vitro Tec Fideicomiso. Method and apparatus for synchronizing the velocity of a 90 degree push-out apparatus and of the carrier converyor in an I.S. glassware forming machine. 4,708,727, 11-24-87, Cl. 65-29.000.

Cardenas-Franco, Luis; and Lopez-Mota, Ricardo, to Vitro Tec Fideicomiso. Electronic system for automatically controlling the weight and the shape of glass gobs in a molten glass feeder. 4,708,729, 11-24-87, Cl. 65-164.000.

Cardenas-Franco, Luis: *See—*

Taddei-Contreras, Fernando; Rodriguez-Tovar, Santiago; and Cardenas-Franco, Luis, 4,675,042, Cl. 65-158.000.

Cardenas, Frank; and Stay, Ellsworth J. Method for obtaining tissue and cells by fine needle aspiration for cytology/biopsy and kit relating to the same. 4,697,600, 10-6-87, Cl. 128-753.000.

Cardenas, Luis F.: *See—*

Garcia, Victor G.; Serrano, Ricardo J. P.; Elizalde, Fernando V.; and Cardenas, Luis F., 4,654,066, Cl. 65-29.000.

Carder, William E. Carpet fastening method and means. 4,653,138, 3-31-87, Cl. 16-4.000.

Cardiac Pacemakers, Inc.: *See—*

Luksha, Eugene, 4,679,562, Cl. 128-635.000.

Salo, Rodney W., 4,674,518, Cl. 128-695.000.

Salo, Rodney W.; and Pederson, Brian D., 4,686,987, Cl. 128-419.0PG.

Cardiges, Stanley J.: *See—*

Mauzlish, Bernard L.; Cardiges, Stanley J.; and Hayes, Charles D., 4,668,029, Cl. 312-250.000.

Cardin, Vincent: *See—*

Maze, Gwenael; and Cardin, Vincent, 4,659,355, Cl. 65-3.120.

Cardin, William J.; Gulla, Michael; and Newton, Charles L., to Shipley Company Inc. Apparatus for automatically replenishing an electroless plating bath. 4,674,440, 6-23-87, Cl. 118-688.000.

Cardin, William J.: *See—*

Newton, Charles L.; Girard, Richard J.; and Cardin, William J., 4,675,111, Cl. 210-416.100.

Cardina, John; Littrell, Robert H.; and Stowell, Larry J., to Mycogen Corporation; University of Georgia Research Foundation, Inc.; and United States of America, Agriculture. Bioherbicide for Florida beggarweed. 4,643,756, 2-17-87, Cl. 71-79.000.

Cardinal Biological, Ltd.: *See—*

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Cardinal Industries, Inc.: *See—*

Boyles, William C.; Hagge, Douglas R.; and Johnston, Clifford V., 4,640,528, Cl. 280-789.000.

Collier, Ronald T.; and Thompson, Robert E., 4,694,722, Cl. 83-885.000.

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Varga, Andre; and Cripps, Henry, 4,700,538, Cl. 57-90.000.

Cardioptic Inc.: *See—*

Copeland, Dennis J., 4,643,380, Cl. 248-97.000.

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Cooper, Robert P., 4,640,820, Cl. 422-68.000.

Cardiovascular Systems, Inc.: *See—*

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Feldman, Louis W.; and Yawn, David H., 4,692,136, Cl. 494-38.000.

Cardo, Carlos C.: *See—*

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Carduck, Franz-Josef: *See—*

Kruse, Hans; Koester, Klaus; Carduck, Franz-Josef; Wilsberg, Heinz-Manfred; and Puchta, Rolf, 4,642,197, Cl. 252-98.000.

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Cross, Wiley E., Jr., 4,701,256, Cl. 209-139.100.

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Manunta, Giorgio, 4,660,129, Cl. 362-80.000.

Carena, Ugo; Coli, Giuseppe; and Fogaroli, Giuseppe, to Ing. C. Olivetti & C., S.p.A. Apparatus for reading and reproducing graphic information. 4,683,501, 7-28-87, Cl. 358-293.000.

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Baratte, Herve; Lesterlin, Dominique; and Carenco, Alain, 4,652,078, Cl. 350-96.140.

Carenzi, Angelo: *See—*

Chiarino, Dario; Carenzi, Angelo; Della Bella, Davide; and Fantucci, Mario, 4,638,003, Cl. 514-255.000.

Cares, W. Ronald: *See—*

Sliger, A. Glenn; O'Donnell, James J.; Cares, W. Ronald; and Northup, Aldrich H., Jr., 4,634,582, Cl. 423-243.000.

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Gordon, Herman B.; and Carey, Bernard J., 4,645,280, Cl. 339-17.00F.

Carey, Bruce P., to Integrated Ceilings, Inc. Subceiling construction. 4,702,056, 10-27-87, Cl. 52-484.000.

Carey, David L.: *See—*

Riley, Robert Q.; and Carey, David L., 4,643,420, Cl. 272-140.000.

Carey, Donald O.: *See—*

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Carey, Francis B., to Ash & Lacy PLC. Wall/roof assemblies. 4,651,493, 3-24-87, Cl. 52-710.000.

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McKittrick, David P.; Neel, Thomas C.; and Carey, John M., 4,653,962, Cl. 405-286.000.

Carey, John S., Jr.; Jung, Wolfgang; and Varouxis, Theodore A., to Siemens Corporate Research & Support Inc. Tilting upper body support patient trolley. 4,667,354, 5-26-87, Cl. 5-72.000.

Carey, Nancy L.: *See—*

Coleman, Edward C.; Wagner, Jeffrey D.; Ballard, Donna J.; Stone, Catharine E.; Swallow, Nancy A.; and Carey, Nancy L., 4,640,837, Cl. 426-94.000.

Carey, Paul D.; Cutts, Stanley J.; Heath, John S.; White, David E.; and Evans, David A., to International Business Machines Corporation. Disk cartridge having a flexible disk storage medium and a disk file including such a cartridge. 4,660,117, 4-21-87, Cl. 360-133.000.

Carey, Robert G. Soccer training ball assembly. 4,687,209, 8-18-87, Cl. 273-411.000.

- Carfel Inc.: *See—*
  - Tomlinson, Mack B., 4,703,917, Cl. 254-369.000.
- Cargile, John W., Jr., to Kliklok Corporation. Folding carton with improved thread and punch lock. 4,706,879, 11-17-87, Cl. 229-194.000.
- Cargill Detroit Corporation: *See—*
  - Fisher, Lee K., 4,639,963, Cl. 12-1.00A.
- Cargill, Incorporated: *See—*
  - Hedlund, David S., 4,669,605, Cl. 198-540.000.
  - Lambert, William A., 4,662,202, Cl. 72-8.000.
  - Schmidt, Roger A., 4,649,173, Cl. 524-539.000.
- Cargill, N. Allen, to Technitrol, Inc. Document feeding and printing apparatus. 4,688,481, 8-25-87, Cl. 101-233.000.
- Cargill, N. Allen; and Malashkin, Michail, to Technitrol, Inc. Document dispenser. 4,691,910, 9-8-87, Cl. 271-3.000.
- Cargille, Donald R., to Hughes Aircraft Company. Infrared sensor comprising improved feedback limited amplifier and associated method for amplifying electronic signals. 4,705,946, 11-10-87, Cl. 250-338.000.
- Cargnel, Giuseppe: *See—*
  - Mori, Maurizio; Babuin, Piero; and Cargnel, Giuseppe, 4,711,103, Cl. 68-12.00R.
- Cargnel, Louis A.: *See—*
  - Alvino, William M.; Fuller, Timothy J.; Cargnel, Louis A.; and Scala, Luciano C., 4,642,170, Cl. 204-181.400.
- Cargould, Barry D.; and Beebe, James C., to Eagle-Picher Industries, Inc. Method of inflating tires. 4,699,185, 10-13-87, Cl. 141-1.000.
- Cari-All Inc.: *See—*
  - Trubiano, Antoine, 4,678,195, Cl. 280-33.99A.
  - Trubiano, Antoine, 4,683,609, Cl. 16-114.00R.
  - Trubiano, Antoine, 4,691,816, Cl. 194-212.000.
- Carib Agro-Industries Limited: *See—*
  - Scott, Donald A.; and Hudson, John C., 4,646,512, Cl. 56-13.900.
- Caribbean Industrial Research Institute: *See—*
  - Dinanath, Chandra, 4,708,056, Cl. 99-575.000.
- Caribbean Microparticles Corporation: *See—*
  - Schwartz, Abraham, 4,689,307, Cl. 436-8.000.
- Carickhoff, Richard C.; Hemdal, Hakan O.; and Schultz, Alvin L., to Laser Magnetic Storage International Company. Data tracking clock recovery system having media speed variation compensation. 4,694,259, 9-15-87, Cl. 331-1.00A.
- Carignan, Roger G.: *See—*
  - Pratt, Clyde R.; Carignan, Roger G.; Raggio, Charles M.; and Woznick, Chuck P., 4,636,219, Cl. 623-22.000.
- Carini, Richard P.; Donnelly, James A.; Ellis, Joseph J., Jr.; and Lanzoni, Thomas P., to International Business Machines Corporation. Merged data storage panel display. 4,688,033, 8-18-87, Cl. 340-800.000.
- Carino, James E.: *See—*
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- Carino, John W.: *See—*
  - Strange, Thomas F.; and Carino, John W., 4,639,827, Cl. 361-272.000.
  - Strange, Thomas F.; and Carino, John W., 4,639,828, Cl. 361-272.000.
  - Strange, Thomas F.; and Carino, John W., 4,661,876, Cl. 361-15.000.
- Caripolti, Richard A.: *See—*
  - Newcamp, George C.; Johnston, Robert F., Jr.; McConnell, John F.; Ross, Paul R., Jr.; Caripolti, Richard A.; and Peter, John W., 4,668,272, Cl. 65-335.000.
- Caritas, Centrale d'Articles de Marques: *See—*
  - Croe, Henri, 4,676,395, Cl. 221-2.000.
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- Carkhuff, Donald W., to L-TEC Company. Plasma arc torch having supplemental electrode cooling mechanisms. 4,716,269, 12-29-87, Cl. 219-121.0PQ.
- Carl, Alfred: *See—*
  - Lattion, Andre; Carl, Alfred; and Oehler, Reinhard, 4,684,307, Cl. 414-31.000.
- Carl, Arnd-Gunther: *See—*
  - Bauer, Albert; Carl, Arnd-Gunther; and Lotter, Klaus, 4,677,256, Cl. 174-116.000.
- Carl, David F.: *See—*
  - Miles, Paul W.; and Carl, David F., 4,676,351, Cl. 192-4.00C.
- Carl Freudenberg, Firma: *See—*
  - Andorf, Paul; and Jager, Hans, 4,661,396, Cl. 428-217.000.
  - Busen, Dietmar; Schluter, Helmut; Weghmann, Arnold; Blumler, Norbert; and Tecl, Bohuslav, 4,708,756, Cl. 156-143.000.
  - Forch, Hans, 4,709,930, Cl. 277-68.000.
  - Fottinger, Walter; and Jorder, Kurt, 4,709,490, Cl. 36-44.000.
  - Freudenberg, Tillmann, 4,687,171, Cl. 248-550.000.
  - Fuchs, Dieter; and Schmitt, Wolfgang, 4,645,215, Cl. 277-152.000.
  - Grant, Eric M.; and Walker, Edward, 4,647,492, Cl. 428-198.000.
  - Hamaekers, Arno; and Rudolf, Hans-Joachim, 4,666,137, Cl. 267-140.100.
  - Hartmann, Ludwig; and Ruzek, Ivo, 4,714,651, Cl. 428-286.000.
  - Hausdorf, Jorg; Kandler, Joachim; Siekermann, Volker; and Getrost, Wilfried, 4,699,945, Cl. 524-512.000.
  - Heckel, Klaus; Graab, Gerhard; and Kuhl, Hans-Michael, 4,670,075, Cl. 156-222.000.
  - Horvat, Borut, 4,669,710, Cl. 267-64.210.
  - Idigkeit, Werner; Kurr, Klaus; and Ticks, Gerd-Heinz, 4,638,983, Cl. 267-140.100.
  - Jost, Manfred; Knoke, Jurgen; Yoshida, Zenji; Ohta, Noburo; and Nakanishi, Terumo, 4,696,850, Cl. 428-197.000.
  - Kunkel, Hans-Achim, 4,689,004, Cl. 425-407.000.
  - Muller, Walter R., 4,711,670, Cl. 106-155.000.
  - Nakao, Etsurou; Yamazaki, Hiroaki; and Hirooka, Masaki, 4,699,858, Cl. 429-254.000.
  - Rohner, Gerhard; Schweikert, Willi; and Ticks, Gerd-Heinz, 4,678,203, Cl. 280-707.000.
  - Schmitt, Wilhelm, 4,672,733, Cl. 29-511.000.
  - Schmitt, Wolfgang; and Forch, Hans, 4,695,063, Cl. 277-134.000.
  - Schweikert, Willi, 4,633,761, Cl. 91-433.000.
  - Sciortino, Giacomo, 4,638,981, Cl. 267-8.00R.
  - Sciortino, Giacomo, 4,664,360, Cl. 267-8.00R.
  - Shoji, Rikuo, 4,639,390, Cl. 428-195.000.
  - Stroh, Norbert; and Lunkenheimer, Paul P., 4,646,733, Cl. 128-207.160.
- Carl Hamel Spinn-& Zwirnmaschine AG: *See—*
  - Imhof, Christian; and Kempf, Gerhard, 4,693,069, Cl. 57-59.000.
- Carl Hurth Maschinen- und Zahnradfabrik GmbH & Co.: *See—*
  - Buschmeier, Dieter, 4,693,231, Cl. 125-116.00D.
  - Eichinger, Johann, 4,697,527, Cl. 105-133.000.
  - Erhardt, Manfred; Loos, Herbert; and Reichert, Gerhard, 4,633,619, Cl. 51-105.0GG.
  - Erhardt, Manfred; Loos, Herbert; and Reichert, Gerhard, 4,649,671, Cl. 51-287.000.
  - Loos, Herbert; and Erhardt, Manfred, 4,677,962, Cl. 125-11.0CD.
  - Loos, Herbert; and Erhardt, Manfred, 4,689,918, Cl. 51-105.0GG.
  - Loos, Herbert; and Erhardt, Manfred, 4,694,617, Cl. 51-287.000.
- Carl Kurt Walther GmbH & Co. KG: *See—*
  - Hiller, Rolf; Vollmer, Heinrich; Beckschafer, Klaus; Glodde, Reimund; and Kramer, Gunter, 4,652,469, Cl. 427-291.000.
- Carl Manufacturing Co., Ltd.: *See—*
  - Mori, Chuzo, 4,685,232, Cl. 40-381.000.
- Carl Schenck AG: *See—*
  - Buksek, Andrej, 4,703,783, Cl. 141-83.000.
  - Burkner, Wolfgang H., 4,666,029, Cl. 198-382.000.
  - Dodt, Hans-Walter, 4,680,975, Cl. 73-862.090.
  - Dodt, Hans-Walter, 4,689,513, Cl. 310-93.000.
  - Schoenfeld, Harald, 4,646,570, Cl. 73-462.000.
- Carl Still GmbH & Co., Firma: *See—*
  - Nashan, Gerd; Volmari, Josef; Dungs, Horst; Breidenbach, Dieter; and Lorenz, Kurt, 4,699,693, Cl. 202-228.000.
- Carl Still GmbH & Co. KG, Firma: *See—*
  - Laufhutte, Dieter; Schupphaus, Klaus; Trowe, Gunter; Kosske, Wolf D.; and Hubel, Friedrich, 4,663,134, Cl. 423-220.000.
  - Lemke, Otto; and Krause, Manfred, 4,692,217, Cl. 202-151.000.
  - Lorenz, Kurt; Dungs, Horst; Nashan, Gerd; Breidenbach, Dieter; and Volmari, Josef, 4,647,341, Cl. 202-228.000.
  - Lorenz, Kurt; Dungs, Horst; Nashan, Gerd; Breidenbach, Dieter; and Volmark, Josef, 4,668,344, Cl. 201-39.000.
  - Lorenz, Kurt; Dungs, Horst; and Auge, Karl-Hans, 4,701,243, Cl. 201-3.000.
  - Nashan, Gerd; Volmari, Josef; Dungs, Horst; Breidenbach, Dieter; and Lorenz, Kurt, 4,668,343, Cl. 201-39.000.
  - Offermann, Ludwig, 4,713,148, Cl. 202-243.000.
  - Walther, Norbert; Lucas, August; Lorenz, Kurt; and Bruns, Engelbert, 4,690,160, Cl. 134-181.000.
  - Weber, Heinrich; Lorenz, Kurt; and Dungs, Horst, 4,662,895, Cl. 48-210.000.
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- Carl, William P.; and Birdwell, Jeffrey D., to Dow Chemical Company, The. Method for sizing polytetrafluoroethylene fabrics. 4,650,711, 3-17-87, Cl. 428-265.000.
- Carl, William P.; and Birdwell, Jeffrey D., to Dow Chemical Company, The. Method for sizing and hydrolyzing polytetrafluoroethylene fabrics, fibers, yarns, or threads. 4,698,243, 10-6-87, Cl. 427-341.000.
- Carl, William P.: *See—*
  - Ezzell, Bobby R.; Carl, William P.; and Mod, William A., 4,687,821, Cl. 526-247.000.
- Carl-Zeiss-Stiftung: *See—*
  - Ackermann, Fritz; Felle, Karl; and Hobbie, Dierk, 4,669,048, Cl. 364-525.000.
  - Amberg, Karl-Heinz; and Kammerer, Joachim, 4,668,048, Cl. 350-253.000.
  - Ballmer, Horst; and Kramer, Henry, 4,651,301, Cl. 364-900.000.
  - Baurschmidt, Peter, 4,674,883, Cl. 356-381.000.
  - Biber, Klaus; and Unold, Gerhard, 4,715,704, Cl. 351-207.000.
  - Bittner, Reinhold, 4,707,056, Cl. 350-96.120.
  - Blumentritt, Martin; Reule, Alfred; and Bittner, Reinhold, 4,703,472, Cl. 370-3.000.
  - Daniels, Erwin J.; and Korn, Siegfried, 4,690,524, Cl. 351-168.000.
  - Fercher, Adolf F.; and Hu, Hong Z., 4,652,131, Cl. 356-349.000.
  - Ferrano, Gert, 4,660,970, Cl. 356-1.000.
  - Fey, Hans-Jurgen, 4,634,857, Cl. 250-227.000.
  - Hager, Karl-Heinz; Henneberg, Peter; and Juranek, Hans-Joachim, 4,701,023, Cl. 350-321.000.
  - Hoerenz, Peter G.; and Mueller, Gerhard, 4,657,013, Cl. 128-303.100.
  - Hoerenz, Peter G.; and Mueller, Gerhard, 4,682,595, Cl. 128-303.100.
  - Hoffmann, Friedrich; and Jessen, Kai, 4,662,370, Cl. 128-305.000.
  - Hoffmeister, Dietrich, 4,680,945, Cl. 62-514.00R.

Hohberg, Gerhard, 4,707,596, Cl. 250-201.000.
Kuhne, Christoph, 4,690,550, Cl. 356-5.000.
Kunzmann, Horst; Schepperle, Karl; and Trieb, Gerhard, 4,647,206, Cl. 356-358.000.
Kurz, Dieter; and Schafer, Norbert, 4,700,075, Cl. 250-368.000.
Lang, Walter; Mueller, Gerhard; and Weimer, Eugen, 4,644,948, Cl. 128-303.100.
Machler, Meinrad; Sachse, Richard; and Schlemmer, Harry, 4,643,570, Cl. 356-246.000.
Machler, Meinrad; Bittner, Reinhold; Gluck, Franz; Schlemmer, Harry; and Sachse, Richard, 4,644,632, Cl. 29-469.000.
Machler, Meinrad; Gluck, Franz; Schlemmer, Harry; and Bittner, Reinhold, 4,655,555, Cl. 350-432.000.
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Machler, Meinrad, 4,709,989, Cl. 350-321.000.
Muchel, Franz, 4,669,839, Cl. 351-221.000.
Muchel, Franz, 4,691,997, Cl. 350-503.000.
Muller, Gerhard; Hohberg, Gerhard; and Greve, Peter, 4,659,916, Cl. 250-201.000.
Piller, Horst; and Schilling, Albert, 4,687,304, Cl. 350-526.000.
Reule, Alfred, 4,634,215, Cl. 350-96.160.
Reule, Alfred; and Schroder, Joachim, 4,707,838, Cl. 372-38.000.
Rossmann, Dieter, 4,671,622, Cl. 350-430.000.
Schilling, Albert; Schuttler, Edwin; Schmekel, Karl-Wilhelm; and Rohde, Axel, 4,702,565, Cl. 350-531.000.
Schneider, Horst; Zeeh, Rainer; and Neumann, Hans J., 4,649,623, Cl. 29-568.000.
Schneider, Horst; Schmidt, Wilhelm; and Daniels, Erwin, 4,673,249, Cl. 350-287.000.
Schneider, Horst; Zeeh, Rainer; and Neumann, Hans J., 4,688,307, Cl. 29-26.00A.
Schurle, Hermann; Grimm, Wolfgang; and Paysan, Heinz-Wilhelm, 4,703,522, Cl. 2-432.000.
Schwarz, Jurgen, 4,694,290, Cl. 340-815.210.
Spruck, Bernd; and Gerber, Siegfried, deceased, 4,714,823, Cl. 250-205.000.
Stana, Hans; and Renner, Werner, 4,704,010, Cl. 350-444.000.
Carl-Zeiss-Stiftung, Heidenheim/Brenz: *See—*
Jorgens, Reinhard; Faltermeier, Bernd; and Trautwein, Franz, 4,695,137, Cl. 350-521.000.
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Carlach, Jean-Claude, to Etat Francais represente par le Secretaire d'Etat aux Postes et Telecommunications (Centre National d'Etudes des Telecommunications); and Etablissement Public de Diffusion, dit "Telediffusion de France". Digital circuit for frequency or pulse rate division. 4,696,020, 9-22-87, Cl. 377-48.000.
Carle, Jean-Francois; and Phillippot, Patrick, to International Business Machines Corporation. Pulling processes and equipment for growing silicon crystals having high and controlled carbon content. 4,705,591, 11-10-87, Cl. 156-617.0SP.
Carle & Montanari, S.p.A.: *See—*
Ripani, Sergio; and Serafini, Giulio, 4,666,090, Cl. 241-101.200.
Ripani, Sergio; and Serafini, Giulio, 4,688,177, Cl. 364-468.000.
Carlemalm, Eric: *See—*
Acetarin, Jean-Dominique; Villiger, Werner; and Carlemalm, Eric, 4,680,362, Cl. 526-320.000.
Carleton, Samuel A., and King, Norman R., to North American Philips Corporation. Connector for high pressure lamps. 4,712,040, 12-8-87, Cl. 313-331.000.
Carleton, William A., to Facet Enterprises, Inc. Wet motor gerotor fuel pump with self aligning bearing. 4,645,430, 2-24-87, Cl. 417-359.000.
Carleton, William F., Jr., to Motorola, Inc. True object generation system and method for a video display generator. 4,647,923, 3-3-87, Cl. 340-723.000.
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Carley, James A., 4,644,220, Cl. 313-318.000.
Carley, James A., to Carley. Filament-centering mounting for flashlight bulbs. 4,644,220, 2-17-87, Cl. 313-318.000.
Carli, Alvin J., to Philips Home Products, Inc. Lost motion clutch assembly. 4,661,085, 4-28-87, Cl. 464-160.000.
Carli, Fabio, to Farmitalia Carlo Erba S.p.A. Pharmaceutical composition. 4,639,370, 1-27-87, Cl. 424-80.000.
Carli, Giovanni; and Keating, Martin T., Jr., to Foster Wheeler Development Corporation. Support structure for solar receiver panel tubes. 4,653,470, 3-31-87, Cl. 126-418.000.
Carlick, Daniel J.; Janusz, Edward G.; and Kveglis, Albert A., to Sun Chemical Corporation. Process for preparing urethane modified resins and resultant composition. 4,666,984, 5-19-87, Cl. 525-131.000.
Carlier, Claude, to Lamson Corporation. Pneumatic send/receive terminal. 4,661,026, 4-28-87, Cl. 406-74.000.
Carlier, Patrick: *See—*
Simond, Jacques A. L.; Carlier, Patrick; and Monteil, Andre J., 4,668,679, Cl. 514-252.000.
Carlin, Benson; and Ransom, Edward H., to Whittaker General Medical Corporation. Nebulizer. 4,657,007, 4-14-87, Cl. 128-200.180.
Carlin, Bruce. Method for providing wall storage. 4,681,380, 7-21-87, Cl. 312-242.000.
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Fisher, Leonard A., 4,680,006, Cl. 431-265.000.
Carlin, Eugene C. Archery target and method. 4,643,434, 2-17-87, Cl. 273-408.000.
Carlin, Hervin A., Jr., to Poly Processing Company, Inc.; and Industrial Equipment & Engineering, Inc. Apparatus for making a polyolefin tank within a metallic tank. 4,699,294, 10-13-87, Cl. 220-465.000.
Carlin, Jack M. Flow retarding valve for fire hydrants. 4,651,772, 3-24-87, Cl. 177-299.000.
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Carlin, Joseph T., to Texaco Inc. Method of increasing enhanced oil recovery by using a higher sulfonate phase obtained on polymer addition. 4,635,722, 1-13-87, Cl. 166-274.000.
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Carlin, Samuel R.: *See—*
Anderson, James E.; and Carlin, Samuel R., 4,671,552, Cl. 293-144.000.
Carlingswitch, Inc.: *See—*
Sapone, Frank P., 4,686,339, Cl. 200-339.000.
Sorenson, Richard W., 4,640,998, Cl. 200-67.00A.
Sorenson, Richard W., 4,680,435, Cl. 200-68.200.
Sorenson, Richard W., 4,686,336, Cl. 200-61.620.
Carlini, Carlo: *See—*
Li Bassi, Giuseppe; Cadona, Luciano; Nicora, Carlo; and Carlini, Carlo, 4,672,079, Cl. 522-35.000.
Carlini, Filippo M.: *See—*
Marraccini, Antonio; Carlini, Filippo M.; Bottaccio, Giorgio; Pasquale, Antonio; and Maranzana, Giorgio, 4,655,843, Cl. 106-308.00B.
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Carlisle, Arthur W.: *See—*
Cannon, Thomas C., Jr.; Carlisle, Arthur W.; Darden, Bruce V.; and Myers, Clyde J., 4,634,214, Cl. 350-96.200.
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Backenstow, Don E.; and Gillenwater, Richard J., 4,649,686, Cl. 52-509.000.
Resan, Stevan A., 4,660,347, Cl. 52-713.000.
Vanderzee, Robert S., 4,715,915, Cl. 156-182.000.
Carlisle, Richard S. Hand exercising device. 4,685,665, 8-11-87, Cl. 272-67.000.
Carll, Richard T., and Blackaby, Barry G., to United Technologies Corporation. Digital PBX integrated workstation security system. 4,654,640, 3-31-87, Cl. 340-568.000.
Carll, Richard T., and Blackaby, Barry G., to United Technologies Corporation. Fire and security system with multi detector-occupancy-temperature-smoke (MDOTS) sensors. 4,688,183, 8-18-87, Cl. 364-554.000.
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Sisti, Giorgio; Italiano, Pietro; Riva, Ermete; and Tosi, Bruno, 4,644,779, Cl. 73-38.000.
Carlomagno, William D., to Raychem Corporation. Method of marking a substrate using a markable thermochromic article. 4,661,305, 4-28-87, Cl. 264-132.000.
Carlomagno, William D., to Raychem Corporation. Conductive polymer circuit protection devices having improved electrodes. 4,685,025, 8-4-87, Cl. 361-106.000.
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Noel, Raymond; Robinson, William M.; Cherian, Gabe; Clifford, Thomas H.; Carlomagno, William D.; Deasy, William M.; Grassauer, Willie K.; Haygood, David K.; Sherlock, H. Paul; and White, Harry E., 4,712,721, Cl. 228-56.300.
Carlon Company, The: *See—*
Borsh, Richard J., 4,711,974, Cl. 174-65.00R.
Carlos, Donald D.: *See—*
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Breddam, Klaus; Johansen, Jack T.; and Widmer, Fred, 4,645,740, Cl. 435-71.000.
Carlsen, W. John; and Melman, Paul, to GTE Laboratories Incorporated. Birefringent optical multiplexer with flattened bandpass. 4,685,773, 8-11-87, Cl. 350-401.000.
Carlsen, W. John: *See—*
Melman, Paul; and Carlsen, W. John, 4,668,045, Cl. 350-96.200.
Carlsen, William F., Jr.: *See—*
Dukes, John N.; Carlsen, William F., Jr.; and Pittaro, Richard J., 4,716,363, Cl. 324-77.00R.
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Carlson, Brian E. Self-marking measuring tape. 4,667,412, 5-26-87, Cl. 33-138.000.
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Carlson, Craig L.: *See—*
Orkin, Stanley S.; and Carlson, Craig L., 4,704,918, Cl. 74-579.00R.

Carlson, Curtis R.; Arbeiter, James H.; and Bessler, Roger F., to RCA Corporation. Real-time hierarchal pyramid signal processing apparatus. 4,674,125, 6-16-87, Cl. 382-49.000.

Carlson, Curtis R.: *See*—

Anderson, Charles H.; Carlson, Curtis R., and Burt, Peter J., 4,692,806, Cl. 358-209.000.

Bergen, James R.; and Carlson, Curtis R., 4,672,444, Cl. 358-140.000.

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Carlson, Daniel P. DC current controller for hydroset battery electrode electroformation. 4,656,411, 4-7-87, Cl. 320-16.000.

Carlson, Danis R. Process for treating plants. 4,680,889, 7-21-87, Cl. 47-58.000.

Carlson, David E.: *See*—

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Blatter, Harold; and Carlson, David J., 4,667,243, Cl. 358-191.100

Carlson, David L., to Renco Corporation. Ultrasonic detector with integral confidence tests. 4,700,711, 10-20-87, Cl. 128-660.000.

Carlson, David L.: *See*—

Gainsley, James D.; Vikre, David M.; Larsen, Jack E.; Hursh, William F.; and Carlson, David L., 4,671,289, Cl. 128-660.000.

Carlson, Dennis W. Paperback-hardcover conversion insert. 4,650,216, 3-17-87, Cl. 281-34.000.

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Schmitz, Charles E.; Wimberly, Richard C.; and Carlson, Donald J., 4,659,931, Cl. 250-338.000.

Carlson, E. Ronald: *See*—

Beskow, Robert H.; Dunn, Patrick J.; Goodacre, John H.; Hall, Larry J.; Fischer, William H.; and Carlson, E. Ronald. 4,695,201, Cl. 405-224.000.

Carlson, Erland F. Clutching apparatus and method of clutching. 4,684,001, 8-4-87, Cl. 192-70.000.

Carlson, Frank: *See*—

Atwood, Mark T.; Carlson, Frank; and Peterscheck, Hermann, 4,692,252, Cl. 210-761.000.

Carlson, Franklin J. Manhole lid seal. 4,648,740, 3-10-87, Cl. 404-25.000.

Carlson, Gary, to Wizards Ice Cream & Confectionery Shoppe, Ltd. Blending machine. 4,708,489, 11-24-87, Cl. 366-149.000.

Carlson, Gerald J.: *See*—

Itani, Abdallah M.; Dietz, Peter W.; and Carlson, Gerald J., 4,680,532, Cl. 323-240.000.

Itani, Abdallah M.; Carlson, Gerald J.; and Dietz, Peter W., 4,680,533, Cl. 323-240.000.

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Carlson, Gerald L., to Westinghouse Electric Corp. Automatic on-line chemistry monitoring system having improved calibration unit. 4,713,772, 12-15-87, Cl. 364-496.000.

Carlson, Gilbert E., to Conrad Industries, Inc. Apparatus and method for detecting position of embroidery machine after power failure. 4,688,498, 8-25-87, Cl. 112-103.000.

Carlson, Glenn R., to Rohm and Haas Company. Certain 2-phenyl-4-oxo-nicotinates and their use for inducing male sterility in a cereal grain plant. 4,714,492, 12-22-87, Cl. 71-94.000.

Carlson, James R.: *See*—

Brands, George B.; and Carlson, James R., 4,635,550, Cl. 101-415.100.

Carlson, Jess W.: *See*—

Cornelson, Donald P.; and Carlson, Jess W., 4,695,056, Cl. 273-262.000.

Carlson, John H., to USM Corporation. Method of making an internal wave generator for strain wave gearing. 4,663,813, 5-12-87, Cl. 29-159.200.

Carlson, Joseph D.; and Goode, Bruce D. Transportable live well liner. 4,642,934, 2-17-87, Cl. 43-55.000.

Carlson, Joseph W.: *See*—

Kaufman, Leon; Carlson, Joseph W.; Arakawa, Mitsuaki; McCarten, Barry M.; and Fehn, John H., 4,703,274, Cl. 324-318.000.

Carlson, Kenneth C.: *See*—

Arrigoni, John P.; and Carlson, Kenneth C., 4,644,701, Cl. 51-241.00S.

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Carlson, Larry M.; and Braun, Douglas J. Pipe shaver. 4,691,600, 9-8-87, Cl. 82-4.00C.

Carlson, Lee G.; Terrien, Conrad; and Queisser, Roger, to UIP Engineered Products Corporation. Mixed resin bed deionizer. 4,670,154, 6-2-87, Cl. 210-675.000.

Carlson, Lee G.: *See*—

Terrien, Conrad; and Carlson, Lee G., 4,693,818, Cl. 210-189.000.

Carlson, Lee R.; Hegedus, Denes A.; Jarrett, Steven M.; Miller, Michael F.; Riley, Martin E.; and Wright, David L., to Spectra-Physics, Inc. Gas laser construction. 4,649,547, 3-10-87, Cl. 372-61.000.

Carlson, Lee R.; Hegedus, Denes A.; Jarrett, Steven M.; Miller, Michael F.; Riley, Martin E.; and Wright, David L., to Spectra-Physics, Inc. Gas fill system for a laser tube. 4,683,575, 7-28-87, Cl. 372-59.000.

Carlson, Lee R.; Hegedus, Denes A.; Jarrett, Steven M.; Miller, Michael F.; Riley, Martin E.; and Wright, David L., to Spectra-Physics, Inc. Gas laser construction. 4,685,109, 8-4-87, Cl. 372-61.000.

Carlson, Lee R.: *See*—

DeBell, Gary W.; Wright, David L.; Ruddock, Kenneth A.; Petersen, Alan B.; Carlson, Lee R.; and von Gunten, Marc K., 4,685,110, Cl. 372-103.000.

Petersen, Alan B.; Rempel, Robert C.; Lastovka, Joseph B.; Head, David F.; and Carlson, Lee R., 4,677,640, Cl. 372-103.000.

Carlson, Melvin C., and Dean, Raymond H. Control installation for variable volume air diffusers. 4,648,552, 3-10-87, Cl. 236-49.000.

Carlson, Melvin C.; and Dean, Raymond H., to Tempmaster Corporation. Control installation for variable volume air diffusers. 4,694,988, 9-22-87, Cl. 236-49.000.

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Nordstrom, Eric W.; Bielik, Paul G.; and Carlson, Michael E., 4,653,890, Cl. 354-299.000.

Carlson, Michael G.; Ward, Ronald A.; and Jolin, Terry H., to Western Forms, Inc. Multiple purpose concrete form with side rail stiffeners. 4,708,315, 11-24-87, Cl. 249-192.000.

Carlson, Nils W.: *See*—

Mossberg, Thomas W.; Bai, Yu-Sheng; Babbitt, William R.; and Carlson, Nils W., 4,670,854, Cl. 364-822.000.

Carlson, Norman R.; and Johnston, James M., to Dresser Industries, Inc. Method and apparatus for evaluating flow characteristics of fluid behind pipe. 4,646,273, 2-24-87, Cl. 367-32.000.

Carlson, Paul R.: *See*—

Carlson, Steven R.; and Carlson, Paul R., 4,678,896, Cl. 235-380.000.

Carlson, Paul S., to Raytek, Inc. Infrared intrusion detector with field of view locator. 4,642,454, 2-10-87, Cl. 250-221.000.

Carlson, Richard A., to General Motors Corporation. Motor vehicle electrical system providing multiple DC voltages. 4,684,818, 8-4-87, Cl. 307-10.00R.

Carlson, Richard A.: *See*—

Hennessy, James W.; Angel, Henry R.; and Carlson, Richard A., 4,706,207, Cl. 364-555.000.

Carlson, Richard F., to Komax Systems, Inc. Gaseous injector for mixing apparatus. 4,674,888, 6-23-87, Cl. 366-337.000.

Carlson, Richard J.; and Kemeny, George A., to Westinghouse Electric Corp. Multiple rail electromagnetic launchers with acceleration enhancing rail configurations. 4,677,895, 7-7-87, Cl. 89-8.000.

Carlson, Richard L. Apple orientation apparatus and method. 4,706,797, 11-17-87, Cl. 198-394.000.

Carlson, Richard P.: *See*—

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Carlson, Robert D. Denture with chewing inserts. 4,642,052, 2-10-87, Cl. 433-189.000.

Carlson, Robert E.; and Clement, Joseph S., to TRW Inc. Floating ball-nut for an electric assist steering system. 4,666,014, 5-19-87, Cl. 180-148.000.

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Carlson, Robert L., to Miner Enterprises, Inc. Side bearing unit for railroad car, including method of making. 4,712,487, 12-15-87, Cl. 105-199.300.

Carlson, Ronald E.; Ely, Stephen R.; Feinstein, Allen I.; and Ghanayem, Ibrahim, to Amoco Corporation. Hydrocarbon conversion processes over crystalline borosilicate catalysts for pseudocumene recovery. 4,677,240, 6-30-87, Cl. 585-488.000.

Carlson, Steven B.: *See*—

Pearlman, Gordon W.; and Carlson, Steven B., 4,649,323, Cl. 315-307.000.

Carlson, Steven J.; Donald, William W.; and Lepine, James J., to United States of America, Agriculture. Washer for plant roots and other articles. 4,685,481, 8-11-87, Cl. 134-155.000.

Carlson, Steven R.; and Carlson, Paul R. Point-of sale mechanism. 4,678,896, 7-7-87, Cl. 235-380.000.

Carlson, Timothy L.: *See*—

Ward, John W.; Carlson, Timothy L.; and Millman, William S., 4,672,048, Cl. 502-66.000.

Carlson, Walter H.; and Burmeister, Kevin L., to Graphite Sales, Inc. High temperature molds and composition for same. 4,658,886, 4-21-87, Cl. 164-526.000.

Carlson, William H., Jr.; and Shafer, Paul H., to Analog Devices, Incorporated. Material requirements planning system and procedures for use in process industries. 4,646,238, 2-24-87, Cl. 364-403.000.

Carlson, William L., Jr., to General Signal Corporation. Involute valve closure. 4,640,492, 2-3-87, Cl. 251-163.000.

Carlson, William P.: *See*—

Slavik, William H.; Carlson, William P.; Cepynsky, George L.; Dussault, Paul G.; Margison, Steven E.; and Wolf, James A., Jr., 4,682,958, Cl. 434-335.000.

Carlson, William R.; Gjertsen, Robert K.; and Miller, John V., to Westinghouse Electric Corp. Nuclear fuel assembly incorporating primary and secondary structural support members. 4,683,117, 7-28-87, Cl. 376-449.000.

Carlson, William R.; and Piplica, Eugene J., to Westinghouse Electric Corp. Spectral shift reactor. 4,716,007, 12-29-87, Cl. 376-209.000.

Carlson, William R., to Westinghouse Electric Corp. Modular nuclear fuel assembly design. 4,716,015, 12-29-87, Cl. 376-445.000.

Carlsson, Agneta: *See*—

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Carlsson, Bengt, to Aktiebologet Bofors. High velocity projectile. 4,690,057, 9-1-87, Cl. 102-266.000.

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sson, Claes-Goeran: *See—*
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Axen, Rolf E.; Carlsson, Jan P.; and Drevin, Hakan N., 4,647,655, Cl. 530-390.000.

sson, Jan P. E.: *See—*
Axen, Rolf E. A. V.; and Carlsson, Jan P. E., 4,711,951, Cl. 530-323.000.

sson, Lars G.; and Lundvall, Sven A., to Lundvall, Sven Albert. ethod of processing mussles. 4,659,574, 4-21-87, Cl. 426-68.000.

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sson, Stiv E. I.; Gustafsson, Lars-Erik; and Robertsson, Karl T. W., Santrade Ltd. Single-sided cutting insert. 4,674,924, 6-23-87, Cl. 7-114.000.

sson, Torsten L. T.: *See—*
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strom, Thomas N., to GA Technologies, Inc. Vacuum liner for a asma device. 4,663,108, 5-5-87, Cl. 376-136.000.

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ton Medical Products Ltd.: *See—*
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ton, William G. On-bow/off-bow archery sight. 4,662,347, 5-5-87, 124-87.000.

ton, William G. Archery trigger release mechanism. 4,672,945, 16-87, Cl. 124-35.00A.

ucci, Vito: *See—*
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mel Medical Devices: *See—*
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michael, Bruce. Boat canopy. 4,683,900, 8-4-87, Cl. 135-88.000.

michael, Gregory R.: *See—*
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michael, Robert J.: *See—*
Wood, John F. B.; Kaiser, Timothy D.; Allyn, Jerome B.; Dykes, Charles D.; Kalaskie, Frank E.; Carmichael, Robert J.; and Simon, Charles R., 4,694,899, Cl. 164-452.000.

michael, Tracy J. Multi-level board game. 4,648,601, 3-10-87, Cl. 73-241.000.

millet, Roger; Graton, Michel; and Bacher, Michel, to VALEO. Torsional damper device. 4,655,337, 4-7-87, Cl. 192-106.200.

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armona, Jean, to Carole; and Outillage R.C. Reamer tool - holder for tooling machine parts. 4,688,971, 8-25-87, Cl. 408-185.000.

Carmosin, Richard J.; and Carson, John R., to McNeilab, Inc. 3-diphenyl substituted octahydroindolizine analgesic compounds. 4,683,239, 7-28-87, Cl. 514-299.000.

Carmosin, Richard J.; and Carson, John R., to McNeilab, Inc. 5-substituted octahydroindolizine analgesics compounds and 7-keto intermediates. 4,689,329, 8-25-87, Cl. 514-299.000.

Carmosin, Richard J.; and Carson, John R., to McNeilab, Inc. 4-substituted octahydroquinolizine analgesic compounds and octahydroquinolizinium intermediates. 4,716,172, 12-29-87, Cl. 514-306.000.

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Carnahan, Samuel U.; and Buckingham, Arthur G., to United States of America, Air Force. Two fault tolerant transmitter activator. 4,654,661, 3-31-87, Cl. 340-825.570.

Carnahan, V. B. Remountable wall/ceiling molding. 4,709,522, 12-1-87, Cl. 52-287.000.

Carnaud S.A.: *See—*
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Carnegie Institution of Washington: *See—*
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Carnegis, Nicholas P.: *See—*
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Carnel, Jean: *See—*
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Carnell, Brian L.; and Selleck, Robert A., to United Technologies Corporation. Cyclic stick construction for crashworthy seat cockpit. 4,655,416, 4-7-87, Cl. 244-121.000.

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Carney, James K., and Kolbas, Robert M., to Honeywell Inc. Integrated quantum well lasers for wavelength division multiplexing. 4,637,122, 1-20-87, Cl. 29-569.00L.

Carney, James K., to Honeywell Inc. Etch process monitors for buried heterostructures. 4,652,333, 3-24-87, Cl. 156-626.000.

Carney, John F., III, to State of Connecticut. Stationary impact attenuation system. 4,645,375, 2-24-87, Cl. 404-6.000.

Carney, Joseph H.; and Lozano, Rudy, to Carney-Lozano Enterprise Limited. Method of making a sewer pipe testing apparatus. 4,662,048, 5-5-87, Cl. 29-157.00R.

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Caro, Edward R.; and Bonazza, Walter J., to United States of America, National Aeronautics and Space Administration. Coaxial cable connector. 4,698,028, 10-6-87, Cl. 439-271.000.

Carof, Alain, and Marchand, Maurice, to LMT Radio Professionnelle. Passive radar responder. 4,647,930, 3-3-87, Cl. 342-6.000.

Carol Cable Company: *See—*
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Carolina Creations, Inc.: *See—*
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Carolina Power & Light Company: *See—*
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Carolla, Russell A.: *See—*
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Carome, Edward F. Fiber optic accelerometer. 4,671,113, 6-9-87, Cl. 73-516.0LM.

Carome, Edward F.: *See—*
Poorman, Thomas J.; Grissom, David; and Carome, Edward F., 4,688,200, Cl. 367-149.000.

Caron, Bernard G.; Hoffer, John C.; and Rupert, Martin R., to AMP Incorporated. Splice organizer for optical cable splices. 4,666,240, 5-19-87, Cl. 350-96.200.

Caron, Bernard G., to AMP Incorporated. Fiber optic connector and method for terminating fiber optic transmission members. 4,666,241, 5-19-87, Cl. 350-96.210.

Caron, Bernard G.: *See—*
Ashman, John J.; and Caron, Bernard G., 4,648,688, Cl. 350-96.200.
Hoffer, John C.; Caron, Bernard G.; and Rupert, Martin R., 4,685,764, Cl. 350-96.200.

Caroon Brothers Seafood: *See—*
Caroon, Linald R., 4,633,547, Cl. 17-71.000.

Caroon, Linald R., to Caroon Brothers Seafood. Crab picking machine. 4,633,547, 1-6-87, Cl. 17-71.000.

Carosella, David P. E., Jr.: *See—*
Yampolsky, Jack S.; and Carosella, David P. E., Jr., 4,660,632, Cl. 165-160.000.

Carossi, Jean-Claude; Da Costa Viera, David; and Thirion, Claude, to Commissariat a l'Energie Atomique. Apparatus for checking atmospheric pollution due to alpha particle emitting aerosols. 4,700,067, 10-13-87, Cl. 250-380.000.

Carossio, Guido: *See—*
Guglielmetti, Giorgio; Carossio, Guido; and Gilli, Luigi, 4,713,994, Cl. 83-71.000.

Carothers, Charles H.; and Sweetana, Andrew S., to Westinghouse Electric Corp. Electrical surge arrester and disconnector. 4,663,692, 5-5-87, Cl. 361-117.000.

Carothers, John S.: *See—*
Smith, Paul S.; and Carothers, John S., 4,675,901, Cl. 379-387.000.

Carousel Industries, Inc.: *See—*
Gold, Arthur, 4,667,848, Cl. 221-155.000.
Gold, Arthur, 4,673,111, Cl. 222-305.000.

Carow, Donald W.: *See—*
Westhaver, Robert O.; Carow, Donald W.; and Archibald, Frank R., 4,655,096, Cl. 74-5.00F.

Carp, Ralph W., to Allied Corporation. Symmetrical bridge circuit for measuring mass air flow. 4,637,251, 1-20-87, Cl. 73-118.200.

Carp, Stuart L.: *See—*
Naegeli, Andrew H.; and Carp, Stuart L., 4,675,613, Cl. 328-133.000.

Carpano & Pons: *See—*
Payen, Jean-Noel; and Thomas, Francis, 4,653,343, Cl. 74-568.00T.

Carpenter, Alan L.: *See—*
Rezek, Edward A.; Burghard, Andre; and Carpenter, Alan L., 4,647,320, Cl. 148-171.000.

Carpenter, Charles T.; and Bayly, Robert M., to Duratech, Inc. V-shaped chipper knife. 4,669,516, 6-2-87, Cl. 144-241.000.

Carpenter, Clayton A.: *See—*
Kurlytis, Paul C.; and Carpenter, Clayton A., 4,693,468, Cl. 272-73.000.

Carpenter, Denis D.: *See—*
Oltman, John E.; Dopp, Robert B.; and Carpenter, Denis D., 4,649,090, Cl. 429-29.000.

Carpenter, Frank, to Lake Charles Instruments, Inc. Rotary metering device useful with abrasive fluids. 4,640,125, 2-3-87, Cl. 73-259.000.

Carpenter, Frank, to Lake Charles Instruments, Inc. Flow volume detection device. 4,674,338, 6-23-87, Cl. 73-861.770.

Carpenter-Green, Sharon S.: *See—*
Popescu, Mircea C.; Weiner, Alan L.; and Carpenter-Green, Sharon S., 4,708,861, Cl. 424-1.100.

Carpenter, James H.; Mullins, Ronald L.; and Smith, Ronald L., to Pangborn Corporation. Portable abrasive throwing wheel device. 4,680,899, 7-21-87, Cl. 51-427.000.

Carpenter, James H.: *See—*
Bowling, Joseph E.; Carpenter, James H.; and Rowe, Russell L., 4,637,559, Cl. 241-94.000.

Carpenter, James H., Jr. Method and apparatus for cleaning workpieces. 4,680,898, 7-21-87, Cl. 51-419.000.

Carpenter, James H., Jr.; and Peters, Kenneth R. Vane retention apparatus for abrasive blasting machine. 4,697,391, 10-6-87, Cl. 51-434.000.

Carpenter, John C., to Ocean Technology, Inc. Constant current power circuit for horizontal deflection of cathode ray tube. 4,642,533, 2-10-87, Cl. 315-408.000.

Carpenter, Keith H.; Miller, Jon E.; and Murphy, John W., to General Motors Corporation. Dynamoelectric machine with permanent magnet and magnet mounting surface arrangement. 4,642,502, 2-10-87, Cl. 310-156.000.

Carpenter, Kent H.; and Sebenik, Roger F., to Amax Inc. Fluid bed reduction to produce molybdenum metal. 4,659,376, 4-21-87, Cl. 75-84.000.

Carpenter, Michael K.: *See—*
Ellis, Arthur B.; and Carpenter, Michael K., 4,645,932, Cl. 250-361.00R.

Carpenter, Peter F., to ALZA Corporation. System for providing intravenously administrable drug formulation. 4,692,144, 9-8-87, Cl. 604-56.000.

Carpenter, Richard H., to Commonwealth Technology Incorporated. Helicopter rotor fouling. 4,679,504, 7-14-87, Cl. 102-348.000.

Carpenter, Robert L., to Brunswick Corporation. Left-right retrieve spin cast reel. 4,674,698, 6-23-87, Cl. 242-84.20A.

Carpenter, Robert L.; and Swisher, Steven L., to Brunswick Corporation. Quick bail opening system for fishing reel. 4,676,450, 6-30-87, Cl. 242-84.20G.

Carpenter, Roy B., Jr. Method and equipment for lightning protection through electric potential neutralization. 4,679,114, 7-7-87, Cl. 361-117.000.

Carpenter, Stephen T.: *See—*
Buckle, Derek R.; and Carpenter, Stephen T., 4,692,526, Cl. 544-366.000.

Carpenter Technology Corporation: *See—*
Del Corso, Gregory J.; Carnes, Robert E.; and Esposito, David 4,693,863, Cl. 419-13.000.

Carpenter, Willis M., to Hydra-Level, Inc. Hydraulic leveling device 4,711,428, 12-8-87, Cl. 254-423.000.

Carpentier, Alain; Carpentier, Sophie; and Nashef, Aws S., to American Hospital Supply Corporation. Implantable biological tissue and process for preparation thereof. 4,647,283, 3-3-87, Cl. 623-11.000.

Carpentier, Alain; Carpentier, Sophie; and Nashef, Aws S., to American Hospital Supply Corporation. Implantable biological tissue and process for preparation thereof. 4,648,881, 3-10-87, Cl. 623-11.000.

Carpentier, Claude. Audio amplifier for a motor vehicle. 4,684,89 8-4-87, Cl. 330-149.000.

Carpentier, Philip L., to Shell Western E&P Inc. Process for recovering natural gas liquids. 4,664,190, 5-12-87, Cl. 166-267.000.

Carpentier, Sophie: *See—*
Carpentier, Alain; Carpentier, Sophie; and Nashef, Aws S. 4,647,283, Cl. 623-11.000.
Carpentier, Alain; Carpentier, Sophie; and Nashef, Aws S. 4,648,881, Cl. 623-11.000.

Carpentier, Yves; and Gauthier, Andre, to Societe Anonyme de Telecommunications. Photoconducting detector in optical immersion 4,636,631, 1-13-87, Cl. 250-216.000.

CARPIBEM (Centre d'activite et de recherche Pharmaceutique e Industrielee Biologique): *See—*
Teulon, Jean M.; and Bouley, Etienne, 4,668,801, Cl. 549-72.00

Carpigiani Bruto Macchine Automatiche: *See—*
Manfroni, Ezio, 4,698,984, Cl. 62-343.000.
Manfroni, Ezio, 4,711,376, Cl. 222-146.100.

Carpinone, Joseph S. Air stone. 4,655,915, 4-7-87, Cl. 210-169.00

Carr, Christopher; and Rembold, William T., to Procter & Gambl Company, The. Method and apparatus for applying adhesive to th edges of open container ends. 4,714,630, 12-22-87, Cl. 427-207.10

Carr, Dale D.: *See—*
Metro, Stephen J.; and Carr, Dale D., 4,655,946, Cl. 252-32.50

Carr, Damon L. Baseball glove holder and training aid. 4,637,61 1-20-87, Cl. 273-26.00C.

Carr, David E.: *See—*
Etherington, Harry J. C.; Joslin, Paul C.; Carr, David E.; an Simpson-Davis, Raymond, 4,707,573, Cl. 178-18.000.

Carr, Douglas M.: *See—*
Pettit, John W.; and Carr, Douglas M., 4,669,040, Cl. 364-162.00

Carr, Francis, to Siltronics Ltd. Miniature antenna with separate s quentially wound windings. 4,712,112, 12-8-87, Cl. 343-788.000.

Carr, Francis L.; and Terrill, Larry R., to A. G. Busch & Co., Inc. DC to DC battery charger. 4,638,236, 1-20-87, Cl. 320-21.000.

Carr, Frederick J. Swinging lift gate. 4,658,543, 4-21-87, Cl. 49-139.00

Carr, Keith E., to Whirlpool Corporation. Bulkhead seal for clothe dryer. 4,669,200, 6-2-87, Cl. 34-242.000.

Carr, Keith E.: *See—*
Werner, Kurt; Malchow, Gregory L.; Carr, Keith E.; and Br Robert A., 4,700,492, Cl. 34-32.000.

Carr, Kenneth; and Blaisdell, Arthur A., to M/A-COM, Inc. Coaxi connector. 4,686,498, 8-11-87, Cl. 333-260.000.

Carr, Kenneth L., to M/A-Com, Inc. Infiltration detection apparatu 4,647,281, 3-3-87, Cl. 604-50.000.

Carr, Kenneth L., to M/A-Com, Inc. Non-invasive temperature mon tor. 4,715,727, 12-29-87, Cl. 374-122.000.

Carr Lane Roemheld Manufacturing Co., Inc.: *See—*
Ehrhardt, Winfried; Richter, Klaus; and Lehr, Adolf, 4,695,047, C 269-309.000.

Carr, Morris L. Disposable ashtray attachment for beverage ca 4,634,014, 1-6-87, Cl. 220-1.00H.

Carr, Paul, to Flo-Tork, Inc. Combination of cushion, adjuster and sid ports in a single unit rotary actuator. 4,638,717, 1-27-87, Cl. 91-26.00

Carr, Peter: *See—*
Bjorkman, Harry K., Jr.; and Carr, Peter. 4,678,656, C 423-500.000.

Carr, R. Stephen; Dalzell, Julius N.; Holmes, J. Fred; and Hunt, Joh M. Home energy monitoring and control system. 4,644,320, 2-17-8 Cl. 340-310.00A.

Carr, Richard P.; and Corpuz, Marcos Y., to Nalco Chemical Company. Diesel fuel additive. 4,661,120, 4-28-87, Cl. 44-57.000.

Carr, Richard P., to Nalco Chemical Company. Coolant stabilize 4,707,286, 11-17-87, Cl. 252-75.000.

Carr, Richard V. C.; Toseland, Bernard A.; and Ross, David S., to A Products and Chemicals, Inc. Process for separating nitroaromat compounds from spent nitric acid. 4,642,396, 2-10-87, Cl. 568-934.00

Carr, Richard V. C.: *See—*
Pohl, Michael C.; Carr, Richard V. C.; and Sawicki, John E 4,650,912, Cl. 568-934.000.

Carr, Ronald H.: *See—*
Paul, Gary E.; Carr, Ronald H.; and Stern, Lee W., 4,696,793, C 376-447.000.

Carr, Trevor L.: *See*—
Gostelow, Benjamin F.; Buick, Thomas R.; Hart, William B.; Gale, Paul N.; Carr, Trevor L.; Dibling, Richard C.; and Albon, Philip, 4,671,074, Cl. 62-186.000.

Carr, Wesley G. Anti-theft brake lock. 4,633,686, 1-6-87, Cl. 70-179.000.

Carr, William H., Jr.: *See*—
Desmond, John D.; and Carr, William H., Jr., 4,667,872, Cl. 229-106.000.

Carranza, Fermin A., Jr.: *See*—
Newman, Michael G.; and Carranza, Fermin A., Jr., 4,638,823, Cl. 132-91.000.

Carrara, Giuseppe. Furnace for the complete, smokeless combustion of liquid or partially liquid materials. 4,694,756, 9-22-87, Cl. 110-238.000.

Carrard, Jean-Daniel: *See*—
Laforge, Eric; and Carrard, Jean-Daniel, 4,653,320, Cl. 73-185.000.

Carraro, Eugene; and Laughlin, Raymond S., to Erico International Corporation. Suspended ceiling grid clip. 4,715,161, 12-29-87, Cl. 52-714.000.

Carraro, Roberto: *See*—
Sebastiani, Gaetano; Brandi, Roberto; Di Lena, Francesco; Vanore, Silvestro; and Carraro, Roberto, 4,695,193, Cl. 405-204.000.

arrasco, Ralph G., Jr.: *See*—
Rahlwes, William C.; and Carrasco, Ralph G., Jr., 4,654,452, Cl. 585-253.000.

arrasquel, Angel R.: *See*—
Morales, Alfredo L.; Galiasso, Roberto; Carrasquel, Angel R.; and Salazar, Jose A., 4,642,179, Cl. 208-217.000.

arratt, Michel; Hakoun, Roland; Maurel, Jean-Joseph; Pecastaings, Serge; and Repain, Pascal, to Commissariat a l'Energie Atomique. Optical device for sealing a container and process for detecting an attempted burglary or break-in with the aid of the device. 4,688,891, -25-87, Cl. 350-96.240.

rre, Graham J. Personal decoration retainer. 4,686,837, 8-18-87, Cl. 3-12.000.

rre, Jean, to Groupment d'Interet Economique Aerogenerateurs Carre. Wind motors and aerogenerators. 4,641,039, 2-3-87, Cl. 290-44.000.

rre, Jean-Jacques; Kervagoret, Gilbert; and Levrai, Roland, to Societe Anonyme D.B.A. Hydraulic amplifier for braking system. 4,651,528, 3-24-87, Cl. 60-556.000.

rre, Jean-Jacques; and Pressaco, Pierre, to Societe Anonyme D.B.A. Disc brake with automatic adjustment. 4,660,684, 4-28-87, Cl. 188-71.900.

rre, Jean-Jacques, to Societe Anonyme D.B.A. Braking booster servomotor of lightened structure. 4,672,812, 6-16-87, Cl. 60-547.100.

rre, Jean-Jacques; and Levrai, Roland, to Bendix France. Deceleration responsive braking corrector. 4,673,223, 6-16-87, Cl. 303-24.00C.

rre, Jean-Jacques, to Bendix France. Deceleration-responsive braking corrector. 4,712,840, 12-15-87, Cl. 303-24.00R.

rre, Jean-Yves: *See*—
Mare, Gwenael; Carre, Jean-Yves; and Poulain, Marcel, 4,661,413, Cl. 428-432.000.

rell, Ross M., to RCA Corporation. Mail singulation system. 634,328, 1-6-87, Cl. 414-117.000.

rell, Ross M., to RCA Corporation. Articulated manipulation device. 4,648,588, 3-10-87, Cl. 271-91.000.

rell, Ross M., to RCA Corporation. Terminal. 4,648,676, 3-10-87, l. 339-97.00R.

rell, Ross M., to RCA Corporation. Parcel sorting apparatus. 690,283, 9-1-87, Cl. 209-549.000.

rell, Ross M., to RCA Corporation. Article manipulation system. 697,689, 10-6-87, Cl. 198-394.000.

rell, Ross M., to RCA Corporation. Adjustable vacuum pad. 712,784, 12-15-87, Cl. 271-108.000.

rera, Cesare: *See*—
Ruscelli, Emilio; Carrera, Cesare; and Formenti, Giuseppe, 4,709,739, Cl. 152-453.000.

rras, Richard A.; Cusumano, Salvatore J.; Jenks, Morton B.; and zu, Robert I., to United States of America, Air Force. Synthetic erture multi-telescope tracker apparatus. 4,667,090, 5-19-87, Cl. 0-201.000.

rras, Richard A., to United States of America, Air Force. Microcomputer controlled image processor. 4,689,758, 8-25-87, Cl. 4-561.000.

ck, John W.: *See*—
Aubourg, Peter L.; and Carrick, John W., 4,644,707, Cl. 52-65.000.

ck, Lawrence K., to Calkins Manufacturing Company. Boat iler. 4,664,401, 5-12-87, Cl. 280-414.100.

ck, Lee. Applicator for coating suspended cable. 4,638,761, 27-87, Cl. 118-694.000.

co, John P., Sr.: *See*—
Vora, Kishore N.; Carrico, John P., Sr.; Spangler, Glenn E.; Campbell, Donald N.; and Martin, Charles E., 4,712,008, Cl. 250-287.000.

co, Philip H., to SFE Technologies. Vapor nozzle with gas barrier s. 4,682,565, 7-28-87, Cl. 118-719.000.

er, Christian J. L.; and Shea, Charles J., to Minister of National fence of Her Majesty's Canadian Government. Compact molded lkhead for a tube-cluster rocket launcher. 4,635,527, 1-13-87, Cl. 1.816.

er Corporation: *See*—
allard, Gary W.; and Mamot, Robert M., 4,638,942, Cl. 236-10.000.
allard, Gary W.; and Thompson, Kevin D., 4,688,547, Cl. 126-116.00A.
allard, Gary W., 4,706,881, Cl. 236-15.0BD.
Ballentine, Paul H., 4,679,423, Cl. 73-37.500.
Bolton, Theodore S.; and Napolitano, James E., 4,651,959, Cl. 248-208.000.
Bussjager, Rudy C., 4,660,761, Cl. 237-2.00B.
Carson, Ernest A.; and Anderson, Gordon K., 4,660,872, Cl. 292-242.000.
Chamberlin, Frederick C.; Whynacht, Charles; Carter, Peter D.; and Wilson, Charles S., 4,703,325, Cl. 340-825.170.
Chopko, Robert A.; and Androff, Joel W., 4,688,391, Cl. 62-163.000.
Clark, William E., 4,659,010, Cl. 236-87.000.
Dennis, Richard D.; and Woollis, Theodore L., 4,643,002, Cl. 62-525.000.
Faurie, Daniel B, 4,699,314, Cl. 236-49.000.
Hooton, Robert D., 4,706,365, Cl. 29-520.000.
Huenniger, Edward A., 4,646,530, Cl. 62-175.000.
Huenniger, Edward A., 4,653,286, Cl. 62-174.000.
Inglis, Stephen C., 4,688,472, Cl. 98-1.000.
Lang, Richard D.; and Napolitano, James E., 4,633,680, Cl. 62-507.000.
McManus, John R.; and Ubowski, Lawrence W., 4,633,941, Cl. 165-172.000.
McManus, John R.; and Wright, William E., 4,633,942, Cl. 165-172.000.
McManus, John R., 4,682,488, Cl. 72-387.000.
Mitchell, Charles A.; Wawro, Thaddeus J.; Whipple, Charles E.; and Wright, William E., Sr., 4,679,405, Cl. 62-285.000.
Moeller, Mark A.; and Burkhart, Larry J., 4,653,291, Cl. 62-511.000.
O'Mara, Raymond D.; and Shapiro, Ian M., 4,693,091, Cl. 62-272.000.
Reimann, Robert C., 4,688,399, Cl. 62-485.000.
Schoch, Stephen A., 4,637,729, Cl. 356-410.000.
Schoch, Stephen A.; and Sibley, Howard W., 4,639,594, Cl. 250-227.000.
Sibley, Howard W.; and Shaffer, Karl, 4,649,711, Cl. 62-129.000.
Thompson, Kevin D.; Ballard, Gary W.; and Mamot, Robert M., 4,648,551, Cl. 236-49.000.
Thompson, Kevin D.; Dempsey, Daniel J.; and Peitz, Robert W., Jr., 4,703,747, Cl. 126-112.000.
Thompson, Kevin D.; and Ballard, Gary W., 4,707,646, Cl. 318-332.000.
Voorhis, Roger; Erbs, Daryl G.; Palmer, John M.; and Marris, Derrick A., 4,709,560, Cl. 62-508.000.
Zimmerli, Robert H.; and Lim, Alexander T., 4,646,548, Cl. 72-68.000.
Zogg, Robert A.; Robertson, Gerald F.; and Brown, Will C., 4,705,103, Cl. 165-110.000.

Carrier, Denis; and Saintonge, Andre, to Carrier, Denis. Device for detecting the onset of parturition of a pregnant animal. 4,707,685, 11-17-87, Cl. 340-573.000.

Carrier, Robert H.: *See*—
Apostolos, John T.; and Carrier, Robert H., 4,654,667, Cl. 342-445.000.

Carrig, Raymond D., Jr.: *See*—
Bizer, Jerry L.; and Carrig, Raymond D., Jr., 4,707,929, Cl. 33-507.000.

Carrigan, Andrew J. Short golf course and golf ball. 4,660,834, 4-28-87, Cl. 273-176.0AB.

Carrigan, Erwin R.: *See*—
Johnson, Harold R., III; Phillips, Allyn E.; Carrigan, Erwin R.; Virgo, Richard A.; and Mickelson, James E., 4,697,675, Cl. 192-7.000.

Carrington, Edward T.: *See*—
Beyer, Douglas E.; and Carrington, Edward T., 4,645,796, Cl. 525-84.000.

Carrington, James E.: *See*—
Bloom, Robert D.; Carrington, James E.; Ide, Richard A.; Traglia, Patrick J.; and Westcott, Gerald R., 4,649,501, Cl. 364-519.000.

Carrington, James H.: *See*—
Bisera, Jose; Carrington, James H.; and Weil, Max H., 4,638,811, Cl. 128-673.000.

Carrington, Larry: *See*—
Vees, Frederick; and Carrington, Larry, 4,664,961, Cl. 428-102.000.

Carrio, Pierre, to Coflexip. Apparatus to transfer fluid between a fixed structure and a rotatable structure by using at least one flexible conduit. 4,690,181, 9-1-87, Cl. 141-388.000.

Carrion, Hernan M.: *See*—
Mattioli, Stefano; and Carrion, Hernan M., 4,666,428, Cl. 128-79.000.

Carris, George M., to Westinghouse Electric Corp. Terminal base assembly for meter sockets. 4,690,483, 9-1-87, Cl. 439-517.000.

Carro-de-la-Fuente, Guillermo: *See*—
Canales-Santos, Enrique; Carro-de-la-Fuente, Guillermo; and Ruiz-Ontiveros, Saul R., 4,705,550, Cl. 65-32.000.

Carrol, Alan, to Trenchbond Limited. Apparatus for the liquid treatment of solids. 4,680,112, 7-14-87, Cl. 210-179.000.

Carroll, Arthur B.; and Carstedt, John K., to Carroll Touch Inc. Early fault detection in an opto-matrix touch input device. 4,645,920, 2-24-87, Cl. 250-221.000.

Carroll, Arthur B.; Hough, Stewart E.; Hunter, Paul R.; Carstedt, John K.; Shaw, Sam R.; and Garrett, James E., to Carroll Touch Inc. Signal preconditioning for touch entry device. 4,684,801, 8-4-87, Cl. 250-221.000.

Carroll, Bruce I. Alcohol fuel conversion apparatus for internal combustion engines. 4,635,608, 1-13-87, Cl. 123-557.000.

Carroll, Bruce I. Alcohol fuel conversion apparatus. 4,711,223, 12-8-87, Cl. 123-557.000.
Carroll, C. Braley: *See—*
  Bauernfeind, Robert A.; and Carroll, C. Braley, 4,660,313, Cl. 43-3.000.
Carroll, Charles. High security deadlocking door latch. 4,711,478, 12-8-87, Cl. 292-173.000.
Carroll, Charles B.; and Houston, David L., to RCA Corporation. Deflection yoke for adhesive assembly and mounting. 4,687,966, 8-18-87, Cl. 313-440.000.
Carroll, Clive R. E.: *See—*
  Bhattacharya, Sabyasachi; and Carroll, Clive R. E., 4,646,442, Cl. 33-141.00R.
Carroll, Curtis E. Rail car positioning system. 4,637,316, 1-20-87, Cl. 104-176.000.
Carroll, David L.: *See—*
  Tavss, Edward A.; Santalucia, John; and Carroll, David L., 4,693,395, Cl. 222-107.000.
Carroll, Davis L.: *See—*
  Tavss, Edward A.; Temin, Samuel; Santalucia, John; and Carroll, Davis L., 4,693,396, Cl. 222-107.000.
Carroll, Frank I.: *See—*
  Chiang, Peter K.; Richard, Michelle M.; Padilla, Felipe N.; Carroll, Frank I.; and Abraham, Philip, 4,713,391, Cl. 514-412.000.
Carroll, Gary T.; and Hunter, Robert D., to B.I. Incorporated. Time and accounting system. 4,658,357, 4-14-87, Cl. 364-406.000.
Carroll, Gordon L. Self-aligning trailer hitch. 4,657,275, 4-14-87, Cl. 280-477.000.
Carroll, James J.; Frind, Gerhard; and Van Noy, John H., to General Electric Company. Vacuum interrupter and method of modifying a vacuum interrupter. 4,661,665, 4-28-87, Cl. 200-144.00B.
Carroll, James J.: *See—*
  Frind, Gerhard; Carroll, James J.; Van Noy, John H.; Leach, John G.; and Ranjan, Radha K., 4,638,283, Cl. 337-162.000.
Carroll, John J.: *See—*
  Kabb, Harold L.; Flint, John R.; Videlock, Gary B.; Niazi, Ishfaq A.; Hendrickson, Kenneth L.; Slutsky, Gary S.; Schwalb, Stuart F.; Carroll, John J.; and Friedrich, Paul H., 4,699,504, Cl. 355-20.000.
Carroll, John O.; Boyce, Columbus O. L.; Wong, Theodore M.; and Starace, Charles A., to Novo Laboratories, Inc. Bread antistaling method. 4,654,216, 3-31-87, Cl. 426-20.000.
Carroll, Michael J.: *See—*
  Wedel, John A.; Carroll, Michael J.; Kassner, Michael P.; and Smith, Nathan R., 4,647,269, Cl. 414-421.000.
Carroll, Michael W.; and Harwood, Michael E., to North American Agricultural, Inc. Method and apparatus for forming an arcuate sheet metal seam. 4,692,980, 9-15-87, Cl. 29-243.520.
Carroll, Noel. Liquid separating apparatus. 4,659,461, 4-21-87, Cl. 210-104.000.
Carroll, Noel; and Phelps, Collin J., to Carroll, Noel. Enclosed cyclone separators. 4,673,495, 6-16-87, Cl. 210-232.000.
Carroll, Noel. Outlet for cyclone separators. 4,683,061, 7-28-87, Cl. 210-512.100.
Carroll, Noel. Oil recovery systems. 4,698,152, 10-6-87, Cl. 210-96.100.
Carroll, Noel: *See—*
  Prendergast, Gavan J. J., 4,710,299, Cl. 210-512.100.
Carroll, Richard J.; Luderer, Albert A.; Smith, Ward C.; and Zine, Anthony R., Jr., to Becton, Dickinson and Company. Separation of lymphocytes and monocytes from blood samples. 4,640,785, 2-3-87, Cl. 210-782.000.
Carroll, Robert, Jr. Long distance fishing system. 4,648,194, 3-10-87, Cl. 43-4.500.
Carroll, Ronnie D.; and Volkmann, Robert A., to Pfizer Inc. 6,6-dihalopenicillanic acid 1,1-dioxides and process. 4,714,761, 12-22-87, Cl. 540-310.000.
Carroll, Stephen F.: *See—*
  Collier, R. John; and Carroll, Stephen F., 4,709,017, Cl. 530-350.000.
Carroll, Thomas D.; and Akers, Clifford B. Disk drive assembly. 4,686,592, 8-11-87, Cl. 360-97.000.
Carroll Touch Inc.: *See—*
  Carroll, Arthur B.; and Carstedt, John K., 4,645,920, Cl. 250-221.000.
  Carroll, Arthur B.; Hough, Stewart E.; Hunter, Paul R.; Carstedt, John K.; Shaw, Sam R.; and Garrett, James E., 4,684,801, Cl. 250-221.000.
  Lucas, Paul B., 4,672,364, Cl. 340-365.00P.
  Masters, Timothy E.; and Wehrer, Wayne J., 4,713,534, Cl. 250-214.00B.
Carron, Alain: *See—*
  Simonin, Marcel; Garbe, Bernard; and Carron, Alain, 4,640,047, Cl. 49-47.000.
Carron, Claude, to Thomson-CGR. Continuous high d.c. voltage supply particularly for an X-ray emitter tube. 4,680,693, 7-14-87, Cl. 363-98.000.
Carron, Philippe: *See—*
  Balquet, Robert; Baubeau, Robert; Bertrand, Jean-Paul; Guezou, Jean-Pierre; and Carron, Philippe, 4,708,077, Cl. 114-67.00A.
Carrona, John J.: *See—*
  Walker, David M.; Sliski, Alan P.; Harte, Kenneth J.; and Carrona, John J., 4,661,709, Cl. 250-396.00R.
Carrott, John A.: *See—*
  Gray, Donald R.; Green, Lawrence R., III; Gendler, Robert L.; and Carrott, John A., 4,651,157, Cl. 342-457.000.
Carrow, Guy E., to Phillips Petroleum Company. Method and apparatus for molding hollow articles. 4,666,650, 5-19-87, Cl. 264-310.000.
Carrow, Guy E., to Phillips Petroleum Company. Method and apparatus for molding hollow articles. 4,690,632, 9-1-87, Cl. 425-429.000.
Carruth, H. T., Jr., to Chevron Research Company. Ground position controller and method for automatically indicating parameters that spatially cross-reference the locations of seismic spread and source arrays during exploration for hydrocarbons and the like. 4,661,934, 4-28-87, Cl. 367-37.000.
Carruth, H. T., Jr., to Chevron Research Company. Method and apparatus associated with a microcomputer system for automatically indicating a next-in-time positional parameter of an exploration system that includes two recording trucks. 4,674,068, 6-16-87, Cl. 367-77.000.
Carruthers, Alec R., to ALH Systems, Ltd. Mole with rotary vibrator. 4,705,116, 11-10-87, Cl. 175-19.000.
Carruthers, John: *See—*
  Gressett, Charles A., Jr.; Page, John F.; Smith, Daniel J.; and Carruthers, John, 4,677,891, Cl. 84-313.000.
Carruthers, John W.: *See—*
  Piche, Roland J.; and Carruthers, John W., 4,686,883, Cl. 84-313.000.
Carry, William B., to Milliken Research Corporation. Take-up tension control. 4,633,914, 1-6-87, Cl. 139-1.00R.
Cars & Concepts, Inc.: *See—*
  Cambria, Emanuel F., 4,637,649, Cl. 296-224.000.
  Draper, David L., 4,662,052, Cl. 29-401.100.
  Draper, David L., 4,695,090, Cl. 296-216.000.
  Wagner, John J., 4,668,006, Cl. 296-136.000.
Carse, Gregg D., to Pacific Bell. Low speed gate circuit. 4,706,241, 11-10-87, Cl. 370-60.000.
Carse, Gregg D.; and Daines, Bernard N., to Pacific Bell. Telephone system. 4,716,562, 12-29-87, Cl. 370-110.100.
Carsello, John P., to TBG Inc. Dimmer switch. 4,654,626, 3-31-87, Cl. 338-172.000.
Carson/Burger/Weekly, Inc.: *See—*
  Carson, David E.; and Barnhart, Gary A., 4,711,338, Cl. 198-396.000.
Carson, Culley: *See—*
  Goldwasser, Benad; and Carson, Culley, 4,711,240, Cl. 128-319.00
Carson, David E.; and Barnhart, Gary A., to Carson/Burger/Weekly, Inc. Lid feeding machine. 4,711,338, 12-8-87, Cl. 198-396.000.
Carson, David M.; and Weyant, Oakley L., Jr., to E.I. Du Pont de Nemours and Company. Rotor having frangible projections thereon. 4,693,702, 9-15-87, Cl. 494-61.000.
Carson, Dennis A., to Scripps Clinic and Research Foundation. Method for the preparation of anti-receptor antibodies. 4,683,295, 7-28-87, Cl. 530-391.000.
Carson, Dennis A.: *See—*
  Vaughan, John H.; Carson, Dennis A.; Rhodes, Gary; and Houghten, Richard, 4,654,419, Cl. 530-326.000.
Carson, Dennis W.; Schmitt, Robert J.; Seneker, Carl A.; Van Kuren, Thomas A.; and Wallace, David R., to PPG Industries, Inc. Flexible primer composition and method of providing a substrate with a flexible multilayer coating. 4,680,346, 7-14-87, Cl. 525-486.000.
Carson, Douglas T. Engine. 4,658,768, 4-21-87, Cl. 123-56.0BC.
Carson, Ernest A.; and Anderson, Gordon K., to Carrier Corporation. Latch. 4,660,872, 4-28-87, Cl. 292-242.000.
Carson, Forrest L., to J. M. Huber Corporation. Quick-connect hose coupling. 4,643,459, 2-17-87, Cl. 285-84.000.
Carson, James E.: *See—*
  Deck, Charles F.; and Carson, James E., 4,640,791, Cl. 252-75.00
Carson, John C.; and Clark, Stewart A., to Irvine Sensors Corporation. High-density electronic processing package—structure and fabrication. 4,646,128, 2-24-87, Cl. 357-74.000.
Carson, John C.; and Clark, Stewart A., to Irvine Sensors Corporation. Detector array module fabrication process. 4,672,737, 6-16-87, Cl. 29-572.000.
Carson, John C., to Irvine Sensors Corporation. Combined staring and scanning photodetector sensing system having both temporal and spatial filtering. 4,675,532, 6-23-87, Cl. 250-578.000.
Carson, John R., to McNeilab, Inc. Acetylenic phenoxypropanol derivatives and pharmaceutical compositions for the treatment of hypertension. 4,652,584, 3-24-87, Cl. 514-524.000.
Carson, John R., to McNeilab, Inc. Aralykyl (arylethynyl)aralkyl amines and their use as vasodilators and antihypertensives. 4,661,63 4-28-87, Cl. 564-374.000.
Carson, John R., to McNeilab, Inc. Heteroaromatic acetylenes useful as antihypertensive agents. 4,663,334, 5-5-87, Cl. 514-357.000.
Carson, John R., to McNeilab, Inc. Cyclopenta[b]thiophenes having anti-inflammatory activity similar to steroids. 4,692,460, 9-8-87, Cl. 514-443.000.
Carson, John R.: *See—*
  Carmosin, Richard J.; and Carson, John R., 4,683,239, Cl. 514-299.000.
  Carmosin, Richard J.; and Carson, John R., 4,689,329, Cl. 514-299.000.
  Carmosin, Richard J.; and Carson, John R., 4,716,172, Cl. 514-306.000.
Carson Manufacturing Company, Inc.: *See—*
  Carson, William H., 4,646,063, Cl. 340-384.00E.
  Carson, William H., 4,649,264, Cl. 235-54.00F.
Carson, Matthew; and LeMahieu, Ronald A., to Hoffmann-La Roche Inc. 5-substituted N-alkylated tetrazoles. 4,663,332, 5-5-87, Cl. 514-340.000.

arson, Matthew; Han, Ru-Jen L.; and LeMahieu, Ronald A., to Hoffmann-La Roche Inc. Derivatives of 4-acetyl-3-hydroxy-2-alkylphenoxycarboxylic acids. 4,672,066, 6-9-87, Cl. 514-256.000.

arson, Paul L.; and Detsch, Richard M., to University of Michigan, The Regents of the. Variable frequency gas-bubble-manipulating apparatus and method. 4,689,986, 9-1-87, Cl. 73-19.000.

arson, William G., to Rohm and Haas Co. Crystallizable polyester resin having high impact strength and dimensional stability. 4,713,268, 12-15-87, Cl. 428-35.000.

arson, William H., to Carson Manufacturing Company, Inc. Electronic siren with remote multiplexed control head. 4,646,063, 2-24-87, Cl. 340-384.00E.

rson, William H., to Carson Manufacturing Company, Inc. Electronic voting machine. 4,649,264, 3-10-87, Cl. 235-54.00F.

rson, William W., to Millipore Corporation. Apparatus for converting rotational motion to linear motion. 4,648,285, 3-10-87, Cl. 74-424.80C.

rsonite International Corporation: *See*—

Schmanski, Donald W., 4,674,432, Cl. 116-63.00P.

ssow, John F. Remote control price changing sign. 4,707,938, 1-24-87, Cl. 40-471.000.

stedt, John K.: *See*—

Carroll, Arthur B.; and Carstedt, John K., 4,645,920, Cl. 250-221.000.

Carroll, Arthur B.; Hough, Stewart E.; Hunter, Paul R.; Carstedt, John K.; Shaw, Sam R.; and Garrett, James E., 4,684,801, Cl. 250-221.000.

sten, Bruce W., to Eldec Corporation. Transformer rectifier. 635,179, 1-6-87, Cl. 363-70.000.

stens Health Industries, Inc.: *See*—

Block, George, 4,662,770, Cl. 402-80.00R.

tensen, Kenneth J. Coupling for tubing or casing and method of sembly. 4,706,997, 11-17-87, Cl. 285-13.000.

tersen, Gail: *See*—

Johnson, Randall, 4,692,846, Cl. 362-104.000.

tersen, Ronald: *See*—

Johnson, Randall, 4,692,846, Cl. 362-104.000.

well, Edwin R.: *See*—

McCann, Denis J.; and Carswell, Edwin R., 4,643,491, Cl. 303-118.000.

well, Joseph; and Ance, Louis, to BRIntec Corporation. Cable nger. 4,695,018, 9-22-87, Cl. 248-74.200.

, John: *See*—

Anderson, Robert D.; Estes, John D.; Carta, John; and Page, Gilbert J., 4,707,953, Cl. 52-63.000.

biano, Michael C.: *See*—

Murtha, Eugene A.; Johnson-Williams, Mark B.; Madison, Theodore N.; and Cartabiano, Michael C., 4,642,710, Cl. 360-79.000.

nt, Michel: *See*—

ietz, Bernard; van der Vliet, Jacques; and Cartant, Michel, 4,656,896, Cl. 82-1.00C.

e, Marsha J.: *See*—

arris, Frank R.; and Cartee, Marsha J., 4,669,755, Cl. 285-7.000.

lla, Pietro, to Tecnoteam S.N.C. di Tardito Dario e Cartella ro. Vehicular sports device able to travel over firm surfaces, soft aces or liquid surfaces. 4,655,717, 4-7-87, Cl. 440-27.000.

lieri, Wolfgang: *See*—

erlberger, Peter; Killmann, Irolt; and Cartellieri, Wolfgang, 4,643,022, Cl. 73-117.300.

, Alan T.; Carter, Lloyd W.; and Earl, Richard, to Carter Associ- . Collapsible sidewall structure for stackable bin. 4,700,862, 0-87, Cl. 220-6.000.

, Andrew C.; and Stewart, William J., to Plessey Overseas Lim- . Optical alignment apparatus utilizing prismatic elements. 6,030, 1-13-87, Cl. 350-96.180.

, Andrew C.; and Goodfellow, Robert C., to Plessey Overseas ited. Optical transmission systems. 4,652,080, 3-24-87, Cl. 96.190.

Associates: *See*—

rter, Alan T.; Carter, Lloyd W.; and Earl, Richard, 4,700,862, Cl. 220-6.000.

Bruce T.; and Isley, Henry A. Circuitry for controlling automo- headlights from windshield wipers. 4,656,363, 4-7-87, Cl. 307- LS.

Charles A.: *See*—

wner, Geoffrey F.; and Carter, Charles A., 4,694,910, Cl. 166-379.000.

Charles G., to Stauffer Chemical Company. Method for prepa- n of mercaptobenzoates. 4,692,545, 9-8-87, Cl. 560-18.000.

Charles G., to Stauffer Chemical Company. 2-(pyrimidinecar- l)-1,3-cyclohexanediones and their use as herbicidal agents. ,732, 11-24-87, Cl. 71-92.000.

Christopher F., to Plessey Overseas Limited. Pyroelectric tors. 4,701,619, 10-20-87, Cl. 250-338.000.

Clyde T., to Wells Electronics, Inc. RAM connector. 4,669,796, 7, Cl. 439-372.000.

Clyde T., to Wells Electronics, Inc. Chip connector. 4,678,255, 7, Cl. 439-267.000.

David C. M.: *See*—

verley, Simon G.; Carter, David C. M.; Clarke, Peter A.; Dowding, John G.; Hawkins, David M.; and Mitchell, Robert J. S., 4,690,604, Cl. 414-403.000.

bourn, Frank; Carter, David C. M.; and Griffiths, Allen F., 653,631, Cl. 198-778.000.

Dennis R., to Kirschner Medical Corporation. Osteosynthetic n plate. 4,683,878, 8-4-87, Cl. 128-92.0YP.

Carter, Donald L. Method of determining cylindricity and squareness. 4,644,261, 2-17-87, Cl. 324-61.00R.

Carter, Duane E.: *See*—

Davis, Cecil J.; Carter, Duane E.; and Jucha, Rhett B., 4,685,999, Cl. 156-643.000.

Carter-Duncan Corporation: *See*—

Kennedy, Bruce L.; Beller, Joseph K.; and Modjeski, Roger A., 4,644,289, Cl. 330-145.000.

Kennedy, Bruce L., 4,672,671, Cl. 381-61.000.

Carter, Garry L., to Medical Engineering Corporation. Method and apparatus for measuring dynamic fluid flow rate. 4,683,748, 8-4-87, Cl. 73-226.000.

Carter, Garry L., to Medical Engineering Corporation. Ureteral stent kit. 4,713,049, 12-15-87, Cl. 604-8.000.

Carter, George A., III; and Dooley, James L., to Photon Marketing Limited. Simulated shooting game with continuous transmission of target identification signals. 4,695,058, 9-22-87, Cl. 273-311.000.

Carter, George B.; and Manby, Alan P., to IMI Kynoch Limited. Methods of priming explosive devices. 4,640,724, 2-3-87, Cl. 149-109.600.

Carter, George B.; and Manby, Alan P., to IMI Kynoch Limited. Sporting ammunition. 4,676,164, 6-30-87, Cl. 102-204.000.

Carter, Guy T.; Greenstein, Michael; Goodman, Joseph J.; Borders, Donald B.; Maiese, William M.; and Testa, Raymond T., to American Cyanamid Company. Antibiotic LL-E19020 α and β. 4,705,688, 11-10-87, Cl. 424-122.000.

Carter, Jack W., to Northrop Corporation. Tool holder. 4,668,138, 5-26-87, Cl. 409-234.000.

Carter, Jeff C.; and Husted, Raymond R., to Xerox Corporation. Reproduction machine with a chain of sorter modules and a method to perform chaining tasks. 4,698,772, 10-6-87, Cl. 364-900.000.

Carter, John L.; and Sprague, Michael M. Ventilating system for dryers. 4,662,083, 5-5-87, Cl. 34-86.000.

Carter, John W., to Wise Company, Inc., The. Mechanism on a vehicle seat for adjusting stiffness of ride. 4,678,155, 7-7-87, Cl. 248-564.000.

Carter, John W., Jr.: *See*—

Kilmer, Lauren G.; and Carter, John W., Jr., 4,708,213, Cl. 175-78.000.

Carter, L. Philip: *See*—

Bro, William J.; and Carter, L. Philip, 4,677,985, Cl. 128-691.000.

Carter, Leewood C.; Neary, Robin P.; and Mullen, Robert, to Book Covers Inc. Apparatus for fabricating a box-like article. 4,636,185, 1-13-87, Cl. 493-127.000.

Carter, Leewood C.; and Neary, Robin P., to Book Covers Inc. Container and method of making a container with integral bottom panel and side panels. 4,685,610, 8-11-87, Cl. 229-23.00R.

Carter, Linda G., to Du Pont de Nemours, E. I., and Company. Phenyl-substituted sulfonamides. 4,659,368, 4-21-87, Cl. 71-92.000.

Carter, Lloyd W.: *See*—

Carter, Alan T.; Carter, Lloyd W.; and Earl, Richard, 4,700,862, Cl. 220-6.000.

Carter, Malcolm N. A.; and Scowen, Reginald V., to Lever Brothers Company. Detergent compositions. 4,711,740, 12-8-87, Cl. 252-174.240.

Carter, Moira A., to BIP Chemicals Limited. Thermoplastic polymer compositions. 4,656,206, 4-7-87, Cl. 523-351.000.

Carter, Nathan B., Jr.; and Ligon, Larry F. Boot with detachable spur. 4,642,910, 2-17-87, Cl. 36-1.000.

Carter, Neil A.; Harris, Ronald R.; and Ault, Russell L., to Owens-Corning Fiberglas Corporation. Method of making a lineal structural member. 4,681,722, 7-21-87, Cl. 264-171.000.

Carter, Ophelia L.: *See*—

Carter, Ransom M.; and Carter, Ophelia L., 4,702,381, Cl. 211-105.200.

Carter, Peter D.: *See*—

Chamberlin, Frederick C.; Whynacht, Charles; Carter, Peter D.; and Wilson, Charles S., 4,703,325, Cl. 340-825.170.

Carter, Philip S.; and Krumme, John F., to Metcal, Inc. Shielded heating element having intrinsic temperature control. 4,701,587, 10-20-87, Cl. 219-10.750.

Carter, Ransom M.; and Carter, Ophelia L. Towel protector. 4,702,381, 10-27-87, Cl. 211-105.200.

Carter, Richard G., to English Electric Valve Company Limited. Coupled cavity travelling wave tubes. 4,709,186, 11-24-87, Cl. 315-3.500.

Carter, Robert E.; and Murphy, Donald R., to Piezo Electric Products, Inc. Aerosol dispenser. 4,702,418, 10-27-87, Cl. 239-101.000.

Carter, Robert J.; and Pecis, John G., to Folger Adam Company. Security door hinge system with locking elements. 4,704,767, 11-10-87, Cl. 16-388.000.

Carter, Russell W., to Corn States Metal Fabricators, Inc. Venting unit for a rubber article forming mold having vents. 4,662,833, 5-5-87, Cl. 425-28.00R.

Carter, Scott K.; and Mendenhall, George A., to GME, Inc. Method and apparatus for production of onion rings. 4,656,909, 4-14-87, Cl. 83-874.000.

Carter, Stanley D.; and Scott, Blayney, to Fireflex Manufacturing, Ltd. Firefighting back tank and pump. 4,688,643, 8-25-87, Cl. 169-33.000.

Carter-Wallace, Inc.: *See*—

Soldati, Gianluigi, 4,673,570, Cl. 424-66.000.

Carter, Walter H.; and Srivastava, Vinai K., to Millmaster Onyx Group, Inc. Enzymatically-treated guar gums. 4,682,654, 7-28-87, Cl. 166-308.000.

Carter, Walter H.; and Srivastava, Vinai K., to Millmaster Onyx Group, Inc. Enzymatically-treated guar gums. 4,693,982, 9-15-87, Cl. 435-274.000.

Carter, William, to Bussell, Ray V. Combination economizer valve and locking means for oxygen supply system. 4,664,146, 5-12-87, Cl. 137-599.000.

Carter, William S., to Xilinx, Inc. Special interconnect for configurable logic array. 4,642,487, 2-10-87, Cl. 307-465.000.

Carter, William S., to Xilinx, Inc. Bidirectional buffer amplifier. 4,695,740, 9-22-87, Cl. 307-242.000.

Carter, William S., to Xilinx, Inc. Configurable logic element. 4,706,216, 11-10-87, Cl. 365-94.000.

Carter, William S., to Xilinx, Inc. Bidirectional buffer amplifier. 4,713,557, 12-15-87, Cl. 307-242.000.

Carternock, Frederick A.; and Knackstedt, Jack S., to Drazil, Jaromir Vaclav. Material working machine with vibrating tool carrier. 4,679,337, 7-14-87, Cl. 37-118.00R.

Carters (J & A) Limited: *See—*

Collins, Donald E., 4,664,441, Cl. 297-183.000.

Cartesse, Georges, to Societe Generale pour l'Industrie Electronique (S.O.G.I.E.), S.A. Multiple contact connector casing and device for locking contact carrier in casing. 4,659,162, 4-21-87, Cl. 339-128.000.

Cartheuser, Kent H.: *See—*

Henson, Robert M.; and Cartheuser, Kent H., 4,670,217, Cl. 420-562.000.

Cartier, Claude J.; Guilhem, Jean R. R.; Guilhem, Jacques R. J.; and Wenger, Roger L. L., to Societe Generale d'Etudes et de Materiels Industriels Navals et Informatiques. Apparatus for the treatment of oedema of members by pressure. 4,648,392, 3-10-87, Cl. 128-160.000.

Cartier, George E.; and Farmer, Peter H., to Monsanto Company. Polyvinyl butyral sheet roughness control. 4,654,179, 3-31-87, Cl. 264-176.100.

Cartier Industrie: *See—*

Schomblond, Jacques, 4,682,943, Cl. 425-130.000.

Schomblond, Jacques, 4,708,614, Cl. 425-120.000.

Schomblond, Jacques, 4,711,621, Cl. 425-120.000.

Cartier, Philip A.: *See—*

Holmgren, Mark E.; Parrish, Gregory K.; and Cartier, Philip A., 4,710,393, Cl. 426-660.000.

Cartillier, Andre: *See—*

Autant, Pierre; Cartillier, Andre; and Quentin, Jean-Pierre, 4,675,175, Cl. 424-33.000.

Cartin, Andrew J.: *See—*

Brown, Stewart L.; and Cartin, Andrew J., 4,675,621, Cl. 333-1.100.

Cartledge, Robert, to Shepard & Associates. Document carrier. 4,712,820, 12-15-87, Cl. 294-138.000.

Cartlidge, Jesse M., to Inductotherm Corporation. Multiple induction furnace system using single power supply. 4,695,316, 9-22-87, Cl. 75-10.140.

Cartmell, James V.; Burcham, Larry R.; and Wolf, Michael L., to American Hospital Supply Corporation. Medical electrode with reusable conductor. 4,635,642, 1-13-87, Cl. 128-639.000.

Cartmell, James V.; and Storms, William E., to Baxter Travenol Laboratories, Inc. Medical electrode with reusable conductor. 4,653,501, 3-31-87, Cl. 128-640.000.

Cartmell, James V.; and DeRosa, Joseph F., to American Hospital Supply Corporation. Capacitively coupled indifferent electrode. 4,669,468, 6-2-87, Cl. 128-303.130.

Cartmell, James V., to American Hospital Supply Corporation. Medical electrode. 4,674,511, 6-23-87, Cl. 128-640.000.

Cartmell, James V.; Allaire, Michael J.; Burcham, Larry R.; and Patrick, Charles T., Jr., to American Hospital Supply Corporation. X-ray transparent medical electrodes and lead wires and assemblies thereof. 4,685,467, 8-11-87, Cl. 128-640.000.

Cartmell, James V.; Burcham, Larry R.; and Wolf, Michael L., to American Hospital Supply Corporation. Method of manufacturing medical electrode pads. 4,699,679, 10-13-87, Cl. 156-242.000.

Cartmell, Robert L.; Daugherty, Charles W.; and Ireland, David B., to Deseret Medical, Inc. Intravenous infusion assembly formed as an integral part. 4,710,175, 12-1-87, Cl. 604-177.000.

Cartmell, Robert R.; and Horecky, Carl J., to Standard Oil Company (Indiana). Apparatus for mixing cracking catalyst with a fluid hydrocarbon. 4,711,766, 12-8-87, Cl. 422-140.000.

Cartner, Jack O. Four-way reversible ditcher blades. 4,712,320, 12-15-87, Cl. 37-92.000.

Cartoplast Bertesi S.p.A.: *See—*

Bertesi, Ezio; and Bertesi, Marco, 4,652,165, Cl. 402-4.000.

Cartotecnica Chierese S.p.A.: *See—*

Benedicenti, Pio Gabriele, 4,674,998, Cl. 493-164.000.

Cartotecnica Tifernate S.p.A.: *See—*

Fronduti, Domenico, 4,641,777, Cl. 229-110.000.

Fronduti, Domenico, 4,671,449, Cl. 229-19.000.

Cartrex: *See—*

Falk, Mervin L., 4,674,703, Cl. 242-199.000.

Henderson, James J.; and Newell, Chester W., 4,697,759, Cl. 242-179.000.

Cartwright Engineering, Inc.: *See—*

McDonald, Thomas W., 4,683,446, Cl. 331-47.000.

Cartwright, James E.: *See—*

Bourke, Edward L., and Cartwright, James E., 4,697,617, Cl. 137-549.000.

Cartwright, James M., Jr., to RCA Corporation. Integrated circuits with electrically erasable electrically programmable latch circuits therein for controlling operation. 4,652,773, 3-24-87, Cl. 307-469.000.

Cartwright, John S., to AT&T Technologies, Inc. Spring clip transfer apparatus. 4,674,166, 6-23-87, Cl. 29-240.000.

Cartwright, John S., to American Telephone and Telegraph Company, AT&T Technologies, Inc. Methods for transferring spring clips. 4,689,866, 9-1-87, Cl. 29-426.600.

Cartwright, Kenneth L., to Constagrip, Inc. Reversible wrench having instantaneously gripping friction drive. 4,669,339, 6-2-87, C 81-59.100.

Cartwright, Richard D. Exercise machine with improved load varying arrangement. 4,650,185, 3-17-87, Cl. 272-117.000.

Cartwright, William: *See—*

Chand, Sujeet; Amis, Jack B.; Cartwright, William; Sadre, Ahmad and Kossey, Robert M., 4,663,726, Cl. 364-513.000.

*Carty, John J. Chimney stack having erodable liner with electrica generating capacity. 4,681,025, 7-21-87, Cl. 98-58.000.

Carty, Michael W.; and Kraus, Guenther M., to Combustion Engineering, Inc. Wear-resistant pipe. 4,633,913, 1-6-87, Cl. 138-147.000.

Carty, Noel C.: *See—*

Lee, Kevin J.; and Carty, Noel C., 4,685,656, Cl. 256-13.100.

Carusillo, Steven J., to Johnson Service Company. Capacitance transducing method and apparatus. 4,661,768, 4-28-87, Cl. 324-60.00C

Caruso, Michele: *See—*

Bargiotti, Alberto; Caruso, Michele; Suarato, Antonino; Penc Sergio; and Giuliani, Fernando, 4,684,629, Cl. 514-34.000.

Caruso, Nancy J.; and Masto, Michael H., to North American Philip Electric Corporation. Method of manufacturing metal halide lamp 4,643,690, 2-17-87, Cl. 445-6.000.

Caruso, Peter J.; and Townsend, Robert R., to Allied Corporatio High reliability solenoid switch. 4,636,761, 1-13-87, Cl. 335-140.00

Caruso, Richard. Hair curler. 4,687,010, 8-18-87, Cl. 132-33.00R.

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Carvalette Services Africa (PTY) Limited: *See—*

Davis, Bender A., 4,662,671, Cl. 296-217.000.

Carvalho, Paul A., to United Technologies Corporation. Two level dam. 4,693,672, 9-15-87, Cl. 416-174.000.

Carver, Franklin J.; and Gerula, Theodore J., to Coulter Electronic Inc. Hematology control compositions for three populations of leu cytes; and methods for their preparation and use in whole bloo control systems. 4,704,364, 11-3-87, Cl. 436-10.000.

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Carver, George C.: *See—*

St. Angelo, Stephen; Carver, George C.; Patterson, David W.; an Fremont, Owen K., 4,715,110, Cl. 29-701.000.

Carveth, Peter; Stone, Albert; and White, L. Alan, to Baxter Traven Laboratories, Inc. Thermoplastic foam fitment. 4,657,152, 4-14-87, C 215-249.000.

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Carville, Robin K. Patient restraint device. 4,699,132, 10-13-87, C 128-134.000.

Cary, Arthur P.; and Lyons, Leslie W. Easy to lock deadbolt structure 4,712,396, 12-15-87, Cl. 70-129.000.

Cary, Jeffrey W.: *See—*

Srinivasan, Vadake R.; Cary, Jeffrey W.; Chon, Younghae; an Narva, Kenneth E., 4,713,336, Cl. 435-155.000.

Cary, John W. Bow sight. 4,646,444, 3-3-87, Cl. 33-265.000.

Cary, Paul: *See—*

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Casablanca Fan Company, Inc.: *See—*

Ligman, James R., 4,658,197, Cl. 318-812.000.

Casad, Burton M.; Soni, Yogendra; and Jurinak, Jeff J., to Conoco Inc. Solvent enhanced fracture-assisted steamflood process. 4,687,05 8-18-87, Cl. 166-263.000.

Casada, Edwin I. Extension ladder caddy. 4,653,608, 3-31-87, C 182-121.000.

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Casais-Alvarez, Maria-Teresa: *See—*

Garcia-Clavel, Maria-Emilia; Martinez-Lope, Maria-Jesus; and Casais-Alvarez, Maria-Teresa, 4,670,231, Cl. 423-127.000.

Casalatina, Silvano: *See—*

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Casale, Rudy J. Automobile convertible seat. 4,664,443, 5-12-87, Cl. 297-238.000.

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Skuballa, Werner; Raduchel, Bernd; Vorbruggen, Helmut; Mannesmann, Gerda; Losert, Wolfgang; and Casals-Stenzel, Jorge, 4,692,464, Cl. 514-530.000.

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Casamento, Roberto: *See—*

Bertozzi, Marcello; and Casamento, Roberto, 4,707,766, Cl. 362-11.000.

Casanova, Damien, to Mavilor Systemes S.A. Brush-holder for flat-commutator electromechanical transducer. 4,639,629, 1-27-87, Cl. 310-248.000.

Casanova, Damien, to Mavilor Systemes S.A. Electric motor with deformable disk brake. 4,684,838, 8-4-87, Cl. 310-93.000.

Casanova, Giuseppe; and De Zolt, Ivano, to Costan S.p.A. Tilting cold cabinet. 4,635,447, 1-13-87, Cl. 62-448.000.

Casarcia, Dominick A., to General Electric Company. Apparatus for supporting an eddy current probe used to scan an irregular surface. 4,644,274, 2-17-87, Cl. 324-262.000.

Casaretto, Monika: *See—*

Jolles, Pierre; Migliore-Samour, Daniele; Parker, Fabienne; and Casaretto, Monika, 4,637,997, Cl. 514-17.000.

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Casarotto, John D.: *See—*

Powell, Thomas A.; Kolnes, Kenneth O.; Sprenger, Kenneth J.; Casarotto, John D.; Whitney, Kenneth P.; and Hammer, Gerald M., 4,654,957, Cl. 29-568.000.

Casas, Alain: *See—*

Martinet, Roland; and Casas, Alain, 4,640,311, Cl. 137-884.000.

Casasent, David, to Teledyne Industries, Inc. General time, space and frequency multiplexed acousto-optic correlator. 4,641,273, 2-3-87, Cl. 364-822.000.

Casasent, David, to Teledyne Industries, Inc. Space-multiplexed time-integrating acousto-optic correlators. 4,660,167, 4-21-87, Cl. 364-822.000.

Casati, Paolo; and Fuganti, Claudio, to Sclavo S.p.A. Process for the preparation of L-carnitine. 4,664,852, 5-12-87, Cl. 260-501.130.

Cascade Corporation: *See—*

Farmer, Stanley E.; and Seaberg, Richard D., 4,708,575, Cl. 414-607.000.

House, Marshall K., 4,682,931, Cl. 414-623.000.

Olson, John E., 4,714,399, Cl. 414-621.000.

Seaberg, Richard D., 4,699,565, Cl. 414-785.000.

Cascade Industries, Inc.: *See—*

Zikmanis, Harijs; Prezlock, James; and Lahaski, Paul, 4,635,304, Cl. 4-506.000.

Cascade Microtech, Inc.: *See—*

Lockwood, Larry R.; Gleason, Kimberly R.; and Strid, Eric W., 4,697,143, Cl. 324-158.00P.

Felix G., to Latimer N.V. Method and device for supplying e and air to an internal combustion engine. 4,714,065, 12-22-87, Cl. -452.000.

Chem, Inc.: *See—*

Brauer, Melvin; Downey, William J.; and Naughton, Frank C., 4,666,969, Cl. 524-310.000.

Brauer, Melvin; Downey, William J.; and Naughton, Frank C., 4,705,723, Cl. 428-375.000.

Downey, William J.; Brauer, Melvin; and Chao, Jerry C., 4,666,968, Cl. 524-296.000.

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mone, Dominic; and Brauer, Melvin, 4,640,801, Cl. 260-407.000.

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g, Kuldip; and Casciari, Raoul, 4,692,826, Cl. 360-97.000.

Products Corporation: *See—*

tz, Edward J.; and Pesapane, Dominic, 4,713,733, Cl. 362-80.000.

upoli, Peter J.; and Mattis, Donald J., 4,634,834, Cl. 219-208.000.

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upoli, Peter J.; and Mattis, Donald J., 4,694,128, Cl. 200-84.00R.

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sapane, Dominic, 4,713,017, Cl. 439-142.000.

stover, Brooke N.; Comerford, John J.; and Mattis, Donald J., 4,669,185, Cl. 29-882.000.

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e, Michael. Removable drawbar for trailers. 4,697,819, 10-6-87, 280-491.00E.

Cascone, Ronald F.: *See—*

Chang, Tsuan Y.; Yeoman, Neil; and Cascone, Ronald F., 4,661,624, Cl. 560-232.000.

Casdas, Spyridon; Langon, Bernard; and Michard, Laurent, to Aluminium Pechiney. Hall-Heroult electrolysis tank with asymmetrical cathodic bars and heat insulation. 4,654,133, 3-31-87, Cl. 204-243.00M.

Case, Allen W., Jr.; Lund, Richard M.; Miller, Stuart G.; and Peroutky, Donald C., to General Electric Company. Robotics tool carrier assembly. 4,664,587, 5-12-87, Cl. 414-680.000.

Case, Allen W., Jr.: *See—*

Lillquist, Robert D.; and Case, Allen W., Jr., 4,711,986, Cl. 219-130.010.

Case, Cecil L.: *See—*

Pruitt, Martin E.; Case, Cecil L.; and Fritz, David P., 4,637,201, Cl. 56-16.400.

Case Communications, Inc.: *See—*

Tretter, Steven A.; Redick, Robert P.; Stuart, Richard L.; Treynor, Paul E.; and Gordon-Smith, David, 4,646,305, Cl. 371-43.000.

Case-Hoyt: *See—*

Hagler, Andrew J., 4,700,627, Cl. 101-426.000.

Case, Laura K.; Gajria, Chandrasen; Loftin, Rachel M.; and Peper, Henry, to Gillette Company, The. Ball-point writing instrument containing an aqueous ink composition. 4,671,691, 6-9-87, Cl. 401-142.000.

Case, Leo L.: *See—*

Bassett, I. Jay; and Case, Leo L., 4,663,014, Cl. 204-299.0EC.

Case, Marion D. Hay fragrance. 4,634,549, 1-6-87, Cl. 252-522.00R.

Case, Roger: *See—*

Neel, Jean-Philippe; Case, Roger; and Garnier, Gilbert, 4,710,738, Cl. 335-172.000.

Case, Steven K.: *See—*

Konicek, Lawrence R.; Case, Steven K.; and Kachman, Gerald M., 4,680,704, Cl. 364-525.000.

Case Vibromax GmbH & Co KG: *See—*

Lietzke, Heinz, 4,689,955, Cl. 60-420.000.

Case, Wayne A.; and Burt, James R., to Kwik Products Corp. Gage for measuring fluted oil field tubular members. 4,649,651, 3-17-87, Cl. 33-178.00B.

Case Western Reserve University: *See—*

Jones, Janice L.; and Jones, Ronald E., 4,637,397, Cl. 128-419.00D.

Liu, Chung-Chiun, 4,655,880, Cl. 204-1.00T.

Ungar, Ira J.; and Mortimer, J. Thomas, 4,649,936, Cl. 128-784.000.

Casellas, Pierre; Gros, Pierre; and Jansen, Franz, to Sanofi. Anti-cancer drugs for the treatment of leukaemias T, constituted by the chain A of ricin and a specific monoclanal antibody. 4,643,895, 2-17-87, Cl. 424-85.000.

Caselli, Joseph M., Sr. Leadered fishing lure holder with means for receiving leader and hooks. 4,680,886, 7-21-87, Cl. 43-57.100.

Casenhiser, Elaine J. Fingertip cover. 4,694,843, 9-22-87, Cl. 132-73.000.

Caserio, Domenico; Mignini, Elio; and Davot, Micheline M. J., to Lever Brothers Company. Cosmetic composition. 4,664,910, 5-12-87, Cl. 424-70.000.

Caserza, David D.; and Russell, John W., to FMC Corporation. Device for test firing of guns without ammunition. 4,686,886, 8-18-87, Cl. 89-11.000.

Casey, Charles J.: *See—*

Egert, Allen C.; Casey, Charles J.; and Negro, Claudio P., 4,667,931, Cl. 251-340.000.

Casey, Daniel K.; and Lee, Eddie C., to Honeywell Inc. High efficiency metal lift-off process. 4,662,989, 5-5-87, Cl. 156-655.000.

Casey, Daniel T., to AMP Incorporated. Terminating apparatus. 4,682,400, 7-28-87, Cl. 29-564.700.

Casey, Donald J.; Jarrett, Peter K.; and Rosati, Louis, to American Cyanamid Company. Diblock and triblock copolymers. 4,716,203, 12-29-87, Cl. 525-408.000.

Casey, Donald J.: *See—*

Wang, David W.; Casey, Donald J.; and Lehmann, Leonard T., 4,705,820, Cl. 524-381.000.

Casey, Francis J.; DePass, Ernest T.; and Gilman, Kevin R., to Enviro-Clear Company, Inc. Fluid film bearing for use in horizontal belt vacuum filters. 4,673,514, 6-16-87, Cl. 210-783.000.

Casey, Frank, to General Engineering Radcliffe Limited. Vacuum coating apparatus. 4,692,233, 9-8-87, Cl. 204-298.000.

Casey, Frank; and Downing, Paul A., to General Engineering Radcliffe Limited. Vacuum coating apparatus. 4,693,803, 9-15-87, Cl. 204-298.000.

Casey, Gary L., to Allied Corporation. Mini injector valve. 4,643,359, 2-17-87, Cl. 239-585.000.

Casey, Gordon C., Jr. Cutting tool for opening rod cans. 4,670,987, 6-9-87, Cl. 30-443.000.

Casey, Irene; and Tuse, Daniel, to Casey, Larry; and Casey, Irene. Aerosol germicide and dye. 4,678,658, 7-7-87, Cl. 424-7.100.

Casey, Jeremiah P.: *See—*

Milligan, Barton; Starner, William E.; Grandin, Roland E.; and Casey, Jeremiah P., 4,683,279, Cl. 528-67.000.

Casey, John P., Sr.: *See—*

Braychak, Joseph J.; and Casey, John P., Sr., 4,708,553, Cl. 411-34.000.

Casey, Kenneth, to Du Pont Canada Inc. Explosive device and method of use therefor. 4,646,641, 3-3-87, Cl. 102-306.000.

Casey, Larry: *See—*

Casey, Irene; and Tuse, Daniel, 4,678,658, Cl. 424-7.100.

Casey, Robert, to Dover Corporation. Dolly for towing vehicles. 4,696,484, 9-29-87, Cl. 280-43.160.

- Casey, Robert F.; and Law, Kirk A., to RCA Corporation. Image transition detector. 4,656,501, 4-7-87, Cl. 358-31.000.
- Casey, Robert F.; and Weckenbrock, Hermann J., to RCA Corporation. Progressive scan processor employing interpolation in luminance channel controlled by a motion signal and a vertical detail representative signal. 4,672,445, 6-9-87, Cl. 358-140.000.
- Casey, Robert F., to RCA Corporation. Progressive scan display system having intra-field and inter-field processing modes. 4,698,675, 10-6-87, Cl. 358-140.000.
- Casey, Robert F., to RCA Corporation. Digital threshold detector with hysteresis. 4,700,365, 10-13-87, Cl. 375-76.000.
- Casey, Robert F., to RCA Corporation. Chrominance signal frequency converter as for a pix-in-pix television receiver. 4,712,130, 12-8-87, Cl. 358-22.000.
- Casey, Robert F.: *See*—
  - Weckenbrock, Hermann J.; Roeder, Barbara J.; Casey, Robert F.; Harwood, Leopold A.; and Wedam, Werner F., 4,651,211, Cl. 358-166.000
- Casey, Thomas A.; Rice, Miles L.; Keough, William B.; Rothenbuhler, Dan E.; and Trimble, Bruce E., to Marine Partners. Stability indicator for marine vessel. 4,647,928, 3-3-87, Cl. 340-98.400.
- Casey, Thomas J., to Thomas Engineering, Inc. Method and apparatus for coating particulate granules. 4,639,383, 1-27-87, Cl. 427-213.000.
- Casey, Walter P., Jr. Reverse osmosis water purification element and cartridge. 4,715,952, 12-29-87, Cl. 210-136.000.
- Cash, Damon L. Convertible maternity non-maternity apparel. 4,683,595, 8-4-87, Cl. 2-105.000.
- Cash, Gordon G., to Olin Corporation. Paper sizing and composition and method. 4,671,855, 6-9-87, Cl. 162-158.000.
- Cashaw, Alan G.; Cole, Robert; Holmes, Rory; Whitaker, Herbert L., Jr.; and Jackson, Lauren, to Chicopee Corporation. Operating room gown and drape fabric with improved repellent properties. 4,705,712, 11-10-87, Cl. 428-152.000
- Cashman, Joseph B., to CSS Management Corp. Metal recovery process. 4,655,829, 4-7-87, Cl. 75-101.00R.
- Casier, Yves; Cassagne, Philippe; Dore, Bernard; and Gicquel, Sylvain, to Gaz de France. Method of heating any building or room and apparatus for carrying out the said method. 4,638,943, 1-27-87, Cl. 237-7.000.
- Casier, Yves; Cassagne, Philippe; Gicquel, Sylvain; and Junet, Roland, to Gaz de France. Method of producing hot air and hot water for sanitary purposes and apparatus for carrying out the said method. 4,640,458, 2-3-87, Cl. 237-17.000.
- Casimir, Manfred; Graf, Paul; and Stumpf, Joachim, to Daimler-Benz Aktiengesellschaft. Vibration damper for vehicles. 4,653,617, 3-31-87, Cl. 188-319.000.
- Casio Computer Co., Ltd.: *See*—
  - Akutsu, Takashi, 4,662,261, Cl. 84-1.010.
  - Aoki, Hisashi; Kodera, Kaoru; and Okugawa, Tetsuo, 4,668,050, Cl. 350-349.000.
  - Bito, Hiroyasu, 4,684,791, Cl. 235-380.000.
  - Bitoh, Hiroyasu, 4,676,676, Cl. 400-120.000.
  - Endoh, Kenji; Narui, Fumio; Sugiyama, Kazuhiro; Hara, Kazuya; and Shimazaki, Tatsuo, 4,668,314, Cl. 156-64.000.
  - Fujii, Hiroshi, 4,644,352, Cl. 340-825.440.
  - Fujimura, Koh; and Aoki, Hisashi, 4,647,156, Cl. 350-339.00R.
  - Fujimura, Koh; and Endo, Kenzo, 4,688,899, Cl. 350-346.000.
  - Fukaya, Hideshi; Hoshii, Toshifumi; and Yuzawa, Keiji, 4,633,751, Cl. 84-1.030.
  - Fuse, Takahiro; Kawamura, Masao; Yamagishi, Koji; Odachi, Kazuyuki; Ono, Haruo; and Kizaki, Masaharu, 4,642,693, Cl. 358-236.000.
  - Hanzawa, Kohtaro; Morikawa, Shigenori; Morokuma, Hiroshi; and Sasaki, Hiroyuki, 4,667,556, Cl. 84-1.010.
  - Hara, Kazuya, 4,670,664, Cl. 307-150.000.
  - Hara, Kazuya, 4,697,073, Cl. 235-487.000.
  - Hara, Kazuya, 4,714,980, Cl. 361-395.000
  - Hashidate, Katsuro, 4,692,887, Cl. 364-720.000.
  - Hirota Satoshi; and Nagamine, Kimihiro, 4,679,952, Cl. 400-279.000.
  - Honjo, Yoshiaki, 4,672,280, Cl. 318-587.000.
  - Honjo, Yoshiaki; and Shioya, Masaharu, 4,683,973, Cl. 180-252.000.
  - Honjo, Yoshiaki, 4,685,147, Cl. 382-66.000.
  - Iba, Akio, 4,653,374, Cl. 84-1.010.
  - Ishibashi, Masanori, deceased, 4,658,691, Cl. 84-1.190.
  - Ishikawa, Tomohisa, 4,656,428, Cl. 328-14.000.
  - Kanke, Takao; Takashima, Susumu; and Inagaki, Naoki, 4,653,099, Cl. 381-51.000.
  - Kawana, Shigeyuki, 4,697,072, Cl. 235-380.000.
  - Kitchener, Robert A., 4,650,975, Cl. 235-375.000.
  - Kizaki, Masaharu; and Shibazaki, Shigeru, 4,671,634, Cl. 353-122.000.
  - Kurakake, Sigeo; and Ogasawara, Satoshi, 4,661,904, Cl. 364-200.000.
  - Maekawa, Nobuaki; Shimizu, Shigeru; Dohi, Masaaki; and Kuriyama, Yoji, 4,660,962, Cl. 355-15.000.
  - Matsumoto, Naoaki, 4,651,612, Cl. 84-1.030.
  - Matsumoto, Naoaki, 4,662,262, Cl. 84-1.030.
  - Minamitaka, Junichi; and Nogimura, Tsunehisa, 4,699,037, Cl. 84-1.100.
  - Minamitaka, Junichi, 4,700,605, Cl. 84-1.240.
  - Mitarai, Tsuyoshi, 4,655,112, Cl. 84-1.030.
  - Morikawa, Shigenori; Hanzawa, Kohtaro; Sasaki, Hiroyuki; and Morokuma, Hiroshi, 4,681,008, Cl. 84-1.280.
  - Morikawa, Shigenori; and Sasaki, Hiroyuki, 4,700,604, Cl. 84-1.030.
  - Nakano, Harumi; and Shinmura, Yoshihito, 4,677,569, C 364-513.500.
  - Nakano, Harumi, 4,692,601, Cl. 235-380.000
  - Nakayama, Jin, 4,716,529, Cl. 364-410.000.
  - Nakazawa, Eiji, 4,652,140, Cl. 368-74.000.
  - Nakazawa, Eiji, 4,657,405, Cl. 368-110.000.
  - Naruki, Yukio; and Yasuda, Takeshi, 4,649,400, Cl. 346-76.0PH.
  - Ninomiya, Masao; Takashima, Susumu; Fukushima, Kazumas Yuyama, Masami; and Kurosawa, Kazuyuki, 4,712,243, C 381-43.000.
  - Ohta, Morio; Tsuchiya, Shizuo; Nakano, Yoshito; Aikawa, Masar and Asaumi, Seiji, 4,641,156, Cl. 346-160.000
  - Ohta, Morio; and Tsuchiya, Shizuo, 4,649,404, Cl. 346-160.00
  - Oishi, Mitsugu; and Kanai, Hidefumi, 4,634,259, Cl. 355-4.000.
  - Okuda, Hiroko; Sakurai, Keiichi; and Minamitaka, Junich 4,643,068, Cl. 84-1.030.
  - Okuda, Hiroko; and Iwase, Hiroshi, 4,685,370, Cl. 84-1.030.
  - Okuyama, Masayoshi; Kido, Yukio; Mimura, Isao; and Nakajima Etsuro, 4,697,931, Cl. 368-223.000.
  - Ootsuka, Tetsuo, 4,636,971, Cl. 364-709.000.
  - Sakashita, Shigeo, 4,648,115, Cl. 381-17.000.
  - Sakashita, Shigeo, 4,683,794, Cl. 84-1.030.
  - Sakurai, Keiichi, 4,635,519, Cl. 84-1.170.
  - Sakurai, Keiichi; and Kayahara, Takehiko, 4,646,610, Cl. 84-1.0
  - Sakurai, Keiichi, 4,656,911, Cl. 84-1.030.
  - Sakurai, Keiichi, 4,674,384, Cl. 84-1.030.
  - Sakurai, Keiichi, 4,710,826, Cl. 360-9.100.
  - Sasakawa, Hirotaka, 4,697,214, Cl. 360-85.000.
  - Sasaki, Hiroyuki; and Hanzawa, Kohtaro, 4,691,608, Cl. 84-1.01
  - Sestero, Arrigo, 4,664,010, Cl. 84-1.010
  - Shibasaki, Sohei; Iwasaki, Yasumasa; Ono, Noriki; Arai, Koich Maruyama, Koji; and Shimanari, Tatsumi, 4,648,706, C 355-43.000.
  - Shibasaki, Sohei; Iwasaki, Yasumasa; and Ono, Noriki, 4,687,3 Cl. 355-5.000.
  - Shigenaga, Yoshimi, 4,710,613, Cl. 235-380.000.
  - Shinbori, Yoshiaki, 4,661,000, Cl. 400-83.000.
  - Shinohara, Isao; and Yoshimoto, Itsuro, 4,694,723, Cl. 84-1.030.
  - Shoji, Hideyuki; and Usui, Kazufumi, 4,634,953, Cl. 320-1.000.
  - Suetaka, Hiroyuki, 4,671,671, Cl. 368-69.000.
  - Sugiyama, Kazuhiro; and Kawai, Yoshio, 4,680,432, Cl. 200-5.0
  - Sugiyama, Kazuhiro; and Shimazaki, Tatsuo, 4,680,724, C 364-708.000.
  - Sunada, Takuya, 4,65[illegible],114, Cl. 84-1.190.
  - Suzuki, Toshiyuki, 4,636,087, Cl. 368-185.000.
  - Takahashi, Hiroshi, 4,649,481, Cl. 364-405.000.
  - Takashima, Susumu; Tokimoto, Toyotarou; and Kurosawa Kazuyuki, 4,633,748, Cl. 84-1.010.
  - Tanazawa, Masayoshi; Shoji, Masaru; and Yamada, Watar 4,711,584, Cl. 368-88.000.
  - Tsuji, Akio, 4,636,996, Cl. 367-93.000.
  - Tsuji, Akio, 4,658,385, Cl. 367-105.000.
  - Uesugi, Yoshinori, 4,712,196, Cl. 365-229.000.
  - Usui, Minoru, 4,656,535, Cl. 360-72.100.
  - Yamagishi, Koji; Fuse, Takahiro; Kawamura, Masao; and Mats Shinichi, 4,642,694, Cl. 358-236.000.
  - Yamamoto, Haruo, 4,654,874, Cl. 382-13.000.
  - Yamamoto, Haruo, 4,695,828, Cl. 340-365.00S.
- Casio Electronics Manufacturing Co., Ltd.: *See*—
  - Maekawa, Nobuaki; Shimizu, Shigeru; Dohi, Masaaki; an Kuriyama, Yoji, 4,660,962, Cl. 355-15.000.
  - Ohta, Morio; Tsuchiya, Shizuo; Nakano, Yoshito; Aikawa, Masar and Asaumi, Seiji, 4,641,156, Cl. 346-160.000
  - Ohta, Morio; and Tsuchiya, Shizuo, 4,649,404, Cl. 346-160.00
  - Oishi, Mitsugu; and Kanai, Hidefumi, 4,634,259, Cl. 355-4.000.
  - Shibasaki, Sohei; Iwasaki, Yasumasa; Ono, Noriki; Arai, Koic Maruyama, Koji; and Shimanari, Tatsumi, 4,648,706, C 355-43.000.
  - Shibasaki, Sohei; Iwasaki, Yasumasa; and Ono, Noriki, 4,687,3 Cl. 355-5.000.
- Casket Shells Inc.: *See*—
  - MacKirdy, William T., 4,688,305, Cl. 27-16.000.
  - Semon, Joseph R., 4,697,316, Cl. 27-1.000.
- Caskey, Douglas C.: *See*—
  - Inskip, Ervin B.; Caskey, Douglas C.; and Dummitt, William E 4,663,480, Cl. 562-598.000.
- Caskey, Kenneth D., to Halliburton Company. Retrieving mechanis 4,648,445, 3-10-87, Cl. 166-98.000.
- Caskey, Kenneth D., to Halliburton Company. Wireline set/tubin retrievable bridge plug. 4,693,309, 9-15-87, Cl. 166-123.000.
- Caskey, Kenneth D.: *See*—
  - Fore, William M.; and Caskey, Kenneth D., 4,648,446, C 166-123.000.
  - Hushbeck, Donald F.; and Caskey, Kenneth D., 4,651,829, C 166-332.000.
- Caskey, Patrick E.: *See*—
  - Thistle, Johnson L.; and Caskey, Patrick E., 4,655,744, C 604-28.000.
- Casler, William A.; and Saurenman, Phillip E., to Plus Manufacturin Co., Inc. Reformed in place resilient retention springs. 4,636,10 1-13-87, Cl. 403-405.100.
- Casma di V. Marinoni & Figli: *See*—
  - Marinoni, Mario, 4,655,025, Cl. 52-771.000.
  - Marinoni, Mario, 4,689,853, Cl. 16-382.000.

Casnovsky, William M.: *See—*
Ng, Edward C.; and Casnovsky, William M., 4,698,782, Cl. 364-708.000.

Caspar, Hans-Peter; and Schutz, Gunter, to Leybold-Heraeus GmbH. Turbomolecular vacuum pump with a rotor and at least one antifriction bearing. 4,695,223, 9-22-87, Cl. 415-90.000.

Caspar, Manfred; Hartig, Franz; and Tomm, Dagwin, to Fichtel & Sachs AG. Clutch disc. 4,655,336, 4-7-87, Cl. 192-106.200.

Caspar, Wolfhard; Lutze, Theodor; and Kienzle, Karl-Ernst, to Aesculap-Werke AG. Applicator for C-shaped scalp clips. 4,637,395, 1-20-87, Cl. 128-334.00R.

Caspari, Gunter; and Valcho, Joseph J., to Standard Oil Company, The. Color stabilizers for zinc dithiophosphates. 4,634,541, 1-6-87, Cl. 252-32.70E.

Caspari, Richard B., to Chattanooga Corporation. Drape for arthroscopic surgery. 4,679,552, 7-14-87, Cl. 128-132.00D.

Caspari, Richard B.: *See—*
Thimsen, James A.; Whipple, Terry L.; and Caspari, Richard B., 4,649,919, Cl. 128-305.000.

Caspary, Charles P.: *See—*
Passarelli, Frank J.; Matsukas, George A.; and Caspary, Charles P., 4,710,272, Cl. 202-205.000.

Caspell, George J., to Tektronix, Inc. Triggered voltage controlled oscillator using fast recovery gate. 4,686,489, 8-11-87, Cl. 331-57.000.

Casper, Clemens: *See—*
Brockmann, Rolf; Casper, Clemens; Damsky, Walter; Lippert, Axel; and Sajben, Johannes O., 4,637,857, Cl. 159-47.100.

Casper, Daniel F., to International Business Machines Corp. Buffer system using parity checking of address counter bit for detection of read/write failures. 4,692,893, 9-8-87, Cl. 364-900.000.

Casper, Karl-Josef: *See—*
Wahnschaffe, Jurgen; Hartmann, Ernst-Siegfried; Casper, Karl-Josef; zur Nieden, Achim; and Schleiermacher, Herbert, 4,672,923, Cl. 123-41.740.

Casper, Lawrence A., to Honeywell Inc. Fiber optic inspection system. 4,672,437, 6-9-87, Cl. 358-101.000.

Casper, Robert A.: *See—*
Daan, Richard L.; and Casper, Robert A., 4,655,777, Cl. 623-16.000.

Caspers, Barbara E.: *See—*
Atal, Bishnu S.; and Caspers, Barbara E., 4,709,390, Cl. 381-51.000.

Caspers, John: *See—*
Baldasarri, Mario; Adams, William R.; and Caspers, John, 4,707,245, Cl. 208-57.000.
Van Driesen, Roger P.; Adams, William R.; Caspers, John; Baldasarri, Mario; and Trimble, Harold, 4,684,456, Cl. 208-143.000.

Cass, David T.: *See—*
Sugden, David B.; Cass, David T.; Dowden, Peter B.; and Hynd, Nicholas A., 4,646,853, Cl. 175-94.000.

Cassaday, Michael M.; Castellani, Leon; and Saros, Stephen, to Technicon Instruments Corporation. Zero dead volume connector. 4,669,756, 6-2-87, Cl. 285-24.000.

Cassaday, Michael M., to Technicon Instruments Corporation. Isolation liquid layer retention device. 4,678,641, 7-7-87, Cl. 422-101.000.

Cassagne, Philippe: *See—*
Casier, Yves; Cassagne, Philippe; Dore, Bernard; and Gicquel, Sylvain, 4,638,943, Cl. 237-7.000.
Casier, Yves; Cassagne, Philippe; Gicquel, Sylvain; and Junet, Roland, 4,640,458, Cl. 237-17.000.

Cassal, Jean-Marie; Edenhofer, Albrecht; and Ramuz, Henri, to Hoffmann-La Roche Inc. Phenyl-pyridinium salts and use thereof in inhibiting intestinal resorption. 4,675,328, 6-23-87, Cl. 514-345.000.

Cassal, Jean-Marie, to Hoffmann-La Roche Inc. Steroids for the treatment of hypercholesterolemia. 4,680,290, 7-14-87, Cl. 514-182.000.

Cassal, Jean-Marie; Edenhofer, Albrecht; and Ramuz, Henri, to Hoffmann-La Roche Inc. Phenyl-pyrimidinium, thiazolium or imidazolium salts and use in inhibiting intestinal resorption of cholesterol and bile salts. 4,692,450, 9-8-87, Cl. 514-256.000.

Cassani, Alexandre: *See—*
Muller, Jacques; and Cassani, Alexandre, 4,687,341, Cl. 368-109.000.

Cassani, Giorgio: *See—*
Arsura, Emilio; Capizzi, Amedeo; Cassani, Giorgio; Spinelli, Pia; and Tonini, Cristina, 4,656,032, Cl. 424-84.000.

Cassani, Giovanni: *See—*
Pirali, Giorgio; Grandi, Maria; Pagani, Hermes; Paternoster, Manuela; Tamoni, Giorgio; and Cassani, Giovanni, 4,692,333, Cl. 424-122.000.

Cassar, Luigi: *See—*
Greco, Alberto; Busetto, Carlo; Cassar, Luigi; and Neri, Carlo, 4,684,726, Cl. 544-69.000.

Cassat, Robert, to Rhone-Poulenc Recherches. Metallizable substrate composites and printed circuits produced therefrom. 4,714,653, 12-22-87, Cl. 428-328.000.

Casseau, Daniel: *See—*
Drabowitch, Serge; Aubry, Claude; Casseau, Daniel; and Bouko, Jean, 4,665,405, Cl. 343-756.000.
Drabowitch, Serge; Aubry, Claude; and Casseau, Daniel, 4,672,378, Cl. 342-17.000.

Casseday, Michael W.: *See—*
Abramovitz, Irwin J.; Berg, Norman J.; and Casseday, Michael W., 4,637,688, Cl. 350-358.000.

Cassedy, Linn W.: *See—*
Goudy, Paul R., Jr.; Cassedy, Linn W.; and Whitaker, Thomas S., 4,673,527, Cl. 252-181.000.

Cassel, Scott T.: *See—*
Cassel, Thomas R.; and Cassel, Scott T., 4,660,862, Cl. 285-114.000.

Cassel, Thomas R.; and Cassel, Scott T., to BKS Company. Pipe lap joint with improved pull-apart strength. 4,660,862, 4-28-87, Cl. 285-114.000.

Casselberry, Robert F.; and Kania, Robert C., to Umec Corporation. High temperature particulate filter media test unit. 4,686,848, 8-18-87, Cl. 73-38.000.

Cassella Aktiengesellschaft: *See—*
Bauer, Wolfgang; Langer, Manfred; and Sperling, Winfried, 4,686,303, Cl. 560-18.000.
Becherer, Johannes; Handte, Reinhardt; Nestler, Hans J.; and Kussmaul, Ulrich, 4,714,766, Cl. 548-217.000.
Kussmaul, Ulrich; Langer, Manfred; Reh, Kuno; Becherer, Johannes; Wille, Herbert; and Muller, Rolf, 4,677,209, Cl. 548-221.000.
Reh, Kuno; and Schophoff, Friedrich, 4,695,656, Cl. 568-587.000.
Schonafinger, Karl; Bohn, Helmut; Martorana, Piero; and Nitz, Rolf-Eberhard, 4,681,891, Cl. 514-340.000.
Tappe, Horst; Kruse, Hubert; Kuhn, Reinhard; Bode, Albert; and Boos, Margareta, 4,678,476, Cl. 8-639.000.
Zoller, Gerhard; Beyerle, Rudi; Just, Melitta; Martorana, Piero; Bohn, Helmut; and Nitz, Rolf-Eberhard, 4,666,902, Cl. 514-212.000.

Cassels, Mark A. Sheet carrier. 4,695,085, 9-22-87, Cl. 294-15.000.

Cassette, Angelo J.: *See—*
Gallo, Frank G.; Swenson, Clark E.; Bencloski, William A.; Cassette, Angelo J.; Manno, John L.; and Parlak, Edward A., 4,716,010, Cl. 376-260.000.

Cassey, Russell A., to Trigon Packaging Systems (NZ) Limited. Envelope with pouch and method of manufacture thereof. 4,648,860, 3-10-87, Cl. 493-195.000.

Cassia, Antonio M., to Steiner Company, Inc. Liquid soap dispensing system. 4,673,109, 6-16-87, Cl. 222-153.000.

Cassia, Antonio M., to Steiner Company, Inc. Electric paper cabinet. 4,676,131, 6-30-87, Cl. 83-208.000.

Cassiano, Cosimo; and Pessina, Fabio, to Honeywell Information Systems Italia. Multicolor inked ribbon cartridge and related positioning mechanism for an impact serial printer. 4,650,355, 3-17-87, Cl. 400-196.100.

Cassiday, Daniel: *See—*
Swinger, Casimir; and Cassiday, Daniel, 4,660,556, Cl. 128-305.000.

Cassidy, Benjamin J., to International Paper Company. Tamper-proof sleeve. 4,671,453, 6-9-87, Cl. 229-40.000.

Cassidy, Calvin A.: *See—*
Phillips, Robert A.; and Cassidy, Calvin A., 4,673,938, Cl. 342-95.000.

Cassidy, Dale A.: *See—*
Lewandowski, Edward F.; Cassidy, Dale A.; and Sommer, Robert G., 4,639,571, Cl. 219-121.0EC.

Cassidy, Edward F.; Goldwasser, David J.; and Onder, Kemal, to Dow Chemical Company, The. Azetidinedione-monocarbonamide capped prepolymer. 4,668,756, 5-26-87, Cl. 528-69.000.

Cassidy, John E., to Electro Nite Co. High temperature protection sleeve. 4,645,865, 2-24-87, Cl. 136-234.000.

Cassidy, John E.: *See—*
Bollen, Theo P. C.; and Cassidy, John E., 4,692,556, Cl. 136-234.000.

Cassidy, Robert T.: *See—*
Hiscock, Willis E.; Cassidy, Robert T.; and Werner, Robert G., 4,650,501, Cl. 55-26.000.

Cassidy, Stephen A.: *See—*
Reeve, Michael H.; and Cassidy, Stephen A., 4,691,896, Cl. 254-134.400.

Cassier, Pierre: *See—*
Clement, Jean-Luc; Lemaire, Michele; Lange, Catherine; Lhommet, Gerard; Celerier, Jean-Pierre; Basselier, Jean-Jacques; and Cassier, Pierre, 4,707,489, Cl. 514-408.000.

Cassin, Thomas R.; Jex, Victor B.; Matulewicz, William N.; McKenzie, Dale A.; and Mohr, Paul H., to Union Carbide Corporation. Organosiloxane-silicate copolymer antifreeze composition with nitrate corrosion inhibitor. 4,664,833, 5-12-87, Cl. 252-75.000.

Cassinelli, Edgar R., to Prime Computer, Inc. Method and apparatus for providing a carrier termination for a semiconductor package. 4,652,065, 3-24-87, Cl. 339-17.0CF.

Cassoli, Paolo, to Cassoli s.r.l. Macchine Automatiche Confezionatrici. Automatic bundling machine. 4,679,379, 7-14-87, Cl. 53-438.000.

Cassoli s.r.l. Macchine Automatiche Confezionatrici: *See—*
Cassoli, Paolo, 4,679,379, Cl. 53-438.000.

Cassoni, John P.: *See—*
Kamens, Ernest R.; and Cassoni, John P., 4,636,528, Cl. 521-95.000.

Cassou, Bertrand: *See—*
Cassou, Robert; Cassou, Maurice; and Cassou, Bertrand, 4,654,025, Cl. 604-55.000.
Cassou, Robert; Cassou, Maurice; and Cassou, Bertrand, 4,701,164, Cl. 604-218.000.

Cassou, Jean-Pierre, to Institut Francais du Petrole. Device for processing modulated signals received by a lateral sonar system. 4,712,200, 12-8-87, Cl. 367-88.000.

Cassou, Maurice: *See—*
Cassou, Robert; Cassou, Maurice; and Cassou, Bertrand, 4,654,025, Cl. 604-55.000.
Cassou, Robert; Cassou, Maurice; and Cassou, Bertrand, 4,701,164, Cl. 604-218.000.

Cassou, Robert; Cassou, Maurice; and Cassou, Bertrand. Artificial insemination apparatus. 4,654,025, 3-31-87, Cl. 604-55.000.

Cassou, Robert; Cassou, Maurice; and Cassou, Bertrand. Gynecological instruments, especially for transferring embryos. 4,701,164, 10-20-87, Cl. 604-218.000.

Castagna, John F., to Sparkomatic Corporation. Cassette adaptor for 8-track cartridge tape player. 4,688,121, 8-18-87, Cl. 360-94.000.

Castagna, John P.; and Siegfried, Robert W., II, to Atlantic Richfield Company. Method and apparatus for measuring formation compression and shear wave velocity. 4,701,891, 10-20-87, Cl. 367-31.000.

Castagna, Joseph T.; and McEligot, Sean, to Priam (Delaware) Corporation. Dynamic absorber device for use with disk drives. 4,703,470, 10-27-87, Cl. 369-215.000.

Castagna, Wolfgang; Krankenhagen, Jochen; Ortwein, Heinz; and Weertz, Klaus, to AWFI Arbeitswissenschaffliches Forschungsinstitut GmbH. Sewing machine. 4,690,081, 9-1-87, Cl. 112-276.000.

Castagno, Aldo, to Fiat Auto S.p.A. Weather strip for a motor-vehicle. 4,678,227, 7-7-87, Cl. 296-213.000.

Castagnos, Leonce F., Jr., to Texaco Inc. Fluid catalytic cracking catalyst-vapor separator. 4,664,888, 5-12-87, Cl. 422-147.000.

Castaigne, Jean-Paul: *See—*
  Rosa, Jean; Castaigne, Jean-Paul; Demarne, Henri; and Tozzolino, Pierre, 4,642,306, Cl. 514-222.000.

Castaing, Francois J., to American Motors Corporation. Tapered leaf spring. 4,676,488, 6-30-87, Cl. 267-47.000.

Castaldi, Graziano: *See—*
  Giordano, Claudio; Villa, Giovanni; Uggeri, Fulvio; and Castaldi, Graziano, 4,675,418, Cl. 549-79.000.
  Giordano, Claudio; Castaldi, Graziano; Uggeri, Fulvio; and Cavicchioli, Silvia, 4,697,036, Cl. 562-418.000.

Castaldi, John; and Greenzang, Fred, to Applied Retrieval Technology, Inc. Automatic storage and retrieval system. 4,690,602, 9-1-87, Cl. 414-282.000.

Castaldo, Antonio. Cleaning composition for cymbals. 4,687,591, 8-18-87, Cl. 252-90.000.

Castaneda, Albert A. Auxiliary rear view mirror assembly and outboard mirror. 4,637,694, 1-20-87, Cl. 350-626.000.

Castaneda, Miguel P.: *See—*
  Tamez, Carlos; and Castaneda, Miguel P., 4,662,805, Cl. 410-33.000.

Castarede, Armand, to Regie Nationale des Usines Renault. Piston of refractory materials, particularly for compression-ignition engines. 4,651,629, 3-24-87, Cl. 92-176.000.

Castcraft Industries, Inc.: *See—*
  Kreiter, Manny, 4,710,447, Cl. 430-293.000.

Castech Enterprises, Inc.: *See—*
  Hardey, Donald H.; and Austin, Franklin D., 4,690,198, Cl. 164-316.000.

Casteel, Jordan B.; Lippitt, David L.; and Ritter, Allen M., to General Electric Company. Programmable deadband current regulator. 4,658,192, 4-14-87, Cl. 318-317.000.

Casteel, Joseph M. Apparatus for pre-assembling and lifting a structure. 4,650,392, 3-17-87, Cl. 414-680.000.

Casteen, Lynn A.; Gilbert, Kim T.; Patel, Raj L.; and Snoke, Steven R., to Babcock & Wilcox Company, The. Pressurizer loop seal insulation assembly. 4,673,546, 6-16-87, Cl. 376-289.000.

Castegnier, Adrien, to Elcorsy Inc. Monochromic and polychromic printing of an image reproduced by electro-coagulation of a colloid. 4,661,222, 4-28-87, Cl. 204-180.900.

Castegnier, Adrien, to Elcorsy Inc. Method of preventing undesirable gas generation between electrodes of an electrocoagulation printing system. 4,680,097, 7-14-87, Cl. 204-180.100.

Castel, Joelle: *See—*
  Paradowski, Henri; Parfait, Herve; Castel, Joelle; and Vasseur, Alain, 4,689,063, Cl. 62-28.000.

Castel, Joelle H.: *See—*
  Paradowski, Henri; Castel, Joelle H.; and Parfait, Herve B., 4,690,702, Cl. 62-23.000.

Castel, John C.; and Kerwin, Richard G. Fresnel lens light applicator. 4,690,141, 9-1-87, Cl. 128-396.000.

Castel, Lawrence, to Coats & Clark, Inc. Apparatus for providing two indicators in association with goods in a store display. 4,688,341, 8-25-87, Cl. 40-5.000.

Castel, Yvon; and Iato, Michel, to Societe Nationale Elf Aquitaine (Production). Device for positioning, activating and connecting modules of a sub-sea oil production station. 4,643,616, 2-17-87, Cl. 405-191.000.

Casteleiro, Carlos: *See—*
  Acharekar, Madhu; and Casteleiro, Carlos, 4,653,063, Cl. 372-107.000.

Castelhano, Arlindo L.: *See—*
  Krantz, Alexander; and Castelhano, Arlindo L., 4,661,510, Cl. 514-400.000.
  Krantz, Alexander; Castelhano, Arlindo L.; and Pliura, Diana H., 4,668,703, Cl. 514-549.000.

Castelijns, Anna M. C. F.; and Aarts, Thomas M. G., to Stamicarbon B.V. Process for the preparation of 2-cyanomethylcyclohexanone. 4,649,211, 3-10-87, Cl. 558-430.000.

Castellani, Antonio: *See—*
  Arduini, Carlo; Barboni, Renato; Castellani, Antonio; Ponzi, Ugo; Bielli, Paolo; and Contu, Salvatore, 4,701,765, Cl. 343-897.000.

Castellani, Giovanni. Shaft-mounted planetary speed-reducing gear unit featuring a balanced, self-aligning and self-distancing ring gear. 4,679,464, 7-14-87, Cl. 74-788.000.

Castellani, Leon: *See—*
  Cassaday, Michael M.; Castellani, Leon; and Saros, Stephen, 4,669,756, Cl. 285-24.000.

Castellano, Pietro, to Ing. C. Olivetti & C., S.p.A. Serial ink jet printing arrangement providing a removably mounting of the printing head on a carriage. 4,682,188, 7-21-87, Cl. 346-140.00R.

Castelli, Joseph Q.; and Johnson, Don L. Storage box for personal computer interior. 4,712,843, 12-15-87, Cl. 312-242.000.

Castelli, Pierluigi; and Caramaschi, Vittorio, to Costruzioni Aeronautiche Giovanni Agusta S.p.A. Helicopter rotor. 4,652,211, 3-24-87, Cl. 416-140.000.

Castenson, Richard, to American Hoechst Corporation. Azoacylacetamide dispersing agents and azo-pigment compositions. 4,664,709, 5-12-87, Cl. 106-23.000.

Caster, Wayne L., to Caster, Wayne L. Art production method utilizing cast coated paper for preparation of camera-ready art. 4,693,768, 9-15-87, Cl. 156-62.000.

Castetter, Thomas L.: *See—*
  Chesnut, M. Gaines; and Castetter, Thomas L., 4,672,760, Cl. 42-50.000.

Castex Products Limited: *See—*
  Whitehead, Derek J.; and Shepherd, Michael T., 4,642,230, Cl. 424-15.000.

Castiglione, Ralph M.; and Hurst, Ralph, to Mechanical Technology Incorporated. Method of making a laminated stator. 4,642,882, 2-17-87, Cl. 29-596.000.

Castiglioni, Giovanni P., to F.I.C.I. Finanziaria Industriale Commerciale Immobiliare S.p.A. Equipment for slitting continuous tapes into strips with shaped side profile, in particular for metal sheet. 4,641,559, 2-10-87, Cl. 83-333.000.

Castille, Leopold A. Holder for small parts. 4,691,903, 9-8-87, Cl. 269-6.000.

Castillo, Adolfo, to Gang-Nail Systems Inc. Building truss fabrication apparatus. 4,669,184, 6-2-87, Cl. 29-798.000.

Castillo, Jean-Michel; Jankowski, Christian; and Ferlay, Serge, to Societe de Promotion des Procedes Hydro-Metallurgiques. Process for production of fine and ultrafine zinc powders by electrolysis in a basic medium. 4,676,877, 6-30-87, Cl. 204-10.000.

Castle Company: *See—*
  Ensslin, Frieder H., 4,662,369, Cl. 128-303.130.
  Ensslin, Frieder H., 4,712,544, Cl. 128-303.140.

Castle, Derek C.: *See—*
  Harrison, Peter J.; and Castle, Derek C., 4,644,139, Cl. 219-522.000.

Castle, George S. P.: *See—*
  Inculet, Ion I.; and Castle, George S. P., 4,673,132, Cl. 239-706.000.

Castle, Thomas M.: *See—*
  Dolak, Lester A.; Laborde, Alice L.; Sebek, Oldrich K.; Castle, Thomas M.; and Brodasky, Thomas F., 4,689,300, Cl. 435-253.000.

Castleberry, Donald E., to General Electric Company. Information conversion device with auxiliary address lines for enhancing manufacturing yield. 4,688,896, 8-25-87, Cl. 350-333.000.

Castleman, Cordell V. Battery charger. 4,647,834, 3-3-87, Cl. 320-43.000.

Castleman, Cordell V. Ripple detecting polarity indicator for battery charger. 4,654,575, 3-31-87, Cl. 320-25.000.

Castner, Bryan G., to Burr-Brown Corporation. Package for an expandable remote interface unit. 4,672,510, 6-9-87, Cl. 361-415.000.

Castner, Raymond P.; Olechovsky, David F.; Brown, Philip S.; Sinha, Susanta; Keller, Harold T.; and Cheng, Wenche W., to Westinghouse Electric Corp. Tube expansion apparatus. 4,649,493, 3-10-87, Cl. 364-472.000.

Castolin S.A.: *See—*
  Oeschsle, Manfred; Szieslo, Uwe; Streb, Karl-Peter; and Simm, Wolfgang, 4,711,627, Cl. 431-30.000.
  Simm, Wolfgang; and Steine, Hans-Theo, 4,681,734, Cl. 419-9.000.

Castonguay, Roger N.: *See—*
  Todaro, Frank A.; Castonguay, Roger N.; Krajewski, Alexander A.; and Morris, Robert A., 4,679,019, Cl. 335-172.000.
  Todaro, Frank A.; Dziura, Richard A.; and Castonguay, Roger N., 4,700,161, Cl. 335-172.000.

Castor, Raymond A.: *See—*
  Atherton, Jay W.; Castor, Raymond A.; Christie, Leonard F.; and Engerman, Robert C., 4,683,439, Cl. 330-10.000.

Castrejon, Diane A. Eye protector. 4,656,668, 4-14-87, Cl. 2-15.000.

Castricum, Wilhelmus P. H., to Spiro America Inc. Apparatus for cutting hollow pipe. 4,706,481, 11-17-87, Cl. 72-49.000.

Castricum, Wilhelmus P. H., to Spiro America Inc. Apparatus for crimping pipe. 4,711,110, 12-8-87, Cl. 72-49.000.

Castro, Andres. Bag carrier. 4,666,203, 5-19-87, Cl. 294-170.000.

Castro, Bernard, to Castro Convertible Corporation. Mattress guard. 4,712,261, 12-15-87, Cl. 5-499.000.

Castro, Bertrand: *See—*
  Martinez, Jean; Bali, Jean-Pierre; Castro, Bertrand; Nisato, Dino; and Demarne, Henri, 4,636,490, Cl. 514-15.000.
  Martinez, Jean; Bali, Jean-Pierre; Magous, Richard; Castro, Bertrand; and Demarne, Henri, 4,687,759, Cl. 514-18.000.
  Martinez, Jean; Bali, Jean-Pierre; Magous, Richard; Castro, Bertrand; and Demarne, Henri, 4,687,760, Cl. 514-18.000.

Castro Convertible Corporation: *See—*
  Barabas, John; and Bocella, Ralph, 4,662,286, Cl. 108-17.000.
  Castro, Bernard, 4,712,261, Cl. 5-499.000.

Castrol Limited: *See—*
  Askew, Herbert F.; and Davies, Paul R., 4,708,810, Cl. 252-50.000.

Castronuovo, Lucia: *See—*
  Marotta, Enrico; and Castronuovo, Lucia, 4,684,649, Cl. 514-249.000.

Caswell, Michael L.; Corr, James J.; Dobrovolny, Mark S.; Lander, Lynn H.; Narath, William R.; and Theiler, Richard F., to Lever

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talyst Technology, Inc.: See—
  Sapoff, Paul C., 4,701,101, Cl. 414-786.000.
talysts and Chemical Europe: See—
  Schurmans, Jacques; Neukermans, Herman; Quibel, Jacques; and Dupont, Rene., 4,670,187, Cl. 252-373.000.
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  Nishimura, Yoichi; Ogata, Masamitsu; and Ida, Takanori, 4,636,484, Cl. 502-65.000.
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  Grate, John H., and Hamm, David R., 4,687,872, Cl. 560-25.000.
  Grate, John H.; Hamm, David R.; and Valentine, Donald H., 4,705,883, Cl. 560-25.000.
  Grate, John H., and Hamm, David R., 4,709,073, Cl. 560-24.000.
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atena, Nicola, to Fata European Group S.p.A. Apparatus for the overhead transportation of heavy loads on a monorail. 4,715,288, 12-29-87, Cl. 105-154.000.
aterpillar Inc.: See—
  Ackermann, Stephen J., 4,650,207, Cl. 280-515.000.
  Alexander, Phillip W.; Freberg, Michael S.; Howell, Keith A.; and Johnston, James E., 4,650,259, Cl. 305-10.000.
  Alster, Louis G.; and Gardner, Chester S., 4,650,334, Cl. 356-376.000.
  Ballheimer, Benny, 4,638,769, Cl. 123-41.840.
  Barrett, John R.; Cemenska, Richard A.; Gladden, John R.; Moeckel, Mark D.; and Schneider, Philip H., 4,684,321, Cl. 415-202.000.
  Bernhagen, James R.; Crabb, Elmer R.; Murphy, Marilyn S.; Roley, Daniel G.; St. Germain, Gene R.; and Tunnell, James H., 4,700,794, Cl. 180-6.440.
  Bohl, Phillip B.; Gillette, Rodney J.; and Smith, James C., 4,715,337, Cl. 123-169.0PA.
  Bruning, E. Eugene, 4,640,247, Cl. 123-388.000.
  Budzich, Tadeusz, 4,665,801, Cl. 91-420.000.
  Budzich, Tadeusz, 4,679,492, Cl. 91-420.000.
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  Burdick, Jon S.; and Corcoran, Paul T., 4,637,665, Cl. 305-54.000.
  Cheek, Michael E.; and Morris, William C., 4,662,246, Cl. 74-789.000.
  Cook, James G.; and Knapp, Gary H., 4,636,920, Cl. 361-420.000.
  Coutant, Alan R., 4,676,348, Cl. 192-3.570.
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  Cronin, Michael G., 4,667,784, Cl. 192-4.00A.
  Daniel, Steven A.; and Laylock Rick A., 4,649,772, Cl. 74-785.000.
  Dennison, Thomas M.; and Maust, Blair A., 4,636,014, Cl. 305-54.000.
  Ellegood, Norman W.; Fritsche, Joel L.; Groezinger, John J.; Ikeda, Keichi; and Streitmatter, Ronald W., 4,692,196, Cl. 156-187.000.
  Engel, William K.; and Bogert, Stephen R., 4,640,095, Cl. 60-443.000.
  Foley, Donald E.; Gipp, Gregory H.; Schwader, William G.; Sells, Craig L.; Smittkamp, James A.; Stahl, Alan L.; and Szentes, John F., 4,635,739, Cl. 177-45.000.
  Fuzzell, Joe E., 4,670,715, Cl. 324-208.000.
  Garman, James A.; and Swift, Stephen D., 4,639,995, Cl. 29-402.080.
  Grawey, Charles E., 4,643,249, Cl. 165-159.000.
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  Hadank, John M.; and Creger, Todd D., 4,712,376, Cl. 60-427.000.
  Hafele, Joseph C.; and Crayton, John W., 4,685,066, Cl. 364-509.000.
  Heinrich, Andrew L., 4,665,376, Cl. 338-176.000.
  Hoffman, John P.; and Phelps, Weldon L., 4,661,766, Cl. 323-287.000.
  Hoffman, John P., 4,682,151, Cl. 340-347.0SY.
  Hopkins, Delaney C.; and Thais, James W., 4,658,854, Cl. 137-377.000.
  Jaksa, Tibor S.; Norton, Richard F.; Hall, Kenneth W.; Butler, Stephen J.; Chicoine, Craig C.; and Bienz, Wilford L., 4,715,103, Cl. 29-156.40R.
  Kalman, Peter, 4,683,632, Cl. 29-281.100.
  Latimer, Eugene E.; and McWilliams, Orcenith D., 4,667,930, Cl. 251-324.000.
  Menke, Jeffery W.; and Riediger, Craig W., 4,636,132, Cl. 414-694.000.
  Mueller, James P.; and Phelps, Weldon L., 4,702,358, Cl. 192-13.00R.
  Murphy, Michael J.; and Smith, Kent D., 4,638,869, Cl. 172-821.000.
  Nerstad, Karl A., and Windish, Willis E., 4,658,673, Cl. 74-769.000.
  Nerstad, Karl A.; and Windish, Willis E., 4,660,425, Cl. 74-15.860.
  Nerstad, Karl A.; and Windish, Willis E., 4,676,116, Cl. 74-360.000.
  Palmer, Marvin K., 4,715,641, Cl. 294-119.400.
  Roussin, Michael A.; Fidler, Jerry D.; and Jensen, Brian D., 4,679,857, Cl. 299-37.000.
  Rowen, Harold E., 4,688,665, Cl. 192-0.076.
  Satzler, Ronald L., 4,650,260, Cl. 305-31.000.
  Schaefer, Maurice E., 4,635,057, Cl. 340-870.390.
  Tonsor, Andrew J., 4,636,013, Cl. 305-48.000.
  Vize, Robert M., 4,694,870, Cl. 141-326.000.
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  Whalen, Charles E., and Hoover, Wilbur G., 4,640,771, Cl. 210-167.000.
  Zborowski, David G., 4,681,177, Cl. 180-9.560.
Caterpillar Industrial Inc.: See—
  Barton, James C.; Hefner, Robert F.; Reid, Paul A.; and Sable, Frank R., 4,694,928, Cl. 180-268.000.
  Baumgartner, Kenneth A.; and Pickering, William, 4,691,149, Cl. 318-331.000.
  Dawson, Ian J.; and McNutt, Robert L., 4,706,772, Cl. 180-167.000.
  Erker, James W.; Scotese, Michael J., and Stotts, Jay B., 4,711,614, Cl. 414-641.000.
  Fotheringham, James R., 4,633,966, Cl. 180-253.000.
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  Fotheringham, James R., 4,690,610, Cl. 414-631.000.
  Melocik, Grant C., 4,659,970, Cl. 318-269.000.
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  Tupman, David J., 4,683,373, Cl. 250-221.000.
  Tupman, David J., 4,691,385, Cl. 455-607.000.
  Wible, John E., 4,635,439, Cl. 60-420.000.
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  Goloff, Alexander, 4,661,042, Cl. 415-64.000.
  Roussin, Michael A.; and Cobb, Delwin E., 4,703,838, Cl. 188-316.000.
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Cates, Marion H.; and Szonntagh, Eugene L., to Honeywell Inc. Sorption/desorption gas analysis apparatus. 4,711,765, 12-8-87, Cl. 422-89.000.
Cates, Robert E., to Baltimore Aircoil Company, Inc. Cross flow evaporative coil fluid cooling apparatus and method of cooling. 4,683,101, 7-28-87, Cl. 261-146.000.
Cates, Thomas D. Mud degasser. 4,666,471, 5-19-87, Cl. 55-52.000.
Catheter Technology Corp.: See—
  Groshong, LeRoy E.; and Brawn, Ronald J., 4,671,796, Cl. 604-247.000.
  Groshong, LeRoy E.; and Brawn, Ronald J., 4,701,166, Cl. 604-247.000.
Cathignol, Dominique: See—
  Mestas, Jean-Louis; and Cathignol, Dominique, 4,702,248, Cl. 128-328.000.
Cat'hild: See—
  More-Chevalier, Francois, 4,653,202, Cl. 34-201.000.
Cathodochromic Partners, Ltd.: See—
  Todd, Lee T., Jr.; and Kloss, Henry E., 4,669,069, Cl. 367-96.000.

Cathriner, Richard L.; and Roose, Thomas R., to Atlantic Richfield Company. System for separating gas-liquid flowstreams. 4,708,793, 11-24-87, Cl. 210-188.000.
Catier, Gerard: *See—*
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Lombard, Claude; Brisset, Jean-Paul; Catier, Gerard; Marais, Jean-Luc; and Zammarchi, Gino, 4,682,104, Cl. 324-208.000.
Lombard, Claude; Brisset, Jean-Paul; Marais, Jean-Luc; and Catier, Gerard, 4,702,208, Cl. 123-339.000.
Catiller, Robert D.; Faivre, John D.; and Rakpongs, Fah, to Computer Power Systems Corporation. Apparatus for providing cost efficient power measurement. 4,713,608, 12-15-87, Cl. 324-142.000.
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Vishnitsky, Alexander, 4,690,737, Cl. 204-129.700.
Catlin, Gary M.; and Klovstad, Jim, to Daisy Systems Corporation. Two-speed clock scheme for co-processors. 4,677,433, 6-30-87, Cl. 340-825.200.
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Aboukrat, Simon; Catoir, Lucien; Guatelli, Jean-Luc; and Sobiepanek, Janusz, 4,703,212, Cl. 310-218.000.
Catonne, Jean-Claude: *See—*
Rignon, Maurice; Catonne, Jean-Claude; Denisard, Francoise; and Malafosse, Jean, 4,678,549, Cl. 204-74.000.
Catotti, Arthur J.: *See—*
Pensabene, Saverio F.; West, Jon K.; Leclair, Robert A.; Van Conant, Carl F.; Catotti, Arthur J.; and Fralick, William L., 4,686,013, Cl. 204-2.100.
Catros, Jean-Yves, to Thomson-CSF. Method and apparatus for bridging closely spaced moving zones in a television image and for differentially coding the bridging zones and the moving zones. 4,651,193, 3-17-87, Cl. 358-13.000.
Catros, Jean-Yves; and Michler, Denis, to Thomson Video Equipment. Method and system for bit-rate compression of digital data transmitted between a television transmitter and a television receiver. 4,679,079, 7-7-87, Cl. 358-135.000.
Cats, Pier C. M., to Idetra B.V. Desk clamping device or decollator for tearing off strip side edges. 4,657,163, 4-14-87, Cl. 225-106.000.
Catsimpoolas, Nicholas, to Boston University, Trustees of. Lipids with plasmin inhibitory properties. 4,673,667, 6-16-87, Cl. 514-25.000.
Catsimpoolas, Nicholas; and Goldsmith, Harry S., to Boston University, Trustees of. Angiogenic factor methods of extraction and method for producing angiogenesis. 4,699,788, 10-13-87, Cl. 424-104.000.
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Catsouras, George: *See—*
Grech, Leonard, 4,681,084, Cl. 126-52.000.
Cattanach, James B.; and Barnes, Anthony J., to Alcan International Limited. Forming fibre-plastics composites. 4,657,717, 4-14-87, Cl. 264-10.200.
Cattaneo, Carlo, to Camar S.p.A. Table leg with sheating. 4,685,645, 8-11-87, Cl. 248-188.800.
Cattaneo, Pierre, to Lem S.A. Current transformer for direct and alternating current. 4,682,101, 7-21-87, Cl. 324-117.00H.
Cattaneo, Sergio, to Honeywell Information Systems Italia. Armature group for mosaic printing head and related manufacturing method. 4,648,730, 3-10-87, Cl. 400-124.000.
Cattani, Augusto, to Officine Augusto Cattani & C.S.p.A. Spittle separation and disposal device incorporating a drainage pump, in particular for suction equipment used in dentistry. 4,684,345, 8-4-87, Cl. 433-92.000.
Cattani, Augusto, to Officine Augusto Cattani & C. S.p.A. Moisture trap for fluid suction equipment, in particular as employed in dentistry. 4,710,209, 12-1-87, Cl. 55-418.000.
Cattani, Luciano, to Sauer S.p.A. Device for shaping ice creams and food articles of creamy consistency. 4,648,829, 3-10-87, Cl. 425-326.100.
Cattani, Luciano, to Sauer S.p.A. Method for shaping ice creams and food articles of creamy consistency. 4,670,283, 6-2-87, Cl. 426-512.000.
Cattano, John D.: *See—*
Simonton, R. D.; Cattano, John D.; and Mason, Robert K., 4,678,729, Cl. 429-129.000.
Simonton, Robert D.; Cattano, John D.; and Mason, Robert K., 4,679,316, Cl. 29-731.000.
Catterfeld, Fritz C.; and Kroy, Ralph E., to Rockwell International Corporation. Integrated dual pump system. 4,644,207, 2-17-87, Cl. 310-126.000.
Catterfeld, Fritz C.: *See—*
Kroy, Ralph E.; and Catterfeld, Fritz C., 4,644,202, Cl. 310-58.000.
Cattin, Bernard W.; and Grabbe, Dimitry, to AMP Incorporated. Optical fiber connector apparatus and method of manufacture. 4,645,296, 2-24-87, Cl. 350-96.210.
Cauchetier, Philippe: *See—*
Mauchien, Patrick; and Cauchetier, Philippe, 4,641,032, Cl. 250-459.100.
Caudel, Edward R.: *See—*
Magar, Surendar S.; Essig, Daniel L.; Simpson, Richard D.; and Caudel, Edward R., 4,713,748, Cl. 364-200.000.
Caudill, William; and Klimezky, Frank, to Gulfstream Goodwill Industries, Inc. Furniture construction. 4,643,607, 2-17-87, Cl. 403-194.000.
Caudle, Graham, to Amalgamated Mining & Trading Limited. Method and apparatus for forming containers. 4,671,785, 6-9-87, Cl. 493-160.000.
Caudron, Lionel: *See—*
Travade, Francois; and Caudron, Lionel, 4,676,893, Cl. 210-157.000.
Caudron, Robert: *See—*
Belbel, Elie; Caudron, Robert; Fechant, Louis; Haury, Andre; Lauraire, Michel; Muniesa, Jacques; and Siffroi, Lucien, 4,638,275, Cl. 335-151.000.
Caughman, Donald O.; and Plumley, Wallace J., to Lockheed Corporation. Ultrasonic ranging control system for industrial robots. 4,674,057, 6-16-87, Cl. 364-513.000.
Caughran, David. Piston with turbine fan for use in internal combustion engines. 4,712,526, 12-15-87, Cl. 123-307.000.
Caulfield, H. John; and Camac, Morton, to Aerodyne Products Corporation. Hologram writing apparatus and method. 4,655,539, 4-7-87, Cl. 350-3.600.
Caulfield, Leonard, to Teleflex Incorporated. Linear measuring device. 4,700,485, 10-20-87, Cl. 33-143.00L.
Caumont, Jean-Francois, to Tempo Sanys. Method of making a hydrophilic cotton "fleece", and a fleece obtained in accordance with the employment of this method, and pieces of cotton of any form which are obtained by cutting this fleece up. 4,658,477, 4-21-87, Cl. 19-66.0CC.
Caumont, Jean-Francois, to Tempo Sanys. Method of making a hydrophilic cotton fleece. 4,679,278, 7-14-87, Cl. 19-66.0CC.
Caumont, Jean P.: *See—*
Schawann, Jean C.; Caumont, Jean P.; and Falcimaigne, Jean, 4,646,841, Cl. 166-355.000.
Caunce, Benjamin R. J., to General Electric Company, p.l.c., The. Protection apparatus. 4,706,156, 11-10-87, Cl. 361-80.000.
Cause Consequence Analysis, Inc.: *See—*
Williams, Leslie P., 4,640,461, Cl. 239-317.000.
Causse, Bernard: *See—*
Burriat, Jean; Causse, Bernard; and Rovel, Jean-Marie, 4,659,476, Cl. 210-675.000.
Causse D'Agraives, Bertrand; Mathieu, Janny; and Jamar, Patrick, to Communaute Europeenne de l'Energie Atomique (Euratom); and Association pour la Promotion de la Technologie (Promotech). Surface texture reading access checking system. 4,677,435, 6-30-87, Cl. 340-825.310.
Causton, Brian E., to National Research Development Corporation. Prevention of undesired adsorption on surfaces. 4,663,202, 5-5-87, Cl. 427-388.400.
Cauwet, Daniele: *See—*
Grollier, Jean F.; Dubief, Claude; and Cauwet, Daniele, 4,673,568, Cl. 424-47.000.
Grollier, Jean-Francois; Fiquet, Claire; Fourcadier, Chantal; Dubief, Claude; and Cauwet, Daniele, 4,638,822, Cl. 132-7.000.
Cauzin Systems, Incorporated: *See—*
Brass, Robert L.; Glaberson, John; Mason, Richard W.; L'Heureux, Arthur J., III; Santulli, Scott; Roth, G. Thomas; Frega, John; and Imiolek, Henry S., 4,692,603, Cl. 235-454.000.
Cavagna, Elio, to Elio Cavagna S.r.l. Device for embossing and/or creasing sheet, or roll material. 4,641,575, 2-10-87, Cl. 101-23.000.
Cavagna, Elio. Cutting units for cutting material in bands into strips. 4,649,782, 3-17-87, Cl. 83-425.400.
Cavagnaro, Joy A.: *See—*
Osband, Michal E.; and Cavagnaro, Joy A., 4,716,111, Cl. 435-68.000.
Cavaliere, Joseph R.; Chang, Albert Y.; and Robortaccio, Rocco J., to International Business Machines Corporation. Bi-directional transceiver circuit. 4,698,800, 10-6-87, Cl. 370-24.000.
Cavaliere, Joseph R.: *See—*
Ainton, Gerard J.; Cavaliere, Joseph R.; and Cheng, Ming T., 4,709,169, Cl. 307-455.000.
Cavalieri, Dominic A. Turbine blade holding device. 4,638,602, 1-27-87, Cl. 51-217.00R.
Cavallari, Piergiuseppe, to Honeywell Information Systems Italia. Ruby and needle guiding group for needle printing head. 4,662,764, 5-5-87, Cl. 400-124.000.
Cavallaro, Anthony, to Eastman Kodak Company. High contrast photographic elements exhibiting stabilized sensitivity. 4,634,661, 1-6-87, Cl. 430-567.000.
Cavallaro, Paul V., to United States of America, Army. Quick-connect/disconnect connector. 4,679,959, 7-14-87, Cl. 403-143.000.
Cavalleri, Bruno: *See—*
Malabarba, Adriano; Strazzolini, Paolo; Borghi, Angelo; Cavalleri, Bruno; and Coronelli, Carolina, 4,645,827, Cl. 530-322.000.
Malabarba, Adriano; Strazzolini, Paolo; Borghi, Angelo; Cavalleri, Bruno; and Coronelli, Carolina, 4,650,855, Cl. 530-322.000.
Malabarba, Adriano; Magni, Ambrogio; Strazzolini, Paolo; Cavalleri, Bruno; and Trani, Aldo, 4,661,470, Cl. 514-9.000.
Malabarba, Adriano; and Cavalleri, Bruno, 4,684,644, Cl. 514-210.000.
Malabarba, Adriano; and Cavalleri, Bruno, 4,698,418, Cl. 530-317.000.
Malabarba, Adriano; Borghi, Angelo; Strazzolini, Paolo; Cavalleri, Bruno; and Coronelli, Carolina, 4,699,977, Cl. 530-322.000.
Cavalli, Alfredo. Icecream-making household appliance incorporating an automatic stirring paddle stopping device. 4,664,529, 5-12-87, Cl. 366-149.000.
Cavalli, Alfredo. Apparatus for preparing ice cream and the like. 4,681,458, 7-21-87, Cl. 366-149.000.

- avalli, Alfredo. Steam generating apparatus for different household application outlets. 4,692,588, 9-8-87, Cl. 219-245.000.
- avalli, Alfredo. Multi-purpose household appliance particularly for cleaning floors, carpets, laid carpetings, and the like. 4,696,074, 9-29-87, Cl. 15-321.000.
- avallo, Robert S. Guitar pick. 4,651,614, 3-24-87, Cl. 84-322.000.
- avan, Daniel L., to Insystems, Inc. Rotatable and translatable mounting mechanism for a specimen pattern in optical processing apparatus. 4,659,172, 4-21-87, Cl. 350-3.830.
- avan, Jean-Claude: *See—*
  - Calvet, Jean; Cavan, Jean-Claude; Thevenin, Jean-Claude; and Fievet, Alain, 4,668,445, Cl. 264-1.500.
  - Calvet, Jean; Cavan, Jean-Claude; and Thevenin, Jean-Claude, 4,675,136, Cl. 264-1.500.
- avanagh, Michael J., to Minnesota Mining and Manufacturing Company. Tape applying device. 4,642,157, 2-10-87, Cl. 156-468.000.
- avanak, Thomas, to Sandoz Ltd. Occular formulation comprising bromocriptine. 4,654,345, 3-31-87, Cl. 514-250.000.
- avanaugh, James E.; Erwin, Larry; and Hetherington, Robert D., to Binks Manufacturing Company. Pail mount pump with integral cover. 4,690,308, 9-1-87, Cl. 222-156.000.
- avanna S.p.A.: *See—*
  - Francioni, Renzo, 4,648,504, Cl. 198-606.000.
- Cavasa, Victor; and Fontaine, Jean-Marc, to Aerospatiale Societe Nationale Industrielle. System for supplying fuel to an aircraft engine. 4,686,825, 8-18-87, Cl. 60-243.000.
- Cave, David L.: *See—*
  - Bynum, Byron G.; and Cave, David L., 4,665,459, Cl. 361-91.000.
- Cavedo, Robert P., to Singer Company, The. Depth of cut adjusting mechanism. 4,693,648, 9-15-87, Cl. 409-178.000.
- Cavender, Ralston R., Jr.; Connolly, Elizabeth S.; Powers, Dale R.; and Ritter, John E., to Corning Glass Works. Methods for reducing the water content of optical waveguide fibers. 4,684,383, 8-4-87, Cl. 65-3.120.
- Caveney, Jack E., and Moody, Roy A., to Panduit Corp. One-piece cable tie. 4,688,302, 8-25-87, Cl. 24-16.0PB.
- Caves, Keith, and Woodman, Douglas E., to STC plc. Intelligence transmission system of the local area network type. 4,713,807, 12-15-87, Cl. 370-94.000.
- Cavestany, Adrian V., to Raypak, Inc. Gas-fired outdoor spa and hot tub heater. 4,679,545, 7-14-87, Cl. 126-350.00R.
- Cavezzan, Jacques; and Soula, Gerard, to Rhone-Poulenc Specialites Chimiques. Organopolysiloxane compositions for antiadhesive/release coatings. 4,640,939, 2-3-87, Cl. 522-99.000.
- Cavezzan, Jacques, to Rhone-Poulenc Specialites Chimiques. Platinum/triene complexes useful for hydrosilylation catalysis. 4,687,870, 8-18-87, Cl. 556-136.000.
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  - Rahbe, Georgette; Marzin, Roger; Cavicchioli, Ivan; and Krasuk, Julio, 4,655,903, Cl. 208-96.000.
  - Rahbe, Georgette; Marzin, Roger; Cavicchioli, Ivan; Krasuk, Julio; and Solari, Rodolfo B., 4,676,886, Cl. 208-50.000.
- Cavicchioli, Silvia: *See—*
  - Giordano, Claudio; Castaldi, Graziano; Uggeri, Fulvio; and Cavicchioli, Silvia, 4,697,036, Cl. 562-418.000.
- Cavigli, Mario; and Ferrari, Lorenzo, to Kinglor-Ltd. Self-baking electrode for electric arc furnaces and the like. 4,692,929, 9-8-87, Cl. 373-89.000.
- Cavitt, Michael B., to Dow Chemical Company, The. Paint formulation comprising a thermally stable capped thermoplastic phenolic resin. 4,713,404, 12-15-87, Cl. 523-172.000.
- Cavlan, Napoleone, to Signetics Corporation. Field-programmable logic device with programmable foldback to control number of logic levels. 4,703,206, 10-27-87, Cl. 307 465.000.
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  - Mason, Bradley R.; Mason, Jeffrey T.; and Cawley, Patrick W., 4,697,583, Cl. 128-80.00C.
- Cawley, Robin A.; and Pratt, Roderick J., to Quantel Limited. Video editing systems with allowable range for key signal set by detecting the range in a selected area. 4,667,221, 5-19-87, Cl. 358-22.000.
- Cawrey, Philip G. Pegboard bracket retainer. 4,714,221, 12-22-87, Cl. 248-221.100.
- Cawse, James N.; Johnson, Norman E.; and Whitaker, Michael T., to General Electric Company. Hydrogenation of lactones to glycols. 4,652,685, 3-24-87, Cl. 568-864.000.
- Cawthorne, Duane C., to United States of America, Energy. Energy-efficient lighting system for television. 4,682,238, 7-21-87, Cl. 358-228.000.
- Cayrol, Jean-Claude, to Institut National de la Recherche Agronomique. Nematophagous agent and a process for controlling the growth of nematoda of the melodogynic species. 4,666,714, 5-19-87, Cl. 424-93.000.
- Cayton, Nancy M., to Educational Experiences, Inc. Column marker. 4,713,891, 12-22-87, Cl. 33-494.000.
- Caywood, Stanley W., Jr., to Du Pont de Nemours, E. I., and Company. Fluoroelastomer composition containing accelerator. 4,663,395, 5-5-87, Cl. 525-340.000.
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- Cayzer, Ian S. Pipe and flange alignment tool. 4,701,989, 10-27-87, Cl. 29-271.000.
- Cazaly, Laurence G.; and Lamon, Douglas. Storage tank construction. 4,660,336, 4-28-87, Cl. 52-192.000.
- Cazaux, Joel, to Fives-Cail Babcock. Apparatus for controlling the oscillations of a continuous pour ingot mold. 4,644,997, 2-24-87, Cl. 164-416.000.
- Cazaux, Joel: *See—*
  - Pietryka, Joseph; and Cazaux, Joel, 4,706,733, Cl. 164-416.000.
- Cazaux, Yves: *See—*
  - Berger, Jean L.; Brissot, Louis; and Cazaux, Yves, 4,680,476, Cl. 250-578.000.
- Cazaux, Yvon: *See—*
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- Cazcarra, Victor; and LeRoueille, Jocelyne, to International Business Machines Corporation. Method of standardizing and stabilizing semiconductor wafers. 4,637,123, 1-20-87, Cl. 29-569.00R.
- Cazeau, Philippe: *See—*
  - Dubroca, Claudie C.; Peirigua, Agues; and Cazeau, Philippe, 4,647,400, Cl. 252-301.160.
- Cazes, Andre: *See—*
  - Bourdon, Raymond; Kunesch, Paul; and Cazes, Andre, 4,699,579, Cl. 425-113.000.
- Cazes, Michel: *See—*
  - Brie, Georges; and Cazes, Michel, 4,649,696, Cl. 53-479.000.
  - Gautier, Paoul L. A.; and Cazes, Michel, 4,633,649, Cl. 53-413.000.
- Cazes, Roland: *See—*
  - Sciaky, Mario; and Cazes, Roland, 4,651,283, Cl. 364-477.000.
  - Sciaky, Mario; Cazes, Roland; and Sayegh, Georges, 4,654,505, Cl. 219-121.0LC.
- Cazin, Pierre, to Nestec, S.A. Display card of plastic material with two anti-theft systems. 4,712,683, 12-15-87, Cl. 206-478.000.
- Cazzulani, Pietro: *See—*
  - Nardi, Dante; Leonardi, Amedeo; Motta, Gianni; and Cazzulani, Pietro, 4,675,319, Cl. 514-234.000.
- CBC Industries, Inc.: *See—*
  - Heimbigner, Thomas; and Tsui, Gary, 4,708,540, Cl. 408-72.00B.
  - Tsui, Gary; and Heimbigner, Thomas, 4,641,986, Cl. 403-164.000.
  - Tsui, Gary; and Heimbigner, Thomas, 4,705,422, Cl. 403-60.000.
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  - Kasha, Walter J.; and Burnison, Chantal S., 4,689,345, Cl. 514-546.000.
  - Kasha, Walter J.; and Burnison, Chantal S., 4,689,349, Cl. 514-691.000.
- CBI Industries, Inc.: *See—*
  - Coers, Don H., 4,714,175, Cl. 220-216.000.
  - Selcukoglu, Yuksel A., 4,704,877, Cl. 62-532.000.
  - Shah, Tushar K.; and Selcukoglu, Yuksel A., 4,666,484, Cl. 62-532.000.
- CBIT Corporation: *See—*
  - Kara, Gerald F.; and Sawyer, William H., 4,697,245, Cl. 364-552.000.
- CBMM Internacional Ltda.: *See—*
  - Okazaki, Susumu; Iizuka, Tokio; and Kado, Satoshi, 4,652,544, Cl. 502-208.000.
  - Okazaki, Susumu; and Kado, Satoshi, 4,666,882, Cl. 502-338.000.
- CBS Inc.: *See—*
  - Goldberg, Abraham A., 4,670,784, Cl. 358-141.000.
  - Nee, Hanphire H., 4,673,467, Cl. 204-23.000.
- CBS/Sony Records Inc.: *See—*
  - Yamada, Masaki; Yokoi, Mitsuru; and Oishi, Kazuhiro, 4,635,792, Cl. 206-310.000.
- CC&T Product Development Co., Inc.: *See—*
  - Tsou, Yeong-Haw, 4,688,334, Cl. 33-444.000.
- CCA, Inc.: *See—*
  - Williams, Leslie P., 4,705,405, Cl. 366-160.000.
- CD Medical Inc.: *See—*
  - Allan, Jonathan M.; Burton, Richard J.; and Jurock, Volker, 4,715,959, Cl. 210-637.000.
- CDP, Ltd.: *See—*
  - Ecer, Gunes M., 4,715,313, Cl. 18-105.000.
- CEAG Electric Corp.: *See—*
  - Greenhalgh, Frank E., 4,635,178, Cl. 363-65.000.
- CEAG Licht- und Stromversorgungstechnik GmbH: *See—*
  - Mayer, Hartwig, 4,639,834, C 361-388.000.
- Cearley, James E.; and Izzo, Kenneth R., to General Electric Company. Nuclear reactor control rod. 4,676,948, 6-30-87, Cl. 376-333.000.
- Cearlock, Steven V.; Peterson, Francis C.; and Kunos, Gene S., to Illinois Tool Works Inc. Friction welding tool. 4,657,626, 4-14-87, Cl. 156-580.000.
- Cearlock, Steven V.; Peterson, Francis C.; and Kunos, Gene S., to Illinois Tool Works Inc. Friction welded fastener system. 4,676,707, 6-30-87, Cl. 411-510.000.
- Ceasar, Gerald P.: *See—*
  - Biter, William J.; and Ceasar, Gerald P., 4,686,323, Cl. 136-249.000.
- Ceca S.A.: *See—*
  - Jdid, El aid; Blazy, Pierre; Bessiere, Jacques; Tracez, Jean C.; and Haicour, Philippe, 4,656,012, Cl. 423-11.000.
- Cecchi, Gianfranco. Process and apparatus for applying labels. 4,643,786, 2-17-87, Cl. 156-187.000.
- Cecchi, Roberto; Boigegrain, Robert; Bianchetti, Alberto; Poggesi, Elena; and Croci, Tiziano, to Sanofi. Phenylethanolaminotetralines, a

process for their preparation and pharmaceutical compositions containing them. 4,707,497, 11-17-87, Cl. 514-647.000.
Cecchini, Valerio. Ice cream making machine incorporating a cold storage container. 4,643,583, 2-17-87, Cl. 366-149.000.
Ceccon, Claude R.; and Mioduski, Paul C., to Tri Sigma Corporation. Self configuring bus structure for computer network. 4,635,192, 1-6-87, Cl. 364-200.000.
Ceccon, Claude R.; Kovara, Joseph N.; and Mioduski, Paul C., to Tri Sigma Corporation. Self configuring computer network with automatic bus exchange of module identification numbers and processor assigned module numbers. 4,660,141, 4-21-87, Cl. 364-200.000.
Cecconi, Arnold L.: *See—*
Spadaro, Peter R.; Smith, Jay E.; Speer, Elmer L.; and Cecconi, Arnold L., 4,695,299, Cl. 55-274.000.
Cech, Jay: *See—*
Young, Peter L.; Cech, Jay; and Li, Kin, 4,705,606, Cl. 204-15.000.
Cecil, Alvin S.: *See—*
McMillan, Thomas A.; Mitchell, Henry W.; and Cecil, Alvin S., 4,639,710, Cl. 338-108.000.
Cecil, Dimitrios G. Resistance spot welding gun and transformer assembly. 4,684,778, 8-4-87, Cl. 219-89.000.
Cecil, Don R.; and Evans, Richard P., to Pacefault Limited. Apparatus for use in cleaning the tape of a tape cassette. 4,713,857, 12-22-87, Cl. 15-97.00R.
Cecon International NV: *See—*
Hunt, Terrance, 4,671,039, Cl. 52-593.000.
Cedar, Dennis A.; and Miller, Ralph L., to Modern Engineering Service Company. Method for making models using simultaneous construction and CAD/CAM techniques. 4,697,240, 9-29-87, Cl. 364-474.000.
Cedar, Larry. Aerobic exercise device. 4,693,469, 9-15-87, Cl. 272-74.000.
Cedar Valley Products, Inc.: *See—*
McGregor, Steven R., 4,646,972, Cl. 239-168.000.
Cedarapids, Inc.: *See—*
Musil, Joseph E., 4,702,642, Cl. 404-118.000.
Warren, Gary R., 4,699,326, Cl. 241-275.000.
Cedars-Sinai Medical Center: *See—*
Goldfinger, Dennis, and Hsi, Rock C., 4,650,662, Cl. 424-11.000.
Cedegur Societe De Transformation De L'Aluminum Pechiney: *See—*
Chailleux, Georges, 4,674,256, Cl. 52-648.000.
Cederberg, Barbara M.; and Musser, Arlene K., to Minnesota Mining and Manufacturing Company. Presensitized color-proofing diazo resin sheet with acrylic thermal adhesive layer. 4,656,114, 4-7-87, Cl. 430-160.000.
Cedercreutz, Axel; and Salminen, Ari, to Tamfelt Oy AB. Spiral wire and a method of manufacturing such a wire. 4,681,287, 7-21-87, Cl. 245-6.000.
Cederwall, Philip J.; and Glezer, Boris, to Solar Turbines Incorporated. Sealed telescopic joint and method of assembly. 4,635,332, 1-13-87, Cl. 29-156.80R.
Cederwall, Philip J.; Evans, David M.; Glezer, Boris; and Hensley, John J., to Solar Turbines Incorporated. Changeable cooling control system for a turbine shroud and rotor. 4,668,162, 5-26-87, Cl. 415-115.000.
Cedoz, Robert W., to General Motors Corporation. Brake for counter rotating bladed members. 4,642,029, 2-10-87, Cl. 416-129.000.
Cedraeus, Hugo: *See—*
Soderholm, Jan; and Cedraeus, Hugo, 4,679,688, Cl. 206-204.000.
Cedrone, Louis A.; Vahjen, Bruce; Garton, Richard T.; Williams, Thomas F.; and Winsor, Malcolm C., to PepsiCo Inc. Vending machine with improved flexibility of product distribution. 4,699,295, 10-13-87, Cl. 221-108.000.
Cedrone, Nicholas J.; and Lee, Kenneth R., to Daymarc Corporation. Momentum arresting device for an integrated circuit tester. 4,641,738, 2-10-87, Cl. 193-40.000.
Cedrone, Nicholas J., to Daymarc Corporation. Broad band contactor assembly for testing integrated circuit devices. 4,689,556, 8-25-87, Cl. 324-158.00P.
CEEE Corporation: *See—*
Codina, George, 4,653,697, Cl. 241-1.000.
Codina, George, 4,667,738, Cl. 166-248.000.
Cefelin, Pavel: *See—*
Hudecek, Slavko; Hudeckova, Iva; Otoupalova, Jaroslava; and Cefelin, Pavel, 4,656,236, Cl. 526-264.000.
Janouch, Vaclav; Hrudkova, Hana; and Cefelin, Pavel, 4,707,516, Cl. 525-60.000.
Cefilac: *See—*
Rogemont, Jean; and Nouvet, Andre, 4,701,234, Cl. 156-230.000.
Cefin S.p.A.: *See—*
Pazzaglia, Luigi, 4,714,816, Cl. 219-109.000.
Cegedur Societe de Transformation de l'Aluminium Pechiney: *See—*
Alliot, Maurice; Meteau, Jean-Louis; and Reboul, Max, 4,699,203, Cl. 164-461.000.
Bauduin, Gerard; Boutevin, Bernard; Deiss, Willy-Jean; and Pietrasanta, Yves, 4,638,018, Cl. 522-103.000.
Faure, Jean-Francois, 4,661,154, Cl. 75-231.000.
Meyer, Philippe, 4,652,314, Cl. 148-2.000.
Richard, Robert, 4,653,303, Cl. 72-236.000.
Cegelec Industrie Inc.: *See—*
Jeanjean, Robert; Demissy, Daniel; Saint-Jean, Guy; and Landry, Michel, 4,711,978, Cl. 200-148.00A.
Cel Co., Inc.: *See—*
Fox, Steve A.; Murray, Donald L.; and Dinkin, Frederick, 4,648,414, Cl. 132-43.00R.
Celamerck GmbH & Co. KG: *See—*
Itzel, Hanshelmut; and Barth, Volker, 4,705,191, Cl. 222-80.000.
Mengel, Rudolf; Schroder, Ludwig; Stransky, Werner; Linden, Gerbert; and Lust, Sigmund, 4,655,824, Cl. 71-94.000.
Sehring, Richard; Buck, Wolfgang; Prokic-Immel, Ricarda; and Lust, Sigmund, 4,639,438, Cl. 514-129.000.
Celanese Chemical Co.: *See—*
Berg, Lloyd, 4,692,219, Cl. 203-51.000.
Celanese Corporation: *See—*
Auerbach, Andrew; and Natarajan, Kavilipalayam, 4,666,995, Cl. 525-400.000.
Auerbach, Andrew B.; and McKie, Derrick B., 4,652,594, Cl. 525-208.000.
Auerbach, Andrew B.; and McKie, Derrick B., 4,689,373, Cl. 525-398.000.
Bayliss, Jack B., Sr., 4,662,042, Cl. 28-269.000.
Black, William B., 4,661,404, Cl. 428-369.000.
Bryant, Ronald O.; Millen, William L.; and Swander, Robert E., 4,655,230, Cl. 131-343.000.
Buckley, Alan; Choe, Eui W.; Stuetz, Dagobert E.; and Garito, Anthony F., 4,707,303, Cl. 252-583.000.
Calundann, Gordon W.; Rasoul, Husam A. A.; and Hall, Henry K. Jr., 4,654,412, Cl. 528-176.000.
Che, Tessie M., 4,642,394, Cl. 568-861.000.
Choe, Eui W.; Buckley, Alan; and Garito, Anthony F., 4,640,800, Cl. 260-396.00N.
Choe, Eui W.; Khanarian, Garo; and Garito, Anthony F., 4,659,177, Cl. 350-96.340.
Choe, Eui W.; Buckley, Alan; and Garito, Anthony F., 4,667,042, Cl. 548-300.000.
Choe, Eui W., 4,694,048, Cl. 525-376.000.
Choe, Eui W., 4,703,096, Cl. 526-248.000.
Choe, Eui W.; Buckley, Alan; and Garito, Anthony F., 4,707,305, Cl. 260-396.00N.
Clark, Terence J.; and Johnson, Robert E., 4,687,657, Cl. 423-412.000.
Collins, George L.; Zema, Paul; and Rashada, Yusuf A., 4,652,613, Cl. 525-69.000.
Davenport, Kenneth G., 4,665,215, Cl. 560-130.000.
Davenport, Kenneth G., 4,675,449, Cl. 568-319.000.
Davenport, Kenneth G., 4,692,546, Cl. 560-130.000.
DeFazio, Charles A., 4,656,222, Cl. 524-801.000.
DeMartino, Ronald N.; Langley, Jeffrey T.; and Johnson, Robert D., 4,666,454, Cl. 8-494.000.
DeMartino, Ronald N.; Yoon, Hyun-Nam; Stamatoff, James B.; and Buckley, Alan, 4,694,066, Cl. 528-373.000.
Dotson, Duane L.; and Forschirm, Alex, 4,692,168, Cl. 44-7.100.
Elmore, Jimmy D.; and Goff, Elizabeth S., 4,678,843, C 525-378.000.
Elmore, Jimmy D.; and Schwert, Raphael J., 4,689,371, Cl. 525-374.000.
Foley, Paul, 4,693,914, Cl. 427-255.000.
Gibbon, John D.; and Adkins, Virgil J., Jr., 4,675,378, Cl. 528-272.000.
Goldberg, Harris A.; Kalnin, Ilmar L.; Williams, Clyde C.; and Spain, Ian L., 4,642,664, Cl. 357-2.000.
Gupta, Balaram B. G., 4,668,826, Cl. 568-319.000.
Gupta, Balaram B. G., 4,694,111, Cl. 568-662.000.
Gupta, Balaram B. G., 4,709,102, Cl. 568-780.000.
Hagedorn, Scott, 4,634,668, Cl. 435-146.000.
Hagedorn, Scott, 4,654,303, Cl. 435-172.300.
Hagedorn, Scott, 4,666,841, Cl. 435-122.000.
Hagedorn, Scott, 4,673,646, Cl. 435-146.000.
Harris, William F., Jr., 4,637,849, Cl. 149-43.000.
Horlenko, Theodore; and George, James H., 4,665,216, Cl. 560-142.000.
Kalnin, Ilmar L.; Goldberg, Harris A.; and Breckenridge, George J., Jr., 4,634,546, Cl. 252-506.000.
Kalnin, Ilmar L.; and Goldberg, Harris A., 4,707,423, Cl. 429-112.000.
Kuder, James E.; and Chen, John C., 4,634,530, Cl. 210-500.230.
Kuder, James E., 4,636,804, Cl. 346-1.100.
Kusumgar, Rajal M.; and Amond, Carl A., 4,665,126, Cl. 525-66.000.
Kusumgar, Rajal M., 4,713,414, Cl. 525-64.000.
LaNieve, H. Leslie, III; Drzal, Robert S.; and Ehrlich, Benjamin S., 4,707,525, Cl. 525-399.000.
Letinski, John S., 4,681,716, Cl. 264-53.000.
Maurer, Charles J., 4,670,580, Cl. 560-89.000.
Maxwell, Peter C.; Hsieh, Jin-Han; and Fieschko, John C., 4,657,863, Cl. 435-142.000.
Murphy, Carl D.; Keene, Donna L.; and Lindley, Daniel D., 4,663,485, Cl. 568-319.000.
Nicolau, Ioan; and Aguilo, Adolfo, 4,652,683, Cl. 568-319.000.
O'Brien, David P., 4,647,609, Cl. 524-267.000.
Ranade, Gautam R., 4,661,580, Cl. 528-176.000.
Rasoul, Husam A. A., 4,640,948, Cl. 524-157.000.
Rosenfeld, Jerold C., 4,678,825, Cl. 524-83.000.
Rosenfeld, Jerold C.; and Pawlak, Joseph A., 4,680,371, Cl. 528-179.000.
Rosenfeld, Jerold C., 4,680,372, Cl. 528-179.000.
Saleh, Lotfy L.; Turton, John A.; and Matthews, Steven L., 4,642,860, Cl. 28-269.000.
Sansone, Michael J., 4,666,996, Cl. 525-426.000.
Sansone, Michael J., 4,693,824, Cl. 210-500.280.
Stackman, Robert W., 4,683,327, Cl. 560-86.000.
Steele, Douglas W.; Nash, George S.; Dorsey, John W.; Christy, Ronald S.; and Burns, Timothy L., 4,692,290, Cl. 264-101.000.

  - Stirling, David L., 4,652,527, Cl. 435-253.000.
  - Trouw, Norman S., 4,693,825, Cl. 210-500.280.
  - Ward, Bennett C., 4,672,104, Cl. 528-336.000.
  - Whitley, Cornell, Jr.; Millen, William L.; and Trail, George C., Jr., 4,699,606, Cl. 493-4.000.
- Celanese Engineering Resins, Inc.: *See—*
  - Boldt, Clifford R.; and Greene, Richard K., 4,692,505, Cl. 528-241.000.
  - Chacko, Varkki P.; DeStio, Paul; and Baum, Gerald A., 4,677,150, Cl. 524-449.000.
  - Chacko, Varkki P.; and Baum, Gerald A., 4,689,365, Cl. 524-539.000.
- Celarier, Jean E., to S. T. Dupont. Writing instrument cap and clip therefor. 4,706,341, 11-17-87, Cl. 24-11.00R.
- Celek, John E.: *See—*
  - Vaughn, Steven T.; Bergholz, Eugene W.; Celek, John E.; Gohde, Lewis J.; and Peters, Michael A., 4,647,986, Cl. 360-35.100.
- Celerier, Jean-Pierre: *See—*
  - Clement, Jean-Luc; Lemaire, Michele; Lange, Catherine; Lhommet, Gerard; Celerier, Jean-Pierre; Basselier, Jean-Jacques; and Cassier, Pierre, 4,707,489, Cl. 514-408.000.
- Celes: *See—*
  - Nuns, Jacques; and Abraham, Joseph, 4,673,781, Cl. 219-10.49R.
- Celino, Cecilio, administrator: *See—*
  - Celino, Martin S., deceased; Celino, Cecilio, administrator; and Larrauri, Antonio, administrator, 4,639,467, Cl. 514-468.000.
- Celino, Martin S., deceased; by Celino, Cecilio, administrator; and Larrauri, Antonio, administrator. Antibiotic Crisamicin A and compositions thereof. 4,639,467, 1-27-87, Cl. 514-468.000.
- Cell Environmental Systems, Ltd.: *See—*
  - Berry, Eric S.; and Danti, Bernard R., 4,661,458, Cl. 435-284.000.
- Cella, James A.; Grade, Marsha M.; and Evans, Thomas L., to General Electric Company. Flame retardant wire coating compositions. 4,690,997, 9-1-87, Cl. 528-26.000.
- Cellai, Marino: *See—*
  - Colombo, Piero; Cellai, Marino; and Cognetti de Martiis, Carlo, 4,712,127, Cl. 357-72.000.
- Cellarius, Hans J.: *See—*
  - Hoegerle, Karl; Cellarius, Hans J.; Rathgeb, Paul; and Rumpf, Jurg, 4,686,294, Cl. 548-140.000.
- Celleco AB: *See—*
  - Fjallstrom, Roland; and Frykhult, Rune, 4,676,809, Cl. 55-204.000.
  - Hermansson, Hans, 4,648,970, Cl. 210-327.000.
- Celleco A.B.: *See—*
  - Fjallstrom, Roland O. A., 4,650,570, Cl. 209-250.000.
- Celler, George K., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Fabrication of dielectrically isolated devices utilizing buried oxygen implant and subsequent heat treatment at temperatures above 1300° C. 4,676,841, 6-30-87, Cl. 148-1.500.
- Cellexfabrikerna AB: *See—*
  - Dahlin, Per O., 4,637,731, Cl. 366-64.000.
- Celli, Giuliano. Universal trailer. 4,685,855, 8-11-87, Cl. 414-482.000.
- Cellich, William A.: *See—*
  - Hodgens, Henry M., II; and Cellich, William A., 4,713,120, Cl. 134-3.000.
- Cellier, Francis; Graulty, Robert T.; Johnson, Wendell L.; Batson, David M.; Limpert, John C.; Wu, Christopher K. C.; Bucher, George D.; John, Clarence D., Jr.; Steinkirchner, John E.; Larouere, Paula J.; Shah, Hemant H.; and Williams, Robert A., to Westinghouse Electric Corp. Manufacturing automation system for nuclear fuel rod production. 4,687,605, 8-18-87, Cl. 264-0.500.
- Cellucap Manufacturing Company: *See—*
  - McKeown, Thomas J., 4,691,390, Cl. 2-200.000.
- Cellutron Corporation: *See—*
  - Corris, C. James; and Beck, Blaine E., 4,654,481, Cl. 379-62.000.
- Celmer, Walter D.; Cullen, Walter P.; Maeda, Hiroshi; and Tone, Junsuke, to Pfizer Inc. Method of preparing a new polyether antibiotic from streptomyces. 4,652,523, 3-24-87, Cl. 435-119.000.
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  - Andreichuk, Gregory, 4,687,790, Cl. 523-130.000.
  - Goll, John D., 4,698,257, Cl. 428-227.000.
  - Jacobina, Charles E., 4,692,477, Cl. 521-174.000.
  - Kasprzak, David P., 4,712,351, Cl. 52-573.000.
  - Marshik, Gary J., 4,642,845, Cl. 16-194.000.
  - Overgard, Bruce L., 4,697,304, Cl. 16-198.000.
  - Snider, Scott C.; and DeLeon, Alberto, 4,711,912, Cl. 521-125.000.
  - Soukup, Thomas G.; and Oliver, John P., 4,710,521, Cl. 521-118.000.
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  - Collins, Michael J.; and Goetchius, Ronald J., 4,651,285, Cl. 364-496.000.
  - Collins, Michael J.; and Hargett, Wyatt P., Jr., 4,681,996, Cl. 219-10.55M.
  - Floyd, Terry S., 4,672,996, Cl. 137-522.000.
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  - Colin, Laurence, 4,666,521, Cl. 106-97.000.
- Cembruch, Bronislau J.; and Werner, Walter M., to AMP Incorporated. Grounding connector. 4,693,688, 9-15-87, Cl. 439-877.000.
- Cemco, Inc.: *See—*
  - Lawrence, William A. P., 4,694,935, Cl. 187-111.000.
- Cemedine Co., Ltd.: *See—*
  - Ikeda, Shigeru; and Okamura, Naomi, 4,681,524, Cl. 425-376.00R.
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  - Blaker, James G.; and Statsney, Joseph F., 4,655,111, Cl. 83-356.300.
- Cemenska, Richard A.: *See—*
  - Barrett, John R.; Cemenska, Richard A.; Gladden, John R.; Moeckel, Mark D.; and Schneider, Philip H., 4,684,321, Cl. 415-202.000.
- Cementa AB: *See—*
  - Ericsson, Tor S., 4,708,488, Cl. 366-2.000.
  - Fagerlund, Goran, 4,668,541, Cl. 427-397.700.
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  - Rogers, Albert J.; Smith, Michael E.; and Trounson, James E., 4,657,455, Cl. 409-235.000.
- Cenanovic, Matija. Forming method using an electromagnetically exploded filament. 4,635,840, 1-13-87, Cl. 228-107.000.
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  - Lopez, Gilbert T., 4,683,789, Cl. 83-35.000.
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  - Mo, Frank S. C., 4,636,894, Cl. 360-103.000.
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  - Kirschey, Gerhard, 4,664,642, Cl. 464-96.000.
- Centala, John P.; and McElreath, Kenneth W., to Rockwell International Corporation. Automatic flight control with pilot fly-through. 4,642,774, 2-10-87, Cl. 364-434.000.
- Centanne, Michael. Escape system. 4,664,226, 5-12-87, Cl. 182-82.000.
- Centaur Fencing Systems, Inc.: *See—*
  - Robbins, Edward S., Jr., 4,706,942, Cl. 256-35.000.
- Centaur Sciences, Inc.: *See—*
  - Deckert, Clinton; and Wilson, Larry L., 4,681,563, Cl. 604-67.000.
- Centech Corporation: *See—*
  - Plapp, Nile E.; and Willett, Ray W., 4,634,000, Cl. 198-800.000.
- Center for Blood Research: *See—*
  - Audeh, Zuheir L., 4,702,814, Cl. 204-299.00R.
- Center for Molecular Medicine & Immunology: *See—*
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- Center, Gene R., to R. E. Baker Company, Inc. Escalator sweeping mechanism. 4,709,441, 12-1-87, Cl. 15-301.000.
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  - Bartholomew, Alan; Bauer, Harold; Berry, Loren E.; and Ediger, Glen, 4,693,406, Cl. 227-63.000.
- Center, Warren A., to K. W. Thompson Tool Company, Inc. Sight system for a firearm. 4,691,442, 9-8-87, Cl. 33-253.000.
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  - Chang, Tse W.; Kung, Patrick C.; Le, Junming; Liu, Victor; and Vilcek, Jan, 4,666,865, Cl. 436-518.000.
- Centofanti, Ermand: *See—*
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- Centore, Anthony. Round electrical cable adapting tool. 4,680,852, 7-21-87, Cl. 29-461.000.
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  - De Boer, Gerben F., 4,673,572, Cl. 424-89.000.
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  - Sutton, John, 4,652,523, Cl. 324-240.000.
- Central Electricity Generating Board of Sudbury House: *See—*
  - Theocharous, Evangelos, 4,713,538, Cl. 250-227.000.
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  - Aratani, Shinichi; Katano, Masaaki; and Mizoguchi, Takeshi, 4,671,814, Cl. 65-30.140.
- Central Glass Company, Limited: *See—*
  - Abe, Yoshihiro; and Hosono, Hideo, 4,703,019, Cl. 501-13.000.
  - Aono, Koji; Saito, Toshinori; and Okada, Chiharu, 4,639,361, Cl. 423-347.000.
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  - Kita, Yasushi; and Moroi, Shiro, 4,710,335, Cl. 264-105.000.
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  - Kondo, Takeshi; Maruta, Masamichi; and Oshio, Hideki, 4,647,695, Cl. 562-605.000.
  - Matsumoto, Masakatsu; and Nishimura, Yasunobu, 4,705,884, Cl. 560-109.000.
  - Miyata, Seizo; Nakahama, Hidenari; and Kasuga, Takeshi, 4,696,838, Cl. 427-407.200.
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  - Yasumura, Takashi; Koishi, Toshio; and Tanaka, Isao, 4,642,326, Cl. 525-153.000.
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  - Yokoyama, Tadashi; Kaizuka, Toshio; Naito, Junichi; Numazawa, Kenichi; Ohashi, Minoru; and Kikuchi, Tomoo, 4,665,736, Cl. 73-19.000.
- Central Laboratory of the Swiss Red Cross Blood Transfusion Service: *See—*
  - Hassig, Alfred, 4,676,982, Cl. 424-85.000.
- Central Machine and Tool Company: *See—*
  - Vargo, Edward E., 4,647,075, Cl. 285-82.000.
- Central Mine Equipment Company: *See—*
  - Rassieur, Charles L., 4,638,871, Cl. 173-26.000.
- Central Plastics Company: *See—*
  - Eggleston, Dean F., 4,684,789, Cl. 219-497.000.
  - Evans, Harold J., 4,663,794, Cl. 15-104.040.
  - Inhofe, James A., Jr.; and Evans, Harold J., 4,708,527, Cl. 405-216.000.
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  - Ramsey, Russel G., 4,642,155, Cl. 156-359.000.
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  - McCambridge, James, 4,654,926, Cl. 15-327.00D.
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- Central Research Institute of Electric Power Industry: *See—*
  - Hattori, Sadao, 4,645,633, Cl. 376-179.000.
  - Sakurai, Akio; and Kato, Ryoichi, 4,681,726, Cl. 376-171.000.
  - Uotani, Masaki; Yamanaka, Tsuneyasu; and Fukumoto, Wasao, 4,664,876, Cl. 376-290.000.
- Central Security Mfg. Corp.: *See—*
  - Shirley, John R., 4,682,155, Cl. 340-573.000.
- Central Soya Company, Inc.: *See—*
  - Faber, Jerry L.; and Kent, Richard W., Jr., 4,634,592, Cl. 426-1.000.
  - Meyer, Edwin W., 4,664,905, Cl. 426-2.000.
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  - Pieczykolan, George S., 4,648,459, Cl. 169-38.000.
  - Polan, George S.; and Glinecke, Hermann R., 4,711,099, Cl. 62-457.000.
- Central States Products Company: *See—*
  - Fleming, James D., 4,655,388, Cl. 229-45.00R.
- Centrala Industriala de Medicamente Cosmetice Coloranti Si Lacuri: *See—*
  - Dinu, Romulus C.; and Dinu, Illeana D., 4,689,347, Cl. 514-557.000.
- Centre Antoine-Lacassagne: *See—*
  - Barjon, Robert; and Breynat, Genevieve, 4,666,651, Cl. 376-108.000.
- Centre de Recherche Industrielle du Quebec: *See—*
  - Altounian, George N.; and Grenier, Daniel, 4,716,213, Cl. 528-283.000.
  - Leen, Kee K. L. S.; and Chang, Jin R., 4,708,857, Cl. 423-277.000.
  - Tam, Le Dinh C.; Garceau, Roger; and Leblanc, Andre, 4,673,982, Cl. 358-167.000.
- Centre de Recherches en Physique des Plasma (CRPP): *See—*
  - Tran, Minh Q.; and Bondeson, Anders, 4,705,988, Cl. 315-4.000.
- Centre de Recherches Metallurgiques-Centrum Voor Research in de Metallurgie: *See—*
  - Bach, Norbert; Economopoulos, Marios; Gredt, Marc; Lessel, Guy; and Schummer, Arthur, 4,704,166, Cl. 148-12.00B.
  - Economopoulos, Marios; Lambert, Nicole; Simon, Pierre; and Conti, Rene , 4,668,308, Cl. 148-12.00R.
  - Economopoulos, Marios, 4,702,812, Cl. 204-208.000.
  - Monfort, Guy; Crahay, Jean; and Bragard, Adolphe, 4,679,288, Cl. 29-121.800.
- Centre d'Etude des Materiaux Organiques pour Technologies Avancees: *See—*
  - Malinge, Jean; Rabilloud, Guy; and Sillion, Bernard, 4,645,821, Cl. 528-331.000.
- Centre Electronique Horloger S.A.: *See—*
  - Degrauwe, Marc; and Vittoz, Eric A., 4,672,304, Cl. 323-314.000.
- Centre Hospitalier Regional de Tours: *See—*
  - Ropars, Claude; Nicolau, Yves C.; and Chassaigne, Maurice, 4,652,449, Cl. 424-101.000.
- Centre International de Recherches Dermatologiques (C.I.R.D.): *See—*
  - Shroot, Braham; Lang, Gerard; Maignan, Jean; and Colin, Michel, 4,654,354, Cl. 514-372.000.
  - Shroot, Braham; Lang, Gerard; and Maignan, Jean, 4,677,123, Cl. 514-680.000.
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  - Argoud, Roger; and Muller, Jean-Noel, 4,658,411, Cl. 378-81.000.
  - Attal, Jacques; and Cambon, Gaston, 4,641,530, Cl. 73-606.000.
  - Barton, Derek H. R.; Crich, David; and Motherwell, William B., 4,668,356, Cl. 204-157.600.
  - Benoit, Alain D.; and Pujol, Serge, 4,672,823, Cl. 62-514.00R.
  - Bonel, Gilbert; Heughebaert, Jean C.; Chaabouni, Mohamed; and Ayedi, Hassine, 4,692,323, Cl. 423-321.00R.
  - Brunel, Sylvain; Germanaud, Laurent; Le Perchec, Pierre; and Sillion, Bernard, 4,704,229, Cl. 252-352.000.
  - Cagan, Vladimir; and Guyot, Marcel, 4,649,495, Cl. 364-481.000.
  - Chaumont, Philippe; Beinert, Gerard; Herz, Jean; and Rempp, Paul, 4,687,814, Cl. 525-242.000.
  - Clement, Jean-Luc; Lemaire, Michele; Lange, Catherine; Lhommet, Gerard; Celerier, Jean-Pierre; Basselier, Jean-Jacques; and Cassier, Pierre, 4,707,489, Cl. 514-408.000.
  - Clemino, Alain, 4,670,338, Cl. 428-312.600.
  - Colin, Yves; Rosse, Gabriel; Guyader, Jean; and Laurent, Yves, 4,695,432, Cl. 422-98.000.
  - Commeyras, Auguste; Taillades, Jacques; Brugidou, Jean; Mion, Louis; Sola, Regine; Pascal, Robert; Lasperas, Monique; and Rousset, Alain, 4,677,224, Cl. 562-557.000.
  - Constant, Eugene; Leroy, Yves; and Van De Velde, Jean-Claude, 4,677,988, Cl. 128-736.000.
  - Corriu, Robert J.; Cerveau, Genevieve E.; Chuit, Claude G.; and Reye, Catherine, 4,665,209, Cl. 556-474.000.
  - Dahan, Noel; Guilhaumou, Nicole; and Couty, Rene W., 4,707,086, Cl. 350-536.000.
  - Decoster, Didier; Fauquembergue, Renaud; and Constant, Monique, 4,652,335, Cl. 156-643.000.
  - Demoulin, Catherine A.; Ausserre, Dominique; and Rondelez, Francis, 4,688,938, Cl. 356-154.000.
  - Dubroca, Claudie C.; Peirigua, Agues; and Cazeau, Philippe, 4,647,400, Cl. 252-301.160.
  - Fruchart, Robert; Madar, Roland; Rouault, Alain; L'Heritier, Philippe; Taunier, Pierre; Boursier, Daniel; Fruchart, Daniel; and Chaudouet, Patrick, 4,663,066, Cl. 252-62.510
  - Gaud, Pierre; and Joubert, Jean-Claude, 4,671,885, Cl. 252-62.590
  - Goldman, Max; Goldman, Alice; Kuhn, Stephane; Langlois, Pierre-Emmanuel; and Berger, Gerard, 4,652,694, Cl. 174-3.000.
  - Jaouen, Gerard; Vessieres, Anne; and Top, Siden, 4,656,142, Cl. 436-501.000.
  - Joliot, A. Pierre; and Beal, Daniel, 4,696,570, Cl. 356-319.000.
  - Kergomard, Jean; and Meynial, Xavier, 4,714,001, Cl. 84-386.000.
  - Le Beyec, Yvon; and Negra, Serge D., 4,694,168, Cl. 250-287.000.
  - Le Caer, Gerard; and Dubois, Jean-Marie, 4,710,246, Cl. 148-403.000.
  - Leprince, Philippe; Marec, Jean; Saada, Serge; Bloyet, Emile; and Migne, Jacques, 4,698,822, Cl. 372-70.000.
  - Letournel, Michel; Helleboid, Jean-Marie; and Teissier, Claude, 4,680,496, Cl. 310-308.000.
  - Marbot, Roland; and Polonovski, Jean-Pierre, 4,675,651, Cl. 340-347.0AD.
  - Martinez, Jean; Bali, Jean-Pierre; Castro, Bertrand; Nisato, Dino and Demarne, Henri, 4,636,490, Cl. 514-15.000.
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  - Michel, Alain; and Gondard, Christian, 4,647,629, Cl. 525-350.000
  - Monsigny, Michel; and Mayer, Roger, 4,703,107, Cl. 530-330.000
  - Negra, Serge D.; and Le Beyec, Yvon, 4,677,295, Cl. 250-287.000
  - Piot, Jean-Marie; Guillochon, Didier; Charet, Pierre; and Thomas, Daniel, 4,650,589, Cl. 210-691.000.
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  - Verney, Marthe B.; and Doucet, Henri J., 4,661,710, Cl. 25 423.00R.
  - Vialaron, Andre ; Olalde, Gabriel; and Gauthier, Daniel, 4,696,8 Cl. 423-579.000.
  - Vijayalakshmi, Mookambeswaran A.; and Rajgopal, Sunand 4,666,604, Cl. 210-542.000.
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  - Martinez, Jean; Bali, Jean-Pierre; Magous, Richard; Castro, Be trand; and Demarne, Henri, 4,687,760, Cl. 514-18.000.
- Centre National d'Etudes des Telecommunications: *See—*
  - Veillard, Jacques, 4,713,689, Cl. 358-146.000.
- Centre National d'Etudes Spatiales: *See—*
  - Guillaumon, Jean-Claude; Blet, Louis J. C.; and Guerard, Fra coise M. J. B., 4,655,966, Cl. 252-518.000.
  - Regipa, Robert, 4,696,444, Cl. 244-127.000.
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  - Rouzies, Christian, 4,678,983, Cl. 32?-222.000.
  - Scheller, Alfred K., 4,697,416, Cl. 60-240.000.
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  - Battie, Gabriel; and Bonnel, Yves, 4,671,867, Cl. 209-3.000.
- Centre Technique de l'Industrie des Papiers Cartons et Cellulos *See—*
  - Sabater, Jacques; and Bauduin, Serge, 4,707,223, Cl. 162-262.00
- Centre Technique de l'Industrie Horlogere "Cetehor": *See—*
  - Chatelain, Jean-Claude, 4,665,330, Cl. 310-49.00R.
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  - Auger, Marc, 4,684,865, Cl. 318-696.000.
  - Lecerf, Jean-Pierre; Favey, Charles; and Meurice, Pie 4,705,059, Cl. 137-82.000.
  - Pluviose, Michel, 4,688,755, Cl. 251-121.000.
  - Wartelle, Claude, 4,700,747, Cl. 137-625.230.
- Centri-Spray Corporation: *See—*
  - Harlow, Raymond P., 4,658,954, Cl. 198-774.000.
- Centrifugal Piston Expander, Inc.: *See—*
  - Greene, David R., 4,658,703, Cl. 91-170.00R.
  - Weiswurm, Klaus D., 4,676,139, Cl. 91-265.000.
- Centro Electronique Horloger S.A.: *See—*
  - Rudolf, Felix, 4,680,544, Cl. 324-259.000.
  - Salchli, Francois H., 4,656,574, Cl. 363-60.000.

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  Lundgren, Nils L., 4,648,297, Cl. 83-27.000.

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  D'Angelo, Renato; Ramacciotti, Aldo; Repetto, Eugenio; and Tolve, Pietro, 4,645,534, Cl. 75-10.220.
  Lubrano, Maurizio, 4,638,654, Cl. 72-201.000.
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  Podrini, Maurizio; Ferretti, Alessandro; and Di Schino, Giancarlo, 4,671,433, Cl. 222-606.000.
  Sabatini, Bruno, 4,645,185, Cl. 266-114.000.
  Sironi, Giovanni, 4,676,825, Cl. 75-51.100.

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  Calvani, Riccardo; Caponi, Renato; and Cisternino, Francesco, 4,671,657, Cl. 356-349.000.

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  Chapman, Walter C., 4,665,820, Cl. 101-93.140.

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  Niedbala, Marian; Rozegnal, Jerzy; and Pankow, Wlodzimierz, 4,665,784, Cl. 82-32.000.

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  Friedlander, Randal H.; Nash, Sheryl A.; and Komitor, Greg A., 4,695,493, Cl. 428-40.000.

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  Servay, Willy, 4,665,591, Cl. 24-163.00K.

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  Holmes, Gerald E.; and Pace, Jerry E., 4,679,978, Cl. 414-563.000.

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  Joshi, Ashok V., 4,674,321, Cl. 73-40.700.
  Virkar, Anil V., 4,656,071, Cl. 428-36.000.
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  Bardo, Charles J.; Seawell, Jesse Q.; Dylewski, Anthony J.; and Clark, John L., Jr., 4,637,903, Cl. 261-24.000.

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  de Decker, Daniel; Parraud, Rene ; and Tartier, Serge, 4,670,624, Cl. 174-140.00R.
  Dumora, Denis, 4,656,720, Cl. 29-520.000.
  Garcera, Daniel; and Gillot, Jacques, 4,640,774, Cl. 210-323.200.
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  Kaczerginski, Alexandre, 4,702,873, Cl. 264-135.000.

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  Forster, Martin, 4,668,635, Cl. 436-134.000.
  Frigon, Raymond A., 4,650,989, Cl. 250-221.000.
  Guttinger, Hannes; and Pfister, Gustav, 4,642,471, Cl. 250-574.000.
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  Mudge, Philip H., 4,644,164, Cl. 250-353.000.
  Muller, Kurt; Gruber, Peter; and Wuthrich, Alfred, 4,709,152, Cl. 250-342.000.
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Cerchio, Vincent L., Jr.: *See—*
  Strampach, Norman A.; Cerchio, Vincent L., Jr.; and Schmidt, William W., 4,652,390, Cl. 252-92.000.

Cerdan-Diaz, Juan M.; Sanders, Michael J.; and Wellar, Mark E., to Kennecott Corporation. Spray-applied ceramic fiber insulation. 4,640,848, 2-3-87, Cl. 427-426.000.

Cerdan, Jean-Pierre; Dueymes, Eric; Talleu, Patrick; Carnel, Jean; Palacio, Gerard; and Franzolini, Marc, to Stein Industrie; and Electricite de France (Service National). Centrifuging mixture separator. 4,650,578, 3-17-87, Cl. 210-197.000.

Cerebral Palsy Research Foundation of Kansas, Inc.: *See—*
  Dewees, James A., 4,635,932, Cl. 272-96.000.

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Cereda, Enzo; Bietti, Giuseppe; Donetti, Arturo; del Soldato, Piero; Giachetti, Antonio; and Pagani, Ferdinando, to Istituto de Angeli S.p.A. Formamidine derivatives and pharmaceutical use. 4,666,932, 5-19-87, Cl. 514-400.000.

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Cereda, Enzo: *See—*
  Bietti, Giuseppe; Cereda, Enzo; Donetti, Arturo; del Soldato, Piero; Giachetti, Antonio; and Micheletti, Rosamaria, 4,645,841, Cl. 548-128.000.
  Bietti, Giuseppe; Cereda, Enzo; Donetti, Arturo; Giachetti, Antonio; and Pagani, Ferdinando, 4,649,150, Cl. 514-392.000.

Cerez, Pierre: *See—*
  Avila, Gerardo; and Cerez, Pierre, 4,684,900, Cl. 331-3.000.

Cerf, Roland, to EIF Electronic Industrial Equipment S.A. Device for exposing discrete portions of a photosensitive surface by means of a light beam. 4,653,882, 3-31-87, Cl. 354-4.000.

Cerini, Adolfo G.; and Riganti, Gianpiero R., to Isotta Fraschini S.p.A. I.C. diesel engine with low permanent magnetic signature. 4,665,870, 5-19-87, Cl. 123-195.00R.

Cerline Ceramic Corporation: *See—*
  Davis, Thomas E., 4,684,155, Cl. 285-16.000.

Cermak, Jan: *See—*
  Vitovec, Jaroslav; Cermak, Jan; and Smolik, Jiri, 4,696,683, Cl. 55-82.000.

Cermanov, Atanas S.; Kazarov, Ljubomir R.; Valev, Marco S.; Jelyazcov, Jelyazco C.; and Kolev, Rusy C., to N P S P "Desintegrator". Apparatus for material grinding. 4,641,791, 2-10-87, Cl. 241-66.000.

Cermetek Microelectronics, Inc.: *See—*
  Durham, Stephen J., 4,682,352, Cl. 379-98.000.

Cermol S.A.: *See—*
  Sunkel, Carlos E.; Fau de Casa-Juana, Miguel; Statkow, Peter R.; and Straumann, Danielle, 4,656,181, Cl. 514-336.000.

Cerna, Peter: *See—*
  Taylor, Thomas C.; and Cerna, Peter, 4,650,139, Cl. 244-161.000.

Cernak, Boris; and Klein, Karol, to Vyzkumny ustav inzenierskych stavieb. Compacted deep foundation structure, method of and apparatus for building the same. 4,634,316, 1-6-87, Cl. 405-229.000.

Cernansky, Joseph S.: *See—*
  Rudell, Elliot A.; Cernansky, Joseph S.; and Foster, George T., 4,697,812, Cl. 273-86.00B.

Cerni, Samuel: *See—*
  Wilson, John F.; Gjertsen, Robert K.; and Cerni, Samuel, 4,642,217, Cl. 376-451.000.
  Wilson, John F.; Doshi, Pratap K.; and Cerni, Samuel, 4,664,878, Cl. 376-328.000.
  Wilson, John F.; Gjertsen, Robert K.; and Cerni, Samuel, 4,678,618, Cl. 376-156.000.
  Wilson, John F.; Gjertsen, Robert K.; and Cerni, Samuel, 4,684,495, Cl. 376-352.000.
  Wilson, John F.; Cerni, Samuel; and Gjertsen, Robert K., 4,687,619, Cl. 376-260.000.
  Wilson, John F.; Gjertsen, Robert K.; and Cerni, Samuel, 4,687,627, Cl. 376-333.000.

Cernochova, Slavjanka: *See—*
  Krepelka, Jiri; Vancurova, Iva; Rezabek, Karel; Melka, Milan; Pujman, Vojtech; Pokorna, Stanislava; Reichlova, Ruzena; and Cernochova, Slavjanka, 4,661,297, Cl. 260-501.180.

Cerny, Antonin; Krepelka, Jiri; Rezabek, Karel; Fruhaufova, Maria; Pesak, Milan; Sevcik, Bohumil; Kral, Josef; Borovicka, Antonin; Bilek, Petr; Picmausova, Dagmar; Stuchlik, Josef; Picha, Josef; and Strakova, Jana, to SPOFA, spojene podniky pro zdravotnickou vyrobu. Method for treatment of endometritis in mammalian females. 4,692,452, 9-8-87, Cl. 514-288.000.

Cerny, Gene L. Apparel drying tray. 4,677,764, 7-7-87, Cl. 34-195.000.

Cerny, John, Jr., to Deere & Company. Cotton doffer unit. 4,644,736, 2-24-87, Cl. 56-41.000.

Cerny, Martin: *See—*
  Kasafirek, Evzen; Cerny, Martin; Kocis, Petr; Krepelka, Jiri; and Rovensky, Jozef, 4,711,952, Cl. 530-327.000.

Cerqua, Kathleen A.: *See—*
  Jacobs, Stephen D.; and Cerqua, Kathleen A., 4,679,911, Cl. 350-347.00E.

Cerruti, Eraldo, to Fiat Auto S.p.A. Device for visually displaying alphanumeric characters, particularly in motor vehicles. 4,654,652, 3-31-87, Cl. 340-756.000.

Certech Incorporated: *See—*
  Uram, Stuart Z., 4,671,498, Cl. 266-227.000.

Certified Technologies Corporation: *See—*
  Farnum, Bruce W., 4,702,861, Cl. 252-601.000.

Cerutti, Bernard: *See—*
  Roy, Jean-Claude; and Cerutti, Bernard, 4,644,397, Cl. 358-126.000.

Cerutti, Daniel D.: *See—*
  Brelsford, David P.; Cerutti, Daniel D.; Coleman, Leslie S.; Davison, Gerald A.; Dewey, Pamela H.; Enichen, Margaret C.; Hartley, Sarah T.; Malinowski, Paul A.; Rogers, Roger W.; Tallman, Peter H.; and Wilczak, Lynn A., 4,674,038, Cl. 364-200.000.

- Cervantes, Joe A., Jr.: *See—*
  - Bocking, Bruce; Cervantes, Joe A., Jr.; Green, Douglas H.; La Sota, Bruce W.; Marshall, David H.; Rodriguez, Bernard; and Van Gorden, Glen, 4,681,175, Cl. 175-393.000.
- Cervantes, Ramiro E., Sr. Automatically adjustable ladder support. 4,679,652, 7-14-87, Cl. 182-200.000.
- Cerveau, Genevieve E.: *See—*
  - Corriu, Robert J.; Cerveau, Genevieve E.; Chuit, Claude G.; and Reye, Catherine, 4,665,209, Cl. 556-474.000.
- Cerveira de Mello Ribeiro Pinto, Luiz A., to Santal Equipmentos S.A. Chopper harvesters for sugar cane and similar products. 4,702,423, 10-27-87, Cl. 241-60.000.
- Cervena, Irena: *See—*
  - Protiva, Miroslav; Jilek, Jiri; Cervena, Irena; Dlabac, Antonin; Valchar, Martin; and Pomykacek, Josef, 4,678,788, Cl. 514-254.000.
- Cesa, Mark C.; Rinz, James E.; and Kopp, Teodora T., to Standard Oil Company, The. Aryl oxime derivatives of hydantoins. 4,705,864, 11-10-87, Cl. 548-309.000.
- Cesa, Mark C.; and Burrington, James D., to Standard Oil Company, The. α-amino acids through catalytic reaction of CO and a hydroxyl compound with enamides. 4,710,574, 12-1-87, Cl. 548-533.000.
- Cesa, Mark C.: *See—*
  - Kung, Wei-Jen; Burrington, James D.; and Cesa, Mark C., 4,670,395, Cl. 435-280.000.
- Cesani, Enrico; and Forti, Andriano, to Telettra-Telefonia Elettronica e Radio S.p.A. Pluricavities microwave filter having cavities oriented in a sawtooth configuration. 4,677,402, 6-30-87, Cl. 333-203.000.
- Cesano, Franco, to G.O.R. Applicazioni Speciali S.p.A. Mold for the covering and trimming of products of plastics material. 4,692,108, 9-8-87, Cl. 425-292.000.
- Cesare, Frank C.: *See—*
  - Fithian, Luke E.; and Cesare, Frank C., 4,657,938, Cl. 521-96.000.
- Cesarini, Jean F.: *See—*
  - Billet, Daniel; and Cesarini, Jean F., 4,695,787, Cl. 32--557.000.
- Cesaro, Michael J.: *See—*
  - Pletcher, Gary; Henderson, Robert C.; Tiley, Robert; and Cesaro, Michael J., 4,658,491, Cl. 29-423.000.
- Cescon, Lawrence A.; Trebilcock, Robert W.; and Moffett, Robert H., to Du Pont de Nemours, E. I., and Company. Emulsion-containing explosive compositions. 4,714,503, 12-22-87, Cl. 149-21.000.
- Ceskoslovenska academie ved: *See—*
  - Sulc, Jiri ; Vondracek, Petr; and Lopour, Petr, 4,696,974, Cl. 525-92.000.
  - Tlustakova, Marie; Horak, Jiri; Vavrouch, Josef; Kulisek, Jiri; and Kalal, Jaroslav, 4,634,604, Cl. 427-213.330.
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  - Drobnik, Jaroslav; Noskova, Dagmar; Rypacek, Frantisek; Metalova, Marie; and Saudek, Vladimir, 4,659,849, Cl. 556-137.000.
  - Holy, Antonin; Rosenberg, Ivan; and Slama, Karel, 4,659,825, Cl. 544-244.000.
  - Hudecek, Slavko; Hudeckova, Iva; Otoupalova, Jaroslava; and Cefelin, Pavel, 4,656,236, Cl. 526-264.000.
  - Kolinsky, Miloslav; Jisova, Vaclava; and Babka, Josef, 4,690,989, Cl. 526-88.000.
  - Kristoufek, Jaroslav, 4,710,300, Cl. 210-603.000.
  - Krovak, Premysl; Behunek, Vladimir; Vojtisek, Vladimir; Salvet, Miroslav; and Hasal, Pavel, 4,683,062, Cl. 210-617.000.
  - Krovak, Premysl; and Salvet, Miroslav, 4,684,614, Cl. 435-316.000.
  - Neufuss, Karel; Macku, Ales; Forejt, Antonin; and Kasik, Pavel, 4,707,379, Cl. 427-34.000.
  - Porsch, Bedrich; Voslar, Jaroslav; and Rosol, Jaroslav, 4,692,243, Cl. 210-198.200.
  - Sorm, Miloslav; Vacha, Jiri; Ulbert, Karel; Jagos, Frantisek; Nespurek, Stanislav; Langpaul, Josef; Skalicky, Stanislav; Kensa, Jaromir; Zvonicek, Miroslav; and Drabek, Oldrich, 4,646,969, Cl. 239-106.000.
  - Tenygl, Jiri, 4,661,210, Cl. 204-1.00T.
  - Vitovec, Jaroslav; Cermak, Jan; and Smolik, Jiri, 4,696,683, Cl. 55-82.000.
  - Wichterle, Otto, 4,666,267, Cl. 351-160.00H.
- Ceskoslovenskla akademie ved: *See—*
  - Janouch, Vaclav; Hrudkova , Hana; and Cefelin, Pavel, 4,707,516, Cl. 525-60.000.
- Cesna, Joseph V., to Speedfam Corporation. Measuring bar for free abrasive machines. 4,693,012, 9-15-87, Cl. 33-533.000.
- Cessna Aircraft Company, The: *See—*
  - Buckman, William C.; and Tapp, Michael R., 4,642,028, Cl. 416-95.000.
  - Jackson, Alan C., 4,655,250, Cl. 137-596.130.
  - Marts, Maynard W.; and Mendoza, Michael F., 4,666,125, Cl. 251-129.190.
  - Voisard, Walter B., 4,648,798, Cl. 416-48.000.
  - Zongker, Dwight E., 4,709,618, Cl. 91-31.000.
- Cesta, Patrick P.: *See—*
  - Titti, Otello U.; Cesta, Patrick P.; Mitsopoulos, Thomas H.; and Wheeler, Alan G., 4,689,352, Cl. 521-88.000.
- Cestaro, Massimo; and Paudice, Ciro, to Societa Italiana Vetro-Siv-S.p.A. Apparatus for automatic measurement of stress in a transparent body by means of scattered light. 4,655,589, 4-7-87, Cl. 356-35.000.
- Cestero, Luis G. Piston reciprocating compressed air engine. 4,651,525, 3-24-87, Cl. 60-416.000.
- Cestero, Luis G. Device to convert piston-reciprocating internal combustion engines to compressed air motors. 4,715,181, 12-29-87, Cl. 60-412.000.
- Cetec AG: *See—*
  - Tinner, Friedrich, 4,669,701, Cl. 251-56.000.
- Cetenko, Wiaczeslaw A.: *See—*
  - Connor, David T.; Cetenko, Wiaczeslaw A.; Unangst, Paul C.; and Johnson, Elizabeth A., 4,703,053, Cl. 514-382.000.
- Cetinkaya, Ismail B.; and Myers, Daniel N., to UOP Inc. FCC combustion zone catalyst cooling apparatus. 4,710,357, 12-1-87, Cl. 422-144.000.
- Cetnar, James F.: *See—*
  - Bryant, Lynn A.; Roberts, Durward T., Jr.; Beckman, Joseph A.; Tazewell, Joseph H.; and Cetnar, James F., 4,684,420, Cl. 156-116.000.
- Cetrangolo, D. L. Stone turning apparatus with swing transfer. 4,699,564, 10-13-87, Cl. 414-765.000.
- Cetrone, Vincent. Composite electronic and fluid connector. 4,652,064, 3-24-87, Cl. 339-16.00R.
- Cetrone, Vincent B. Connecters for air and vacuum tubes and hoses. 4,650,222, 3-17-87, Cl. 285-137.100.
- Cetrone, Vincent B. Tubular overhead lighting system. 4,712,165, 12-8-87, Cl. 362-147.000.
- Cetus-Ben Venue Therapeutics: *See—*
  - Francis, Daniel L., 4,659,699, Cl. 514-53.000.
- Cetus Corporation: *See—*
  - Ben-Bassat, Arie; Dorin, Glenn; Bauer, Keith; and Lin, Leo, 4,656,132, Cl. 435-68.000.
  - Blakemore, Judith L.; Hanamoto, Mark S.; and Williams, Fred G., 4,648,529, Cl. 221-1.000.
  - Chang, Shing, 4,711,843, Cl. 435-68.000.
  - Chang, Shing, 4,711,844, Cl. 435-317.100.
  - Ferris, Robert, 4,689,401, Cl. 530-396.000.
  - Geigert, John; Liu, Te-Ning E.; and N'timkulu, Thabiso, 4,707,446, Cl. 435-132.000.
  - Gelfand, David H.; Chang, Shing; and Wong, Hing C., 4,666,848, Cl. 435-253.000.
  - Gelfand, David H.; and Lawyer, Frances C., 4,711,845, Cl. 435-68.000.
  - Hunter, Jennie C.; Belt, Angela; Sotos, Lynn S.; and Fonda, Michelle E., 4,707,447, Cl. 435-132.000.
  - Johnson, Larry J.; Coates, Stephen R.; and Loor, Rueyming, 4,681,742, Cl. 422-102.000.
  - Larrick, James W.; and Raubitschek, Andrew A., 4,677,070, Cl. 435-240.000.
  - Larrick, James W.; Ringold, Gordon M.; Mark, David F.; Lin, Leo S.; and Torti, Frank M., 4,684,623, Cl. 514-12.000.
  - Levenson, Corey H.; and Mullis, Kary B., 4,705,886, Cl. 560-159.000.
  - Lin, Leo S.; and Yamamoto, Ralph, 4,677,197, Cl. 530-417.000.
  - Loor, Rueyming; M'Timkulu, Thabiso; and DeWitt, Susanne K., 4,690,890, Cl. 435-7.000.
  - Loose, Joachim, 4,700,976, Cl. 283-101.000.
  - Mark, David F.; Wang, Alice M.; Ladner, Martha B.; Creasey, Abla A.; Lin, Leo S.; and Van Arsdell, Janelle, 4,677,063, Cl. 435-68.000.
  - Mark, David F.; Wang, Alice M.; Ladner, Martha B.; Creasey, Abla A.; Van Arsdell, Janelle N.; and Lin, Leo S., 4,677,064, Cl. 435-68.000.
  - Mullis, Kary B.; Erlich, Henry A.; Arnheim, Norman; Horn, Glenn T.; Saiki, Randall K.; and Scharf, Stephen J., 4,683,195, Cl. 435-6.000.
  - Mullis, Kary B., 4,683,202, Cl. 435-91.000.
  - Nunberg, Jack H., 4,701,416, Cl. 435-320.000.
  - Saiki, Randall K.; and Erlich, Henry A., 4,683,194, Cl. 435-6.000.
  - Shaked, Ze've; and Wolfe, Sidney N., 4,650,758, Cl. 435-105.000.
- Ceylan, Sukru , to O&K Orenstein & Koppel Aktiengesellschaft. Travelling hopper belt car. 4,694,948, 9-22-87, Cl. 198-311.000.
- Cezanne, Gunter: *See—*
  - Roemer, Erich; Schopf, Eckhart; and Cezanne, Gunter, 4,693,617, Cl. 384-282.000.
- CF Braun & Company: *See—*
  - Smart, Leonard G.; and Hui, Henry T., 4,709,886, Cl. 248-49.000.
- CF Industries, Inc.: *See—*
  - Davis, Charles E., 4,660,989, Cl. 366-331.000.
  - VanMeter, Charles, 4,662,055, Cl. 29-467.000.
- CFM Technologies Limited Partnership: *See—*
  - McConnell, Christopher F.; and Walter, Alan E., 4,633,893, Cl. 134-95.000.
- CGEE Alsthom: *See—*
  - Heng, Jean-Paul; Marmonier, Andre ; Ruiz, Ariel; and Guernet, Henri, 4,693,542, Cl. 439-626.000.
  - Heng, Jean-Paul; Marmonier, Andre ; and Briguet, Etienne, 4,704,659, Cl. 361-394.000.
  - Heng, Jean-Paul; Jusseau, Marcel; and Humbert-Labeaumaz, Alain, 4,712,863, Cl. 350-96.210.
- CGEE Alsthom Direction Red, Societe Anonyme: *See—*
  - Andrieux, Alain; Trequilly, Yves; and Lavoine, Jean-Claude, 4,692,841, Cl. 361-395.000.
- CGR/MEV: *See—*
  - Aucouturier, Jeanne; Leboutet, Hubert; and Pourre, Jean-Louis, 4,682,114, Cl. 328-67.000.
- CGR Ultrasonic: *See—*
  - Bele, Robert, 4,641,660, Cl. 128-660.000.
  - Lannuzel, Olivier, 4,680,739, Cl. 367-90.000.
  - Maerfeld, Charles, 4,694,700, Cl. 75-628.000.

Cha, Charles Y.; and Varsanik, Richard G., to Calgon Corporation. Carboxylic/sulfonic polymer and carboxylic/polyalkylene oxide polymer admixtures for use in iron oxide deposit control. 4,680,135, 7-14-87, Cl. 252-180.000.

Chaabouni, Mohamed: *See—*

Bonel, Gilbert; Heughebaert, Jean C.; Chaabouni, Mohamed; and Ayedi, Hassine. 4,692,323, Cl. 423-321.00R.

Chaback, Joseph J.: *See—*

Sheffield, Miller; Metcalfe, Robert S.; Calvin, James W.; and Chaback, Joseph J., 4,635,721, Cl. 166-268.000.

Chabagno, Jean-Michel: *See—*

Armand, Michel; Chabagno, Jean-Michel; Ricoux, Philippe; Vassort, Guy; Gauthier, Michel; Brochu, Fernand; and Rigaud, Philippe, 4,683,181, Cl. 429-192.000.

Chabala, John C.; Fisher, Michael H., and Patchett, Arthur A., to Merck & Co., Inc. 5-amino or substituted amino imidazoles useful to treat coccidiosis. 4,659,720, 4-21-87, Cl. 514-313.000.

habala, Leonard V., and Roman, Christopher D., to S&C Electric Company. Insulating support column with operating member. 4,654,489, 3-31-87, Cl. 200-48.00R.

habala, Leonard V.; Haarsma, John; O'Leary, Raymond P.; Roman, Christopher D.; and Tobin, Thomas J., to S&C Electric Company. Insulating material and use thereof in insulators. 4,690,780, 9-1-87, Cl. 252-572.000.

habala, Leonard V.: *See—*

Swanson, Roy T.; Chabala, Leonard V.; and Jackson, Hiram S., 4,692,734, Cl. 337-162.000.

haban, Richard J., to Warner Lambert Technologies, Inc. Microscope autofocus system. 4,687,913, 8-18-87, Cl. 250-201.000.

habanier, Patrick: *See—*

Baluteau, Jean-Michel; Saint-Sevin, Michel, and Chabanier, Patrick, 4,637,692, Cl. 350-486.000.

habardes, Pierre; and Mulhauser, Michel, to Rhone-Poulenc Sante. Tocopherol derivatives useful in the synthesis of vitamin E and their preparation. 4,636,570, 1-13-87, Cl. 549-408.000.

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abardes, Pierre: *See—*

Mignani, Gerard; Morel, Didier; and Chabardes, Pierre, 4,634,778, Cl. 549-80.000.

abat-Courrede, Jean: *See—*

Boissier, Andre; Chabat-Courrede, Jean; and Decaudin, Michel, 4,707,002, Cl. 285-334.200.

abbal, Jean: *See—*

Boucharlat, Gilles; and Chabbal, Jean, 4,654,713, Cl. 358-213.000.

abbal, Jean J., to Thomson-CSF. Multilinear charge transfer array and analysis process. 4,694,316, 9-15-87, Cl. 357-24.000.

abert, Pierre; and Tholome, Roger, to Sames S.A. Electrostatic painting apparatus. 4,660,771, 4-28-87, Cl. 239-694.000.

abner, Bruce A.: *See—*

Allegra, Carmen; Drake, James C.; Chabner, Bruce A.; Masur, Henry; and Kovacs, Joseph A., 4,694,007, Cl. 514-260.000.

aborski, Hoiko: *See—*

Bolkow, Ludwig; Mehnert, Walter; and Chaborski, Hoiko, 4,699,508, Cl. 356-5.000.

abot, Leo L., to Ellison, Pioneer Division. Detachable bifurcated center brace loom harness. 4,635,685, 1-13-87, Cl. 139-91.000.

abot, Luc G.: *See—*

Petty, Terry D.; Costello, Carmon R.; Song, Kun K.; Chabot, Luc G.; Fujita, Tadahiro; Hirose, Haruki; and Yoshimura, Nobutoshi, 4,639,167, Cl. 405-217.000.

abria, Paul R., to Press-A-Lite Corporation. Miniature flashlight with solderless connections. 4,644,451, 2-17-87, Cl. 362-189.000.

abrier, Patrick: *See—*

Bernard, Jean-Claude; Chabrier, Patrick; Tahon, Bernard; Tesoniere, Jean-Marc; and Ortega, Domingo, 4,639,929, Cl. 373-120.000.

abries, Douglas M.; Christiansen, Richard W.; Lynn, Douglas; and Kenworthy, Gary, to Antin, Harold; and Antin, Mark. Adaptive noise suppressor. 4,658,426, 4-14-87, Cl. 381-94.000.

abrol, Jean-Jacques; and Lambert, Jean-Pierre, to Composites Aquitaine S.A.; and Etablissements Poirier S.A. Armchair, particularly for handicapped persons, equipped with a device for rapidly locking the foot rest. 4,678,233, 7-7-87, Cl. 297-429.000.

ace, Mark S.: *See—*

Sachdev, Krishna G.; Kwong, Ranee W.; Gupta, Mani R.; Chace, Mark S.; and Sachdev, Harbans S., 4,692,205, Cl. 156-643.000.

acko, Varkki P.; DeStio, Paul; and Baum, Gerald A., to Celanese Engineering Resins Inc. Modified polyester compositions. 4,677,150, 30-87, Cl. 524-449.000.

acko, Varkki P.; and Baum, Gerald A., to Celanese Engineering esins, Inc. High temperature resistant polyester compositions. 689,365, 8-25-87, Cl. 524-539.000.

comas, Peter C., to Black & Decker Inc. Saw blade and tip therefor. 690,024, 9-1-87, Cl. 83-852.000.

czyk, Adam W.: *See—*

Lichtenberg, Norman B.; and Chaczyk, Adam W., 4,694,706, Cl. 74-501.50R.

dwick, Curt H.; Shulenberger, Art M.; Taylor, John S.; and Simons, Richard R., to KLA Instruments Corporation. Automatic cusing system for a microscope. 4,639,587, 1-27-87, Cl. 250-201.000.

dwick, Curt H.; and Desai, Anil A., to KLA Instruments Corporation. Rotational and focusing apparatus for turret mounted lenses. 647,764, 3-3-87, Cl. 250-216.000.

Chadwick, Dennis, to Urban Transportation Development Corporation, Ltd. Open top draw bar arrangement having removable wedge. 4,700,854, 10-20-87, Cl. 213-62.00R.

Chadwick, John C.; and v. d. Sar, Jacob C., to Shell Oil Company. Preparation of spherical magnesium alkoxide particles. 4,663,299, 5-5-87, Cl. 502-9.000.

Chadwick, John R.; and Moody, Brian R., to Integrated Laser Systems Limited. Manipulator with four mirrors. 4,659,192, 4-21-87, Cl. 350-486.000.

Chadwick, P. N. R.: *See—*

Schlenk, Manfred; and Chadwick, P. N. R., 4,694,193, Cl. 307-62.000.

Chadwick, Philip, to Canadian General Electric Company Limited. Varistor overvoltage protection system with temperature systems. 4,636,910, 1-13-87, Cl. 361-103.000.

Chafetz, Harry. *See—*

Sawicki, Robert A.; and Chafetz, Harry, 4,689,422, Cl. 558-277.000.

Chafetz, Lester; and Philip, Jose, to Warner-Lambert Co. Furosemide salts and pharmaceutical preparations thereof. 4,663,348, 5-5-87, Cl. 514-471.000.

Chaffee, Edwin G., Holtman, Steve; Nelson, George A.; and Tanner, Howard M. C., to HGM, Incorporated. Laser optical delivery apparatus. 4,633,872, 1-6-87, Cl. 128-303.100.

Chaffee, Roger G.; and Stebleton, Leo F., to Dow Corning Corporation. Method of adjusting physical properties in silicone elastomeric sealant. 4,687,829, 8-18-87, Cl. 528-17.000.

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Chaglassian, Toros A., to Memorial Hospital for Cancer and Allied Diseases. Multi-lumen high profile mammary implant. 4,650,487, 3-17-87, Cl. 623-8.000.

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Chaiet, Louis; Zimmerman, Sheldon B.; Monaghan, Richard L.; and Martin, Maria L., to Merck & Co., Inc. R-(Z)-4-amino-3-chloro-2-pentenedioic acid, novel antibacterial agent. 4,670,466, 6-2-87, Cl. 514-547.000.

Chaiko, Walter M. Suspension means for a mooring line. 4,676,182, 6-30-87, Cl. 114-230.000.

Chailleux, Georges, to Cedegur Societe De Transformation De L'Aluminum Pechiney. Members for load-carrying spatial structure. 4,674,256, 6-23-87, Cl. 52-648.000.

Chaillou, Daniel: *See—*

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Chaimowicz, Jean-Claude A., to National Research Development Corporation. Optical displacement sensors. 4,711,578, 12-8-87, Cl. 356-375.000.

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Chaitin, Gregory J.; Hopkins, Martin E.; Markstein, Peter W.; and Warren, Henry S., Jr., to International Business Machines Corporation. Generating storage reference instructions in an optimizing compiler. 4,656,582, 4-7-87, Cl. 364-300.000.

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Chaix, Jean-Edmond; and Metteey, Michel, to Commissariat a l'Energie Atomique. Joining means between two pipes having retractable bearing members. 4,640,537, 2-3-87, Cl. 285-368.000.

Chak, Maryan and Dobruskin, Moisey. Device for silverizing running water. 4,710,282, 12-1-87, Cl. 204-229.000.

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English, George J., and Chakrabarti, Kirti B., 4,642,114, Cl. 315-111.000.

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Jada, Robert H.; Crawford, Roger A.; and Chakrabarti, Paritosh M., 4,693,894, Cl. 424-150.000.

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Chalco Engineering Corporation: See—

Mitchell, William D., 4,700,814, Cl. 188-67.000.

Chalet, Alain R. G., to ITT Corporation. Communication system. 4,638,474, 1-20-87, Cl. 370-60.000.

Chalfant, Robert D.: See—

Gradinger, J. Gary; Quearry, Robert W.; Chalfant, Robert D.; and Wilson, Charles G., 4,644,741, Cl. 57-256.000.

Chaffin, Edward, to Sprague Electric Company. Circuit for protecting a power transistor against a short-circuited load. 4,691,262, 9-1-87, Cl. 361-56.000.

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Chalimbaud, Max, to Societe Industrielle Pecquet, Tesson. Tube plates for heat exchangers. 4,706,743, 11-17-87, Cl. 165-134.100.

Chalke, Brian J., to Lucas Industries Public Limited Company. Electric starting aid for an internal combustion engine. 4,641,612, 2-10-87, Cl. 123-145.00A.

Chaliand, Ian, to Fabriques de Tabac Reunies, S.A. Hinged lid pack with lid opening arrangement. 4,646,960, 3-3-87, Cl. 229-44.0CB.

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Challenge-Cook Brothers, Inc.: See—

Gould, Bruce M., 4,657,771, Cl. 426-641.000.

Challenger Industries, Ltd.: See—

Torigian, Puzant C., 4,700,727, Cl. 131-369.000.

Chalmers, Edward L. Athletic boot. 4,654,985, 4-7-87, Cl. 36-50.000.

Chalmers, Wallace G. Tandem axle air suspension. 4,687,222, 8-18-87, Cl. 280-678.000.

Chalupnik, Rolf: See—

Langhoff, Josef; Krischke, Hermann; Geldmacher, Horst; Golomb, Manfred; Kamp, Karl-Heinz; Mausch, Peter; and Chalupnik, Rolf, 4,715,809, Cl. 431-170.000.

Chamaret, Solange: See—

Montagnier, Luc; Chermann, Jean-Claude; Barre-Sinoussi, Francoise; Brun-Vezinet, Francoise; Rouzioux, Christine; Rozenbaum, Willy; Dauguet, Charles; Gruest, Jacqueline; Nugeyre, Marie-Therese; Rey, Francoise; Axler-Blin, Claudine; Chamaret, Solange; Gallo, Robert C.; Popovic, Mikulas; and Sarngadharan, Mangalasseril G., 4,708,818, Cl. 435-5.000.

Chamberlain, Donald L., to Freeport Minerals Company. Tilting pan filters. 4,675,107, 6-23-87, Cl. 210-332.000.

Chamberlain, John: See—

Zimmerman, Bernd, and Chamberlain, John, 4,695,128, Cl. 350-96.230.

Chamberlain, Joseph G. Nonpolluting, high efficiency firebox for wood burning stove. 4,643,165, 2-17-87, Cl. 126-77.000.

Chamberlain Manufacturing Corporation: See—

Budininkas, Pranas, and Singh, Philip A., 4,656,831, Cl. 60-297.000.

Iha, Kiyoshi, and Henry, Susanne, 4,653,565, Cl. 160-193.000.

Krishnakumar, C. K., and Schafer, Clyde K., 4,678,116, Cl. 236-25.00A.

Schindler, Wayne R., 4,638,433, Cl. 364-400.000.

Willmott, Colin B.; Hentschel, Carl T.; and Wojciak, Bernard J., Jr., 4,716,301, Cl. 307-115.000.

Chamberlain, Michael R.: See—

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Chamberlain, Savvas G.: See—

Schlig, Eugene S., and Chamberlain, Savvas G., 4,639,678, Cl. 324-457.000.

Chamberlain, Stephen S., to Pratt & Whitney Canada Inc. Impeller shroud. 4,687,412, 8-18-87, Cl. 415-134.000.

Chamberlain, Thomas E.: See—

Couchey, John W., and Chamberlain, Thomas E., 4,670,1[illegible], C 33-203.130.

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Stacy, Carl W., and Chamberlain, William, 4,716,46[illegible], C 158-190.000.

Chamberland, Roger R., and Siamand, Andrew J., to United States of America, Navy. High frequency, hermetic, coaxial connector for flexible cable. 4,690,482, 9-1-87, Cl. 439-578.000.

Chamberlin, Edward B.; Brown, Edward M.; and Towns, Edward L., to Carry-All, Inc. Fluid medium compressor and user apparatus. 4,697,993, 10-6-87, Cl. 417-514.000.

Chamberlin, Frederick C.; Whynacht, Charles; Carter, Peter D.; and Wilson, Charles S., to Carrier Corp. Remote subsystem. 4,703,3[illegible], 10-27-87, Cl. 340-825.170.

Chamberlin, James C. Electrical junction box with manipulatable out 4,715,507, 12-29-87, Cl. 220-3.940.

Chamberlin, James W.: See—

Gray, James S.; Chamberlin, James W.; McBride, Alan L.; and Schreiner, Peter G., III, 4,660,196, Cl. 370-109.000.

Chamberlin, John M.; Chivers, Edward W., Jr.; Nunning, Walter J.; and Southern, John H., to Monsanto Company. Partially oriente nylon yarn and process. 4,646,514, 3-3-87, Cl. 57-288.000.

Chambers, Bruce C., to Nalco Chemical Company. Alumina stabilization in industrial waters. 4,661,261, 4-28-87, Cl. 210-698.000.

Chambers, David H. Leg cast cover. 4,646,727, 3-3-87, Cl. 128-82.00

Chambers, David L.: See—

Dixon, Glen A.; McCloskey, Clark E.; Chambers, David L.; Hawk, Woodrow D.; and McCracken, Oliver W., 4,633,954, C 166-372.000.

Dixon, Glenn A.; McCloskey, Clark E.; Chambers, David L.; Hawk, Woodrow D.; and McCracken, Oliver W., 4,685,522, C 166-372.000.

Chambers, Francis T. Robotic hand with slip couplings. 4,71[illegible], 12-29-87, Cl. 294-88.000.

Chambers, Frank A., to Standard Oil Company (Indiana). Apparatus and method for heating materials with a laser heat source. 4,672,[illegible] 6-9-87, Cl. 219-121.00L.

Chambers, George: See—

Hall, Kenneth F., and Chambers, George, 4,635,887, C 248-179.000.

Chambers, Gregory R.: See—

Bates, Gary M.; Chambers, Gregory R.; and Ting, Sally, 4,681,915, Cl. 525-148.000.

Chambers, Jeffrey, to Oxley Developments Company Limited. Feed-through filter having an insulated bush for mounting filter in a bulkhead. 4,642,589, 2-10-87, Cl. 333-182.000.

Chambers, Jeffrey, and Oxley, Robert F. Electrical connector. 4,674,815, 6-23-87, Cl. 439-592.000.

Chambers, Joseph W., Sr., and Nona, Jerry R., to Disposable Waste Systems, Inc. Solid waste comminutor with slotted side rails and si rails for same. 4,702,422, 10-27-87, Cl. 241-46.060.

Chambers, Keith W., and Waggoner, Clinton A., to Canada, Her Majesty the Queen in right of, as represented by the Minister of National Defence. Method and apparatus for on-line monitoring of wear in machinery. 4,651,091, 3-17-87, Cl. 324-204.000.

Chambers, Michael F.: See—

Murphy, James E., and Chambers, Michael F., 4,707,2[illegible], C 204-247.000.

Chambers, Pauline B.; Bedder, Stephen W.; and Akers, Paul J., to Courtaulds PLC. Polymer compositions. 4,680,335, 7-14-87, C 524-501.000.

Chambers, Robert K.: See—

Al-Shaar, Adnan H.; Broughton, Barbara J.; Chambers, Robert K.; Gilmour, David W.; Kelsey, Diane M.; Lowden, Peter Ian Edward; Lythgoe, David J.; McClenaghan, Ian; McDougall, Duncan C.; Saunders, Libert C.; Stuttle, Keith A. J.; and Ward, Peter J., 4,659,727, Cl. 514-370.000.

Chambers, Robert W., to RCA Corporation. System for transferring and locating a body relative to a support. 4,706,796, 11-17-87, C 198-345.000.

Chambers, Robert W.: See—

Draft, Howard J., and Chambers, Robert W., 4,689,835, C 2-424.000.

Chambers, Sam W.; Spencer, Charles R.; and Miller, Wade E., to Morrison-Knudsen Company, Inc. Ceiling panel placing machine. 4,682,926, 7-28-87, Cl. 414-11.000.

Chambers, Samuel C.: See—

Sabroff, Alvin M.; Chambers, Samuel C.; and Ream, James C., 4,709,569, Cl. 72-340.000.

Chambersburg Engineering Company: See—

Crout, Charles J.; Frame, Charles W.; and Harris, Ronald S., 4,653,300, Cl. 72-8.000.

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Chamblee, Henry F. Snap ring tool. 4,689,865, 9-1-87, Cl. 29-229.00

Chambon, Jean-Pierre: See—

Wermuth, Camille G., and Chambon, Jean-Pierre, 4,710,49[illegible], C 514-247.000.

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Sokolik, Edmund L.; and Chambors, John M., 4,647,994, Cl.
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Regionale d'Agriculture de Picardie: *See*—

d, Emile; and Monceaux, Philippe, 4,636,390, Cl. 426-18.000.

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guidance for an examination panel. 4,700,938, 10-20-87, Cl.
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s, Leland D.: *See*—

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4-152.000.

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4,655,449, 4-7-87, Cl. 273-73.00J.

David M., to United Foam Plastics Corp. Packing brace with
king members. 4,700,832, 10-20-87, Cl. 206-320.000.

Robert B.; and Vollmer, Robert L., to International Business
es Corporation. Squarylium charge generating dye and elec-
tographic photoconductor. 4,677,045, 6-30-87, Cl. 430-76.000.

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re, Serge; and Champagne, Blaise, 4,673,550, Cl. 419-12.000.

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Inc. Starter bracket for installing aluminum siding. 4,646,501,
Cl. 52-520.000.

e, Michel R., to Genfoot, Inc. Method of waterproofing an
of footwear and the waterproofed article produced therefrom.
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e Moet & Chandon: *See*—

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4,676,475, Cl. 249-105.000.

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700,345, 10-13-87, Cl. 370-[illegible].000.

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analog signal into a pulse signal. 4,710,748, 12-1-87, Cl. 340-
D.

International Corporation: *See*—

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James W., 4,708,790, Cl. 210-87.000.

holdt, Irving R., 4,648,712, Cl. 356-73.000.

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Eugenia; Wilson, Frank; and Woyak, Mark, 4,699,020, Cl.
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Raymond J., 4,712,739, Cl. 239-290.000.

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Ronnie W.; and Ameling, Dale P., 4,684,352, Cl. 445-7.000.

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Dirk A., 4,703,668, Cl. 74-479.000.

ak, Richard S., 4,695,759, Cl. 313-136.000.

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teau, Christian, 4,649,592, Cl. 15-250.360.

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nical compression packing. 4,672,879, 6-16-87, Cl. 87-7.000.

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D., to FMC Corporation. Synchronous/asynchronous com-
ation system. 4,665,518, 5-12-87, Cl. 370-89.000.

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er, Alan C.; and Chamran, Morteza M., deceased, 4,679,162,
364-571.000.

n, Delories M., legal representative: *See*—

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-Elmer Corporation, The. Analog-to-digital converter having
mmable dynamic range. 4,644,323, 2-17-87, Cl. 340-347.0NT.

Chamran, Morteza M., deceased: *See*—

Ferber, Alan C.; and Chamran, Morteza M., deceased, 4,643,571, Cl. 356-326.000.

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Chamuel, Jacques R., to Charles Stark Draper Laboratory, Inc., The. Noise reducing heat sink for semiconductor laser diodes. 4,688,076, 8-18-87, Cl. 357-81.000.

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Chan, Aaron: *See*—

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Chan, Albert; Fitzpatrick, Mark; Goddard, Don; Bosnyak, Robert J.; and Tsui, Cyrus, to Monolithic Memories, Inc. Short detector for PROMS. 4,701,695, 10-20-87, Cl. 324-510.000.

Chan, Albert: *See*—

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Tsui, Cyrus; Chan, Andrew K. L.; Chan, Albert; Fitzpatrick, Mark E.; Ansari, Zahid; and Hughes, Harry, 4,684,830, Cl. 307-465.000.

Chan, Albert S. C., to Monsanto Company. Pyrophosphate coating process for calcium carbonate dental abrasives. 4,678,662, 7-7-87, Cl. 424-57.000.

Chan, Alexander Guy. Folding chairs. 4,652,047, 3-24-87, Cl. 297-45.000.

Chan, Andrew K., to Monolithic Memories, Inc. Short detector for fusible link array using single reference fuse. 4,638,243, 1-20-87, Cl. 324-51.000.

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Watson, John C.; and Chan, Bing G., 4,661,881, Cl. 361-104.000.

Chan, C. S., and Hay, Robert R., to Hewlett-Packard Company. Barrier layer and orifice plate for thermal ink jet printhead assembly. 4,694,308, 9-15-87, Cl. 346-140.00R.

Chan, C. S., and Hay, Robert R., to Hewlett-Packard Company. Barrier layer and orifice plate for thermal ink jet print head assembly and method of manufacture. 4,716,423, 12-29-87, Cl. 346-140.00R.

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Chan, Daniel F., to TRW Inc. Reference current generator circuit. 4,684,880, 8-4-87, Cl. 323-316.000.

Chan, David C. K., to Chevron Research Company. Herbicidal N-oxadiazolylmethyl-, N-thiadiazolylmethyl-, and N-triazolylmethyl-substituted alpha-haloacetamide. 4,648,897, 3-10-87, Cl. 71-90.000.

Chan, David C. K.: *See*—

Moore, Joseph E.; Yang, Yuh-Lin; Griffith, Robert K.; and Chan, David C. K., 4,652,556, Cl. 514-155.000.

Chan, David M. F.; and Chan, Michael L. F. Variable shape structure. 4,664,282, 5-12-87, Cl. 220-4.00C.

Chan, Fred N. T.: *See*—

Kamel, Ahmed A.; Graul, Donald W.; Chan, Fred N. T.; and Gamble, Donald W., 4,688,091, Cl. 358-109.000.

Chan, Hak-Foon, to Rohm and Haas Company. Substituted azxylmethylarylsulfides and derivatives and pesticidal use thereof. 4,675,316, 6-23-87, Cl. 514-184.000.

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Kay, Robert E.; Chan, Hakchill; Ju, Fred; and Bray, Burton A., 4,648,917, Cl. 148-175.000.

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  Tantram, Anthony D. S.; and Chan, Yat S., 4,633,704, Cl. 73-23.000.

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Chana, Howard E., to General Motors Corporation. Hydraulic control system including a torque sensor. 4,672,862, 6-16-87, Cl. 74-843.000.

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Chandran, Srikumar R.; and Walker, Mark S., to Tandem Compu Incorporated. Self-checking, dual railed, leading edge synchroniz 4,700,346, 10-13-87, Cl. 371-1.000.

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  Bauman, Robert E.; Chandrasekaran, S. Kumar; Lin, Shaow B. Bowman, Lyle M.; and Harvey, Thomas B., III, 4,666,249, C 351-160.00H.
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ng, Benny, to Quadic Systems, Inc. Compensated bias generator ltage source for ECL circuits. 4,644,249, 2-17-87, Cl. 323-223.000.

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ng, Chang, to Virco Mfg. Corporation. Safety hinge. 4,710,049, -1-87, Cl. 403-23.000.

ng, Che-Yuan. Modified fixing means for comb bristles. 4,635,658, 13-87, Cl. 132-85.000.

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Chang, Daniel M.; and Wiersema, Richard J., to Clorox Company, The. Bleach composition containing controlled density capsules. 4,708,816, 11-24-87, Cl. 252-186.250.

Chang, Donald C. D.; and Ha, Eng-Chong, to Hughes Aircraft Company. Adaptive antenna. 4,635,063, 1-6-87, Cl. 342-380.000.

Chang, Donald C. D.; and Wong, Mon N., to Hughes Aircraft Company. Wideband short slot hybrid coupler. 4,686,493, 8-11-87, Cl. 333-113.000.

Chang, Eddie L., to United States of America, Navy. Magnetically-localizable, polymerized lipid vesicles and method of disrupting same. 4,652,257, 3-24-87, Cl. 604-52.000.

Chang, Elfreda T.: *See*—

Mahadevan, Parameswar; Chang, Elfreda T.; and Breisacher, Peter, 4,657,639, Cl. 202-182.000.

Chang, George W. Y., to Westinghouse Electric Corp. Single-ended steam chest with improved support assembly. 4,637,214, 1-20-87, Cl. 60-687.000.

Chang, Hong-Tsuan. Automatic container-filling apparatus. 4,693,285, 9-15-87, Cl. 141-71.000.

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Chang, Jaw-Kang: *See*—

Hosobuchi, Yoshio; Lee, Nancy M.; Loh, Horace H.; and Chang, Jaw-Kang, 4,684,624, Cl. 514-15.000.

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McGregor, William H.; and Chang, Joseph Y., 4,710,580, Cl. 558-86.000.

Chang, Jun H., to FMC Corporation. Herbicidal isoxazolidinone derivatives. 4,692,182, 9-8-87, Cl. 71-88.000.

Chang, Kai: *See*—

Grote, Albert J.; Tahim, Raghbir S.; and Chang, Kai, 4,641,369, Cl. 455-327.000.

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Chang, King-chane. Automatic shut-off device for fuel dispenser. 4,709,735, 12-1-87, Cl. 141-209.000.

Chang, Kok W.: *See*—

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Chang, Kun H. Method of producing high-density PU foam material. 4,666,646, 5-19-87, Cl. 264-109.000.

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Chang, Leroy L.: *See—*

Esaki, Leo; Chang, Leroy L.; and Wang, Wen-I, 4,665,415, Cl. 357-22.000.

Chang, Long F., and Steele, Scott W., to Owen-Illinois Plastic Products Inc. Oriented plastic container. 4,715,504, 12-29-87, Cl. 215-1.00C.

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Chang, Mike S. H.: *See—*

Sansone, Ronald P.; Cruz-Uribe, Antonio S.; and Chang, Mike S. H., 4,673,303, Cl. 400-126.000.

Chang, Mine K. Joint apparatus of speedometer shaft. 4,647,242, 3-3-87, Cl. 403-21.000.

Chang, Ming C. Rubbish treating apparatus. 4,667,608, 5-26-87, Cl. 110-215.000.

Chang, Ming J. Fluorescent lamp lighting circuit. 4,700,112, 10-13-87, Cl. 315-205.000.

Chang, Ming Y. Underwater tunnel construction. 4,657,435, 4-14-87, Cl. 405-136.000.

Chang, Nelson: *See—*

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Chang, Paul S.; and Dowling, Edward C., to AMP Incorporated. Time-slot addressed, system keyed multiplex device. 4,682,168, 7-21-87, Cl. 340-825.650.

Chang, Pei K.: *See—*

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Charbonneau, Arthur G.; Godfrey, Dwaine A.; McNennamy, John A. and Nafziger, Steven, to Charbonneau & Godfrey Associates. Mo operated valve analysis and testing system. 4,712,071, 12-8-87, C 324-415.000.

Charbonneau, Arthur G.: *See—*

McNennamy, John A.; Nafziger, Steven; Charbonneau, Arthur G and Godfrey, Dwaine A., 4,693,113, Cl. 73-168.000.

Charbonneau and Godfrey Associates: *See—*

Charbonneau, Arthur G.; McMennamy, John A.; and Nafzige Steven, 4,660,416, Cl. 73-168.000.

Charbonneau, Arthur G.; Godfrey, Dwaine A.; McNennamy, Jo A.; and Nafziger, Steven, 4,712,071, Cl. 324-415.000.

McNennamy, John A.; and Nafziger, Steven, 4,690,003, C 73-862.320.

McNennamy, John A.; Nafziger, Steven; Charbonneau, Arthur G and Godfrey, Dwaine A., 4,693,113, Cl. 73-168.000.

Charbonneau, Jack W., to Minnesota Mining and Manufacturing Co pany. Pad fragrance sampling device. 4,661,388, 4-28-87, C 428-43.000.

Charbonneau, Robert R.; Heilmann, Steven M.; Rasmussen, Jerald K and Tumey, Michael L., to Minnesota Mining and Manufacturin Company. Azlactone-containing pressure-sensitive adhesiv 4,699,843, 10-13-87, Cl. 428-355.000.

Charbonnier, Roger; and Remy, Joel, to Adret Electronique. Quate nary frequency synthesizer. 4,636,733, 1-13-87, Cl. 328-14.000.

Charbonnier, Roger, to Adret Electronique. Doubly balanced diod mixer comprising a ring modulator each leg of which comprises high speed conventional diode in series with at least one diode of th "varactor" kind. 4,637,069, 1-13-87, Cl. 455-330.000.

Charbonnier, Roger: *See—*

Remy, Joel; and Charbonnier, Roger, 4,682,122, Cl. 331-2.000.

Charbrol, Jean-Jacques; and Lambert, Jean-Pierre, to Composite Aquitaine S.A.; and Etablissments Poirier S.A. Folding chair com prising quick unlocking means. 4,712,830, 12-15-87, Cl. 297-42.000.

Charchian, Loris J.: *See—*

Shea, Dennis W.; Hart, Albert A.; and Charchian, Loris J., 4,667,767, Cl. 180-247.000.

Charcoal Cloth Ltd.: *See—*

Juhasz, Laszlo; and McLeod, Angus I., 4,715,857, Cl. 604-359.00

Maggs, Frederick A. P., 4,657,808, Cl. 428-263.000.

Chard, Brian C.; Hooper, John D.; and Bale, Christopher R., to impe rial Group Public Limited Company. Forming a rod of smokabl material. 4,696,311, 9-29-87, Cl. 131-109.100.

Chardon, Georges; and Chomienne, Andre, to Faure Roux. Wove straps with transverse contractions. 4,640,317, 2-3-87, C 139-431.000.

Chardon, Manfred: *See—*

Gilljam, Hans N.; Chardon, Manfred; Gebald, Gregor; and Illi Heinz-Peter, 4,702,433, Cl. 242-118.100.

Chardonol, Division of Freeman Corporation: *See—*

Altenberg, Milton J.; and deJong, Johannes, 4,701,477, C 521-167.000.

Chareire, Jean-Louis, to Societe Nationale Industrielle et Aerospatial Quick connect system for connecting a blood vessel and a cardi prosthesis. 4,650,486, 3-17-87, Cl. 623-3.000.

Charen, Grace M.: *See—*

Gulette, Ronald S.; and Charen, Grace M., 4,711,483, Cl. 29 97.00C.

Charet, Pierre: *See—*

Piot, Jean-Marie; Guillochon, Didier; Charet, Pierre; and Thomas Daniel, 4,650,589, Cl. 210-691.000.

Chargo, Peter; and Chargo, Todd M. Waterfowl decoy. 4,674,21 6-23-87, Cl. 43-3.000.

Chargo, Todd M.: *See—*

Chargo, Peter; and Chargo, Todd M., 4,674,219, Cl. 43-3.000.

Chari, Madabushi V.; Kalafala, Ahmed K.; D'Angelo, John; and Palm Michael A., Jr., to General Electric Company. Aperture sized di shaped end caps of a ferromagnetic shield for magnetic resonance magnets. 4,646,045, 2-24-87, Cl. 335-301.000.

ari, Madabushi V.: *See—*
Laskaris, Evangelos T.; and Chari, Madabushi V., 4,660,013, Cl 335-299.000.
arlebois, Leonard J.; Scott, James R.; and D'Aoust, Ronald R., to
Northern Telecom Limited. Forming of cable splice closures
,654,474, 3-31-87, Cl. 174-88.00R.
arlebois, Leonard J.; Brown, Allan P.; and Kho, James K., to North-
rn Telecom Limited. Manufacture of sealing closures for a telecom-
unications cable splice. 4,670,980, 6-9-87, Cl. 29-869.000.
arlebois, Leonard J., to Northern Telecom Limited. Forming of
able splice closures. 4,678,866, 7-7-87, Cl. 174-88.00R.
ois, Leonard J.: *See—*
Brow Allan P.; and Charlebois, Leonard J., 4,648,606, Cl. 277-188.00R.
s. A. Blatchford & Sons Limited: *See—*
Shorter, John J.; and Early, Stanley T., 4,645,508, Cl. 623-48.000.
rles Beseler Company: *See—*
Uchin, Stanley, 4,649,973, Cl. 150-52.00J.
rles C. Lucas. Gun rack. 4,682,720, 7-28-87, Cl. 224-311.000.
rles C. Worth Corporation: *See—*
Young, John N., 4,645,137, Cl. 242-84.50A.
rles D. Ray, Ltd.: *See—*
Ray, Charles D., 4,657,002, Cl. 128-92.00V.
Ray, Charles D., and Steller, Richard G., 4,662,619, Cl 269-328.000.
rles, Gilbert; Assadoullah, Assad; and Bernet, Jean-Marie, to Com
issariat a l'Energie Atomique. High-resolution electronic chronom-
try system. 4,637,733, 1-20-87, Cl. 368-120.000.
rles Griener and Company, Inc.: *See—*
Calabrese, Anthony, 4,677,969, Cl. 128-75.000.
rles, Harry R.: *See—*
Miles, Donald L.; and Charles, Harry R., 4,699,730, Cl 252-181.000.
rles, Jean-Michel: *See—*
Gibot, Claude; and Charles, Jean-Michel, 4,707,951, Cl. 51-410.000.
rles, John M.: *See—*
Reader, Michael W.; and Charles, John M., 4,669,287, Cl 70-360.000.
rles, Kirk W.: *See—*
Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., 4,652,115, Cl. 355-14.0TR.
Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., 4,697,920, Cl. 355-14.0CH.
Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., 4,699,079, Cl. 118-658.000.
Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., 4,705,385, Cl. 355-4.000.
rles of the Ritz Group Ltd.: *See—*
Deckner, George E., 4,690,815, Cl. 424-9.000.
Puchalski, Eugene, Jr.; Schneider, Emil F.; Cohee, Judith A.; and El-Menshawy, El-Sayed. 4,690,818, Cl. 424-70.000.
rles, Richard J.; Mitoff, Stephan P.; and Pasco, Wayne D., to
eneral Electric Company. Secondary metallization by glass dis-
lacement in ceramic substrate. 4,684,446, 8-4-87, Cl. 204-15.000.
rles Ross & Son Company: *See—*
Muller, Warren E., 4,697,929, Cl. 366-97.000.
rles Stark Draper Laboratory, Inc., The: *See—*
Bernardon, Edward, 4,651,659, Cl. 112-121.110.
Bowditch, Philip N., 4,675,253, Cl. 428-542.800.
Boxenhorn, Burton, 4,699,006, Cl. 73-517.0AV.
Chamuel, Jacques R., 4,688,076, Cl. 357-81.000.
Chamuel, Jacques R., 4,706,021, Cl. 324-242.000.
Coate, Godfrey T.; and Coccoli, Joseph D., 4,678,334, Cl 356-350.000.
Dawson, Thomas F.; and Ewing, Paul C., Jr., 4,648,211, Cl. 51-165.00R.
Dawson, Thomas F.; Ewing, Paul C., Jr.; Dafnoulelis, Christos V.; and Martin, Jacob H., 4,648,212, Cl. 51-165.00R.
Downer, James R.; Eisenhaure, David B.; Oberbeck, George; Bliamptis, Tim E.; and Hendrie, Susan D., 4,700,094, Cl 310-90.500.
Fyler, Donald C., 4,712,971, Cl. 414-744.00R.
Garcia, Gustavo E.; and Gold, David, 4,672,347, Cl. 336-132.000.
Johnson, William M., 4,684,796, Cl. 250-201.000.
Keene, Donald W., 4,651,565, Cl. 73-505.000.
Lala, Jaynarayan H.; and Brock, Larry D., 4,665,522, Cl 371-36.000.
Magee, Robert J., 4,650,279, Cl. 350-96.240.
Malsky, Herbert, 4,645,961, Cl. 310-156.000.
Volp, Jeffrey A., 4,659,942, Cl. 307-19.000.
Welling, Peter A., 4,685,114, Cl. 375-22.000.
Wood, George A., 4,638,749, Cl. 112-121.120.
arles Wyle Engineering Corporation: *See—*
Sirkin, Robert, 4,681,242, Cl. 222-41.000.
arleswater Products, Inc.: *See—*
Berbeco, George R., 4,645,717, Cl. 428-503.000.
Berbeco, George R., 4,662,514, Cl. 206-328.000.

Charlot, Lincoln H., Jr.: *See—*
Ferguson, Lucian G.; and Charlot, Lincoln H., Jr., 4,654,641, Cl 340-572.000.
Herman, Fred W.; and Charlot, Lincoln H., Jr., 4,670,740, Cl 340-572.000.
Charlson, Glenn T.: *See—*
Brunner, Merlin A.; Draheim, Harvey J.; and Charlson, Glenn T., 4,703,524, Cl. 5-93.00R.
Charlson, Robert J.: *See—*
Ogren, John A.; Heintzenberg, Jost; and Charlson, Robert J., 4,689,052, Cl. 55-17.000.
Charlton, Jaehn B. Pollution control device. 4,671,807, 6-9-87, Cl 55-100.000.
Charlton, Steven C.; Fleming, Roger L.; Hemmes, Paul; and Lau, Arthur L. Y., to Miles Laboratories, Inc. Unified test means for ion determination. 4,645,744, 2-24-87, Cl. 436-74.000.
Charlton, Steven C.; Hemmes, Paul; and Lau, Arthur L. Y., to Miles Laboratories, Inc. Ion test means having a hydrophilic carrier matrix. 4,649,123, 3-10-87, Cl. 436-79.000.
Charlton, Trevor G., to Spectrol Reliance Limited. Rotational optical encoder having binary output. 4,705,943, 11-10-87, Cl. 250-231.0SF.
Charm, Richard W.: *See—*
Nuzzi, Francis J.; Leech, Edward J.; Charm, Richard W.; and Polichette, Joseph, 4,662,944, Cl. 106-1.110.
Charman, John C. Trunk lid fastening device for automobiles. 4,666,194, 5-19-87, Cl. 292-288.000.
Charmet, Paul, to Commissariat a l'Energie Atomique. Wide frequency pass band magnetic field detector. 4,714,880, 12-22-87, Cl 324-258.000.
Charmeux, Gilbert, to Societe d'Etudes Techniques et d'Entreprises Generales-Transmission Automatique Informatiques-Sodetag-T.A.I. Fastening device of electroluminescent diodes on a sealed display table. 4,684,940, 8-4-87, Cl. 340-815.200.
Charmilles Technologies S.A.: *See—*
Balleys, Francois, 4,691,089, Cl. 219-69.00W.
Bonga, Benno I., 4,645,894, Cl. 219-69.00W.
Briffod, Jean P.; and Martin, Roland, 4,652,717, Cl. 219-69.00W.
Dauw, Dirk, 4,700,038, Cl. 219-69.00P.
Girardin, Roger, 4,697,478, Cl. 219-69.00W.
Marendaz, Georges-Andre, 4,675,491, Cl. 219-69.00W.
Martin, Roland, 4,659,893, Cl. 219-69.00M.
Schneider, Rudolf; and Josserand, Joseph, 4,652,716, Cl. 219-69.00M.
Wavre, Alain, 4,661,678, Cl. 219-69.00W.
Charmillot, Rene; and Lebet, Jean-Pierre, to Symtonic SA. Method of treating neurovegetative disorders and apparatus therefor. 4,649,935, 3-17-87, Cl. 128-783.000.
Charneski, David M.; and Shaw, James D., to Eastman Kodak Company. Method for correcting for changes in air pressure above a liquid to be dispensed from a container mounted on a probe. 4,675,301, 6-23-87, Cl. 436-180.000.
Charoensakvirochana, Chamras; and Boey, Wing K., to National Semiconductor Corporation. Apparatus and method for packaging eprom integrated circuits. 4,644,384, 2-17-87, Cl. 357-74.000.
Charonnat, Yves; and Larribe, Lucien, to VIAFRANCE and State of France as represented by the Ministry of Urban Planning, Housing and Transportation, Central Laboratory of Roads and Bridges. Tractor-drawn forming tool for making concrete slabs on the ground. 4,678,364, 7-7-87, Cl. 404-105.000.
Charpak, Georges: *See—*
Lewiner, Jacques; Charpak, Georges; and Pollak, Elie, 4,673,885, Cl. 324-457.000.
Charpentier, Jacques: *See—*
Jacquot, Alain; and Charpentier, Jacques, 4,648,294, Cl. 82-4.00R.
Charra, Jean-Pierre, to Berthiez-Saint-Etienne. Tool and attachment gripping and releasing means. 4,641,415, 2-10-87, Cl. 29-568.000.
Charransol, Pierre; Audrix, Jean C.; and Athenes, Claude, to Thomson-CSF Telephone. Prediffused integrated circuit and a method of interconnection of the cells of said circuit. 4,644,382, 2-17-87, Cl 357-42.000.
Charransol, Pierre; Audrix, Jean-Claude; and Gouit, Jacques, to Thomson-CSF Telephone. Read/write memory and cell constituting same. 4,654,823, 3-31-87, Cl. 365-174.000.
Charras, Jean-Pierre: *See—*
Beauviala, Jean-Pierre; and Charras, Jean-Pierre, 4,659,198, Cl 352-92.000.
Charrieras, Andre: *See—*
Cariteau, Bernard; Legros, Jean-Pierre; Charrieras, Andre; and Feuvrier, Michel, 4,706,423, Cl. 52-169.700.
Charron, Rene. Protective outer garment for divers. 4,638,509, 1-27-87, Cl. 2-2.10R.
Charte, Vincent J.: *See—*
Gradeff, Peter S.; Schreiber, Fred G.; Charte, Vincent J.; and Davison, John F., 4,647,401, Cl. 252-309.000.
Charters, Ian J.: *See—*
Clifford, Rodney J.; and Charters, Ian J., 4,684,322, Cl. 416-95.000.
Chartier, Eric: *See—*
Boulitrop, Francois; Chartier, Eric; Mourey, Bruno; and Le Berre, Serge, 4,697,331, Cl. 437-82.000.
Chartier, Michael S.: *See—*
Wargo, Robert A.; Harwood, Leopold A.; Pritchard, Dalton H.; and Chartier, Michael S., 4,716,462, Cl. 358-166.000.
Charton, Alain: *See—*
Durant, Jacques; Simon, Georges; and Charton, Alain, 4,708,049, Cl. 89-11.000.

Chartrain, Jean-Claude: *See*—
Mortier, Guy; and Chartrain, Jean-Claude, 4,690,596, Cl 409-143.000.

Charuest, George M.; and Coughlin, Lawrence P., to J. E. Hanger Limited. Brace for an articulating limb. 4,635,623, 1-13-87, Cl 128-80.00C.

Charvet, Jean-Louis; and Garcia, Christian, to Compagnie Generale des Etablissements Michelin. Reinforcement cable formed solely or at least in part of an assembly of two-wire strands; articles containing such cables. 4,644,989, 2-24-87, Cl 152-451.000.

Charvet, Jean-Louis, to Compagnie Generale des Etablissements Michelin. Reinforcement assembly having a layer comprising a shaped thread; articles comprising such assemblies. 4,709,544, 12-1-87, Cl 57-218.000.

Charvin, Philippe; and Vavasseur, Paul, to Commissariat a l'Energie Atomique. Actuator usable in a fluid under high pressure. 4,706,596, 11-17-87, Cl 114-312.000.

Chasan, Dow B. System for removing air from waterbed. 4,639,961, 2-3-87, Cl 5-508.000.

Chasanoff, Daniel. Light, continuous force orthodontic appliance and method. 4,655,707, 4-7-87, Cl 433-9.000.

Chase, Charles: *See*—
Brenner, Stanley S.; and Chase, Charles, 4,661,885, Cl 361-346.000.

Chase, Charles E., Jr.: *See*—
Yarranton, Arthur; Chase, Charles E., Jr.; and Picquendar, Jean E., 4,639,697, Cl 333-155.000.

Chase, David O.: *See*—
Brush, John D., Jr.; and Chase, David O., 4,688,493, Cl 109-65.000.

Chase, Fred G., Sr.: *See*—
Smith, Gordon M.; Chase, Fred G., Sr.; and Ducharme, Gerard E., 4,679,764, Cl 251-14.000.

Chase, Geoffrey S. Support. 4,678,149, 7-7-87, Cl 248-150.000.

Chase Instruments Corporation: *See*—
Robinson, E. Howell, Jr., 4,705,551, Cl 65-60.100.

Chase, James W.: *See*—
Worns, John R.; Chase, James W.; and Capriotti, Bruce W., 4,684,600, Cl 430-271.000.

Chase, Kathryn M.: *See*—
Kirschner, Jonathan; and Chase, Kathryn M., 4,660,741, Cl 222-1.000.

Chase, Lee: *See*—
Hegland, Philip; and Chase, Lee, 4,692,616, Cl 250-252.100.

Chase, Lee M.; and Sudikoff, David, to Measurex Corporation. Defect detector for cord reinforced tire fabric. 4,706,267, 11-10-87, Cl 378-61.000.

Chase, Michael. Magnetic occluding device. 4,642,257, 2-10-87, Cl 428-63.000.

Chase, Paul E.: *See*—
Opitz, Charles L.; and Chase, Paul E., 4,641,137, Cl 342-52.000.

Chase, Richard C.: *See*—
Burstein, Paul; Krieger, Allen; Annis, Martin; and Chase, Richard C., 4,691,332, Cl 378-7.000.

Chase, Richard P.; Englander, Gary E.; German, Martin A.; and Volk, Joseph F., to Warner & Swasey Company, The. Dual wheel cylindrical grinding center. 4,709,514, 12-1-87, Cl 51-325.000.

Chase, Ronald G.: *See*—
Miseyko, George; Peck, Walter R.; and Chase, Ronald G., 4,637,577, Cl 244-147.000.

Chase, Thomas L.; and Long, Kenneth A., to RCA Corporation. Apparatus for securing a cathode-ray tube during processing. 4,695,045, 9-22-87, Cl 269-152.000.

Chasman, Sydney A. Method and apparatus for forming capsules. 4,655,027, 4-7-87, Cl 53-140.000.

Chasman, Sydney A. Method and apparatus for forming capsules. 4,662,155, 5-5-87, Cl 53-433.000.

Chason, Marc K.; Kotecki, Carl A.; Tomase, Joseph P.; Onystok, Michael J.; Ryback, Donald J.; Kinsman, Robert G.; Dworsky, Lawrence N.; Nield, Kenneth J.; and Moore, Steven C., to Motorola, Inc. Electrostatically sealed piezoelectric device. 4,639,631, 1-27-87, Cl 310-344.000.

Chason, Marc K.; Tomase, Joseph P.; and Onystok, Michael J., to Motorola, Inc. Edge-mounting configuration for at-strip resonators. 4,642,511, 2-10-87, Cl 310-348.000.

Chassaigne, Maurice: *See*—
Ropars, Claude; Nicolau, Yves C.; and Chassaigne, Maurice, 4,652,449, Cl 424-101.000.

Chassaing, Claude; Collart, Jean-Claude; and Lubert, Yves, to Renault Vehicules Industriels. Bedding installation for road vehicle cabs. 4,659,137, 4-21-87, Cl 296-190.000.

Chasse, Dennis W.; Bourgeois, David R.; and Comins, Todd R., to Honeywell Information Systems Inc. Data collection terminal high speed communication link interrupt logic. 4,646,260, 2-24-87, Cl 364-900.000.

Chasse, Dennis W.: *See*—
Clark, Vincent M., Jr.; Bourgeois, David R.; Chasse, Dennis W.; and Comins, Todd R., 4,669,057, Cl 364-900.000.

Chasseguet, Gustave: *See*—
Billet, Rene ; Rumignani, Paolo; and Chasseguet, Gustave, 4,698,045, Cl 464-68.000.

Chast, Francois: *See*—
Besancon, Francois; and Chast, Francois, 4,661,338, Cl. 424-7.100.

Chastain, David M.: *See*—
Cline, James H.; and Chastain, David M., 4,665,506, Cl 365-189.000.
Jones, Thomas M.; and Chastain, David M., 4,701,917, Cl. 371-16.000.

Chastain, Gary K.: *See*—
Maybrier, William H., and Chastain, Gary K., 4,699,429, Cl 299-7.000.

Chastanet, Bernard; Decailloz, Claude; Dournel, Solange; and Manson, Marcel, to Commissariat a l'Energie Atomique. Method and apparatus for producing a reactor spacing grid by pulse laser welding. 4,636,606, 1-13-87, Cl 219-121.0LC.

Chastang, Georges J. B.: *See*—
Viannay, Stephane G. J.; Roth, Bernard M.; Mirigay, Solange M. V.; and Chastang, Georges J. B., 4,711,431, Cl 266-114.000.

Chastine, Gary L., to General Electric Company. Household refrigerator compressor vibration isolator. 4,643,386, 2-17-87, Cl 248-632.000.

Chateau, Fernand, to Compagnie Generale des Etablissements Michelin. Device and method for assembling threads. 4,689,942, 9-1-87, Cl 57-58.360.

Chateau, Robert E.; and Baldwin, Carl S., to Chateau, Robert E. Athletic monitoring device. 4,699,379, 10-13-87, Cl 273-54.00B.

Chatelain, Jean-Claude, to Centre Technique de l'Industrie Horlogere "Cetehor". Step motor particularly for electronic timepieces. 4,665,330, 5-12-87, Cl 310-49.00R.

Chatelain, Robert P.: *See*—
Bourgeois, Leverence, Jr., 4,655,297, Cl 172-445.100.

Chatelin, Jacques H. Hydraulic servo motor. 4,642,986, 2-17-87, Cl 60-474.000.

Chatenay epouse Compagnone, Catherine M. Device for maneuvering scenery. 4,662,628, 5-5-87, Cl 272-22.000.

Chatham, Dale: *See*—
Ballard, Jerry L.; Chatham, Dale; and Gaulke, Gerald E., 4,694,392, Cl 364-200.000.

Chatham, Gregory A.: *See*—
Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., 4,652,115, Cl 355-14.0TR.
Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., 4,697,920, Cl 355-14.0CH.
Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., 4,699,079, Cl 118-658.000.
Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., 4,705,385, Cl 355-4.000.

Chatham, Thomas B.: *See*—
Hammond, Ray L.; and Chatham, Thomas B., 4,708,889, Cl 427-140.000.

Chatleff Controls, Inc.: *See*—
Parrish, James R., 4,674,673, Cl 228-174.000.
Wiser, David, 4,643,222, Cl 137-528.000.

Chattanooga Corporation: *See*—
Alon, Gad, 4,690,146, Cl 128-422.000.
Caspari, Richard B., 4,679,552, Cl 128-132.00D.

Chatterjea, Probir K., to J. I. Case Company. Master clutch pressure and lubrication valve. 4,644,968, 2-24-87, Cl 137-599.200.

Chatterjea, Probir K., to Dresser Industries, Inc. Pulsation limiter for manually actuated hydraulic valve. 4,656,924, 4-14-87, Cl 92-85.00B.

Chatterjee, Ananda M., to Shell Oil Company. Nucleating agents for stereoregular elastomeric butene-1 polymer compositions. 4,645,79 2-24-87, Cl 524-490.000.

Chatterjee, Madhu S., to General Motors Corporation. Single frequency induction hardening process. 4,639,279, 1-27-87, C 148-147.000.

Chatterjee, Pallab K.; and Shah, Ashwin H., to Texas Instruments Incorporated. Vertical DRAM cell and method. 4,673,962, 6-16-8 Cl 357-23.600.

Chatterjee, Pallab K., to Texas Instruments Incorporated. dRAM cell and array. 4,683,486, 7-28-87, Cl 357-23.600.

Chatterjee, Pallab K., to Texas Instruments Incorporated. High density micropackage for IC chips. 4,695,872, 9-22-87, Cl 357-75.000.

Chatterjee, Pronoy K.: *See*—
Makoui, Kambiz B.; and Chatterjee, Pronoy K., 4,689,118, C 162-100.000.

Chatterson, Louis M., to Haworth, Inc. Compressor unit for filing unit. 4,648,527, 3-10-87, Cl 220-22.400.

Chatterson, Louis M.; and McKernan, Thomas, to Haworth, Inc. Lock mechanism for lateral file. 4,662,689, 5-5-87, Cl. 312-219.000.

Chattha, Mohinder S.; and Theodore, Ares N., to Du Pont de Nemours, E. I., and Company. Glycidyl-hydroxy-acrylic high solids coating compositions. 4,710,543, 12-1-87, Cl 525-161.000.

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  - Chao, Hu H.; and Chau-Chun Lu, Nicky, 4,678,941, Cl. 307-449.000.
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  - Durston, Thomas W.; Fleitz, George D.; Coffelt, Steven R.; Eckman, James D.; Wong, Wayne K.; and Chavannes, Theodore E., 4,707,848, Cl. 379-1.000.
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  - Atanassova, Ivanka A.; Haimova, Marieta A.; Chavdarova, Vesselina B.; Nakov, Anton I.; Petkov, Nedelcho G.; and Avramova, Ruska S., 4,711,956, Cl. 540-327.000.
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  Humble, David R.; Gentzler, David L.; and Tilidetzke, Steven J., 4,676,343, Cl. 186-61.000.

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  Anderson, Chris, 4,665,246, Cl. 585-320.000.

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  Jost, Ernest M.; and Santala, Timo J., 4,700,475, Cl. 29-874.000.

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Chemfil Corporation: *See—*
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  Andersson, Sven-Goran B., 4,695,659, Cl. 568-805.000.

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  Effenberger, John A.; Ribbans, Robert C., III; and Keese, Fran M., 4,654,235, Cl. 427-407.300.

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  Hyatt, David E., 4,657,745, Cl. 423-53.000.

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  Hughes, Robert R.; and Scott, Robert G., 4,642,842, Cl. 15-359.000.

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  Takahata, Yasuyo; and Miyagawa, Ryuji, 4,694,092, Cl. 556-400.000.

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  Barthell, Eduard; Capelle, Anthony; Chmelir, Miroslav; and Dahmen, Kurt, 4,663,491, Cl. 585-3.000.
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  Lenards, Gerhard; and Stukenbrock, Karl-Heinz, 4,668,323, Cl. 156-242.000.
  Peppmoller, Reinmar; and Koschier, Friedlieb, 4,711,919, Cl. 524-77.000.

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  - Disteldorf, Josef; Hubel, Werner; and Wolf, Elmar, 4,668,780, Cl 540-202.000.
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  - Bartmann, Martin; Bax, Hanns-Jorg; Burzin, Klaus; Ribbing, Wilfried; and Sridhar, Srinivasan, 4,659,803, Cl 528-491.000.
  - Feinauer, Roland, and Jadamus, Hans, 4,690,970, Cl 524-504.000.
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  - Juhasz, Adam, 4,668,392, Cl 210-227.000.
- Chemplex Company: *See—*
  - Hwang, Yu-Tang; Pebsworth, Lloyd; Dombro, Robert A.; and Hoff, Raymond E., 4,634,744, Cl 526-84.000.
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  - Solazzi, Michael C., 4,698,210, Cl 422-102.000.
  - Solazzi, Monte J., 4,643,033, Cl 73-864.910.
  - Solazzi, Monte J., 4,665,759, Cl 73-864.910.
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  - Butters, Brian C. F.; and Pollicott, Ian D., 4,649,076, Cl 428-361.000.
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  - Monsees, John C., 4,687,702, Cl 428-308.400.
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- Chen, Andrie C. T., and Jahns, Hans O., to Exxon Production Research Company. Spray ice structure. 4,699,545, 10-13-87, Cl 405-217.000.
- Chen, Augustin T., and Onder, Kemal, to Dow Chemical Company, The. Polyamide-poly-carbonate block copolymers. 4,649,180, 3-10-87, Cl 525-462.000.
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- Chen, Chih-Chung. Blind with a music box. 4,653,377, 3-31-87, Cl 84-94.00C.
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- Chen, Ching-Jen: *See—*
  - Chen, Ching-Wen; and Chen, Ching-Jen, 4,703,674, Cl 81-9.420.
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- Chen Dai, Yin-Chiao. Budo complex weapon. 4,655,456, 4-7-87, Cl 273-84.00R.
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- Chen, Franklin M. C.; and Van Bemmel, William R., to Kimberly-Clark Corporation. Radiation curing formulations for polyethylene film reinforcement to provide refastenable pressure-sensitive tape closure system for disposable diapers. 4,643,730, 2-17-87, Cl 604-390.000.
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- Chen, Horng-Yih: *See—*
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- Chen, Jade: *See—*
  - Birdy, Jal N., Watt, Brian J., and Chen, Jade, 4,655,642, Cl 405-217.000.
- Chen, James N.: *See—*
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- Chen, James T. C. Method and circuit for reducing contact resistance of the potential probes of a four-point-probe in contact with a III-V compound semiconductor wafer. 4,706,015, 11-10-87, Cl 324-64.000.
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  - Brown, Harold E., Mozsgai, Steven I.; and Chen, Jason C., 4,658,400, Cl 371-25.000.
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  - Labes, Mortimer M., and Chen, Jiann H., 4,649,038, Cl 423-364.000.
- Chen, Jiann-Neng: *See—*
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  Goldberg, Bruce S.; and Chen, Richard, 4,689,302, Cl. 435-288.000.

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  Noufi, Rommel; and Chen, Yih-Wen, 4,642,140, Cl. 148-6.240.

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  Liu, Jia-ming; and Chen, Ying C., 4,689,793, Cl. 372-8.000.
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heng, Mei: *See—*
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Ashton, Gerard J.; Cavaliere, Joseph R.; and Cheng, Ming T., 4,709,169, Cl. 307-455.000.

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Elkins, Tammy M.; and Cheng, Paul J., 4,704,333, Cl. 423-447.100.

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eng, Peter S. C. Convertible toothbrush. 4,712,267, 12-15-87, Cl. 5-172.000.

ng, Roberta C.: *See—*
Houtchens, Robert A.; Cheng, Roberta C.; McCoy, Karen M.; Epstein, Carol C.; and Moll, Norman G., 4,675,292, Cl. 435-94.000.

ng, Sam. Lamp string assembly with protective means. 4,667,276, -19-87, Cl. 362-249.000.

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King, William F., 4,665,093, Cl. 514-493.000.

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Knowlton, Harold E., 4,689,155, Cl. 210-708.000.

Liston, Thomas V.; Lowe, Warren; and Small, Vernon R., 4,643,838, Cl. 252-52.00R.

Lopez, Jaime; and Pasek, Eugene A., 4,710,486, Cl. 502-219.000.

Maloney, Timothy R.; Patterson, David E.; and Aseltine, Richard J., 4,708,595, Cl. 417-109.000.

McLeod, Paul S.; Cape, John A.; Fraas, Lewis M.; and Partain, Larry D., 4,658,086, Cl. 136-249.000.

Meader, Arthur L., Jr., 4,689,268, Cl. 428-413.000.

Miller, Stephen J., 4,657,661, Cl. 208-58.000.

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Miller, Stephen J., 4,710,485, Cl. 502-213.000.

Mitchell, Bruce R.; and Vogel, Roger F., 4,707,461, Cl. 502-64.000.

Moore, Joseph E.; Yang, Yuh-Lin; Griffith, Robert K.; and Chan, David C. K., 4,652,558, Cl. 514-155.000.

New, Richard, 4,695,192, Cl. 405-203.000.

New, Richard, 4,695,196, Cl. 405-224.000.

Nguyen, Tanh, 4,662,219, Cl. 73-195.000.

Nigrini, Andrew; and Hsueh, Liming, 4,714,112, Cl. 166-252.000.

Offermann, Paul F., 4,704,515, Cl. 219-300.000.

Omid, Ahmad; and Bassi, Pawan K., 4,701,205, Cl. 71-78.000.

Pandey, Sue D.; and Buss, Waldeen C., 4,680,280, Cl. 502-66.000.

Parker, Phillip H., 4,652,608, Cl. 525-132.000.

Patzer, John F., II; and Moon, William G., 4,687,569, Cl. 208-407.000.

Paulsson, Bjorn N. P., 4,702,343, Cl. 181-106.000.

Paulsson, Bjorn N. P., 4,715,470, Cl. 181-106.000.

Pella, Amy, 4,715,252, Cl. 81-176.100.

Plavac, Frank; and Wollenberg, Robert H., 4,680,129, Cl. 252-51.50A.

Plavac, Frank, 4,695,291, Cl. 44-62.000.

Pomidor, Patricia B.; and Ward, Carl E., 4,663,466, Cl. 549-68.000.

Reed, Marion G.; and Gibson, James B., 4,659,259, Cl. 405-263.000.

Roberts, F. Alex, 4,635,236, Cl. 367-19.000.

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Rose, Bernard F., 4,639,460, Cl. 514-369.000.

Salaita, George N., 4,645,935, Cl. 250-390.000.

Salentine, Christopher G., 4,640,827, Cl. 423-279.000.

Santilli, Donald S.; Long, John J.; and Lewis, Robert T., 4,698,322, Cl. 502-74.000.

Santilli, Donald S.; Long, John J.; and Lewis, Robert T., 4,699,894, Cl. 502-74.000.

Schmadel, Donald C., Jr.; and Goodman, Jack E., 4,636,031, Cl. 350-96.190.

Schmadel, Donald C., Jr.; and Culver, William H., 4,697,888, Cl. 350-358.000.

Sie, Swan A., 4,694,162, Cl. 250-231.00R.

Smith, David S.; and Kamins, Harold W., 4,685,842, Cl. 406-106.000.

Smith, David S., 4,687,382, Cl. 406-168.000.

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Spatz, David M., 4,661,494, Cl. 514-255.000.

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Stangeland, Bruce E., 4,674,322, Cl. 73-54.000.

Starkston, Robert; Luce, Mark C.; and Homsy, Robert V., 4,647,397, Cl. 252-189.000.

Stemke, Jeffrey E., 4,661,276, Cl. 252-51.50A.

Sweeney, W. Alan, 4,695,401, Cl. 252-312.000.

Thompson, Robert E., 4,696,542, Cl. 350-96.230.

Threlkel, Richard S., 4,677,241, Cl. 585-526.000.

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Ward, Carl E., 4,643,762, Cl. 71-95.000.

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Wollenberg, Robert H., 4,663,062, Cl. 252-47.500.
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Wollenberg, Robert H., 4,666,460, Cl. 44-63.000.
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Wollenberg, Robert H., 4,670,170, Cl. 252-47.500.
Wollenberg, Robert H., 4,702,851, Cl. 252-49.600.
Wollenberg, Robert H., 4,713,188, Cl. 252-51.50A.
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Chew, James P., to American Standard Inc. Molded plastic bracket for lamp receptacle. 4,700,278, 10-13-87, Cl. 362-249.000.

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Chew, Weng C.: *See—*
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Chez, Ephriam. Apparatus and method for electronic decomposition of water into aqueous free radicals and free electrons. 4,676,878, 6-30-87, Cl. 204-101.000.

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Chhatwal, K. N. Singh, to Algonquin Mercantile Corporation. Steam responsive thermostatic control arrangement for electric kettles. 4,645,910, 2-24-87, Cl. 219-437.000.

Chi, Charles H. Method and apparatus for protecting press from being damaged by overload conditions. 4,692,857, 9-8-87, Cl. 364-184.000.

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Chi, Kyung D. Multi-purpose cigarette pipe. 4,644,962, 2-24-87, Cl. 131-174.000.

Chi, Minn-Shong, to Hercules Incorporated. Polyfunctional isocyanate crosslinking agents for propellant binders. 4,670,068, 6-2-87, Cl. 149-19.400.

Chia, Chok J., to National Semiconductor Corporation. Molded pin grid array package GPT. 4,688,152, 8-18-87, Cl. 361-408.000.

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Chiampas, George E.; Finnegan, John P.; and Villegas, Henry, to Motorola, Inc. Spark protected alternator. 4,680,495, 7-14-87, Cl. 310-220.000.

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Chiang, John S. C.; and McCarthy, Michael J., to FMC Corporation. Electrolytic process for manufacturing potassium peroxydiphosphate. 4,663,002, 5-5-87, Cl. 204-82.000.

Chiang, John S. C., to FMC Corporation. Process for manufacturing hydrogen peroxide electrolytically. 4,693,794, 9-15-87, Cl. 204-84.000.

Chiang, Peter K.; Richard, Michelle M.; Padilla, Felipe N.; Carroll, Frank I.; and Abraham, Philip, to United States of America, Army, and Research Triangle Institute. Azabicycloalkane phenyl substituted alkane carboxylates, their preparation and use as anticholinergic agents. 4,713,391, 12-15-87, Cl. 514-412.000.

Chiang, Robert L.; and Staniulis, Mark T., to Union Carbide Corporation. Catalytic cracking catalysts for high octane gasoline products. 4,678,765, 7-7-87, Cl. 502-65.000.

Chiang, Yu-Wei: *See—*
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Chiao, Wen B., to National Starch and Chemical Corporation. Anaerobic adhesive compositions. 4,656,229, 4-7-87, Cl. 525-518.000.

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Chiappetta, Peggy L.; and Maggio, Brenda S. Lotta luck lottery ki 4,662,518, 5-5-87, Cl. 206-449.000.

Chiarino, Dario; Carenzi, Angelo; Della Bella, Davide; and Fantucc Mario, to Zambon S.p.A. 1-(4-alkylthiophenyl)-2-(substituted or unsubstituted piperazine-1-yl)-1,3-propanediol, pharmaceutical compositions containing them useful as antiarrhythmic and vasodilating agents. 4,638,003, 1-20-87, Cl. 514-255.000.

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Chiaves, Carlo, to Tensiter S.p.A. Prefabricated support and covering structure, particularly for constructing tunnels, bridges and the lik 4,693,634, 9-15-87, Cl. 405-126.000.

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hiba, Sigeru. Ultrasonic disintegrating apparatus. 4,697,751, 10-6-87, Cl. 241-301.000.
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Axelrod, Joan C.; and Chibnik, Sheldon, 4,657,562, Cl. 44-71.000.
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cago Metallic Corporation: *See—*
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cago Pneumatic Tool Company: *See—*
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cago Rawhide Mfg. Co.: *See—*
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Chiesa, Alan F.; Medendorp, LeRoy E.; Perry, Edward C.; and Schweikert, John F., to General Motors Corporation. EGR diagnostic system. 4,671,107, 6-9-87, Cl. 73-118.200.
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Chigira, Masayoshi: *See—*
Nakamura, Kazuhito; Sasaki, Hisami; Chigira, Masayoshi; and Yokoi, Kenji, 4,678,590, Cl. 252-8.800.
Chigira, Sadao: *See—*
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Chigusa, Takeshi: *See—*
Matsuyama, Kiyoshi; Suzuki, Takatoshi; and Chigusa, Takeshi, 4,713,444, Cl. 528-502.000.
Chihara, Hiroyuki: *See—*
Wakai, Yoichi; and Chihara, Hiroyuki, 4,646,157, Cl. 358-236.000.
Chihara, Kohji Y.: *See—*
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Chikamasa, Hiroshi; and Sakaguchi, Masaaki, to Fuji Photo Film Co., Ltd. Magnetic tape winding method and system. 4,679,744, 7-14-87, Cl. 242-67.30R.

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Sakaida, Atsuo; Kawaura, Masafumi; Chikaoka, Yasuji; Iwata, Hiroshi; and Asano, Kiyomitsu, 4,634,301, Cl. 400-124.000.

Chikashige, Kiyoshi, to Clarion Co., Ltd. Tape transport cylinder with stress-relieved bearing recess. 4,712,147, 12-8-87, Cl. 360-130.240.

Chikasue, Hideo, to Yazaki Corporation. Cross-coil type indicating instrument. 4,715,043, 12-22-87, Cl. 374-184.000.

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Kanazawa, Hirotaka; Takatani, Teruhiko; Furutani, Shigeki; Chikuma, Isamu; Shimada, Satoru; and Eda, Hiroshi, 4,646,367, Cl. 180-140.000.

Chikuma, Kiyofumi, to Pioneer Electronic Corporation. Aspheric object lens for optical data read-out apparatus. 4,671,623, 6-9-87, Cl. 350-432.000.

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Nishizawa, Shun-ichi; Tsubota, Toshio; and Chikura, Takashi, 4,698,568, Cl. 318-481.000.

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Persicke, Gunter; Child, James R.; and Baker, Peter F., 4,700,815, Cl. 188-286.000.

Child, Ralph G.; Fields, Thomas L.; Wilkinson, Raymond G.; and Lin, Yang-I, to American Cyanamid Company. 3,6-bis (substituted) acridine N-oxides and N,N-dioxides and methods of restoring, stimulating or enhancing the immune system with them. 4,696,936, 9-29-87, Cl. 514-297.000.

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Bitha, Panayota; Child, Ralph G.; Hlavka, Joseph J.; and Lin, Yang-I, 4,675,336, Cl. 514-492.000.

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Child, Robert P., to Thorn EMI Appliances Limited. Carbonating apparatus. 4,655,124, 4-7-87, Cl. 99-323.200.

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Tran, Bao G.; McAdams, Hugh P.; and Childers, Jimmie D., 4,658,382, Cl. 365-203.000.

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Johnson, Dale V.; and Childers, Thomas W., 4,651,818, Cl. 166-115.000.

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Clark, Leland, Jr., 4,680,268, Cl. 435-291.000.

Denicola, Patricia J.; and Gorgone, Patricia A., 4,688,270, Cl. 2-102.000.

Hardy, Roger I., 4,658,817, Cl. 128-303.100.

Children's Hospital Research Foundation: *See—*

Tamborski, Christ; and Clark, Leland C., Jr., 4,640,833, Cl. 424-5.000.

Children's Medical Center Corporation, The: *See—*

Borel, Yves; Stollar, B. David; Borel, Helina; and Gallop, Paul M., 4,650,675, Cl. 424-85.000.

Davison, Alan; Brenner, David; Lister-James, John; and Jones, Alun G., 4,673,562, Cl. 424-1.100.

Gallop, Paul M.; and Paz, Mercedes, 4,659,817, Cl. 540-541.000.

Gallop, Paul M.; Henson, Edward; and Fluckiger, Rudolf, 4,713,346, Cl. 436-86.000.

Childress, Don E.: *See—*

Quock, Deborah E. R.; Triplett, Timothy L.; and Childress, Don E., 4,639,312, Cl. 210-101.000.

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Childress, John F., to International Business Machines Corporation Data entry screen. 4,646,250, 2-24-87, Cl. 364-518.000.

Childs, Ernest A.; and Narasimhan, Rajagopalan, to Schreiber Foods, Inc. Casein-soluble protein complex. 4,713,254, 12-15-87, C 426-582.000.

Childs, Henry T., to Temperature Adjusters, Inc. Heat exchanger flue 4,699,317, 10-13-87, Cl. 237-81.000.

Childs, Henry T., to Temperature Adjusters, Inc. Controlled coal burning and heat collecting method and apparatus. 4,702,17 10-27-87, Cl. 110-215.000.

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Childs, Jerry D.; Sutton, David L.; and Sabins, Freddie L., to Halliburton Company. Set delayed cement compositions and methods using the same. 4,676,832, 6-30-87, Cl. 106-90.000.

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Nayler, Douglas W. J.; Foreman, Fred R.; and Childs, Willard D., 4,688,764, Cl. 254-277.000.

Chilinski, Herbert; Getzlaff, Klaus J.; Hajdu, Johann; and Richter Stephan, to International Business Machines Corporation. Device in the instruction unit of a pipeline processor for instruction interruption and repetition. 4,656,578, 4-7-87, Cl. 364-200.000.

Chillier, Maurice. Mechanical therapeutic apparatus. 4,666,151, 5-19-87 Cl. 272-134.000.

Chilson, Donald A.; and Smith, Kevin W., to Cordis Corporation Intraventricular multielectrode cardial mapping probe and method for using same. 4,699,147, 10-13-87, Cl. 128-642.000.

Chilton, Henry; and Dickson, Lester, to Bowman Gray School of Medicine, Wake Forest University. Method and apparatus for bolus delivery of gases and aerosols and insufflations. 4,706,683, 11-17-87 Cl. 128-654.000.

Chilvers, Edward W., Jr.: *See—*

Chamberlin, John M.; Chilvers, Edward W., Jr.; Nunning, Walter J.; and Southern, John H., 4,646,514, Cl. 57-288.000.

Chimenti, Dale E.; and Bar-Cohen, Yoseph, to United States of America, Air Force. Properties of composite laminates using leaky lam waves. 4,674,334, 6-23-87, Cl. 73-627.000.

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Romano, Ugo; Sasselli, Giacomo; and Raisa, Luigi, 4,670,606, C 568-410.000.

Chimica del Friuli S.p.A.: *See—*

Senni, Paolo; Zuliani, Leandro; and Ferruzzi, Sergio, 4,647,661, C 540-537.000.

Chimney Guard Ltd.: *See—*

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Chimowitz, Eldred: *See—*

Pennisi, Kenneth; and Chimowitz, Eldred, 4,714,526, C 203-49.000.

Chin, Aland K.: *See—*

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Satyanarayan, Arumugam; and Chin, Aland K., 4,714,518, C 156-635.000.

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Chin, Brymer H., to American Telephone and Telegraph Company AT&T Bell Laboratories. Multiple meltback procedure for LPE growth on InP. 4,662,983, 5-5-87, Cl. 156-624.000.

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Chin, Daniel Y. S.; Miller, David D.; May, William L.; and Baker, Dennis G., to Gulf & Western Manufacturing Company. Bus networks for digital data processing systems and modules usable therewith. 4,647,123, 3-3-87, Cl. 339-17.0LM.

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Behl, Wishvender K.; and Chin, Der-Tau, 4,696,103, C 29-825.000.

Chin, Herbert A., to United Technologies Corporation. High modulus shafts. 4,702,782, 10-27-87, Cl. 148-429.000.

Chin, Laurence D.; Hiscock, Christopher J.; and Domeier, Wayne H., to Barry Wright Corporation. Overload protection device. 4,714,865, 12-22-87, Cl. 318-563.000.

Chin, Te-Chien. Male organ jacket. 4,640,270, 2-3-87, Cl. 128-79.000.

Chin, Thomas G.; Klaver, Rudy F.; and Alston, Arthur, to Chevron Research Company. Gas saturation monitoring system and method for controlling condensable fuel added to a gas. 4,675,028, 6-23-87, Cl. 48-180.100.

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Chin, Timothy C.: *See—*

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China Technical Consultants, Inc.: *See—*

Wey, Feng-Feng, 4,711,743, Cl. 260-370.000.

Chinchillo, A. Robert: *See—*

Sa, Norbert; Miccioli, William F.; Chinchillo, A. Robert; and Toth, John F., 4,700,193, Cl. 342-427.000.

Chinery, David, to British Petroleum Company, p.l.c., The. Flowmeter. 4,677,859, 7-7-87, Cl. 73-861.720.

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Liu, Kang-Jen; and Lee, Ho-Lun, 4,673,454, Cl. 156-281.000.

Ching, Hui P., to Kambo Security Products Ltd. Adjustable latch. 4,708,379, 11-24-87, Cl. 292-337.000.

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Chinn, Leland J., to G. D. Searle & Co. Substituted 1,5-diphenyl-2-pyrrolepropionic acids and derivatives. 4,694,018, 9-15-87, Cl. 514-427.000.

Chinn, Leland J.: *See—*

Djuric, Stevan W.; Chinn, Leland J.; and Rorig, Kurt J., 4,687,864, Cl. 549-414.000.

Chino, Eizi: *See—*

Inukai, Chyuji; Chino, Eizi; Tojima, Yoshio; Komagata, Hideki; and Nakamura, Masanori, 4,666,784, Cl. 428-425.900.

Chino, Koichi: *See—*

Kawamura, Fumio; Matsuda, Masami; Aoyama, Yoshiyuki; Chino, Koichi; and Mizumoto, Mamoru, 4,636,335, Cl. 252-629.000.

Chino, Shuichi: *See—*

Yamawaki, Masami; Chino, Shuichi; Minamisawa, Tsuyoshi; and Nakamura, Masaaki, 4,661,570, Cl. 526-88.000.

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Bakonyi, Maria; Lugosi, Gyorgy; Kallai, Tamas; Hima nee Toth, Maria; Montai, Tibor; and Sziladi, Maria, 4,675,413, Cl. 548-329.000.

Heja, Gergely; Korbonits, Dezso.; Palosi, Endre; Kiss, Pal; Gonczi, Csaba; Szvoboda nee Kanzel, Ida; Marvanyos, Ede; Kun, Judit; Szomor nee Wundele, Maria; Szabo, Gabor; Kallay, Tamas; and Ledniczky, Laszlo., 4,709,081, Cl. 560-100.000.

Kaldor, Istvan; Szasz, Andras; Vegh nee Ba, Ilona; Heizer, Jozsef; and Behedek nee Haraszin, Eva, 4,656,290, Cl. 548-306.000.

Lugosi, Gyorgy; Hima nee Toth, Maria; Bakonyi, Maria; and Szoke, Sandor, 4,659,515, Cl. 260-351.500.

Meszaros, Zoltan; Knoll, Jozsef; Hermecz, Istvan; Szentmiklosi, Peter; Horvath, Agnes; Vasvari nee Debreczy, Lelle; Kovacs, Gabor; Gyires, Klara; and Virag, Sandor, 4,666,912, Cl. 514-258.000.

Szekely, Istvan; Botar, Sandor; Dolgos nee Kekesi, Krisztina; Bertok, Bela; Gajary, Antal; Szabolcsi, Tamas; Kovacs, Gabor; and Lovasz nee Gaspar, Marianna, 4,638,002, Cl. 514-212.000.

Szuts, Tamas; Szentmiklosi, Peter; Lengyel, Jozsef; Hermecz, Istvan; Vasvari nee Debreczy, Lelle; Horvath, Agnes; Kersztury, Geza; Kovacs, Gabor; Horvath, Gabor; and Marmarosi nee Kellner, Katalin, 4,670,440, Cl. 514-254.000.

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Di Schiena, Michele G., 4,657,923, Cl. 514-399.000.

one, Naoki; Tsuji, Shinji; Fujisaki, Yoshihisa; Kashiwada, Yasuto- and Hirao, Motohisa, to Hitachi, Ltd. Distributed-feedback miconductor laser device. 4,665,528, 5-12-87, Cl. 372-96.000.

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Ohmuki, Nobutaka; Ojima, Masahiro; Arimoto, Akira; and Chinone, Naoki, 4,712,218, Cl. 372-38.000.

poros, Efthimios; Idelson, Elbert M.; and King, Patrick F., to laroid Corporation. Azo and azomethine dye developers. 56,117, 4-7-87, Cl. 430-225.000.

di, Wayne R.: *See—*

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ini, Laura: *See—*

ernardi, Luigi; Chiodini, Laura; Mantegani, Sergio; Ruggieri, Daniela; Temperilli, Aldemio; and Salvati, Patricia, 4,690,929, Cl. 514-288.000.

Chiodo, Daniel J.; and Maggio, Joseph, to Packaging Corporation International. Ejector for an automatic lancet arm. 4,658,821, 4-21-87, Cl. 128-314.000.

Chioffe, Joseph J., to Montclair Jewelry Corporation. Earring back device. 4,688,400, 8-25-87, Cl. 63-12.000.

Chiola, Vincent, executrix: *See—*

Chenot, Charles F.; Taylor, Robert E., deceased; Chiola, Vincent, executrix; and Walter, Wolfgang, 4,698,548, Cl. 313-487.000.

Chiolle, Antonio: *See—*

Credali, Lino; Corsi, Gianfranco; and Chiolle, Antonio, 4,710,336, Cl. 264-171.000.

Chion, Pierre; and Menault, Jacques, to Rhovyl. Process for disperse dyeing dry-spun atactic polyvinyl chloride-based filaments and fibres before drawing. 4,681,594, 7-21-87, Cl. 8-489.000.

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Chiou, Chji-Shyoung: *See—*

Sandiford, Burton B.; and Chiou, Chji-Shyoung, 4,665,987, Cl. 166-288.000.

Chipman, Russell A.; Obremski, Robert J.; and Brown, Christopher W., to Beckman Instruments, Inc. Multicomponent quantitative analytical method and apparatus. 4,660,151, 4-21-87, Cl. 364-498.000.

Chippendale, Arthur, Jr. Method and apparatus for cueing and pacing in audio and audio-visual work. 4,660,107, 4-21-87, Cl. 360-14.300.

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Chirdon, Charles P., to Essef Corporation. Antiseal arrangement for hydropneumatic pressure tanks. 4,637,435, 1-20-87, Cl. 138-30.000.

Chirgwin, John: *See—*

Rutter, William J.; Pictet, Raymond; Chirgwin, John; Goodman, Howard M.; Ullrich, Axel; and Shine, John, 4,652,525, Cl. 435-253.000.

Chirico, George: *See—*

Herman, John; and Chirico, George, 4,698,585, Cl. 324-66.000.

Chiron Corporation: *See—*

Kuo, George; Masiarz, Frank R.; Truett, Martha; Valenzuela, Pablo; Rasmussen, Mirella E.; and Favaloro, Jennifer, 4,716,117, Cl. 435-240.270.

Chiron, Guy; and Vidal, Jean-Charles, to Commissariat a l'Energie Atomique. Device for automatically compensating the magnetism of drill string members. 4,649,349, 3-10-87, Cl. 324-346.000.

Chiron, Guy; and Dumont, Andre, to Commissariat a l'Energie Atomique. Gradient meter with thin magnetic layer. 4,703,266, 10-27-87, Cl. 324-249.000.

Chiron-Werke GmbH: *See—*

Rutschle, Eugen; and Winkler, Hans-Henning, 4,642,875, Cl. 29-568.000.

Winkler, Hans-Henning; and Rutschle, Eugen, 4,683,638, Cl. 29-568.000.

Chisari, Frank: *See—*

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Chisholm, Bruce. Gutter cleaning tool. 4,640,540, 2-3-87, Cl. 294-55.000.

Chisholm, Donald P., Jr., to Specialty Equipment Corporation. Cage roll assembly. 4,696,392, 9-29-87, Cl. 198-836.000.

Chisholm, John P., to Sundstrand Data Control, Inc. Microwave landing system. 4,635,064, 1-6-87, Cl. 342-408.000.

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Chism, Samuel B., Jr., to Ford Aerospace & Communications Corporation. Ortho-linear imaging device. 4,682,235, 7-21-87, Cl. 358-212.000.

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Chisso Corporation: *See—*

Aoki, Kazuo; and Moteki, Tsutomu, 4,708,623, Cl. 425-202.000.

Asakuno, Hiroyoshi; Mori, Kinya; Suzuki, Kiyoaki; Nishida, Mamoru; Iwai, Kenji; Tamamushi, Masahiro; and Kawasaki, Teruo, 4,638,030, Cl. 524-536.000.

Goto, Yasuyuki; Ogawa, Tetsuya; and Sugimori, Shigeru, 4,695,398, Cl. 252-299.500.

Inoue, Hiromichi; Saito, Shinichi; Terashima, Kanetsugu; Inukai, Takashi; and Furukawa, Kenji, 4,676,925, Cl. 252-299.650.

Inoue, Hiromichi; Saito, Shinichi; Miyazawa, Kazutoshi; Inukai, Takashi; and Terashima, Kanetsugu, 4,689,176, Cl. 252-299.650.

Inoue, Hiromichi; Fukui, Masahiro; Goto, Yasuyuki; and Tokita, Susumu, 4,704,228, Cl. 252-299.630.

Isoyama, Toyoshiro; Ogawa, Tetsuya; and Sugimori, Shigeru, 4,680,137, Cl. 252-299.620.

Isoyama, Toyoshiro; Goto, Yasuyuki; Ogawa, Tetsuya; and Sugimori, Shigeru, 4,696,759, Cl. 252-299.620.

Kaneko, Chikara; and Sato, Masayuki, 4,672,132, Cl. 549-311.000.

Kitano, Kisei; Ogawa, Tetsuya; Furukawa, Yoshito; Yoshida, Naoyuki; Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; and Nigorikawa, Kazunori, 4,684,476, Cl. 252-299.610.

Kunimune, Kouichi; Kutsuzawa, Yoshiya; and Konotsune, Shiro, 4,656,238, Cl. 528-26.000.

Kunimune, Kouichi; Kutsuzawa, Yoshiya; and Konotsune, Shiro, 4,672,099, Cl. 528-26.000.

Motegi, Tsutomu; Aoki, Kazuo; and Kimura, Kazuhiro, 4,687,793, Cl. 523-200.000.

Nakano, Takaharu; and Ohtake, Nobumasa, 4,658,049, Cl. 556-437.000.

Nigorikawa, Kazunori; Kitano, Kisei; Sugimori, Shigeru; and Ogawa, Tetsuya, 4,668,425, Cl. 252-299.610.

Ogawa, Tetsuya; Kitano, Kisei; Goto, Yasuyuki; Fukui, Masahiro; and Sugimori, Shigeru, 4,640,795, Cl. 252-299.500.

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Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; and Nigorikawa, Kazunori, 4,654,162, Cl. 252-299.630.

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Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; and Nigorikawa, Kazunori, 4,661,283, Cl. 252-299.630.

Sugimori, Shigeru; Ogawa, Tetsuya; Goto, Yasuyuki; Isoyama, Toyoshiro; Nigorikawa, Kazunori; Kitano, Kisei; Yoshida, Naoyuki; and Furukawa, Yoshito, 4,673,529, Cl. 252-299.630.

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Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; Nigorikawa, Kazunori; Ogawa, Tetsuya; Kitano, Kisei; Yoshida, Naoyuki; and Furukawa, Yoshito, 4,684,478, Cl. 252-299.630.

Sugimori, Shigeru, 4,686,305, Cl. 560-75.000.

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Tabata, Nobuchika; and Fukumitsu, Shohji, 4,710,317, Cl. 252-609.000.

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Chisso Engineering Company Ltd.: *See—*

Ando, Masao; and Iwasaki, Akito, 4,645,912, Cl. 219-541.000.

Chistoserdov, Andrei J.: *See—*

Debabov, Vladimir G.; Tsygankov, Jury D.; Chistoserdov, Andrei J.; Sverdlov, Evgeny D.; Izotova, Lara S.; Kostrov, Sergei V.; Sterkin, Viktor E.; Kuznetsov, Vladimir P.; Belyaev, Sergei V.; Monastyrskaya, Galina S.; Salomatina, Irina S.; Dolganov, Grigory M.; Arsenian, Sergei G.; Tsarev, Sergei A.; Kozlov, Jury I.; Strongin, Alexandr Y.; Ogarkov, Vsevolod I.; and Ovchinnikov, Jury A., 4,680,260, Cl. 435-68.000.

Chiswell, David J., to Amersham International plc. Detecting polynucleotide sequences. 4,716,106, 12-29-87, Cl. 435-6.000.

Chitjian, John R., to Clements National Company. Recirculating sandblasting machine. 4,646,482, 3-3-87, Cl. 51-424.000.

Chito, Yasuo; and Ogawa, Masahiko, to Canon Kabushiki Kaisha. Rotation phase control device. 4,695,778, 9-22-87, Cl. 318-314.000.

Chitre, Sanjeev R.; and Minaee, Behrooz, to Superwave Technology, Inc. Conveyorized microwave heating system. 4,687,895, 8-18-87, Cl. 219-10.55A.

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Weaver, Charles S.; and Chittenden, Constance T., 4,649,929, Cl. 128-680.000.

Chittineni, Chittibabu, to Conoco Inc. Edge and line detection in multidimensional noisy, imagery data. 4,648,120, 3-3-87, Cl. 382-54.000.

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Olsen, Everett O.; Gilby, Anthony C.; Chitty, Gordon W.; and Westcott, Vernon C., 4,669,316, Cl. 73-702.000.

Chitwood, Donald P.: *See—*

Miller, Lawrence J.; and Chitwood, Donald P., 4,677,340, Cl. 315-10.000.

Chiu, Albert P.: *See—*

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Chiu, Andrew. Method and an apparatus for validating the electronic encoding of an ideographic character. 4,689,743, 8-25-87, Cl. 364-419.000.

Chiu, Anthony M.; Allison, Mark D.; Jones, James W.; Trammell, Lyndale A.; and San Ho, Fock, to Texas Instruments Incorporated. Apparatus for testing a plurality of integrated circuits in parallel. 4,639,664, 1-27-87, Cl. 324-73.0AT.

Chiu, Chui-Wen. Domestic electric kiln. 4,692,593, 9-8-87, Cl. 219-362.000.

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Clark, Robin; Muchowski, Joseph M.; Chiu, Fang-Ting; Gardner, John O.; and Berger, Jacob, 4,667,038, Cl. 546-145.000.

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Chiu, Hin; and Hall, Johnce E., to Amoco Corporation. Terminator assembly for a floating structure. 4,701,076, 10-20-87, Cl. 405-224.000.

Chiu, Horn-Ming; and Rei, Min-Hon, to Industrial Technology Research Institute. Process and catalyst for the conversion of cyclohexanol to cyclohexanone. 4,670,605, 6-2-87, Cl. 568-361.000.

Chiu, John S.: *See—*

Jenkins, John K.; Chiu, John S.; Eckhart, Charles G.; McNamara, Paul E.; Rosenhouse, Stanley; and Youngstrom, Richard E., 4,634,556, Cl. 540-310.000.

Chiu, Kai F., to B.I. Industries, Inc. Multi-ply paper forming fabric wit ovate warp yarns in lowermost ply. 4,705,601, 11-10-87, Cl. 162-348.000.

Chiu, Ming-Yee; and Devinney, Edward J., Jr., to Siemens Corporate Research & Support, Inc. Optical system for inspecting printe circuit boards wherein a ramp filter is disposed between reflecte beam and photodetector. 4,677,302, 6-30-87, Cl. 250-560.000.

Chiu-Rong, Wuu. Portable cigarette safety ash tube and extinguisher 4,682,611, 7-28-87, Cl. 131-256.000.

Chiu, Shiu-Chu: *See—*

Chan, Vincent S.; Chiu, Shiu-Chu; and Ohkawa, Tihiro, 4,688,22 Cl. 372-2.000.

Perkins, Francis W., Jr.; Chiu, Shiu-Chu; Parks, Paul; and Rawl John M., 4,661,304, Cl. 376-123.000.

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Nyilas, Emery; and Chiu, Tin-Ho, 4,670,286, Cl. 427-2.000.

Chiulli, Carl A., to Polaroid Corporation. Method for forming microporous filter. 4,652,412, 3-24-87, Cl. 264-49.000.

Chivas Products Limited: *See—*

Moore, Ronald D.; Kavanaugh, James D.; Phelps, Richard A.; and Howard, Michael C., 4,686,741, Cl. 16-112.000.

Chivens, Donald R.; and Greskovics, Paul, to Alopex Industries, Inc. Fixture and method for making spiral wound hose. 4,714,50 12-22-87, Cl. 156-195.000.

Chiyoda, Kiyomu: *See—*

Nagashima, Sumio; Suzuki, Etsuji; Chiyoda, Kiyomu; and Kodama Masahiro, 4,644,584, Cl. 382-34.000.

Chiyoma, Hitoshi; Watanabe, Zensaku; and Nakagawa, Masahiro, to Kabushiki Kaisha Toshiba. Image sensor with means to adjust capac tance of signal leads. 4,679,088, 7-7-87, Cl. 358-213.180.

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Sakashita, Wataru; Chiyoya, Tsukasa; Ichikawa, Tsutomu; and Hayano, Makoto, 4,645,437, Cl. 418-55.000.

Chizallet, Pierre J.; Drevet, Jean C.; Monnatte, Henri J.; Meillant, Hen P.; and Taillandier, Yves J., to Etat Francais. Dosimeter-radiameter and method for measuring the dose flow of ionizing radianc 4,672,544, 6-9-87, Cl. 364-414.000.

Chizat, Francois; and Chaussabel, Bernard, to Rhone-Poulenc Specialites Chimiques. Noncrystallizable single-component organopoly loxane compositions. 4,672,004, 6-9-87, Cl. 428-447.000.

Chizek, Michael, to Contour Chair-Lounge Co., Inc. Adjustable chai 4,678,231, 7-7-87, Cl. 297-329.000.

Chizever, Gary E.: *See—*

Goff, Jerry K.; and Chizever, Gary E., 4,697,125, Cl. 318-254.00

Chlanda, Frederick P.: *See—*

Mani, Krishnamurthy N.; and Chlanda, Frederick P., 4,636,289, C 204-182.400.

Chlebowski, Jan F.; and Roberts, Catherine H., to Research Corporation. Modified alkaline phosphatase. 4,650,760, 3-17-87, Cl. 435-7.00

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Chloe Chimie: *See—*

Erard, Francois; le Garff, Patrick; and Soussan, Solomon 4,670,538, Cl. 528-486.000.

Chloride Silent Power Ltd.: *See—*

MacLachlan, Stuart; and O'Neill Bell, Christopher, 4,638,555, C 29-623.100.

Chlorine Engineers Corp. Ltd.: *See—*

Kumagai, Isao; Kataoka, Makoto; and Kinoshita, Yuji, 4,663,01 Cl. 204-296.000.

Yamamoto, Shinichiro; Sudo, Shigeki; and Ohmizu, Tsuyoshi 4,654,135, Cl. 204-269.000.

Chludil, Steven T. Multiply glazed window and door assemblies with screened breathing passages. 4,656,803, 4-14-87, Cl. 52-304.000.

Chludzinski, Paul J.: *See—*

McElroy, James F.; Chludzinski, Paul J.; and Dantowitz, Philip 4,657,829, Cl. 429-19.000.

Chlumecky, Wayne E.; Cryder, John H.; Colombo, Robert A.; and Spenk, Robert E., to General Motors Corporation. Railway locomotive brake control system. 4,660,895, 4-28-87, Cl. 303-75.000.

Chmela, Frank: *See—*

Funcik, Jack F.; Kolanowski, Clarence; Nugarus, Anthony R. Pellegrino, Thomas P.; and Chmela, Frank, 4,653,183, C 29-759.000.

Chmela, Frank P.: *See—*

Szumierz, Anthony J.; and Chmela, Frank P., 4,660,279, C 29-747.000.

Chmelir, Miroslav; Dahmen, Kurt; Hoffman, Georg; and Werner Georg. Absorbents for blood and serous body fluids. 4,693,71 9-15-87, Cl. 604-368.000.

Chmelir, Miroslav: *See—*

Barthell, Eduard; Capelle, Anthony; Chmelir, Miroslav; and Dahmen, Kurt, 4,663,491, Cl. 585-3.000.

Chmiel, Steven F.: *See—*

Wrege, Richard A.; Chmiel, Steven F.; and Murn, Victor A. 4,670,697, Cl. 318-786.000.

Chmurny, Alan B.; Gross, Akiva T.; Kupper, Robert J.; and Roberts Rowena L., to W. R. Grace & Co. Dipeptides and process. 4,710,58 12-1-87, Cl. 560-40.000.

Cho, Alfred Y.: *See*—

Capasso, Federico; Cho, Alfred Y.; Hutchinson, Albert L.; and Mohammed, Khalid, 4,679,061, Cl. 357-4.000.

Capasso, Federico; and Cho, Alfred Y., 4,686,550, Cl. 357-16.000.

Cho, Cheng-Hsiung. Adjustable sweat-absorbing pillow. 4,649,582, 3-17-87, Cl. 5-434.000.

Cho, Chu Hwan; and Lee, Gong In. Filter manufacturing method for the production of pre-filters to remove harmful substances in cigarette smoke by use of pine needles. 4,636,182, 1-13-87, Cl. 493-39.000.

Cho, Frederick Y.; Hickernell, Fred S.; and Richard, Fred V., to Motorola, Inc. Method for making optical channel waveguides and product manufactured thereby. 4,652,290, 3-24-87, Cl. 65-31.000.

Cho, Frederick Y.; and Hickernell, Fred S., to Motorola, Inc. Passivated and low scatter acoustic wave devices and method thereof. 4,686,111, 8-11-87, Cl. 427-38.000.

Cho, Frederick Y.: *See*—

Richard, Fred V.; Hickernell, Fred S.; and Cho, Frederick Y., 4,701,008, Cl. 350-96.120.

Cho, Frederick Y. T.: *See*—

Hickernell, Frederick S.; Adamo, Michael D.; and Cho, Frederick Y. T., 4,668,909, Cl. 324-56.000.

Cho, George E. S.; and Kessler, Stephen B., to Kontron Inc. Balloon catheter wrapping apparatus. 4,681,092, 7-21-87, Cl. 128-1.00D.

Cho, Gyu-Hyeong, to Westinghouse Electric Corp. Precommutated current source inverter. 4,707,777, 11-17-87, Cl. 363-138.000.

Cho, Gyu-Hyeong, to Westinghouse Electric Corp. Fault-protection apparatus for static AC-to-AC converters and unrestricted frequency changer (UFC) system including such fault-protection apparatus. 4,642,747, 2-10-87, Cl. 363-54.000.

Cho, Hee: *See*—

Frank, Dieter; and Cho, Hee, 4,677,208, Cl. 548-215.000.

Cho, Hidetsura; Aisaka, Kazuo; and Emon, Mariko, to Suntory Limited. 3N-substituted 3,4-dihydropyrimidines as agents for treating disorders of cardiovascular system. 4,640,922, 2-3-87, Cl. 514-256.000.

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Cho, Ko D.: *See*—

Jung, Il N.; Cho, Ko D.; Lim, John C.; and Yoo, Bok-Ryul, 4,701,430, Cl. 502-62.000.

Cho, Masamichi: *See*—

Tomohisa, Kunio; and Cho, Masamichi, 4,660,082, Cl. 358-163.000.

Tomohisa, Kunio; Cho, Masamichi; and Kurusu, Yasuo, 4,672,463, Cl. 358-284.000.

Tomohisa, Kunio; Maeda, Kiyoshi; and Cho, Masamichi, 4,691,241, Cl. 358-293.000.

Tomohisa, Kunio; Cho, Masamichi; and Kurusu, Yasuo, 4,712,141, Cl. 358-280.000.

Michio, to Fuji Photo Film Co., Ltd. Wide-angle photographic ens 4,691,996, 9-8-87, Cl. 350-465.000.

Myong J.: *See*—

Lin, Santa H. C.; and Cho, Myong J., 4,642,238, Cl. 426-74.000.

Myung H. Pivotal skipping rope handles having spring resistance. 4,714,245, 12-22-87, Cl. 272-75.000.

Shoji, to Life Environment Research Laboratories. Circular porting article. 4,690,401, 9-1-87, Cl. 272-137.000.

Soo S., to Macho Products, Inc. Protective thigh and knee gear. 4,697,286, 10-6-87, Cl. 2-22.000.

Soo S., to Macho Products, Inc. Protective headgear. 4,706,305, 11-17-87, Cl. 2-425.000.

Toshitsura: *See*—

Shimizu, Shumpei; Cho, Toshitsura; and Yagi, Osamu, 4,634,509, Cl. 204-182.400.

Yu H. Process for coloring granite. 4,695,487, 9-22-87, Cl. 427-294.000.

ate, Paul V.; and Woodburn, Robert W., to N I Industries. Front ght for projectile launchers. 4,689,910, 9-1-87, Cl. 42-100.000.

ate, William C., to Texas Instruments Incorporated. Method and pparatus for detecting edge spectral features. 4,685,143, 8-4-87, Cl. 382-25.000.

ay, Jean: *See*—

Audibert, Francoise; Carelli, Claude; Chedid, Louis; Lefrancier, Pierre; Level, Michel; and Choay, Jean, 4,639,512, Cl. 530-313.000.

Goulay, Jean; Choay, Jean; and Duclos, Jean-Pierre, 4,652,555, Cl. 514-56.000.

Krueger, James M.; Pappenheimer, John R.; Karnovsky, Manfred L.; Lefrancier, Pierre; Choay, Jean; Chedid, Louis; and Lederer, Edgar, 4,698,330, Cl. 514-19.000.

Lefrancier, Pierre; Parant, Monique; Audibert, Francoise; Chedid, Louis; Choay, Jean; and Lederer, Edgar, 4,693,998, Cl. 514-62.000.

Lormeau, Jean-Claude; and Choay, Jean, 4,686,288, Cl. 536-21.000.

Lormeau, Jean-Claude; Goulay, Jean; and Choay, Jean, 4,692,435, Cl. 514-56.000.

y, Patrick: *See*—

Fournier, Jean-Paul; and Choay, Patrick, 4,714,700, Cl. 514-229.000.

y S.A.: *See*—

Fournier, Jean-Paul; and Choay, Patrick, 4,714,700, Cl. 514-229.000.

Goulay, Jean; Choay, Jean; and Duclos, Jean-Pierre, 4,652,555, Cl. 514-56.000.

Lormeau, Jean-Claude; Goulay, Jean; and Choay, Jean, 4,692,435, Cl. 514-56.000.

Vairel, Edmond G.; Brouty-Boye, Huguette; Toulemonde, Francis; and Doutremepuich, Christian, 4,687,765, Cl. 514-56.000.

Choby, Edward J.: *See*—

Kapoor, Anoop; Choby, Edward J.; Kramer, Thomas J.; Rameri, James E.; Roth, Charles H., Jr.; Scheffer, Donald E.; Spehar, John E., Jr.; Bessko, Csaba; and Blumstein, Robert M., 4,715,111, Cl. 29-723.000.

Chocolate Pix, Inc.: *See*—

Newsteder, Robert, 4,668,521, Cl. 426-87.000.

Chodkowski, Jean C., administrator: *See*—

Chodkowski, Michael R., deceased, 4,664,629, Cl. 433-228.100.

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Choe, Eui W.; Buckley, Alan; and Garito, Anthony F., to Celanese Corporation. Quinodimethane compositions. 4,640,800, 2-3-87, Cl. 260-396.00N.

Choe, Eui W.; Khanarian, Garo; and Garito, Anthony F., to Celanese Corporation. Organic nonlinear optical media. 4,659,177, 4-21-87, Cl. 350-96.340.

Choe, Eui W.; Buckley, Alan; and Garito, Anthony F., to Celanese Corporation. Quinodimethane compositions. 4,667,042, 5-19-87, Cl. 548-300.000.

Choe, Eui W., to Celanese Corporation. Thermoplastic polymers containing repeating hydrazide groups. 4,694,048, 9-15-87, Cl. 525-376.000.

Choe, Eui W., to Celanese Corporation. Novel diacetylenic and polydiacetylenic compositions. 4,703,096, 10-27-87, Cl. 526-248.000.

Choe, Eui W.; Buckley, Alan; and Garito, Anthony F., to Celanese Corporation. Naphthoquinodimethane compositions. 4,707,305, 11-17-87, Cl. 260-396.00N.

Choe, Eui W., to Hoechst Celanese Corporation. Novel diacetylenic and polydiacetylenic compositions. 4,711,532, 12-8-87, Cl. 350-354.000.

Choe, Eui W.: *See*—

Buckley, Alan; Choe, Eui W.; Stuetz, Dagobert E.; and Garito, Anthony F., 4,707,303, Cl. 252-583.000.

Choe, Jung S.; Auvil, Steven R.; and Agrawal, Rakesh, to Air Products and Chemicals, Inc. Process for separating components of a gas stream. 4,701,187, 10-20-87, Cl. 55-16.000.

Choffy, Jean-Pierre: *See*—

Lecuru, Daniel; and Choffy, Jean-Pierre, 4,640,133, Cl. 73-639.000.

Choi, Eun S.: *See*—

Uhm, Sung J.; Lee, Jae J.; Choi, Eun S.; and Yu, Dong W., 4,675,434, Cl. 560-99.000.

Choi, Hong-Kyun; and Tsaur, Bor-Yeu, to Massachusetts Institute of Technology. Process for making junction field-effect transistors. 4,700,461, 10-20-87, Cl. 437-41.000.

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Kim, Eui D.; and Choi, Hyun J., 4,716,469, Cl. 358-245.000.

Choi, Jae H.; Kanotz, William M.; and Vesperman, William C., to AT&T Technologies, Inc.; and Bell Telephone Laboratories Inc. Insulating material for telephone cords and telephone cords incorporating same. 4,656,091, 4-7-87, Cl. 428-383.000.

Choi, Jae H.; Kanotz, William M.; and Vesperman, William C., to AT&T Technologies Inc.; and AT&T Bell Laboratories. Extrudable blend. 4,705,823, 11-10-87, Cl. 524-474.000.

Choi, Jei C. Therapeutic heating apparatus. 4,657,531, 4-14-87, Cl. 604-23.000.

Choi, Jung W. Electrode holder for electric discharge processing machines. 4,713,515, 12-15-87, Cl. 219-69.00E.

Choi, Kwangwoo; and Roberts, Stanley, to International Business Machines Corporation. Salicide process for forming low sheet resistance doped silicon junctions. 4,663,191, 5-5-87, Cl. 427-93.000.

Choi, Moo W.: *See*—

Yoo, Jae K.; and Choi, Moo W., 4,653,804, Cl. 297-159.000.

Choi, Seung E.: *See*—

Kim, Ho K.; and Choi, Seung E., 4,679,407, Cl. 62-294.000.

Choi, Wai M.: *See*—

Giovannoni, Richard T.; Kung, James K. J.; and Choi, Wai M., 4,699,857, Cl. 429-204.000.

Choiniere, Alcide W.; and Dunn, George T., Jr., to Automation Industries, Inc. Current-carrying flexible hose. 4,693,324, 9-15-87, Cl. 174-47.000.

Choiniere, Remi. Suction device. 4,694,529, 9-22-87, Cl. 15-393.000.

Choinski, Edward J., to MultiTek Corporation. Apparatus and method for temporarily sealing holes in printed circuit boards. 4,700,474, 10-20-87, Cl. 29-846.000.

Chojoha Giken Kabushiki Kaisha: *See*—

Akazawa, Hozumi; and Muto, Kentaro, 4,643,824, Cl. 210-167.000.

Chokai, Shoichi: *See*—

Enomoto, Hiroshi; Nomura, Tadatoshi; Aoyagi, Yoshiaki; Chokai, Shoichi; Fujita, Yukio; Kono, Tatsuhiko; Murase, Masao; Inoue, Kichiro; and Adachi, Masahiro, 4,711,898, Cl. 514-312.000.

Choksi, Pradip V. Incentive spirometer employing bellows air flow sensor. 4,635,647, 1-13-87, Cl. 128-728.000.

Choksi, Pradip V., to SpaceLabs Inc. Gas sampling apparatus for capnography. 4,677,987, 7-7-87, Cl. 128-719.000.

Cholet, Georges, to Societe Nationale d'Exploitation Industrielle des Tabacs et Allumettes. Apparatus for measuring the flow-pressure characteristics of the gas passing through a product sample having two faces. 4,651,557, 3-24-87, Cl. 73-38.000.

Cholin, Jeffrey G.: *See—*

Cholin, John M.; Cholin, Jeffrey G.; and Voorhis, Ray, 4,712,096, Cl. 340-590.000.

Cholin, John M.; Cholin, Jeffrey G.; and Voorhis, Ray, to Firetek Corporation. Condition responsive detection system and method. 4,712,096, 12-8-87, Cl. 340-590.000.

Cholkeri, Pandu R., to Ranco Incorporated. Multiple disc pressure responsive control device. 4,667,069, 5-19-87, Cl. 200-83.00P.

Cholley, Jean-Marie, to Produits Chimiques Ugine Kuhlmann. Desizing and bleaching woven fabrics in a single operation in a bath based on sodium chlorite. 4,643,736, 2-17-87, Cl. 8-108.100.

Chollock, Ronald: *See—*

Joseph, James R.; Wesdock, James F.; Lerch, Allen; Chollock, Ronald; Waugaman, John; Lindberg, Glenn; Wymer, James R.; and Brennen, Brad, 4,655,349, Cl. 209-524.000.

Cholnoky, Eszter: *See—*

Ezer, Elemer; Harsanyi, Kalman; Vikar nee Petho , Hajnalka; Matuz, Judit; Szporny, Laszlo ; Cholnoky, Eszter; Kuthi, Osaba; Trischler, Ferenc; Hegedus, Bela; Kapolnas nee Pap, Marta; and Kallay nee Sohonyai, Anna, 4,691,017, Cl. 546-298.000.

Ezer, Elemer; Harsanyi, Kalman; Petho, Hajnalka V.; Matuz, Judit, Szporny, Laszlo; Cholnoky, Eszter; Kuthi, Csaba; Trischler, Ferenc; Hegedus, Bela; Kapolnas, Marta; and Kallay, Anna, 4,713,388, Cl. 514-346.000.

Choma, Alvin A.; and Edwards, Timothy R., to Tractech, Inc. Differential apparatus with side-gear-centered center cam. 4,644,818, 2-24-87, Cl. 74-650.000.

Choma, Michael A., to Ford Motor Company. EGR control system. 4,693,226, 9-15-87, Cl. 123-568.000.

Chomerics, Inc.: *See—*

Tzeng, Wen-Shian V., 4,678,716, Cl. 428-551.000.

Chomet, Marc, to Telecue Systems. Transactional telecommunication system. 4,645,873, 2-24-87, Cl. 379-93.000.

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Swartzendruber, Ray E., 4,667,623, Cl. 119-52.0AF.

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Chorneau, Frederick R. Method for stretch forming drop hammer parts utilizing stretch wrap forming techniques. 4,698,995, 10-13-87, Cl. 72-297.000.

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Fleming, Hubert L.; Edd, Jon F.; Pearson, Alan; Chou, Chin-Liang; Kono, Hisashi O.; and Huang, Ching-Chung, 4,704,1 Cl. 502-355.000.

Chou, David T.; and Ligon, Robert C., to Union Carbide Corporation. Pesticidal biphenylyloxy and biphenylylalkoxy aryl acyl urea compounds. 4,638,088, 1-20-87, Cl. 564-23.000.

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Chou, Hsu C.; Wu, Jeef; and Chang, John. Anti-wind raincoat. 4,712,252, 12-15-87, Cl. 2-87.000.

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Chou, Lung-Chiao. Disposable container. 4,694,986, 9-22-87, Cl. 229-41.00R.

Chou, Peter. Jack safety device. 4,635,902, 1-13-87, Cl. 254-8.00B.

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Chou, Richard T., to Dow Chemical Company, The. Vinyloxazoline monomer and preparation thereof. 4,709,039, 11-24-87, Cl. 548-237.000.

Chou, Robert V., to General Electric Company. Appliance anti-tip system. 4,669,695, 6-2-87, Cl. 248-500.000.

Chou, Shine K., to Monsanto Company. Amine oxidation using carbon catalyst having oxides removed from surface. 4,696,772, 9-29-87, Cl. 260-502.50F.

Chou, Stephen Y., to Massachusetts Institute of Technology. Quantum tunneling cantilever accelerometer. 4,638,669, 1-27-87, Cl. 73-517.00R.

Chou, Ta-Chin. Cassette type cleaning device for the cleaning of playing/recording head, erasing head, and capstan/pinch roller. 4,713,712, 12-15-87, Cl. 360-128.000.

Chou, Ta-Sen; and Heath, Perry C., to Eli Lilly and Company. Cephalosporin intermediate. 4,665,168, 5-12-87, Cl. 540-224.000.

Chou, Tai-Sheng, to Mobil Oil Corporation. Injection of LPG into TCC unit. 4,640,763, 2-3-87, Cl. 208-78.000.

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Chou, Yung-Sen, to Armco Inc. Wellhead body lockdown and method for engaging same. 4,697,828, 10-6-87, Cl. 285-18.000.

Chouery, Farid A. Method for determining whether a given value is included in an ordered table of values stored in a computer readable memory. 4,674,039, 6-16-87, Cl. 364-300.000.

Chouinard, Michael J. Method and apparatus for disassembly of a spot-welded structure. 4,644,656, 2-24-87, Cl. 30-362.000.

Chouinard, Michael J. Hand tightenable device for holding a cutting implement. 4,660,841, 4-28-87, Cl. 279-61.000.

Choung, Moon: *See—*

Weiner, Jerome; and Choung, Moon, 4,702,508, Cl. 294-101.000.

Choushi, Masahiro; and Hiraoka, Shin, to Mazda Motor Corporation. Engine construction. 4,643,137, 2-17-87, Cl. 123-52.0MV.

Chovich, Milija M. Projectile. 4,682,546, 7-28-87, Cl. 102-529.000.

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Chow, Che C., to Xerox Corporation. Liquid development system. 4,686,936, 8-18-87, Cl. 118-661.000.

Chow, Edward Y.; and Kleinberg, Robert L., to Schlumberger Technology Corporation. Fracture detection using circumferential offset acoustic paths. 4,641,724, 2-10-87, Cl. 181-104.000.

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Chow, Hector; Melling, Hugh; and Schieltz, Denise S., to Senmed, Inc. Surgical stapling instrument with jaw clamping mechanism. 4,633,861, 1-6-87, Cl. 128-305.000.

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Chow, Li Hang; Fawzi, Mahdi B.; and Ghebre-Sellassie, Isaac, to Warner-Lambert Company. Drug stabilization. 4,687,776, 8-18-87, Cl. 514-312.000.

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  Strosser, Richard P.; Bohman, Carl E.; and Chow, Mark K., 4,639,666, Cl. 324-202.000.

Chow, Min-Shine: *See—*
  Larock, Richard C.; and Chow, Min-Shine, 4,664,765, Cl. 204-157.750.

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Chow, Pei-Ming D., and Chi, Keh-Fei C., to Rockwell International Corporation. Dimension monitoring technique for semiconductor fabrication. 4,639,142, 1-27-87, Cl. 356-372.000.

Chow, Philip Y., to T. Y. Lin International. Prestressed concrete pressure vessel and method for making such a vessel. 4,702,052, 10-27-87, Cl. 52-224.000.

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how, Shing C. Display device with discharge lamp. 4,645,979, 2-24-87, Cl. 315-169.100.

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  McAlpin, James J.; and Chow, Wai Y., 4,710,540, Cl. 525-101.000.

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R Industries, Inc.: *See—*
  Agarwal, Arun K.; and Balian, Charles, 4,693,920, Cl. 428-40.000.

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etien, Jean-Basile, to AG-JBC (Sarl). Method for modifying the surface state of materials. 4,684,548, 8-4-87, Cl. 427-197.000.

s Development Corporation: *See—*
  Winkler, George C., 4,662,634, Cl. 273-73.00G.

se, James R.: *See—*
  Boyle, David E.; and Chrise, James R., 4,637,914, Cl. 376-35_.000.
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sman, Ray W.; McLachlan, Richard D.; and Harner, Richard S., to w Chemical Company, The. Method for determining the onset of stallization. 4,672,218, 6-9-87, Cl. 250-574.000.

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  McLachlan, Richard D.; and Chrisman, Ray W., 4,643,573, Cl. 356-338.000.

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  rover, George M.; and Chrisman, Robert H., 4,640,347, Cl. 165-104.260.

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Christe, Karl O., to Rockwell International Corporation. Process for the production of advanced NF_4^+ salts. 4,683,129, 7-28-87, Cl. 423-351.000.

Christe, Karl O., to Rockwell International Corporation. Method for the selective separation of gases. 4,695,296, 9-22-87, Cl. 55-68.000.

Christe, Karl O., to Rockwell International Corporation. Pure fluorine gas generator. 4,711,680, 12-8-87, Cl. 149-109.400.

Christe, Karl O.: *See—*
  Schack, Carl J.; and Christe, Karl O., 4,675,088, Cl. 204-157.940.

Christen, Daniel G.: *See—*
  Hartley, Quentin J. S.; and Christen, Daniel G., 4,702,417, Cl. 239-98.000.

Christen, Incorporated: *See—*
  Christen, Louis J., Jr.; and Glass, Henry P., 4,665,888, Cl. 126-25.00R.

Christen, Jimmie D.: *See—*
  Booth, Llewellyn D.; Christen, Jimmie D.; and Clarke, William D., 4,704,410, Cl. 521-166.000.

Christen, Louis J., Jr.; and Glass, Henry P., to Christen, Incorporated. Serving table for kettle-type barbecue cooker. 4,665,888, 5-19-87, Cl. 126-25.00R.

Christen, Marie-Odile: *See—*
  Jasserand, Daniel; Christen, Marie-Odile; Biard, Dominique; and Yavordios, Dimitri, 4,672,063, Cl. 514-252.000.

Christensen, Alton O. Field emission device. 4,663,559, 5-5-87, Cl. 313-336.000.

Christensen, Burton G.; DiNinno, Frank P.; Leanza, William J.; and Ratcliffe, Ronald W., to Merck & Co., Inc. 6-(1-hydroxyethyl)-2-carbamimidoyl-pen-2-em-3-carboxylic acids. 4,650,794, 3-17-87, Cl. 514-210.000.

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Christensen, Burton G.; and Ratcliffe, Ronald W., to Merck & Co., Inc. Process for preparing carbapenem compounds. 4,707,547, 11-17-87, Cl. 540-310.000.

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  Shibahara, Seiji; Okonogy, Tsuneo; Murai, Yasushi; Fukatsu, Shunzo; Niida, Taro; Christensen, Burton G.; and Wakazawa, Tadashi, 4,645,769, Cl. 514-210.000.

Christensen, Carol S., to International Business Machines Corp. Attachment of lines to objects in interactive draw graphics. 4,663,616, 5-5-87, Cl. 340-724.000.

Christensen, Daniel C.: *See—*
  Brownell, David J.; Christensen, Daniel C.; Erie, David G.; and Youngner, Daniel, 4,642,162, Cl. 156-643.000.

Christensen, Dean L.: *See—*
  Georgens, Harold H.; and Christensen, Dean L., 4,635,155, Cl. 360-132.000.
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Christensen, Finn N.; Jensen, Jens R.; and Bechgaard, Helle, to A/S Alfred Benzon. Composition and method for investigating alimentary functions. 4,657,755, 4-14-87, Cl. 424-1.100.

Christensen, Finn N.: *See—*
  Kjornaes, Kim; Christensen, Finn N.; and Jensen, Jens R., 4,716,041, Cl. 424-468.000.

Christensen, Joel R.; Liang, Paul H.; and Thompson, Mark E., to Du Pont de Nemours, E. I., and Company. Herbicidal sulfonamides. 4,685,955, 8-11-87, Cl. 71-92.000.

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Christensen, John A.: *See—*
  Blacker, Allen P., Jr.; Christensen, John A.; and Garewal, Khem K. S., 4,704,565, Cl. 315-382.000.

Christensen, John F. Disposable tube for rectal injection of drugs. 4,704,104, 11-3-87, Cl. 604-205.000.

Christensen, John M., to Scan-Web I/S. Method and an apparatus for embossing a dry laid fibre web, e.g. for kitchen roll paper. 4,668,322, 5-26-87, Cl. 756-209.000.

Christensen, Jon B., to Halliburton Company. Bundle type downhole gauge carrier. 4,711,123, 12-8-87, Cl. 73-151.000.

Christensen, Sherwood D., to Montana Power Company. Tool for high voltage transmission lines. 4,670,956, 6-9-87, Cl. 29-247.000.

Christenson, Robert J., to GMI Engineering & Management Institute. Cushion for a swing or the like and method for making same. 4,641,835, 2-10-87, Cl. 272-87.000.

Christenson, Roger M.; Rosenberger, Mary E.; and Tetenbaum, Marvin T., to PPG Industries, Inc. Aqueous composition comprising a phosphated epoxy and non-self dispersible resin. 4,638,020, 1-20-87, Cl. 523-406.000.

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McCollum, Gregory J.; Scriven, Roger L.; Christenson, Roger M.; Mauer, George W.; and Zwack, Robert R., 4,711,917, Cl. 523-400.000.

Palermo, Anthony C.; Christenson, Roger M.; and Mazza, Glenn L., 4,683,266, Cl. 525-123.000.

Piccirilli, Robert M.; Christenson, Roger M.; Falk, Frederick A.; and Makhlouf, Joseph M., 4,693,846, Cl. 260-97.000.

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Christenson, Thomas A.: *See—*

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Christenson, Thomas B. Method and construction of a cistern from component blocks and reinforcing rods. 4,656,800, 4-14-87, Cl. 52-248.000.

Christensson, Erik G.: *See—*

Bjork, Anders K.; and Christensson, Erik G., 4,656,175, Cl. 514-255.000.

Christian, Clifford N., to University of California, The Regents of the. Multiple assay card and system. 4,673,657, 6-16-87, Cl. 436-501.000.

Christian, Clifford N., to University of California, Regents of. Laminated rod having alternating detection and spacer layers for binding assays. 4,708,931, 11-24-87, Cl. 435-7.000.

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Christian Pfeiffer, Firma: *See—*

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Christian, Philip; and Tawse, Alan I., to Bridon plc. Method and equipment for making wire strands. 4,641,689, 2-10-87, Cl. 140-149.000.

Christian, Philip; and Walton, John M., to Bridon plc. Method and equipment for making stranded ropes. 4,655,033, 4-7-87, Cl. 57-11.000.

Christian, Ralph R., to Nooter Corporation. Process for attaching clad components and pressure vessel formed thereby. 4,688,691, 8-25-87, Cl. 220-3.000.

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Christiansen, David A.: *See—*

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Christiansen, Dieter H. C., to U.S. Philips Corporation. X-ray examination apparatus comprising a C-shaped or U-shaped support for the X-ray source and detector. 4,635,284, 1-6-87, Cl. 378-197.000.

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Christiansen, Hans A., to Hasle Klinger- & Chamottestensfabrik A/S. Pipe for use in systems for hot gases. 4,651,783, 3-24-87, Cl. 138-107.000.

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Christiansen, Robert G.; Bell, Malcolm R.; Herrmann, John L., Jr.; and Opalka, Chester J., Jr., to Sterling Drug Inc. Antiandrogenic sulfonylsteroidopyrazoles and processes for preparation, method of use and compositions. 4,684,636, 8-4-87, Cl. 514-176.000.

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Christiansen, Tyrone: *See—*

Beer, Rafael; and Christiansen, Tyrone, 4,681,415, Cl. 354-120.000.

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Ross, Dieter; Bonewitz, Hans-Ulrich; Christiansen, Uwe; Klein, Karl-Friedrich; Muhlich, Albert; Rau, Karlheinz; Ruffing, Wolfgang; Simmat, Fritz; Steinkohl, Anton; and Takke, Ralf, 4,676,814, Cl. 65-3.120.

Christianson, Leslie L.; Alcock, Ralph; Froehlich, Donell P.; and Hellickson, Mylo A. Electric tractor. 4,662,472, 5-5-87, Cl. 180-235.000.

Christianson, Leslie L.; Alcock, Ralph; Froehlich, Donell P.; and Chicoine, Kellen J. Skid-steer vehicle. 4,705,449, 11-10-87, Cl. 414-68.500.

Christianson, Paul O.; and McDonald, James M., to M.A.C., Inc. Total counterflow heat exchanger. 4,706,646, 11-17-87, Cl. 126-117.000.

Christianson, Tony. Mechanically expanding climbing aid. 4,643,377, 2-17-87, Cl. 248-1.000.

Christidis, Yani: *See—*

Gimenez, Isabelle; Barbier, Marie-Jeanne; Maximovitch, Suzanne; and Christidis, Yani, 4,692,226, Cl. 204-73.00R.

Christie, Alan E.: *See—*

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Christie, Howard W.: *See—*

Engel, James F.; Byerley, Thomas J.; and Christie, Howard W., 4,704,466, Cl. 558-411.000.

Christie, Kenneth H.: *See—*

Andersen, John E.; Barry, Robert L.; Christie, Kenneth H.; and Shea, Dennis J., 4,663,742, Cl. 365-189.000.

Christie, Larry L. Folding weight bench. 4,645,196, 2-24-87, Cl. 272-123.000.

Christie, Leonard F.: *See—*

Atherton, Jay W.; Castor, Raymond A.; Christie, Leonard F.; and Engerman, Robert C., 4,683,439, Cl. 330-10.000.

Christie, Leslie G., Jr.: *See—*

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Christie, Richard D.: *See—*

Gross, Anthony E.; Christie, Richard D.; and Pinder, Thomas E., 4,710,285, Cl. 209-166.000.

Christie, Robert M.: *See—*

Rickards, Rodney W.; Gill, Melvyn; and Christie, Robert M., 4,703,127, Cl. 549-214.000.

Christine, William, to Baxter Travenol Laboratories, Inc. Apparatus and method for attaching a fitment to a web of film. 4,695,337, 9-22-87, Cl. 156-69.000.

Christine, William C., to Trinity Foundation. Portable dispensing system. 4,711,373, 12-8-87, Cl. 222-82.000.

Christini, Roy A.; and Frizzell, Kenneth P., to Aluminum Company of America. Magnesium refining process. 4,695,320, 9-22-87, Cl. 75-67.00A.

Christini, Theodore P., to Du Pont de Nemours, E. I., and Company. Static resistant X-ray intensifying screens. 4,666,774, 5-19-87, Cl. 428-330.000.

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Christis, Wilhelmus J.: *See—*

Geerings, Michael P. W.; Christis, Wilhelmus J.; Fekkes, Wilhelmus F.; and Schmitz, Herman J. R., 4,697,046, Cl. 178-1.000.

Christman, David P.: *See—*

Hillis, W. Daniel; Knight, Thomas F., Jr.; Bawden, Alan; Kahle, Brewster L.; Chapman, David; Christman, David P.; Lasser, Cliff A.; and Feynman, Carl R., 4,709,327, Cl. 364-200.000.

Christman, Donald L., to BASF Corporation. Rigid polyurethane foams with constant or slightly decreasing strain with an increasing stress in compression. 4,664,563, 5-12-87, Cl. 405-288.000.

Christman, Marvin. Manual slide selector mechanism. 4,703,712, 11-3-87, Cl. 116-324.000.

Christmann, Karl-Friedrich: *See—*

Lenthe, Manfred; Allenbach, Udo; Buttner, Gerhard; and Christmann, Karl-Friedrich, 4,647,676, Cl. 549-462.000.

Christmas, Byron K.: *See—*

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Christner, Larry G.; and Koehler, Steven A., to Energy Research Corporation. Composite partial oxidizer and reformer. 4,716,023, 12-29-87, Cl. 422-149.000.

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Christodoulou, Marios: *See—*

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Christodouloa, Spiros, to Din Engineering Limited. Apparatus for the mechanical treatment of food product. 4,643,086, 2-17-87, Cl. 99-574.000.

Christodoulou, Spiros, to Din Engineering Limited. Reaction chamber conveyor. 4,712,312, 12-15-87, Cl. 34-57.00D.

Christoff, Paul B.; and Ausnit, Steven, to Minigrip, Incorporated. Method of and means for making reclosable bags and method therefor. 4,655,862, 4-7-87, Cl. 156-66.000.

Christoffel, Johannes, to Dihart AG. Reamer. 4,705,435, 11-10-87, Cl. 408-59.000.

Christol, James T.; Jacobs, Michael R.; and Berman, Herbert L., to Raytek, Inc. Hand-held digital temperature measuring instrument. 4,634,294, 1-6-87, Cl. 374-170.000.

Christopher, Earl H.: *See—*

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Christopher, Gilman G. Springloaded shutoff valve apparatus. 4,682,625, 7-28-87, Cl. 137-538.000.

Christopher, Lauren A., to RCA Corporation. Circuitry for complementing binary numbers. 4,709,226, 11-24-87, Cl. 340-347.0DD.

- Christopher, R. Keene: *See*—
  - Thomson, Donald W.; and Christopher, R. Keene, 4,644,014, Cl. 521-68.000.
- Christopher, T. Graham. Urinary catheter with collapsible urethral tube. 4,710,169, 12-1-87, Cl. 604-104.000.
- Christopher, Todd J.; Willis, Donald H.; and Fling, Russell T., to RCA Corporation. Timing correction for a picture-in-picture television system. 4,638,360, 1-20-87, Cl. 358-148.000.
- Christopher, Todd J., to RCA Corporation. Horizontal compression of pixels in a reduced-size video image utilizing cooperating subsampling and display rates. 4,656,515, 4-7-87, Cl. 358-183.000.
- Christopher, Todd J., to RCA Corporation. Digital delay interpolation filter with amplitude and phase compensation. 4,694,414, 9-15-87, Cl. 364-724.000.
- Christopher, Todd J.: *See*—
  - Fling, Russell T.; and Christopher, Todd J., 4,652,908, Cl. 358-37.000.
  - Fling, Russell T.; and Christopher, Todd J., 4,656,516, Cl. 358-183.000.
  - Willis, Donald H.; Fling, Russell T.; and Christopher, Todd J., 4,667,240, Cl. 358-167.000.
  - Willis, Donald H.; Fling, Russell T.; and Christopher, Todd J., 4,680,632, Cl. 358-166.000.
- Christophersen, David J., and Spiegelhoff, Steven P., to Milsco Manufacturing Company. Upholstered seat assembly and a one-piece seat and back shell of molded plastic therefor. 4,647,109, 3-3-87, Cl. 297-457.000.
- Christopherson, Kjell H.; Odelius, Tomas; Rosemeier, Friedrich; Stenberg, Kaj O.; Svensson, Tommy E.; and Killmaier, Horst, to Gambro Lundia AB. Coupling for the connection of flexible tubes and the like. 4,636,204, 1-13-87, Cl. 604-283.000.
- Christopulos, John A., to United States of America, Army. Interconnector device. 4,678,728, 7-7-87, Cl. 429-121.000.
- Christopulos, John A., to United States of America, Army. Dual battery connector arrangement. 4,681,821, 7-21-87, Cl. 429-121.000.
- Christy, Edmund H.; Rouquette, Robert E.; and Van Doren, Lawrence, to Offshore Navigation, Inc. High frequency spread spectrum positioning system and method therefor. 4,665,404, 5-12-87, Cl. 342-463.000.
- Christy, Kenneth G., and Cooper, Thomas F., to Xerox Corporation. Dual mode document handling apparatus. 4,664,509, 5-12-87, Cl. 355-75.000.
- Christy, Marcia E.: *See*—
  - Baldwin, John J.; Christy, Marcia E.; and Ponticello, Gerald S., 4,677,115, Cl. 514-432.000.
- Christy, Mark R., and Ecker, Ernest L., to Dow Chemical Company, The. Ultraviolet light-stable ignition resistant thermoplastic molding compositions. 4,714,729, 12-22-87, Cl. 524-281.000.
- Christy, Ronald S.: *See*—
  - Steele, Douglas W.; Nash, George S.; Dorsey, John W.; Christy, Ronald S.; and Burns, Timothy L., 4,692,290, Cl. 264-101.000.
- Chrobak, Michael J., and Evans, Doyle R., to Texas Instruments Incorporated. Low cost electronic apparatus construction method. 4,635,354, 1-13-87, Cl. 29-622.000.
- Chromalloy American Corporation: *See*—
  - Ainsworth, John H.; and Shepler, Robert E., 4,639,388, Cl. 428-117.000.
  - Revils, Ernest A.; Arboneaux, Emmet J., III; and Lirette, Brent J., 4,674,569, Cl. 166-154.000.
  - Westra, Lubbert; and Lirette, Brent J., 4,655,247, Cl. 137-519.500.
- Chromecek, Richard C.; Ogunbiyi, Lai; Riedhammer, Thomas M.; and Smith, Francis X., to Bausch & Lomb Incorporated. Contact lens cleaning composition with polymeric beads. 4,655,957, 4-7-87, Cl. 252-174.230.
- Chromecek, Richard C.: *See*—
  - Friends, Gary D.; Chromecek, Richard C.; and Yourd, Raymond A., III, 4,663,409, Cl. 526-242.000.
- Chromium Corporation: *See*—
  - Gary, Joseph V., 4,706,417, Cl. 51-319.000.
- Chronar Corp.: *See*—
  - Akhtar, Masud, 4,705,701, Cl. 427-110.000.
  - Delahoy, Alan E.; and Tonon, Thomas, 4,680,616, Cl. 357-59.000.
  - Delahoy, Alan E.; Dalal, Vikram L.; and Eser, Erter, 4,692,558, Cl. 136-258.000.
  - Ellis, Frank B., Jr.; and Delahoy, Alan E., 4,696,702, Cl. 437-83.000.
  - Ramaprasad, K. R., 4,695,331, Cl. 437-126.000.
  - Ramaprasad, Kackadasam R., 4,675,466, Cl. 136-244.000.
  - Van Dine, John, 4,705,698, Cl. 427-53.100.
  - Van Dine, John E.; Weakliem, Herbert A.; Kiss, Zoltan; and Delahoy, Alan E., 4,675,467, Cl. 136-249.000.
- Chronis, Constantine P.; and Chronis, Patrick F. Adjustable, locking seaming roller pin. 4,633,553, 1-6-87, Cl. 29-116.00R.
- Chronis, Patrick F.: *See*—
  - Chronis, Constantine P.; and Chronis, Patrick F., 4,633,553, Cl. 29-116.00R.
- Chronomarine AG: *See*—
  - Hefty, Bela, 4,662,009, Cl. 4-247.000.
- Chrubasik, Joachim; and Chrubasik, Sigrun, to CuraMED Pharma GmbH. Method of using somatostatin as an analgesic or an anesthetic. 4,670,418, 6-2-87, Cl. 514-11.000.
- Chrubasik, Sigrun: *See*—
  - Chrubasik, Joachim; and Chrubasik, Sigrun, 4,670,418, Cl. 514-11.000.
- Chrysler Motors Corporation: *See*—
  - Asmus, Thomas W., 4,674,460, Cl. 123-470.000.
  - Atkins, Walter J., Sr., 4,703,736, Cl. 123-519.000.
  - Berchem, Donald J.; and Meininger, James R., 4,711,088, Cl. 60-321.000.
  - Betterton, Joseph T.; and Glover, Alfred H., 4,643,026, Cl. 73-431.000.
  - Betterton, Joseph T.; and Glover, Alfred H., 4,678,362, Cl. 403-373.000.
  - Betterton, Joseph T.; and Glover, Alfred H., 4,685,332, Cl. 73-309.000.
  - Betterton, Joseph T.; Dykoski, Alan W.; Glover, Alfred H.; Lawless, Daniel F.; McKee, William D.; and Watson, Troy T., 4,706,707, Cl. 137-565.000.
  - Bien, Alfred A., 4,643,610, Cl. 403-407.100.
  - Bien, Alfred A., 4,657,460, Cl. 411-258.000.
  - Bien, Alfred A., 4,688,960, Cl. 403-285.000.
  - Bruck, Gary A., 4,657,292, Cl. 292-80.000.
  - Bruck, Gary A., 4,669,764, Cl. 292-85.000.
  - Candea, Cornell, 4,677,948, Cl. 123-192.00B.
  - Candea, Cornell; and Stach, Robert G., 4,703,724, Cl. 123-192.00B.
  - Carlson, Kenneth H., 4,645,268, Cl. 301-37.00S.
  - Crain, John E., 4,669,774, Cl. 296-136.000.
  - Dering, Timothy A., 4,687,316, Cl. 355-3.00R.
  - Eastman, Richard E.; and Varma, Sanjeev K., 4,650,028, Cl. 80-233.000.
  - Eastman, Richard E., and Williams, Randolph C., 4,677,873, Cl. 74-665.0GE.
  - Emmer, Eric D., 4,677,722, Cl. 29-156.50A.
  - Emmer, Eric D., 4,712,941, Cl. 403-151.000.
  - Filkins, Timothy J., 4,677,868, Cl. 74-359.000.
  - Fouchey, John W.; and Chamberlain, Thomas E., 4,679,327, Cl. 33-203.130.
  - Goulart, Joseph F., 4,674,760, Cl. 280-88.000.
  - Goulart, Joseph F., 4,705,145, Cl. 188-18.00A.
  - Harris, Gerald A.; and Schumacher, Thomas W., 4,709,306, Cl. 362-68.000.
  - Hassan, Morris, 4,681,304, Cl. 267-8.00R.
  - Heling, Dennis H., 4,639,038, Cl. 297-341.000.
  - Hermann, John T., 4,635,966, Cl. 285-3.000.
  - Hermann, John T., 4,640,535, Cl. 285-158.000.
  - Hlavach, Mark C., 4,695,084, Cl. 293-126.000.
  - Hlavach, Mark C., 4,700,977, Cl. 293-126.000.
  - Holdren, Earl J.; Owski, Alexander J.; and Fouts, Paul G., 4,707,823, Cl. 370-1.000.
  - Hormel, Ronald F., 4,677,754, Cl. 33-361.000.
  - Hoss, Donald A., 4,685,571, Cl. 206-583.000.
  - Hoss, Donald A., 4,699,280, Cl. 211-195.000.
  - Kaiser, David, 4,642,859, Cl. 24-669.000.
  - Kaminski, Les K.; and Sheffield, Clyde, 4,659,889, Cl. 200-330.000.
  - Keenan, Daniel J.; and Hoss, Donald A., 4,714,169, Cl. 220-8.000.
  - Kidd, Garry B., 4,643,314, Cl. 206-600.000.
  - Killen, H. Ron; Wilkins, Scott A.; and Frantz, Douglas C., 4,637,361, Cl. 123-339.000.
  - Kissel, William R.; Sway-Tin, Min; Merchant, Daniel P.; and Frantz, Douglas C., 4,659,977, Cl. 320-64.000.
  - Knapp, George P.; Higgins, Bobby W.; and Roller, Durward W., 4,709,337, Cl. 364-468.000.
  - Kronberger, Leonard J., 4,639,560, Cl. 200-19.00R.
  - Kronberger, Leonard J., 4,661,661, Cl. 200-19.00R.
  - Luitje, William V., 4,708,491, Cl. 368-156.000.
  - Mark, Alfred J.; and Debettin, Joseph H. P., 4,708,760, Cl. 156-362.000.
  - Maston, Donald M.; and Mertz, Kenneth H., 4,695,112, Cl. 439-350.000.
  - McCambridge, John M., 4,689,802, Cl. 375-22.000.
  - Metz, Marcus C., 4,709,776, Cl. 180-281.000.
  - Metz, Marcus C., 4,709,777, Cl. 180-286.000.
  - Michalke, Klaus A., 4,641,390, Cl. 15-250.230.
  - Miesterfeld, Frederick O. R.; Fassnacht, Ronald E.; and McCambridge, John M., 4,706,082, Cl. 340-825.500.
  - Mills, John E.; and Dahl, Michael A., 4,704,560, Cl. 315-169.300.
  - Mills, Ronald E.; and Perry, Peter J., 4,712,823, Cl. 296-37.800.
  - Moore, Michael G.; and Mills, Ronald E., 4,708,386, Cl. 296-37.800.
  - Mott, Donald H.; and Schmidt, Howard, 4,688,527, Cl. 123-188.0AA.
  - Pavur, Carol P., 4,685,173, Cl. 16-2.000.
  - Perkins, David J., 4,637,628, Cl. 280-689.000.
  - Priest, Scott J.; Barton, Billy J.; and Johnson, Ronald C., 4,699,420, Cl. 296-210.000.
  - Racchi, Theodore T., 4,646,864, Cl. 180-69.220.
  - Scalisi, Joseph M.; and Bzowycky, Peter, 4,633,729, Cl. 74-477.000.
  - Scalisi, Joseph M.; and Bzowycky, Peter, 4,633,730, Cl. 74-477.000.
  - Schenten, James L., 4,650,258, Cl. 303-22.00R.
  - Schenten, James L., 4,678,240, Cl. 303-6.00C.
  - Secord, Nelson W., 4,637,097, Cl. 24-16.0PB.
  - Stoody, Richard R., Jr., 4,644,913, Cl. 123-90.460.
  - Sulcer, James R., Jr., 4,652,139, Cl. 368-9.000.
  - Sullivan, Thomas M., 4,682,088, Cl. 318-568.000.
  - Trinklein, Donald W., 4,663,007, Cl. 204-180.200.
  - Wachowski, Raymond J.; and Mulso, Francis A., 4,685,712, Cl. 293-128.000.
  - Walsh, Leo F.; and Mulso, Frank A., 4,671,551, Cl. 293-126.000.
  - Weertman, Willem L., 4,703,725, Cl. 123-192.00B.
  - Wolford, Gerald T.; Kleinlein, Dwight R.; and Stewart, Hubert F., 4,679,844, Cl. 296-136.000.
  - Woy, Thaddeus W., 4,660,124, Cl. 361-386.000.
  - Wroblewski, Thomas R.; and Miesterfeld, Frederick O. R., 4,677,308, Cl. 307-10.00R.

Zaveri, Vikram; Heling, Dennis H.; and Radyko, Keith S., 4,634,180, Cl. 297-341.000.

Zeigler, Thornton W., Jr.; Romanczuk, Chris S.; Betterton, Joseph T.; and Glover, Alfred H., 4,686,952, Cl. 123-572.000.

Chrysostome, Gerard; Feugier, Alain; and Kita, Jean C., to Charbonnages de France. Fluidizing apparatus with built-in heat exchanger. 4,674,564, 6-23-87, Cl. 165-104.160.

Chryssomallis, George; and Griffing, Robert S., to FMC Corporation. Combustion augmented plasma pressure amplifier. 4,711,154, 12-8-87, Cl. 89-7.000.

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Chrzanowski, Richard S., to MTF Hydraulics, Inc. Self-venting seal assembly for relatively movable members. 4,703,937, 11-3-87, Cl. 277-29.000.

Chszaniecke, Siegfried, to Hermann Berstorff Maschinenbau GmbH. Twin-screw extrusion device. 4,643,661, 2-17-87, Cl. 425-204.000.

Chu, Alan C. Animal trap with rotative tangential doors. 4,688,348, 8-25-87, Cl. 43-61.000.

Chu, Arthur S.; Bart, Edward F.; Cook, George R.; and Horbachewski, David M., to Allied Corporation. Low solids content, coal tar based impregnating pitch. 4,664,774, 5-12-87, Cl. 208-6.000.

Chu, Chaokang, to Cuno Incorporated. Filter cartridge including external cell separators. 4,704,207, 11-3-87, Cl. 210-347.000.

Chu, Chaokang: *See—*

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Chu, Chihang R., to Stauffer Chemical Company. Granular anhydrous dicalcium phosphate compositions suitable for direct compression tableting. 4,675,188, 6-23-87, Cl. 424-154.000.

Chu, Chin-Chiun, to Mobil Oil Corporation. Aromatization reactions with zeolites containing phosphorus oxide. 4,665,251, 5-12-87, Cl. 585-415.000.

Chu, Chun T. Unlimited and continuous pneumatic generating system to be driven with the sea wave force. 4,661,716, 4-28-87, Cl. 290-53.000.

Chu, Chung K.; and Schinazi, Raymond F., to University of Georgia Research Foundation, Inc.; and Emory University. 2',3'-dideoxy-5-substituted uridines and related compounds as antiviral agents. 4,681,933, 7-21-87, Cl. 536-23.000.

Chu, Cynthia T. W.; and Valyocsik, Ernest W., to Mobil Oil Corporation. Process for converting light olefins to gasoline, distillate and lube range hydrocarbons. 4,665,250, 5-12-87, Cl. 585-415.000.

Chu, Cynthia T-W; and Chang, Clarence D., to Mobil Oil Corporation. Crystalline microporous oxide MCM-21 and process for its preparation. 4,696,807, 9-29-87, Cl. 423-305.000.

Chu, Cynthia T. W.: *See—*

Chang, Clarence D.; Chu, Cynthia T. W.; and Miale, Joseph N., 4,670,412, Cl. 502-77.000.

Chu, Daniel T., to Abbott Laboratories. Isoxazolo-pyrido-benzoxazine and isothiazolo-pyrido-benzoxazine derivatives. 4,687,770, 8-18-87, Cl. 514-211.000.

Chu, Daniel T., to Abbott Laboratories. Isoxazolo-pyrido-phenoxazine and isothiazolo-pyrido-phenoxazine derivatives. 4,689,325, 8-25-87, Cl. 514-211.000.

Chu, Daniel Y.: *See—*

Burd, Samuel; and Chu, Daniel Y., 4,699,706, Cl. 204-301.000.

Chu, Daniel Y. M., to Bio-Rad Laboratories, Inc. Destaining apparatus for electrophoresis gels. 4,702,266, 10-27-87, Cl. 134-60.000.

Chu, Daniel Y. M., to Bio-Rad Laboratories, Inc. Destaining apparatus for electrophoresis gels. 4,705,056, 11-10-87, Cl. 134-111.000.

Chu, David T.: *See—*

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Chu, Edmond Y.; and Valencia, Vance I., to Maxwell Laboratories, Inc. Saturable inductor switch and pulse compression power supply employing the switch. 4,707,619, 11-17-87, Cl. 307-106.000.

Chu, George, to Collagen Corporation. Process of making collagen membranes for medical use. 4,655,980, 4-7-87, Cl. 264-102.000.

Chu, George, to Collagen Corporation. Collagen membranes for medical use. 4,689,399, 8-25-87, Cl. 530-356.000.

Chu, George H.: *See—*

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Chu, John W.; and Bereznak, Bradley J., to Advanced Micro Devices, Inc. Thin film chromium-silicon-carbon resistor. 4,682,143, 7-21-87, Cl. 338-307.000.

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Chu, Mosi; Kress, Kenneth; and Manber, Solomon, to Primages, Inc. Vibrating thermal printing. 4,675,701, 6-23-87, Cl. 346-76.0PH.

Chu, Nan S.; and Kanner, Bernard, to Union Carbide Corporation. Method for preparing methacryloxy and acryloxy containing organosilanes and organosilicones. 4,709,067, 11-24-87, Cl. 556-440.000.

Chu, Nori Y. C., to American Optical Corporation. Trifluoromethyl substituted spirooxazine photochromic dyes. 4,699,473, 10-13-87, Cl. 350-409.000.

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Langenberg, Anthony J.; Chu, Pak-Jong; Moss, John S.; and Collar, Geoffrey A., 4,709,389, Cl. 379-424.000.

Chu, Ping. Intravenous fluid infusion device. 4,636,197, 1-13-87, Cl. 604-131.000.

Chu, Pochen; and LaPierre, Rene B., to Mobil Oil Corporation. Crystallization of ZSM-5 from reaction mixtures containing zeolite beta. 4,650,655, 3-17-87, Cl. 423-328.000.

Chu, Pochen; and Kuehl, Guenter H., to Mobil Oil Corporation. Hydrothermal zeolite activation. 4,665,043, 5-12-87, Cl. 502-71.000.

Chu, Pochen; and Garwood, William E., to Mobil Oil Corporation. Conversion of aromatics over novel catalyst composition. 4,665,25 5-12-87, Cl. 585-467.000.

Chu, Pochen; and Garwood, William E., to Mobil Oil Corporation. Conversion of olefins and paraffins over novel catalyst composition. 4,665,265, 5-12-87, Cl. 585-533.000.

Chu, Pochen; and Garwood, William E., to Mobil Oil Corporation. Conversion of oxygenates over novel catalyst composition. 4,665,269, 5-12-87, Cl. 585-640.000.

Chu, Richard C., to International Business Machines Corporation. Composite heat transfer device with pins having wings alternately oriented for up-down flow. 4,638,858, 1-27-87, Cl. 165-185.000.

Chu, Richard C.; and Simons, Robert E., to International Business Machines Corp. Heat transfer element with nucleate boiling surface and bimetallic fin formed from element. 4,709,754, 12-1-87, Cl. 165-133.000.

Chu, Ruey S.: *See—*

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Chu, Russell: *See—*

Gwilliam, Tony S.; and Chu, Russell, 4,711,062, Cl. 52-646.000.

Chu, Sung G.; Jabloner, Harold; and Swetlin, Brian J., to Hercules Incorporated. Thermosetting epoxy resin compositions and thermosets therefrom. 4,656,208, 4-7-87, Cl. 523-400.000.

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Jabloner, Harold; Swetlin, Brian J.; and Chu, Sung G., 4,656,207, Cl. 523-400.000.

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Bellingham, Ronald S.; and White, Malcolm J., 4,694,666, Cl. 70-16.000.

Dyson, George W., 4,707,005, Cl. 292-332.000.

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  Ono, Teruaki, 4,699,242, Cl. 181-170.000.
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  Sakn, Shizuka; Amaike, Kanetoshi; and Watanabe, Youji, 4,703,431, Cl. 364-470.000.
Chucta, Michael, to Clark Equipment Company. Automated parts supply system. 4,669,047, 5-26-87, Cl. 364-468.000.
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Chufistov, Sergei A.: *See—*
  Tupitsyn, Konstantin K.; Tupitsyn, Sergei K.; Kostylev, Alexandr D.; Kamensky, Veniamin V.; and Chufistov, Sergei A., 4,690,225, Cl. 173-116.000.
Chugai Denki Kogyo K.K.: *See—*
  Shibata, Akira, 4,636,270, Cl. 148-431.000.
  Shibata, Akira, 4,647,322, Cl. 148-431.000.
  Shibata, Akira, 4,680,162, Cl. 419-21.000.
  Shibata, Akira, 4,695,330, Cl. 148-6.300.
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Chugai Ro Co., Ltd.: *See—*
  Akiyama, Tetsuo; and Arita, Saiji, 4,657,504, Cl. 431-166.000.
  Harada, Saburo; Yoshino, Takao; Takeshima, Rikio; Sengan, Masakazu; and Kissei, Kyoichi, 4,669,939, Cl. 414-173.000.
  Inoue, Masayuki, 4,691,898, Cl. 266-89.000.
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  Hinohara, Yoshikazu; Kaifu, Rokuro; and Matsunaga, Isao, 4,696,919, Cl. 514-62.000.
  Ishihara, Kouji; Igusa, Kazuo; and Ogasawara, Toshichika, 4,668,665, Cl. 514-53.000.
  Koga, Hiroshi; Mori, Takashi; Dan, Takashi; and Akima, Michitaka, 4,661,607, Cl. 549-383.000.
  Miyamoto, Katsuhito; Kubodera, Noboru; Ochi, Kiyoshige; Matsunaga, Isao; and Murayama, Eigoro, 4,666,634, Cl. 260-397.200.
  Mori, Takashi; Ohi, Nobuhiro; Ohsugi, Yoshiyuki; and Yamashita, Yasuhiro, 4,691,018, Cl. 546-309.000.
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  Shirakawa, Shingo; Maruyama, Seiichi; Nakano, Seizo; Okamoto, Eichi; and Kohara, Kenji, 4,675,773, Cl. 361-63.000.
Chuit, Claude G.: *See—*
  Corriu, Robert J.; Cerveau, Genevieve E.; Chuit, Claude G.; and Reye, Catherine, 4,665,209, Cl. 556-474.000.
Chujo, Yoshiki; Kayanuma, Nobuaki; Bessho, Hironori; Masui, Takatoshi; Nagai, Toshinari; Katsuno, Toshiyasu; and Tanahashi, Toshio, to Toyota Jidosha Kabushiki Kaisha. Double air-fuel ratio sensor system having improved response characteristics. 4,693,076, 9-15-87, Cl. 60-274.000.
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Chum, Stanley, to GTE Sprint Communications Corp. Local and remote bit error rate monitoring for early warning of fault location of digital transmission system. 4,710,924, 12-1-87, Cl. 371-4.000.
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Chum, Stanley P. K., to GTE Sprint Communications Corporation. Digital repeater with 3-way branching of service channels. 4,667,319, 5-19-87, Cl. 370-55.000.
Chumbley, James F. Decorative fabric wall system. 4,635,410, 1-13-87, Cl. 52-63.000.
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Chun, Andrew. Amphibious pedal powered sailboat. 4,657,514, 4-14-87, Cl. 440-31.000.
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  Min, Seong K.; Kim, Yong J.; Lee, Hee W.; and Chun, Chul G., 4,685,009, Cl. 360-95.000.
Chun, Jino, to Texas Instruments Incorporated. Low power clock generator. 4,701,633, 10-20-87, Cl. 307-269.000.
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  Martin, William J.; and Chun, John M., 4,700,429, Cl. 15-377.000.
Chun, Joong H. Submersible offshore drilling production and storage platform with anti-catenary stationing. 4,653,960, 3-31-87, Cl. 405-210.000.
Chun, Jung-Hoon: *See—*
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Chun, Kang R., to Northrop Corporation. Pulsed gas laser using acoustic diodes for circulation of the gas. 4,654,855, 3-31-87, Cl. 372-58.000.
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Chun, Kil Whan; Gilbert, Allan H.; Lang, David J.; and Santos, Edward, to Lever Brothers Company. Particles containing active halogen bleach in a diluted core. 4,707,160, 11-17-87, Cl. 8-101.000.
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  Ryan, James W.; and Chung, Alfred, 4,690,936, Cl. 514-362.000.
  Ryan, James W.; and Chung, Alfred, 4,690,937, Cl. 514-362.000.
  Ryan, James W.; and Chung, Alfred, 4,690,938, Cl. 514-362.000.
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  Ryan, James W.; and Chung, Alfred, 4,692,437, Cl. 514-165.000.
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  Ryan, James W.; and Chung, Alfred, 4,695,577, Cl. 514-362.000.
  Ryan, James W.; and Chung, Alfred, 4,695,582, Cl. 514-423.000.
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Chung-Bong-Chan, Alexander; and Wolfram, Leszek J., to Clairol Incorporated. Process for coloring keratinaceous materials. 4,695,285, 9-22-87, Cl. 8-429.000.
Chung, Bong Kwan, to Samsung Electronics Co., Ltd. Rotary coupling for rotatively connecting a feeder line to a rod antenna. 4,690,473, 9-1-87, Cl. 439-1.000.
Chung, Chao-Jen: *See—*
  Sperry, Peter R.; and Chung, Chao-Jen, 4,647,610, Cl. 524-377.000.
Chung, Daniel C.; and Chu, Kwang-Ho, to Ausimont, U.S.A., Inc. Method of melt processing and article made of a stabilized copolymer of vinyl chloride and chlorotrifluoroethylene. 4,702,961, 10-27-87, Cl. 428-379.000.
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Chung, David Y.: *See—*
  Lundberg, Robert D.; Phillips, Robert R.; Minckler, L. Sherwood; and Chung, David Y., 4,692,268, Cl. 252-33.400.
Chung, Deborah D. L. Low-density graphite-polymer electrical conductors. 4,704,231, 11-3-87, Cl. 252-511.000.
Chung, Fred C.; and Clark, Ross P., to Memorex Corporation. Magnetic recording medium with lubricant. 4,659,627, 4-21-87, Cl. 428-447.000.
Chung, Fred C.: *See—*
  Karle, Dennis W.; Payne, Zie A.; Chung, Fred C.; and Clark, Ross P., 4,686,146, Cl. 428-425.900.
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  Kang, Won H.; and Chung, Ki H., 4,654,381, Cl. 523-149.000.
Chung, Ki Ho, to Samhwa Electric Industrial Co. Safety device for communication equipment. 4,692,833, 9-8-87, Cl. 361-91.000.
Chung, Landy. Boiler furnace air register. 4,681,532, 7-21-87, Cl. 431-183.000.
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Chung, Szu-Chi, to Equus Inc. Protective device for auto illumination system. 4,697,220, 9-29-87, Cl. 361-100.000.

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Cung, David, 4,706,264, Cl. 375-122.000.

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Chunikhin, Mikhail I.: *See—*
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Chuo Hatsujo Kabushiki Kaisha: *See—*
Yamamoto, Toshiro; Kobayashi, Ryohei; Kurimoto, Mamoru; and Ozone, Toshio, 4,711,675, Cl. 148-144.000.

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Mishima, Yasuhiro; Makibayashi, Katsunori; and Kuwayama, Kiyoaki, 4 637,595, Cl. 267-52.000.

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Alt, Gerhard H.; Chupp, John P.; and Chabe, Lane A., 4,665,228, Cl. 564-152.000.

Chupp, Vernon, to Becton, Dickinson and Company. Scatter/fluorescene beam splitter in a flow cytometry apparatus. 4,662,742, 5-5-87, Cl. 356-39.000.

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Church and Dwight Co., Inc.: *See—*
Sarapata, James S.; and Shaffery, Raymond, 4,664,893, Cl. 423-244.000.
Winston, Anthony; Ansaldi, Anthony; and Usen, Norman, 4,663,153, Cl. 424-52.000.

Church, Gregg A.: *See—*
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Church, John E. Aerosol can agitator. 4,641,974, 2-10-87, Cl. 366-342.000.

Church, John F.; and Stone, Walter H., to Parker Hannifin Corporation. Filter assembly with high pressure connection to collection bowl. 4,692,245, 9-8-87, Cl. 210-232.000.

Church, Kristy L. Stress gauging device for threaded connector. 4,685,337, 8-11-87, Cl. 73-762.000.

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Church, Mark A., to International Business Machines. Method for making a thin film magnetic head. 4,652,954, 3-24-87, Cl. 360-120.000.

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Church, Peter D., to Marconi Company Limited, The. Vibrational gyroscope. 4,644,793, 2-24-87, Cl. 73-505.000.

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Churchill, Fredrick C.: *See—*
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Chureau, Bernard, to Societe Anonyme Recherche, Montage, Production "Polylignes". Baiting machine for trawl line fishing using entire fishes. 4,644,677, 2-24-87, Cl. 43-4.000.

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Churyo Engineering Co., Ltd.: *See—*
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Chute, Richard: *See—*
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Chutjian, Ara; and Orient, Otto J., to United States of America, National Aeronautics and Space Administration. Variable energy, high flux, ground-state atomic oxygen source. 4,649,273, 3-10-87, C 250-251.000.

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Chwang, Tek L., to St. Jude Children's Research Hospital. Nitrosubstituted 1-β-D-arabinofuranosylcytosines. 4,652,554, 3-24-87, C 514-49.000.

Chyb, Mario: *See—*
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Chymiak, Michael V. Mount for feedhorn/LNA assembly. 4,689,634 8-25-87, Cl. 343-840.000.

Chynoweth, David P., to Institute of Gas Technology. Mixed microbial fermentation of carbonaceous matter to road de-icer. 4,636,467 1-13-87, Cl. 435-140.000.

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CH_2M Hill, Inc.: *See—*
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CI Australia Ltd.: *See—*
Conway, Richard J.; Watson, Keith G.; and Farquharson, Graeme J., 4,704,157, Cl. 71-90.000.

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Ciordinik, Jacques; Ciordinik, Federico; and Penzo, Alessandro 4,676,485, Cl. 256-12.000.
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- Cianfarani, Vincent: *See*—
  - Bongiovanni, Nicola; and Cianfarani, Vincent, 4,709,887, Cl. 248-66.000.
- Ciannella, Michael A., to Medi-Tech, Inc. Enteric feeding device. 4,698,056, 10-6-87, Cl. 604-164.000.
- Ciaraldi, Anthony, to Dictaphone Corporation. Mounting frame for microcassette changer. 4,663,680, 5-5-87, Cl. 360-92.000.
- Ciaramitaro, David A.; Speltz, David J.; and Moore, Jack M., to Apache Powder Company. High density gel explosive. 4,637,848, 1-20-87, Cl. 149-21.000.
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  - Cook, Thomas A., 4,671,938, Cl. 422-57.000.
  - Feinberg, Richard R., 4,711,855, Cl. 436-500.000.
  - Hoskins, Michael K., 4,643,976, Cl. 436-15.000.
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  - Lee, Chang R.; and Chang, Pei K., 4,675,201, Cl. 426-573.000.
  - Lepp, Cyrus A.; Mussatto, James J.; and Ziegenmeyer, James M., 4,707,237, Cl. 204-182.800.
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  - Brenner, Max, 4,698,159, Cl. 210-634.000.
  - Caetcuti, Raphael J. F.; and Melbourne, John E., 4,650,339, Cl. 366-142.000.
  - Clubley, Brian G.; Dellar, Richard J.; Buszard, David L.; and Richardson, Norman, 4,656,200, Cl. 521-108.000.
  - Dill, Bernd, 4,659,831, Cl. 546-31.000.
  - Graber, Alfred, 4,645,128, Cl. 239-223.000.
  - Holland, David B.; and Wood, Glenn P., 4,656,106, Cl. 430-2.000.
  - Hopwood, Howard R.; Lewis, Sylvia A.; and Walker, Peter C., 4,643,315, Cl. 206-620.000.
  - Howell, Frederick H., 4,661,601, Cl. 548-251.000.
  - Kriebel, Arnd, 4,704,349, Cl. 430-406.000.
  - Kristen, Ulrich; Haring, Ulrich; Fischer, Francis; and Cron, Alain, 4,713,186, Cl. 252-30.000.
  - Moss, Brian F.; and Brent, Richard J., 4,664,498, Cl. 354-313.000.
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  - Moss, Brian F.; and Brent, Richard J., 4,678,308, Cl. 354-313.000.
  - Moss, Brian F.; and Brent, Richard J., 4,678,309, Cl. 354-313.000.
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  - Ostermayer, Franz; and Zimmermann, Markus, 4,636,511, Cl. 514-311.000.
  - Postle, Stephen R.; and Barber, Roy P., 4,643,588, Cl. 374-160.000.
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  - Priester, Martin; and Loew, Peter, 4,655,970, Cl. 260-378.000.
  - Panzar, Marianne; Marti, Franz; Mercier, Robert; Tobler, Paul; and Buttiker, Rudolf, 4,678,852, Cl. 544-194.000.
  - Rohr, Thomas-Markus; and Kuhn, Jakob, 4,701,525, Cl. 534-678.000.
  - Ronco, Karl, 4,689,403, Cl. 534-820.000.
  - Schar, Meinrad, 4,647,173, Cl. 354-319.000.
  - Shawcross, Brian E., 4,690,547, Cl. 355-72.000.
  - Tirel, Malcolm D.; and Long, William E., 4,687,846, Cl. 544-140.000.
  - Tschopp, Paul, 4,661,437, Cl. 430-390.000.
  - Tschopp, Paul; and Leppard, David G., 4,661,440, Cl. 430-512.000.
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  - Abel, Heinz; Schafer, Paul; and Berendt, Hans-Ulrich, 4,705,525, Cl. 8-555.000.
  - Abel, Heinz; Schafer, Paul; and Berendt, Hans-Ulrich, 4,705,526, Cl. 8-555.000.
  - Ackermann, Peter, 4,661,497, Cl. 514-345.000.
  - Adam, Jean-Marie, 4,656,268, Cl. 544-126.000.
  - Adam, Jean-Marie; and Buhler, Arthur, 4,667,057, Cl. 562-567.000.
  - Alder, Alex; Stanek, Jaroslav; and Bellus, Daniel, 4,677,129, Cl. 514-299.000.
  - Andrews, Christopher M., 4,645,818, Cl. 528-93.000.
  - Andriola, Robert; Moore, Donald J.; and Asche, Henning, 4,666,441, Cl. 604-897.000.
  - Bühler, Fridolin; Jaffe, Edward E.; and Medinger, Bernhard, 4,692,189, Cl. 106-308.00S.
  - Back, Gerhard; Schutz, Hans U.; and Schlesinger, Ulrich, 4,678,851, Cl. 534-619.000.
  - Back, Gerhard, 4,680,385, Cl. 534-695.000.
  - Back, Gerhard; and Mosimann, Walter, 4,681,596, Cl. 8-620.000.
  - Bagga, Madan M.; and Bull, Christopher H., 4,659,779, Cl. 525-118.000.
  - Bagga, Madan M.; and Bull, Christopher H., 4,701,378, Cl. 428-414.000.
  - Bagga, Madan M.; and Bull, Christopher H., 4,713,432, Cl. 526-313.000.
  - Banks, Christopher P.; and Irving, Edward, 4,640,753, Cl. 204-181.700.
  - Baschang, Gerhard; Hartmann, Albert; and Wacker, Oskar, 4,640,911, Cl. 514-42.000.
  - Baschang, Gerhard; Hartmann, Albert; and Wacker, Oskar, 4,666,886, Cl. 514-17.000.
  - Baschang, Gerhard; Hartmann, Albert; and Wacker, Oskar, 4,711,879, Cl. 514-42.000.
  - Bauer, Sigrid, 4,693,961, Cl. 430-325.000.
  - Baumann, Marcus; and Breitenstein, Werner, 4,639,531, Cl. 549-261.000.
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  - Baumann, Marcus; Bosshard, Hans; and Greuter, Hans, 4,652,653, Cl. 548-171.000.
  - Beck, Andreas; Sallmann, Alfred; Lang, Robert W.; and Wenk, Paul, 4,670,604, Cl. 568-337.000.
  - Becker, Carl, 4,713,081, Cl. 8-527.000.
  - Bedekovic, Davor; and Fletcher, Ian J., 4,668,790, Cl. 546-116.000.
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  - Bedekovic, Davor; and Fletcher, Ian J., 4,705,776, Cl. 503-220.000.
  - Beffa, Fabio, 4,650,859, Cl. 534-690.000.
  - Beffa, Fabio; and Schlesinger, Ulrich, 4,652,631, Cl. 534-645.000.
  - Beffa, Fabio; and Schutz, Hans U., 4,710,198, Cl. 8-437.000.
  - Behrens, Rudolf A.; and Seltzer, Raymond, 4,691,015, Cl. 544-198.000.
  - Bentley, Robert L.; Hoyle, William; and Jack, James, 4,696,763, Cl. 252-391.000.
  - Berger, Joseph, 4,642,353, Cl. 548-431.000.
  - Berger, Joseph; and Lohse, Friedrich, 4,677,047, Cl. 430-283.000.
  - Beriger Ernst, 4,694,014, Cl. 514-363.000.
  - Berner, Godwin; and Rutsch, Werner, 4,699,949, Cl. 525-162.000.
  - Beuke, Donald, 4,659,514, Cl. 260-104.000.
  - Biollaz, Michel, 4,670,551, Cl. 540-23.000.
  - Blattner, Hans; and Storni, Angelo, 4,707,476, Cl. 514-215.000.
  - Blattner, Rudolf, 4,692,278, Cl. 260-367.000.
  - Blattner, Rudolf, 4,701,281, Cl. 260-367.000.
  - Boast, Carl A., 4,705,781, Cl. 514-85.000.
  - Boger, Manfred; and Drabek, Jozef, 4,638,069, Cl. 546-300.000.
  - Boger, Manfred; Drabek, Jozef; and Neumann, Rainer, 4,656,183, Cl. 514-346.000.
  - Boger, Manfred; Reinehr, Dieter; De Sousa, Bernardo; and Schmid, Werner, 4,664,673, Cl. 8-490.000.
  - Boger, Manfred, 4,677,127, Cl. 514-346.000.
  - Boger, Manfred, 4,687,855, Cl. 546-300.000.
  - Bohner, Beat; Rempfler, Hermann; and Schurter, Rolf, 4,640,703, Cl. 71-92.000.
  - Bohner, Beat; Fory, Werner; Schurter, Rolf; and Pissiotas, Georg, 4,681,620, Cl. 71-93.000.
  - Bohner, Beat; Fory, Werner; Schurter, Rolf; and Pissiotas, Georg, 4,684,730, Cl. 544-408.000.
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  - Bowles, James B.; White, Marshall, Jr.; Puntener, Alois; Adam, Jean-Marie; and Loew, Peter, 4,652,269, Cl. 8-641.000.
  - Bowles, James B.; White, Marshall, Jr.; Puentener, Alois; Adam, Jean-Marie; and Loew, Peter, 4,693,727, Cl. 8-549.000.
  - Brady, Arthur; Kristen, Ulrich; Angerer, Hermann F.; and Regenass, Franz, 4,701,273, Cl. 252-32.500.
  - Brunner, Hans-Georg, 4,640,706, Cl. 71-94.000.
  - Brunner, Hans-Georg, 4,648,896, Cl. 71-90.000.
  - Brunner, Hans-Georg, 4,693,745, Cl. 71-94.000.
  - Brunner, Hans-Georg; Burdeska, Kurt; and Fory, Werner, 4,698,091, Cl. 71-87.000.
  - Burdeska, Kurt; Kabas, Guglielmo, deceased; Brunner, Hans-Georg; and Fory, Werner, 4,674,229, Cl. 47-57.600.
  - Burke, Peter E., 4,670,514, Cl. 525-369.000.
  - Cantatore, Giuseppe, 4,695,599, Cl. 524-103.000.
  - Cantatore, Giuseppe, 4,696,961, Cl. 524-100.000.
  - Chaudhari, Mohammad A.; and King, John J., 4,589,378, Cl. 526-259.000.
  - Conetta, Thomas E.; Malherbe, Roger F.; and Winter, Roland A. E., 4,650,870, Cl. 544-357.000.
  - Cook, Barry; Richardson, Norman; and Tames, Joseph, 4,689,200, Cl. 422-15.000.
  - Cseh, Georg; and Lienhard, Paul, 4,639,477, Cl. 524-83.000.
  - Cseh, Georg; and Lienhard, Paul, 4,670,486, Cl. 524-93.000.
  - Darbellay, Jacques; and Dessauges, Gerald, 4,668,807, Cl. 549-542.000.
  - Darms, Roland; and Monnier, Charles E., 4,649,181, Cl. 525-524.000.
  - Davatz, Alexander; and Somlo, Tibor, 4,642,350, Cl. 548-260.000.
  - Demmer, Christopher G.; and Irving, Edward, 4,681,923, Cl. 525-504.000.
  - Dexter, Martin, 4,689,362, Cl. 524-266.000.
  - Diel, Peter J.; and Maier, Ludwig, 4,640,701, Cl. 71-86.000.
  - Dingwall, John G.; Ehrenfreund, Josef; Hall, Roger G.; and Jack, James, 4,656,298, Cl. 556-12.000.

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Frick, Willy; Meyer, Alfred; and Nyfeler, Robert, 4,690,942, Cl. 514-383.000.
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Hoegerle, Karl; Cellarius, Hans J.; Rathgeb, Paul; and Rumpf, Jurg, 4,686,294, Cl. 548-140.000.
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Kunz, Walter; and Eckhardt, Wolfgang, 4,663,463, Cl. 548-262.000.
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Pfeifer, Josef, 4,696,890, Cl. 430-325.000.
Pfeifer, Josef; and Duthaler, Rudolf, 4,698,295, Cl. 430-325.000.
Pfeifer, Josef; and Duthaler, Rudolf, 4,714,669, Cl. 430-325.000.
Pfenninger, Johannes; Iqbal, Abul; Rochat, Alain C.; and Wallquist, Olof, 4,659,775, Cl. 524-92.000.
Pfenninger, Johannes; Iqbal, Abul; and Rochat, Alain C., 4,681,971, Cl. 558-414.000.
Phillips, Emyr; and Holt, Brian, 4,637,926, Cl. 423-573.00R.
Pischky, Hans, 4,710,220, Cl. 71-67.000.
Podder, Nitya G., 4,648,883, Cl. 8-527.000.
Rabener, Claus W.; Horner, Hans-Peter; and Baumann, Dieter, 4,716,185, Cl. 523-456.000.
Ramanathan, Visvanathan; and Mockli, Peter, 4,654,384, Cl. 534-604.000.
Rao, Vittal R., 4,680,301, Cl. 514-321.000.
Rasberger, Michael, 4,652,648, Cl. 546-22.000.
Rasberger, Michael; Hofmann, Peter; Meier, Hans R.; and Dubs, Paul, 4,661,594, Cl. 546-22.000.
Rasberger, Michael; Dubs, Paul; and Evans, Samuel, 4,692,258, Cl. 252-50.000.
Ravichandran, Ramanathan; Malherbe, Roger F.; and Seltzer, Raymond, 4,649,221, Cl. 564-300.000.
Ravichandran, Ramanathan; and Snead, Thomas E., 4,663,373, C 524-101.000.
Ravichandran, Ramanathan; and Snead, Thomas E., 4,666,962, C 524-99.000.
Ravichandran, Ramanathan; and Snead, Thomas E., 4,666,963, C 524-101.000.
Ravichandran, Ramanathan; and Snead, Thomas E., 4,668,727, C 524-239.000.
Ravichandran, Ramanathan; and Snead, Thomas E., 4,673,700, C 524-96.000.

- Ravichandran, Ramanathan, 4,696,964, Cl. 524-236.000.
- Reinehr, Dieter; and Pfeifer, Josef, 4,658,066, Cl. 564-490.000.
- Reinert, Gerhard; Huber-Emden, Helmut; and Back, Gerhard, 4,655,783, Cl. 8-115.660.
- Reinert, Gerhard; Back, Gerhard, and Huber-Emden, Helmut, 4,655,785, Cl. 8-442.000.
- Reinert, Gerhard; Holzle, Gerd; and Graf, Gregor, 4,657,554, Cl. 8-107.000.
- Reinert, Gerhard; Schutz, Hans U.; and Back, Gerhard, 4,704,133, Cl. 8-442.000.
- Renner, Alfred; and Eldin, Sameer H., 4,666,997, Cl. 525-502.000.
- Renner, Alfred, 4,667,003, Cl. 526-259.000.
- Renner, Alfred; and Vonlanthen, Christian, 4,709,047, Cl. 548-435.000.
- Renner, Alfred; Haug, Theobald; and Schreiber, Bruno, 4,713,417, Cl. 525-117.000.
- Richardson, Norman, deceased; Clubley, Brian G.; and Dellar, Richard J., 4,666,967, Cl. 524-130.000.
- Rohde, Ottmar; and Pfeifer, Josef, 4,656,116, Cl. 430-197.000.
- Roloff, Achim; and Gschwend, Heinz W., 4,697,016, Cl. 544-344.000.
- Ronco, Ronald; Stingelin, Willy; and Hanggi, Ernst, 4,650,867, Cl. 544-197.000.
- Roth, Martin, 4,656,292, Cl. 548-548.000.
- Ruegg, Christoph; Voirol, Peter; Fuchs, Willi; and Meister, Hans U., 4,715,739, Cl. 403-30.000.
- Scartazzini, Riccardo; and Bickel, Hans, 4,668,781, Cl. 540-215.000.
- Schaub, Andres, 4,659,333, Cl. 8-476.000.
- Schaulin, Rudolf; and Grelat, Maurice, 4,661,292, Cl. 260-371.000.
- Scheibli, Peter; Kanzig, Alex; and Schaub, Andres, 4,647,285, Cl. 8-528.000.
- Scheibli, Peter; and Seitz, Karl, 4,713,082, Cl. 8-549.000.
- Schiek, Robert C., 4,681,638, Cl. 106-309.000.
- Schlesinger, Ulrich; and Beffa, Fabio, 4,661,587, Cl. 534-696.000.
- Schneider, Josef A., 4,666,916, Cl. 514-291.000.
- Schreiber, Bruno, 4,668,718, Cl. 523-451.000.
- Schurter, Rolf; and Pissiotas, Georg, 4,637,829, Cl. 71-90.000.
- Schurter, Rolf; Thummel, Rudolph C.; Topfl, Werner; Meyer, Willy; and Durr, Dieter, 4,664,695, Cl. 71-92.000.
- Schurter, Rolf; and Pissiotas, Georg, 4,707,177, Cl. 71-90.000.
- Schurter, Rolf; and Rempfler, Hermann, 4,713,109, Cl. 71-94.000.
- Seemuller, Ursula; Dodt, Johannes; and Fritz, Hans, 4,636,489, Cl. 514-12.000.
- Seitz, Karl, 4,647,286, Cl. 8-549.000.
- Seitz, Karl; Riat, Henri; and Hoegerle, Karl, 4,680,384, Cl. 534-622.000.
- Seitz, Karl, 4,709,018, Cl. 534-618.000.
- Seltzer, Raymond; Patel, Ambelal R.; Stewart, Peter W.; and White, Charlene, 4,668,721, Cl. 524-95.000.
- Spivack, John D.; Pastor, Stephen D.; and Odorisio, Paul, 4,642,382, Cl. 568-12.000.
- Spivack, John D.; Ravichandran, Ramanathan; and Pastor, Stephen D., 4,692,532, Cl. 548-312.000.
- Spivack, John D., 4,692,539, Cl. 558-78.000.
- Spivack, John D.; and Pastor, Stephen D., 4,709,050, Cl. 548-520.000.
- Spivack, John D.; Steinberg, David H.; and Odorisio, Paul A., 4,713,475, Cl. 560-75.000.
- Staheli, Theodor, 4,690,306, Cl. 222-80.000.
- Stahl, Peter H., and Schmitz, Beat, 4,639,338, Cl. 260-502.50C.
- Stahl, Peter H.; and Schmitz, Beat, 4,711,880, Cl. 514-108.000.
- Stanton, James L.; and Ksander, Gary M., 4,678,800, Cl. 514-412.000.
- Stegmann, Werner, 4,691,058, Cl. 568-316.000.
- Steiner, Eginhard; and Martin, Pierre, 4,665,186, Cl. 546-250.000.
- Stingelin, Willy; and Adam, Jean-Marie, 4,652,645, Cl. 544-198.000.
- Storni, Angelo; and Meisels, Alex, 4,697,020, Cl. 548-184.000.
- Sturm, Elmar; and Maienfisch, Peter, 4,696,922, Cl. 514-185.000.
- Surber, Werner, 4,709,103, Cl. 568-851.000.
- Szczepanski, Henry, 4,670,559, Cl. 544-211.000.
- Topfl, Rosemarie, 4,684,730, Cl. 548-309.000.
- Topfl, Rosemarie, 4,695,289, Cl. 8-573.000.
- Topfl, Rosemarie, 4,705,865, Cl. 548-341.000.
- Topfl, Rosemarie; and Abel, Heinz, 4,713,482, Cl. 560-196.000.
- Topfl, Werner, 4,656,273, Cl. 544-211.000.
- Topfl, Werner; Meyer, Willy; and Schneider, Hans-Dieter, 4,685,961, Cl. 71-92.000.
- Topfl, Werner; and Pissiotas, Georg, 4,701,206, Cl. 71-90.000.
- Traxler, Peter, 4,681,938, Cl. 540-458.000.
- Vlattas, Isidoros, 4,665,087, Cl. 514-419.000.
- von Sprecher, Andreas; Ernest, Ivan; Main, Alan J.; and Beck, Andreas, 4,649,215, Cl. 560-152.000.
- Voss, Harald; and Rothweiler, Herbert, 4,690,927, Cl. 514-282.000.
- Walker, Gordon N., 4,644,010, Cl. 514-423.000.
- Watthey, Jeffrey W. H., 4,692,469, Cl. 514-651.000.
- Weaver, Max A.; Clark, Gary T.; and Eller, Bill A., 4,650,861, Cl. 534-777.000.
- Wehner, Wolfgang; Muller, Horst, deceased; and Schneider, Rainer, 4,642,322, Cl. 524-191.000.
- Wehner, Wolfgang; and Wirth, Hermann O., 4,656,209, Cl. 524-87.000.
- Werner, Lincoln H.; and Ford, Neville, 4,634,713, Cl. 514-392.000.
- Winter, Roland A. E.; and Malherbe, Roger F., 4,665,185, Cl. 546-184.000.
- Winter, Roland A. E.; and Detlefsen, Robert E., 4,675,352, Cl. 524-91.000.
  - Winter, Roland A. E.; Ravichandran, Ramanathan; and Seltzer, Raymond, 4,703,073, Cl. 524-99.000.
  - Wirth, Hermann O.; Muller, Klaus; and Friedrich, Hans-Helmut, 4,689,162, Cl. 252-32.70E.
  - Yokoyama, Naokata, 4,647,566, Cl. 514-293.000.
  - Zink, Rudolf; and Fletcher, Ian J., 4,668,966, Cl. 346-218.000.
  - Zink, Rudolf; and Fletcher, Ian J., 4,705,775, Cl. 503-218.000.
- Cibeles International Inc.: *See—*
  - Biass, David, 4,643,609, Cl. 403-369.000.
- Cibie, Pierre; and Brun, Norbert, to Cibie Projecteurs. Motor vehicle headlamps projecting a masked beam, in particular a dipped beam. 4,686,610, 8-11-87, Cl. 362-61.000.
- Cibie Projecteurs: *See—*
  - Cibie, Pierre; and Brun, Norbert, 4,686,610, Cl. 362-61.000.
  - Dilouya, Gilbert, 4,680,679, Cl. 362-61.000.
  - Dorleans, Guy, 4,675,792, Cl. 362-61.000.
  - Fratty, Hector, 4,654,759, Cl. 362-61.000.
  - Montet, Maurice, 4,635,174, Cl. 362-457.000.
  - Montet, Maurice, and Baciu, Antoine, 4,670,199, Cl. 264-1.900.
  - Ordonez Olmos, Jose M., 4,674,012, Cl. 362-61.000.
- Cicarese, William C. Portable safety trench and pit form system. 4,685,837, 8-11-87, Cl. 405-282.000.
- Ciccarelli, Angelo. Dental floss applicator. 4,691,719, 9-8-87, Cl. 132-92.00R.
- Ciccarone, Angelo, to Alfa Romeo Auto S.p.A. Device for correcting functional quantities in an internal combustion engine. 4,706,197, 11-10-87, Cl. 364-431.080.
- Cicchino, Dominic: *See—*
  - Chen, Te H.; Cicchino, Dominic; and Shadbolt, Peter J., 4,711,186, Cl. 110-336.000.
- Ciccia, Lawrence P.: *See—*
  - Herdeg, Donald F.; and Ciccia, Lawrence P., 4,682,552, Cl. 112-121.120.
  - Herdeg, Donald F.; and Ciccia, Lawrence P., 4,686,915, Cl. 112-121.120.
- Ciccotelli, Stephen S. Swim fin. 4,657,515, 4-14-87, Cl. 441-64.000.
- Ciccotelli, Stephen S. Swim fin. 4,689,029, 8-25-87, Cl. 441-64.000.
- Ciccozzi, Frederick A.: *See—*
  - Kappelt, Eric G.; and Ciccozzi, Frederick A., 4,655,089, Cl. 73-861.380.
- Cicin-Sain, Ivo, to Danieli & C. Officine Meccaniche SpA; and ITI/CLM Impianti Tecnici Industriali SpA. Railway ballast renewal machine for tunnels. 4,682,428, 7-28-87, Cl. 37-104.000.
- Cicin-Sain, Ivo, to Danieli & C. Officine Meccaniche SpA.; and ITI/CLM Impianti Tecnici Industriali SpA. Ballast dressing unit on machines which dress and re-distribute railway road bed ballast. 4,706,395, 11-17-87, Cl. 37-105.000.
- Cicin-Sain, Ivo, to Danieli & C. Officine Meccaniche SpA; and ITI/CLM Impianti Tecnici Industriali SpA. Self-propelled machine to dress and re-distribute railway road bed ballast. 4,707,935, 11-24-87, Cl. 37-105.000.
- Cicognani, Mario: *See—*
  - Tangorra, Giorgio; Cicognani, Mario; and Macchiarulo, Vincenzo, 4,634,410, Cl. 474-153.000.
- Ciekanski, Francois, to Societe de Fabrication d'Appareils Automatiques et Sirops dite F.A.A.S (S.a.r.l). Beverage vending machine. 4,655,266, 4-7-87, Cl. 141-82.000.
- Cielo, Paolo; and Vaudreuil, Ghislain, to Canadian Patents and Development Limited. Optical device for measuring the diameter and detecting surface defects of moving wire. 4,659,937, 4-21-87, Cl. 250-560.000.
- Ciemiega, Jan A. Exercise device. 4,695,049, 9-22-87, Cl. 272-67.000.
- Ciepiela, Edmund J.; and Larocque, Ronald L., to Hankin Management Services Ltd. Waste water treatment. 4,676,908, 6-30-87, Cl. 210-638.000.
- Cieplak, Joseph: *See—*
  - Tobolski, Edward; Grosso, Ronald F.; Cieplak, Joseph; Lang, Elliot; and Hershberger, Ralph, 4,667,509, Cl. 73-83.000.
- Cieplinski, Daniel: *See—*
  - Dalibout, Georges; Grenier, Michel; and Cieplinski, Daniel, 4,703,623, Cl. 60-577.000.
- Cieslak, Leonard. Portable heater for wearing apparel. 4,685,442, 8-11-87, Cl. 126-204.000.
- Cieslak, Ronald H.: *See—*
  - Kloker, Kevin L.; and Cieslak, Ronald H., 4,713,790, Cl. 364-784.000.
- Ciez, Albert P.: *See—*
  - Kasner, William H.; Cooper, Martin H.; Swenson, Clark E.; Ciez, Albert P.; and Andrews, Katherine M., 4,683,365, Cl. 219-121.0LC.
- Cifrese, Ralph: *See—*
  - Bunick, Frank J.; Hutchinson, Sheryl A.; and Cifrese, Ralph, 4,714,620, Cl. 426-572.000.
- Ciga-Geiby Corporation: *See—*
  - Artz, Klaus; Meyer, Hans R.; Reinehr, Dieter; and Weber, Kurt, 4,684,744, Cl. 558-388.000.
- Ciga-Geigy Corporation: *See—*
  - Topfl, Werner, 4,639,264, Cl. 71-87.000.
- Cigdem, Safiet; Lichnofsky, Rudiger; and Martin, Harry, to Bayerische Motoren Werke Aktiengesellschaft. Fluid friction clutch, utilizing fluid shear force between clutch plates and camming of plates together to increase fluid shears forces, especially for differential gears of motor vehicles. 4,683,998, 8-4-87, Cl. 192-58.00C.
- Cigna, Paolo, to Comau S.p.A. Manipulator robot, more particularly for transferring sheet metal elements from a pressing station to the

next pressing station of a pressing line. 4,661,040, 4-28-87, Cl. 414-744.00R.

Cignarella, Giorgio; Gandolfi, Carmelo A.; Tofanetti, Odoardo; Cipolla, Piervitto; and Tognella, Sergio, to Boehringer Biochemia Robin, S.p.A. Tricyclic dihydropyridazinones and pharmaceutical compositions containing them. 4,692,447, 9-8-87, Cl. 514-248.000.

Cigognetti, Edoardo. Removable connection of a rigid deck and rigid keel to the covers of an inflatable boat. 4,667,618, 5-26-87, Cl. 114-345.000.

Cigolini, Flavio. Orthopaedic safety strap suitable for bicycle pedals. 4,638,685, 1-27-87, Cl. 74-594.600.

Cigolotti, Jean-Pierre; and Leblanc, Jean, to Robert Bosch GmbH. Apparatus for adjusting the spring characteristic of a helical spring. 4,634,109, 1-6-87, Cl. 267-170.000.

Cihi, Guy: *See—*
- Thoben, Matthew A.; Clowers, Earl; Cihi, Guy; Ball, Dean; McCurdy, Jack L.; and Rummelsburg, Al S., 4,645,909, Cl. 219-411.000.

CII Honeywell Bull (Societe Anonyme): *See—*
- Barski, Guy, 4,636,891, Cl. 360-97.000.
- Droux, Jacques; and Langrenne, Albert, 4,646,192, Cl. 360-133.000.
- Guerin, Christophe, 4,646,108, Cl. 346-74.700.
- Gueugnon, Catherine; and Bernstein, Pierre, 4,666,789, Cl. 428-611.000.
- Magnenet, Jean, 4,657,416, Cl. 400-119.000.
- Mollier, Jean, 4,683,553, Cl. 380-4.000.
- Ugon, Michel, 4,656,342, Cl. 235-379.000.

Cikes, Ivo: *See—*
- Breyer, Branko; and Cikes, Ivo, 4,697,595, Cl. 128-660.000.
- Breyer, Branko; Cikes, Ivo; and Ferek-Petric, Bozidar, 4,706,681, Cl. 128-642.000.

Cilag, AG: *See—*
- Niederer, Roland R.; and Zuiliger, Hans W., 4,698,359, Cl. 514-396.000.

Cilco, Inc.: *See—*
- Callahan, Wayne B.; Koch, Harold O.; Palin, Philip R.; and Cook, James R., 4,638,056, Cl. 536-54.000.
- Kaplan, David G.; Pazirandeh, Said; Alvarado, Mario M.; and Attal, Lucien, 4,668,446, Cl. 264-1.700.

Ciletti, Guy D.; and Trudeau, Michael J. Security box. 4,694,668, 9-22-87, Cl. 70-63.000.

Cills, Howard R. Dental impression tray. 4,652,237, 3-24-87, Cl. 433-37.000.

Cimarusti, Christopher M.: *See—*
- Moniot, Jerome L.; Cimarusti, Christopher M.; and Fox, Rita T., 4,704,457, Cl. 540-355.000.

Cimbala, Matthew G.: *See—*
- McNally, Paul F.; Allen, Spencer W.; and Cimbala, Matthew G., 4,701,839, Cl. 364-167.000.

Cimber, Hugo. Intrauterine contraceptive device. 4,715,365, 12-29-87, Cl. 128-130.000.

Cimenti, Antonio: *See—*
- Bellotto, Carlo; Cimenti, Antonio; and Polo, Ermes, 4,636,164, Cl. 425-337.000.

Ciminelli, Michael A.: *See—*
- Derleth, James L.; and Ciminelli, Michael A., 4,683,756, Cl. 73-747.000.

Cimino, Michael B.; and Gearing, Gregory M., to United States of America, Air Force. Low impedance filter battery with effective electrolyte seal. 4,650,733, 3-17-87, Cl. 429-153.000.

Cimino, Michael B.; and Gearing, Gregory M., to United States of America, Air Force. Power supply filtering with rechargeable battery element. 4,700,122, 10-13-87, Cl. 320-61.000.

Cimline, Inc.: *See—*
- Shope, Leonard L.; and Mertes, Anthony J., 4,676,557, Cl. 299-39.000.

Cimsa Sintra (S.A.): *See—*
- Mouchotte, Daniel G. E., 4,710,617, Cl. 235-487.000.

Cinaili, James A., to North American Philips Corporation. Expandable starting aid ring for fluorescent lamp. 4,701,667, 10-20-87, Cl. 313-594.000.

Cincinnati Butchers' Supply Company, The: *See—*
- Getz, Donald J., 4,653,148, Cl. 17-20.000.
- Swilley, Wilson H., 4,646,646, Cl. 104-100.000.
- Swilley, Wilson H., 4,653,145, Cl. 17-1.00R.
- Swilley, Wilson H., 4,653,149, Cl. 17-21.000.
- Swilley, Wilson H., 4,707,885, Cl. 17-21.000.

Cincinnati Electronics Corporation: *See—*
- Hill, Terrance J., 4,658,436, Cl. 380-31.000.

Cincinnati Microwave, Inc.: *See—*
- Furnish, Gregory R., 4,686,499, Cl. 333-230.000.
- Washburn, Clyde, Jr., 4,679,247, Cl. 455-210.000.

Cincinnati Milacron Inc.: *See—*
- Bailey, Edward J., 4,642,212, Cl. 264-262.000.
- Bannister, Robert D., 4,661,681, Cl. 219-121.0LU.
- Bhatia, Madhukar; and Resnick, Brian J., 4,635,206, Cl. 364-474.000.
- Broome, Peter F., 4,636,938, Cl. 364-191.000.
- French, Daniel B.; Brookshire, Richard E.; and Schnelle, Joseph W., 4,685,067, Cl. 364-513.000.
- Gibbemeyer, Joseph F., 4,678,425, Cl. 425-522.000.
- Gibbemeyer, Joseph F., 4,694,951, Cl. 198-468.300.
- Kamman, Joseph T., 4,664,536, Cl. 384-99.000.
- Loscei, Anthony A., 4,685,876, Cl. 425-170.000.
- Mayfield, Ralph W., 4,677,869, Cl. 74-424.80R.
- McDonald, David I., 4,635,788, Cl. 198-848.000.
- Monteith, Robert C.; and Borgmann, Robert E., 4,695,701, Cl. 219-121.0LV.
- Monteith, Robert C.; and Borgmann, Robert E., 4,698,482, Cl. 219-121.0LV.
- Monteith, Robert C.; and Borgmann, Robert E., 4,707,585, Cl. 219-121.0LV.
- Wilkerson, James R., 4,711,985, Cl. 219-121.0LB.
- Witzel, John R.; and Weisgerber, Paul J., 4,712,9 Cl. 409-131.000.

Cincinnati Mine Machinery Company, The: *See—*
- Sterwerf, Lester J., Jr., 4,674,803, Cl. 299-82.000.

Cincinnati-Vulcan Company: *See—*
- Sturwold, Robert J., 4,675,125, Cl. 252-118.000.

Cincotta, Anthony H.: *See—*
- Meier, Albert H.; and Cincotta, Anthony H., 4,659,715, Cl. 514-288.000.

Cincotta, Louis: *See—*
- Oseroff, Allan; Foley, James; Cincotta, Louis; and Parrish, John A., 4,651,739, Cl. 128-395.000.

Cindric, Joseph M.; and Cindric, Mary T. Multi-support display stand for human-shaped figures. 4,706,915, 11-17-87, Cl. 248-122.000.

Cindric, Mary T.: *See—*
- Cindric, Joseph M.; and Cindric, Mary T., 4,706,915, Cl. 248-122.000.

Cinemotion Pty. Ltd.: *See—*
- Browning, Michael R.; Cronk, Evelyn L.; and Adams, Phillip A., 4,642,945, Cl. 52-10.000.

Cingone, James, to James Industries Inc. Lens pattern blank. 4,656,754, 4-14-87, Cl. 33-507.000.

Cini, Carlo; Diazzi, Claudio; and Erratico, Pietro, to SGS Microelettronica S.p.A. Limited output operational amplifier. 4,672,326, 6-9-87, Cl. 330-254.000.

Cini, Carlo; Diazzi, Claudio; and Erratico, Pietro, to SGS Microelettronica S.p.A. Apparatus and method for muting an output signal a switching amplifier. 4,673,889, 6-16-87, Cl. 330-10.000.

Cini, Carlo; Diazzi, Claudio; and Erratico, Pietro, to SGS Microelettronica S.p.A. Monolithically integratable high-efficiency control circuit for switching transistors. 4,698,519, 10-6-87, Cl. 307-254.000.

Cini, Carlo: *See—*
- Villa, Flavio; Murari, Bruno; Cini, Carlo; and Bertotti, Franco, 4,672,235, Cl. 307-255.000.

Ciniglio, Alexander J.; and Tombs, Michael, to Dolphin Machinery Limited. Soldering apparatus. 4,651,916, 3-24-87, Cl. 228-37.000.

Ciniglio, Alexander J., to Dolphin Machinery Limited. Soldering apparatus. 4,700,878, 10-20-87, Cl. 228-37.000.

Cinoman, Douglas S.: *See—*
- Clikeman, Richard R.; Cinoman, Douglas S.; and Weiler, Ernst D., 4,650,824, Cl. 524-457.000.

Cinpinski, Kenneth J., to General Motors Corporation. LPP combustion control for IC engine with abnormal combustion. 4,711,215, 12-8-87, Cl. 123-425.000.

Cinqualbre, Paul-Henri. Method and apparatus for displaying particle sedimentation rates in liquids. 4,710,874, 12-1-87, Cl. 364-413.000.

Cinram Ltd./Ltee.: *See—*
- Philosophe, Isidore, 4,702,369, Cl. 206-312.000.

Cinzori, Robert J., to Hughes Aircraft Company. Apparatus and method for nighttime and low visibility alignment of communicators. 4,684,248, 8-4-87, Cl. 356-152.000.

Cinzori, Robert J.: *See—*
- Kern, Mark T.; and Cinzori, Robert J., 4,647,776, Cl. 250-339.000.
- Kern, Mark T.; Cinzori, Robert J.; and Fuller, William D., 4,655,607, Cl. 374-4.000.
- Kern, Mark T.; and Cinzori, Robert J., 4,679,156, Cl. 364-551.000.

Ciocan, Dan N., to Conrac Corporation. System for stabilizing cathode emissions with an in-line gun cathode ray tube. 4,705,992, 11-10-87, Cl. 315-383.000.

Ciocan, Dan N.: *See—*
- Thomsen, Paul M.; and Ciocan, Dan N., 4,700,218, Cl. 358-29.000.

Ciocarelli, Mary E.; and Palmer, Nancy P., to W. H. Brady Co. Adhesive tape dispenser package with interlocking cover members. 4,676,446, 6-30-87, Cl. 242-55.530.

Ciociola, Edward M. Dollhouse jewelry box. 4,662,519, 5-5-87, Cl. 206-457.000.

Cioffi, Dominic A. Truck mounted roller. 4,702,6[illegible], 10-27-87, Cl. 404-128.000.

Cioffi, Paul L.; Donahoe, Thomas S.; and Keith, George R., to Babcock & Wilcox Company, The. Adjustable conical atomizer. 4,655,395, 4-7-87, Cl. 239-427.000.

Cioffi, Victor E., to Nabisco Brands, Inc. Modular wall system. 4,713,918, 12-22-87, Cl. 52-221.000.

Ciongoli, Bernard M., to Ampower Technologies, Inc. Three-dimensional spatial image system. 4,692,878, 9-8-87, Cl. 364-518.000.

Ciordinik, Federico: *See—*
- Ciordinik, Jacques; Ciordinik, Federico; and Penzo, Alessandro, 4,676,485, Cl. 256-12.000.

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  Marrocco, Matthew L., 4,664,194, Cl. 166-295.000.
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  Pennington, B. Timothy; Roling, Paul V.; and Hsieh, John T. T., 4,665,140, Cl. 526-86.000.
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  Fukuzawa, Takahiko; and Kitahara, Kiyoshi, 4,691,364, Cl. 382-41.000.
  Hashimoto, Shingo; Sunaga, Kazuyuki; and Kasugai, Kaoru, 4,682,254, Cl. 360-103.000.
  Iinuma, Yoshio, 4,628,074, Cl. 357-79.000.
  Ikeda, Hiroshi, 4,637,537, Cl. 226-76.000.
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  Ikeda, Hiroshi, 4,653,948, Cl. 400-335.000.
  Ikehata, Tsutomu; Masuda, Katsuya; Yasunaga, Makoto; and Michioto, Takao, 4,687,355, Cl. 400-124.000.
  Ito, Katsu; Shinabe, Munehiro; Miyajima, Akira; Hashimoto, Nobuyuki; Ohno, Hideshi; Tsuzuki, Akira; Morokawa, Shigeru; and Natori, Minoru, 4,663,670, Cl. 358-245.000.
  Ito, Katsu, 4,694,347, Cl. 358-236.000.
  Iwako, Akinobu, 4,706,005, Cl. 318-603.000.
  Kamiya, Kiyoshi, 4,635,115, Cl. 358-153.000.
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  Kamiya, Kiyoshi, 4,701,796, Cl. 358-154.000.
  Kaneko, Masahiko; Kunita, Masao; and Ohsawa, Seiichi, 4,650,348, Cl. 400-22.000.
  Kimura, Sosaku; Hatsuse, Toshikazu; Shimizu, Masami; Miyashita, Masakazu; Yoshioka, Junichi; Kanai, Akira; and Koizumi, Koichi, 4,656,951, Cl. 108-20.000.
  Kimura, Sosaku, 4,667,445, Cl. 51-131.100.
  Kume, Kazunari, 4,669,010, Cl. 360-99.000.
  Kurafuji, Hiroshi, 4,686,594, Cl. 360-99.000.
  Kurakata, Ryo, 4,643,952, Cl. 428-472.000.
  Kushida, Hachiro, 4,640,625, Cl. 368-280.000.
  Masubuchi, Sadao, 4,652,912, Cl. 358-59.000.
  Masubuchi, Sadao, 4,662,718, Cl. 350-332.000.
  Masubuchi, Sadao, 4,711,531, Cl. 350-350.00S.
  Matsumoto, Hisayoshi, 4,705,412, Cl. 400-54.000.
  Miyajima, Akira; Tsuzuki, Akira; Ohno, Hideshi; Futakami, Shigeru; Ogura, Takashi; Oguchi, Toshiaki; Yoshida, Masaru; Kimura, Satoshi; Takahashi, Kotaro; Sakamoto, Hiroya; and Nakajima, Koichi, 4,652,932, Cl. 358-236.000.
  Morimoto, Atsutaka; and Takahashi, Shoji, 4,636,905, Cl. 360-137.000.
  Morimoto, Atsutaka, 4,684,864, Cl. 318-696.000.
  Moriya, Mikio; and Kinoshita, Teruo, 4,647,237, Cl. 400-124.000.
  Moriya, Takashi; Yasunaga, Makoto; Ueda, Masahiko; and Yamamoto, Tetsuya, 4,647,236, Cl. 400-124.000.
  Morokawa, Shigeru, 4,679,043, Cl. 340-784.000.
  Murakami, Tomomi; Kihara, Hiroyuki; and Mitaki, Kazuya, 4,668,100, Cl. 368-[illegible].000.
  Murata, Mitsuhiro, 4,642,628, Cl. 340-784.000.
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  Nabeyama, Takatoshi; and Sakita, Eiichi, 4,681,459, Cl. 368-16.000.
  Nagashima, Mitsuyoshi; Hatsuse, Toshikazu; Miyashita, Masakazu; and Kanai, Akira, 4,653,408, Cl. 108-20.000.

Nakai, Toshihiko, 4,639,650, Cl. 318-333.000.
Nakai, Toshihiko; and Kaneko, Masahiko, 4,640,635, Cl. 400-664.000.
Nakamura, Seiichi, 4,675,955, Cl. 24-656.000.
Nihira, Shohachi, 4,663,982, Cl. 74-574.000.
Nikaido, Akira, 4,636,668, Cl. 310-49.00R.
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Shiba, Kazuo, 4,669,359, Cl. 91-361.000.
Suganuma, Kunio, 4,698,710, Cl. 360-106.000.
Sugimoto, Kenji, 4,638,693, Cl. 82-2.500.
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Tanabe, Hiroshi; Yamamoto, Etsuo; Togashi, Seigo; Sekiguchi, Kanetaka; Aota, Katsumi; and Sorimachi, Kazuaki, 4,673,253, Cl. 350-339.00F.
Togashi, Seigo, 4,635,127, Cl. 358-236.000.
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Watanabe, Haruo; Tajima, Eiichi; Matsunaga, Masaaki; Hirohara, Toshihide; Iinuma, Yoshio; Ando, Naotake; Takahashi, Shigeyuki; and Takahashi, Teruaki, 4,643,526, Cl. 350-332.000.
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Hawkins, Richard A.; and Hunter, Merle D., 4,694,757, Cl. 110-271.000.

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Reese, James R.; and Yelich, William, 4,696,321, Cl. 137-202.000.
Seltzer, Clyde W., 4,715,578, Cl. 251-25.000.

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Ackermann, Gustav, 4,703,605, Cl. 53-176.000.
Bruer, Dirk; Tooten, Karl-Heinz; and Freye, Theo, 4,686,812, Cl. 53-118.000.
Busse, Winfried; Freye, Theodor; Tooten, Karl-Heinz; and Clostermeyer, Gerhard, 4,656,812, Cl. 53-399.000.
Clostermeyer, Gerhard; Konekamp, Werner; and Tooten, Karl-Heinz, 4,635,543, Cl. 100-89.000.
Freye, Theodor; and Heidjann, Franz, 4,693,259, Cl. 130-27.00R.
Roderfeld, Heinrich; and Dammann, Johannes, 4,700,717, Cl. 130-27.00T.
Rupprecht, Karl, 4,640,085, Cl. 56-14.600.
Rupprecht, Karl, 4,665,685, Cl. 56-208.000.
Tertilt, Werner, 4,662,275, Cl. 100-89.000.
Tophinke, Franz, 4,653,515, Cl. 130-27.00T.

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Arnold, Rudolf, 4,633,657, Cl. 56-98.000.

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Delwel, Francois; and Claassens, Marinus L. M., 4,637,891, C 252-135.000.

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Roman, Gianfranco; Da Rold, Claudio; and Spadotto, Olivian 4,686,729, Cl. 15-29.000.
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Claborn, Morris W., to Wedger, Inc. Apparatus for converting a flex ble line trimmer for use as a lawn edger. 4,712,363, 12-15-87, C 56-16.700.

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Ulam, John B., 4,646,935, Cl. 220-453.000.

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Lilley, Raymond A., 4,691,491, Cl. 52-481.000.

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Claesen, Christianus A. A.: *See—*
Tesser, Godefridus I.; and Claesen, Christianus A. A., 4,692,542, C 558-184.000.

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Clagett, Donald C.: *See—*
Takekoshi, Tohru; Clagett, Donald C.; and Cooper, Stephen M 4,634,760, Cl. 528-353.000.

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Ottengraf, Simon P. P., 4,662,900, Cl. 55-90.000.

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Robings, Kenneth W., 4,705,374, Cl. 354-225.000.

Clairmont, Gregory P.; and Woodward, Sheila E. Medical exerc apparatus. 4,688,794, 8-25-87, Cl. 272-93.000.

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Haastrup, Henrik K., 4,647,757, Cl. 219-370.000.
Mack, William, 4,647,755, Cl. 219-222.000.
Morrison, Herbert M.; and Del Mar, Jorge, 4,714,820, C 219-222.000.
Pereira, Joseph J.; Delia, Anthony D.; and Miller, Scott W 4,664,288, Cl. 220-209.000.
Pereira, Joseph J.; Taylor, Malcolm E.; and Sawaf, Bernard 4,682,689, Cl. 206-222.000.
Skovdal, Jorgen; Santhouse, Daniel; Jensen, Borge; and Carlucc Vito, 4,680,444, Cl. 219-222.000.
Wolfram, Leszek J.; and Cohen, David, 4,663,158, Cl. 424-70.0

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Bustos, Rafael T.; and Taylor, William B., 4,708,552, C 411-60.000.
Muth, William, 4,693,380, Cl. 211-35.000.

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  - Pate, Ebb W., 4,646,998, Cl. 248-250.000.
- Clamco Corporation: *See—*
  - Walkiewicz, Zigmunt J., Jr.; and Lynch, William C., 4,712,459, Cl. 83-171.000.
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- Clancy, Patrick J. Pedal keyboard operated musical instrument. 4,658,696, 4-21-87, Cl. 84-444.000.
- Clandinin, Michael T.; and Chappell, Janet E., to University of Toronto Innovations Foundation, The. Infant formula. 4,670,285, 6-2-87, Cl. 426-602.000.
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- Clapham, William S., to Hall & Pickles Limited. Mineral cutter pick. 4,657,308, 4-14-87, Cl. 299-81.000.
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- Clapp, David D., to Wakefield Corporation, The. Bottle opener. 4,653,354, 3-31-87, Cl. 76-101.00D.
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  - Baldwin, John J.; McClure, David E.; and Claremon, David A., 4,677,102, Cl. 514-218.000.
- Clarenz, Werner: *See—*
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  - Hunter, Victor L.; and Fisher, Alan D., 4,702,064, Cl. 56-312.000.
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  - Mitsutsuka, Syuichi, 4,647,881, Cl. 333-194.000.
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  - Teraguchi, Yuji; and Endo, Sadayoshi, 4,672,484, Cl. 360-96.300.
  - Tomizawa, Akimori, 4,688,248, Cl. 380-20.000.
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  - Yamaguchi, Katsumi; Yokoi, Syouichiro; Kanai, Takao; and Yoshikawa, Kikuo, 4,708,302, Cl. 242-204.000.
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- Clark, Adrian P.; and Hau, Sau F., to National Research Development Corporation. Apparatus and method for adjusting the receivers of data transmission channels. 4,701,936, 10-20-87, Cl. 375-14.000.
- Clark, Alan T.; Ibrahim, Hadi; and Lange, Arthur F., to Advanced Micro Devices, Inc. Digital subscriber controller. 4,635,255, 1-6-87, Cl. 370-110.100.
- Clark, Alonzo W., IV: *See—*
  - Copley, Michael C.; and Clark, Alonzo W., IV, 4,702,614, Cl. 368-72.000.
- Clark, Anthony F. C.: *See—*
  - Rohsler, Ivor C.; and Clark, Anthony F. C., 4,642,671, Cl. 357-79.000.
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- Clark, Bernal H., Jr. Turn signal lever repair mounting. 4,700,033, 10-13-87, Cl. 200-332.000.
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- Clark, Charles A., Jr.: *See—*
  - Aires, Ramon H.; Clark, Charles A., Jr.; Ito, Roy A.; and Hackett, Kenneth R., 4,649,385, Cl. 379-57.000.
- Clark, Charles W.: *See—*
  - Lucatorto, Thomas B.; Clark, Charles W.; and Whitaker, Tom J., 4,634,864, Cl. 250-282.000.
- Clark, Clarence E., Jr.; and Fayter, Richard G., Jr., to National Distillers and Chemical Corporation. Synthesis of high-purity dialkyl 2-vinylcyclopropane-1,1-dicarboxylate. 4,713,479, 12-15-87, Cl. 560-124.000.
- Clark, Clement P. Card user identification system. 4,636,622, 1-13-87, Cl. 235-380.000.
- Clark, Danford E., to Union Oil Company of California. Hydrocracking catalyst of improved activity. 4,689,137, 8-25-87, Cl. 208-89.000.
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- Clark, Danny L.; Woodard, Robert W.; and Zorc, Philip A., to Outboard Marine Corporation. Spark timing control for marine propulsion devices. 4,703,731, 11-3-87, Cl. 123-413.000.
- Clark, Daren A.: *See—*
  - Parker, Delbert R.; and Clark, Daren A., 4,686,502, Cl. 337-252.000.
- Clark, Darrel E.: *See—*
  - Brown, Gregory D.; Clark, Darrel E.; and Schuermann, Rodger W., 4,694,692, Cl. 73-155.000.
- Clark, David G., to U.S. Philips Corporation. Device for generating a 2-axis control signal. 4,692,756, 9-8-87, Cl. 340-709.000.
- Clark, David I., to General Motors Corporation. Garment hanger for motor vehicle. 4,664,267, 5-12-87, Cl. 211-94.000.

Clark, David W.; and Freedman, Morton, to RCA Corporation. Optical fiber assembly and optically coupled device package including same. 4,708,429, 11-24-87, Cl. 350-96.200.

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Clark, Douglas A. Support for mounting grooming items on the outside of cans containing grooming products. 4,646,999, 3-3-87, Cl. 248-360.000.

Clark, Douglas C.: *See—*
- Roberts, Donald L.; Angel, Anthony L.; Clark, Douglas C.; Clearman, Jack F.; and Sink, T. Stephen, 4,638,820, Cl. 131-336.000.
- Saintsing, Barry L.; Clark, Douglas C.; and Weber, John D., 4,648,413, Cl. 131-336.000.

Clark, Edward A.: *See—*
- Rose, Lynn M.; Clark, Edward A.; and Ledbetter, Jeffrey A., 4,677,061, Cl. 435-39.000.

Clark Equipment Company: *See—*
- Chucta, Michael, 4,669,047, Cl. 364-468.000.
- Link, David H.; and Lopez, Juan R., 4,711,467, Cl. 280-785.000.
- Tamas, Attila J., 4,682,751, Cl. 248-503.000.
- Trusock, George J., 4,658,189, Cl. 318-52.000.
- Trusock, George J., 4,665,698, Cl. 60-422.000.
- Williamson, William A., 4,649,705, Cl. 60-420.000.

Clark, Erin C. Free standing wall structures. 4,664,358, 5-12-87, Cl. 256-19.000.

Clark, Erin C.; and Pyne, Graham F. Cribwalling. 4,664,562, 5-12-87, Cl. 405-273.000.

Clark, Frank J.: *See—*
- Cole, William M.; Fenske, Steven L.; Serbin, David J.; Malani, Shrikant R.; Clark, Frank J.; and Beattie, Joanne L., 4,681,929, Cl. 528-493.000.

Clark, Franklin D.: *See—*
- Klinker, Ronald D.; Clark, Franklin D.; and Klinker, Patricia K., 4,699,596, Cl. 440-39.000.

Clark, Garry E. Fluid driven power plant. 4,637,209, 1-20-87, Cl. 60-595.000.

Clark, Gary E., to Gilmore, G. W.; and Heywood, R. G., part interest to each. Combination toy and game. 4,638,997, 1-27-87, Cl. 273-1.0GD.

Clark, Gary T.: *See—*
- Weaver, Max A.; Clark, Gary T.; and Eller, Bill A., 4,650,861, Cl. 534-777.000.

Clark, Gaylord J. Adjustable length finishing pad. 4,653,135, 3-31-87, Cl. 15-230.160.

Clark, George B., to Dow Chemical Company, The. Support for tubesheets in hollow fiber permeators. 4,668,395, 5-26-87, Cl. 210-321.100.

Clark, George T.: *See—*
- Mowatt, Harry C.; MacDonnell, Alfred T.; and Clark, George T., 4,706,406, Cl. 43-61.000.

Clark, Gerald L. Truss building system. 4,656,792, 4-14-87, Cl. 52-93.000.

Clark-Goffi, Deborah E.: *See—*
- Goffi, Carlo P.; and Clark-Goffi, Deborah E., 4,715,646, Cl. 296-136.000.

Clark, Gregory J.; Chaudhari, Praveen; Cuomo, Jerome J.; Frisch, Margaret A.; and Speidell, James L., to International Business Machines. Spherical retarding grid analyzer. 4,714,831, 12-22-87, Cl. 250-305.000.

Clark, H. Fred: *See—*
- Plotkin, Stanley A.; and Clark, H. Fred, 4,636,385, Cl. 424-89.000.

Clark, Harry I. Apparatus for removing roofing material. 4,664,447, 5-12-87, Cl. 299-[illegible]9.000.

Clark, Howard W., to Dow Chemical Company, The. Inorganic anion exchangers and preparation thereof. 4,661,282, 4-28-87, Cl. 252-179.000.

Clark, James A.; and Dobner, Michael H., to Bausch & Lomb Incorporated. Cable drive focusing mechanism for optical instruments. 4,684,225, 8-4-87, Cl. 350-518.000.

Clark, James A.; and Emmel, Henry J., to Bausch & Lomb Incorporated. Zoom microscope having a crank and linkage mechanism. 4,690,519, 9-1-87, Cl. 350-515.000.

Clark, James A., to Bausch & Lomb Incorporated. Auxiliary adjusting mechanism for optical instruments. 4,704,013, 11-3-87, Cl. 350-530.000.

Clark, James B., to MicroComputer Accessories, Inc. Printer stand and paper refolding apparatus. 4,707,156, 11-17-87, Cl. 400-613.200.

Clark, James d'A. Method and apparatus for treating pulp. 4,685,623, 8-11-87, Cl. 241-21.000.

Clark, James L.: *See—*
- Bunting, John A.; Pope, Louis M.; and Clark, James L., 4,713,286, Cl. 428-323.000.

Clark, James M., to ITT Corporation. Encryption apparatus and method for raising a large unsigned integer to a large unsigned integer power modulo a large unsigned integer. 4,658,094, 4-14-87, Cl. 380-28.000.

Clark, James P.: *See—*
- Virnig, Michael J.; and Clark, James P., 4,639,540, Cl. 558-444.000.
- Virnig, Michael J.; Clark, James P.; and MacKay, Kenneth D., 4,647,688, Cl. 558-440.000.
- Wenzel, Bruce E.; and Clark, James P., 4,711,894, Cl. 514-458.000.

Clark, James W.: *See—*
- Brueggeman, Michael; Clark, James W.; and Phy, William S., 4,653,175, Cl. 29-574.000.

Clark, Jay A.: *See—*
- Siverson, Ronald A.; and Clark, Jay A., 4,664,030, Cl. 101-41.000.

Clark, Jeffrey; Finger, David; Vanover, Ron; and Egan, Mike, to Garrett Corporation, The. Dual alloy radial turbine rotor with hub material exposed in saddle regions of blade ring. 4,659,288, 4-21-87, Cl. 416-186.00R.

Clark, Jeffrey N.: *See—*
- Vashi, Dhru B.; Clark, Jeffrey N.; and Lindo, Neil A., 4,701,447, Cl. 514-45.000.

Clark, Jim C.; and Perrone, George L., to Garrett Corporation, The. Apparatus and methods for preventing compressor surge. 4,662,817, 5-5-87, Cl. 415-1.000.

Clark, Jimmy M.: *See—*
- Steenblik, Richard A.; Phillips, Asa R.; Mamay, Daniel P.; Denson, Lawrence K.; Tucker, Richard A.; and Clark, Jimmy M., 4,685,718, Cl. 296-154.000.

Clark, John A.: *See—*
- Vriens, Leendert; Clark, John A.; and Spruit, Johannes H. M., 4,683,398, Cl. 313-474.000.

Clark, John A., Jr., to Harsco Corporation. Double wall heat exchanger. 4,635,711, 1-13-87, Cl. 165-70.000.

Clark, John C., Jr.: *See—*
- Bamberger, Eric N.; Clark, John C., Jr.; and Nahm, Alexander H., 4,659,241, Cl. 384-625.000.

Clark, John F., to RCA Corporation. System for compensating polarization errors. 4,660,045, 4-21-87, Cl. 342-361.000.

Clark, John L., to Pitney Bowes Inc. System having a character generator for printing encrypted messages. 4,637,051, 1-13-87, Cl. 382-1.000.

Clark, John L.; Eckert, Alton B.; and Warren, David M., to Pitney Bowes Inc. System for the printing and reading of encrypted messages. 4,641,346, 2-3-87, Cl. 380-3.000.

Clark, John L.; and Dlugos, Daniel F., to Pitney Bowes Inc. System for printing encrypted messages with a character generator and bar-code representation. 4,641,347, 2-3-87, Cl. 380-3.000.

Clark, John L.: *See—*
- Stokes, John H.; Clark, John L.; Morris, James D.; and Ward, Steven M., 4,701,858, Cl. 364-483.000.

Clark, John L., Jr.: *See—*
- Bardo, Charles J.; Seawell, Jesse Q.; Dvlewski, Anthony J.; and Clark, John L., Jr., 4,637,903, Cl. 261-24.000.

Clark, John R.: *See—*
- Worsham, Richard H.; and Clark, John R., 4,647,759, Cl. 235-411.000.

Clark, John T.; and Shiffler, Donald A., to Du Pont de Nemours, E. I. and Company. Synthetic water-dispersible fiber. 4,707,407, 11-17-87, Cl. 428-361.000.

Clark, Keith R., to Rheem Manufacturing Company. Foam insulated tank. 4,687,118, 8-18-87, Cl. 220-444.000.

Clark, Kenneth R.: *See—*
- Kelly, John E.; Jones, Don C.; Tuck, Frederick R.; Zimmermann, William A.; and Clark, Kenneth R., 4,710,031, Cl. 356-440.000.

Clark, Larry T., to Boeing Company, The. Rotating polarizer angle sensing system. 4,688,934, 8-25-87, Cl. 356-34.000.

Clark, Lealand L. Treatment for inflammatory skin disease. 4,670,471, 6-2-87, Cl. 514-724.000.

Clark, Leigh B.; Fowell, Larry; and Hunter, Richard G. Proctologic device. 4,696,30[illegible], 9-29-87, Cl. 128-401.000.

Clark, Leland, Jr., to Children's Hospital Medical Center. Implantable gas-containing biosensor and method for measuring an analyte such as glucose. 4,680,268, 7-14-87, Cl. 435-291.000.

Clark, Leland C., Jr.: *See—*
- Tamborski, Christ; and Clark, Leland C., Jr., 4,640,833, Cl. 424-5.000.

Clark, Marion D.; and Anderson, C. Lawrence. Schottky barrier charge coupled device (CCD) manufacture. 4,692,993, 9-15-87, Cl. 437-53.000.

Clark, Maynard H. Puppet apparatus. 4,695,265, 9-22-87, Cl. 446-329.000.

Clark, Michael; and Taylor, Kenneth J., to Dunlop Limited. Vibration absorbing mountings. 4,641,817, 2-10-87, Cl. 267-140.100.

Clark, Michael, to Dunlop Limited. Vibration absorbing mountings. 4,682,753, 7-28-87, Cl. 248-562.000.

Clark, Michael J., to M-O Valve Company Limited, The. Magnetrons. 4,714,859, 12-22-87, Cl. 315-39.670.

Clark Michigan Company: *See—*
- Garman, Anthony L., 4,652,167, Cl. 403-158.000.
- Siewert, Robert L.; and Varnelis, Edmund K., 4,635,497, Cl. 74-473.0SW.

Clark, Neville J.: *See—*
- Baker, Bruce G.; Clark, Neville J.; McArthur, Hamish; and Summerville, Edward, 4,666,880, Cl. 502-302.000.

Clark, Patrick J.: *See—*
- Maroulis, Peter J.; Coe, Charles G.; Kuznicki, Steven M.; Clark, Patrick J.; and Roberts, David A., 4,713,362, Cl. 502-85.000.

Clark, Paul W.; and Gulliford, John S., to Clemco Industries. Hose coupling. 4,658,[illegible]26, 4-14-87, Cl. 361-215.000.

Clark, Peter J.; Hidd, Anthony W.; Bloor, Stephen T.; and Rolier, Erling, to IMI Refiners Ltd. Casting apparatus. 4,640,335, 2-3-87, Cl. 164-440.000.

Clark, Peter P.; and Plummer, William T., to Polaroid Corporation. Optical scanner having a multi-surfaced lens arrangement for producing a rotationally symmetric beam. 4,675,531, 6-23-87, Cl. 250-568.000.

Clark Pharmaceutical Laboratories Ltd.: *See—*
- Sandborn, Edmund, 4,652,557, Cl. 514-164.000.

Clark, Ray; and Selmer, Frank M., Jr., to Applied Power Inc. Hydraulic system for a mobile transport vehicle that supports and positions a load relative to a docking structure. 4,671,728, 6-9-87, Cl. 414-401.000.

Clark, Richard E.: *See—*

Kerins, Gerard J.; Collette, Wayne N.; Beck, Martin H.; Clark, Richard E.; Harry, Ieuan L.; Krishnakumar, Suppayan; Miller, Bryan H.; Nichols, Richard C.; Piccioli, David; Tacito, Louis D.; and Worsowicz, Eileene M., 4,665,682, Cl. 53-452.000.

Clark, Richard L.: *See—*

Farrow, Robert I.; and Clark, Richard L., 4,656,530, Cl. 360-15.000.

Kincheloe, David W.; and Clark, Richard L., 4,673,992, Cl. 360-15.000.

Clark, Richard N., to Tecla Company, Inc. Fold-down seat construction. 4,637,081, 1-20-87, Cl. 5-18.00R.

Clark, Robert. Bidirectional current time integration device. 4,679,000, 7-7-87, Cl. 324-428.000.

Clark, Robert A., Jr., to Communications Equipment and Engineering Co. Telephone pay station. 4,638,121, 1-20-87, Cl. 379-145.000.

Clark, Robert A., Jr.; and Brussels, Jay D., to Communications Equipment and Engineering Co. Credit card telephone station. 4,672,601, 6-9-87, Cl. 379-144.000.

Clark, Robert E., and Amos, Dennis R., to Westinghouse Electric Corp. Method for repairing a steam turbine or generator rotor. 4,633,554, 1-6-87, Cl. 29-156.40R.

Clark, Robert T., to Hughes Aircraft Company. Hybrid power combiner and amplitude controller. 4,697,160, 9-29-87, Cl. 333-103.000.

Clark, Robin; Muchowski, Joseph M.; Chiu, Fang-Ting; Gardner, John O.; and Berger, Jacob, to Syntex (U.S.A.) Inc. Tetrahydroisoquinoline derivatives. 4,667,038, 5-19-87, Cl. 546-145.000.

Clark, Robin; Muchowski, Joseph M.; Chiu, Fang-Ting; Gardner, John O.; and Berger, Jacob, to Syntex (U.S.A.) Inc. Method for treating cardiovascular disease with calcium channel antagonists. 4,681,889, 7-21-87, Cl. 514-307.000.

Clark, Robin D.; and Waterbury, L. David, to Syntex (U.S.A.) Inc. Arylalkyl amines useful for lowering intraocular pressure. 4,642,378, 2-10-87, Cl. 564-51.000.

Clark, Robin D.; and Povzhitkov, Moysey M., to Syntex (U.S.A.) Inc. Antihypertensive dihydropyridine compositions, optical isomers and intermediates. 4,672,071, 6-9-87, Cl. 514-356.000.

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Clark, Roger J.; Economy, James; Flandera, Mary A.; Susko, John R.; and Wheater, Robin A., to International Business Machines Corporation. Composition, coated article and method of coating. 4,690,962, 9-1-87, Cl. 524-94.000.

Clark, Roger L.; Ray, Dennis D.; and Martin, James L., to General Telephone Company of Indiana. Unitary telephony frame arm extender. 4,641,338, 2-3-87, Cl. 379-328.000.

Clark, Roger T., to Pennwalt Corporation. Purification of organosulfonyl halides. 4,683,090, 7-28-87, Cl. 260-543.00R.

Clark, Ronald K.: *See—*

Unnam, Jalaiah; and Clark, Ronald K., 4,681,818, Cl. 428-607.000.

Clark, Ronald L.: *See—*

Prince, Paul R.; and Clark, Ronald L., 4,657,529, Cl. 604-6.000.

Clark, Ronald M. Multi-size grout striking tool. 4,698,870, 10-13-87, Cl. 15-105.500.

Clark, Ronnie W.; and Ameling, Dale P., to Champion Spark Plug Company. Method for producing a composite spark plug center electrode. 4,684,352, 8-4-87, Cl. 445-7.000.

Clark, Ross C.: *See—*

Sanderson, George R.; Clark, Ross C.; Clare, Ken; and Pettitt, David J., 4,647,470, Cl. 426-573.000.

Clark, Ross P.: *See—*

Chung, Fred C.; and Clark, Ross P., 4,659,627, Cl. 428-447.000.

Karle, Dennis W.; Payne, Zie A.; Chung, Fred C.; and Clark, Ross P., 4,686,146, Cl. 428-425.900.

Clark, Roy A., Jr.; and Yant, Howard W., to Westinghouse Electric Corp. Sealoff device and method for controlling the level of a fluid within first and second communicating confined regions. 4,703,936, 11-3-87, Cl. 277-1.000.

Clark, Ruel, to Electro Controls Inc. Method and apparatus for dimming fluorescent lights. 4,651,060, 3-17-87, Cl. 315-199.000.

Clark, Rupert D.: *See—*

Atteberry, Jack H., and Clark, Rupert D., 4,644,639, Cl. 29-589.000.

Clark, Stephen C., to Strippit/Di-Acro-Houdaille, Inc. Automatic load unload turret punch. 4,690,021, 9-1-87, Cl. 83-71.000.

Clark, Stephen C., to Strippit/Di-Acro-Houdaille, Inc. Method of working sheet material workpieces by a sheet material working machine tool. 4,709,605, 12-1-87, Cl. 83-23.000.

Clark, Steven C.; Kaufman, Randal J.; and Wong, Gordon G., to Genetics Institute, Inc. Method for identification and isolation of DNA encoding a desired protein. 4,675,285, 6-23-87, Cl. 435-6.000.

Clark, Stewart A.: *See—*

Carson, John C.; and Clark, Stewart A., 4,646,128, Cl. 357-74.000.

Carson, John C.; and Clark, Stewart A., 4,672,737, Cl. 29-572.000.

Clark, Susan A. Coordinated nursing slip and bra. 4,648,404, 3-10-87, Cl. 128-455.000.

Clark, Teddy R.: *See—*

Stewart, John M.; Clark, Teddy R.; and Edging, Thomas E., 4,684,512, Cl. 423-321.00R.

Clark, Terence J.; and Johnson, Robert E., to Celanese Corporation. Fabrication of SiC - AlN alloys. 4,687,657, 8-18-87, Cl. 423-412.000.

Clark, Thomas R. Locator and fixture assembly. 4,689,891, 9-1-87, Cl. 33-529.000.

Clark, Vincent M., Jr.; Bourgeois, David R.; Chasse, Dennis W.; and Comins, Todd R., to Honeywell Information Systems Inc. Data collection terminal interrupt structure. 4,669,057, 5-26-87, Cl. 364-900.000.

Clark, William A.; and Pregozen, David, to Sterling Drug Inc. Premoistened, streak-free, lint-free hard surface wiping article. 4,666,621, 5-19-87, Cl. 252-91.000.

Clark, William E., to Carrier Corporation. Thermostatic transducer. 4,659,010, 4-21-87, Cl. 236-87.000.

Clark, William M., Jr.; Utlaut, Mark W.; Wysocki, Joseph A.; Storms, Edmund K.; Szklarz, Eugene G.; Behrens, Robert G.; Swanson, Lynwood W.; and Bell, Anthony E., to Hughes Aircraft Company. Liquid metal ion source and alloy for ion emission of multiple ionic species. 4,670,685, 6-2-87, Cl. 313-230.000.

Clark, William M., Jr.: *See—*

McKenna, Charles M.; Sharapata, Irwin R.; and Clark, William M., Jr., 4,686,414, Cl. 313-362.100.

Clark, William S., Jr.: *See—*

Foxworthy, Neal E.; Clark, William S., Jr.; Schossow, Stephen R.; and Gabbay, Robert J., 4,672,613, Cl. 371-38.000.

Clark, William T., III. Hot wire cutting system. 4,699,032, 10-13-87, Cl. 83-171.000.

Clark, William T., III. Method for automatically indexing cast field shaping blocks to a radiation therapy treatment tray and a cooling tray for cast blocks. 4,700,451, 10-20-87, Cl. 29-527.500.

Clark, William U.: *See—*

Bennett, Roy L.; Cianciosi, James A.; and Clark, William U., 4,707,928, Cl. 33-491.000.

Clarke, Alan: *See—*

Taylor, Peter J.; Clarke, Alan; and Thompson, John S., 4,691,510, Cl. 60-39.094.

Clarke, Allen P.: *See—*

Marwood, Warren; and Clarke, Allen P., 4,698,807, Cl. 371-11.000.

Clarke, Alvin W.; and Collins, Arville J., to Rotary Marine, Inc. Marine air conditioning heat exchanger. 4,674,293, 6-23-87, Cl. 62-240.000.

Clarke, Aubrey R.; Martin, Colin L.; and Bowering, Robert H., to Mobil Oil Corporation. Asphalt coating method. 4,692,350, 9-8-87, Cl. 427-138.000.

Clarke, Brian P.; Harbridge, John B.; and Stirling, Irene, to Beecham Group p.l.c. A-deoxy-a-aza derivatives of clavulanic acid, a process for their preparation and their use. 4,652,560, 3-24-87, Cl. 514-210.000.

Clarke, Charles J., Jr.; and Staggs, Kevin P., to Honeywell Inc. Method and apparatus for generating cursors for a raster graphic display. 4,668,947, 5-26-87, Cl. 340-709.000.

Clarke, Charles J., Jr.: *See—*

Staggs, Kevin P.; and Clarke, Charles J., Jr., 4,663,619, Cl. 340-750.000.

Clarke, Christopher K. P., to British Broadcasting Corporation. Adaptive filter for use in color video signal processing. 4,638,351, 1-20-87, Cl. 358-38.000.

Clarke, David W.: *See—*

Knapp, David J.; Waltz, Marion D.; and Clarke, David W., 4,660,586, Cl. 137-2.000.

Clarke, Donald A.: *See—*

Liptay-Wagner, Nicholas; Renaud, Roland; Pryor, Timothy R.; and Clarke, Donald A., 4,686,374, Cl. 250-571.000.

Clarke, Donald B., to Lucas Industries. Method of assembling an electric storage cell. 4,646,430, 3-3-87, Cl. 29-623.100.

Clarke, Gail H.: *See—*

Fuzesi, Stephen; and Clarke, Gail H., 4,699,932, Cl. 521-129.000.

Clarke, George, to Kabushiki Kaisha Universal. Slot machine which pays out upon predetermined number of consecutive lost games. 4,669,731, 6-2-87, Cl. 273-143.00R.

Clarke, George P. Deep band fertilizer and double side band seeding attachment. 4,653,412, 3-31-87, Cl. 111-73.000.

Clarke, Hugh C.: *See—*

Ulinski, Richard J., Sr.; Clarke, Hugh C.; and Evers, Richard A., 4,699,531, Cl. 400-74.000.

Clarke, Ian: *See—*

Doerman, Eryk S.; Turner, William J.; Homer, David A.; Stewart, Andrew D. G.; and Clarke, Ian, 4,696,358, Cl. 177-145.000.

Clarke, James B. Ladder levelling device. 4,699,247, 10-13-87, Cl. 182-107.000.

Clarke, John; D'Eath, Roderick M.; and Haycock, Derek E., to Metal Box p.l.c. Heat treating thermoplastic sheet materials for thermoforming. 4,687,612, 8-18-87, Cl. 264-322.000.

Clarke, John: *See—*

Flesher, Peter; Clarke, John; and Marshall, David, 4,690,971, Cl. 524-555.000.

Leupold, Herbert A.; Potenziani, Ernest, II; and Clarke, John, 4,692,732, Cl. 335-302.000.

Clarke, John A., to U.S. Philips Corporation. Projection lens system. 4,699,476, 10-13-87, Cl. 350-432.000.

Clarke, John A., to U.S. Philips Corporation. Projection lens system. 4,699,477, 10-13-87, Cl. 350-432.000.

Clarke, John B.; and Firth, John F., to Allied Colloids Limited. Prepasted wallcoverings. 4,639,395, 1-27-87, Cl. 428-341.000.

Clarke, John B.; Firth, John F.; and Walker, John R., to Allied Colloids Limited. Process of forming prepasted wallcoverings. 4,713,264, 12-15-87, Cl. 427-207.100.

Clarke, Peter A.: *See—*

Calverley, Simon G.; Carter, David C. M.; Clarke, Peter A.; Dowding, John G.; Hawkins, David M.; and Mitchell, Robert J. C. S., 4,690,604, Cl. 414-403.000.

Clarke, Peter T.; and Valom, Barteld, to State of Western Australia Department of Agriculture, The. Means for breaking down carcasses. 4,688,296, 8-25-87, Cl. 17-1.00R.

Clarke, Robert S. F.: *See—*
  Sutehall, Ralph; and Clarke, Robert S. F., 4,715,676, Cl. 350-96.230.
Clarke, Ronald A. W. Traffic marker and housing. 4,634,310, 1-6-87, Cl. 404-15.000.
Clarke, Steven R.; Price, John B.; Sallavanti, Robert A.; and Zawislak, Stephen P., to Gentex Corporation. Composite yarn and method for making the same. 4,698,956, 10-13-87, Cl. 57-2.000.
Clarke, Terence A.; Edwards, Richard B.; and Irving, Graeme N., to Lever Brothers Company. Processing detergent bars with a cavity transfer mixer to reduce grittiness. 4,680,132, 7-14-87, Cl. 252-108.000.
Clarke, Thomas C.; Lu, Neng H.; Tomkiewicz, Yaffa; and Tong, Ho M., to International Business Machines Corp. Process for the production of void-free prepreg sheets. 4,690,836, 9-1-87, Cl. 427-299.000.
Clarke, William, to Bremen Associates Incorporated. Cutting tool for making a smooth saw cut. 4,641,562, 2-10-87, Cl. 83-837.000.
Clarke, William D.: *See—*
  Booth, Llewellyn D.; Christen, Jimmie D.; and Clarke, William D., 4,704,410, Cl. 521-166.000.
Clarke, William F.; and Handlesman, Mark W., to Westinghouse Electric Corp. Robotic end effector. 4,657,470, 4-14-87, Cl. 414-627.000.
Clarkson, Bruce A.; Frere, Ronald J.; Loughlin, Thomas G.; Taylor, William W., Jr.; and Mongeau, Peter, to Emhart Industries, Inc. Electronic locking system and key therefor. 4,712,398, 12-15-87, Cl. 70-276.000.
Clarkson Company, The: *See—*
  Clarkson, Curtis W.; and Koll, Larry F., 4,688,597, Cl. 137-375.000.
Clarkson, Curtis W.; and Koll, Larry F., to Clarkson Company, The. Gate valve. 4,688,597, 8-25-87, Cl. 137-375.000.
Clarkson, Roy J., to Beecham Group P.L.C. Anti-perspirant compositions. 4,666,710, 5-19-87, Cl. 424-66.000.
Clasby, Thomas J., III, to American Hospital Supply Corporation. Intraocular lens with ridges. 4,655,775, 4-7-87, Cl. 623-6.000.
Clasen, Richard H.: *See—*
  Giglia, Robert D.; and Clasen, Richard H., 4,698,256, Cl. 428-216.000.
Clasen, Rolf; and Scholz, Heinz, to U.S. Philips Corporation. Method for the manufacture of glass bodies. 4,680,047, 7-14-87, Cl. 65-17.000.
Clasen, Rolf; and Scholz, Heinz, to U.S. Philips Corporation. Method of manufacturing glass bodies. 4,681,614, 7-21-87, Cl. 65-18.100.
Clasen, Rolf, to U.S. Philips Corporation. Method for the manufacture of glass bodies by extrusion. 4,682,995, 7-28-87, Cl. 65-18.100.
Clasen, Rolf, to U.S. Philips Corporation. Method for the manufacture of glass bodies. 4,684,385, 8-4-87, Cl. 65-17.000.
Clasen, Rolf, to U.S. Philips Corporation. Method for the manufacture of glass bodies. 4,684,386, 8-4-87, Cl. 65-18.100.
Clasen, Rolf; and Hermann, Wilhelm G., to U.S. Philips Corporation. Method for manufacturing glass bodies. 4,684,387, 8-4-87, Cl. 65-18.400.
Clasen, Rolf; and Hermann, Wilhelm G., to U.S. Philips Corporation. Method for manufacturing glass bodies. 4,689,066, 8-25-87, Cl. 65-18.100.
Clasen, Rolf, to U.S. Philips Corporation. Method of for manufacturing glass bodies. 4,695,305, 9-22-87, Cl. 65-18.300.
Classen, Alvin T. Self-propelled lawn aeration machine. 4,662,456, 5-5-87, Cl. 172-22.000.
Classic Corporation: *See—*
  Fogel, Isaac; and Keefer, Donald W., 4,715,076, Cl. 5-450.000.
  Sirois, Normand W.; and Arthur, John A., 4,700,168, Cl. 337-327.000.
  Wride, Lawrence; and Keefer, Donald W., 4,688,284, Cl. 5-450.000.
Clatfelter, Kenneth A.; Story, John D.; and Webb, Jerry E., to Campbell Soup Company. Hot solution injection. 4,663,173, 5-5-87, Cl. 426-281.000.
Clatfelter, Kenneth A.; and Webb, Jerry E., to Campbell Soup Company. Method of eliminating aging step in poultry processing. 4,675,947, 6-30-87, Cl. 17-47.000.
Claude, Jean P.: *See—*
  Schmid, Adalbert; Kiener, Alfons; Kagi, Stephan; and Claude, Jean P., 4,685,969, Cl. 106-35.000.
Claude, John P.: *See—*
  Ingle, Frank W.; and Claude, John P., 4,691,418, Cl. 29-25.350.
Claudius Peters AG: *See—*
  Krauss, Werner, 4,671,030, Cl. 52-197.000.
Claus, Michael J.: *See—*
  Thorne, Gale H.; Owen, Charles V.; Smith, Randall W.; Goldberg, Ruth D.; Miles, Scott D.; and Claus, Michael J., 4,678,752, Cl. 435-291.000.
Claus Riemann & Co. ApS: *See—*
  Gelman, Klaes, 4,650,671, Cl. 424-66.000.
Clausen, Earl W.; and Hubbard, Lloyd C., to MICI Limited Partnership IV. Method and apparatus for sterilization of a centrifugal pump. 4,643,641, 2-17-87, Cl. 415-170.00A.
Clausen, Earl W.: *See—*
  Hubbard, Lloyd C.; and Clausen, Earl W., 4,690,002, Cl. 73-861.250.
Clausen, Edgar C.: *See—*
  Gaddy, James L.; and Clausen, Edgar C., 4,645,658, Cl. 423-488.000.
Clausen, Edvin L., to Norsk Hydro A.S. Method of manufacture of manifolds. 4,663,812, 5-12-87, Cl. 29-157.400.
Clausen, Edvin L., to Norsk Hydro a.s. Heat exchanger element comprising a single and integrally extruded member including at least two hollow tubes integrally joined by at least two webs. 4,694,898, 9-22-87, Cl. 165-171.000.
Clausen, Eivind; and Skaling, Timothy J., to Allsop, Inc. Hinged slalom gate. 4,636,109, 1-13-87, Cl. 404-10.000.
Clausen, Eivind; and Allsop, Michael G., to Allsop, Inc. Slot board hanging apparatus and method. 4,708,311, 11-24-87, Cl. 248-222.20
Clausen, Eivind, to Allsop, Inc. Apparatus for cleaning digital audio discs. 4,713,856, 12-22-87, Cl. 15-97.00R.
Clausen, Eivind: *See—*
  Allsop, Ivor J.; Allsop, Michael G.; Allsop, James D.; and Clausen, Eivind, 4,687,094, Cl. 206-44.00R.
  Allsop, James D.; and Clausen, Eivind, 4,635,154, Cl. 360-128.00
  Brauner, William E.; Tomkinson, John G.; and Clausen, Eivind, 4,655,342, Cl. 206-45.180.
Clausen, Elmer B.: *See—*
  Klingenschmitt, Carl E.; and Clausen, Elmer B., 4,675,678, C 342-34.000.
Clausen, Erik; Clausen, Johannes; Jensen, Holger; and Sturluson, Finnur, to Scan Screen A/S. Transparent rear projection screen. 4,636,035, 1-13-87, Cl. 350-128.000.
Clausen, Johannes: *See—*
  Clausen, Erik; Clausen, Johannes; Jensen, Holger; and Sturluson, Finnur, 4,636,035, Cl. 350-128.000.
Clausen, Peter J. M.: *See—*
  Petersen, Jorgen H.; Clausen, Peter J. M.; and Rasmussen, Hilmar O., 4,634,481, Cl. 156-89.000.
  Petersen, Jorgen H.; and Clausen, Peter J. M., 4,681,533, C 431-208.000.
  Rasmussen, Hilmar O.; Petersen, Jorgen H.; Boe, Ove S.; and Clausen, Peter J. M., 4,687,893, Cl. 219-10.410.
Clausen, Thomas: *See—*
  Konrad, Eugen; and Clausen, Thomas, 4,661,114, Cl. 8-409.000.
  Konrad, Eugen; and Clausen, Thomas, 4,704,474, Cl. 564-441.00
  Konrad, Eugen; and Clausen, Thomas, 4,713,080, Cl. 8-408.000.
Clauser, John F. Boom-footed sail efficiency enhancement system. 4,664,050, 5-12-87, Cl. 114-102.000.
Clauss, Gerhard, to Michael Horauf Maschinenfabrik GmbH & Co. KG. Paper container with a jacket wound with a double wall and process for its preparation. 4,667,844, 5-26-87, Cl. 220-450.000.
Clauss, Hermann: *See—*
  Waschler, Eckehard; Clauss, Hermann; and Hefner, Heinz-Achim, 4,710,264, Cl. 437-228.000.
Clauss, Julius A.: *See—*
  Lemieux, George E.; Lewicki, Reginald T.; and Clauss, Julius A., 4,638,686, Cl. 74-688.000.
Clauss, Karl; Linkies, Adolf; and Reuschling, Dieter, to Hoechst Aktiengesellschaft. Process for the preparation of 6-methyl-3,4-dihydro-1,2,3-oxathiazin-4-one 2,2-dioxide and its non-toxic salts. 4,638,06 1-20-87, Cl. 544-2.000.
Clauss, Karl; Linkies, Adolf; and Reuschling, Dieter, to Hoechst Aktiengesellschaft. Process for the preparation of 6-methyl-3,4-dihydro-1,2,3-oxathiazin-4-one 2,2-dioxide and its non-toxic salts. 4,695,62 9-22-87, Cl. 544-2.000.
Clauss Markisen: *See—*
  Clauss, Ulrich, 4,657,059, Cl. 160-120.000.
Clauss, Ulrich, to Clauss Markisen. Side support for an awning bo 4,657,059, 4-14-87, Cl. 160-120.000.
Clauss, Wolfgang: *See—*
  Mauer, Dieter; and Clauss, Wolfgang, 4,662,206, Cl. 72-391.00
Claussen, Reimer: *See—*
  Heel, Helmut; Claussen, Reimer; and Schick, Frank, 4,666,096, C 242-36.000.
Claussen, Uwe: *See—*
  Blunck, Martin; Claussen, Uwe; Krock, Friedrich W.; and Neef Rutger, 4,689,171, Cl. 252-299.100.
Claverie, Jean-Claude, to Bendix France. Thrust plate spring for a disc brake. 4,699,255, 10-13-87, Cl. 188-73.380.
Clavin, Harold D. Cosmetic tape, applicator therefor and method 4,653,483, 3-31-87, Cl. 128-76.500.
Clawson, Arthur R., to United States of America, Navy. Thermally-activated vapor etchant for InP. 4,671,847, 6-9-87, Cl. 156-635.00
Clawson, Lawrence G., to Raytheon Company. Recuperative clothe dryer with enhanced recirculation and air flow. 4,665,628, 5-19-8 Cl. 34-23.000.
Clawson, Lawrence G.; and Teich, Wesley W., to Raytheon Compan Clothes dryer with a lint incinerator. 4,669,199, 6-2-87, Cl. 34-82.00
Clawson, Lawrence G., to Raytheon Company. High condensi recuperative furnace. 4,681,085, 7-21-87, Cl. 126-110.00R.
Clawson, William D.: *See—*
  Bucher, George D.; Catanese, John A.; and Clawson, William D., 4,696,190, Cl. 73-865.800.
Claxton, George P.: *See—*
  Schenttler, Richard A.; Jones, Winton D., Jr.; and Claxton, Georg P., 4,670,450, Cl. 514-341.000.
  Schnettler, Richard A.; Jones, Winton D., Jr.; and Claxton, Georg P., 4,698,353, Cl. 514-340.000.
Claxton, Gerald L.: *See—*
  Ream, Michael D.; and Claxton, Gerald L., 4,657,112, C 182-63.000.
Claxton John C. Three dimensional stacked reproduction scree 4,712,869, 12-15-87, Cl. 350-126.000.
Clay, Anthony H. Device for attracting and trapping fleas. 4,654,99 4-7-87, Cl. 43-113.000.
Clay, C. William; and Robinson, Curtiss W., to Boeing Company, The. Electric integrated actuator with variable gain hydraulic outpu 4,667,472, 5-26-87, Cl. 60-387.000.
Clay Cross Company Limited, The: *See—*
  Haynes, John M., 4,703,711, Cl. 116-212.000.
Claycomb, Jack R., to Rickert Precision Industries, Inc. Blast joint 4,685,518, 8-11-87, Cl. 166-243.000.

- laydon, Glenn S.: *See*—
  - Steigerwald, Robert L.; Routh, Kevin C.; Claydon, Glenn S.; and Bicknell, William H., 4,694,384, Cl. 363-17.000.
- layland, John W., Jr.; and Daniel, Carl P., to Baxter Travenol Laboratories, Inc. Specimen analysis instrument assembly. 4,641,528, 2-10-87, Cl. 73-597.000.
- layman, Henry; and Longacre, James R. Posterior chamber intra-ocular lens with the lens body within a carrier. 4,634,441, 1-6-87, Cl. 623-6.000.
- layman, Henry; and Longacre, James R. Buoyant posterior chamber intraocular lens implant. 4,642,116, 2-10-87, Cl. 623-6.000.
- layman, Henry, to Aldebaran XIII Consulting Company. Automated anterior capsulectomy instrument. 4,676,243, 6-30-87, Cl. 128-305.000.
- laypool, Mark P.; and Weber, Gary C., to Emhart Industries, Inc. Apparatus for orienting containers. 4,653,628, 3-31-87, Cl. 198-395.000.
- laypool, Mark P.; and Battersby, Patrick T., to Emhart Industries, Inc. Optical inspection of transparent layers. 4,672,200, 6-9-87, Cl. 250-227.000.
- Clayson, Colin F.: *See*—
  - Bailey, Alan S.; and Clayson, Colin F., 4,647,490, Cl. 428-131.000.
- Clayton, Anthony B.; and Kramer, Brian D., to Hercules Incorporated. Maleic modified butene copolymers for adhering polypropylene. 4,675,210, 6-23-87, Cl. 427-208.200.
- Clayton, Colin G.; and Spackman, Ramon, to United Kingdom Atomic Energy Authority. Ore irradiator. 4,696,782, 9-29-87, Cl. 376-159.000.
- Clayton, Colin G.; and Spackman, Ramon, to United Kingdom Atomic Energy Authority. Ore sorting apparatus. 4,702,379, 10-27-87, Cl. 209-539.000.
- Clayton Durand Mfg. Co., Inc.: *See*—
  - Harris, Mark, and Copeland, Duane, 4,651,879, Cl. 209-523.000.
- Clayton Foundation for Research: *See*—
  - Mullani, Nizar A., 4,642,464, Cl. 250-363.00S.
  - Wong, Wai-Hoi, 4,647,779, Cl. 250-363.00R.
  - Wong, Wai-Hoi, 4,677,299, Cl. 250-363.00S.
- Clayton, Gerald H., II: *See*—
  - Seeley, Robert L.; Barth, Joseph J.; and Clayton, Gerald H., II, 4,701,712, Cl. 324-340.000.
- Clayton, James E., to Wang Laboratories, Inc. Single in-line memory module. 4,656,605, 4-7-87, Cl. 365-52.000.
- Clayton, Jan E.: *See*—
  - Scott, A. Carlisle; Clayton, Jan E.; and Garnier, Jacques, 4,713,775, Cl. 364-513.000.
- Clayton, Richard D., to Northern Telecom Limited. Phased linear laser array. 4,661,962, 4-28-87, Cl. 372-50.000.
- Claytor, Thomas N.; Ockert, Carl E.; and Randall, Richard, to United States of America, Energy. Apparatus and method for void/particulate detection. 4,696,191, 9-29-87, Cl. 73-600.000.
- Cle Group Technip: *See*—
  - Desmidt, Francois, 4,664,625, Cl. 432-58.000.
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  - Yano, Shozo, 4,649,946, Cl. 134-57.00R.
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  - Hattori, Isao, 4,646,418, Cl. 29-559.000.
- Clean-Tex A/S: *See*—
  - Lang, Aage, 4,653,363, Cl. 83-30.000.
  - Lang, Aage, 4,702,133, Cl. 83-30.000.
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  - Madsen, Jens; and Kaae, Svend S., 4,658,985, Cl. 222-1.000.
- Clear, Kenneth C. Cathodic protection of reinforced concrete in contact with conductive liquid. 4,692,066, 9-8-87, Cl. 405-216.000.
- Cleare, Michael J.; Hoeschele, James D.; Rosenberg, Barnett; and Van Camp, Loretta, to Research Corporation. Malonato platinum compounds. 4,657,927, 4-14-87, Cl. 514-492.000.
- Clearman, Jack F.: *See*—
  - Roberts, Donald L.; Angel, Anthony L.; Clark, Douglas C.; Clearman, Jack F.; and Sink, T. Stephen, 4,638,820, Cl. 131-336.000.
- Cleary, Arthur: *See*—
  - Allen, David; and Cleary, Arthur, 4,707,704, Cl. 346-24.000.
  - Buckley, Dennis J.; Cleary, Arthur; and Winey, Calvin, 4,707,712, Cl. 346-136.000.
- Cleary, Cynthia A.: *See*—
  - Cleary, Vincent J., Jr., 4,648,550, Cl. 232-25.000.
- Cleary, Dennis: *See*—
  - Bimonte, Michael; and Cleary, Dennis, 4,694,972, Cl. 220-401.000.
- Cleary, Edward J., Jr.; and Coleman, Mike R., to Tektronix, Inc. Digital peak-hold circuit. 4,686,390, 8-11-87, Cl. 307-351.000.
- Cleary, Michael M.; and Bohorquez, Luis A., to Hughes Helicopters, Inc. Weapon with next round select feed system. 4,665,793, 5-19-87, Cl. 89-33.040.
- Cleary, Michael T.: *See*—
  - Chao, Tai-Hsiang; and Cleary, Michael T., 4,650,783, Cl. 502-407.000.
- Cleary, Patrick J.; Kelman, Lloyd S.; and Horn, Richard L., to Boeing Company, The. Aircraft performance margin indicator. 4,638,437, 1-20-87, Cl. 364-427.000.
- Cleary, Robert A., Jr.; and Zaccheo, Theodore N., to Labeling Systems, Inc. Labeling apparatus. 4,676,859, 6-30-87, Cl. 156-361.000.
- Cleary, Vincent J., Jr., to Cleary, Cynthia A. Tamperproof mailbox assembly. 4,648,550, 3-10-87, Cl. 232-25.000.
- Cleaver, Brian W.: *See*—
  - Allen, Derek E.; Woodward, Malcolm C.; and Cleaver, Brian W., 4,670,971, Cl. 29-597.000.
- Cleaver, John R. A.; and Ahmed, Haroon, to Dubilier Scientific Limited. Ion beam species filter and blanker. 4,649,316, 3-10-87, Cl. 313-361.100.
- Clebant, Jean-Claude, to Societe Anonyme: Societe Europeenne de Propulsion. Bearing, such as for rotary shaft. 4,647,227, 3-3-87, Cl. 384-99.000.
- Clebant, Jean-Claude: *See*—
  - Habarou, Georges; Etienne, Jacques; and Clebant, Jean-Claude, 4,669,954, Cl. 415-174.000.
- CLECIM: *See*—
  - Bessey, Guy; and Bimbert, Claude, 4,677,838, Cl. 72-254.000.
  - Damiron, Pierre M.; and Legoupil, Jean-Luc, 4,684,451, Cl. 204-141.500.
  - Morel, Michel; and Valence, Marc, 4,651,547, Cl. 72-8.000.
- Cleer, Clarence W., Jr. Liquid heating apparatus. 4,633,821, 1-6-87, Cl. 122-155.00A.
- Cleer, Clarence W., Jr. Multiple boiler heating system with improved venting and heat reclamation. 4,694,783, 9-22-87, Cl. 122-448.00B.
- Clegg, David D.: *See*—
  - So, Vincent C.; Vella, Paul J.; Clegg, David D.; and Hughes, Richard P., 4,709,414, Cl. 455-607.000.
- Clegg, Ernest N.: *See*—
  - Holt, Andrew; Cheek, Martin G.; and Clegg, Ernest N., 4,639,432, Cl. 502-324.000.
- Clegg, John E. Prismatic beam concentrator. 4,650,284, 3-17-87, Cl. 350-286.000.
- Clegg, John E. Cylindrical cam clutch. 4,651,579, 3-24-87, Cl. 74-63.000.
- Clegg, John E. Conical beam concentrator. 4,657,353, 4-14-87, Cl. 350-432.000.
- Clegg, John E. Conical split-image microscopic lens No. 3. 4,659,191, 4-21-87, Cl. 350-432.000.
- Clegg, Michael: *See*—
  - Harwood, Jon; Clegg, Michael; Rosa, Bruno A.; and Moring, Walter G., 4,656,712, Cl. 29-157.00R.
- Clegg, Roy, to Davy McKee (Sheffield) Limited. Rolling mill control for tandem rolling. 4,691,546, 9-8-87, Cl. 72-9.000.
- Cleland, Andrew J., to Engelhard Corporation. High bulking pigment and method of making same. 4,640,716, 2-3-87, Cl. 106-161.000.
- Cleland, Terry P. Percussion musical instrument drum-head skin tensioning assembly and drum shell construction therefor. 4,714,002, 12-22-87, Cl. 84-413.000.
- Clelland, Charles M.: *See*—
  - Hogden, John D., Sr.; and Clelland, Charles M., 4,645,253, Cl. 294-19.100.
- Clem, Chesley D., to Swiss Aluminium Ltd. Natural stone facing composite laminate. 4,664,955, 5-12-87, Cl. 428-15.000.
- Clem, Gladys M.: *See*—
  - Boeck, LaVerne D.; Clem, Gladys M.; Hershberger, Charles L.; Anderson, Marie T.; and Michel, Karl H., 4,663,282, Cl. 435-68.000.
- Clem, Warren E.: *See*—
  - Bramblett, Earl C.; and Clem, Warren E., 4,682,539, Cl. 100-265.000.
- Clemar Manufacturing Corporation: *See*—
  - Lobato, Toribio, 4,634,285, Cl. 368-200.000.
- Clemco Industries: *See*—
  - Clark, Paul W.; and Gulliford, John S., 4,658,326, Cl. 361-215.000.
- Clemence, Francois; Le Martret, Odile; and Delevallee, Francoise, to Roussel Uclaf. Anti-inflammatory 2-substituted-4-hydroxy-3-quinoline carboxamides. 4,636,512, 1-13-87, Cl. 514-312.000.
- Clemence, Francois; and Le Martret, Odile, to Uclaf, Roussel. Alkyl β-oxo-benzenepropanoates. 4,687,857, 8-18-87, Cl. 548-195.000.
- Clemence, Francois: *See*—
  - Guillaume, Jacques; Clemence, Francois; and Brown, Neil L., 4,650,811, Cl. 514-415.000.
  - Meier, Jean; and Clemence, Francois, 4,659,729, Cl. 514-383.000.
- Clemens, Donald L., to Thermalloy Incorporated. Heat sink clip assembly. 4,712,159, 12-8-87, Cl. 361-386.000.
- Clemens, Donald L.: *See*—
  - Jordan, William D.; and Clemens, Donald L., 4,709,302, Cl. 361-388.000.
- Clemens, James A.: *See*—
  - Black, Larry J.; and Clemens, James A., 4,656,187, Cl. 514-422.000.
- Clemens, Karl-Heinz, to O&K Orenstein & Koppel Aktiengesellschaft. Blade guide system for grading vehicle with displaceable grading blade. 4,683,959, 8-4-87, Cl. 172-795.000.
- Clemens, Robert M.: *See*—
  - Durbin, James L.; and Clemens, Robert M., 4,700,623, Cl. 100-52.000.
- Clemenson, Gregory D., to Intellicorp Corporation. Method and apparatus for building knowledge-based systems. 4,675,829, 6-23-87, Cl. 364-513.000.
- Clement, Albrecht; Virgilio, Gustav; and Weller, Hugo, to Robert Bosch GmbH. Electronic arrangement for generating a fuel metering signal for an internal combustion engine. 4,643,153, 2-17-87, Cl. 123-486.000.
- Clement, Albrecht; Mayer, Dieter; and Wild, Ernst, to Robert Bosch GmbH. Lambda-controlled mixture metering arrangement for an internal combustion engine. 4,671,244, 6-9-87, Cl. 123-489.000.
- Clement, Albrecht: *See*—
  - Becker, Rudiger; Clement, Albrecht; Virgilio, Gustav; and Weller, Hugo, 4,697,563, Cl. 123-421.000.
  - Breitkreuz, Helmut; Clement, Albrecht; Mayer, Dieter; Ruppmann, Claus; Walz, Dieter; Wild, Ernst; and Zechnall, Martin, 4,683,861, Cl. 123-520.000.

- Clement, Gene R., to Knape & Vogt Manufacturing Company. Sequential drawer slide. 4,711,588, 12-8-87, Cl. 384-18.000.
- Clement, Gilles; and Villedieu, Eric, to Commissariat a l'Energie Atomique. Variable geometry track vehicle. 4,709,773, 12-1-87, Cl. 180-9.320.
- Clement, Gilles: *See*—
  - Germond, Jean-Claude; and Clement, Gilles, 4,696,612, Cl. 414-8.000.
- Clement, Henry: *See*—
  - Lassaux, Jean; and Clement, Henry, 4,649,335, Cl. 324-52.000.
- Clement, Jean-Luc; Lemaire, Michele; Lange, Catherine; Lhommet, Gerard; Celerier, Jean-Pierre; Basselier, Jean-Jacques; and Cassier, Pierre, to Centre National de la Recherche Scientifique. Insecticidal and/or acaricidal, including termicidal compositions based on 2,5-disubstituted derivatives of pyrrolidine and/or pyrroline-1. 4,707,489, 11-17-87, Cl. 514-408.000.
- Clement, Jean-Rene: *See*—
  - Brisson, Alain; and Clement, Jean-Rene, 4,638,279, Cl. 335-257.000.
  - Brisson, Alain; and Clement, Jean-Rene, 4,700,165, Cl. 335-255.000.
- Clement, Joseph S.: *See*—
  - Carlson, Robert E.; and Clement, Joseph S., 4,666,014, Cl. 180-148.000.
- Clement, Pierre, to Aciers et Outillage Peugeot. Air inlet neck, in particular for an air admission system in an internal combustion engine. 4,662,341, 5-5-87, Cl. 123-556.000.
- Clement, Thomas J.: *See*—
  - Opie, Eric A.; and Clement, Thomas J., 4,679,557, Cl. 128-305.000.
- Clemente, Paul M.: *See*—
  - Curtin, Richard R.; and Clemente, Paul M., 4,644,489, Cl. 364-736.000.
- Clemente, Ralph, to Coronet Industries, Inc. Blind construction. 4,687,038, 8-18-87, Cl. 160-84.00R.
- Clementi, Robert J.; Gazdik, Charles E.; Lafer, William; Lovesky, Roy L.; McBride, Donald G.; Munson, Joel V.; and Skarvinko, Eugene P., to International Business Machines Corporation. Flexible film semiconductor chip carrier. 4,681,654, 7-21-87, Cl. 156-630.000.
- Clementini, Luciano; and Camprincoli, Pier P., to Montedison S.p.A. Textile fibers based on modified olefinic polymers. 4,636,436, 1-13-87, Cl. 428-364.000.
- Clementini, Luciano; Camprincoli, Pierpaolo; Marcaccioli, Enzo; and Gemmi, Alfredo, to Moplefan S.p.A. Composite packing film. 4,671,986, 6-9-87, Cl. 428-216.000.
- Clementoni, Dominick, to Exxon Research & Engineering Co. Paving asphalt. 4,647,313, 3-3-87, Cl. 106-281.00R.
- Clements, Brad; and Keith, John C., to Hewlett-Packard Company. Graphics tablet menu locator accommodating differing sizes of paper. 4,697,048, 9-29-87, Cl. 178-18.000.
- Clements, Brad; and Keith, John C., to Hewlett-Packard Company. Ergonomic digitizer stylus. 4,707,571, 11-17-87, Cl. 178-18.000.
- Clements, George W., to Seeger Corporation. Two-component metering pump. 4,705,461, 11-10-87, Cl. 417-387.000.
- Clements, Jack W.: *See*—
  - Antoszewski, Richard S.; Sciulli, Frank J.; Taft, Jeffrey D.; and Clements, Jack W., 4,652,133, Cl. 356-376.000.
- Clements, James R.; Yu, Terry T. J.; and Yu, Laura H. C. Method of making an electronic device using an uniaxial conductive adhesive. 4,667,401, 5-26-87, Cl. 29-832.000.
- Clements, Judson S.: *See*—
  - Mizuno, Akira; and Clements, Judson S., 4,695,358, Cl. 204-174.000.
- Clements, Ken, to Laser Dynamics Inc. Extended cavity laser readout apparatus. 4,658,146, 4-14-87, Cl. 250-566.000.
- Clements, Ken, to Laser Dynamics, Inc. Extended cavity laser recording method and apparatus. 4,707,814, 11-17-87, Cl. 369-13.000.
- Clements, Larry R.; and Eschenbach, Paul W., to Milliken Research Corporation. Method to texturize synthetic yarns. 4,674,273, 6-23-87, Cl. 57-287.000.
- Clements National Company: *See*—
  - Chitjian, John R., 4,646,482, Cl. 51-424.000.
- Clements, Silous F.; Motola, Patrick D.; and Swift, Shirley F., to International Business Machines Corporation. Data processor printer setup through a remote display terminal. 4,642,792, 2-10-87, Cl. 364-900.000.
- Clemino, Alain, to Centre National de la Recherche Scientifique. Mirror foamed glass substrate and method of manufacture. 4,670,338, 6-2-87, Cl. 428-312.600.
- Clemmow, Raymond J.; Radford, Leonard; and Thorpe, John D., to Padley & Venables Limited. Pick and the combination of a pick and holder. 4,650,253, 3-17-87, Cl. 299-81.000.
- Clemons, Johnny M.: *See*—
  - Daniels, Julia G.; Ledbetter, Frank E., III; Clemons, Johnny M.; Penn, Benjamin G.; and White, William T., 4,680,897, Cl. 51-281.00R.
- Clemson, Daniel M.: *See*—
  - Samson, Joseph E.; Wolff, Kenneth T.; Reid, Robert; Hendrie, Gardner C.; Falkoff, Daniel M.; Dynneson, Ronald E.; Clemson, Daniel M.; and Baty, Kurt F., 4,654,857, Cl. 371-68.000.
- Clemson University: *See*—
  - Cooke, Francis W., 4,642,124, Cl. 623-23.000.
  - Parker, Joey K.; and Paul, Frank W., 4,715,773, Cl. 414-730.000.
  - Thomas, Ronald L.; Titus, Terry C.; and Brandon, Craig A., 4,716,044, Cl. 426-51.000.
- Clendening, Steven J.: *See*—
  - Cagle, George C.; and Clendening, Steven J., 4,648,088, Cl. 370-16.000.
- Clendening, Susan. Personal distress signalling device. 4,665,389, 5-12-87, Cl. 340-574.000.
- Clendenning, Donald C., to United States of America, Navy. Rate estimation by mixing two independent rate signals. 4,659,035, 4-21-87, Cl. 244-3.210.
- Clendinen, Charles D., to Burton, Parker & Schramm, P.C. Snap fastener. 4,646,399, 3-3-87, Cl. 24-624.000.
- Clendinning, Robert A.; and Kwiatkowski, George T., to Amoco Corporation. Chain-extended poly(aryl ether ketones). 4,687,833, 8-18-87, Cl. 528-125.000.
- Clendinning, Robert A.; and Maresca, Louis M., to Amoco Corporation. Slurry process for producing high molecular weight crystalline polyaryletherketones. 4,716,211, 12-29-87, Cl. 528-126.000.
- Cleophax, Jeanine: *See*—
  - Gero, Stephane; Cleophax, Jeanine; and Gateau-Olesker, Alice, 4,716,226, Cl. 540-200.000.
- Clerc, Jean-Frederic; and Muller, Francis, to Commissariat a l'Energie Atomique. Liquid crystal dichroic display with a high brightness contrast. 4,639,090, 1-27-87, Cl. 350-346.000.
- Clerc, Jean-Frederic; and Deutsch, Jean-Claude, to Commissariat a l'Energie Atomique. Liquid crystal cell which can have a homeotropic structure with compensated birefringence of said structure. 4,701,028, 10-20-87, Cl. 350-337.000.
- Clerc, Jean-Frederic: *See*—
  - Chenevas-Paule, Andre ; and Clerc, Jean-Frederic, 4,694,287, Cl. 340-719.000.
- Clerc, Michel, to Cycles Peugeot. Exhaust muffler for a motor vehicle or the like. 4,693,338, 9-15-87, Cl. 181-231.000.
- Clerc, Michel: *See*—
  - Mouhot, Frederic; Barnabe, Jean-Pierre; Hoblingre, Andre; and Clerc, Michel, 4,648,624, Cl. 280-775.000.
- Clerc, Michel M.; Mouhot, Frederic M.; and Barnabe, Jean-Pierre, to Cycles Peugeot. Telescopic sub-assembly for a steering column. 4,693,176, 9-15-87, Cl. 74-492.000.
- Clerici, Mario: *See*—
  - Bellussi, Giuseppe; Buonomo, Franco; Esposito, Antonio; Clerici, Mario; Romano, Ugo; and Notari, Bruno, 4,701,42[illegible], Cl. 502-8.000.
- Clerprem s.r.l.: *See*—
  - Carussi, Paolo, 4,670,925, Cl. 5-481.000.
- Clesso-Mandet: *See*—
  - Lacour, Gilbert, 4,667,693, Cl. 137-116.300.
- Cleveland Clinic Foundation, The: *See*—
  - Eliachar, Isaac, 4,700,700, Cl. 128-207.150.
  - Meller, Bruce T.; Manley, Michael T.; and Stulberg, Bernard N., 4,696,308, Cl. 128-754.000.
- Cleveland Controls, Incorporated: *See*—
  - Banas, Dale, 4,649,767, Cl. 74-479.000.
- Cleveland, Dixon: *See*—
  - Nagel, Gregory L.; Sidlosky, David M.; Murty, Balarama V.; Lee, Anthony; and Cleveland, Dixon, 4,694,135, Cl. 219-110.000.
- Cleveland-Guest (Engineering) Limited: *See*—
  - Lord, Duncan; and Bracewell, John H., 4,676,541, Cl. 294-88.000.
- Cleveland Machine Controls, Inc.: *See*—
  - Koenig, Robert G., 4,674,341, Cl. 73-862.480.
- Cleveland, Richard S.: *See*—
  - Connor, Mark J.; Reinemuth, George H.; and Cleveland, Richard S., 4,693,109, Cl. 72-456.000.
- Cleveland, William C., Jr., to Ford Aerospace & Communications Corporation. Magnetic roll sensor calibrator. 4,646,990, 3-3-87, Cl. 244-3.210.
- Clevenger, James T., Jr.: *See*—
  - Linde, Gilbert W.; and Clevenger, James T., Jr., 4,669,670, Cl. 239-660.000.
- Clevepak Corporation: *See*—
  - Peelle, Angela A.; and Vaughn, Charles G., Jr., 4,667,913, Cl. 248-228.000.
- Clevite Industries Inc.: *See*—
  - Adams, Kenneth J.; and Dyke, David E., 4,648,910, Cl. 148-6.200.
  - Altman, Yevgeny, 4,665,942, Cl. 137-490.000.
  - Aranovich, Felix, 4,715,407, Cl. 137-625.650.
  - Goodwin, Roy S., 4,712,411, Cl. 72-344.000.
  - Kowal, Leonard J.; Schwarz, Albert J.; and Welis, Norman B., 4,685,706, Cl. 285-322.000.
  - Magnuson, Ruel D., 4,664,148, Cl. 137-614.050.
  - Snyder, Daniel S., 4,644,789, Cl. 73-290.00V.
- Clextral: *See*—
  - Billon, Michel, 4,661,449, Cl. 435-93.000.
  - Chaveron, Henri; Pontillon, Jean; Billon, Michel; Adenier, Herve; and Kamoun, Ahmed, 4,679,498, Cl. 99-483.000.
  - Chaveron, Henri; Pontillon, Jean; Billon, Michel; Adenier, Herve; and Kamoun, Ahmed, 4,713,256, Cl. 426-631.000.
- Click, Billy J. Load cell. 4,702,329, 10-27-87, Cl. 177-211.000.
- Cliff, John F.; and Walton, Robert R., to International Computers Limited. Multi-programmed data processing system with facility for inspecting state of background program. 4,713,656, 12-15-87, Cl. 340-723.000.
- Cliffgard, Arnie L. Liquid level detector. 4,656,464, 4-7-87, Cl. 340-622.000.
- Clifford, G. Frank. Apparatus for the dyeing of shaped articles. 4,653,295, 3-31-87, Cl. 68-205.00R.
- Clifford, Peter P.: *See*—
  - Lane, Bruce B.; Westerkamp, Douglas F.; and Clifford, Peter P., 4,694,190, Cl. 290-52.000.
- Clifford, Rodney J.; and Charters, Ian J., to Rolls-Royce plc. Cooled turbine blade. 4,684,322, 8-4-87, Cl. 416-95.000.

Clifford, Roger K.: *See—*
Hsieh, C. Richard; and Clifford, Roger K., 4,676,889, Cl. 208-390.000.
Clifford, Ronald: *See—*
Ferreira, Marc; McCormick, John; Bernard, Raymond; Butryn, Joseph; and Clifford, Ronald, 4,702,259, Cl. 128-734.000.
Clifford, Thomas H.: *See—*
Noel, Raymond; Robinson, William M.; Cherian, Gabe; Clifford, Thomas H.; Carlomagno, William D.; Deasy, William M.; Grassauer, Willie K.; Haygood, David K.; Sherlock, H. Paul; and White, Harry E., 4,712,721, Cl. 228-56.300.
Cliffton, Michael D.: *See—*
Hill, H. Wayne, Jr.; and Cliffton, Michael D., 4,698,411, Cl. 578-303.000.
Clift, Bruce G., to Cadin Electronics Pty. Ltd. Security monitoring system. 4,654,638, 3-31-87, Cl. 340-531.000.
Clift, Miner; and Engelhardt, Bill. Reverse-buckling rupture disk. 4,682,619, 7-28-87, Cl. 137-68.100.
Clift, Miner E. Scored concave-convex rupture disk and method of manufacture. 4,655,070, 4-7-87, Cl. 72-325.000.
Clift, Miner E. Reverse-buckling rupture disk with replaceable disk and blade. 4,691,729, 9-8-87, Cl. 137-68.100.
Clifton, Kevin; and Delaney, Sean, to Clifton, Kevin. Central air conditioning system. 4,691,531, 9-8-87, Cl. 62-263.000.
Clifton, Orville J. Weight lifting apparatus for exercising the triceps. 4,641,836, 2-10-87, Cl. 272-122.000.
Clifton, Ted G.; and Brookey, Robert L., to Arrow Oil Tools, Inc. Sealing packer. 4,640,351, 2-3-87, Cl. 166-127.000.
Clik-Cut, Inc.: *See—*
Ruff, Stanley L.; and Stubbmann, Albert, 4,646,956, Cl. 225-77.000.
Cikeman, Richard R.; Cinoman, Douglas S.; and Weiler, Ernst D., to Rohm and Haas Company. Interpolymers of polyvinyl chloride and polyimides. 4,650,824, 3-17-87, Cl. 524-457.000.
Climax France S.A.: *See—*
Martinet, Roland; and Casas, Alain, 4,640,311, Cl. 137-884.000.
Climax Manufacturing Company: *See—*
Hunt, Christopher C.; and Strait, Paul M., 4,656,898, Cl. 82-4.00R.
Cline, Carl F.; and Fulton, Fred J., to United States of America, Energy. Method for making boron carbide cermets. 4,704,250, 11-3-87, Cl. 419-15.000.
Cline Company, The: *See—*
Cline, David M.; Branyon, William R.; and Voelzow, Norman E., 4,654,945, Cl. 29-401.100.
Cline, David D. One man seine. 4,653,214, 3-31-87, Cl. 43-14.000.
Cline, David E.: *See—*
Willyard, Dewey L., Jr.; Cline, David E.; and Wulfhorst, David E., 4,676,717, Cl. 415-196.000.
Willyard, Dewey L., Jr.; Cline, David E.; and Wulfhorst, David E., 4,691,423, Cl. 29-156.40R.
Cline, David M.; Branyon, William R.; and Voelzow, Norman E., to Cline Company, The. Method for a compact conversion air-actuated drive unit. 4,654,945, 4-7-87, Cl. 29-401.100.
Cline, Harvey E.; and Lorensen, William E., to General Electric Company. System and method for the display of surface structures contained within the interior region of a solid body. 4,710,876, 12-1-87, Cl. 364-414.000.
Cline, J. Douglas; Wilson, James A.; Feher, Stanley H.; and Ward, George D., to Sundstrand Data Control, Inc. Airborne flight planning and information system. 4,642,775, 2-10-87, Cl. 364-443.000.
Cline, James H.; and Chastain, David M., to Texas Instruments Incorporated. Memory system with write protection. 4,665,506, 5-12-87, Cl. 365-189.000.
Cline, John A.; and Iuliano, William N., to General Electric Company. Torque limiter for prime mover. 4,687,410, 8-18-87, Cl. 415-17.000.
Cline, Martin J.; and Slamon, Dennis J., to University of California, The Regents of the. Methods and compositions for detecting human tumors. 4,699,877, 10-13-87, Cl. 435-6.000.
Cline, Olin J. Collapsible signpost. 4,662,305, 5-5-87, Cl. 116-173.000.
Cline, Ronald L.; and Campbell, John G., to Fairchild Camera & Instrument Corp. Gate having temperature-stabilized delay. 4,651,038, 3-17-87, Cl. 307-591.000.
Cline, Ronald L. CMOS programmable logic array. 4,652,777, 3-24-87, Cl. 307-469.000.
Cline, Ronald L.: *See—*
Conner, George W.; Donald, Raymond G.; and Cline, Ronald L., 4,694,566, Cl. 437-48.000.
Cline, Steven D., to Donn Incorporated. Access floor panel with edge trim. 4,671,832, 6-9-87, Cl. 156-73.100.
Cline, Thomas L., to Tim-Bar Corporation. Rollable sunshield for vehicles. 4,671,558, 6-9-87, Cl. 296-97.00R.
Cline, Thomas L., to Corra-Board Products Co., Inc. Book panel construction. 4,673,608, 6-16-87, Cl. 428-182.000.
Cline, Thomas L., to Corra-Board Products Co., Inc. Breadboard panel construction for electronic circuitry. 4,703,395, 10-27-87, Cl. 361-417.000.
Cline, Thomas L., to Corra-Board Products Co., Inc. Book container structure. 4,703,854, 11-3-87, Cl. 206-424.000.
Cline, Thomas L., to Corra-Board Products Co., Inc. Game board construction. 4,709,927, 12-1-87, Cl. 273-286.000.
Cline, Thomas L., to Corra-Board Products Co., Inc. Paperboard panel construction. 4,710,417, 12-1-87, Cl. 428-182.000.
Clinical Plastic Products: *See—*
Jeanneret nee Aab, Hedwig, 4,685,905, Cl. 604-247.000.
Clinical Reference Laboratory, Inc.: *See—*
Stout, Robert L., 4,687,665, Cl. 424-86.000.
Clinkscales, Douglas L.; Long, Stephen B.; and Wheeler, Carl S., to Hughes Tool Company-USA. Method for protecting from hardening a selected region of a steel structure. 4,664,722, 5-12-87, Cl. 148-14.000.
Clinton, Eric L.: *See—*
Wineland, Richard J.; Nichols, Roberta J.; and Clinton, Eric L., 4,703,732, Cl. 123-416.000.
Wineland, Richard J.; Nichols, Roberta J.; and Clinton, Eric L., 4,706,629, Cl. 123-478.000.
Wineland, Richard J.; Nichols, Roberta J.; and Clinton, Eric L., 4,706,630, Cl. 123-478.000.
Clinton Industries, Inc.: *See—*
Michaels, Sidney, 4,672,902, Cl. 112-287.000.
Clinton, Peter; Myers, Ronald V.; and Sinclair, David. Fluid-gauging systems. 4,679,433, 7-14-87, Cl. 73-304.00C.
Clipper, Donald; and Norfleet, James, to Colgate-Palmolive Company. Mouthrinse composition containing hydrogen peroxide and fluoride. 4,684,517, 8-4-87, Cl. 424-52.000.
Clish, Robert J., to International Paper Company. Filler nozzle with capillary action and its method of operation. 4,711,277, 12-8-87, Cl. 141-311.00A.
Clishem, Thomas A.; and Pokallus, Leonard W., to Corhart Refractories. Method of making high density, fusion cast basic metallurgical refractory and the refractory itself. 4,657,878, 4-14-87, Cl. 501-115.000.
Clites, James L. Cutting torch holder. 4,695,041, 9-22-87, Cl. 266-66.000.
Clitherow, John W.; Bradshaw, John; Mackinnon, John W. M.; Judd, Duncan B.; Bays, David E.; Hayes, Roger; and Pearce, Andrew, to Glaxo Group Limited. Triazole amine compounds, their pharmaceutical compositions and method of use. 4,670,448, 6-2-87, Cl. 514-334.000.
Clive-Smith, Martin. Corner mechanism for collapsable container. 4,638,744, 1-27-87, Cl. 108-56.100.
Clizbe, Lane A.: *See—*
Alt, Gerhard H.; Chupp, John P.; and Clizbe, Lane A., 4,665,228, Cl. 564-152.000.
Cloke, Martin; Horton, Michael; Menne, Rudolf; and Stwiorok, Andreas, to Ford Motor Company. Engine combustion chamber construction. 4,706,622, 11-17-87, Cl. 123-306.000.
Cloke, Robert L., to Priam Corporation. Data processing system including encoder, decoder and write precompensator, using run length limited code. 4,691,254, 9-1-87, Cl. 360-45.000.
Cloke, Robert L., to Priam Corporation. Composite gate generator circuit for detecting valid data signals. 4,697,098, 9-29-87, Cl. 307-354.000.
Cloots, Henry R. Method and apparatus for fluidized bed combustion. 4,646,637, 3-3-87, Cl. 110-245.000.
Clopay Corporation: *See—*
Cancio, Leopoldo V.; Fitzsimmons, James N.; Mortellite, Robert M.; and Wu, Pai-Chuan, 4,668,463, Cl. 264-556.000.
Clorox Company, The: *See—*
Baker, Harold R.; Thrower, Eugene S.; and Simpson, David C., 4,690,779, Cl. 252-546.000.
Chang, Daniel M.; and Wiersema, Richard J., 4,708,816, Cl. 252-186.250.
Choy, Clement K.; and Keen, Frederick I., 4,657,692, Cl. 252-99.000.
Choy, Clement K.; Keen, Frederick I.; Garabedian, Aram; and Spurgeon, Colleen J., 4,695,394, Cl. 252-97.000.
Focaracci, Julio P., 4,646,973, Cl. 239-428.500.
Hsieh, Chung-Lu; Kong, Stephen B.; Steichen, Dale S.; and Wheeler, Harold R., 4,655,781, Cl. 8-111.000.
Ku, Hao, 4,659,519, Cl. 260-502.00R.
Moll, Karl, 4,652,389, Cl. 252-90.000.
Smith, William L.; and Munk, Barbara H., 4,648,987, Cl. 252-559.000.
Zielske, Alfred G., 4,661,293, Cl. 260-377.000.
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Counts, Lewis W.; and Close, JoAnn P., 4,639,683, Cl. 330-253.000.
Close, Kelly R., to Sungene Technologies Corporation. Process for regenerating corn. 4,665,030, 5-12-87, Cl. 435-240.000.
Closmann, Philip J., to Shell Oil Company. Steam drive from fractured horizontal wells. 4,633,948, 1-6-87, Cl. 166-271.000.
Closmann, Philip J., to Shell Oil Company. Measuring relative permeability to steam in cores of water and oil containing reservoir formations. 4,669,299, 6-2-87, Cl. 73-38.000.
Closmann, Philip J.: *See—*
Zemel, Bernard; and Closmann, Philip J., 4,712,006, Cl. 250-269.000.
Clossen, Kenneth. Bracket and repair method. 4,695,039, 9-22-87, Cl. 254-134.30R.
Clostermeyer, Gerhard; Konekamp, Werner; and Tooten, Karl-Heinz, to Claas Ohg. Mobile large baling press. 4,635,543, 1-13-87, Cl. 100-89.000.
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Busse, Winfried; Freye, Theodor; Tooten, Karl-Heinz; and Clostermeyer, Gerhard, 4,656,812, Cl. 53-399.000.
Cloud Company, The: *See—*
Rucker, James, 4,664,720, Cl. 134-22.100.
Cloud, Ernest. Trap hauling and ejecting method. 4,644,682, 2-24-87, Cl. 43-100.000.
Cloud, James M., Jr.; and Weideman, William R., to E-Systems, Inc. Radiation level reporting system. 4,654,528, 3-31-87, Cl. 250-336.100.
Cloud, John A., to Energy Machinery. Oil separator. 4,684,467, 8-4-87, Cl. 210-519.000.
Cloue, Jean-Marc, to Fragema. Nuclear fuel rod having pellet stack holding means. 4,699,757, 10-13-87, Cl. 376-412.000.

- Clough, Douglas O., to Hollingsworth (U.K.) Ltd. Friction spinning apparatus. 4,651,516, 3-24-87, Cl. 57-401.000.
- Clough, Douglas O.; and Yates, Stephen W., to Hollingsworth (U.K.) Ltd. Fibre-opening unit for an open-end spinning unit. 4,698,961, 10-13-87, Cl. 57-405.000.
- Clough, Douglas O., to Hollingsworth (U.K.) Limited. Friction spinning apparatus. 4,711,083, 12-8-87, Cl. 57-301.000.
- Clough, John M.; Lewis, Timothy; and Gravestock, Michael B., to Imperial Chemical Industries PLC. Heterocyclic compounds. 4,636,247, 1-13-87, Cl. 71-92.000.
- Clough, John M.; and Griffin, David A., to Imperial Chemical Industries Plc. Triazole and imidazole compounds useful as plant growth regulators and fungicides. 4,684,396, 8-4-87, Cl. 07-92.000.
- Clough, Patrick V. F.; and Lobo, Natividade A. Communications systems. 4,672,674, 6-9-87, Cl. 381-71.000.
- Clough, Peter S.: *See—*
  - Parkes, Adrian S.; Corbett, Gordon J.; Clough, Peter S.; and Barker, Colin N. H., 4,643,855, Cl. 264-36.000.
- Clough, Roger L.: *See—*
  - Aubert, James H.; Clough, Roger L.; Curro, John G.; Quintana, Carlos A.; Russick, Edward M.; and Shaw, Montgomery T., 4,673,695, Cl. 521-64.000.
- Clouth Gummiwerke Aktiengesellschaft: *See—*
  - Ortwein, Hermann; Krettek, Ottmar; and Nicolin, Johannes, 4,637,646, Cl. 295-37.000.
  - Ortwein, Hermann, 4,696,429, Cl. 238-2.000.
- Cloutier, Donald C., to M/A-COM, Inc. Polarized signal receiving apparatus. 4,679,009, 7-7-87, Cl. 333-21.00A.
- Cloutier, Marius; Bourgeois, Jean-Marc; and Lalonde, Francois, to Hydro-Quebec. Alarm system and method for detecting proximity of an object to electrical power lines. 4,675,664, 6-23-87, Cl. 340-685.000.
- Cloutier, Marius: *See—*
  - Lalonde, Francois; Bourgeois, Jean-Marc; and Cloutier Marius, 4,675,670, Cl. 340-870.370.
- Cloutier, Richard. Snow blower with snow channel of vertical scraper snow belts. 4,680,881, 7-21-87, Cl. 37-237.000.
- Cloutier, Robert P.; Gates, Richard A.; and Wolcott, Dana W., to Eastman Kodak Company. Motor-driven camera mechanism. 4,659,200, 4-21-87, Cl. 354-121.000.
- Cloutier, Robert P.: *See—*
  - Cooper, Andrew T.; Cloutier, Robert P.; and Gates, Richard A., 4,660,950, Cl. 354-173.100.
- Clover, Daniel S.: *See—*
  - Clover, Norvin Q.; and Clover, Daniel S., 4,655,361, Cl. 220-85.00F.
- Clover Mgf. Co., Ltd.: *See—*
  - Okada, Hidekazu, 4,646,543, Cl. 66-117.000.
- Clover, Norvin Q.; and Clover, Daniel S. Containment tank. 4,655,361, 4-7-87, Cl. 220-85.00F.
- Clover, William M., Jr., to Orthomedics, Inc. Orthosis. 4,693,239, 9-15-87, Cl. 128-80.00F.
- Cloverline Incorporated, The: *See—*
  - Leopoldi, Norbert, 4,697,344, Cl. 30-124.000.
- Clow, Dereck, to BOC Group, plc, The. Inhalation apparatus. 4,715,998, 12-29-87, Cl. 261-142.000.
- Clowers, Earl: *See—*
  - Thoben, Matthew A.; Clowers, Earl; Cihi, Guy; Ball, Dean; McCurdy, Jack L.; and Rummelsburg, Al S., 4,645,909, Cl. 219-411.000.
- Clowes, Ernest J., to Aluminum Company of America. Method of forming a drawn and redrawn container body. 4,685,322, 8-11-87, Cl. 72-348.000.
- Clowes, Garth A.; and Collas, James P., to TTC. Voice-controlled telephone using visual display. 4,644,107, 2-17-87, Cl. 379-354.000.
- Cloyd, William C., to Custom Tool & Mfg. Co.; and Automation Development Corporation, part interest to each. Robot arm coupling apparatus. 4,696,524, 9-29-87, Cl. 439-197.000
- Clubley, Brian G.; Dellar, Richard J.; Buszard, David L.; and Richardson, Norman, to Ciba-Geigy AG. Phosphonic acid salts as flame retardants for polyurethanes and polyisocyanurates. 4,656,200, 4-7-87, Cl. 521-108.000.
- Clubley, Brian G.: *See—*
  - Richardson, Norman, deceased; Clubley, Brian G.; and Dellar, Richard J., 4,666,967, Cl. 524-130.000.
- Clucas, Robert A.: *See—*
  - Pfaff, Paul H.; Spagna, Richard N.; Clucas, Robert A.; Coulson, Paul; and Eskandry, Ezra D., 4,679,035, Cl. 340-572.000.
- Cluff, Stephen L.; and Strolle, Clifford H., to Du Pont de Nemours, E. I., and Company. Flexible coating compositions. 4,665,128, 5-12-87, Cl. 525-131.000.
- Clum, Charles E.; Murray, William V.; and Lukenbach, Elvin R., to Johnson & Johnson Baby Products Company. Sunscreen compositions. 4,663,156, 5-5-87, Cl. 424-59.000.
- Clum, Charles E.: *See—*
  - Murray, William V.; Clum, Charles E.; and Lukenbach, Elvin R., 4,663,155, Cl. 424-59.000.
- Cluniat, Claude; and Allanic, Michel, to Thomson-LGT. Device for limiting the power transmission of radiowave transmitters. 4,660,003, 4-21-87, Cl. 333-17.00L.
- Cly-Del Manufacturing Company, The: *See—*
  - Greguoli, Richard A., 4,708,043, Cl. 83-219.000.
- Clyde, Inc.: *See—*
  - Clyde, Robert A., 4,701,848, Cl. 364-300.000.
- Clyde, Robert A., to Clyde, Inc. System for effectively paralleling computer terminal devices. 4,701,848, 10-20-87, Cl. 364-300.000.
- Clymer, Jack W., to Telex Computer Products, Inc. Reel hub latch. 4,664,327, 5-12-87, Cl. 242-68.300.
- Clyne, Carl W.: *See—*
  - Richmond, Donald W.; Clyne, Carl W.; and Holben, Tod M., 4,693,902, Cl. 426-407.000.
- Clynes, Manfred. Computerized system for imparting an expressive microstructure to succession of notes in a musical score. 4,704,682, 11-3-87, Cl. 364-419.000.
- CM & E/California, Inc.: *See—*
  - Smart, W. James, 4,714,010, Cl. 98-115.400.
- CMI Corporation: *See—*
  - Rowe, Murray A., 4,708,520, Cl. 404-103.000.
  - Swisher, George W., Jr., 4,637,753, Cl. 404-90.000.
  - Trudeau, Curtis A., 4,700,804, Cl. 181-121.000.
- CMI, Inc.: *See—*
  - Talbot, Douglas C., 4,649,027, Cl. 422-84.000.
- CMT Costruzioni Meccaniche e Tecnologia S.p.A.: *See—*
  - Tomatis, Stefano, 4,664,613, Cl. 425-182.000.
- CMU-Gesellschaft fuer Materialrueckgewinnung: *See—*
  - Riemann, Hanns-Helmut; Skaletz, Heinz-Josef; and Sonnenschein, Hans, 4,634,060, Cl. 241-74.000.
- CMX Systems, Inc.: *See—*
  - Augustyn, Walter H., 4,702,603, Cl. 356-351.000.
- CNRS: *See—*
  - Rochas, Jean-Francois; Lapoulle, Bertrand; Leroy, Yves; Mamouni, Ahmed; and Van de Velde, Jean-Claude, 4,650,345, Cl. 374-9.000.
- Co-Ex Pipe Company, Inc.: *See—*
  - Murley, Jackie D., 4,636,341, Cl. 264-37.000.
- Co-Ordinate Technology Ltd.: *See—*
  - Sandbach, Rex H.; and Poole, Alan, 4,694,776, Cl. 118-500.000.
- Co.Pro.San. S.r.l.: *See—*
  - Bellati, Patrizia, 4,669,455, Cl. 128-78.000.
- Co, Ramon S.: *See—*
  - Watson, George A.; Co, Ramon S.; Fuhrman, James L.; and Avella, Frank, 4,706,244, Cl. 370-69.100.
- Co, Yee tiat O. Blown film tube diameter control apparatus. 4,699,580, 10-13-87, Cl. 425-140.000.
- Coachmen Industries, Inc.: *See—*
  - McElmurry, Terry J.; Davis, H. Coleman; Leftwich, William B.; and Markel, David, 4,639,953, Cl. 5-43.000.
  - Takace, James A., 4,667,917, Cl. 248-398.000.
- Coad, Brian C., to GTE Products Corporation. Sintered compact and process for producing same. 4,690,711, 9-1-87, Cl. 75-244.000.
- Coad, George L.; Hutchinson, Martin A.; and Shaw, R. Howard, to Varian Associates, Inc. Transport system for superconductor wafers. 4,647,266, 3-3-87, Cl. 414-225.000.
- Coad, George L.: *See—*
  - Layman, Frederick P.; Huntley, David A.; Dick, Paul H.; Coad, George L.; Kuhlman, Michael J.; Vecta, Roger M.; and Hobson, Phillip M., 4,705,951, Cl. 250-442.100.
- Coal Industry (Patents) Limited: *See—*
  - Brooks, Derek J.; and James, Granville C., 4,643,483, Cl. 299-81.000.
  - Buchanan, David J.; Davis, Richard; Jackson, Peter J.; and Mason, Iain M., 4,653,031, Cl. 367-59.000.
  - Cooper, Gregory R.; and Pragnell, Robert J., 4,670,071, Cl. 156-71.000.
  - Goleczka, Joseph; Mills, Edmund P.; Harrison, Edward K.; and Nichols, Roy, 4,643,977, Cl. 436-34.000.
  - Lockey, Joseph, 4,704,793, Cl. 30-187.000.
  - Lynch, Gordon; McLuckie, Peter; Mark, David; and Vincent, James H., 4,675,034, Cl. 55-270.000.
  - Mills, Peter S.; and Daly, Ivor K., 4,660,985, Cl. 366-5.000.
  - Napier, Brian A.; and Fisher, Maurice J., 4,711,039, Cl. 34-57.00A.
  - Oswald, Gordon K. A., 4,697,190, Cl. 343-719.000.
  - Syred, Nicholas; and Biffin, Martin, 4,634,456, Cl. 55-52.000.
  - Thorp, Peter; and Manley, Roger E. W., 4,635,629, Cl. 128-202.260.
  - Wolfenden, John R., 4,643,482, Cl. 299-1.000.
  - Yin, Candido C.; and Matthews, Graham L., 4,636,227, Cl. 55-74.000.
- Coal-O-Matic PVBA: *See—*
  - Melis, Florentinus; Verbergt, Jan; and Van Rooy, Willy, 4,649,260, Cl. 219-267.000.
- Coalair Systems: *See—*
  - Wynosky, Charles E.; and Mraz, Joseph, 4,711,607, Cl. 406-30.000.
- Coalair Systems Limited Partnership: *See—*
  - Dunbar, Richard M.; Wynosky, Charles E.; and Stoiber, Henry E., 4,697,962, Cl. 406-15.000.
- Coalequip (Proprietary) Limited: *See—*
  - Dawe, Stephen G.; and Brews, James A., 4,638,874, Cl. 175-321.000.
- Coan, Michael H., to Miles Laboratories, Inc. Method of preparing alpha-1-proteinase inhibitor. 4,697,003, 9-29-87, Cl. 530-380.000.
- Coash, Ronald J., to Emhart Industries, Inc. Garage door opener using transmitter with SAW oscillator modulator. 4,684,853, 8-4-87, Cl. 318-16.000.
- Coassolo, Alfredo: *See—*
  - Venturello, Carlo; Alneri, Enzo; Coassolo, Alfredo; and D'Aloisio, Rino, 4,701,550, Cl. 560-180.000.
- Coastal Engineered Products Company, Inc.: *See—*
  - Coll, Gene P.; and Leonardo, Ignazio, 4,709,980, Cl. 350-96.200.
- Coate, Godfrey T.; and Coccoli, Joseph D., to Charles Stark Draper Laboratory, Inc., The. Spliceless optical fiber resonant ring laser gyroscopic system. 4,678,334, 7-7-87, Cl. 356-350.000.

- Coate, Godfrey T.: *See*—
  - Hilton, Richard D.; and Coate, Godfrey T., 4,698,635, Cl. 342-64.000.
- Coates, Derek, to Holmes & Marchant Promotions, Limited. Envelope for receiving a plurality of coupons or promotional vouchers. 4,643,451, 2-17-87, Cl. 283-56.000.
- Coates, Fredrica V.; Jannoni, Richard, and Orsini, Jean. Garment having improved, self closing, filamentary fasteners. 4,680,030, 7-14-87, Cl. 604-391.000.
- Coates, Fredrica V. Adjustable size diaper and folding method therefor. 4,681,581, 7-21-87, Cl. 604-391.000.
- Coates, Ian H.; Mills, Keith; Webb, Colin F.; Dowle, Michael D.; and Bays, David E., to Glaxo Group Limited. 3 amino alkyl indoles for use in treating migraine. 4,636,521, 1-13-87, Cl. 514-415.000.
- Coates, Ian H.; Mills, Keith; Webb, Colin F.; Dowle, Michael D.; and Bays, David E., to Glaxo Group Limited. 5-substituted 3-aminoalkyl indoles useful in treatment of migraine. 4,672,067, 6-9-87, Cl. 514-323.000.
- Coates, Ian H.; Bell, James A.; Humber, David C.; and Ewan, George B., to Glaxo Group Limited. 1,2,3,9-tetrahydro-3-imidazol-1-ylmethyl-4H-carbazol-4-ones, composition containing them, and method of using them to treat neuronal 5HT function disturbances. 4,695,578, 9-22-87, Cl. 514-397.000.
- Coates, John, to Colgate-Palmolive Company. Absorbent article. 4,704,107, 11-3-87, Cl. 604-357.000.
- Coates, Philip V.; and Eaton, Brian J., to Emi Limited. Controlling the grey levels represented by a video signal. 4,682,229, 7-21-87, Cl. 358-166.000.
- Coates, Stephen J., to Merkle Engineers, Inc. Insulated refractory shield. 4,705,475, 11-10-87, Cl. 432-238.000.
- Coates, Stephen R.; and Binder, Walter L., to American Hoechst Corporation. Enzyme/immunofluorescent assay for anti-treponemal antibodies. 4,645,737, 2-24-87, Cl. 435-7.000.
- Coates, Stephen R.: *See*—
  - Johnson, Larry J.; Coates, Stephen R.; and Loor, Rueyming, 4,681,742, Cl. 422-102.000.
- Coates, William J.: *See*—
  - Roe, Anthony M.; Coates, William J.; Slater, Robert A.; Breukelman, Stephen P.; and Meakins, George D., 4,678,786, Cl. 514-247.000.
- Coatex S.A.: *See*—
  - Gonnet, Olivier; and Rousset, Jacky, 4,687,789, Cl. 523-122.000.
  - Roca, Yves; Rousset, Jacky; Bouchut, Pierre; Leblanc, Marie-Christine; and Baffreau, Daniel, 4,681,634, Cl. 106-90.000.
- Coatney, Charles W., to Filper Industries, Inc. Color measuring and control device. 4,707,138, 11-17-87, Cl. 356-402.000.
- Coats & Clark, Inc.: *See*—
  - Castel, Lawrence, 4,688,341, Cl. 40-5.000.
  - Rees, John J. M., 4,654,748, Cl. 361-220.000.
- Coats, James M.: *See*—
  - Aposchanski, Alexander; Buglione, Arthur J.; Coats, James M.; and Edelman, Brian S., 4,644,474, Cl. 364-431.050.
- Cobaugh, Robert F.: *See*—
  - Bobb, Clifford F.; and Cobaugh, Robert F., 4,636,021, Cl. 339-75.0MP.
- Cobb, Albert R., III: *See*—
  - Raab, Andrew F.; and Cobb, Albert R., III, 4,679,588, Cl. 137-560.000.
- Cobb, Arthur L., Jr.: *See*—
  - Levine, Peter A.; Cobb, Arthur L., Jr.; Johnson, Cydney A.; and Peterson, Gary R., 4,695,878, Cl. 358-44.000.
- Cobb, David A., to Felt Products Mfg. Co. Composite embossed sandwich gasket with graphite layer. 4,676,515, 6-30-87, Cl. 277-235.00B.
- Cobb, Delwin E.: *See*—
  - Roussin, Michael A.; and Cobb, Delwin E., 4,703,838, Cl. 188-316.000.
- Cobb, Jasper E., III: *See*—
  - Reeves, William E.; and Cobb, Jasper E., III, 4,653,271, Cl. 60-494.000.
- Cobb, Melvin. Electrical power conservation circuit. 4,687,947, 8-18-87, Cl. 307-17.000.
- Cobb, Michael E.: *See*—
  - Allen, Jimmy D.; Cobb, Michael E.; Hillman, Robert S.; Mungall, Dennis R.; Ostoich, Vladimir E.; and Stroy, Gary H., 4,712,460, Cl. 83-208.000.
- Cobb, R. Lynn; and Mitchell, Michael D., to Phillips Petroleum Company. Alkylation of diphenyl oxide. 4,668,296, 5-26-87, Cl. 106-188.000.
- Cobb, Raymond L., to Phillips Petroleum Co. Novel tetracyclic trienes. 4,668,835, 5-26-87, Cl. 585-360.000.
- Cobb, Raymond L., to Phillips Petroleum Company. Purification of iodine-containing mixtures and compositions useful therefor. 4,683,033, 7-28-87, Cl. 203-38.000.
- Cobb, Raymond L., to Phillips Petroleum Company. Tetramethyltetrahydronaphthalene purification process. 4,695,671, 9-22-87, Cl. 585-858.000.
- Cobb, Raymond L., to Phillips Petroleum Company. Preparation of aromatic iodine compounds. 4,716,254, 12-29-87, Cl. 570-147.000.
- Cobb, Richard G. Key storage and monitoring system. 4,673,915, 6-16-87, Cl. 340-330.000.
- Cobb, Ronald E. Body sail. 4,669,407, 6-2-87, Cl. 114-39.000.
- Cobb, Ronald W.; Lollis, Charles A.; and Crane, Nancy S., to Apco Graphics, Inc. Post cap apparatus. 4,641,448, 2-10-87, Cl. 40-606.000.
- Cobb, Ronald W., to Apco Graphics, Inc. Directory sign mask. 4,653,209, 3-31-87, Cl. 40-618.000.
- Cobb, William O. Wood splitting device. 4,646,799, 3-3-87, Cl. 144-193.00G.
- Cobb, William O. Tubing anchor assembly. 4,646,827, 3-3-87, Cl. 166-88.000.
- Cobble, Danna J. Nursing blanket. 4,712,251, 12-15-87, Cl. 2-49.00R.
- Cobbs, Richard W. Body-supported hand-operated instrument desk. 4,715,293, 12-29-87, Cl. 108-43.000.
- Cobe Laboratories, Inc.: *See*—
  - Brose, Tom L., 4,643,714, Cl. 604-4.000.
  - Dykstra, Raymond C., 4,684,102, Cl. 251-7.000.
  - Gardineer, Bayard G., 4,674,962, Cl. 417-477.000.
  - Gordon, Timothy M.; Stewart, Rodger L.; and Wellington, Daniel J., 4,663,125, Cl. 422-48.000.
  - Heath, Gary B.; Palsulich, William G.; Manica, Keith J.; and Swan, Jack C., Jr., 4,666,598, Cl. 210-239.000.
  - Mulzet, Alfred P.; and Kellogg, Robert M., 4,647,279, Cl. 494-45.000.
  - Mulzet, Alfred P., 4,708,712, Cl. 494-45.000.
  - Palsulich, William G., 4,676,467, Cl. 248-221.300.
  - Price, James R.; and Leiner, Kevin P., 4,703,989, Cl. 439-283.000.
  - Shouldice, David R.; and Treu, Dennis M., 4,715,398, Cl. 137-171.000.
  - Stewart, Rodger L., 4,656,004, Cl. 422-46.000.
  - Swan, Jack C., Jr.; and Poggioli, Paolo, 4,681,606, Cl. 55-193.000.
- Cobelplast N.V.S.A.: *See*—
  - Van Iseghem, Augustinus E. M., 4,681,797, Cl. 428-212.000.
- Cobern, Martin E., to Teleco Oilfield Services Inc. Mud turbine tachometer. 4,647,853, 3-3-87, Cl. 324-166.000.
- Coble, Gary L. Refractory insulation mounting system and insulated structures. 4,647,022, 3-3-87, Cl. 266-282.000.
- Coble, Gary L. Refractory insulation mounting system and insulated structures. 4,653,171, 3-31-87, Cl. 29-455.00R.
- Coble, Stephen J.; and Arkans, Edward J. IV rate meter. 4,681,569, 7-21-87, Cl. 604-253.000.
- Coburn, Arthur E.; and Deal, Roger, to Helsco Metals Inc. Treatment of residues for metal recovery. 4,687,559, 8-18-87, Cl. 204-110.000.
- Coburn Corporation: *See*—
  - Coburn, Joseph W., Jr.; and Bryson, Trudy J., 4,656,072, Cl. 428-40.000.
- Coburn, David E., to Kelley, Thomas J. Sound barrier. 4,643,271, 2-17-87, Cl. 181-210.000.
- Coburn, Joseph W., Jr.; and Bryson, Trudy J., to Coburn Corporation. Retroreflective material for providing a colored decorative effect in visible light. 4,656,072, 4-7-87, Cl. 428-40.000.
- Coburn, Joseph W., Jr. Phosphorescent material and process of manufacture. 4,663,214, 5-5-87, Cl. 428-204.000.
- Coburn, Joseph W., Jr. Phosphorescent material and process of manufacture. 4,695,336, 9-22-87, Cl. 156-67.000.
- Coburn Optical Industries, Inc.: *See*—
  - Tusinski, Joseph; and Mathews, Herbert H., 4,674,190, Cl. 33-172.00R.
- Coburn, Orin W.: *See*—
  - Maloy, Rex M.; and Moore, John C., 4,664,245, Cl. 194-319.000.
- Coburn, Richard J.; Dean, Walter C., II; Kegelman, Thomas D.; and Milliard, Norman L., to KCR Technology, Inc. Electrographic charge deposition apparatus. 4,638,339, 1-20-87, Cl. 346-153.100.
- Coburn, Robert E.; and Matthews, John A., to United Technologies Corporation. Combustion chamber rear outer seal. 4,640,092, 2-3-87, Cl. 60-39.360.
- Coburn, Robert E.; and Matthews, John A., to United Technologies Corporation. Sliding joint for an annular combustor. 4,686,823, 8-18-87, Cl. 60-39.320.
- Coca-Cola Company, The: *See*—
  - Aschberger, Matthias; Farber, Karlheinz; and Deininger, Anton, 4,646,797, Cl. 141-375.000.
  - Aschberger, Matthias; Farber, Karlheinz; and Deininger, Anton, 4,655,050, Cl. 62-200.000.
  - Aschberger, Matthias; Farber, Karlheinz; and Deininger, Anton, 4,656,933, Cl. 99-323.100.
  - Aschberger, Matthias; Farber, Karlheinz; Wolf, Ulrich; and Deininger, Anton, 4,665,809, Cl. 99-323.100.
  - Aschberger, Matthias; Farber, Karlheinz; and Deininger, Anton, 4,705,193, Cl. 222-146.600.
  - Barrash, Marshall J., 4,705,186, Cl. 220-269.000.
  - Brandes, John H.; King, Eddie W.; and Summerville, Don S., 4,682,709, Cl. 221-2.000.
  - Credle, William S., Jr., 4,634,350, Cl. 417-393.000.
  - Credle, William S., Jr., 4,681,518, Cl. 417-395.000.
  - Credle, William S., Jr., 4,682,937, Cl. 417-393.000.
  - Day, Gerald G., 4,659,132, Cl. 296-24.00R
  - Ellis, Annie T., 4,658,872, Cl. 141-311.00R.
  - Gaunt, Loraine E.; Crosby, Samuel C.; Saunders, William J.; and Bruffey, Robert D., Jr., 4,635,824, Cl. 222-129.100.
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- Coccaro, Albert V. Apparatus for jacking and dollying an affixed vehicle wheel assembly. 4,690,605, 9-1-87, Cl. 414-429.000.
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- Cocksedge, George T. Tricycle and drive therefor. 4,634,137, 1-6-87, Cl. 280-256.000.
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  - Krinski, Thomas L.; Coco, Charles E.; and Steinmetz, Alan L. 4,689,381, Cl. 527-201.000.
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  - Gallager, Robert G., 4,700,349, Cl. 371-30.000.
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  - Parker, Lanny L., 4,642,488, Cl. 307-475.000.
  - Wei, Lee-Fang, 4,641,327, Cl. 375-114.000.
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- Codrington, Ernest R. Pilot fuel regulating device. 4,637,353, 1-20-87, Cl. 123-27.0GE.
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- Coe, Larry D. Cylindrical back plane structure for receiving printed circuit boards. 4,679,872, 7-14-87, Cl. 439-61.000.
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  - Browning, Robert A., Jr.; Ely, Gary W.; and Hayes, Leonard L., 4,708,180, Cl. 144-213.000.
  - Ely, Gary W., 4,672,552, Cl. 364-475.000.
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- Coe, Richard J., to Boeing Company, The. Parasitically coupled, complementary slot-dipole antenna element. 4,710,775, 12-1-87, Cl. 343-727.000.
- Coe, Thomas D.; and Gross, Robert F., to QA Technology Company. Electrical circuit test probe and connector. 4,659,987, 4-21-87, Cl. 324-158.00P.
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  - Dedoro, Bruno, 4,694,381, Cl. 362-307.000.
- Coen Company, Inc.: *See—*
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  Curatolo, Benedict S.; Sentman, Robert C.; and Coffey, Gerald P., 4,640,976, Cl. 528-336.000.
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  Simonnet, Jacques, 4,687,463, Cl. 494-83.000.

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  Pruchon, Philippe, 4,704,951, Cl. 98-1.500.

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  Vere, Bernard; Mathevon, Paul; and Decarsin, Michel, 4,633,569, Cl. 29-514.000.

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Cohen, Arie: *See—*
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Cohen, Donald, to Cordis Corporation. Optical fiber pressure transducer. 4,703,757, 11-3-87, Cl. 128-667.000.

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Cohen, Irun R.: *See—*

Stanford, John L.; Cohen, Irun R.; Frenkel, Ayala; Holoshitz, Joseph; van Eden, Willem; and Rook, Graham A. W., 4,716,038, Cl. 424-92.000.

Cohen, Jack; and Wardle, John L., to Circon Corporation. Torsion resistant vertebrated probe of simple construction. 4,686,963, 8-18-87, Cl. 128-4.000.

Cohen, Jacques: *See—*

Belbel, Elie; Blanchard, Christian; Cohen, Jacques; Haury, Andre; Lauraire, Michel; and Moreau, Luc, 4,650,937, Cl. 200-77.000.

Cohen, Jerome. Pizza crown assembly. 4,700,843, 10-20-87, Cl. 206-521.000.

Cohen, Jerome B.: *See—*

Rinik, Christine; Cohen, Jerome B.; and Hilliard, John E., 4,649,556, Cl. 378-71.000.

Cohen, Joel R.: *See—*

Milberger, Walter E.; Cohen, Joel R.; and Dubrowsky, Leonard, 4,682,126, Cl. 333-81.00B.

Cohen, Joel S., to Prescolite, Inc. Track lighting adapter. 4,699,439, 10-13-87, Cl. 439-207.000.

Cohen, Joel S.: *See—*

Lasker, Martin L.; and Cohen, Joel S., 4,713,737, Cl. 362-285.000.

Cohen, Jonathan M.; Berry, Ira R.; and Borkan, Lionel, to Pharmacaps, Inc. Preparation of gelatin-encapsulated controlled release composition. 4,708,834, 11-24-87, Cl. 264-4.300.

Cohen, Joseph; and Lorthioir, Gerard, to Pechiney. Apparatus for the production of a metal by electrolyzing halides in a molten salt bath, by a simultaneous continuous double deposit. 4,686,025, 8-11-87, Cl. 204-245.000.

Cohen, Joseph D., to General Electric Company. Fuel nozzle. 4,638,636, 1-27-87, Cl. 60-741.000.

Cohen, Lenard: *See—*

Gordon, Michael E.; Cohen, Lenard; Hudspeth, William; and Mills, Paul, 4,662,695, Cl. 339-14.00R.

Cohen, Leonard G.; Johnson, David W., Jr.; and MacChesney, John B., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Optical fiber with depressed index outer cladding. 4,691,990, 9-8-87, Cl. 350-96.330.

Cohen, Leonard G.; and Fleming, James W., to American Telephone and Telegraph Company, AT&T Bell Laboratories. BeF_2-based optical fibers. 4,699,464, 10-13-87, Cl. 350-96.340.

Cohen, Louis, to B. F. Goodrich Company, The. Polymerization reactor coatings and use thereof. 4,696,983, 9-29-87, Cl. 526-62.000.

Cohen, Lyle A.: *See—*

Gordon, Arnold Z.; and Cohen, Lyle A., 4,686,109, Cl. 427-36.000.

Cohen, Marc M., to United States of America, National Aeronautics and Space Administration. Elevated waterproof access floor system and method of making the same. 4,637,181, 1-20-87, Cl. 52-126.500.

Cohen, Marlene L.; Fuller, Ray W.; Garbrecht, William L.; and Whitten, Kathleen R., to Eli Lilly and Company. Selective method for blocking $5HT_2$ receptors. 4,713,384, 12-15-87, Cl. 514-288.000.

Cohen, Maurice. Foldable display rack. 4,655,354, 4-7-87, Cl. 211-199.000.

Cohen, Melvin. Carpet sample display device. 4,682,697, 7-28-87, Cl. 211-45.000.

Cohen, Mordechay: *See—*

Serfaty, Salomon; and Cohen, Mordechay, 4,651,026, Cl. 307-269.000.

Cohen, Mordehy, to Sundstrand Corporation. Deployment mechanism for a ram air turbine. 4,676,458, 6-30-87, Cl. 244-58.000.

Cohen, Mordehy; Bettenga, James L.; and Tjenstrom, Brian, to Sundstrand Corporation. Scavenge oil system. 4,683,984, 8-4-87, Cl. 184-6.200.

Cohen, Mordehy, to Sundstrand Corporation. Ram air turbine. 4,701,104, 10-20-87, Cl. 416-44.000.

Cohen, Morris, to NCR Corporation. Refresh system for a page addressable memory. 4,701,843, 10-20-87, Cl. 364-200.000.

Cohen, Noal; and Weber, Guiseppe F., to Hoffmann-La Roche Inc. 4-oxo-3,4-dihydro-2H-1-benzopyranyloxy alkanoic acid derivatives. 4,650,812, 3-17-87, Cl. 514-456.000.

Cohen, Norman: *See—*

Warren, Walter R., Jr.; and Cohen, Norman, 4,650,416, Cl. 431-121.000.

Cohen, Philip S.; and Schnittger, Robert E., Jr., to Michelman Inc. Packaging material and container having interlaminate electrostatic shield and method of making same. 4,685,563, 8-11-87, Cl. 206-328.000.

Cohen, Randy. Safety seat belt buckle. 4,675,956, 6-30-87, Cl. 24-657.000.

Cohen, Richard L.; and West, Kenneth W., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Precision nondestructive testing of metals. 4,667,149, 5-19-87, Cl. 324-64.000.

Cohen, Robert K. Quadrature phase signal processor. 4,714,913, 12-22-87, Cl. 340-347.00P.

Cohen, Samuel A.: *See—*

Motley, Robert W.; Manos, Dennis M.; Langer, William D.; and Cohen, Samuel A., 4,662,977, Cl. 156-345.000.

Cohen, Sidney: *See—*

Zajac, William V., Jr.; Kautz, Henry G.; Kautz, David J.; Bossert, Arthur J.; and Cohen, Sidney, 4,637,928, Cl. 423-659.000.

Cohen, Sidney M. Apparatus for calcining gypsum. 4,668,182, 5-26-87, Cl. 432-58.000.

Cohen, Sidney M., to Fuller Company. Method and apparatus for producing cement clinker including white cement. 4,682,948, 7-28-87, Cl. 432-58.000.

Cohen, Stephen C., to Petro-Canada Inc. Lubricating oil compositions containing novel combination of stabilizers. 4,652,385, 3-24-87, Cl. 252-48.600.

Cohen, Theodore; and Matz, James, to University of Pittsburgh. Method of synthesizing brevicomin and using same in beetle control. 4,695,584, 9-22-87, Cl. 514-456.000.

Cohen, Thierry V.: *See—*

Dagard, Philippe; and Cohen, Thierry V., 4,675,090, Cl. 204-182.300.

Cohen, Thomas S.; Laudig, Ronald C.; and Smith, Donald L., to AMP Incorporated. Electrical connector for an electrical cable. 4,688,87 8-25-87, Cl. 439-585.000.

Cohen, Uri. Record member with metallic antifriction overcoat. 4,678,722, 7-7-87, Cl. 428-642.000.

Cohen, William D., to North Atlantic Industries, Inc. Tracking head suspension for tape deck. 4,646,183, 2-24-87, Cl. 360-106.000.

Coherent, Inc.: *See—*

Bennett, Donald; and Saunders, Richard J., 4,707,837, Cl. 372-34.000.

Bowes, Donald; Allen, Peter N.; and Blake, William, 4,661,958, Cl. 372-34.000.

Cannon, Jeffrey L., 4,674,092, Cl. 372-33.000.

Hennings, David; and Manoukian, Nubar, 4,711,526, Cl. 350-170.000.

Sasnett, Michael W.; Rorden, Robert J.; and Gibson, Larry A., 4,648,093, Cl. 372-38.000.

Saunders, Richard J.; Hine, Derek L.; and Barker, Gerald C., 4,672,168, Cl. 219-121.0LK.

Cohn, Brian D.: *See—*

Ellerbroek, Brent L.; and Cohn, Brian D., 4,705,400, Cl. 356-353.000.

Cohn, David B., to Northrop Corporation. Multichannel or spark gap switch triggered by saturable inductor induced voltage pulse. 4,663,568, 5-5-87, Cl. 315-163.000.

Cohn, David W., to General Electric Company. Fluorescent lighting system. 4,642,741, 2-10-87, Cl. 362-320.000.

Cohn, Gabriel: *See—*

Blank, Thomas H.; and Cohn, Gabriel, 4,669,017, Cl. 360-128.000.

Cohn, Leonard A.: *See—*

Sullivan, Herbert W.; and Cohn, Leonard A., 4,707,781, Cl. 364-200.000.

Cohn, Patricia O.: *See—*

Andeen, Gerry B.; Matsumoto, Yasuo; and Cohn, Patricia O., 4,647,945, Cl. 346-1.100.

Cohn, Robert J.; Olsson, Frank C.; Holzman, James W.; and Santarelli, Paul, to Metropolitan Wire Corporation. Surgical case cart. 4,678,214, 7-7-87, Cl. 292-213.000.

Cohnen, Erich; and Armah, Ben, to Beiersdorf Aktiengesellschaft. Substituted 5-phenylthio-6-amino-pyrimidinones, a process for their preparation and their use, and formulations containing these compounds. 4,686,223, 8-11-87, Cl. 514-272.000.

Cohr, Lindsay W. J., to Allflex International Limited. Tag. 4,633,60 1-6-87, Cl. 40-301.000.

Cohrs, Gary D.; and Francisco, Edward E., Jr., to Flow Technology. Apparatus for determining the flow characteristic of a volumetric flowmeter. 4,674,317, 6-23-87, Cl. 73-3.000.

laus, to Erno Raumfahrttechnik GmbH. Combustion indepen-
rom ambient air. 4,663,933, 5-12-87, Cl. 60-214.000.
, Daniel. Tamper-evident, child-resistant closure and method.
520, 6-2-87, Cl. 215-220.000.
ceptors, Inc.: *See—*
rmann, Ronald A., 4,646,904, Cl. 194-334.000.
sermai., Raymond L., 4,712,049, Cl. 318-112.000.
isseur, Joseph L., 4,637,523, Cl. 221-13.000.
rl G.: *See—*
bin, Scott C.; and Coin, Carl G., 4,668,915, Cl. 324-309.000.
Russell E.; Burgers, Henri T.; and Stowers, Jeffery P., to
ia Panel Corporation. Modular molded vacuum test fixture.
155, 5-19-87, Cl. 324-158.00F.
lichael A., Sr.: *See—*
ray, Dale R.; and Coiro, Michael A., Sr., 4,699,088, Cl.
9-18.000.
lean-Marc: *See—*
raevens, Rene ; and Coisne, Jean-Marc, 4,675,131, Cl.
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, Pierre; Richard, Joseph; and Morin, Francois, to L'Etat
ıis represente par le Ministre des PTT (Centre National d'E-
des Telecommunications). Process for fabricating electronic
s based on thin-film transistors and capacitors. 4,689,116,
7, Cl. 156-651.000.
ves; and Pressiat, Robert, to Thomson-CSF. Airborne system
electrooptical detection, location and omnidirectional track-
a target. 4,647,761, 3-3-87, Cl. 250-203.00R.
id R., to Eastman Kodak Company. Signal processing method
pparatus for producing interpolated chrominance values in a
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eoffrey G.; and Findlay, John W. A., to Burroughs Wellcome
Pyridylvinyl-1H tetrazole having antihistamine activity.
033, 9-1-87, Cl. 514-343.000.
eoffrey G.: *See—*
lay, John W. A.; and Coker, Geoffrey G., 4,639,459, Cl.
4-343.000.
lay, John W. A.; and Coker, Geoffrey G., 4,650,807, Cl.
4-343.000.
lay, John W. A.; and Coker, Geoffrey G., 4,657,918, Cl.
4-318.000.
Dermed, John D.; Findlay, John W. A.; and Coker, Geoffrey
, 4,634,699, Cl. 514-223.000.
Gregory F.; and Armstrong, Bradford A. Beverage can wipe
in pouch affixed to can. 4,651,890, 3-24-87, Cl. 220-85.00R.
ames N., to Du Pont de Nemours, E. I., and Company. Blends
omers and linear polyesters. 4,680,344, 7-14-87, Cl. 525-176.000.
Tom P. Fastener, particularly suited for orthopedic use.
86, 3-31-87, Cl. 128-92.0YF.
, Inc.: *See—*
h, G. Teryl; Smith, Thomas L.; Jacklin, Keith A.; and Ham-
ond, James A., 4,698,252, Cl. 428-159.000.
Mark E.: *See—*
oshita, Roy Y.; McCollum, Patrick E.; and Colan, Mark E.,
705,962, Cl. 307-247.100.
Collum, Patrick E.; and Colan, Mark E., 4,665,355, Cl.
3-237.000.
Franco; and Vignotto, Angelo, to RIV-SKF Officine Di Villar
S.p.A. Sealing unit for mutually rotating members. 4,669,895,
Cl. 384-477.000.
Franco; Vignotto, Angelo; and Bessone, Mario, to RIV-SKF
e di Villar Perosa S.p.A. Axial and radial sealing assembly.
755, 6-23-87, Cl. 277-23.000.
Franco: *See—*
osso, Domenico; Colanzi, Franco; and Ragazzoni, Silvio,
640,238, Cl. 123-90.550.
one, Paolo; and Colanzi, Franco, 4,649,875, Cl. 123-90.580.
Albert E., to Plastics, Inc. Microwave oven turntable shelf
re. 4,713,513, 12-15-87, Cl. 219-10.55F.
, Thomas J.; and Buzby, George C., Jr., to American Home
cts Corporation. N-substituted-4(3)-nitrobenzene sulphona-
4,665,227, 5-12-87, Cl. 564-87.000.
, Thomas J.: *See—*
u-Gharbia, Magid A.; Freed, Meier E.; and Colatsky, Thomas
4,638,008, Cl. 514-411.000.
y, George C., Jr.; and Colatsky, Thomas J., 4,698,44[illegible], Cl.
4-86.000.
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ni, Giuseppe A. Apparatus for unwrapping and removal of
tubes. 4,701,119, 10-20-87, Cl. 425-436.00R.
h, Michael E.; Zeigler, Rodney N.; and Batt, Theodore J., to
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Roger; and Gillingham, Peter, to Mitel Corporation. Decimat-
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Horst; and Mayer, Udo, to BASF Aktiengesellschaft. Cationic
ocyanine dyes. 4,648,993, 3-10-87, Cl. 540-134.000.
Horst, to BASF Aktiengesellschaft. Naphtholazo ben-
kylene amines and salts thereof as dyes for acid-modified fibers,
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Horst; Degen, Hans-Juergen; and Dix, Johannes P., to BASF
gesellschaft. Benzoazoresorcinol dyes containing a quater-
aminoalkylene oxycarbonyl group. 4,656,256, 4-7-87, Cl.
5.000.

Colberg, Horst; and Hahn, Erwin, to BASF Aktiengesellschaft. Bisazo compounds containing anthranilic acid and thiazole moieties. 4,694,075, 9-15-87, Cl. 534-604.000.

Colbert, Robert E. Welding wire dispenser. 4,657,204, 4-14-87, Cl. 242-128.000.

Colborne, Martin J. Board game apparatus. 4,659,086, 4-21-87, Cl. 273-242.000.

Colbyrn, Everett L., Jr. Cattle/ewe estrus detector device. 4,685,421, 8-11-87, Cl. 119-1.000.

Colby, Donald B., to Lee L. Woodard, Inc. Foldable chaise lounge. 4,684,170, 8-4-87, Cl. 297-19.000.

Colclaser, Robert G., III: *See—*
  Truckenbrod, Gregory R.; Christiansen, David A.; Falk, Herbert S.; Johnson, Richard A.; and Colclaser, Robert G., III, 4,663,725, Cl. 364-505.000.

Colder Products Company: *See—*
  Blenkush, Brian J., 4,703,957, Cl. 285-239.000.

Colditz, Armin; and Klopsch, Siegfried, to Dr. Ing. Rudolf Hell GmbH. Apparatus for checking color pictures on a color monitor. 4,691,229, 9-1-87, Cl. 358-76.000.

Coldren, Bruce E.; and Krause, Kenneth W., to GMF Robotics Corporation. Gray scale vision method and system utilizing same. 4,707,647, 11-17-87, Cl. 318-568.000.

Coldren, Daniel R., to AMP Incorporated. Electrical terminal with wire receiving slot. 4,643,507, 2-17-87, Cl. 339-97.00P.

Coldren, Daniel R., to AMP Incorporated. Clamp for flat cable. 4,650,925, 3-17-87, Cl. 174-135.000.

Coldren, Daniel R., to AMP Incorporated. Strain relief for electrical connector assemblies. 4,657,331, 4-14-87, Cl. 339-125.00R.

Coldren, Daniel R., to AMP Incorporated. Electrical tab receptacle. 4,685,754, 8-11-87, Cl. 439-270.000.

Coldren, Daniel R., to AMP Incorporated. Tab-form terminal. 4,691,981, 9-8-87, Cl. 439-816.000.

Cole, Berton A.: *See—*
  Kowalski, Joseph C.; Mottaz, Donald A.; and Cole, Berton A., 4,693,926, Cl. 428-204.000.

Cole, Charles J.: *See—*
  Nagy, Monte L., Jr.; and Cole, Charles J., 4,695,497, Cl. 428-96.000.

Cole, Daniel L. Carrier apparatus for all terrain vehicle. 4,635,835, 1-13-87, Cl. 224-42.080.

Cole, David J.; and Cosh, Ian S., to U.S. Philips Corporation. Method of and apparatus for generating color matte signals. 4,636,839, 1-13-87, Cl. 358-22.000.

Cole, David M., to Tread Corporation. Security cabinet with disguised electronic control panel. 4,714,030, 12-22-87, Cl. 109-61.000.

Cole, Derek; and Arnold, Michael J., to Short Brothers PLC. Duct for hot air. 4,674,714, 6-23-87, Cl. 244-134.00B.

Cole, Edward H., Jr., to Borg-Warner Automotive, Inc. Chain-belt. 4,708,701, 11-24-87, Cl. 474-245.000.

Cole, Garland L.: *See—*
  Noble, Richard G.; Cole, Garland L.; and Usher, Irwin H., 4,672,533, Cl. 364-200.000.

Cole, Gerald F.: *See—*
  Lee, Chie-Ying; West, James D.; and Cole, Gerald F., 4,643,709, Cl. 494-37.000.

Cole, Graham M., to Dreamland Electrical Appliances PLC. Electric blankets. 4,684,785, 8-4-87, Cl. 219-212.000.

Cole, Gregory B. Device for slicing and storing food such as cheese and the like. 4,697,488, 10-6-87, Cl. 83-437.000.

Cole, Jack H.; and Fair, Delbert W., to Conoco Inc. Wide dynamic range hydraulic vibrator. 4,641,725, 2-10-87, Cl. 181-119.000.

Cole, Jack H., to Conoco Inc. Oscillating orbital vibrator. 4,709,362, 11-24-87, Cl. 367-189.000.

Cole, Jack M.: *See—*
  Abbe, Bruce W.; and Cole, Jack M., 4,684,472, Cl. 210-720.000.

Cole, James, to Dee Cramer, Inc. Filter assembly for an exhaust stack. 4,637,300, 1-20-87, Cl. 98-60.000.

Cole, James B., to Boeing Company, The. Wind edge movable airfoil having variable camber. 4,650,140, 3-17-87, Cl. 244-214.000.

Cole, James B., to Boeing Company, The. Variable camber leading edge assembly for an airfoil. 4,706,913, 11-17-87, Cl. 244-214.000.

Cole, Jimmy R.: *See—*
  Woods, Theodore E.; Cole, Jimmy R.; and Burcham, James T., 4,709,355, Cl. 367-16.000.

Cole, John B., to Shell Oil Company. Tank gauge system. 4,689,489, 8-25-87, Cl. 250-560.000.

Cole, John R. Mounting bracket. 4,699,345, 10-13-87, Cl. 248-276.000.

Cole, Lanier G.: *See—*
  Bryant, Stephen M.; and Cole, Lanier G., 4,672,380, Cl. 342-92.000.

Cole, Martin T. Smoke detecting apparatus. 4,665,311, 5-12-87, Cl. 250-214.00C.

Cole, Martin T. Smoke detection apparatus. 4,670,741, 6-2-87, Cl. 340-630.000.

Cole, Martin T. Optical smoke detectors. 4,714,347, 12-22-87, Cl. 356-339.000.

Cole-Parmer Instrument Company: *See—*
  Hogan, Lawrence R., 4,690,307, Cl. 222-95.000.
  Wolff, Donald L.; McCauley, Porter T.; Stiefel, Paul; Takacs, Gyoergy J.; and Adams, Roman A., 4,715,786, Cl. 417-22.000.

Cole, Paul A.: *See—*
  Morland, Mark R.; Cole, Paul A.; Cousins, Ivan J.; and Zandonatti, Raymond A., 4,708,661, Cl. 439-77.000.

Cole, Paul M.; Johanson, William G.; McConnell, Ronald F.; Popper, Peter; and Velvel, William E., to Du Pont de Nemours, E. I., and Company. Centrifuge rotor having a flexible carrier. 4,659,325, 4-21-87, Cl. 494-20.000.

Cole, R. Clay; and Bowles, Bobby K., to Halliburton Company. Sealant composition. 4,690,961, 9-1-87, Cl. 523-440.000.

Cole, Rex W. Method and apparatus for testing the power of a lens. 4,639,133, 1-27-87, Cl. 356-125.000.

Cole, Richard D. Method of making an insulated window space assembly. 4,683,634, 8-4-87, Cl. 29-412.000.

Cole, Robert: *See—*

Cashaw, Alan G.; Cole, Robert; Holmes, Rory; Whitaker, Herbert L., Jr.; and Jackson, Lauren, 4,705,712, Cl. 428-152.000.

Cole, Robert W.: *See—*

Pilkington, Mervin V.; Cole, Robert W.; and Schisler, Robert C., 4,633,912, Cl. 138-132.000.

Cole, Ronald A.: *See—*

Rusconi, John B.; and Cole, Ronald A., 4,648,338, Cl. 112-180.000.

Cole, Ronald E., to Emhart Industries, Inc. Ice maker system. 4,697,432, 10-6-87, Cl. 62-233.000.

Cole, Sheila N. Curl keeping hair cap. 4,683,596, 8-4-87, Cl. 2-174.000.

Cole, Stephen C., to Ancra Corporation. Pallet restraint mechanism for cargo loading system. 4,696,609, 9-29-87, Cl. 410-69.000.

Cole, Stephen G.: *See—*

Hofmann, Alan F.; and Cole, Stephen G., 4,676,974, Cl. 424-9.000.

Cole, Steven W.: *See—*

Bakas, Steve T.; and Cole, Steven W., 4,665,272, Cl. 585-739.000.

Cole, T. Phillip, Jr., to United States Steel Corporation. Pressurized gaseous aqueous ammonia separation system. 4,650,502, 3-17-87, Cl. 55-70.000.

Cole, William B.: *See—*

Divens, William G.; Cole, William B.; Leitner, Michael W.; and Blau, David A., 4,656,358, Cl. 250-372.000.

Cole, William C.: *See—*

Meares, Claude F.; DeNardo, Sally J.; Cole, William C.; and Mol, Min K., 4,678,667, Cl. 424-85.000.

Cole, William M.; Dembek, Joseph A., Jr.; and Sagar, Vispi R., to Firestone Tire & Rubber Company, The. Curable poly(aryloxyphosphazene) copolymers. 4,665,152, 5-12-87, Cl. 528-168.000.

Cole, William M.; Fenske, Steven L.; Serbin, David J.; Malani, Shrikant R.; Clark, Frank J.; and Beattie, Joanne L., to Firestone Tire & Rubber Company, The. Use of rubber solvent-resin solvent and miscella mixtures for extraction-expression of rubber and resins from guayule shrub. 4,681,929, 7-21-87, Cl. 528-493.000.

Cole, Willis S.: *See—*

Lee, James, 4,638,864, Cl. 181-141.000.

Colebrand Limited: *See—*

Daley, Edward, 4,641,601, Cl. 118-305.000.

Coleby, Stanley E.; and Forster, Michael H., to Hewlett-Packard Company. Computer-aided design of systems. 4,635,208, 1-6-87, Cl. 364-491.000.

Coleco Industries, Inc.: *See—*

Amici, Francis R.; and Mercurio, Domenic G., 4,669,998, Cl. 446-383.000.

Bovi, Robert D.; and Farrington, Richard I., 4,674,989, Cl. 446-336.000.

Bromley, Eric; and Sustare, Beverly D., 4,672,541, Cl. 364-410.000.

Droller, Richard; and Fontaine, Brian, 4,666,419, Cl. 446-330.000.

Droller, Richard; and Farrington, Richard I., 4,682,968, Cl. 446-268.000.

Droller, Richard; and Fontaine, Brian, 4,689,033, Cl. 446-183.000.

Dubois, Craig; and Fontaine, Brian, 4,682,970, Cl. 446-309.000.

Dubois, Craig; and Mercurio, Dominic G., 4,689,034, Cl. 446-309.000.

Farrington, Richard I.; and Lawrence, Jeffrey W., 4,654,018, Cl. 446-38.000.

Goldberg, Benjamin L.; and Mercurio, Dominic G., 4,708,687, Cl. 446-269.000.

Colegate, Gilbert W. P.: *See—*

Gunn, Duncan A.; Crownshaw, John C.; Davis, Arthur A.; and Colegate, Gilbert W. P., 4,678,270, Cl. 350-96.200.

Colegrove, Forrest D.: *See—*

Rice, Joseph A., Jr.; McGregor, Douglas D.; Colegrove, Forrest D.; and Marton, Bela, 4,697,519, Cl. 102-406.000.

Colegrove, George T.; and Clare, Kenneth, to Merck & Co., Inc. Quaternary ammonium salts of anionic gums. 4,696,677, 9-29-87, Cl. 44-51.000.

Colegrove, Russell K.; and Stone, William M., to Leybold-Heraeus GmbH. Electron beam welding apparatus. 4,677,273, 6-30-87, Cl. 219-121.0EC.

Colegrove, Russell K.; and Lawrence, Glen S., to Leybold-Heraeus GmbH. Electron-beam welding apparatus. 4,687,902, 8-18-87, Cl. 219-121.0ET.

Coleman, Albert L.: *See—*

Wesner, Charles R.; Yancey, John F.; and Coleman, Albert L., 4,692,868, Cl. 364-447.000.

Coleman, Ann C.; and Garza, Irene E., to Texaco Corporation. Visor and assembly method for visor. 4,686,713, 8-18-87, Cl. 2-12.000.

Coleman, Anthony R.: *See—*

Perry, Edward J.; and Coleman, Anthony R., 4,699,642, Cl. 62-541.000.

Coleman, Clyde F., to RCA Corporation. Television receiver having multi-purpose chassis frame. 4,644,408, 2-17-87, Cl. 358-254.000.

Coleman, Colin R.: *See—*

Haftke, Jozef J.; Worley, Norman G.; Coleman, Colin R.; and Warris, Anne-Marie, 4,635,567, Cl. 110-188.000.

Coleman Company, Inc., The: *See—*

Lucius, John H., 4,655,718, Cl. 441-106.000.

Madison, George B., 4,660,498, Cl. 114-347.000.

Nedoluha, Heinz F., 4,681,052, Cl. 114-98.000.

Nedoluha, Heinz F., 4,696,248, Cl. 114-39.000.

Schmidt, Frank T., 4,691,136, Cl. 310-339.000.

Stearns, David; Sum, Leung C.; and Henegar, Jacob, 4,663,697, Cl. 362-184.000.

Zwick, David J., 4,682,618, Cl. 135-89.000.

Coleman, Darrel F.; Kalin, Horst W.; and Verhaagen, Donald R., to Dieterich Standard Corp. High pressure mounting with positive lock. 4,645,242, 2-24-87, Cl. 285-158.000.

Coleman, Douglas L.; and Applezweig, Norman, to Jackson Lab.; and Progenics, Inc. Treatment of obesity, diabetes and other symptoms of hypercorticoidism using etiocholanolones. 4,666,898, 5-19-87, Cl. 514-177.000.

Coleman, Edward C.; Wagner, Jeffrey D.; Ballard, Donna J.; Stone, Catharine E.; Swallow, Nancy A.; and Carey, Nancy L., to General Foods Corporation. Coating composition for microwave cooking. 4,640,837, 2-3-87, Cl. 426-94.000.

Coleman, Edward R. Valve manifold. 4,711,268, 12-8-87, Cl. 137-597.000.

Coleman, Ernest W., to Ernco Industries, Inc. Storm warning method and apparatus. 4,672,305, 6-9-87, Cl. 324-72.000.

Coleman, G. A. John, to Universal Leaf Tobacco Company, Incorporated. High-pressure water-jet stripping of tobacco. 4,640,300, 2-3-87, Cl. 131-318.000.

Coleman, Hollis: *See—*

Miller, Arthur O.; Coleman, Hollis; Atkinson, Roger; and Dorsey, Boyd, 4,685,127, Cl. 379-221.000.

Coleman, James A., to Xerox Corporation. Power supply for ac corotrons. 4,714,978, 12-22-87, Cl. 361-235.000.

Coleman, James C.: *See—*

Harris, Charles F., Jr.; and Coleman, James C., 4,712,341, Cl. 52-208.000.

Coleman, James P., to Monsanto Company. Polymeric alkylene diphosphonate anhydrides, their production and use. 4,663,432, 5-5-87, Cl. 528-398.000.

Coleman, James P.; Hallcher, Richard C.; and McMackins, Dudley E., to Monsanto Company. Acyloxyalkenoic acids and process therefor. 4,672,140, 6-9-87, Cl. 560-262.000.

Coleman, James P.; Kvakovszky, George; and Sikora, David J., to Monsanto Company. Inhibition of calcium phosphate scale formation with a maleate polymer. 4,673,508, 6-16-87, Cl. 210-698.000.

Coleman, John C., to Horticultural Printers, Inc. Plant tag. 4,689,100, 8-25-87, Cl. 156-73.100.

Coleman, John D., to Commonwealth Scientific and Industrial Research Organization. Method and apparatus for use in producing reconsolidated wood products. 4,711,684, 12-8-87, Cl. 156-196.000.

Coleman, John D., to Commonwealth Scientific and Industrial Research Organization. Process for reconsolidated wood production. 4,711,689, 12-8-87, Cl. 156-257.000.

Coleman, John R., to General Motors Corporation. Master cylinder with reservoir mounting arrangement. 4,694,652, 9-22-87, Cl. 60-585.000.

Coleman, John S.: *See—*

Snipes, Carl E.; and Coleman, John S., 4,696,817, Cl. 424-123.000.

Coleman, Kevin G.: *See—*

Lipscher, Bernard N.; and Coleman, Kevin G., 4,715,060, Cl. 379-70.000.

Coleman, Leonard J.: *See—*

Hardie, Laurie S.; and Coleman, Leonard J., 4,712,538, Cl. 128-24.100.

Coleman, Leslie S.: *See—*

Brelsford, David P.; Cerutti, Daniel D.; Coleman, Leslie S.; Davison, Gerald A.; Dewey, Pamela H.; Enichen, Margaret C.; Hartley, Sarah T.; Malinowski, Paul A.; Rogers, Roger W.; Tallman, Peter H.; and Wilczak, Lynn A., 4,674,038, Cl. 364-200.000.

Coleman, Mary T.; and Tasbas, Hedy E. Lubricated tampon inserter. 4,690,671, 9-1-87, Cl. 604-12.000.

Coleman, Mike R.: *See—*

Cleary, Edward J., Jr.; and Coleman, Mike R., 4,686,390, Cl. 307-351.000.

Coleman, Nathan L.: *See—*

Fiddler, R. Charles; and Coleman, Nathan L., 4,662,270, Cl. 98-82.000.

Coleman, Richard A.: *See—*

Kilbane, Farrell M.; Coleman, Richard A.; Dunbar, Frank C.; and Gibson, Alan F., 4,675,214, Cl. 427-320.000.

Coleman, Richard D.: *See—*

Capes, Charles E.; Coleman, Richard D.; Thayer, William L.; and Puddington, Ira E., 4,648,962, Cl. 208-188.000.

Coleman, Richard K., to Exxon Production Research Co. Method and apparatus for erecting offshore platforms. 4,648,751, 3-10-87, Cl. 405-209.000.

Coleman, Robert L.: *See—*

Young, Chung C.; Coleman, Robert L.; Sullivan, Sheila M.; Grimes, John F.; Baumeister, Ferdnand; MacIndoe, Robert; Catalano, Lou; Coppola, Pat; Spaziani, Fred; Rodomista, Guy; and Fowler, James E., 4,686,479, Cl. 324-439.000.

Coleman, Samuel E.: *See—*

Bruckdorfer, Roderick A.; and Coleman, Samuel E., 4,635,724, Cl. 166-268.000.

Coleman, Thomas A. Shoulder brace. 4,644,939, 2-24-87, Cl. 128-78.000.

Coleman, William G., Jr.: *See—*

Seto, Belinda P.; Coleman, William G., Jr.; and Gerety, Robert J., 4,707,439, Cl. 435-5.000.

eman. William M., III; Schmidt, Gregory F.; Campbell, Richard E., r.; and Delaney, Mark S., to Dow Chemical Company, The. Hetero- eneous organometallic catalysts containing a supported titanium ompound and at least one other supported organometallic com- ound. 4,659,685, 4-21-87, Cl. 502-113.000.

es, Bryan W., to Subsea Engineering Associates, Inc. Turbid media iewing system. 4,707,128, 11-17-87, Cl. 356-4.000.

es, Donald K. Electronic musical instrument. 4,640,173, 2-3-87, Cl. 4-1.010.

es, Harry J.; and Simon, Richard, to Victoria University of Man- hester, The. Liquid crystal information storage device. 4,702,558, 0-27-87, Cl. 350-330.000.

es, Julian M.: *See—*

Wood, John D.; Coles, Julian M.; and Baxter, William R. S., 4,676,237, Cl. 128-203.170.

es, Peter R.; and Costello, Stephen G., to Taubmans Industries imited. Color selection apparatus. 4,665,394, 5-12-87, Cl. 0-815.100.

scott, Robert L.: *See—*

Orlowski, Ronald C.; Stahl, Glenn L.; and Colescott, Robert L., 4,639,509, Cl. 530-307.000.

Orlowski, Ronald C.; Seyler, Jay K.; Colescott, Robert L.; Stahl, Glenn L.; Enkoji, Takashi; Geever, James E.; and Flanigan Everett, 4,659,804, Cl. 530-307.000.

etta, Timothy C. Carburetion device for internal combustion en- nes. 4,671,899, 6-9-87, Cl. 261-63.000.

etti, Don A. Apparatus and method for propelling an object. 679,799, 7-14-87, Cl. 273-318.000.

gate: *See—*

Ouhadi, Trazollah; Broze, Guy; Dehan, Louis; and van de Gaer, Daniel, 4,661,280, Cl. 252-99.000.

gate, Gilbert, Jr., to United States Banknote Company L.P. Security pe with integrated hologram and magnetic strip. 4,684,795, 8-4-87, . 235-457.000.

gate-Palmolive Company: *See—*

Bakar, Shamsul, 4,666,517, Cl. 106-35.000.

Barone, Patrizia; and Ramachandran, Pallassana N., 4,705,644, Cl. 252-135.000.

Barth, Jordan; and Norfleet, James, 4,663,152, Cl. 424-49.000.

Broze, Guy; and Delvenne, Jean-Paul, 4,648,983, Cl. 252-135.000.

Broze, Guy; Bastin, Danielle; Laitem, Leo; and Ouhadi, Trazollah, 4,655,954, Cl. 252-102.000.

Clipper, Donald; and Norfleet, James, 4,684,517, Cl. 424-52.000.

Coates, John, 4,704,107, Cl. 604-357.000.

Crossin, Michael C., 4,661,287, Cl. 252-542.000.

Crossin, Michael C., 4,715,990, Cl. 252-551.000.

Cseh, Edomer G., 4,676,978, Cl. 424-70.000.

Enlli, Rita; and Mondin, Myriam, 4,671,895, Cl. 252-552.000.

Ferlauto, Robert J., Jr.; and Yuhasz, Kathleen M., 4,701,318, Cl. 424-52.000.

Fishman, Steven, 4,673,106, Cl. 222-80.000.

Grandmaire, Jean-Paul; and Jacques, Alain, 4,661,270, Cl. 252-8.750.

Gray, Frederick W., 4,664,837, Cl. 252-99.000.

Hayes, Harry, 4,659,504, Cl. 252-315.300.

Inamorato, Jack T.; and Crossin, Michael C., 4,652,394, Cl. 252-174.120.

Inamorato, Jack T.; and Crossin, Michael C., 4,670,179, Cl. 252-174.000.

Karami, Hamzeh, 4,643,728, Cl. 604-385.00A.

Marschner, Frank W., 4,664,909, Cl. 424-65.000.

Mitchell, Robert L.; and Kiernan, Michael A., 4,702,905, Cl. 424-57.000.

Niles, Hollandra P.; Herles, Susan; Shymon, Stephen; and Gaffar, Abdul, 4,689,214, Cl. 424-49.000.

Ouhadi, Trazollah; Dehan, Louis; and Fellen, Lucie, 4,647,393, Cl. 252-102.000.

Ouhadi, Trazollah; and Dehan, Louis, 4,690,771, Cl. 252-102.000.

Parfomak, Eva H.; and Uchiyama, Winston S., 4,678,594, Cl. 252-186.310.

Parr, Richard S.; Ramachandran, Pallassana N.; Grey, Seymour; and Reinish, Martin D., 4,699,729, Cl. 252-174.250.

Piechota, Stanley E., Jr., 4,647,451, Cl. 424-52.000.

Ramachandran, Pallassana N.; and Barone, Patrizia, 4,707,289, Cl. 252-135.000.

Rothanavibhata, Adam A.; and Payne, Richard K., 4,715,969, Cl. 252-8.700.

Schelm, Sandra L., 4,716,034, Cl. 424-49.000.

Schelm, Sandra L., 4,716,036, Cl. 424-57.000.

Silvis, Salvatore J., 4,668,398, Cl. 210-634.000.

Sonenstein, Gerard G., 4,692,494, Cl. 525-57.000.

Steltenkamp, Robert J.; and Camara, Michael A., 4,676,915, Cl. 252-8.800.

Steltenkamp, Robert J.; and Camara, Michael A., 4,682,982, Cl. 8-137.000.

Steltenkamp, Robert J.; and Camara, Michael A., 4,714,559, Cl. 252-8.800.

Steltenkamp, Robert J.; and Camara, Michael A., 4,715,862, Cl. 8-137.000.

Steltenkamp, Robert J.; and Camara, Michael A., 4,715,970, Cl. 252-8.800.

Straw, Alan; and Shields, Stewart, 4,695,451, Cl. 424-47.000.

Tavss, Edward A.; Santalucia, John; and Carroll, David L., 4,693,395, Cl. 222-107.000.

Tavss, Edward A.; Temin, Samuel; Santalucia, John; and Carroll, Davis L., 4,693,396, Cl. 222-107.000.

Vellekoop, Linda J., 4,705,680, Cl. 424-55.000.

Wixon, Harold E., 4,663,194, Cl. 427-214.000.

Wixon, Harold E., 4,664,817, Cl. 252-8.800.

Wixon, Harold E., 4,664,950, Cl. 427-214.000.

Wixon, Harold E., 4,666,738, Cl. 427-214.000.

Wixon, Harold E., 4,666,740, Cl. 427-214.000.

Colgate, Stirling A., to Colgate Thermodynamics Co. Adiabatic positive displacement machinery. 4,663,938, 5-12-87, Cl. 60-620.000.

Colgate, Stirling A.; and Roos, George E. Fast burning propellants. 4,681,643, 7-21-87, Cl. 149-21.000.

Colgate Thermodynamics Co.: *See—*

Colgate, Stirling A., 4,663,938, Cl. 60-620.000.

Coli, Giuseppe, to Ing. C. Olivetti & C., S.p.A. Arrangement for guiding and shifting a carriage of an office machine. 4,651,229, 3-17-87, Cl. 358-285.000.

Coli, Giuseppe: *See—*

Carena, Ugo; Coli, Giuseppe; and Fogaroli, Giuseppe, 4,683,501, Cl. 358-293.000.

Knirsch, Franco; and Coli, Giuseppe, 4,651,198, Cl. 358-75.000.

Colight, a division of Canrad-Hanovia, Inc.: *See—*

Erdman, Rodney V., 4,677,303, Cl. 250-561.000.

Colight, Inc.: *See—*

Ross, Malcolm G.; May, Joe T.; and Hale, Steven D., 4,644,165, Cl. 250-372.000.

Colignon, Dietmar: *See—*

Piorr, Robert; Panthel, Guenter; Schmid, Karl H.; Colignon, Dietmar; Rommerskirchen, Hans J.; Schmidt, Wolfgang; and Ritterbex, Horst, 4,695,409, Cl. 260-400.000.

Colimitra, Thomas A., to Westinghouse Electric Corp. Hand gear train with three degrees of freedom. 4,683,772, 8-4-87, Cl. 74-479.000.

Colin, David, to Amersham International plc. Standard for analysis. 4,715,988, 12-29-87, Cl. 252-408.100.

Colin, Dennis P., to Varian Associates, Inc. Full wave, self-detecting differential logarithmic rf amplifier. 4,716,316, 12-29-87, Cl. 307-492.000.

Colin, George M.; and Hunter, Edwin J., to Odyssey Systems Limited. Hydraulic power attenuator. 4,675,922, 6-30-87, Cl. 4-502.000.

Colin, Laurence, to Cem Tech Laboratories Inc. Cementatious admixtures and method. 4,666,521, 5-19-87, Cl. 106-97.000.

Colin, Michel: *See—*

Shroot, Braham; Lang, Gerard; Maignan, Jean; and Colin, Michel, 4,654,354, Cl. 514-372.000.

Colin, Yves; Rosse, Gabriel; Guyader, Jean; and Laurent, Yves, to Centre National de la Recherche Scientifique; and Universite de Rennes I. Nitrides and oxynitrides which can be used as selective detectors of reducing gases in the atmosphere, and detection device containing them. 4,695,432, 9-22-87, Cl. 422-98.000.

Colineau, Joseph; and Ahmari, Hossein, to Societe Electronique de la Region Pays de Loire. Geometry adjustment circuit for a color video projector producing vertical amplitude, vertical linearity and horizontal trapezoid correction signals from a single user-controlled signal. 4,706,115, 11-10-87, Cl. 358-60.000.

Colite Industries, Inc.: *See—*

Witt, Frank A., 4,714,581, Cl. 264-553.000.

Coll, Gene P.; and Leonardo, Ignazio, to Coastal Engineered Products Company, Inc. Buried-cable junction enclosure with cable-storage vault. 4,709,980, 12-1-87, Cl. 350-96.200.

Collaborative Research, Inc.: *See—*

Alford, Bernadette L.; Mao, Jen-I; Moir, Donald T.; Taunton-Rigby, Alison; and Vovis, Gerald F., 4,666,847, Cl. 435-253.000.

Botstein, David; Davis, Ronald W.; Fink, Gerald R.; Taunton-Rigby, Alison; Knowlton, Robert G.; Mao, Jen-i; Moir, Donald T.; and Goff, Christopher G., 4,661,454, Cl. 435-256.000.

Botstein, David; Fink, Gerald R.; and Davis, Ronald W., 4,695,470, Cl. 426-37.000.

Collagen Corporation: *See—*

Braun, William G.; Palin, Philip R.; Von Moll, Brent L.; and Lai, Tony F. L., 4,671,794, Cl. 604-240.000.

Chu, George, 4,655,980, Cl. 264-102.000.

Chu, George, 4,689,399, Cl. 530-356.000.

Nguyen, Hoc M.; and Chu, George H., 4,642,117, Cl. 623-11.000.

Palin, Philip R.; and Watts, Bruce N., 4,699,186, Cl. 141-2.000.

Collar, Geoffrey A.; Moss, John S.; Chu, Pak-Jong; McDonald, Paul D.; and Voss, Brian E., to Northern Telecom Limited. Circuit board with contact positions, as used for telecommunications terminals and other apparatus. 4,647,729, 3-3-87, Cl. 200-5.00A.

Collar, Geoffrey A.: *See—*

Langenberg, Anthony J.; Chu, Pak-Jong; Moss, John S.; and Collar, Geoffrey A., 4,709,389, Cl. 379-424.000.

Collard, Arthur D.: *See—*

Priebe, Gordon W.; and Collard, Arthur D., 4,648,105, Cl. 377-64.000.

Collart, Andre ; and Declerck, Fredy, to Solvay & Cie (Societe Anonyme). Oxymethylene copolymers and process for their preparation. 4,691,000, 9-1-87, Cl. 528-244.000.

Collart, Jean-Claude: *See—*

Chassaing, Claude; Collart, Jean-Claude; and Lubert, Yves, 4,659,137, Cl. 296-190.000.

Collart, Johannes A., to P. J. Zweegers en Zonen, B.V. Mowing device. 4,709,540, 12-1-87, Cl. 56-13.600.

Collas, James P.: *See—*

Clowes, Garth A.; and Collas, James P., 4,644,107, Cl. 379-354.000.

Colle, Edward A., Jr.; Yates, Donald N., Jr.; and Brieger, Emmet F., to Halliburton Company. Sidewall core gun. 4,702,168, 10-27-87, Cl. 102-313.000.

Colle, Edward A., Jr.: *See—*
Vann, Roy R.; Brieger, Emmet F.; George, Flint R.; Colle, Edward A., Jr.; and Jones, Hilton B., 4,635,733, Cl. 175-4.560.

Colle, Roberto; Camaggi, Giovanni; Gozzo, Franco; Visentin, Walter; and Mirenna, Luigi, to Montedison S.p.A. Triazolyl-keto-derivatives endowed with a fungicidal activity. 4,704,398, 11-3-87, Cl. 514-383.000.

Collec, Jean P.; and Rigal, Michel R., to Etablissement Public de Diffusion Dit "Telediffusion de France" . System for broadcasting data packets originating from different sources. 4,667,334, 5-19-87, Cl. 375-116.000.

Collector's Armoury, Inc., The: *See—*
Kobayashi, Tazo, 4,652,740, Cl. 250-215.000.

College, Neil F.: *See—*
Adlon, Daniel T.; Bianchi, Edward A.; College, Neil F.; and Reuss, George D., 4,650,391, Cl. 414-222.000.

Collegeville Flag & Manufacturing Co.: *See—*
Hakun, Robert; and Huling, Clarence W., 4,653,642, Cl. 206-486.000.

Colleluori, Roberto: *See—*
Bianco, Carlo; Colleluori, Roberto; and De Sanctis, Egidio, 4,673,136, Cl. 241-280.000.

Collender, Robert B. Stereoscopic pictures using astigmatic low f-number projection lenses-method and apparatus. 4,676,613, 6-30-87, Cl. 352-58.000.

Collens, Richard. Medical reminder device. 4,669,613, 6-2-87, Cl. 206-534.000.

Coller, Dana L.: *See—*
Wilson, James M.; Coller, Dana L.; and Venkataramani, Subramaniam, 4,670,243, Cl. 423-598.000.

Coller, James R.; Coon, Paul A.; and Goodman, Joseph R., to AMP Incorporated. Dual in-line package carrier assembly. 4,637,670, 1-20-87, Cl. 339-46.000.

Coller, James R.; and Macioce, Lawrence, to AMP Incorporated. Resilient beam electrical terminal. 4,662,694, 5-5-87, Cl. 339-275.00T.

Coller, James R.; and Goodman, Joseph R., to AMP Incorporated. Socket for stacking integrated circuit packages. 4,696,525, 9-29-87, Cl. 439-69.000.

Colleran, Stephen A.; and Lenz, William R., to Molex Incorporated. Modular staggered multi-row electrical connector. 4,693,532, 9-15-87, Cl. 439-594.000.

Colleran, Stephen A.; and Doles, Connie, to Molex Incorporated. Insulation displacement terminal. 4,693,536, 9-15-87, Cl. 439-404.000.

Colleran, Steve: *See—*
Wilson, Bill B.; and Colleran, Steve, 4,653,831, Cl. 339-98.000.

Colles, Joseph H., to Brooktree Corporation. Regulated current supply. 4,638,241, 1-20-87, Cl. 323-312.000.

Collet, James R. Sleeve-type security device. 4,655,058, 4-7-87, Cl. 70-178.000.

Collett, C. William, to Nationwide Glove Co. Inc. Electrically nonconductive, abrasion and cut resistant yarn. 4,651,514, 3-24-87, Cl. 57-227.000.

Collett, Marc S.: *See—*
Kempe, Tomas; Purchio, Anthony F.; Collett, Marc S.; and DeLorbe, William J., 4,661,450, Cl. 435-172.300.

Collette, Robert J.: *See—*
Santalla, Richard W.; Kokkinos, Angelos; Collette, Robert J.; and McCartney, Michael S., 4,672,900, Cl. 110-264.000.

Collette, Ronald J.: *See—*
Bregman, Arie P.; Collette, Ronald J.; and Currier, Edward J., 4,645,180, Cl. 251-360.000.

Collette, Wayne N., to Continental Pet Technologies, Inc. Preform for use in blow molding a container subjected to hot filling and closed by a rotatable closure, and method of an apparatus for making the same. 4,649,068, 3-10-87, Cl. 428-35.000.

Collette, Wayne N.: *See—*
Kerins, Gerard J.; Collette, Wayne N.; Beck, Martin H.; Clark, Richard E.; Harry, Ieuan L.; Krishnakumar, Suppayan: Miller, Bryan H.; Nichols, Richard C.; Piccioli, David; Tacito, Louis D.; and Worsowicz, Eileene M., 4,665,682, Cl. 53-452.000.

Collier, Barry L., to Uniroyal Goodrich Tire Company, The. Reduced flash molding apparatus. 4,655,699, 4-7-87, Cl. 425-28.00R.

Collier, Barry L., to Uniroyal Goodrich Tire Company, The. Reduced flash molding. 4,668,456, 5-26-87, Cl. 264-161.000.

Collier, Charles P. Matting lacquer, paint and light-transmitting matte film. 4,684,675, 8-4-87, Cl. 523-220.000.

Collier, David L., to Collier Products, Inc. Multiple compartment structure. 4,651,675, 3-24-87, Cl. 119-1.000.

Collier, David W., to Eclipse, Inc. Burner assembly for radiant tube heating system. 4,673,350, 6-16-87, Cl. 431-353.000.

Collier, David W., to Eclipse, Inc. Recuperative radiant tube heating system. 4,705,022, 11-10-87, Cl. 126-91.00A.

Collier, Donald W.; and Fuller, Kip L., to Guardian Interlock Systems, Inc. Sobriety interlock with time-locked interlock mode. 4,697,666, 10-6-87, Cl. 180-272.000.

Collier, John C., to Burndy Corporation. Electrical connector. 4,659,168, 4-21-87, Cl. 339-191.00M.

Collier, John C.; and Davies, Keith, to BICC Public Limited Company. Circuit board connector. 4,715,826, 12-29-87, Cl. 439-438.000.

Collier, John D.; and Scheeler, James W. Process for making wire mesh screens. 4,686,342, 8-11-87, Cl. 219-58.000.

Collier, John R., to Ohio University. Sheath core composite extrusion and a method of making it by melt transformation coextrusion. 4,680,156, 7-14-87, Cl. 264-171.000.

Collier, L. Warren, IV: *See—*
Taylor, Jack D.; and Collier, L. Warren, IV, 4,692,368, C
428-137.000.

Collier Products, Inc.: *See—*
Collier, David L., 4,651,675, Cl. 119-1.000.

Collier, R. John; and Carroll, Stephen F., to President and Fellows o
Harvard College. Modified toxic vaccines. 4,709,017, 11-24-87, C
530-350.000.

Collier, Richard J.: *See—*
Griffin, Eric J.; Collier, Richard J., and Hjipieris, Georg
4,641,082, Cl. 324-58.00B.

Collier, Ronald T.; and Thompson, Robert E., to Cardinal Industrie
Inc. Apparatus for scoring and cutting wallboard and the lik
4,694,722, 9-22-87, Cl. 83-885.000.

Colligon, John S.; Hill, Arthur E.; and Kheyrandish, Hamid, to Univer
sity of Salford. Apparatus for and a method of modifying the proper
ties of a material. 4,652,357, 3-24-87, Cl. 204-298.000.

Collin, Andre; and Wautier, Henri, to Solvay & Cie (Societe An
nyme). Phosphobrominated polyetherpolyols and processes for pro
duction thereof. 4,697,029, 9-29-87, Cl. 558-92.000.

Collin, Andre, to Solvay & Cie (Societe Anonyme). Brominated polye
therpolyols, process for their preparation and the use of brominate
polyetherpolyols in the manufacture of rigid polyurethane foam
4,714,720, 12-22-87, Cl. 521-171.000.

Collin, William D., to Huddy Diamond Crown Setting Compan
(Proprietary) Limited. Cutter inserts for picks. 4,678,237, 7-7-87, C
299-79.000.

Collings, Neil: *See—*
Crossland, William A.; Ross, Peter W.; and Collings, Ne
4,653,857, Cl. 350-320.000.

Collins & Aikman Corporation: *See—*
Barwick, Frederick E., III; and Pearce, Kyle R., 4,661,116, C
8-532.000.
Conley, Kenneth E.; and Stull, Thomas E., 4,656,074, C
428-95.000.
Harrison, John M., 4,661,689, Cl. 219-528.000.
Huxoll, Dieter, 4,657,558, Cl. 8-603.000.
Jenkins, Evans M., 4,699,625, Cl. 8-532.000.
McCullough, Robert W.; Peoples, Clarence A.; Sacks, Maurice J
Adams, Ronald L.; Kapfer, Klaus; and Talbott, Graham M
4,663,103, Cl. 264-40.400.
Moore, Lawrence C.; Hibdon, Freddy M.; Howell, James M.; an
Blalock, James E., 4,688,499, Cl. 112-121.120.
Reynolds, David P.; Shepard, John D.; and Stone, Samuel L., J
4,673,207, Cl. 296-39.00R.
Scott, Eddie W., 4,668,552, Cl. 428-92.000.
Scott, Eddie W.; and Sweezy, Nelson E., 4,668,553, Cl. 428-92.00

Collins, Arthur A., to Arthur A. Collins, Inc. Dynamically reconfigura
ble time-space-time digital switch and network. 4,701,907, 10-20-8
Cl. 370-63.000.

Collins, Arthur K.; Pelc, Norbert J.; and Wallenslager, Susan T., t
General Electric Company. Altering spatial characteristics of
digital image. 4,653,013, 3-24-87, Cl. 364-518.000.

Collins, Arville J.: *See—*
Clarke, Alvin W.; and Collins, Arville J., 4,674,293, Cl. 62-240.00

Collins, Bobby W. Ratcheting box wrench. 4,669,338, 6-2-87, C
81-57.390.

Collins, Christine G.; Pankey, Susan; and Jaklitsch, Anna, to Synte
(U.S.A.) Inc. Serum pretreatment for tricyclic antidepressant dru
assays. 4,652,529, 3-24-87, Cl. 436-92.000.

Collins, Daniel R.: *See—*
Egner, Walter A.; and Collins, Daniel R., 4,684,161, Cl. 294-1.10

Collins, David A.; and Lile, Derek L., to United States of America
Navy. Generation of ohmic contacts on indium phosphide. 4,662,06
5-5-87, Cl. 29-584.000.

Collins, David W.; and Weed, Michael A., to International Busine
Machines Corporation. Phase difference demodulator. 4,642,56
2-10-87, Cl. 324-83.00D.

Collins, Donald E., to Carters (J & A) Limited. Improvements in o
relating to aids for the disabled. 4,664,441, 5-12-87, Cl. 297-183.00

Collins, Floyd K.; and Say, Donald L., to North American Philip
Consumer Electronics Corp. Beam shaping CRT electrode an
method of fabricating same. 4,645,469, 2-24-87, Cl. 445-49.000.

Collins, Floyd K.; and Hassler, George E., to North American Philip
Consumer Electronics Corp. Strengthening means for a CRT in-lin
electrode component. 4,680,501, 7-14-87, Cl. 313-456.000.

Collins, Francis: *See—*
Weissman, Sherman M.; and Collins, Francis, 4,710,465, C
435-91.000.

Collins, Frederick H.: *See—*
Pontiff, Thomas M.; and Collins, Frederick H., 4,702,868, C
264-50.000.

Collins, Galen, to Benson, Inc. Composite video synchronization puls
separator for color image processor. 4,672,450, 6-9-87, C
358-153.000.

Collins, Galen: *See—*
Deering, Michael F.; and Collins, Galen, 4,680,626, Cl. 358-80.00

Collins, Galen R.; and Garcia, Alberto G., to Fuji Photo Film Co., Lt
Video compression system. 4,675,750, 6-23-87, Cl. 360-9.100.

Collins, Geoff; and Juurmaa, Kimmo, to Oy Wartsila AB. Arrangemen
in vessels. 4,648,342, 3-10-87, Cl. 114-40.000.

Collins, George: *See—*
Weiselfish, Jacob; and Collins, George, 4,700,633, Cl. 104-102.00

Collins, George J.; Rocca, Jorge J.; and Meyer, Jack D., to Applie
Electron Corp. D.C. electron beam method and apparatus for conti
uous laser excitation. 4,641,316, 2-3-87, Cl. 372-74.000.

ins, George J.; and Metz, Werner A., Jr., to NCR Corporation.
ethod for forming channel stops in vertical semiconductor surfaces.
66,557, 5-19-87, Cl. 156-643.000.
ins, George J.: *See—*
Bell, William E.; and Collins, George J., 4,680,770, Cl. 372-99.000.
ins, George L.; Zema, Paul; and Rashada, Yusuf A., to Celanese
rporation. Novel elastomer/oxymethylene polymer blends con-
ning polymeric compatibilizing agents. 4,652,613, 3-24-87, Cl.
5-69.000.
ns, Harold O. Support device. 4,645,161, 2-24-87, Cl. 248-439.000.
ns, Harvey T. Topical preparation and method for treating Herpes
nplex virus infection. 4,657,933, 4-14-87, Cl. 514-722.000.
ns, Harvey T. Method for treating Herpes simplex virus infection
d topical preparation used therein. 4,657,934, 4-14-87, Cl.
4-722.000.
ns, Henry R., Jr. Self-cleaning filter system. 4,693,815, 9-15-87, Cl.
0-107.000.
ns, Hugh: *See—*
Zollinger, Wendell D.; Boslego, John; Moran, Ellen; Brandt, Brenda; Collins, Hugh; Mandrell, Robert; Altieri, Patricia; and Berman, Sanford, 4,707,543, Cl. 530-402.000.
ns, Ian P.; and Revell, William J., to Warner Lambert Technolo-
es, Inc. Vertebra for articulatable shaft. 4,651,718, 3-24-87, Cl.
8-4.000.
ns, Ian P.; and Revell, William J., to Warner Lambert Technolo-
es, Inc. Endoscope. 4,685,450, 8-11-87, Cl. 128-4.000.
ns, Jerome H.; Mackey, Larry N.; and Spadini, Gianfranco L., to
octer & Gamble Company, The. Detergency builder system.
87,592, 8-18-87, Cl. 252-99.000.
ns, Jerome H.; Mackey, Larry N.; and Spadini, Gianfranco L., to
octer & Gamble Company, The. Detergency builder system.
89,167, 8-25-87, Cl. 252-95.000.
ns, John. Apparatus for holding disposable bags. 4,695,020,
22-87, Cl. 248-100.000.
ns, John B.; and Kisslak, George E., to Perkin-Elmer Corporation,
e. Optimization apparatus and procedure. 4,689,754, 8-25-87, Cl.
4-497.000.
ns, John L.: *See—*
Young, Hartley F.; and Collins, John L., 4,688,719, Cl. 238-351.000.
ns, John M.: *See—*
Duncan, L. Scot; Groth, Hugh F.; and Collins, John M., 4,712,740, Cl. 239-340.000.
Hampshire, James F.; Groth, Hugh F.; and Collins, John M., 4,637,322, Cl. 108-102.000.
ins, Johnny; Cooper, Michael H.; Dowden, Douglas C.; Gill,
aymond J.; and Zola, Meyer J., to AT&T Bell Laboratories. Opera-
r communication arrangements for operator assistance systems.
656,624, 4-7-87, Cl. 370-60.000.
ins, Kent L.: *See—*
Dunn, John P.; Collins, Kent L.; and King, Norman R., 4,708,679, Cl. 445-26.000.
ins, Malcolm G., to Metal Box p.l.c. End component and side wall
r a container. 4,667,842, 5-26-87, Cl. 220-307.000.
ins, Mark C., to Sony Corporation. Television signal processing
paratus. 4,698,678, 10-6-87, Cl. 358-148.000.
ins, Mark C., to Sony Corporation. Digital television signal pro-
ssing apparatus. 4,698,698, 10-6-87, Cl. 360-10.100.
ins, Michael J.; and Goetchius, Ronald J., to CEM Corporation.
nalytical apparatus and process. 4,651,285, 3-17-87, Cl. 364-496.000.
ins, Michael J.; and Hargett, Wyatt P., Jr., to CEM Corporation.
nalytical process in which materials to be analyzed are directly and
directly heated and dried by microwave radiation. 4,681,996,
21-87, Cl. 219-10.55M.
lins, Michael S.; Tsay, Grace C.; and Seng, Richard L., to Miles
aboratories, Inc. Vaccine for *Pseudomonas aeruginosa*. 4,693,891,
15-87, Cl. 424-92.000.
lins, Michael S.: *See—*
Tsay, Grace C.; and Collins, Michael S., 4,663,160, Cl. 424-87.000.
lins, Nancy: *See—*
Dupont, Bo; Hoffman, Michael K.; Collins, Nancy; Yang, Soo Y.; Morishima, Yasuo; and Kobayashi, Masahide, 4,677,056, Cl. 435-7.000.
Dupont, Bo; Morishima, Yasuo, Collins, Nancy; Ogata, Shunichiro; and Lloyd, Kenneth O., 4,710,457, Cl. 435-7.000.
lins, Paul W.; and Gasiecki, Alan F., to G. D. Searle & Co. Tetrae-
yl prostaglandins. 4,683,328, 7-28-87, Cl. 560-118.000.
lins, Paul W.; and Weier, Richard M., to G. D. Searle & Co. Novel
termediate compounds in a process for producing 16-phenoxy- and
6-substituted phenoxy-9-keto-prostatrienoic acid derivatives.
689,419, 8-25-87, Cl. 556-437.000.
lins, Paul W.; and Gasiecki, Alan F., to G. D. Searle & Co. Omega
ycloalkyl prostaglandins. 4,713,477, 12-15-87, Cl. 560-118.000.
lins, Raymond F.; Knowles, Philip; Saunders, Libert C.; Tierney,
rancis J.; and Warne, Peter J., to May & Baker Limited. Antiar-
ritic pyridylaminoethene disulfonyl compounds and use. 4,647,569,
3-87, Cl. 514-340.000.
lins, Robert J.: *See—*
Smitt, Eric L.; and Collins, Robert J., 4,685,124, Cl. 379-95.000.
lins, Ronald J.; and Cain, Michael, to Dentsply Research & Devel-
pment Corp. Ophthalmic instrument support. 4,643,547, 2-17-87, Cl.
51-245.000.
lins, Scott J., to Gardner, William E. Device for cutting shielded
able. 4,697,343, 10-6-87, Cl. 30-90.300.
lins, Scott J.: *See—*
Omdoll, Paul A.; and Collins, Scott J., 4,706,844, Cl. 221-59.000.

Collins, Stuart. Butt structure with adjustable reel seat. 4,688,346, 8-25-87, Cl. 43-22.000.

Collins, Stuart M. Multi part butt and reel seat used on fishing rods. 4,637,157, 1-20-87, Cl. 43-22.000.

Collins, Truman J.: *See—*
Dossey, Robert L.; and Collins, Truman J., 4,706,949, Cl. 269-283.000.

Collins, Van B. Heel spawn. 4,642,916, 2-17-87, Cl. 36-58.600.

Collins, Walter. Barbeque smoker. 4,643,162, 2-17-87, Cl. 126-41.00R.

Collins, Wayne, to Pillar Technologies, Inc. Electrode segments for corona discharge devices. 4,684,803, 8-4-87, Cl. 250-324.000.

Collins, William C. Supplied air respirator system. 4,649,912, 3-17-87, Cl. 128-202.130.

Collins, William K.; and Spector, George. Comfort ring. 4,713,947, 12-22-87, Cl. 66-1.00A.

Collinson, Christopher D.; and Ross, Hugh M., to Davy McKee (Poole) Limited. Apparatus for applying liquid for a rolling mill. 4,638,950, 1-27-87, Cl. 239-551.000.

Collis, John S., Jr. Surgical instrument. 4,660,557, 4-28-87, Cl. 128-305.000.

Collis, Raymond D.: *See—*
Lieb, M. Jeremy; and Collis, Raymond D., 4,682,560, Cl. 114-343.000.

Colliva, Giovanni. Principles and appliances for cutting of spherical-faceted gems and gems thus obtained. 4,686,795, 8-18-87, Cl. 51-125.000.

Colliver, Anthony D.; and Wrightson, Robert W., to F. F. Seeley Nominees Pty., Ltd. Shaft and pulley assembly. 4,643,644, 2-17-87, Cl. 416-174.000.

Collmann, Wilhelm. Device for the positioning of tires. 4,638,756, 1-27-87, Cl. 118-215.000.

Collobert, Daniel: *See—*
Anizan, Paul; Collobert, Daniel; and Massaloux, Dominique, 4,692,892, Cl. 364-807.000.

Collodel, Zurino P., to Singer Company, The. Pneumatic actuated cam driven parallel gripper. 4,696,503, 9-29-87, Cl. 294-88.000.

Collomb, Jean: *See—*
Rhenter, Jean L.; and Collomb, Jean, 4,693,724, Cl. 623-23.000.

Collombet, Michel, to Commissariat a l'Energie Atomique; Framatome & Cie; and Merlin Gerin. State logic testing device for a logic circuit. 4,652,815, 3-24-87, Cl. 324-73.00R.

Collonia, Harald, to VDO Adolf Schindling AG. Device for regulating the speed of a vehicle, particularly an automotive vehicle, having an electronic regulator. 4,638,879, 1-27-87, Cl. 180-179.000.

Colman, Bernard. Adjustable mold for the manufacture of concrete elements such as staircases. 4,714,231, 12-22-87, Cl. 249-14.000.

Colmon, Daniel: *See—*
Bravet, Jean L.; Colmon, Daniel; Daude, Gerard; and Moncheaux, Michel J., 4,652,494, Cl. 428-423.100.
Bravet, Jean L.; Colmon, Daniel; Daude, Gerard; and Moncheaux, Michel J., 4,671,838, Cl. 156-246.000.

Colodner, Jesse L.; and Ebner, Edwin D. Exhaust gas fire fighting apparatus. 4,669,548, 6-2-87, Cl. 169-12.000.

Colodner, Jesse L.; and Riumbau, Conrad. Token with information data. 4,703,165, 10-27-87, Cl. 235-487.000.

Coloka, Mita, to Bengt Gustaf Thoren. Heat pump. 4,651,539, 3-24-87, Cl. 62-504.000.

Colombani, Antoine: *See—*
D'Aibaret, Bertrand; and Colombani, Antoine, 4,714,906, Cl. 333-202.000.

Colombani, Louie V. Multiple-ring toilet seat assembly and mounting means. 4,680,816, 7-21-87, Cl. 4-240.000.

Colombi, Nelly, to Istituto Biochimico Pavese SpA. Novel soluble salt having analgesic and anti-inflammatory activity, a process for the preparation thereof and pharmaceutical forms containing them. 4,672,077, 6-9-87, Cl. 514-555.000.

Colombo, Edward A.: *See—*
Boyd, Dana M.; Colombo, Edward A.; and Lashway, William H., 4,657,811, Cl. 428-318.600.

Colombo, Enzo. Cooled roller for the continuous casting of flat bars. 4,669,527, 6-2-87, Cl. 164-428.000.

Colombo, Joseph: *See—*
Crosbie, Richard J.; Colombo, Joseph; and Grant, J. Wallace, 4,667,678, Cl. 128-663.000.

Colombo, Paolo; Conte, Ubaldo; and Reiner, Alberto, to Sigma-Tau Industrie Farmaceutiche Riunite S.p.A. Delivery device for zero-order release of an active principle into a dissolution fluid and process for its preparation. 4,681,755, 7-21-87, Cl. 424-486.000.

Colombo, Piero, to Continua International Continuous Casting S.p.A. Continuous casting plant. 4,633,933, 1-6-87, Cl. 164-154.000.

Colombo, Piero; and Comelli, Daniele, to Continua International Continuous Casting S.p.A. Extractor/straightener device for continuous casting installations. 4,703,792, 11-3-87, Cl. 164-442.000.

Colombo, Piero; Cellai, Marino; and Cognetti de Martiis, Carlo, to SGS-ATES Componenti Elettronici S.p.A. High reliability metal and resin container for a semiconductor device. 4,712,127, 12-8-87, Cl. 357-72.000.

Colombo, Robert A.: *See—*
Chlumecky, Wayne E.; Cryder, John H.; Colombo, Robert A.; and Spenk, Robert E., 4,660,895, Cl. 303-75.000.

Colombo, Sergio: *See—*
Terra, Luigi; Sada, Edoardo; and Colombo, Sergio, 4,649,277, Cl. 250-363.00S.

Colon, Herman; and Maletsky, Albert, to Malcolm Nicol & Co. Wetness indicating hot-melt adhesives. 4,681,576, 7-21-87, Cl. 604-361.000.

- Colon, Ismael; and Johnson, Robert, to Union Carbide Corporation. Flexible, self-cross-linking binders. 4,647,506, 3-3-87, Cl. 428-413.000.
- Coloney, Wayne H. Aircraft fuel tank. 4,715,417, 12-29-87, Cl. 150-55.000.
- Colonial Rubber Works, Inc.: *See—*
  - Thurman, Glenn A., 4,703,093, Cl. 525-387.000.
- Colony Services Inc.: *See—*
  - Smith, Robert W., 4,713,929, Cl. 56-8.000.
- Coloplast A/S: *See—*
  - Samuelsen, Peter B., 4,699,134, Cl. 128-156.000.
- Color Arts, Inc.: *See—*
  - Poplawski, Judith A.; and Andersen, David J., 4,713,012, Cl. 434-373.000.
- Color Communications, Inc.: *See—*
  - Lerner, Stanley, 4,661,182, Cl. 156-94.000.
- Color Dynamics, Inc.: *See—*
  - Jacobs, Ralph S., 4,633,740, Cl. 81-3.090.
- Color Optics, Ltd.: *See—*
  - Fuhrman, Ari, 4,638,025, Cl. 524-40.000.
- Color Systems Technology, Inc.: *See—*
  - Weinger, Ralph, 4,642,676, Cl. 358-22.000.
- Colorado Medical, Inc.: *See—*
  - Boag, James T., 4,695,385, Cl. 210-636.000.
- Colorado State University: *See—*
  - Scher, Frances M., 4,714,614, Cl. 424-93.000.
- Colorado State University Research Foundation: *See—*
  - Macy, Dennis W., 4,710,370, Cl. 424-9.000.
  - Macy, Dennis W., 4,716,030, Cl. 424-9.000.
  - Phillips, Robert W.; and Ellinghuysen, Jerald A., 4,689,319, Cl. 514-25.000.
- Colorado Video, Incorporated: *See—*
  - Southworth, Glen R.; and Cornilsen, Robert J., 4,713,693, Cl. 358-160.000.
- Colorcon, Inc.: *See—*
  - Porter, Stuart C.; and Woznicki, Edward J., 4,643,894, Cl. 424-35.000.
  - Porter, Stuart C.; and Woznicki, Edward J., 4,683,256, Cl. 524-285.000.
  - Porter, Stuart C.; Woznicki, Edward J.; Grillo, Susan M.; and D'Andrea, Louis F., 4,704,295, Cl. 427-3.000.
- Colorgen, Inc.: *See—*
  - O'Brien, John K., 4,654,794, Cl. 364-413.000.
- Colorization Inc.: *See—*
  - Markle, Wilson; and Mitchell, Christopher, 4,710,805, Cl. 358-81.000.
- Colorocs Corporation: *See—*
  - Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., 4,652,115, Cl. 355-14.0TR.
  - Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., 4,697,920, Cl. 355-14.0CH.
  - Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., 4,699,079, Cl. 118-658.000.
  - Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., 4,705,385, Cl. 355-4.000.
- Colpaert, James J., to Allied Corporation. Disc brake assembly. 4,685,542, 8-11-87, Cl. 188-72.300.
- Colpaert, James J.: *See—*
  - Temple, Robert B.; and Colpaert, James J., 4,712,654, Cl. 188-71.800.
- Colpan, Metin: *See—*
  - Riesner, Detlev; and Colpan, Metin, 4,699,717, Cl. 210-635.000.
- Colpo Co., Ltd.: *See—*
  - Takasugi, Mitsuo, 4,681,243, Cl. 222-83.000.
- Colsen, Ronnie H.: *See—*
  - Kairis, Alexandre; and Colsen, Ronnie H., 4,694,840, Cl. 128-735.000.
- Colson Castors (Europe) Limited: *See—*
  - Screen, Stafford T., 4,677,706, Cl. 16-35.00R.
- Colson Castors (U.K.): *See—*
  - Screen, Stafford T., 4,706,329, Cl. 16-47.000.
- Colson, Norman E. Implement transfer carriage. 4,657,268, 4-14-87, Cl. 280-47.270.
- Colson, Wendell B.: *See—*
  - Schnebly, John T.; Steele, Richard S.; and Colson, Wendell B., 4,647,488, Cl. 428-116.000.
  - Schnebly, John T.; Steele, Richard S.; and Colson, Wendell B., 4,675,060, Cl. 156-65.000.
- Colson, William B., to United States of America, Air Force. Methods for tuning free electron lasers to multiple wavelengths. 4,674,091, 6-16-87, Cl. 372-20.000.
- Colt Industries Inc.: *See—*
  - Brown, Robert R., 4,681,178, Cl. 180-68.300.
  - Farmer, Donald J., 4,700,258, Cl. 361-39.000.
  - Lemp, Mark D., 4,671,557, Cl. 296-37.160.
  - Mesenich, Gerhard; Bart, Hansueli; and Alsbrook, Daniel E., 4,708,117, Cl. 123-533.000.
  - Patton, Roy D., 4,698,543, Cl. 313-357.000.
  - Sundberg, Jack G.; and Gahura, Andrew, 4,669,735, Cl. 277-1.000.
  - Sundberg, Jack G.; and Noell, Godwin L., 4,711,619, Cl. 418-27.000.
  - Tatro, Henry J., 4,658,702, Cl. 89-139.000.
  - Tatro, Henry J., 4,663,875, Cl. 42-71.010.
- Colt Industries Operating Corp.: *See—*
  - Corrette, Richard H., 4,666,348, Cl. 407-24.000.
  - Corrette, Richard H., 4,713,954, Cl. 72-88.000.
  - Cowles, Warren H., 4,637,366, Cl. 123-568.000.
  - Cowles, Warren H.; and Sowik, Jerry A., 4,660,597, Cl. 137-505.420.
  - Fuller, William A., 4,648,559, Cl. 239-585.000.
- Coltene AG: *See—*
  - Schmid, Adalbert; Kiener, Alfons; Kagi, Stephan; and Claude, Jean P., 4,685,969, Cl. 106-35.000.
- Colton, Robert M., to RCA Corporation. Current limited constant frequency dc converter. 4,686,617, 8-11-87, Cl. 363-56.000.
- Coltrinari, Enzo L., to Resource Technology Associates. Method for recovery of cyanide from waste streams. 4,708,804, 11-24-87, Cl. 210-677.000.
- Columbia Gas System Service Corp.: *See—*
  - Eberle, Arthur C.; Thomson, David M.; and Sherman, John J., 4,676,095, Cl. 73-112.000.
  - Jatana, Subhash C., 4,641,631, Cl. 126-101.000.
  - Malcosky, Norman D., 4,658,750, Cl. 114-244.000.
  - Malcosky, Norman D.; and Koziar, Gregory, 4,690,689, Cl. 48-174.000.
  - Reid, Edward A.; Cook, F. Bert; and Purvis, Edgar M., 4,691,532, Cl. 62-476.000.
  - Reid, Edward A., Jr.; Cook, F. Bert; Winter, Edward M.; Purvis, Edgar M., Jr.; and Krause, Horatio H., Jr., 4,646,541, Cl. 62-476.000.
  - Winter, Edward M.; Price, David E.; and Hook, James E., 4,641,588, Cl. 110-203.000.
- Columbia Magnetic Products Co., Ltd.: *See—*
  - Tanuma, Yoshimi; and Watanabe, Hidetoshi, 4,651,876, Cl. 206-387.000.
- Columbia Parcar Corporation: *See—*
  - Bergner, William J., 4,648,473, Cl. 180-65.800.
- Columbia University, The Trustees of: *See—*
  - Manning, Maurice; and Sawyer, Wilbur H., 4,649,130, Cl. 514-11.000.
  - Manning, Maurice; and Sawyer, Wilbur H., 4,714,696, Cl. 514-11.000.
- Columbia University in the City of New York, The Trustees of: *See—*
  - Anderson, Roger N.; Hobart, Michael A.; and Van Steveninck, William, 4,676,664, Cl. 374-136.000.
  - Axel, Richard; Wigler, Michael H.; and Silverstein, Saul J., 4,634,665, Cl. 435-68.000.
  - Barton, Jacqueline K., 4,699,978, Cl. 536-27.000.
  - Cantor, Charles R.; and Schwartz, David C., 4,695,548, Cl. 435-179.000.
  - Czarnul, Zdzislaw, 4,710,726, Cl. 330-69.000.
  - Still, W. Clark; Hamann, Philip R.; and Bhagwat, Shripad S., 4,672,131, Cl. 549-268.000.
- Columbus McKinnon Corporation: *See—*
  - Broyden, Robert H.; Benton, R. Paul; and Eldridge, Allen E., 4,635,903, Cl. 254-362.000.
  - Broyden, Robert H.; Schenk, Douglas E.; and Newman, Raymond A., 4,636,962, Cl. 364-478.000.
  - Dicky, John, 4,684,070, Cl. 241-79.300.
  - Dicky, John, 4,684,071, Cl. 241-80.000.
- Colvell, William F.; and Baker, Dean M. Bearing extractor. 4,694,569, 9-22-87, Cl. 29-724.000.
- Colvin, David S. Socket including adjustable jaws. 4,663,999, 5-12-87, Cl. 81-128.000.
- Colvin, George. Chimney fire extinguishing apparatus. 4,646,847, 3-3-87, Cl. 169-49.000.
- Colvin, Harry, Jr., to Shanni International, Inc. Prefabricated folding structure. 4,660,332, 4-28-87, Cl. 52-79.500.
- Colvin, Howard A.; Cottman, Kirkwood S.; and Parker, Dane K., to Goodyear Tire & Rubber Company, The. Functionalized monomers from 1-(1-isocyanato-1-methylethyl)-3 or 4-(1-methylethenyl) benzene. 4,714,772, 12-22-87, Cl. 558-240.000.
- Colvin, Howard A.: *See—*
  - Smith, Robert A.; Parker, Dane K.; Colvin, Howard A.; Weinstein, Arthur H.; and Patterson, Dennis B., 4,694,057, Cl. 526-206.000.
- Colvin, Michael S.: *See—*
  - Chang, Manchium; Colvin, Michael S.; Rembaum, Alan; and Richards, Gil F., 4,707,523, Cl. 525-372.000.
- Colvin, Richard. Archery sight. 4,689,887, 9-1-87, Cl. 33-265.000.
- Colvin, Warren: *See—*
  - Khanna, Pyare; and Colvin, Warren, 4,652,531, Cl. 436-501.000.
- Colwell, Terance C.: *See—*
  - Coombes, Robert L., Jr.; Owen, Merrill J.; Colwell, Terance C.; and Walker, Donald E., 4,714,535, Cl. 204-297.00W.
- Colzani, James W.; and Kehl, Nelson H., to Midwest Instrument Co., Inc. Lance for stirring molten metal and method of making the same. 4,667,385, 5-26-87, Cl. 29-157.00C.
- Com Dev Ltd.: *See—*
  - Raab, Anthony R., 4,668,953, Cl. 342-373.000.
  - Saad, Abdelmegid K., 4,646,039, Cl. 333-210.000.
  - Saad, Abdelmegid K., 4,673,903, Cl. 333-210.000.
  - Tang, Wai-Cheung; Frenna, Joseph; and Siu, David, 4,644,305, Cl. 333-208.000.
  - Tang, Wai-Cheung; Siu, David; Beggs, Bruce C.; and Sferrazza, Joseph, 4,652,843, Cl. 333-212.000.

  - Tang, Wai-Cheung; Siu, David; Beggs, Bruce C.; and Sferrazza, Joseph, 4,675,630, Cl. 333-208.000.
- nair Rotron, Inc.: *See—*
  - Brown, Fred A., 4,656,553, Cl. 361-31.000.
- nalco Aluminium Limited: *See—*
  - Andrews, William H., 4,713,203, Cl. 264-117.000.
- nalco Aluminum Limited: *See—*
  - Cresswell, Pearson J.; Grayson, Ian L.; and Smith, Andrew H., 4,668,485, Cl. 423-119.000.
- ian, Clyde R. Rotary valve internal combustion engine. 4,658,776, 21-87, Cl. 123-190.0BD.
- ian, William E.: *See—*
  - Andrews, Rodney R.; Ferguson, John H.; Kaiser, Frederick A.; and Coman, William E., 4,701,068, Cl. 403-359.000.
- naty, Joseph E.: *See—*
  - Ehrenpreis, Seymour; Comaty, Joseph E.; and Balagot, Reuben C., 4,687,781, Cl. 514-557.000.
- nau S.p.A.: *See—*
  - Bossotto, Piero; and Brandino, Mario, 4,682,722, Cl. 228-41.000.
  - Cigna, Paolo, 4,661,040, Cl. 414-744.00R.
  - Damiani, Fernando, 4,673,785, Cl. 219-10.570.
  - Marinoni, Giorgio; and Capello, Giuseppe, 4,698,483, Cl. 219-121.0LU.
- nbe, Michel; and Alberola, Georges, to Electricite de France (Ser-ce National). Single-channel measuring head for remote metering pparatus. 4,651,151, 3-17-87, Cl. 340-870.240.
- nberg, Albert A.; Knops, Alwin; Oepen, Heinrich A.; and Wadow, eter, to U.S. Philips Corporation. Projection television display be. 4,651,047, 3-17-87, Cl. 313-22.000.
- nberg, Albert A.; and Schroder, Johann, to U.S. Philips Corpora-on. Projection television display tube with improved cooling. 678,961, 7-7-87, Cl. 313-36.000.
- nbet, Roger: *See—*
  - Billard, Georges; Blanchard, Francoise; Klemenz, Willy; Combet, Roger; and Richard, Daniel, 4,693,429, Cl. 242-18.00G.
- nbi Co., Ltd.: *See—*
  - Nakao, Shinroku; Ishii, Yoshiyasu; Ishii, Kenshun; and Tsuchiya, Kunimasa, 4,653,745, Cl. 272-73.000.
  - Nakao, Shinroku; Saito, Hideo; and Suzuki, Yoshiyuki, 4,660,850, Cl. 280-642.000.
  - Nakao, Shinroku; Ishii, Yoshiyasu; and Matsuda, Hiroaki, 4,676,466, Cl. 248-166.000.
  - Nakao, Shinroku; Itoh, Masao; Itoh, Akira; and Takano, Hiroshi, 4,678,182, Cl. 272-73.000.
- nbined Technologies, Inc.: *See—*
  - Huber, William J., 4,675,771, Cl. 361-41.000.
  - Huber, William J., 4,689,596, Cl. 337-159.000.
- nbourieu, Michel: *See—*
  - Monteil, Andre J.; Simond, Jacques A.; and Combourieu, Michel, 4,645,778, Cl. 514-422.000.
- nbs, Daniel J.; Martin, Sylvia; Tremmel, Robert A.; Snell, Kenneth).; Kamitani, Masaaki; Kimizuka, Ryoichi; and Koga, Takaaki, to MI International Corporation; and Ebara-Udylite Co., Ltd. Zinc-ickel alloy electrolyte and process. 4,699,696, 10-13-87, Cl. 04-44.200.
- nbs, Donald W.: *See—*
  - Bandurco, Victor T.; Bell, Stanley C.; Combs, Donald W.; Falotico, Robert; and Tobia, Alfonso J., 4,639,518, Cl. 544-285.000.
- nbs Enterprises, Inc.: *See—*
  - Everman, Wayne H.; and Gilbert, Joseph H., 4,690,732, Cl. 202-100.000.
- nbustion Control Developments, Ltd.: *See—*
  - Lindberg, John E., 4,696,279, Cl. 123-570.000.
- nbustion Electromagnetics, Inc.: *See—*
  - Ward, Michael A. V., 4,677,960, Cl. 123-598.000.
  - Ward, Michael A. V.; and Lefevre, Robert P., 4,688,538, Cl. 123-598.000.
- nbustion Engineering, Inc.: *See—*
  - Adams, James H.; Burgess, Jerry L.; and Wagers, William C., 4,640,695, Cl. 55-130.000.
  - Alden, John W., Jr., 4,664,069, Cl. 122-381.000.
  - Alexander, Jack L., 4,648,806, Cl. 417-238.000.
  - Anderson, David K.; and Kozlak, Martin J., 4,651,623, Cl. 110-234.000.
  - Andrews, Mena G., 4,652,424, Cl. 376-333.000.
  - Anthony, Andrew J., 4,650,643, Cl. 376-288.000.
  - Barto, Ronald J.; Goodstine, Stephen L.; and Noto, Frank A., 4,709,664, Cl. 122-379.000.
  - Bianca, Joseph D.; and Anderson, David K., 4,715,301, Cl. 110-347.000.
  - Brook, Mark V., 4,658,649, Cl. 73-624.000.
  - Callaghan, Vincent M.; and Wolpert, Melvin J., III, 4,678,621, Cl. 376-245.000.
  - Carty, Michael W.; and Kraus, Guenther M., 4,633,913, Cl. 138-147.000.
  - Couture, Michael V., 4,649,017, Cl. 376-272.000.
  - Couture, Michael V.; and Keklak, Ronald, 4,659,535, Cl. 376-261.000.
  - DeWitt, Gregory L.; and Huber, Dennis J., 4,652,423, Cl. 376-277.000.
  - Dunn, Mark R., 4,637,556, Cl. 241-48.000.
  - Eaton, Favre E.; Brazant, James F.; and Thornton, Lawrence E., 4,701,713, Cl. 324-442.000.
  - Edwards, Lawrence J., 4,703,264, Cl. 324-220.000.
  - Eramo, Mark P.; and Holmes, John M., 4,665,760, Cl. 73-866.500.
  - Formanek, Frank J., 4,650,641, Cl. 376-272.000.
  - Formanek, Frank J., 4,687,245, Cl. 294-87.100.
  - Gaunt, Robert R.; and Ashman, Charles M., 4,670,211, Cl. 376-245.000.
  - Grusha, John, 4,634,054, Cl. 239-423.000.
  - Hayes, Lawrence R., 4,661,309, Cl. 376-248.000.
  - Holmes, Myron L.; and Smolensky, Leo A., 4,640,201, Cl. 110-245.000.
  - Holmes, Myron L.; and Smolensky, Leo A., 4,679,511, Cl. 110-216.000.
  - Horlitz, Carl F., Jr.; and Swietek, Franciscek J., 4,633,818, Cl. 122-4.00D.
  - Joy, Ira L.; Arstikaitis, Arunas A.; and Troulias, James R., 4,700,014, Cl. 174-31.00R.
  - Kownurko, William A., 4,708,017, Cl. 73-438.000.
  - Kozlak, Martin J., 4,644,800, Cl. 73-861.640.
  - Krawczyk, Paul D.; and Bosso, Alexander, 4,650,340, Cl. 366-220.000.
  - Leaseburge, Emory J.; and Melda, Kenneth J., 4,681,678, Cl. 210-101.000.
  - Leaseburge, Emory J.; and Thomas, Thomas J., 4,684,465, Cl. 210-198.200.
  - Margotta, Kenneth V., 4,655,483, Cl. 285-169.000.
  - Martin, Kenneth A., 4,676,108, Cl. 73-722.000.
  - McCartney, Michael S., 4,700,637, Cl. 110-237.000.
  - Moscardini, Robert L., 4,641,789, Cl. 241-31.000.
  - Musto, Richard L.; and Dunn, Mark R., 4,640,464, Cl. 241-34.000.
  - Nelson, H. Wharton, 4,664,042, Cl. 110-347.000.
  - Norman, Phillip J., 4,676,573, Cl. 439-318.000.
  - Overbay, Mark A., 4,679,315, Cl. 29-726.000.
  - Overbay, Mark A., 4,696,102, Cl. 29-726.000.
  - Peletz, Lawrence J., Jr.; and Jukkola, Glen D., 4,690,076, Cl. 110-347.000.
  - Pitt, Terry L., 4,648,066, Cl. 364-900.000.
  - Prairie, Robert S.; and Paskowski, Frank J., Jr., 4,706,900, Cl. 241-121.000.
  - Rankin, Arthur L., III, 4,678,131, Cl. 241-293.000.
  - Ross, Bruce A., 4,642,557, Cl. 324-71.200.
  - Santalla, Richard W.; Kokkinos, Angelos; Collette, Robert J.; and McCartney, Michael S., 4,672,900, Cl. 110-264.000.
  - Scarola, Kenneth; and Burns, Joseph E., III, 4,663,576, Cl. 318-685.000.
  - Schukei, Glen E.; and Schukei, Robert J., 4,643,472, Cl. 294-94.000.
  - Schukei, Glen E., 4,682,630, Cl. 138-89.000.
  - Schuss, Jack A., 4,635,184, Cl. 364-187.000.
  - Schuss, Jack A., 4,672,530, Cl. 364-133.000.
  - Shulof, George F.; and DiMonte, Michael J., 4,714,202, Cl. 241-30.000.
  - Tanca, Michael C., 4,680,035, Cl. 48-77.000.
  - Tordonato, Sebastian, 4,637,455, Cl. 165-104.160.
  - Waryasz, Richard E., 4,641,608, Cl. 122-510.000.
  - Waryasz, Richard E., 4,704,992, Cl. 122-4.00D.
  - Wheeler, Harry L., 4,654,544, Cl. 307-270.000.
  - Winship, Ralph D., 4,655,148, Cl. 110-347.000.
- Combustion Research Corporation: *See—*
  - Johnson, Arthur C. W., 4,676,434, Cl. 237-1.00R.
  - Johnson, Arthur C. W., 4,699,316, Cl. 237-69.000.
- Comby, Georges, to Commissariat a l'Energie Atomique. Apparatus for examining samples by electron emission. 4,654,556, 3-31-87, Cl. 313-93.000.
- Comdox No. Pty. Ltd.: *See—*
  - Trethewey, Reginald, 4,641,833, Cl. 272-72.000.
- Come, Philippe; and Aires, Raphael, to Bendix France. Cap for a reservoir. 4,666,057, 5-19-87, Cl. 220-368.000.
- Comeau, Perry. Sports pack. 4,693,402, 9-15-87, Cl. 224-215.000.
- Comeau, Rene, to Cablovision Alma Inc. Method and device for remotely identifying TV receivers displaying a given channel by means of an identification signal. 4,635,109, 1-6-87, Cl. 358-84.000.
- Comelli, Daniele: *See—*
  - Colombo, Piero; and Comelli, Daniele, 4,703,792, Cl. 164-442.000.
- Comer, Robert C.; Hampel, Wilbur J.; and Rogers, Edward A., to Toro Company, The. Convertible vacuum-blower. 4,694,528, 9-22-87, Cl. 15-330.000.
- COMER S.p.A.: *See—*
  - Fabbri, Fabrizio, 4,696,199, Cl. 74-417.000.
- Comerford, John J.: *See—*
  - Westover, Brooke N.; Comerford, John J.; and Mattis, Donald J., 4,669,185, Cl. 29-882.000.
  - Westover, Brooke N.; Lupoli, Peter J.; and Comerford, John J., 4,673,238, Cl. 439-890.000.
- Comerford, Liam D.: *See—*
  - Chandra, Akhileshwari N.; Comerford, Liam D.; and White, Steve R., 4,644,493, Cl. 364-900.000.
- Comerford, Robert P.: *See—*
  - Edgar, Thomas L.; Baker, George A.; and Comerford, Robert P., 4,662,137, Cl. 52-245.000.
- Comet - Construzione Occhiali Metallo S.p.A.: *See—*
  - Taddei, Lorenzo, 4,681,411, Cl. 351-137.000.
- Comez S.p.A.: *See—*
  - Omodeo Zorini, Luigi, 4,683,727, Cl. 66-207.000.
  - Zorini, Luigi O., 4,699,331, Cl. 242-131.000.
- Comfort, Joseph D.: *See—*
  - Hipkins, Edward C., Sr.; Locotos, Frank M.; and Comfort, Joseph D., 4,655,645, Cl. 405-261.000.

Comfort, Theodore F., to Hercules Incorporated. Cross-linked double base propellant having improved low temperature mechanical properties. 4,659,402, 4-21-87, Cl. 149-19.400.

Comfortex, Inc.: *See—*
  Murphy, Mike, 4,706,313, Cl. 5-464.000.

Cominco Ltd.: *See—*
  Ball, Donald L.; and Boateng, Daniel A. D., 4,636,295, Cl. 204-182.400.
  Ball, Donald L., and Boateng, Daniel A. D., 4,715,939, Cl. 204-182.400.
  Bult, Roelof P.; Bollong, Alan B. I.; and Redden, Robert F., 4,690,725, Cl. 156-617.00R.
  Pelto, Elmer M.; and Pearson, Allan, 4,697,960, Cl. 405-260.000.
  Trevison, Robert L.; McKee, William E.; and Hunnel, Larry B., 4,640,438, Cl. 220-359.000.
  Warren, Ian H.; and Mok, Felix, 4,693,790, Cl. 204-1.00T.

Cominetta, Gilberto; and Oggionni, Claudio, to BS Smogless S.p.A. Modular plastic packing for the biological treatment of waste waters by percolation. 4,634,534, 1-6-87, Cl. 210-150.000.

Comino, Vittorio: *See—*
  Siligoni, Marco; Lari, Ferdinando; Saviotti, Vanni; and Comino, Vittorio, 4,638,122, Cl. 379-124.000.

Comins, Todd R.: *See—*
  Chasse, Dennis W.; Bourgeois, David R.; and Comins, Todd R., 4,646,260, Cl. 364-900.000.
  Clark, Vincent M., Jr.; Bourgeois, David R.; Chasse, Dennis W.; and Comins, Todd R., 4,669,057, Cl. 364-900.000.

Comitato Nazionale per la Ricerca e per lo Sviluppo dell'Energie, Nucleare e delle Energie Alternative - ENEA: *See—*
  Armandillo, Errico; Salvetti, Gianemilio; and Giuliani, Giampiero, 4,682,893, Cl. 356-356.000.

Comley, Jack W., to Royal Ordnance plc. Firearm with automatic ejection. 4,646,456, 3-3-87, Cl. 42-1.080.

Comley, Jack W., to Royal Ordnance plc. Obturation in a firearm. 4,649,659, 3-17-87, Cl. 42-2.000.

Comlinear Corporation: *See—*
  Nelson, David A., 4,713,628, Cl. 330-254.000.
  Saller, Kenneth R.; and Rentel, Kurt R., 4,639,685, Cl. 330-263.000.

Comm/Scope Company: *See—*
  Gupta, Chakra V.; and Garrett, Brian D., 4,691,081, Cl. 174-105.00R.
  Gupta, Chakra V.; and Garrett, Brian D., 4,701,575, Cl. 174-107.000.

Command Automation, Inc.: *See—*
  Simjian, Luther G., 4,634,130, Cl. 273-176.0FA.
  Simjian, Luther G., 4,638,996, Cl. 272-146.000.

Commander Electrical Materials, Inc.: *See—*
  Nattel, William, 4,642,420, Cl. 174-53.000.
  Nattel, William, 4,692,561, Cl. 174-65.0SS.
  Nattel, William, 4,692,562, Cl. 174-65.0SS.

Commandeur, Raymond: *See—*
  Kervennal, Jacques; Mathais, Henri; and Commandeur, Raymond, 4,650,899, Cl. 560-359.000.

Commarmot, Roger; Didenot, Dominique; and Gardais, Jean-Francois, to Societe Prolabo. Apparatus for the chemical reaction by wet process of various products. 4,681,740, 7-21-87, Cl. 422-78.000.

Commarmot, Roger; Didenot, Dominique; and Gardais, Jean-Francois, to Societe Prolabo. Mineralization apparatus for the individual, automatic, treatment of samples of products placed in recipients. 4,693,867, 9-15-87, Cl. 422-64.000.

Commercial Aluminum Cookware Company: *See—*
  Hann, William L.; and Fuller, Stanley E., 4,714,166, Cl. 211-113.000.

Commercial Enclosed Fuse Co. of New Jersey: *See—*
  Rooney, William J.; and Rooney, Francis J., 4,654,620, Cl. 337-296.000.

Commercial Shearing, Inc.: *See—*
  Francis, David W., 4,636,155, Cl. 418-132.000.
  Petro, John D., 4,682,939, Cl. 418-178.000.
  Williams, Arthur, 4,709,724, Cl. 137-596.000.

Commereuc, Dominique: *See—*
  Chauvin, Yves; and Commereuc, Dominique, 4,642,408, Cl. 585-836.000.
  Hugues, Francois; Commereuc, Dominique; and Chauvin, Yves, 4,691,048, Cl. 560-240.000.
  Provin, Gerard; Forestiere, Alain; and Commereuc, Dominique, 4,716,239, Cl. 556-147.000.

Commeyras, Auguste; Taillades, Jacques; Brugidou, Jean; Mion, Louis; Sola, Regine; Pascal, Robert; Lasperas, Monique; and Rousset, Alain, to Centre National de la Recherche Scientifique. Continuous process for synthesizing an α-amino acid by chemical catalytic hydrolysis. 4,677,224, 6-30-87, Cl. 562-557.000.

Commins, Alfred D.; Gilb, Tyrell T.; and Littleton, Karen W., to Simpson Strong-Tie Company, Inc. One piece, non-welded holdown. 4,665,672, 5-19-87, Cl. 52-295.000.

Commins, Alfred D., to Simpson Strong-Tie Company, Inc. Hurricane tie. 4,714,372, 12-22-87, Cl. 403-400.000.

Commissariat a l'Energie Atomique: *See—*
  Abbes, Claude; Rouaud, Christian; Valla, Jean; Forges, Robert; and de Villepoix, Raymond, 4,640,530, Cl. 285-18.000.
  Adet, Bruno; Gudin, Claude; and Thepenier, Catherine, 4,689,301, Cl. 435-284.000.
  Allemand, Robert; Gagelin, Jean-Jacques; and Pleyber, Gaetan, 4,645,934, Cl. 250-374.000.
  Amingual, Daniel; and Felix, Pierre, 4,675,525, Cl. 250-338.000.
  Anzola, Michel; Lefevre, Daniel; and Massicot, Patrick, 4,659,447, Cl. 204-212.000.
  Anzola, Michel; Lefevre, Daniel; Massicot, Patrick; Pierre, Jacques; and Henry, Antoine, 4,673,585, Cl. 427-6.000.
  Arene, Gilbert; Artaud, Robert; and Renaux, Charley, 4,657,071, Cl. 165-134.100.
  Armand, Marie-Francoise; Daval, Jacques; Ferrand, Bernard; and Moriceau, Hubert, 4,698,281, Cl. 428-692.000.
  Arnaudet, Lucile; and Folcher, Gerard, 4,642,337, Cl. 534-11.000.
  Artaud, Robert; Aubert, Michel; and Renaux, Charley, 4,655,996, Cl. 376-272.000.
  Aubert, Gilles, 4,693,279, Cl. 138-108.000.
  Badoux, Jean-Paul; Chaix, Jean E.; and Metteey, Michel, 4,683,112, Cl. 376-402.000.
  Bailly-Salins, Rene, 4,666,296, Cl. 356-28.500.
  Barjon, Robert; and Breynat, Genevieve, 4,666,651, Cl. 376-108.000.
  Basire, Alain, 4,654,776, Cl. 363-127.000.
  Bethuel, Louis; Martin, Laurent; and Dujardin, Thierry, 4,636,290, Cl. 204-186.000.
  Bezer, Christian; Olombel, Andre; and Viel, Georges, 4,634,873, Cl. 250-497.100.
  Bietz, Bernard; van der Vliet, Jacques; and Cartant, Michel, 4,656,896, Cl. 82-1.00C.
  Bisotto, Sylvette; Blanc, Jean-Philippe; Bodin, Bernard; and Poujois, Robert, 4,677,594, Cl. 365-240.000.
  Boen, Roger; Jouan, Antoine; Delage, Daniel; and Reboux, Jean, 4,660,212, Cl. 373-156.000.
  Boncoeur, Marcel; Mandet, Francois; and Palacio, Marc, 4,654,171, Cl. 252-626.000.
  Boncoeur, Marcel; and Hansz, Bernard, 4,675,205, Cl. 427-37.000.
  Boucha, Michel, 4,672,895, Cl. 102-206.000.
  Bourrelly, Paul; Monier, Jean; Patin, Henri; Sanson, Charles; and Schoepp, Robert, 4,658,251, Cl. 340-820.170.
  Bourrelly, Paul; Patin, Henri; Schoepp, Robert; and Sanson, Charles, 4,684,265, Cl. 374-43.000.
  Braun, Camilie; and de Neve, Michel, 4,654,048, Cl. 23-293.00A.
  Briguet, Andre ; and Goldman, Maurice, 4,684,890, Cl. 324-309.000.
  Bruel, Michel; and du Port de Poncharra, Jean, 4,704,302, Cl. 427-38.000.
  Buiguez, Francois; and Hartmann, Joel, 4,636,281, Cl. 156-643.000.
  Buiguez, Francois; Giral, Louis; Rosilio, Charles; and Schue, Francois, 4,689,288, Cl. 430-270.000.
  Burghoffer, Patrick; Pourprix, Michel; and Poussier, Patrick, 4,640,140, Cl. 73-863.220.
  Calvet, Jean; Cavan, Jean-Claude; Thevenin, Jean-Claude; and Fievet, Alain, 4,668,445, Cl. 264-1.500.
  Calvet, Jean; Cavan, Jean-Claude; and Thevenin, Jean-Claude, 4,675,136, Cl. 264-1.500.
  Capra, Thierry; and Gerard, Philippe, 4,711,694, Cl. 156-603.000.
  Carcey, Jacques, 4,665,658, Cl. 51-120.000.
  Carossi, Jean-Claude; Da Costa Viera, David; and Thirion, Claude, 4,700,067, Cl. 250-380.000.
  Carratt, Michel; Hakoun, Roland; Maurel, Jean-Joseph; Pecastaings, Serge; and Repain, Pascal, 4,688,891, Cl. 350-96.240.
  Chaix, Jean-Edmond; and Metteey, Michel, 4,640,537, Cl. 285-368.000.
  Chapuy, Claude; and Delapierre, Gilles, 4,667,391, Cl. 29-576.00T.
  Charles, Gilbert; Assadoullah, Assad; and Bernet, Jean-Marie, 4,637,733, Cl. 368-120.000.
  Charmet, Paul, 4,714,880, Cl. 324-258.000.
  Charvin, Philippe; and Vavasseur, Paul, 4,706,596, Cl. 114-312.000.
  Chastanet, Bernard; Decailloz, Claude; Dournel, Solange; and Manson, Marcel, 4,636,606, Cl. 219-121.0LC.
  Chenevas-Paule, Andre ; and Clerc, Jean-Frederic, 4,694,287, Cl. 340-719.000.
  Chiron, Guy; and Vidal, Jean-Charles, 4,649,349, Cl. 324-346.000.
  Chiron, Guy; and Dumont, Andre, 4,703,266, Cl. 324-249.000.
  Clement, Gilles; and Villedieu, Eric, 4,709,773, Cl. 180-9.320.
  Clerc, Jean-Frederic; and Muller, Francis, 4,639,090, Cl. 350-346.000.
  Clerc, Jean-Frederic; and Deutsch, Jean-Claude, 4,701,028, Cl. 350-337.000.
  Collombet, Michel, 4,652,815, Cl. 324-73.00R.
  Comby, Georges, 4,654,556, Cl. 313-93.000.
  Coppa, Louis; Mengual, Christian; Ripart, Alain; and Zava, Francis, 4,657,728, Cl. 376-248.000.
  Costes, Didier, 4,671,922, Cl. 376-285.000.
  Cransac, Jean-Pierre; Jacquelin, Roland; and Renaux, Charley, 4,663,114, Cl. 376-271.000.
  Dabat, Robert; and Jamet, Claude, 4,639,178, Cl. 413-26.000.
  Danel, Jean-Sebastien; Delapierre, Gilles; and Michel, France 4,653,326, Cl. 73-517.00R.
  Debreuille, Pierre-Jean, 4,662,442, Cl. 166-250.000.
  Dedieu, Alain; Lockhart, Campbell; and Jolu, Etienne, 4,698,29 Cl. 435-7.000.
  Delaunay, Marc; Gualandris, Rene; Geller, Richard; Jacquot, Jean-Claude; Ludwig, Paul; Mathonnet, Jean-Marc; Rocco, Jean-Claude; Sermet, Pierre; Zadworny, Francois; and Bourg, Francois, 4,638,216, Cl. 315-111.810.
  Denis, Rene ; Ghiringhelli, Giulio; and Schaal, Alfred, 4,673,92 Cl. 340-572.000.
  Detriche, Jean-Marie, 4,642,447, Cl. 219-124.340.
  Detriche, Jean-Marie; Houche, Didier; and Gachet, Laurent, 4,651,093, Cl. 324-232.000.

- Detriche, Jean-Marie; and Houche, Didier, 4,689,469, Cl. 219-125.120.
- Diem, Bernard, 4,715,930, Cl. 437-101.000.
- Douchy, Marc; Lohez, Pierre; Malecot, Jean-Guy; and Retali, Gilbert, 4,656,007, Cl. 422-64.000.
- DuPoy, Marc, 4,688,236, Cl. 377-48.000.
- Eloy, Jean-Francois, 4,714,628, Cl. 427-53.100.
- Eybert-Berard, Andre; and Eybert-Berard, Andre, 4,653,379, Cl. 89-1.340.
- Fajeau, Maurice, 4,643,871, Cl. 376-282.000.
- Ferrand, Bernard; and Grange, Yves, 4,666,681, Cl. 422-248.000.
- Fillot, Alain; Gallet, Jean; Paltrier, Sylvain; and Schaub, Bernard, 4,654,196, Cl. 420-525.000.
- Fiori, Robert, 4,657,284, Cl. 285-39.000.
- Frioux, Christian; Glachet, Charles; Francois, Daniel; and Tentelier, Jean, 4,650,388, Cl. 414-1.000.
- Gabard, Jean-Jacques, 4,693,723, Cl. 623-19.000.
- Gain, Robert; Simon, Jacques; Pasturel, Andre; and Roger, Marc, 4,708,836, Cl. 264-40.100.
- Gaucher, Jean-Claude, 4,673,289, Cl. 356-72.000.
- Germond, Jean-Claude; and Clement, Gilles, [illegible],612, Cl. 414-8.000.
- Giroud, Anne-Marie, 4,714,775, Cl. 560-194.000.
- Guillot, Jean-Francois, 4,661,307, Cl. 376-232.000.
- Hartmann, Joel; and Jeuch, Pierre, 4,672,313, Cl. 324-158.00F.
- Hartmann, Joel; and Jeuch, Pierre, 4,682,403, Cl. 29-571.000.
- Henry, Jean-Yves, 4,650,659, Cl. 423-593.000.
- Jeuch, Pierre, 4,703,454, Cl. 365-154.000.
- Kling, Bernard; Mongin, Roger; and Leguennec, Michel, 4,673,245, Cl. 350-96.200.
- Koehly, Gerard; and Madic, Charles, 4,701,308, Cl. 423-2.000.
- Lance, Jacques; and Muller, Georges, 4,691,425, Cl. 29-402.080.
- Latge, Christian, 4,693,088, Cl. 62-55.500.
- Laval, Francois; Madec, Pierre J.; and Marechal, Ernest, 4,647,642, Cl. 528-25.000.
- Laviron, Andre, 4,669,083, Cl. 371-23.000.
- Laviron, Andre, 4,677,628, Cl. 371-57.000.
- Laviron, Andre, 4,713,606, Cl. 324-73.00R.
- Lazzari, Jean-Pierre, 4,639,289, Cl. 156-643.000.
- Lazzari, Jean-Pierre, 4,684,438, Cl. 156-649.000.
- Lazzari, Jean-Pierre, 4,698,708, Cl. 360-103.000.
- Lazzari, Jean-Pierre, 4,698,716, Cl. 360-135.000.
- Leclercq, Joseph, 4,655,990, Cl. 376-225.000.
- Leclefcq, Joseph M., 4,659,538, Cl. 376-364.000.
- Lefillatre, Guy, 4,663,086, Cl. 252-628.000.
- Lemercier, Guy, 4,666,652, Cl. 376-205.000.
- Le Pargneux, Jacques; Bonnamour, Michel; and Filary, Gerard, 4,653,180, Cl. 29-723.000.
- Lerat, Bernard, 4,639,140, Cl. 356-376.000.
- Lestelle, Dominique, 4,706,506, Cl. 73-862.040.
- Loriot, Pierre; Rendu, Michel; Rousseau, Jean; and Samoel, Alain, 4,678,924, Cl. 29-407.000.
- Mabboux, Marcel; and Mercier, Claude, 4,651,880, Cl. 209-557.000.
- Masse, Jean, 4,698,201, Cl. 376-298.000.
- Massit, Claude; Nicolas, Gerard; and Turc, Gerard, 4,684,181, Cl. 439-59.000.
- Matheron, Gerard; and Migny, Philippe, 4,634,899, Cl. 307-462.000.
- Mauchien, Patrick; and Cauchetier, Philippe, 4,641,032, Cl. 250-459.100.
- Millon-Fremillon, Bruno; and Nicolas, Gerard, 4,671,593, Cl. 439-326.000.
- Morey, Jean-Michel; and Paradis, Gilles, 4,701,225, Cl. 148-132.000.
- Nicolas, Andre, 4,645,941, Cl. 307-110.000.
- Nicolau, Yann F., 4,675,207, Cl. 427-82.000.
- Picard, Bernard, 4,685,807, Cl. 356-401.000.
- Pohelle, Jacques, 4,650,154, Cl. 251-58.000.
- Poujois, Robert, 4,676,761, Cl. 445-3.000.
- Prulhiere, Jean-Paul, 4,692,692, Cl. 324-102.000.
- Quinque, Claude; and Merard, Rene, 4,668,088, Cl. 356-138.000.
- Rabeyrolles, Serge, 4,692,693, Cl. 324-123.00R.
- Raoux, Daniel; and Choquer, Jean, 4,672,686, Cl. 455-123.000.
- Raoux, Daniel, 4,701,760, Cl. 340-993.000.
- Richard, Philippe; Papillon, Jean-Charles; Guyot, Alain; and Corbellini, Carlo, 4,638,838, Cl. 138-30.000.
- Rigoulot, Claude, 4,715,751, Cl. 409-139.000.
- Roche, Michel, 4,663,532, Cl. 250-400.000.
- Saglio, Robert, 4,635,241, Cl. 367-95.000.
- Schaal, Alfred; LaHarrague, Philippe; and Denis, Rene, 4,689,612, Cl. 340-572.000.
- Spitz, Jean, 4,633,623, Cl. 51-439.000.
- Tilliette, Zephyr, 4,633,819, Cl. 122-32.000.
- Tilliette, Zephyr, 4,705,662, Cl. 376-405.000.

Commisso, Nicholas D.: *See—*
- Leary, Sharon M.; Steward, John C.; Commisso, Nicholas D.; De Cook, Edwin R.; Hisle, Ralph E.; and Rowe, Donald, 4,653,685, Cl. 229-2.50R.

Commodore Business Machines, Inc.: *See—*
- Radovsky, Jonathan S., 4,686,487, Cl. 330-288.000.
- Yannes, Robert J., 4,677,890, Cl. 84-1.190.

Common Market Investment Ltd.: *See—*
- McClure, Murray C., 4,634,147, Cl. 283-56.000.

Commons, Thomas J.: *See—*
- Mewshaw, Richard E.; and Commons, Thomas J., 4,709,025, Cl. 540-355.000.
- Skotnicki, Jerauld S.; and Commons, Thomas J., 4,692,517, Cl. 540-222.000.

Commonwealth Edison Company: *See—*
- Burkum, Merlin E.; and Gabriel, Charles M., 4,697,134, Cl. 320-48.000.

Commonwealth Medical Corporation of America: *See—*
- Pollack, Robert L.; and Durst, Lawrence, 4,639,465, Cl. 514-419.000.
- Pollack, Robert L., 4,650,789, Cl. 514-23.000.

Commonwealth of Australia, The: *See—*
- Evans, John M.; Atkins, Philip B.; and Doogood, Peter N., 4,699,004, Cl. 73-384.000.
- Evans, Neil A.; Leaver, Ian H.; Rosevear, Judi; Waters, Peter J.; and Wilshire, John F. K., 4,668,235, Cl. 8-115.580.
- Ive, Richard A., 4,638,272, Cl. 333-236.000.
- Liddiard, Kevin, 4,708,420, Cl. 350-6.600.
- Marwood, Warren; and Clarke, Allen P., 4,698,807, Cl. 371-11.000.
- Ness, John B., 4,651,159, Cl. 343-700.0MS.
- Ness, John B., 4,697,189, Cl. 343-700.0MS.
- Robinson, David E., 4,693,120, Cl. 73-618.000.

Commonwealth Scientific and Industrial Research Organization: *See—*
- Balkau, Guenter K. W.; Bez, Eckhard; and Farrant, John L., 4,699,572, Cl. 417-254.000.
- Banks, Henry J.; and Wiseman, John R., 4,690,041, Cl. 98-57.000.
- Coleman, John D., 4,711,684, Cl. 156-196.000.
- Coleman, John D., 4,711,689, Cl. 156-257.000.
- Coogan, Clive K., 4,690,560, Cl. 356-338.000.
- Evans, Neil A.; Leaver, Ian H.; Rosevear, Judi; Waters, Peter J.; and Wilshire, John F. K., 4,668,235, Cl. 8-115.580.
- Evans, Neil A.; Milligan, Brian; and Waters, Peter J., 4,698,064, Cl. 8-128.00R.
- Hollis, Richard G., 4,678,507, Cl. 75-24.000.
- Laby, Ralph H., 4,671,789, Cl. 604-59.000.
- Laby, Ralph H.; and Lance, Mark A., 4,687,480, Cl. 604-891.000.
- Rhodes, Stuart H.; Lyons, Graham R.; Gregson, Richard P.; Akhurst, Raymond J.; and Lacey, Michael J., 4,672,130, Cl. 348-453.000.
- Sare, Ian R.; Henderson, Ian D.; Heijkoop, Teunis; Bosworth, Michael R.; Aspin, Ronald E.; and Arnold, Brian K., 4,635,701, Cl. 164-102.000.
- Seddon, Duncan; and Bessell, Sandra, 4,675,460, Cl. 585-329.000.
- Seddon, Duncan, 4,695,670, Cl. 585-533.000.
- Swingler, Donald L., 4,668,890, Cl. 313-105.00R.
- Szirmai, Stephen G.; Newman, Gerard R.; and Kelly, Philip L., 4,701,941, Cl. 378-122.000.
- Wright, Ian G., 4,661,348, Cl. 424-88.000.

Commonwealth Serum Laboratories Commission: *See—*
- Geysen, Hendrik, 4,708,871, Cl. 424-88.000.

Commonwealth Technology Incorporated: *See—*
- Carpenter, Richard H., 4,679,504, Cl. 102-348.000.

CommTech International: *See—*
- Wolfe, James F.; Sybert, Paul D.; and Sybert, Joanna R., 4,703,103, Cl. 528-179.000.

Communaute Europeenne de l'Energie Atomique (Euratom): *See—*
- Causse D'Agraives, Bertrand; Mathieu, Janny; and Jamar, Patrick, 4,677,435, Cl. 340-825.310.
- Denis, Rene; Ghiringhelli, Giulio; and Schaal, Alfred, 4,673,922, Cl. 340-572.000.

Communaute Europeenne l'Energie Atomique (Euratom): *See—*
- Schaal, Alfred; LaHarrague, Philippe; and Denis, Rene, 4,689,612, Cl. 340-572.000.

Communication Devices, Inc.: *See—*
- Kelly, Robert J.; and Kelly, Tadhg, 4,710,929, Cl. 371-22.000.

Communication Equipment & Service Corp.: *See—*
- Lloyd, Floyd R., 4,666,116, Cl. 248-228.000.

Communications Equipment and Engineering Co.: *See—*
- Clark, Robert A., Jr., 4,638,121, Cl. 379-145.000.
- Clark, Robert A., Jr.; and Brussels, Jay D., 4,672,661, Cl. 379-144.000.

Communications Satellite Corporation: *See—*
- Assal, Francois T.; Berman, Arnold L.; and Potukuchi, Janaki R., 4,637,017, Cl. 370-104.000.
- Gelier, Bernard D.; and Zaghloul, Amir I., 4,636,753, Cl. 333-26.000.
- Horna, Otakar A.; Stennett, Edwin A.; and El-Mokadem, Ferial T., 4,645,883, Cl. 379-406.000.
- Matthews, David, 4,713,630, Cl. 331-4.000.

Communications Systems, Inc.: *See—*
- Meyer, Daniel, 4,700,384, Cl. 379-438.000.

Communications Technology Corporation: *See—*
- Butler, Myron C.; Hilligoss, William R.; and Hilligoss, Lawrence O., 4,639,557, Cl. 379-29.000.
- Butler, Myron C.; Hilligoss, Lawrence O.; and Hilligoss, William R., 4,661,969, Cl. 379-1.000.
- Hilligoss, Lawrence O.; and Hilligoss, William R., 4,706,271, Cl. 379-49.000.

Communications Test Design, Inc.: *See—*
- Parsons, Donald F.; Parsons, Gerald J.; Greenwald, Brian D.; and Forsythe, Elizabeth A., 4,670,897, Cl. 379-10.000.
- Parsons, Donald F., 4,692,939, Cl. 379-16.000.

Communications Transfer Corp.: *See—*
- Kaplan, Gary M.; Karau, Robert T.; Winney, Norman E., Jr.; and Brader, David G., 4,640,413, Cl. 206-232.000.

Community of Jesus, Inc.: *See—*
- Taylor, Cynthia L.; and Nash, Judith E. M., 4,693,289, Cl. 150-52.00R.

Comolli, Severino. Strap lock for suitcases, bags, or the like. 4,685,315, 8-11-87, Cl. 70-68.000.
Compact Energy Limited: *See—*
Palmer, Malcolm G., 4,635,554, Cl. 102-416.000.
Compact Spindle Bearing Corporation: *See—*
Phillips, Edward H., 4,676,649, Cl. 356-401.000.
Phillips, Edward H., 4,704,027, Cl. 355-43.000.
Compagnia di Ricerca Chimica S.p.A.: *See—*
Miccoli, Pietro; and Decorte, Enio, 4,704,361, Cl. 435-188.000.
Compagnie de Materiel de Micrographie "C.M.M.": *See—*
Gresse, Herve R.; and Carn, Annick R., 4,641,919, Cl. 350-138.000.
Compagnie d'Electronique et de Piezo-Electricite: *See—*
Avila, Gerardo; and Cerez, Pierre, 4,684,900, Cl. 331-3.000.
Berte , Marc; Bidard, Louis; and Lechopier, Serge, 4,656,707, Cl. 29-25.350.
Chauvin, Jacques; and Canzian, Patrice, 4,646,034, Cl. 331-116.00R.
D'Albaret, Bertrand; and Colombani, Antoine, 4,714,906, Cl. 333-202.000.
Debaisieux, Andre; and Aubry, Jean P., 4,686,324, Cl. 174-17.050.
Compagnie des Transmissions Mecaniques Sedis: *See—*
Dupoyet, Guy, 4,642,078, Cl. 474-206.000.
Leroux, Alain; Fourtet, Jean P.; Hennard, Jean; and Trouillet, Andre, 4,642,018, Cl. 414-502.000.
Sosson, Pierre, 4,650,194, Cl. 277-4.000.
Compagnie Deutsch: *See—*
Vantouroux, Patrick, 4,666,325, Cl. 403-13.000.
Compagnie d'Informatique Militaire, Spatiale et Aeronautique: *See—*
Val, Christian; Pinel, Joseph; and Gibod, Yves B., 4,639,826, Cl. 361-272.000.
Val, Christian, 4,654,694, Cl. 357-74.000.
Compagnie Europeenne de Composants Electroniques LCC: *See—*
Bernard, Gilles; and Delalande, Francois, 4,715,118, Cl. 29-856.000.
Fonfria, Robert; Risbet, Marie P.; and Zattara, Jean L., 4,696,082, Cl. 29-25.420.
Mouries, Gerard, 4,685,027, Cl. 361-308.000.
Compagnie Francaise de Produits Industriels: *See—*
Schapira, Joseph; Vincent, Jacques; Chaillou, Daniel; and Schild, Jacques, 4,666,613, Cl. 252-8.511.
Schapira, Joseph; Ken, Victor; Hoessler, Christian; Cot, Louis; Durand, Jean-Henri; and Pelletier, Patrice, 4,668,307, Cl. 148-6.15Z.
Schapira, Joseph; Ken, Victor; Duboys, Francois-Joseph; and Regnard, Patrick, 4,670,066, Cl. 148-6.15Z.
Schapira, Joseph; Ken, Victor; Thery, Denis; and Jelodin, Stephane, 4,678,519, Cl. 148-6.15Z.
Compagnie Francaise de Raffinage: *See—*
Devanneaux, Jacques; Gallez, Jean-Paul; and Mariette, Laurent, 4,677,093, Cl. 502-220.000.
Compagnie Francaise del Isolants: *See—*
Grand, Guy C., 4,666,229, Cl. 339-104.000.
Compagnie Francaise d'Electronique Medicale International SA (C.O.F.R.E.M. International SA): *See—*
Renault, Joel E., 4,671,286, Cl. 128-422.000.
Compagnie Francaise des Petroles: *See—*
Jegousse, Michel; and Le Hir, Yves, 4,687,378, Cl. 405-171.000.
Martin, Jean-Pierre H.; Pozzi, Jean-Pierre A.; and Despax, Damien M., 4,646,025, Cl. 324-346.000.
Raoult, Jean-Jacques, 4,706,225, Cl. 367-57.000.
Vidal, Jean E.; and Serio, Andre L., 4,671,704, Cl. 405-195.000.
Compagnie Francaise d'Etudes et de Construction "Technip": *See—*
Paradowski, Henri; Parfait, Herve; Castel, Joelle; and Vasseur, Alain, 4,689,063, Cl. 62-28.000.
Paradowski, Henri; Castel, Joelle H.; and Parfait, Herve B., 4,690,702, Cl. 62-23.000.
Compagnie Francaise d'Exploitation de Marques-Cofrem: *See—*
Bourgeon, Michel, 4,688,587, Cl. 137-2.000.
Compagnie Generale d'Automatisme CGA-HBS: *See—*
Courjaret, Francois; Del Fabbro, Gilbert; Devic, Jean-Noel; Divoux, Michel; Forella, Guy; Hamant, Jean-Pierre; Tubiana, Dominique; and Pavie, Claude, 4,701,094, Cl. 414-330.000.
Simonin, Marcel; Garbe, Bernard; and Carron, Alain, 4,640,047, Cl. 49-47.000.
Compagnie Generale de Geophysique: *See—*
Cretin, Jacques; Beauducel, Claude; Rudaz, Jean; and Gonzalez, Pierre, 4,636,992, Cl. 367-20.000.
Cretin, Jacques; Rudaz, Jean; and Gonzalez, Pierre, 4,644,506, Cl. 367-19.000.
Scott, A. Carlisle; Clayton, Jan E.; and Garnier, Jacques, 4,713,775, Cl. 364-513.000.
Therond, Jean-Francois; and Cretin, Jacques, 4,669,060, Cl. 364-900.000.
Vannier, Serge; Garotta, Robert; Lozes, Andre; and Vidal, Jean C., 4,636,956, Cl. 364-421.000.
Compagnie Generale de Material Orthopedique: *See—*
Pecheux, Jean-Claude R., 4,679,548, Cl. 128-26.000.
Compagnie Generale de Participations, S.A.: *See—*
Monestier, Jacques, 4,685,929, Cl. 623-64.000.
Compagnie Generale d'Electricite: *See—*
Belouet, Christian, 4,695,480, Cl. 437-225.000.
Brunet, Henri; Mabru, Michel; and Gastaud, Michel, 4,706,257, Cl. 372-88.000.
Duchet, Christian; and Martin, Rene , 4,683,448, Cl. 332-7.510.
Galaj, Stanislas, 4,647,376, Cl. 210-297.000.
Galaj, Stanislas, 4,708,801, Cl. 210-636.000.
Huet, Daniel; and Lambert, Marc, 4,699,083, Cl. 118-719.000.
Marcoux, Guy, 4,670,752, Cl. 340-721.000.
Robieux, Jean, 4,710,914, Cl. 370-3.000.
Compagnie Generale des Etablissements Michelin: *See—*
Berillon, Jean-Bernard; Daulon, Jean-Marc; and Maurel, Jean-Philippe, 4,667,720, Cl. 152-501.000.
Charvet, Jean-Louis; and Garcia, Christian, 4,644,989, Cl. 152-451.000.
Charvet, Jean-Louis, 4,709,544, Cl. 57-218.000.
Chateau, Fernand, 4,689,942, Cl. 57-58.360.
Dosjoub, Andre; and Myatt, David, 4,703,650, Cl. 73-146.500.
Masclaux, Pierre, 4,700,765, Cl. 152-545.000.
Mioche, Robert, 4,663,100, Cl. 264-158.000.
Tournier, Jean-Louis, 4,634,488, Cl. 156-285.000.
Compagnie Generale des Matieres Nucleaires (Cogema): *See—*
Andrieu, Guy; Blanchard, Jean-Marc; and Sourrouille, Michel, 4,664,477, Cl. 356-316.000.
Compagnie Gervais Danone: *See—*
Berthet, Maurice, 4,690,281, Cl. 206-597.000.
Guittard, Christine; and Salou, Catherine, 4,650,683, Cl. 426-103.000.
Compagnie Industrielle de Mecanismes en abrege C.I.M.: *See—*
Bernard, Vincent, 4,664,430, Cl. 292-201.000.
Canadas, Jean C., 4,685,723, Cl. 296-97.00H.
Chevance, Claude; and Pebre, Thierry, 4,657,523, Cl. 474-101.000.
Grandjean, Richard, 4,712,817, Cl. 292-336.300.
Pebre, Thierry, 4,667,991, Cl. 292-201.000.
Periou, Pierre, 4,683,995, Cl. 192-8.00C.
Periou, Pierru, 4,699,017, Cl. 74-425.000.
Compagnie Industrielle de Tubes et Lamps Electriques Citel: *See—*
Guichard, Francois M., 4,654,619, Cl. 337-32.000.
Compagnie Industrielle des Lasers Cilas Alcatel: *See—*
Beauperc, Didier; and Helias, Guy, 4,677,638, Cl. 372-87.000.
Jano, Patrice; and Tron, Michele, 4,634,271, Cl. 356-5.000.
Compagnie Industrielle des Telecommunications Cit-Alcatel: *See—*
Arnould, Emmanuel; and Dugre, Jean-Pierre, 4,675,836, Cl. 364-725.000.
Arnould, Emmanuel; and Dugre, Jean-Pierre, 4,679,163, Cl. 364-725.000.
Boirat, Robert; Faugeras, Philippe; Haux, Denis; and Mimeur, Jacques, 4,653,849, Cl. 350-96.220.
Boirat, Robert; Faugeras, Philippe; Haux, Denis; and Mimeur, Jacques, 4,653,850, Cl. 350-96.220.
Canteloup, Jean, 4,676,644, Cl. 356-351.000.
Coppens, Christian; Perron, Gilbert; and Pouillard, Jean, 4,685,100, Cl. 370-58.000.
Evrard, Robert, 4,644,161, Cl. 250-296.000.
Faugeras, Philippe; and Tribet, Daniel, 4,656,350, Cl. 250-209.000.
Henaff, Bernard, 4,713,805, Cl. 370-85.000.
Jurczyszyn, Michel; and Marchand, Michel, 4,701,013, Cl. 350-96.200.
Kaczerowski, Andre, 4,689,783, Cl. 370-56.000.
Lacroix, Jean-Claude; Franco, Pierre; Le Gall, Stephane; Bourret, Gerard; and Pochet, Jacques, 4,677,644, Cl. 375-5.000.
Lacroix, Jean-Claude; Franco, Pierre; Le Gall, Stephane; Bourret, Gerard; and Pochet, Jacques, 4,689,790, Cl. 370-110.100.
Le Mouel, Bernard; Le Bescont, Herve ; and Le Meur, Jean-Paul, 4,682,334, Cl. 371-55.000.
Onno, Guy; and Jaouen, Jean-Yves, 4,667,320, Cl. 370-58.000.
Playe, Patrice, 4,636,816, Cl. 346-155.000.
Raes, Marc, 4,636,652, Cl. 307-141.000.
Surie, Serge, 4,675,886, Cl. 375-116.000.
Compagnie Internationale pour l'Informatique Cii-Honeywell Bull (Societe Anonyme): *See—*
Herve, Robert J. L. A., 4,638,120, Cl. 178-22.080.
Mollier, Jean H.; and Saada, Charles J., 4,656,474, Cl. 380-23.000.
Compagnie Lyonnaise de Transmissions Optiques, S.A.: *See—*
Gerault, Patrice, 4,666,457, Cl. 65-11.100.
Le Sergent, Christian; and Drouart, Alain, 4,676,820, Cl. 65-3.120.
Oguey, Claude; Jamet, Daniel; and Berreby, Alain, 4,645,294, Cl. 350-96.150.
Compagnone nee Chatenay, Catherine M. Retractable folding chair. 4,652,046, 3-24-87, Cl. 297-15.000.
Compagnucci, Rossano; and Masera, Ercole, to Ferriere Nord SpA; and Siro SpA. Reel to wind packages of wire. 4,679,746, 7-14-87, Cl. 242-77.200.
Compair Broomwade Limited: *See—*
Hough, David; Morris, Sidney J.; and Barber, Anthony D., 4,636,156, Cl. 418-201.000.
Compak/Webcor Manufacturing Packaging Co.: *See—*
Rikard, Luther O.; and Blackburn, Mark A., 4,660,752, Cl. 226-95.000.
Compania Espanola de Petroleos, S.A.: *See—*
Elia De Miguel, Maria-Fe; Miro Roig, Pedro; and Pares Olivet, Eulalia, 4,642,288, Cl. 435-99.000.
Compania Telefonica Nacional de Espana, S.A.: *See—*
Manjarres, Jesus, 4,649,534, Cl. 370-60.000.
Comparetti, Joseph. Flea zapper. 4,653,433, 3-31-87, Cl. 119-159.000.
Comparetto, John E. Transparent-translucent fluidic head protector. 4,663,785, 5-12-87, Cl. 2-413.000.
Comparetto, John E. Electronic guidance for bone wedge excision. 4,664,102, 5-12-87, Cl. 128-92.0VY.
Comparetto, John E. Arcuate bone cutter and wedge guide system. 4,708,133, 11-24-87, Cl. 128-92.0VY.
Comparon, Jean-Daniel. Automatic aeration window. 4,702,157, 10-27-87, Cl. 98-97.000.
Compat Aktiengesellschaft, Firma: *See—*
Sauder, Karl, 4,696,085, Cl. 29-237.000.

Comper, Louis F.: and Scheiderich, Robert F., to Goodyear Tire & Rubber Company, The. Surface-treated tire curing bladder, treatment composition therefore and method for curing tires. 4,636,407, 1-13-87, Cl. 427-133.000.
Compo Industries, Inc.: *See—*
  Slosberg, David K.: and Nowell, Gilbert S., 4,689,256, Cl. 428-95.000.
  Slosberg, David K.: and Nowell, Gilbert S., 4,689,258, Cl. 428-141.000.
  Slosberg, David K.: and Nowell, Gilbert S., 4,710,415, Cl. 428-48.000.
Composit System S.r.l.: *See—*
  Simone, Giovanni; and Orsi, Franco, 4,669,908, Cl. 403-170.000.
Composite Container Corporation: *See—*
  Bonis, Laszlo J.; Courville, George V.; and Opland, Samuel, 4,649,007, Cl. 264-148.000.
Composites Aquitaine S.A.: *See—*
  Chabrol, Jean-Jacques; and Lambert, Jean-Pierre, 4,678,233, Cl. 297-429.000.
  Charbrol, Jean-Jacques; and Lambert, Jean-Pierre, 4,712,830, Cl. 297-42.000.
Compression Labs, Inc.: *See—*
  Chen, Wen-hsiung; and Klenke, Daniel J., 4,698,672, Cl. 358-136.000.
  Chen, Wen-hsiung; Elliott, James P.; Newell, Robert E. G.; Nichols, Ralph E.; and Rackett, Albert E., 4,704,628, Cl. 358-136.000.
  Wallis, Robert H.; and Pratt, William K., 4,710,813, Cl. 358-136.000.
Compressor Controls Corp.: *See—*
  Staroselsky, Naum; and Mirsky, Saul, 4,640,665, Cl. 415-1.000.
Comptech, Incorporated: *See—*
  Slabaugh, Edward J., 4,650,064, Cl. 198-631.000.
Compton, Diana R.: *See—*
  Fulkerson, Emmet M.; Somers, Ralph M.; and Compton, Diana R., 4,695,721, Cl. 250-234.000.
Compton, Peter M., to Tektronix, Inc. Staggered ground-plane microstrip transmission line. 4,680,557, 7-14-87, Cl. 333-1.000.
Compton, Ronald E., to Cross Company, The. CNC turning machine. 4,653,360, 3-31-87, Cl. 82-18.000.
Compton, Russell A.; Hinshaw, Waldo S.; and Kramer, David M., to Technicare Corporation. Offset gradient fields in nuclear magnetic resonance imaging systems. 4,636,728, 1-13-87, Cl. 324-309.000.
Compton, Russell A.; Keller, John T.; McBride, Thomas R.; and Kramer, David M., to Technicare Corporation. Phase sensitive detection in multislice magnetic resonance imaging systems. 4,673,880, 6-16-87 Cl. 324-309.000.
Compton, Russell A.: *See—*
  Kramer, David M.; Yeung, Hong-Ning; and Compton, Russell A., 4,665,367, Cl. 324-309.000.
  Kramer, David M.; Compton, Russell A.; Strenk, Lawrence M.; and Murdoch, James B., 4,695,800, Cl. 324-309.000.
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Compur-Electronic GmbH: *See—*
  Barry, Jurgen, 4,636,082, Cl. 356-446.000.
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CompuSonics Corporation: *See—*
  Schwartz, David M., 4,636,876, Cl. 360-32.000.
Compusonics, Inc.: *See—*
  Silverman, Stephen E., 4,675,904, Cl. 381-41.000.
CompuSonics Video Corporation: *See—*
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  Hanazono, Masanobu; Hara, Shinichi; Akiyama, Hirosi; Hayashi, Masaaki; Saitoo, Harunobu; and Kurisu, Takumi, 4,685,014, Cl. 360-126.000.
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  Krieger, Charles F.; Schultz, Wilbur L.; and Kong, Robert L., 4,667,293, Cl. 364-409.000.
Computer Graphics Laboratories, Inc.: *See—*
  Maine, Stephen; Harrower, Duncan; and Mammen, Abraham, 4,700,181, Cl. 340-747.000.
Computer Information System, Inc.: *See—*
  Gruet, Victor B., 4,701,003, Cl. 439-680.000.
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  Aspervall, Roland; and Jareke, Bo, 4,669,358, Cl. 91-51.000.
Computer Memories, Incorporated: *See—*
  Nazarian, Ara W.; and Stupeck, Donald G., 4,685,007, Cl. 360-78.000.
Computer Optical Products, Inc.: *See—*
  Weber, Otto K.; and Rhee, Sang S., 4,697,077, Cl. 250-231.0SE.
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  Minkler, Jackson D., II, 4,712,174, Cl. 364-200.000.
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  Catiller, Robert D.; Faivre, John D.; and Rakpongs, Fah, 4,713,608, Cl. 324-142.000.
Computer Security Corporation: *See—*
  Cairns, John P., 4,636,590, Cl. 379-386.000.
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  Weisshaar, Bernhard P.; Kolnick, Frank C.; Kun, Andrew I.; and Mansfield, Bruce M., 4,694,396, Cl. 364-300.000.
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  Stein, Willy, 4,678,197, Cl. 280-80.00R.
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  Miron, William L., 4,641,868, Cl. 292-336.300.
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Comroe, Richard A.; Borras, Jaime A.; Browand, Wayne H.; Ramos, Ozzie F.; Kozlowski, Ted A.; Mitchell, Timothy A.; and Ekl, Randy L., to Motorola, Inc. Serial link contention method. 4,667,191, 5-19-87, Cl. 340-825.500.
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Comstock, Daniel L.: *See—*
  Hsiung, Andrew K.; Comstock, Daniel L.; and Hagen, Robert D., 4,670,150, Cl. 210-636.000.
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Comstock, Robert J.; and Sabol, George P., to Westinghouse Electric Corp. Method for monitoring the crystallographic texture of metallic tubes by use of X-ray diffraction. 4,715,053, 12-22-87, Cl. 378-73.000.
Comstock, Todd M., to Grand Royalties, Ltd. Candle apparatus. 4,693,681, 9-15-87, Cl. 431-324.000.
Comstock, Wayne P.: *See—*
  Barber, Gerald L.; and Comstock, Wayne P., 4,652,041, Cl. 296-171.000.
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Comtech Research Unit Limited: *See—*
  Humberstone, Victor C., 4,670,364, Cl. 430-5.000.
Comtois, Patrick; Ingrain, Raymond; Moreau, Luc; and Paggi, Serge, to La Telemecanique Electrique. Protective switch. 4,668,926, 5-26-87, Cl. 335-21.000.
Comtois, Patrick: *See—*
  Belbel, Elie; Lauraire, Michel; Moreau, Luc; Lemarquand, Pierre; Paggi, Serge; and Comtois, Patrick, 4,647,741, Cl. 200-151.000.
Comurhex: *See—*
  Bachelard, Roland; and Joubert, Philippe, 4,687,601, Cl. 252-638.000.
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Con/Span Culvert Systems, Inc.: *See—*
  Lockwood, William D., 4,687,371, Cl. 405-125.000.
Con-Vey/Keystone, Inc.: *See—*
  Jacobsen, Marvin A., 4,640,655, Cl. 414-119.000.
Conacher, Ian D.: *See—*
  Morritt, Graham N.; Paes, Malvolio L.; Conacher, Ian D.; Gutridge, John R.; and Snellgrove, Timothy R., 4,648,386, Cl. 128-4.000.
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  Gehrig, Thomas C.; and Mortemore, David W., 4,663,178, Cl. 426-583.000.
  Kirn, Jeffrey F.; and Connaughton, James M., Jr., 4,710,391, Cl. 426-289.000.
  Steadman, James M., 4,674,633, Cl. 206-491.000.
Conair Corporation: *See—*
  Doyle, Edward J., 4,651,453, Cl. 38-77.800.
  Lindsey, Frank; and Walkley, Charles, 4,669,610, Cl. 206-320.000.
  Yau, Yuk M., 4,693,854, Cl. 261-84.000.
Conant, Curtis T., to American Magnetics Corporation. Apparatus for sensing and/or writing information on cards, passports and checks and the like. 4,692,602, 9-8-87, Cl. 235-446.000.
Conant, Louis A.; Bolton, Wilbur M.; and Wilson, James E., to Intertec Associates Inc. Plastic laboratory condenser. 4,678,028, 7-7-87, Cl. 165-72.000.
Conard, Wendell R.: *See—*
  Hayes, Robert A.; and Conard, Wendell R., 4,713,409, Cl. 524-518.000.
Conaway, Douglas E.; and Trammell, Harold L., Jr., to Ranco Electronics Division. Toggle electrical switch. 4,675,540, 6-23-87, Cl. 307-115.000.
Conaway, Robert M., to Vital Force, Inc. Method for preservation and storage of viable biological materials at cryogenic temperatures. 4,688,387, 8-25-87, Cl. 62-78.000.
Conax Buffalo Corporation: *See—*
  Randazzo, Matthew J., 4,687,293, Cl. 350-96.230.
Conax Florida Corporation: *See—*
  Miller, Francis M., 4,680,537, Cl. 324-500.000.
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Conboy, Leo W., to Ford Aerospace & Communications Corporation. High frequency, wide range FIR filter. 4,691,293, 9-1-87, Cl. 364-724.000.
Conboy, Michael R., to Western Geophysical Company of America. Ring paravane. 4,676,183, 6-30-87, Cl. 114-245.000.

Conboy, Stewart J.; and Kish, Robert J., to D. W. Zimmerman Mfg., Inc. Apparatus for handling objects. 4,708,574, 11-24-87, Cl. 414-591.000.
Conbraco Industries, Inc.: *See—*
  Tenhengel, Edwin L., 4,669,497, Cl. 137-218.000.
Concari, Severino: *See—*
  Cantello, Giuseppe; and Concari, Severino, 4,683,504, Cl. 360-78.000.
Concast AG: *See—*
  Kumagai, Ken, 4,640,338, Cl. 164-448.000.
Concast Service Union AG: *See—*
  Willim, Fritz, 4,648,439, Cl. 164-480.000.
Concast Standard AG: *See—*
  Gloor, Hans; and Muller, Eduard, 4,655,237, Cl. 137-13.000.
  Heinemann, Wilfried; Gabriel, Thomas; Reimann, Peter; Kunzi, Hans-Ulrich; and Guntherodt, Hans-Joachim, 4,650,618, Cl. 264-22.000.
Concept Communications, Inc.: *See—*
  Chandler, Van S.; and Arnstein, Robert A., 4,695,883, Cl. 358-138.000.
Concept Engineering and Design Corporation: *See—*
  Hahn, Jerome S., 4,693,439, Cl. 248-37.600.
Concept, Inc.: *See—*
  Bays, F. Barry, 4,644,951, Cl. 128-305.000.
  Ector, W. Lane, Jr., 4,658,816, Cl. 128-303.100.
  Terry, Richard N., 4,675,007, Cl. 604-283.000.
  Trott, Arthur F., 4,646,738, Cl. 128-305.000.
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  Johnson, Theodore D., 4,698,059, Cl. 604-270.000.
Concordia, Joseph J.; and Hall, Donald R., to Herzog-Hart Corporation. Gas-liquid reactor and method for gas-liquid mixing. 4,683,122, 7-28-87, Cl. 422-227.000.
Concurrent Computer Corporation: *See—*
  Gilanyi, Robert A.; and Schmitt, Ralph H., 4,716,525, Cl. 364-200.000.
  Hansel, Allen; Centofanti, Ermand; and Natarajan, Thiagarajan, 4,694,194, Cl. 307-66.000.
  Hodge, James E., 4,636,944, Cl. 364-200.000.
  Hodge, James E.; and Yeager, Kenneth C., 4,653,019, Cl. 364-900.000.
Concurrent Logic, Inc.: *See—*
  Furtek, Frederick C., 4,700,187, Cl. 340-825.830.
Conde, James C., to Babcock & Wilcox Company, The. Air heater seal frame support link. 4,669,531, 6-2-87, Cl. 165-4.000.
Conder, Philip C.; Jenkins, Richard M.; and Redding, James R., to United Kingdom of Great Britain and Northern Ireland, The Secretary of State for Defence in Her Britannic Majesty's Government of the. Method of making a ceramic evacuatable enclosure. 4,662,958, 5-5-87, Cl. 156-89.000.
Condito, Vincent A.: *See—*
  Harrison, Joel N.; Condito, Vincent A.; Graham, Randolph H.; Nixon, Brian J.; and Simonsen, Richard C., 4,639,798, Cl. 360-73.000.
Condolios, Elie, to Alsthom-Atlantique. Sludge belt apparatus for clarifying liquid charged with solid matter. 4,647,372, 3-3-87, Cl. 210-207.000.
Condolios, Elie, to Alsthom. Two-stage apparatus for clarifying liquid charged with solid matter. 4,710,291, 12-1-87, Cl. 210-199.000.
Condon, Harry F. Handle with alternate tool orientation. 4,640,155, 2-3-87, Cl. 81-439.000.
Condon, James E.; and Shankland, Nicholas B., to Vapor Corporation. Door operating assembly. 4,653,227, 3-31-87, Cl. 49-110.000.
Condor, Inc.: *See—*
  Ingman, Thomas M., 4,658,345, Cl. 363-143.000.
Condor Pacific Industries, Inc.: *See—*
  Hoffman, George J., 4,696,112, Cl. 33-304.000.
Condor-Werk Gebr. Frede GmbH & Co. KG: *See—*
  Frede, Dieter, 4,692,576, Cl. 200-84.00R.
Conducta Gesellschaft fur Mess-und Regeltechnik mbH & Co.: *See—*
  Jackle, Heiner G., 4,686,011, Cl. 204-1.00T.
  Stellmacher, Klaus, 4,657,657, Cl. 204-400.000.
Conductive Containers, Inc.: *See—*
  Ohlbach, Ralph C., 4,684,020, Cl. 206-328.000.
  Ohlbach, Ralph C., 4,706,438, Cl. 53-410.000.
Condux International, Inc.: *See—*
  Promersberger, Jon, 4,687,365, Cl. 403-2.000.
Cone, Gail P.: *See—*
  Salmond, Kent A.; and Cone, Gail P., 4,677,613, Cl. 370-85.000.
Cone, Ivan H. Device for testing and calibrating treasure hunting metal detectors. 4,641,091, 2-3-87, Cl. 324-202.000.
Cone, Richard E.; and Paugstat, John F., to NCR Corporation. Quick-cleaning, scanning/weighing apparatus. 4,700,656, 10-20-87, Cl. 177-245.000.
Cone, Richard E.: *See—*
  Mergenthaler, Barry M.; King, Ronald J.; Kovats, Laszlo I., deceased; Taylor, James H., administrator; and Cone, Richard E., 4,656,344, Cl. 235-462.000.
Cone, Robert L. Liquid container with handle. 4,658,975, 4-21-87, Cl. 215-100.00A.
Conea, Christopher A.: *See—*
  Cristescu, Alex G.; and Conea, Christopher A., 4,709,463, Cl. 29-566.300.
Conelly, Elizabeth Y. Mobile clean-up device. 4,709,440, 12-1-87, Cl. 15-257.300.
Conero, Ronald S.; and Landis, Terry L., to Ivac Corporation. Optical flow sensor. 4,680,977, 7-21-87, Cl. 73-861.410.
Conetta, Thomas E.; Malherbe, Roger F.; and Winter, Roland A. E., to Ciba-Geigy Corporation. Substituted piperazinone light stabilizers. 4,650,870, 3-17-87, Cl. 544-357.000.
Coney, Charles H.; and Parsons, Theron E., to Eastman Kodak Company. Printing processes employing water dispersible inks. 4,704,309, 11-3-87, Cl. 427-258.000.
Coney Onkyo Company, Ltd.: *See—*
  Goda, Mamoru, 4,646,071, Cl. 340-693.000.
Coneys, Thomas A., to Teleflex Incorporated. Medical-surgical catheter. 4,657,024, 4-14-87, Cl. 128-658.000.
Confalone, Pasquale N.: *See—*
  Magolda, Ronald L.; Confalone, Pasquale N., and Johnson, Paul R., 4,702,864, Cl. 260-402.500.
Confalonieri, Carlo: *See—*
  Gatti, Gaetano; Oldani, Diego; Confalonieri, Carlo; and Gambini, Luciano, 4,675,311, Cl. 514-34.000.
Confer, Dennis L.; and Eaton, John W., to University of Minnesota, Regents of the. Method for the early diagnosis of bordetella diseases and kit therefor. 4,652,521, 3-24-87, Cl. 435-34.000.
Confessore, Fred: *See—*
  McNamara, Thomas F.; and Confessore, Fred, 4,711,851, Cl. 435-287.000.
Confidence Corporation: *See—*
  Krietemeier, Rickie P.; and Ross, Laurence W., 4,713,164, Cl. 204-400.000.
Conforti, Joseph A., to GTE Communication Systems Corporation. Combined analog/digital CCIS data transmitter/receiver circuit. 4,672,603, 6-9-87, Cl. 370-58.000.
Conforti, Joseph A., to GTE Communication Systems Corporation. Duplex controller synchronization circuit for processors which utilizes an address input. 4,674,036, 6-16-87, Cl. 364-200.000.
Conforti, Joseph A., to GTE Communication Systems Corporation. Circuit for CCIS data transfer between a CPU and a plurality of terminal equipment controllers. 4,713,793, 12-15-87, Cl. 364-900.000.
Conforto, Peter M.: *See—*
  Olsen, Peter C., Jr.; Conforto, Peter M.; Wolf, David L.; and Hudson, Donald R., 4,693,055, Cl. 53-443.000.
  Olsen, Peter C., Jr.; Conforto, Peter M.; Craighead, Jimmy R.; and Wolf, David L., 4,709,538, Cl. 53-566.000.
Congdon, John C.; Richter, Thomas A.; and Slachta, Joseph J., to Magnavox Government and Industrial Electronics Company. Extendible sonobuoy apparatus. 4,689,773, 8-25-87, Cl. 367-3.000.
Congdon, John C.; and Whitmore, Thomas A., to Magnavox Government and Industrial Electronics Company. Flexural disk resonant cavity transducer. 4,700,100, 10-13-87, Cl. 310-332.000.
Congdon, John C., to Magnavox Government and Industrial Electronics Company. Electroacoustic transducer. 4,706,229, 11-10-87, Cl. 367-159.000.
Conger, Stephen W., Sr. Dental polisher combining pressurized fluid and abrasive flow. 4,648,840, 3-10-87, Cl. 433-125.000.
Conigliaro, Anthony; St. Hilaire, Arthur; and De Yoreo, Sal G., to Armatron International, Inc. Shredder for leaves and other like yard and garden refuse. 4,682,740, 7-28-87, Cl. 241-282.100.
Conigliaro, Samuel J.: *See—*
  Conigliaro, Thomas S.; and Conigliaro, Samuel J., 4,689,603, Cl. 340-64.000.
Conigliaro, Thomas S.; and Conigliaro, Samuel J. Vehicle ignition and alarm system. 4,689,603, 8-25-87, Cl. 340-64.000.
Coniglione, Philip: *See—*
  Garbis, Danny; Chan, Joseph J.; Granata, Amadeo J.; Coniglione, Philip; Briglia, Thomas D.; and Laterza, Lawrence E., 4,659,400, Cl. 148-175.000.
Conitex, Inc.: *See—*
  Martinez, Antonio, 4,700,834, Cl. 206-388.000.
  Martinez, Antonio, 4,700,904, Cl. 242-18.00R.
Conjeevaram, Seshadri: *See—*
  Lin, Steve T.; Conjeevaram, Seshadri; and Henderson, Don J., 4,645,503, Cl. 623-16.000.
Conklin, Emmett D. Infinitely variable transmission and control apparatus therefor. 4,635,494, 1-13-87, Cl. 74-119.000.
Conklin, Harold A., Jr., to Baldwin Piano & Organ Company. Augmented bass hammer striking distance for pianos. 4,674,386, 6-23-87, Cl. 84-216.000.
Conlee, Janet K.; and Staten, Robert T. Device for insect control. 4,671,010, 6-9-87, Cl. 43-114.000.
Conley, Challie, to Hines, Emmett. Accessory for expanding the payload capacity of a forklift. 4,708,576, 11-24-87, Cl. 414-607.000.
Conley, Clyde C., to Conley, Patricia R., a part interest. Subplate for a low-voltage electric outlet. 4,673,235, 6-16-87, Cl. 439-536.000.
Conley, Gerald D.: *See—*
  Conley, John L.; Conley, Thomas L.; Conley, Gerald D.; and Davis, Howard L., 4,676,034, Cl. 52-11.000.
Conley, John L.; Conley, Thomas L.; Conley, Gerald D.; and Davis, Howard L., to Conley's Manufacturing & Sales. Roof structure. 4,676,034, 6-30-87, Cl. 52-11.000.
Conley, John L. Sheet gripping assembly. 4,694,543, 9-22-87, C 24-461.000.
Conley, John M.; and Bowen, Paul D. Cleaning device for paint rollers and brushes. 4,641,673, 2-10-87, Cl. 134-138.000.
Conley, Kenneth E.; and Stull, Thomas E., to Collins & Aikman Corporation. Extruded closed cell thermoplastic foam. 4,656,074, 4-7-87, Cl. 428-95.000.
Conley, Patricia R.: *See—*
  Conley, Clyde C., 4,673,235, Cl. 439-536.000.

onley, Ralph R.: *See—*
  Wetzler, Dallas G.; and Conley, Ralph R., 4,681,261, Cl. 239-265.190.

onley, Richard A., to Ortho Pharmaceutical Corporation. Process for the preparation of 6,7-dihydroxy-4-alkyl-2(1H) quinazolinone-1-propionic acids. 4,645,836, 2-24-87, Cl. 544-286.000.

onley, Richard A., to Ortho Pharmaceutical Corporation. Process for the preparation of 5,6-dialkoxyanthranilic acids. 4,658,054, 4-14-87, Cl. 562-453.000.

onley, Thomas L.: *See—*
  Conley, John L.; Conley, Thomas L.; Conley, Gerald D.; and Davis, Howard L., 4,676,034, Cl. 52-11.000.

onley, William F.: *See—*
  Berger, Robert E.; Crossman, Richard L.; and Conley, William F., 4,682,640, Cl. 1[illegible]-405.000.

onley's Manufacturing [illegible] Sales: *See—*
  Conley, John L.; Conley, Thomas L.; Conley, Gerald D.; and Davis, Howard L., 4,676,034, Cl. 52-11.000.

onlin Bros., Inc.: *See—*
  Kirkland, Alvin E., 4,675,912, Cl. 2-2.000.

onlogue, James H.; and Banker, Henry, to Hoof Products Co. Engine governor. 4,690,115, 9-1-87, Cl. 123-366.000.

onlon, Paul J., III: *See—*
  Hopp, Thomas P.; Bektesh, Susan L.; Conlon, Paul J., III; and March, Carl J., 4,703,004, Cl. 435-68.000.
  Urdal, David L.; March, Carl J.; Mochizuki, Diane Y.; and Conlon, Paul J., III. 4,658,018, Cl. 530-351.000.

onlon, Ralph D.: *See—*
  Helms, Charles C.; Conlon, Ralph D.; and Delany, Edward B., 4,678,917, Cl. 250-373.000.

onlon, Thomas R. Connector for structural systems. 4,640,572, 2-3-87, Cl. 339-252.00R.

onlon, Thomas W.: *See—*
  Asher, James; Tofield, Bruce C.; Wormald, Malcolm R.; Huxtable, George B.; and Conlon, Thomas W., 4,675,527, Cl. 250-393.000.

onMed Inc.: *See—*
  Abraham, William W.; and Majka, Edward H., 4,669,458, Cl. 128-133.000.

onn, David J.: *See—*
  Solomon, Daniel M.; Kaminski, James J.; and Conn, David J., 4,666,914, Cl. 514-267.000.

onn, James K.: *See—*
  Guler, Michael G.; Patel, Sharadchandra D.; Conn, James K.; and Foster, Marcus L., 4,688,325, Cl. 29-600.000.

Conn, Robin S. E.; and Karady, Sandor, to Merck & Co., Inc. Preparation of an enantiomer of a substituted fluorenyloxyacetic acid. 4,704,472, 11-3-87, Cl. 562-461.000.

Conn, Sidney H. Audible low-fuel alarm for propane fuel tank. 4,688,028, 8-18-87, Cl. 340-625.000.

nnan, Jean-Louis; and Huiban, Jean-Yves. Electrical disturbance protective device between a terminal and a telephone line. 4,679,115, 7-7-87, Cl. 361-119.000.

Connaught Laboratories, Inc.: *See—*
  Gordon, Lance K., 4,644,059, Cl. 536-1.100.

Connaught Laboratories Limited: *See—*
  Goosen, Mattheus F. A.; O'Shea, Geraldine M.; and Sun, Anthony M., 4,673,566, Cl. 424-19.000.
  Goosen, Mattheus F. A.; O'Shea, Geraldine M.; and Sun, Anthony M. F., 4,689,293, Cl. 435-1.000.
  Johnston, David; and Lawson, Kenneth F., 4,650,673, Cl. 424-84.000.

Connaughton, James M., Jr.: *See—*
  Kirn, Jeffrey F.; and Connaughton, James M., Jr., 4,710,391, Cl. 426-289.000.

Connaughty, Kenneth G.; and Olson, Gary P., to AG Systems, Inc. Chemical spray applicator. 4,650,124, 3-17-87, Cl. 239-708.000.

Conneally, Martin L., to Sears, Roebuck and Co. Tool fine adjustment mechanism. 4,696,213, 9-29-87, Cl. 83-438.000.

Connell, Brian P.: *See—*
  Brooks, Ralf M.; Connell, Brian P.; Sonnenburg, Dennis T.; and Pagowski, Stefan J., 4,712,113, Cl. 346-1.100.

Connell, David L.; and Gradwell, Anthony J., to Sandoz Ltd. Fluid loss control additives for oil-based well-working fluids. 4,671,883, 6-9-87, Cl. 252-8.515.

Connell, Eugene W.: *See—*
  Elkins, William; Connell, Eugene W.; and Short, Robert E., 4,691,762, Cl. 165-46.000.

Connell, G. A. Neville; and Godwin, Jimmy D., to Xerox Corporation. Apparatus using beam splitter cube with specific characteristics for reading information recorded in a magneto-optic medium. 4,638,470, 1-20-87, Cl. 369-13.000.

Connell, G. A. Neville: *See—*
  Popovic, Zoran D.; Sprague, Robert A.; and Connell, G. A. Neville, 4,689,291, Cl. 430-321.000.

Connell, John W.: *See—*
  Hergenrother, Paul M.; Bass, Robert G.; Sinsky, Mark S.; and Connell, John W., 4,663,483, Cl. 564-396.000.

Connell, Lawrence E.; and Webb, Ronald J., to Motorola, Inc. Differential CMOS comparator for switched capacitor applications. 4,710,724, 12-1-87, Cl. 330-9.000.

Connell, Ross M. Tanker safety system. 4,662,287, 5-5-87, Cl. 109-1.00S.

Connelly, Lawrence J.: *See—*
  Owen, David O.; and Connelly, Lawrence J., 4,713,222, Cl. 423-122.000.
  Richardson, Paul F.; Connelly, Lawrence J.; Fong, Dodd W.; and Kaesler, Ralph W., 4,704,209, Cl. 210-734.000.

Connelly, Roland L.; Willis, Robert F.; Phelan, Jeremy D.; and Nealen, Kathleen A., to Burlington Industries, Inc. Method and apparatus for inventory control to optimize usage of colored fabric. 4,688,178, 8-18-87, Cl. 364-470.000.

Connelly Skis, Inc.: *See—*
  Horne, Kenneth A., 4,715,416, Cl. 150-52.00R.

Conner, Anthony H.; River, Bryan H.; and Lorenz, Linda F., to United States of America, Agriculture. Wood veneer panels bonded with cellulose solvents. 4,686,140, 8-11-87, Cl. 428-342.000.

Conner, Donald E., to Mallinckrodt, Inc. Benzene sulfonate quaternary ammonium salts of organic sunscreen carboxylic acids. 4,680,144, 7-14-87, Cl. 260-501.150.

Conner, Edward. Opto electric combination lock. 4,637,235, 1-20-87, Cl. 70-277.000.

Conner, George W.; Donald, Raymond G.; and Cline, Ronald L., to Signetics Corporation. Method for manufacturing programmable read-only memory containing cells formed with opposing diodes. 4,694,566, 9-22-87, Cl. 437-48.000.

Conner, James M.; Harden, Daniel K.; and Genaro, Donald M., to Henry Dreyfuss Associates. Tampon system and method. 4,648,867, 3-10-87, Cl. 604-14.000.

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Conner, John P.; Mitchell, Terry; Miller, Craig; Vander Kooi, David L.; and Herringa, Donald, to Trendway Corporation. Modular storage units. 4,660,905, 4-28-87, Cl. 312-195.000.

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Conner, Randall C.; and Walworth, Van T., to American Cast Iron Pipe Company. Pipe joint assembly with snap ring and associated method. 4,643,466, 2-17-87, Cl. 285-321.000.

Conner, Randall C.; and Walworth, Van T., to American Cast Iron Pipe Company. Axially restrained pipe joint with improved locking ring structure. 4,685,708, 8-11-87, Cl. 285-374.000.

Conner, Trevor J.; and Jackson, Michael G., to De La Rue Systems Limited. Unstrapping apparatus. 4,660,818, 4-28-87, Cl. 270-1.100.

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  Murphy, Michael T.; and Connerney, William R., 4,654,887, Cl. 455-327.000.

Conners, John P., to AMCA International Corporation. Single bit storage and retrieval with transition intelligence. 4,688,191, 8-18-87, Cl. 364-900.000.

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  Cavender, Ralston R., Jr.; Connolly, Elizabeth S.; Powers, Dale R.; and Ritter, John E., 4,684,383, Cl. 65-3.120.

Connolly, James D. Static sieve feed control. 4,710,296, 12-1-87, Cl. 210-420.000.

Connolly, John C.; and Botez, Dan, to RCA Corporation. Method of making a double heterostructure laser. 4,642,143, 2-10-87, Cl. 148-171.000.

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Connolly, Mark S., to Du Pont de Nemours, E. I., and Company. Optically anisotropic melt forming aromatic copolyesters based on t-butylhydroquinone. 4,664,972, 5-12-87, Cl. 428-290.000.

Connolly, Richard S., to Tippins Machinery Co., Inc. Method of continuous casting and rolling strip. 4,675,974, 6-30-87, Cl. 29-527.700.

Connon, Helen A.; Gorski, Robert A.; Kenyon, William G.; and Yokozeki, Akimichi, to Du Pont de Nemours, E. I., and Company. Azeotropic compositions of trichlorotrifluoroethane, dichlorodifluoroethane and methanol/ethanol. 4,715,900, 12-29-87, Cl. 134-31.000.

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Connor, David T.; Cetenko, Wiaczeslaw A.; Unangst, Paul C.; and Johnson, Elizabeth A., to Warner-Lambert Company. Benzothiophenes and benzofurans and antiallergic use thereof. 4,703,053, 10-27-87, Cl. 514-382.000.

Connor, John T., to West Company, The. Bonded closure assembly. 4,664,277, 5-12-87, Cl. 215-249.000.

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  Jordan, Chalmer; Connor, Lee; and Lybarger, Robert, 4,682,381, Cl. 10-63.000.

Connor, Mark J.; Reinemuth, George H.; and Cleveland, Richard S., to Wickes Manufacturing Company. Self-aligning tool assembly for die shaping workpieces. 4,693,109, 9-15-87, Cl. 72-456.000.

Connor, Richard C.; and Rule, Dennis A., to United Kingdom of Great Britain and Northern Ireland, The Secretary of State for Defence in Her Britannic Majesty's Government of the. Under-bridge access assembly. 4,633,975, 1-6-87, Cl. 182-63.000.

- Connors, Grant R.: *See—*
  - Feilchenfeld, Michal M.; and Connors, Grant R., 4,711,757, Cl. 376-258.000.
- Connors, Herman J., Jr.; and Kramer, Francis A., to Westinghouse Electric Corp. Steam control valve with improved muffler portion. 4,705,071, 11-10-87, Cl. 137-625.300.
- Connors, Kevin G.: *See—*
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- Connors, Steven W.: *See—*
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- Conoco Inc.: *See—*
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  - Beck, Jeffrey L.; and Campbell, David W., 4,693,826, Cl. 210-512.100.
  - Burns, Virgil D.; and Martin, Albert E., 4,702,692, Cl. 431-346.000.
  - Casad, Burton M.; Soni, Yogendra; and Jurinak, Jeff J., 4,687,058, Cl. 166-263.000.
  - Chittineni, Chittibabu, 4,648,120, Cl. 382-54.000.
  - Cole, Jack H.; and Fair, Delbert W., 4,641,725, Cl. 181-119.000.
  - Cole, Jack H., 4,709,362, Cl. 367-189.000.
  - El-Saie, Ahmed A.; and Campbell, David W., 4,676,810, Cl. 55-203.000.
  - Fair, Delbert W., 4,705,137, Cl. 181-120.000.
  - Grimsley, R. LeRoy; and Gawel, Len J., 4,645,379, Cl. 405-210.000.
  - Harmon, Richard A.; and Wahl, Harry A., 4,662,440, Cl. 166-245.000.
  - Hunter, Andrew F., 4,660,677, Cl. 182-10.000.
  - Kypke, Dean A.; Hawley, Philip R.; Britton, Thomas N., II; and White, George J., 4,662,788, Cl. 405-204.000.
  - McClaflin, Gifford G.; and Yang, Kang, deceased, 4,668,408, Cl. 252-8.552.
  - McConaghy, James R., Jr., 4,698,147, Cl. 208-107.000.
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  - Murali, Jagannathan, 4,663,181, Cl. 427-34.000.
  - Murali, Jagannathan; and Buck, Erwin, 4,684,447, Cl. 204-38.500.
  - Newman, Bruce A., 4,713,168, Cl. 208-131.000.
  - Oates, Danny R., 4,714,233, Cl. 251-14.000.
  - Petree, Allen R., 4,669,555, Cl. 175-97.000.
  - Petry, Eston F.; and Riester, John B., 4,708,395, Cl. 299-17.000.
  - Powers, Maston L.; Dodson, Christopher J.; Moore, John S.; and Ghassemi, Farhad, 4,641,709, Cl. 166-252.000.
  - Royer, D. Jack, 4,693,321, Cl. 137-13.000.
  - Rutledge, Gerald D., 4,649,034, Cl. 423-244.000.
  - Sternberg, Ben K.; Dunster, Donald E.; and Honeycutt, Kenneth D., 4,642,570, Cl. 324-366.000.
  - White, Charles N.; and Hunter, Andrew F., 4,669,916, Cl. 405-224.000.
  - Williams, Mitchel E., 4,688,638, Cl. 166-250.000.
  - Yoon, Heeyoung, 4,670,238, Cl. 423-244.000.
- Conolly, Ralph I., to Rolls-Royce plc. Method for eliminating, or minimizing the effects of, defects in materials. 4,673,124, 6-16-87, Cl. 228-170.000.
- Conour, John F.: *See—*
  - Callies, Gerald A.; Albach, Eberhard R.; Conour, John F.; and Herrington, Richard A., 4,661,381, Cl. 427-255.000.
- Conoval, Paul. Writing input and dynamics regeneration device. 4,703,511, 10-27-87, Cl. 382-13.000.
- Conover, Gilbert; Minior, Thaddeus; and Willis, John P., to Ilex Corporation. Sensor having ion-selective electrodes. 4,713,165, 12-15-87, Cl. 204-403.000.
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  - Holt, Gary E.; Siehling, Mark B.; and Van Antwerp, Stanley R., 4,682,000, Cl. 219-116.000.
  - Thomsen, Paul M.; and Ciocan, Dan N., 4,700,218, Cl. 358-29.000.
- Conrad, Bernhard; and Tressl, Guenther, to Siemens Aktiengesellschaft. Apparatus for converting radiation image information carried by a storage layer into a television signal sequence. 4,692,813, 9-8-87, Cl. 358-294.000.
- Conrad, Douglas J.; Kennon, James L.; Macartney, Lawrence J.; and Scharf, Donald R., to Nordson Corporation. System for spray coating substrates. 4,635,585, 1-13-87, Cl. 118-316.000.
- Conrad, Elroy C. Heavy duty, stowable apparatus for supporting articles. 4,650,144, 3-17-87, Cl. 248-290.000.
- Conrad, George M.; and Smalley, Kenneth M., to Raytheon Company. High voltage solid state switch. 4,697,096, 9-29-87, Cl. 307-246.000.
- Conrad, Hans-Jurgen, to Robert Bosch GmbH. Mixing arrangement for a combustible gas mixture. 4,712,998, 12-15-87, Cl. 432-159.000.
- Conrad, Horst; Tobergte, Konrad; and Schulze, Rainer, to C. A. Weidmuller GmbH & Co. Component housing for electrical and electronic circuits. 4,707,563, 11-17-87, Cl. 174-50.000.
- Conrad Industries, Inc.: *See—*
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- Conrad, Kenneth C., to Westinghouse Electric Corp. Method and apparatus for installing free standing turbine blades. 4,711,007, 12-8-87, Cl. 29-156.80R.
- Conrad, Kenneth R.; and De Mercurio, Rudolph S. Segment height measuring device. 4,653,192, 3-31-87, Cl. 33-200.000.
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  - Wikelski, Karl W.; and Conrad, Michael S., 4,654,154, Cl. 252-11.000.
- Conrad, Neal D.: *See—*
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- Conrad, Peter G., to Sobstad Sailmakers, Inc. Structural sail with grid members. 4,702,190, 10-27-87, Cl. 114-103.000.
- Conrad, Peter G., to Sobstad Sailmakers, Inc. Composite thread line sails. 4,708,080, 11-24-87, Cl. 114-103.000.
- Conrad, Raymond W.: *See—*
  - Roberts, Thomas G.; Conrad, Raymond W.; Otto, William F.; and Honeycutt, Thomas E., 4,692,623, Cl. 250-349.000.
  - Roberts, Thomas G.; Conrad, Raymond W.; and Honeycutt, Thomas E., 4,707,133, Cl. 356-320.000.
- Conrad, Roddy M.: *See—*
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- Conrad, Rodney W., to Romed Corporation. Method and apparatus for automatic sampling of gases. 4,704,910, 11-10-87, Cl. 73-863.210.
- Conrad Scholtz AG: *See—*
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  - Nolte, Gunther, 4,681,503, Cl. 414-144.000.
- Conrad, Ulrich; Moser, Peter; and Gruber, Gerhard, to Daimler-Benz Aktiengesellschaft. Interhal combustion engine exhaust gas recycling arrangement. 4,640,256, 2-3-87, Cl. 123-568.000.
- Conrad, Ulrich; Grohn, Michael; and Moser, Peter, to Daimler-Benz Aktiengesellschaft. Connecting line between a compressor of an exhaust gas turbocharger flangedly connected at an exhaust gas manifold of an internal combustion engine and a suction pipe. 4,697,423, 10-6-87, Cl. 60-605.000.
- Conrad, Ulrich; Kellermann, Guenter; Breymayer, Angela; Klinker, Rolf; Schuldt, Oswald; Hoffmann, Rainer; and Fabian, Frank-Dietrich, to Daimler-Benz Aktiengesellschaft. Arrangement of a soot filter in the exhaust gas system of an internal combustion engine with an exhaust gas turbocharger. 4,709,548, 12-1-87, Cl. 60-280.000.
- Conrads, Norbert; Schiebel, Ulrich; and Kirchhoff, Rolf, to U.S. Philips Corporation. Printing apparatus and methods for compensating synchronization errors. 4,635,072, 1-6-87, Cl. 346-1.100.
- Conradty, Claudio; Zollner, Dieter; Lauterbach-Dammler, Inge; and Taube, Thomas, to Arc Technologies Systems Ltd. Disc means for an electrode for use in electric arc furnaces. 4,639,928, 1-27-87, Cl. 373-93.000.
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  - Koziol, Konrad; and Wenk, Erich, 4,661,232, Cl. 204-286.000.
  - Koziol, Konrad, 4,695,355, Cl. 204-252.000.
- Conradty Nurnberg GmbH & Co., KG: *See—*
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- Conroy, Gary M.; and Wursthorn, Karl R., to Morton Thiokol, Inc. Lubricant-stabilizer compositions for halogen-containing organic polymers and polymer compositions thereof. 4,696,754, 9-29-87, Cl. 252-40.500.
- Conroy, Gary M.: *See—*
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  - Mesch, Keith A.; and Conroy, Gary M., 4,681,907, Cl. 524-180.000.
- Conroy, John L., Sr., to Planetics Engineering, Inc. Gimballed conduit connector. 4,652,025, 3-24-87, Cl. 285-114.000.
- Conroy, Lawrence J.; and Hayden, Richard A., to General Motors Corporation. Linear type seat recliner. 4,669,781, 6-2-87, Cl. 297-355.000.
- Conroy, Terence J.: *See—*
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- Conroy, W. Patrick: *See—*
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- Conroy-Wass, Theodore R., to Hughes Aircraft Company. Quick-release multi-module terminating assembly. 4,713,014, 12-15-87, Cl. 439-67.000.
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- Consiglio Nazionale Delle Ricerche: *See—*
  - Antonini, Bruno; Borgnese, Camillo; D'Amico, Arnaldo; DeGasperis, Paolo; Paoletti, Antonio; Paroli, Paolo; Petrocco, Giovann Tucciarone, Aldo; and Scarinci, Fernando, 4,640,629, Cl. 374-178.000.
  - Baradel, Agostino; Guerriero, Renato; and Veronese, Giuseppe, 4,701,311, Cl. 423-87.000.
  - Bertini, Vincenzo; Marabini, Anna; De Munno, Angela; Barbaro Maria; and Pocci, Marco, 4,698,171, Cl. 252-60.000.
  - De Lucchi, Ottorino; Filippuzzi, Fabiola; Modena, Giorgio; and Camera, Ettore, 4,713,466, Cl. 549-464.000.
  - Li Bassi, Giuseppe; Cadona, Luciano; Nicora, Carlo; and Carlin Carlo, 4,672,079, Cl. 522-35.000.
  - Lora, Silvano; Minto, Francesco; DiMarco, Piergiulio; Giro, Gabriele; and Pezzin, Giovanni, 4,657,993, Cl. 525-538.000.
  - Russo, Vera; Sottini, Stefano; Righini, Giancarlo; and Trigan Silvana, 4,678,268, Cl. 350-96.180.
  - Silvestri, Giuseppe; Gambino, Salvatore; and Filardo, Giuseppe 4,708,780, Cl. 204-59.00R.

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Constable, Douglas W., to Eastman Kodak Company. Modification of color component video signals to compensate for decreasing white sensitivity of photographic element. 4,694,356, 9-15-87, Cl. 358-332.000.
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Constant, Eugene; Leroy, Yves; and Van De Velde, Jean-Claude, to Centre National de la Recherche Scientifique. Method and apparatus for measuring microwave noise. 4,677,988, 7-7-87, Cl. 128-736.000.
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Deike, Robert F., 4,648,609, Cl. 279-19.100.
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Colombo, Paolo; Conte, Ubaldo; and Reiner, Alberto, 4,681,755, Cl. 424-486.000.
Contech Construction Products Inc.: *See—*
Shade, James W.; and Higgs, Robert J., 4,702,502, Cl. 285-231.000.
Contempo Products, P. Herrli: *See—*
Herrli, Peter, 4,676,476, Cl. 251-9.000.
Conti, Allen C., to Arnco Corporation. System to control tension in a cable during underground placement. 4,692,063, 9-8-87, Cl. 405-177.000.
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Conti, Joseph A.: *See—*
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Bombardelli, Ezio; Gabetta, Bruno; and Conti, Marisa, 4,709,076, Cl. 560-55.000.
Conti Paoli & Meritex S.r.l.: *See—*
Riccitelli, Ivan, 4,697,440, Cl. 66-177.000.
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Conticelli, Carlo: *See—*
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Contin, Jose L., to MDC Vacuum Products Corporation. High vacuum gate valve having improved metal vacuum seal joint. 4,681,329, 7-21-87, Cl. 277-167.500.

- Continental Can Company, Inc.: *See—*
  - Hayward, Gary G., 4,662,154, Cl. 53-431.000.
  - Hekal, Ihab M., 4,693,390, Cl. 220-359.000.
  - Kehe, Alfred W.; and Fetters, Thomas T., 4,675,139, Cl. 264-26.000.
  - Kuster, Donald F.; and Herbst, Edward, 4,676,705, Cl. 410-80.000.
  - Mohr, Glenn R.; and Roth, Donald J., 4,707,213, Cl. 156-380.200.
  - Roth, Donald J., 4,693,391, Cl. 220-359.000.
  - Walter, John, 4,659,405, Cl. 156-69.000.
- Continental Conveyor & Equipment Co.: *See—*
  - Morrison, Thomas E., 4,643,300, Cl. 198-842.000.
- Continental Conveyor & Equipment Co., Inc.: *See—*
  - Bodovsky, Paul W.; and Rodgers, Donald H., 4,710,207, Cl. 55-290.000.
- Continental Disc Corporation: *See—*
  - Mozley, Robert M., 4,669,626, Cl. 220-89.00A.
- Continental Fibre Drum, Inc.: *See—*
  - Gordon, Gerald A., 4,666,041, Cl. 206-522.000.
- Continental Group, Inc., The: *See—*
  - Giggard, Earl D.; Khoury, Nick S.; and Terrien, Donald R., 4,676,392, Cl. 220-284.000.
  - Windstrup, Robert F.; Bodnar, Steven A.; and Larsen, B. Pershing, 4,650,412, Cl. 425-182.000.
- Continental Gummi-Werke Aktiengesellschaft: *See—*
  - Bernitz, Bernhard; Brodmann, Richard; and Hermann, Dietmar, 4,643,923, Cl. 428-31.000.
  - Bernitz, Bernhard; Brodmann, Richard; and Hermann, Dietmar, 4,698,193, Cl. 264-171.000.
  - Besche, Anton; Hecker, Rolf; and Schwarze, Klaus, 4,662,405, Cl. 138-125.000.
  - Besche, Anton; Osterling, Jost; and Schwarze, Klaus, 4,707,203, Cl. 156-85.000.
  - Drescher, Gunter; Fankhanel, Gerhard; and Gnirk, Wolfgang, 4,715,588, Cl. 267-122.000.
  - Eberhard, Gunter; and Heitzig, Jurgen, 4,650,169, Cl. 267-140.100.
  - Eberhard, Gunter; and Heitzig, Jurgen, 4,700,931, Cl. 267-35.000.
  - Ewald, Hans, 4,702,295, Cl. 157-1.000.
  - Gerloff, Klaus; Menell, Hans; Bark, Ludolf; Klopper, Friedrich; and de Vries, Gerhard, 4,666,392, Cl. 425-190.000.
  - Gerloff, Klaus; Ehlert, Dieter; and von der Wall, Klaus, 4,694,873, Cl. 152-380.000.
  - Heitzig, Jurgen, 4,673,169, Cl. 267-140.100.
  - Hermann, Dietmar; and Brodmann, Richard, 4,668,556, Cl. 428-122.000.
  - Hermann, Dietmar; and Walter, Siegfried, 4,701,376, Cl. 428-358.000.
  - Howind, Volker, 4,655,270, Cl. 152-380.000.
  - Menell, Hans; Ringhoff, Hubert; and Rump, Jurgen, 4,711,691, Cl. 156-415.000.
  - Paul, Helmut, 4,643,659, Cl. 425-131.100.
  - Pfeiffer, Hans-Dieter; Huinink, Heinrich; and Reese, Thorsten, 4,687,037, Cl. 152-209.00R.
  - Rach, Heinz-Dieter; Klose, Hans-Ulrich; and Frerichs, Udo, 4,635,697, Cl. 152-544.000.
  - Rach, Heinz-Dieter; and Frerichs, Udo, 4,696,333, Cl. 152-379.300.
  - Rohde, Dieter; and Praetorius, Siegfried, 4,671,333, Cl. 152-532.000.
  - Schallmeier, Gunter; and de Vries, Gerhard, 4,698,245, Cl. 428-33.000.
  - Specht, Hans; and Kase, Walter, 4,685,190, Cl. 29-452.000.
  - Thurow, Gerhard, 4,657,229, Cl. 267-64.270.
  - Umland, Henning; and Fricke, Gerhard, 4,696,753, Cl. 252-26.000.
- Continental Laser Corporation: *See—*
  - Jones, Ronald E.; and Peterson, Royal D., 4,694,462, Cl. 372-61.000.
  - Peterson, Royal D., and Jones, Ronald E., 4,656,640, Cl. 372-87.000.
- Continental Molding Corporation: *See—*
  - MacDonald, John B.; and McLinn, David E., 4,695,103, Cl. 312-18.000.
- Continental Packaging Company: *See—*
  - Marsella, Louis J.; and Mahajan, Gautam K., 4,704,180, Cl. 156-324.000.
- Continental Pet Technologies, Inc.: *See—*
  - Collette, Wayne N., 4,649,068, Cl. 428-35.000.
  - Kerins, Gerard J.; Collette, Wayne N.; Beck, Martin H.; Clark, Richard E.; Harry, Ieuan L.; Krishnakumar, Suppayan; Miller, Bryan H.; Nichols, Richard C.; Piccioli, David; Tacito, Louis D.; and Worsowicz, Eileene M., 4,665,682, Cl. 53-452.000.
  - Krishnakumar, Suppayan M.; and Nahill, Thomas E., 4,710,118, Cl. 425-130.000.
- Continental Pharma Inc.: *See—*
  - Lambelin, Georges E.; Roncucci, Romeo R.; Roba, Joseph; and Gillet, Claude L., 4,638,070, Cl. 549-23.000.
  - Roncucci, Romeo; Gillet, Claude L.; Cordi, Alexis H.; Martens, Mark A.; Roba, Joseph L.; Niebes, Paul J.; Lambelin, Georges E.; and Van Dorsser, William R., 4,639,468, Cl. 514-620.000.
- Continental Plastic Beverage Bottles, Inc.: *See—*
  - Miller, Bryan H., 4,667,384, Cl. 29-509.000.
- Continental Plastic Containers, Inc.: *See—*
  - Bartimes, George F.; and Blomquist, Leonard A., 4,637,600, Cl. 271-93.000.
- Continental Technology Corporation: *See—*
  - McQueen, Sidney J., 4,635,528, Cl. 89-14.300.
- Continental Thermal Design, Inc: *See—*
  - Ramus, Gary D.; and Ahnen, Christopher R., 4,666,677, Cl. 422-183.000.
- Continental White Cap, Inc.: *See—*
  - Moloney, John J., 4,705,183, Cl. 215-276.000.
- Continental-Wirt Electronics Corporation: *See—*
  - Worth, Sidney V., 4,669,801, Cl. 439-404.000.
  - Worth, Sidney V., 4,701,133, Cl. 439-13.000.
- Contini, Vincent: *See—*
  - Baudot, Claude; and Contini, Vincent, 4,644,708, Cl. 52-79.900.
- Continua International Continuous Casting S.p.A.: *See—*
  - Colombo, Piero, 4,633,933, Cl. 164-154.000.
  - Colombo, Piero; and Comelli, Daniele, 4,703,792, Cl. 164-442.000.
  - Klaucic, Luciano, 4,715,426, Cl. 164-426.000.
- Continuous Casting Systems Inc.: *See—*
  - Nettelbeck, Klaus; McVay, James D.; and Take, Hermann, 4,660,619, Cl. 164-455.000.
- Contitronix Inc.: *See—*
  - Shrime, George, 4,714,362, Cl. 400-144.200.
- Contois, Lawrence E.: *See—*
  - Ambro, Joseph H.; and Contois, Lawrence E., 4,657,831, Cl. 430-14.000.
  - Ng, Yee Seung; Contois, Lawrence E.; Mitchell, John D.; and Walling, James D., 4,686,163, Cl. 430-47.000.
- Contour Chair-Lounge Co., Inc.: *See—*
  - Chizek, Michael, 4,678,231, Cl. 297-329.000.
- Contour Roll Company: *See—*
  - Gutowski, Timothy A.; and Tucker, Merl T., 4,633,742, Cl. 83-13.000.
- Contoyonis, Peter, to Ammco Tools, Inc. Lathe spindle assembly. 4,643,055, 2-17-87, Cl. 82-30.000.
- Contoyonis, Peter, to Ammco Tools, Inc. Silencer band. 4,656,899, 4-14-87, Cl. 82-34.00R.
- Contra-Shear Holdings Limited: *See—*
  - Burgess, George, 4,661,252, Cl. 210-402.000.
- Contractor, Rashmikant M., to Du Pont de Nemours, E. I., and Company. Improved vapor phase catalytic oxidation of butane to maleic anhydride. 4,668,802, 5-26-87, Cl. 549-259.000.
- Contractual Services (Jersey) Ltd.: *See—*
  - Schijf, Hendrikus J., 4,644,724, Cl. 52-588.000.
  - Schijf, Hendrikus J., 4,644,725, Cl. 52-463.000.
- Contraves AG: *See—*
  - Frei, Urs; Richter, Harald; and Stait, Donald, 4,684,276, Cl. 400-630.000.
  - Heller, Rudolf, 4,684,088, Cl. 248-123.100.
  - Tschopp, Alexander; Gruenblat-Nordau, Claudy-Gabrielle; Huber, Beat; and Cogoli, Augusto, 4,680,266, Cl. 435-284.000.
  - Zemp, Georg, 4,667,730, Cl. 165-14.000.
  - Zemp, Georg, 4,671,344, Cl. 165-2.000.
  - Zemp, Georg, 4,687,051, Cl. 165-61.000.
- Contraves Italiana S.p.A.: *See—*
  - Alia, Francesco; and Ruggerini, Gianfranco, 4,689,630, Cl. 343-779.000.
- Contrawl Limited: *See—*
  - Newbury, Arthur D., 4,666,356, Cl. 414-30.000.
- Contreras, Joseph P., Sr. Hinge, and boss assembly for closure members. 4,693,392, 9-15-87, Cl. 220-343.000.
- Contri, Robert F., to John Zink Company. Electronic pressing iron. 4,661,685, 4-28-87, Cl. 219-250.000.
- Contri, Robert F.; and Hemrich, William R., to John Zink Company. Dual temperature electric curling iron having a safety shut-off circuit. 4,673,798, 6-16-87, Cl. 219-225.000.
- Controfugas, s.r.l.: *See—*
  - Ferraro, Roberto, 4,652,831, Cl. 324-464.000.
- Control Data Canada, Ltd.: *See—*
  - Thomas, David M.; and Tubb, Leonard J., 4,697,185, Cl. 342-185.000.
- Control Data Corporation: *See—*
  - Bacchetti, Lawrence F.; Walker, David M.; and Smith, Donald O., 4,665,315, Cl. 250-492.100.
  - Breske, Carl D.; and Borning, Jeffrey M., 4,637,542, Cl. 228-180.100.
  - Chiu, Sou-Hsiung J.; and Qi, Yulu, 4,667,301, Cl. 364-717.000.
  - Claeys, Richard J.; Denny, Ronald R.; Vaughan, Joseph D.; and Eumurian, Charles, 4,708,660, Cl. 439-65.000.
  - Eidal, Russell C., 4,643,936, Cl. 428-214.000.
  - Harte, Kenneth J.; and Langner, Guenther O., 4,683,366, Cl. 219-121.0ER.
  - Harte, Kenneth J., 4,694,178, Cl. 250-396.00R.
  - Heller, Edward P., III, 4,652,915, Cl. 358-84.000.
  - Jallen, Gale A.; and Bonnie, Gene P., 4,692,898, Cl. 365-27.000.
  - Langner, Guenther O.; Harte, Kenneth J.; Dalterio, Michael J.; and Fishbein, Marvin, 4,675,528, Cl. 250-396.00R.
  - Lyon, Terry L., 4,660,198, Cl. 371-15.000.
  - Morris, James B., 4,677,458, Cl. 357-74.000.
  - Shambroom, John R.; and Sliski, Alan P., 4,686,531, Cl. 340-870.370.
  - Smith, Donald O.; Burgess, John R.; and Walker, David M., 4,661,203, Cl. 156-643.000.
  - Valun, John; and Harte, Kenneth J., 4,661,741, Cl. 313-447.000.
  - Walker, David M.; Sliski, Alan P.; Harte, Kenneth J.; and Carrona, John J., 4,661,709, Cl. 250-396.00R.
  - Walker, David M.; and Sliski, Alan P., 4,667,108, Cl. 250-396.00R.
- Control Devices, Incorporated: *See—*
  - Krechel, Joseph L.; Purvis, Michael J.; and Ross, Paul F., II, 4,705,076, Cl. 137-883.000.

- Control Fluidics, Inc.: *See—*
  - Heinze, Walter O.; and Tufts, Wesley M., 4,672,689, Cl. 4-415.000.
- Control Interface Company Limited: *See—*
  - Bohmer, William; Betancourt, Walter J.; and Hoffman, Louis S., 4,641,923, Cl. 350-335.000.
  - Bohmer, William, 4,658,188, Cl. 315-366.000.
  - Bohmer, William, 4,690,509, Cl. 350-333.000.
- Control Resources, Inc.: *See—*
  - Kundert, Warren R., 4,659,290, Cl. 417-32.000.
- Control Specialties Co., Inc.: *See—*
  - Lohn, Paul, 4,633,911, Cl. 138-44.000.
- Control Technology, Inc.: *See—*
  - Ferguson, Frank T., 4,703,191, Cl. 307-64.000.
  - Ferguson, Frank T., 4,703,192, Cl. 307-64.000.
- Control Techtronics, Inc.: *See—*
  - West, John S., 4,645,450, Cl. 431-12.000.
- Controle BVL LTEE: *See—*
  - Guerette, Alvin, 4,655,374, Cl. 222-504.000.
- Controlled Hydraulics, Inc.: *See—*
  - Sikorski, James F., 4,674,613, Cl. 192-52.000.
- Controlled Information Corporation: *See—*
  - Weaver, Jon N., 4,675,657, Cl. 340-551.000.
- Controlled Release Technologies, Inc.: *See—*
  - Tran, Loi H., 4,715,850, Cl. 604-82.000.
- Controlonics Corporation: *See—*
  - Zimmermann, Philip A.; and Van Lennep, William B., 4,700,397, Cl. 381-169.000.
- Contu, Salvatore: *See—*
  - Arduini, Carlo; Barboni, Renato; Castellani, Antonio; Ponzi, Ugo; Bielli, Paolo; and Contu, Salvatore, 4,701,765, Cl. 343-897.000.
- Conturo, Thomas E.: *See—*
  - Eisenberg, Alan D.; Conturo, Thomas E.; Wehr, Chris J.; and Schwartzberg, Mindy S., 4,669,481, Cl. 128-654.000.
- Contzen, Franz-Peter; Jokisch, Gerhard; and Vittori, Francesco, to Leybold-Heraeus GmbH. Magnetic valve for use with vacuum. 4,647,011, 3-3-87, Cl. 251-129.150.
- Converse Inc.: *See—*
  - O'Rourke, John J.; and Bunch, Richard P., 4,676,011, Cl. 36-89.000.
  - Parracho, Rui M.; Smith, Lloyd S.; Bunch, Richard P.; and Gross, Alexander L., 4,638,576, Cl. 36-68.000.
- Converse, Nelson. Damper hinge construction having progressively increased dampening during closed position approach. 4,653,141, 3-31-87, Cl. 16-82.000.
- Convey, Frank H., Jr., to Harris Graphics Corporation. Apparatus for placing a card on a bundle of sheet-like articles. 4,691,502, 9-8-87, Cl. 53-529.000.
- Convey Teknik AB: *See—*
  - Forslund, Alf; and Andersson, Goran, 4,695,414, Cl. 264-3.100.
- Conway, Anthony J.; Conway, Peter R.; and Conway, Philip J., to Mentor Corporation. Contraceptive hood. 4,638,790, 1-27-87, Cl. 128-138.00R.
- Conway de Macario, Everly; Jovell, Robert J.; and Macario, Alberto J. L., to Health Research, Incorporated. Microsample holder and carrier therefor. 4,682,890, 7-28-87, Cl. 356-244.000.
- Conway de Macario, Everly; Jovell, Robert J.; and Macario, Alberto J. L., to Health Research, Incorporated. Microcircle system. 4,682,891, 7-28-87, Cl. 356-244.000.
- Conway, Gerald A. Pad holder and display. 4,693,441, 9-15-87, Cl. 248-225.100.
- Conway, Hugh T.: *See—*
  - Losada, Robert J.; and Conway, Hugh T., 4,690,153, Cl. 128-763.000.
- Conway, John K., to Prutec Limited. Introduction of samples into a mass spectrometer. 4,634,865, 1-6-87, Cl. 250-288.000.
- Conway, John K., to Prutec Limited. Introduction of samples into a mass spectrometer. 4,634,866, 1-6-87, Cl. 250-288.000.
- Conway, John K.: *See—*
  - Fanshawe, Hew D.; and Conway, John K., 4,705,082, Cl. 141-4.000.
  - Ottley, Thomas W.; and Conway, John K., 4,634,867, Cl. 250-288.000.
- Conway, Larry J.; and Pulsifer, Paul I., to Canada, Her Majesty the Queen in right of, as represented by the Minister of National Defence. Intelligent broad band digital RF memory. 4,679,168, 7-7-87, Cl. 364-900.000.
- Conway, Mark M.; Murchison, Craig B.; and Stevens, Rex R., to Dow Chemical Company, The. Method for adjusting methanol to higher alcohol ratios. 4,675,344, 6-23-87, Cl. 518-714.000.
- Conway, Peter R.: *See—*
  - Conway, Anthony J.; Conway, Peter R.; and Conway, Philip J., 4,638,790, Cl. 128-138.00R.
- Conway, Philip J.: *See—*
  - Conway, Anthony J.; Conway, Peter R.; and Conway, Philip J., 4,638,790, Cl. 128-138.00R.
- Conway, Richard J.; Watson, Keith G.; and Farquharson, Graeme J., to CI Australia Ltd. Herbicidal 5-(3-substituted-isoxazoyl or isothiazoyl)-cyclohexane-1,3-dione derivatives. 4,704,157, 11-3-87, Cl. 71-90.000.
- Conway, Tim D., to Sunkist Growers Inc. Method and apparatus for optically measuring the volume of generally spherical fruit. 4,693,607, 9-15-87, Cl. 356-380.000.
- Conyers, Gregory P.: *See—*
  - Cramer, Eva B.; Milks, Linda C.; Conyers, Gregory P.; Valenti, Andrew; and Perez, Antonio, 4,686,190, Cl. 435-291.000.
- Conzelmann, Gerhard; and Nagel, Karl, to Robert Bosch GmbH. Monolithically integrated, polarity-reversal protected circuit. 4,689,711, 8-25-87, Cl. 361-91.000.
- Coogan, Clive K., to Commonwealth Scientific and Industrial Research Organization. Optically based measurement of fluid parameters. 4,690,560, 9-1-87, Cl. 356-338.000.
- Cook, Barry; Richardson, Norman; and Tames, Joseph, to Ciba-Geigy Corporation. Systems inhibited against corrosion and/or scale deposition. 4,689,200, 8-25-87, Cl. 422-15.000.
- Cook, Barry: *See—*
  - Richardson, Norman; Holt, Brian; and Cook, Barry, 4,681,686, Cl. 210-699.000.
- Cook, Bruce M.; and Gutman, Jerzy, to Westinghouse Electric Corp. Pulsed multichannel protection system with saturable core magnetic logic units. 4,661,310, 4-28-87, Cl. 376-259.000.
- Cook, Bruce M.; and Gutman, Jerzy, to Westinghouse Electric Corp. Testable voted logic power circuit and method of testing the same. 4,696,785, 9-29-87, Cl. 376-245.000.
- Cook, Charles. Rear view mirror with day/night setting and adjustable panoramic view. 4,714,322, 12-22-87, Cl. 350-281.000.
- Cook, Charles S., to Westinghouse Electric Corp. Pilgering apparatus. 4,674,312, 6-23-87, Cl. 72-208.000.
- Cook, Daniel D.: *See—*
  - Davern, John W.; and Cook, Daniel D., 4,645,112, Cl. 227-112.000.
- Cook, David C., to Cook, Thomas O., a part interest. Ball bat. 4,714,251, 12-22-87, Cl. 273-72.00R.
- Cook, David J.; and Lim, Nam W., to Unisearch Limited. Building material. 4,680,059, 7-14-87, Cl. 106-120.000.
- Cook, Donald A., to Coronet Industries, Inc. Suspended creel. 4,678,136, 7-7-87, Cl. 242-131.000.
- Cook, Douglas C. Adjustable strap. 4,672,910, 6-16-87, Cl. 114-361.000.
- Cook, Douglas R.: *See—*
  - Sander, Eugene H.; and Cook, Douglas R., 4,696,762, Cl. 252-311.000.
- Cook, Edward, to Amax Inc. Electrostatic precipitators. 4,666,474, 5-19-87, Cl. 55-137.000.
- Cook, Ewell R.: *See—*
  - Washburn, William N.; Cook, Ewell R.; and Dappen, Glen M., 4,672,029, Cl. 435-10.000.
- Cook, F. Bert: *See—*
  - Reid, Edward A.; Cook, F. Bert; and Purvis, Edgar M., 4,691,532, Cl. 62-476.000.
  - Reid, Edward A., Jr.; Cook, F. Bert; Winter, Edward M.; Purvis, Edgar M., Jr.; and Krause, Horatio H., Jr., 4,646,541, Cl. 62-476.000.
- Cook, Floyd L., Jr., to Cooper Clarke, Inc. Dry powder dispenser with wheeled transport cover. 4,699,537, 10-13-87, Cl. 401-131.000.
- Cook, George R.: *See—*
  - Chu, Arthur S.; Bart, Edward F.; Cook, George R.; and Horbachewski, David M., 4,664,774, Cl. 208-6.000.
- Cook, Glenn M.: *See—*
  - Blander, Milton; and Cook, Glenn M., 4,687,564, Cl. 204-243.00R.
- Cook, Gregory J.: *See—*
  - Stafford, Robert; and Cook, Gregory J., 4,644,706, Cl. 52-63.000.
- Cook, Harold T., Jr.: *See—*
  - Alex, Wayne E.; and Cook, Harold T., Jr., 4,648,193, Cl. 43-4.000.
- Cook, Harry L., to Ocean Ventures-1. Method and apparatus for improved aquaculture/mariculture. 4,658,757, 4-21-87, Cl. 119-3.000.
- Cook, Henry F., to Westinghouse Electric Corp. Self-compensating voted logic power interface with tester. 4,687,623, 8-18-87, Cl. 376-259.000.
- Cook, Incorporated: *See—*
  - Bates, Brian L., 4,643,711, Cl. 604-4.000.
  - Bates, Brian L., 4,650,472, Cl. 604-158.000.
  - Cook, William A., 4,637,396, Cl. 128-344.000.
  - Coons, Harold G., 4,693,250, Cl. 128-345.000.
  - Gianturco, Cesare, 4,687,468, Cl. 604-153.000.
  - Osborne, Thomas A., 4,634,433, Cl. 604-171.000.
- Cook, Jack E.: *See—*
  - Bradshaw, Thomas I.; Orensteen, Bruce D.; and Cook, Jack E., 4,714,656, Cl. 428-411.100.
- Cook, James C., II: *See—*
  - Eccleston, Larry; Cook, James C., II; and Goodrich, Earl R., II, 4,634,975, Cl. 324-232.000.
- Cook, James G.; and Knapp, Gary H., to Caterpillar Inc. Printed circuit board mounting apparatus. 4,636,920, 1-13-87, Cl. 361-420.000.
- Cook, James L., to Cooxint Limited. Golf practice apparatus. 4,659,081, 4-21-87, Cl. 273-201.000.
- Cook, James R.: *See—*
  - Callahan, Wayne B.; Koch, Harold O.; Palin, Philip R.; and Cook, James R., 4,638,056, Cl. 536-54.000.
- Cook, Jeffrey A.; and Hamburg, Douglas R., to Ford Motor Company. Reduction of HC emissions for vapor recovery purge systems. 4,715,340, 12-29-87, Cl. 123-406.000.
- Cook, Jerry A.: *See—*
  - Bilimoria, Bomi M.; Lewis, Herbert I.; Cook, Jerry A.; Turner, Ralph E., Jr.; and Garner, Robert H., 4,693,427, Cl. 241-23.000.
- Cook, John. Tool for removing and reapplying rivets. 4,637,113, 1-20-87, Cl. 29-243.540.
- Cook, John A.: *See—*
  - McLoughlin, Robert H.; Cook, John A.; and Park, George B., 4,675,258, Cl. 429-131.000.
- Cook, John E., to Canadian Fram Limited. Force balanced EGR valve with position feedback. 4,662,604, 5-5-87, Cl. 251-129.070.
- Cook, John E.; and Everingham, Gary M., to Canadian Fram Limited. Programmable thermostat and system therefor. 4,666,081, 5-19-87, Cl. 236-68.00R.
- Cook, John E.; Hagerty, Robert O.; and Jacob, Frederick W., to Mobil Oil Corporation. Method and reactor system for rapid kill gas injec-

tion to gas phase polymerization reactors. 4,666,999, 5-19-87, Cl. 526-84.000.

Cook, John E.; Giacobbe, Thomas J.; and Hagerty, Robert O., to Mobil Oil Corporation. Catalyst composition for polymerizing alpha-olefins at low reactants partial pressures. 4,675,369, 6-23-87, Cl. 526-129.000.

Cook, John E., to Bendix Engine Components Limited. Hydrocarbon flow rate regulator. 4,700,750, 10-20-87, Cl. 138-46.000.

Cook, John E.; and Ciphery, Douglas G., to Bendix Electronics Limited. Vapor control valve and system therefor. 4,703,737, 11-3-87, Cl. 123-520.000.

Cook, John E., to Canadian Fram Limited. Variable rate EGR valve with step motor control and method therefor. 4,708,316, 11-24-87, Cl. 251-39.000.

Cook, John F., to McNeil Corporation. Fluid flow monitoring system. 4,642,614, 2-10-87, Cl. 340-608.000.

Cook, John S., to Dorran Photonics, Incorporated. Method and apparatus for effecting light energy transmission with lessened reflection. 4,695,126, 9-22-87, Cl. 350-96.210.

Cook, John S., to Dorran Photonics Incorporated. Termination of optical fibers. 4,697,871, 10-6-87, Cl. 350-96.210.

Cook, Joseph P.: *See—*
  Moisan, Michael P.; and Cook, Joseph P., 4,668,532, Cl. 427-97.000.

Cook, Kenneth: *See—*
  Eichen, Elliot; Melman, Paul; and Cook, Kenneth, 4,714,346, Cl. 356-349.000.

Cook, Kenneth G., to M-O Valve Company Limited, The. Surge voltage protective circuit arrangements. 4,683,514, 7-28-87, Cl. 361-91.000.

Cook, Kenneth M.: *See—*
  Braun, Jeffrey J.; and Cook, Kenneth M., 4,698,582, Cl. 323-285.000.

Cook, Kenneth P.; and Bross, Robert M., to Site Microsurgical Systems, Inc. Aspiration fitting adaptor. 4,643,717, 2-17-87, Cl. 604-22.000.

Cook, Lanny D.; and Parker, George W., to Dresser Industries, Inc. Soft seat Y pattern globe valve. 4,688,757, 8-25-87, Cl. 251-210.000.

Cook, Lee M.; and Stokowski, Stanley E., to United States of America, Energy. Silica and boron-containing ultraphosphate laser glass with low concentration quenching and improved thermal shock resistance. 4,661,284, 4-28-87, Cl. 252-301.40P.

Cook, Marvin D.; and Martin, Clifford D. Arc welding instruction monitor. 4,677,277, 6-30-87, Cl. 219-130.010.

Cook, Melvin J. Livestock treatment system. 4,669,425, 6-2-87, Cl. 119-159.000.

Cook, Michael A.; Curzons, Alan D.; and Wilkins, Robert B., to Beecham Group p.l.c. Clavulanic acid amine salts, their preparation and use. 4,647,659, 3-3-87, Cl. 540-349.000.

Cook, Norman E. Electronic detection device for motorized vehicles. 4,637,359, 1-20-87, Cl. 123-179.00B.

Cook Paint and Varnish Company: *See—*
  Land, John M., 4,694,029, Cl. 522-8.000.

Cook, Phillip D.: *See—*
  McNamara, Dennis J.; and Cook, Phillip D., 4,681,873, Cl. 514-50.000.

Cook, R. James: *See—*
  Weller, David M.; Cook, R. James; and Becker, J. Ole, 4,647,533, Cl. 435-29.000.

Cook, Raymond: *See—*
  Wenham, Bruce T.; Cook, Raymond; and Hunter, Clifford R., 4,712,339, Cl. 52-173.0PS.

Cook, Richard: *See—*
  Green, George D.; Laboe, Lauren M.; and Cook, Richard, 4,641,207, Cl. 360-55.000.

Cook, Richard A.: *See—*
  Bryant, Stewart F.; Baker, Stephen J.; and Cook, Richard A., 4,638,442, Cl. 364-489.000.

Cook, Richard C. Cryptographic process and enciphered product. 4,682,954, 7-28-87, Cl. 380-154.000.

Cook, Robert C.; and Toeg, Sasson, to Securitron-Magnalock Corp. Electromagnet access control circuit. 4,682,801, 7-28-87, Cl. 292-251.500.

Cook, Robert D., to Crane Co. Brake feel augmentation valve and system. 4,668,021, 5-26-87, Cl. 303-93.000.

Cook, Robert D.; and Besemer, Donald M., to Syntex (U.S.A.) Inc. Fluid handling apparatus and method. 4,676,656, 6-30-87, Cl. 366-142.000.

Cook, Robert F.: *See—*
  Isban, Elliot; Stephenson, Charles F.; and Cook, Robert F., 4,645,286, Cl. 339-125.00L.

Cook, Robert K.; and Shepard, Joseph F., to International Business Machines Corporation. Method for making submicron mask openings using sidewall and lift-off techniques. 4,654,119, 3-31-87, Cl. 156-649.000.

Cook, Ronald L., to Texaco Inc. Method for forming ethylene glycol from sodium methoxide. 4,639,296, 1-27-87, Cl. 204-59.00R.

Cook, Ronald L. Method for deriving phenyl isocyanate from benzene and potassium isocyanate. 4,705,609, 11-10-87, Cl. 204-59.00R.

Cook, Sanford L.; and Kirkup, David, to Standard-Keil Hardware Manufacturing Co. Hardware for mounting a sliding door panel. 4,680,828, 7-21-87, Cl. 16-90.000.

Cook, Steven T.; and Wynn, David K., to Dayton Reliable Tool & Mfg. Co. Air assist means for use in transferring relatively flat objects. 4,696,179, 9-29-87, Cl. 72-405.000.

Cook, Terry L., to ACRA, Inc. Stripping composition and process for selective removal of electroless applied nickel. 4,647,352, 3-3-87, Cl. 204-146.000.

Cook, Thomas A., to Ciba-Corning Diagnostics Corp. Immunoass apparatus. 4,671,938, 6-9-87, Cl. 422-57.000.

Cook, Thomas A.: *See—*
  Farris, Ray L.; Rodi, Michael F.; Farris, Ray L.; Wylesol, Georg and Cook, Thomas A., 4,665,899, Cl. 128-25.00R.

Cook, Thomas O.: *See—*
  Cook, David C., 4,714,251, Cl. 273-72.00R.

Cook, Wayne L.; and Huth, Robert P., to Hilton-Davis Chemical C The. (2-alkoxy-4-sulfonyl-5-alkylphenyl)azo-1-hydroxynaphthalen sulfonic acids. 4,675,389, 6-23-87, Cl. 534-883.000.

Cook, Wayne L.; and Huth, Robert P., to Hilton Davis Co. Edib compositions colored with (2-alkoxy-4-sulfonyl-5-alkyphenyl)azo- hydroxynaphthalene sulfonic acids. 4,707,373, 11-17-87, C 426-540.000.

Cook, William A., to Cook, Incorporated. Balloon catheter. 4,637,39 1-20-87, Cl. 128-344.000.

Cook, William A. Radio frequency nozzle bar dryer. 4,638,571, 1-27-8 Cl. 34-1.000.

Cook, William G., to Sandy Hill Corporation. Adjustable means f profile correction for a headbox slice. 4,675,077, 6-23-87, C 162-344.000.

Cook, William H.; Deichert, William G.; Wrue, Richard J.; and Wes fall, Norman R., to Bausch & Lomb Incorporated. Method of makin articles of dissimilar polymer compositions. 4,701,288, 10-20-87, C 264-1.400.

Cooke, Carl W., to Inventive Packaging Corporation. Tamper-resistan package. 4,706,837, 11-17-87, Cl. 220-270.000.

Cooke, Francis W., to Clemson University. Hip prosthesis. 4,642,12 2-10-87, Cl. 623-23.000.

Cooke, Frank L. Air turbulence blades for ceiling fans. 4,662,82 5-5-87, Cl. 416-23.000.

Cooke, Mack A. Wire supply monitor. 4,674,668, 6-23-87, C 226-45.000.

Cooke, Michael D.; and Ross, Barry C., to Hoechst Aktiengesellschaf Antibacterial penem derivatives. 4,684,640, 8-4-87, Cl. 514-195.000.

Cooke, Nelson: *See—*
  Harris, John; Cooke, Nelson; and Olsen, Kristine, 4,636,316, C 210-656.000.

Cooke, Robert J.: *See—*
  Czelusniak, Daniel J.; Cooke, Robert J.; and Groleau, Donald K 4,658,490, Cl. 29-271.000.

Cooke, Ronald D., to Beloit Corporation. Preventing sheet flutter i paper web dryers. 4,686,777, 8-18-87, Cl. 34-116.000.

Cooke, Theodore F., Jr. Method for the preservation of wood 4,661,382, 4-28-87, Cl. 427-297.000.

Cooke, Theodore M.: *See—*
  Lin, An-Chung R.; and Cooke, Theodore M., 4,659,383, C 106-27.000.

Cooke, William B.: *See—*
  Eddins, Fred D.; and Cooke, William B., 4,670,820, Cl. 362-86.000

Cooke, William R.; Haugen, Brian G.; and Reparaz, Adolfo, to Ad vanced Nuclear Fuels Corporation. Remotely controlled apparatu for removing clips from irradiated nuclear fuel assemblies. 4,673,545 6-16-87, Cl. 376-261.000.

Cookerly, Jack C.: *See—*
  Hall, Robert J.; Hall, George R.; and Cookerly, Jack C., 4,682,526 Cl. 84-1.030.

Cook's Truck Body Mfg., Inc.: *See—*
  Hodge, Harold F., 4,691,956, Cl. 296-51.000.

Cool, Terrill A., to Cornell Research Foundation, Inc. Laser-enhanced flame ionization detection. 4,657,872, 4-14-87, Cl. 436-154.000.

Cool Water Corporation, The: *See—*
  Crowell, William H., 4,691,664, Cl. 119-61.000.

Coolen, Franueine: *See—*
  Brun, Chalres G. H.; Bailleul, Jean F.; Lecendre, Fuddy; and Coolen, Franueine, 4,663,956, Cl. 72-167.000.

Cooley, Claiborn, Jr., to FMC Corporation. Quick connect wellhead adapter. 4,688,632, 8-25-87, Cl. 166-77.500.

Cooley, Dennis A.: *See—*
  Quick, James R.; Mitchell, James W.; and Cooley, Dennis A., 4,713,510, Cl. 219-10.55E.

Cooley, Denton A.: *See—*
  Reed, Charles C.; Cooley, Denton A.; Crane, Terry N.; Swanson, Edward A.; Oscarsson, Rolf A.; Liebmann, Vern L.; and Cox, Dan L., 4,637,917, Cl. 422-46.000.

Cooley, Edward J.; and Shaw, Franklin D., to Platt Saco Lowell Corporation. Method and means of coiling start-up which prevents sliver slingover. 4,709,452, 12-1-87, Cl. 19-159.00R.

Cooley, Gloria L.; and Wilcox, Anne S., to Sungene Technologies Corporation. Sunflower regeneration through embryogenesis and organogenesis. 4,670,391, 6-2-87, Cl. 435-240.000.

Cooley, Gloria L.; and Wilcox, Anne S., to Sungene Technologies Corporation. Sunflower regeneration through embryogenesis 4,670,392, 6-2-87, Cl. 435-240.000.

Cooley, Gloria L.: *See—*
  Wilcox, Anne S.; and Cooley, Gloria L., 4,673,648, Cl. 435-240.000

Cooley, John. Sheetrock hanging tool. 4,709,527, 12-1-87, Cl 52-749.000.

Cooley, Julian B.: *See—*
  Olson, Paul B.; Minday, Richard M.; and Cooley, Julian B. 4,663,024, Cl. 208-120.000.

Cooley, Stephen E.; and Jensen, Martin J., to Wehr Corporation. Humidifier controller having multiple-phase electrode current sensor. 4,692,591, 9-8-87, Cl. 219-295.000.

Coombes, Alan: *See—*
  Mickiewicz, Stanley P.; and Coombes, Alan, 4,693,254, Cl. 128-421.000.
Coombes, Daniel J., to Motorola, Inc. Communication system with voice priority for remote stations. 4,635,285, 1-6-87, Cl. 379-63.000.
Coombes, Robert L., Jr.; Owen, Merrill J.; Colwell, Terance C.; and Walker, Donald E., to Crown City Plating Co. Molded framework for electroless and electrolytic plating racks. 4,714,535, 12-22-87, Cl. 204-297.00W.
Coombs, Daniel M.; Nowack, Gerhard P.; Bertus, Brent J.; and Kukes, Simon G., to Phillips Petroleum Company. Hydrodemetallization of oils. 4,671,866, 6-9-87, Cl. 208-251.00H.
Coombs, Daniel M.; Cymbaluk, Ted H.; Bertus, Brent J.; and Kukes, Simon G., to Phillips Petroleum Company. Hydrodemetallization of oils with catalysts comprising nickel phosphate and titanium phosphate. 4,680,105, 7-14-87, Cl. 208-251.00H.
Coombs, Daniel M.; Cymbaluk, Ted H.; Bertus, Brent J.; and Kukes, Simon G., to Phillips Petroleum Company. Coprecipitate of metal phosphates. 4,705,768, 11-10-87, Cl. 502-213.000.
Coombs, Daniel M.: *See—*
  Kolts, John H.; Bertus, Brent J.; and Coombs, Daniel M., 4,670,134, Cl. 208-251.00H.
Coon, Jessie H., to Phelps Dodge Industries, Inc. Ribbon cable, a transposed ribbon cable, and a method and apparatus for manufacturing transposed ribbon cable. 4,658,090, 4-14-87, Cl. 174-119.00R.
Coon, Paul A.: *See—*
  Coller, James R.; Coon, Paul A.; and Goodman, Joseph R., 4,637,670, Cl. 379-46.000.
Cooney, Charles L.: *See—*
  Willson, Richard C., III; Bulot, Eric; and Cooney, Charles L., 4,678,583, Cl. 210-638.000.
Cooney, James S.; and Sicard, Stephen T., to Augat Inc. Electrical test probe. 4,636,026, 1-13-87, Cl. 339-255.00R.
Cooney, James S.; and Sicard, Stephen T., to Pylon Company, Inc. Terminal plug body and connector. 4,660,922, 4-28-87, Cl. 339-278.00T.
Coons, Harold G., to Cook, Incorporated. Method for dilating puncture site in the renal pelvis. 4,693,250, 9-15-87, Cl. 128-345.000.
Coons, Mark E.: *See—*
  Wu, Chien-Chin; Reuter, Gerald L.; and Coons, Mark E., 4,676,984, Cl. 424-157.000.
Coons, Melvin S.: *See—*
  Skillen, John D.; Coons, Melvin S.; and Brannstrom, Olav H., 4,649,668, Cl. 49-374.000.
Coons, Randall P.: *See—*
  Loomer, Weston R.; and Coons, Randall P., 4,697,977, Cl. 414-662.000.
Coons, Robert A., Jr., to Xerox Corporation. Envelope configuration for use in a high speed copier with envelope printing capability. 4,690,392, 9-1-87, Cl. 271-2.000.
Coope, Daniel F., to NL Industries, Inc. Formation density logging while drilling. 4,705,944, 11-10-87, Cl. 250-254.000.
Cooper, executrix; by Rose H.: *See—*
  Axelrod, Robert J.; and Cooper, Glenn D., deceased, 4,680,342, Cl. 525-132.000.
Cooper, Adriaan, to United Technologies Corporation. Orthosis, method of making and kit therefor. 4,672,955, 6-16-87, Cl. 128-80.00F.
Cooper, Alan: *See—*
  Brocklebank, Norman; and Cooper, Alan, 4,679,336, Cl. 37-103.000.
Cooper, Albert A.; and Shields, Gerald N. Viscosity control. 4,662,030, 5-5-87, Cl. 73-56.000.
Cooper, Andrew T.; Cloutier, Robert P.; and Gates, Richard A., to Eastman Kodak Company. Motor-driven camera control mechanism. 4,660,950, 4-28-87, Cl. 354-173.100.
Cooper, Arthur J.: *See—*
  Currie, Janie K.; Cooper, Arthur J.; and Pesa, Frederick A., 4,687,875, Cl. 585-469.000.
Cooper, Augustus J.; and Cooper, John S. Container loader and transport assembly. 4,645,406, 2-24-87, Cl. 414-500.000.
Cooper, Brian F.; and Esterson, Maurice, to English Electric Valve Company Limited. Travelling wave tubes. 4,658,181, 4-14-87, Cl. 313-346.00R.
Cooper, Cawas A.: *See—*
  Johnson, Thomas A.; and Cooper, Cawas A., 4,709,028, Cl. 544-106.000.
Cooper, Charles E.; and Vest, Glenn E., to General Electric Company. Automatic tunnel detector for a self-propelled traction vehicle. 4,698,761, 10-6-87, Cl. 364-424.000.
Cooper, Charles F.: *See—*
  Shum, Wilfred P.; and Cooper, Charles F., 4,687,868, Cl. 556-57.000.
Cooper, Christopher A., to Marley Tile AG. Roofing systems. 4,651,491, 3-24-87, Cl. 52-534.000.
Cooper, Christopher A., to Marley Tile AG. Roof ridge capping system. 4,685,265, 8-11-87, Cl. 52-277.000.
Cooper Clarke, Inc.: *See—*
  Cook, Floyd L., Jr., 4,699,537, Cl. 401-131.000.
Cooper Cliff Door Manufacturing (1980) Ltd.: *See—*
  Taylor, Douglas B., 4,690,195, Cl. 160-310.000.
Cooper, Craig L.; and Klein, Fred T., to Phillips Petroleum Company. Battery charger having temperature compensated charge rate. 4,667,143, 5-19-87, Cl. 320-22.000.
Cooper, Daniel: *See—*
  Jackson, Jacqueline J.; Dvornichenko, Anatoly; and Cooper, Daniel, 4,663,127, Cl. 422-58.000.
Cooper, David A.: *See—*
  Cooper, Donald E.; and Cooper, David A., 4,646,765, Cl. 132-73.000.
Cooper, David H.; Toyota, Makoto; and Hunyady, Janos L., to Fuji Photo Optical Company, Ltd. Color video endoscope system. 4,667,229, 5-19-87, Cl. 358-98.000.
Cooper, David H.; and Hunyady, Janos L., to Fuji Photo Optical Company, Ltd. Image reversal correction system for video endoscopes. 4,677,470, 6-30-87, Cl. 358-98.000.
Cooper, David H.; Toyota, Makoto; and Arakawa, Satoshi, to Fuji Photo Optical Company, Ltd. Compact optical imaging system. 4,692,608, 9-8-87, Cl. 250-216.000.
Cooper, Donald E.; and Cooper, David A. Nail compositions containing cyanoacrylate and graphite. 4,646,765, 3-3-87, Cl. 132-73.000.
Cooper, Donald E.: *See—*
  Chandek, Anthony R.; Weistroffer, Leon J.; Cooper, Donald E.; and Bates, Daniel A., 4,644,144, Cl. 235-487.000.
Cooper, Donald K., to Allcock, Jerald T.; and Hargis, Billy D. Buffer deck assembly and surface maintenance apparatus. 4,654,918, 4-7-87, Cl. 15-98.000.
Cooper, Donald S. Modular display system. 4,656,766, 4-14-87, Cl. 40-605.000.
Cooper, Douglas W.: *See—*
  Cooper, George N.; and Cooper, Douglas W., 4,703,614, Cl. 56-16.600.
Cooper, Edward. AC voltage regulator with split primary switching. 4,716,357, 12-29-87, Cl. 323-263.000.
Cooper, Eugene A.: *See—*
  Higgins, Marvin L.; Eaton, Bill; Cooper, Eugene A.; and Cordy, Clifford B., Jr., 4,707,692, Cl. 340-805.000.
Cooper, Frank R.: *See—*
  Bacrania, Kanti; and Cooper, Frank R., 4,665,327, Cl. 307-475.000.
Cooper, Frank W., Jr.; Howard, Bruce A.; and Snyder, David A., to Westinghouse Electric Corp. Suspension of tools for sleeving of tubes of steam generator. 4,639,994, 2-3-87, Cl. 29-402.010.
Cooper, Frank W., Jr.; and Howard, Bruce A., to Westinghouse Electric Corp. Sleeving of tubes of steam generator in hostile environment. 4,653,164, 3-31-87, Cl. 29-157.400.
Cooper, Frank W., Jr.; and Dailey, George F., to Westinghouse Electric Corp. Debris removal system for a nuclear fuel assembly. 4,683,109, 7-28-87, Cl. 376-261.000.
Cooper, Frank W., Jr.; Howard, Bruce A.; and Snyder, David A., to Westinghouse Electric Corp. Sleeving of tubes of steam generator. 4,688,327, 8-25-87, Cl. 29-726.000.
Cooper, Frank W., Jr.: *See—*
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Cooper, George N.; and Cooper, Douglas W. Cyclone forage harvester. 4,703,614, 11-3-87, Cl. 56-16.600.
Cooper, Glenn D., deceased: *See—*
  Axelrod, Robert J.; and Cooper, Glenn D., deceased, 4,680,342, Cl. 525-132.000.
Cooper, Graham H. B.; and Williams, John A., to Supergas Ltd. Manifolding systems for gas containers. 4,682,627, 7-28-87, Cl. 137-572.000.
Cooper, Gregory R.; and Pragnell, Robert J., to Coal Industry (Patents) Limited. Method of forming a waterproof roof. 4,670,071, 6-2-87, Cl. 156-71.000.
Cooper-Hart, Michael A.; Emmons, Lawrence D.; Mackley, James S.; and Stokes, David H., to Luma Telecom, Inc. Conversational video phone. 4,715,059, 12-22-87, Cl. 379-53.000.
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  Bell, David E.; and Babbs, Dennis G., 4,635,889, Cl. 248-265.000.
  Block, Thomas S., 4,633,541, Cl. 15-49.00R.
  Espevik, Craig S., 4,667,062, Cl. 174-65.00R.
  Gockley, Glenn E.; and Shaffer, Michael D., 4,660,611, Cl. 152-243.000.
  Haarer, Steven R., 4,662,596, Cl. 248-251.000.
  Helmich, Melvin J.; Ryan, William P.; and Marvin, David H., 4,708,094, Cl. 123-27.0GE.
  Hitchcock, William H., 4,683,404, Cl. 315-289.000.
  Kelsall, Jeffrey C., 4,655,422, Cl. 248-56.000.
  Kristofek, Paul, 4,636,925, Cl. 362-277.000.
  LaCount, Kenneth H., 4,708,382, Cl. 294-82.100.
  Weiner, Jerome; and Choung, Moon, 4,702,508, Cl. 294-101.000.
Cooper Industries, Inc.: *See—*
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  Angeles, Purita R., 4,687,294, Cl. 350-96.230.
  Biegon, Robert J.; Kincaid, John W., Jr.; and Visser, Leonard J., 4,647,844, Cl. 324-57.00R.
  Bray, Thomas J., 4,680,706, Cl. 364-492.000.
  Burmenko, Mark, 4,644,247, Cl. 320-39.000.
  Chapin, David S., 4,635,363, Cl. 30-257.000.
  Cox, Albert R., 4,678,864, Cl. 174-36.000.
  Date, K. Henry; and Wainio, Ronald, 4,713,505, Cl. 200-153.0SC.
  Edwards, Carl H., 4,680,567, Cl. 337-164.000.
  Frawley, Lanny J., 4,710,140, Cl. 439-733.000.
  Gaia, Aldino J., 4,703,300, Cl. 337-164.000.
  Harnois, Carey D., 4,696,528, Cl. 439-160.000.
  Hurley, James R., 4,642,564, Cl. 324-132.000.
  Kilmer, Paul R., 4,633,921, Cl. 140-124.000.
  Looper, Larry L.; and Lory, John C., 4,669,368, Cl. 92-259.000.
  Maros, Ronald R., 4,647,128, Cl. 339-61.00M.

Merrill, George O., 4,641,877, Cl. 294-101.000.
Nash, William H.; and Fowler, Eugene C., 4,713,644, Cl. 337-158.000.
Nelson, Arvid L., 4,666,374, Cl. 417-3.000.
Ohlhaber, Ronald L.; and Ulijasz, Thaddeus R., 4,695,127, Cl. 350-96.230.
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Urani, Angelo, 4,643,510, Cl. 339-176.00R.
Urani, Angelo, 4,690,648, Cl. 439-622.000.
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Waltemyer, Ronald G.; and Brown, Royce L., 4,682,467, Cl. 59-30.000.
Wilhelmson, Jack L.; and Postlewait, Lester B., 4,673,300, Cl. 374-182.000.
Cooper, J. Carl. Apparatus and method for receiving audio signals transmitted as part of a television video signal. 4,665,431, 5-12-87, Cl. 358-145.000.
Cooper, J. Carl. Audio to video timing equalizer method and apparatus. 4,703,355, 10-27-87, Cl. 358-149.000.
Cooper, J. Robert, III. Foul weather garment. 4,667,344, 5-26-87, Cl. 2-79.000.
Cooper, James; and Watson, Robert K., to James Howden & Company Limited. Method of operating metallurgical furnace and a metallurgical furnace apparatus. 4,689,076, 8-25-87, Cl. 75-10.610.
Cooper, James A.: *See—*
Tommis, Norman; and Cooper, James A., 4,715,422, Cl. 164-97.000.
Cooper, James A., Jr., to Purdue Research Foundation. Memory device. 4,635,083, 1-6-87, Cl. 357-16.000.
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Cooper, James L.; and Welter, Clarence L., to Electrical Equipment, Inc. Modular barrier assembly. 4,689,716, 8-25-87, Cl. 361-331.000.
Cooper, James W. Satellite despin device. 4,688,746, 8-25-87, Cl. 249-165.000.
Cooper, Jerri L.: *See—*
McDowell, Donald J.; and Cooper, Jerri L., 4,659,410, Cl. 156-277.000.
Cooper, John; Hall, Reginald E.; and Lloyd-Jones, Peter G. Modular panel system. 4,644,993, 2-24-87, Cl. 160-229.00R.
Cooper, John F.; Kirkpatrick, Edward S.; and Linsker, Ralph, to International Business Machines Corporation. Method for distributing wire load in a multilayer package and the resulting product. 4,713,773, 12-15-87, Cl. 364-491.000.
Cooper, John F.: *See—*
Goldstein, Amnon; and Cooper, John F., 4,683,187, Cl. 430-106.600.
Cooper, John H.; and South, William H., to Westinghouse Electric Corp. Protective relay circuit for detecting arcing faults on low-voltage spot networks. 4,639,817, 1-27-87, Cl. 361-62.000.
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Schaefer, William F.; Little, James L.; Cooper, Kenneth F.; and Easter, James R., 4,675,147, Cl. 376-245.000.
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Kreizman, Alexander; and Broadwin, Alan, 4,634,419, Cl. 604-22.000.
Cooper, Leonard W. Shirt with adjustable collar opening. 4,648,137, 3-10-87, Cl. 2-141.00R.
Cooper-Lipotech, Inc.: *See—*
Martin, Francis J., and Kung, Viola T., 4,636,479, Cl. 436-533.000.
Cooper, Lorne: *See—*
Sullivan, Roderick B., II; Doshi, Mahesh; and Cooper, Lorne, 4,695,968, Cl. 364-578.000.
Cooper, Marshall H.; and Pocock, Robert E., to Babcock & Wilcox Company, The. Safety system for coal pulverizers. 4,653,698, 3-31-87, Cl. 241-31.000.
Cooper, Martin H.: *See—*
Kasner, William H.; Cooper, Martin H.; Swenson, Clark E.; Ciez, Albert P.; and Andrews, Katherine M., 4,683,365, Cl. 219-121.0LC.
Sievers, Robert K.; Cooper, Martin H.; and Tupper, Robert B., 4,698,200, Cl. 376-233.000.
Cooper, Michael G.; Elliott, Elden M.; and Hartzell, Dean A., to Boeing Company, The. Autopilot flight director system. 4,644,538, 2-17-87, Cl. 371-9.000.
Cooper, Michael H.: *See—*
Collins, Johnny; Cooper, Michael H.; Dowden, Douglas C.; Gill, Raymond J.; and Zola, Meyer J., 4,656,624, Cl. 370-60.000.
Cooper, Michael N.; and Pokalsky, Peter A., to Knogo Corporation. Method and apparatus for target deactivation and reactivation in article surveillance systems. 4,665,387, 5-12-87, Cl. 340-572.000.
Cooper, Neil; and Mayes, James T., to Scripps Clinic and Research Foundation. Method and system for detection of complement pathway activation. 4,642,284, 2-10-87, Cl. 435-7.000.
Cooper, Noel G.; and Dillon, Roy A. Elevating apparatus. 4,658,934, 4-21-87, Cl. 187-17.000.
Cooper, Paul: *See—*
Allen, Peter H. G.; and Cooper, Paul, 4,651,806, Cl. 165-1.000.
Cooper, Peter J., to Cooperheat, Inc. Method of maintaining pipework and/or storage vessels at predetermined process temperature by using heat tracing tape and power control system. 4,701,598, 10-20-87, C 219-535.000.
Cooper, Ralph M.: *See—*
Hayes, Earl J.; Cooper, Ralph M.; Denlinger, Keith R.; and Shue John R., 4,697,864, Cl. 439-444.000.
Hayes, Earl J.; and Cooper, Ralph M., 4,705,339, Cl. 439-277.00
Cooper, Randy G. Steering knuckle and spindle assembly. 4,693,4 9-15-87, Cl. 280-96.100.
Cooper, Robert P., to Cardiovascular Devices, Inc. Flow-throu housing with blood gas sensors. 4,640,820, 2-3-87, Cl. 422-68.000.
Cooper, Ronald J.; Marsico, Mario A.; Pescatore, John C.; and Sul van, Paul D., to International Business Machines Corporation. Mul plexed interrupt/DMA request arbitration apparatus and metho 4,648,029, 3-3-87, Cl. 364-200.000.
Cooper, Ronald J.: *See—*
Burrus, Gilbert S., Jr.; Cooper, Ronald J.; Marr, Michael R.; Pe catore, John C.; and Marsico, Mario A., 4,716,523, C 364-200.000.
Cooper, Stephen M.: *See—*
Takekoshi, Tohru; Clagett, Donald C.; and Cooper, Stephen M 4,634,760, Cl. 528-353.000.
Cooper, Thomas F., to Xerox Corporation. Sorting apparatu 4,681,310, 7-21-87, Cl. 270-53.000.
Cooper, Thomas F.: *See—*
Christy, Kenneth G.; and Cooper, Thomas F., 4,664,509, C 355-75.000.
Cooper, Thomas G.: *See—*
Moon, Ronald R.; Machado, Michael G.; Cooper, Thomas C Weiher, Patrick M.; Bruner, Curtis H.; Strysko, Mark E.; Uhle dorf, Gregg J.; Campbell, Steven G.; Quan, Tuong T.; a Luong, Hoa V., 4,669,004, Cl. 360-77.000.
Cooper Tire & Rubber Company: *See—*
Knurek, Thomas A.; Houston, Terry L.; and Hipsher, Gary L 4,687,188, Cl. 267-140.100.
Cooper, William H.; Brunet, Ana G.; and Campbell, William F., to PP Industries, Inc. Method for removing chlorate from alkali me hydroxide. 4,676,971, 6-30-87, Cl. 423-641.000.
Cooperatieve Vereniging Suiker Unie U.A.: *See—*
Koerts, Kees; and Hanssens, Theodoor R., 4,702,839, C 210-638.000.
CooperBiomedical, Inc.: *See—*
Huebner, Victor R.; and Hartman, Scott K., 4,688,017, Cl. 34 347.0NT.
Kelleher, Thomas J.; and Nix, Paul T., 4,673,633, Cl. 435-4.00
Cooperheat, Inc.: *See—*
Cooper, Peter J., 4,701,598, Cl. 219-535.000.
Cooperman, Michael; and Sieber, Richard W., to GTE Laborato Incorporated. Two wire bidirectional digital transmission syste 4,638,473, 1-20-87, Cl. 370-27.000.
Cooperman, Michael; Gray, Donald J.; Sieber, Richard W.; and Mo lenbeek, Rob, to GTE Laboratories Incorporated. Digital switchi system. 4,656,621, 4-7-87, Cl. 370-59.000.
CooperVision, Inc.: *See—*
Beuchat, Charles, 4,671,277, Cl. 128-316.000.
Dewey, David A.; and Pynckel, Paul C., 4,686,992, Cl. 128-303.1
Graham, William M.; Vaughn, Wade C.; and Inman, Charles M 4,697,697, Cl. 206-5.100.
Hood, Larry L.; and Imonti, Maurice M., 4,681,561, Cl. 604-22.
Imonti, Maurice M., 4,674,502, Cl. 128-305.000.
Morland, Albert H.; and Phoenix, John T., 4,677,729, C 29-426.500.
Steppe, Dennis L.; Hood, Larry L.; and Boggs, Gary D., 4,713,0 Cl. 604-30.000.
Tao, Frank, 4,687,997, Cl. 324-439.000.
Coopetanche S.A.: *See—*
Renaud, Alain P., 4,671,840, Cl. 156-287.000.
Coopmans, George J. Tool caddy. 4,667,822, 5-26-87, Cl. 206-373.0
Coors Porcelain Company: *See—*
Brennan, Anthony; and Files, Edmee, 4,657,992, Cl. 525-482.0
Coosemans, Luc M. C.: *See—*
Blenkers, Johannes; and Coosemans, Luc M. C., 4,704,376, C 502-104.000.
Cooxint Limited: *See—*
Cook, James L., 4,659,081, Cl. 273-201.000.
Copal Company Limited: *See—*
Asai, Nobuyoshi, 4,652,852, Cl. 338-268.000.
Kohno, Takanori, 4,710,014, Cl. 354-427.000.
Nakamori, Masao; and Ichinose, Harunobu, 4,694,363, C 360-99.000.
Nakamura, Shigekazu; Kitazawa, Osamu; Nakamori, Masao; a Ohzeki, Yoshiyuki, 4,646,194, Cl. 360-137.000.
Nakamura, Shigekazu, 4,649,342, Cl. 324-208.000.
Suzuki, Akira, 4,714,336, Cl. 354-246.000.
Takagi, Masaaki, 4,664,493, Cl. 354-226.000.
Takanori, Kohno, 4,684,234, Cl. 354-421.000.
Copal Electronics Co., Ltd.: *See—*
Okazaki, Atsushi; Igarashi, Masahiko; and Horie, Tsun 4,712,084, Cl. 338-184.000.
Copas, Raymond J.; and Kentwell, Dion F. Coating of wire or st 4,664,953, 5-12-87, Cl. 427-355.000.
Cope, Carroll W., to DG Shelter Products. Molding coating compo tion and process. 4,638,022, 1-20-87, Cl. 524-15.000.
Cope, Charles S.; Kitagawa, Katsunosuke; and Konabe, Kazuo, to D Pont de Nemours, E. I., and Company. Process for separating surf tants from liquid used in the manufacture of concentrated fluorop mer dispersions. 4,639,337, 1-27-87, Cl. 260-408.000.

Cope, Dennis R.: *See—*

Hillstrom, David U.; and Cope, Dennis R., 4,714,220, Cl. 248-160.000.

Cope, Fred C.: *See—*

Krauter, Allan I.; Cope, Fred C.; and Bean, John H., 4,649,904, Cl. 128-6.000.

COPE, Inc.: *See—*

Koperdak, Edward A., 4,668,292, Cl. 106-36.000.

Koperdak, Edward A., 4,690,382, Cl. 256-1.000.

Cope, John F.: *See—*

Woods, William B.; Brauer, Melvin; Duneczky, Francis; Simone, Dominic; and Cope, John F., 4,664,908, Cl. 424-59.000.

Cope, Paul E. G.: *See—*

Wilson, David J. M.; and Cope, Paul E. G., 4,692,614, Cl. 250-231.00R.

Cope, Richard E.; and Stirling, Hugh G., to National Research Development Corporation. Soil-inversion cultivator. 4,687,065, 8-18-87, Cl. 172-167.000.

Copeland, Bobby E. Alarm monitoring device. 4,675,654, 6-23-87, Cl. 340-502.000.

Copeland Corporation: *See—*

Caillat, Jean-Luc, 4,639,201, Cl. 418-55.000.

Yun, Kyung W.; Jones, Othel L.; Long, Gerald M.; and Elson, John P., 4,685,489, Cl. 137-543.150.

Copeland, Dennis J., to Cardioptic Inc. Trash bag filling and packing form. 4,643,380, 2-17-87, Cl. 248-97.000.

Copeland, Duane: *See—*

Harris, Mark; and Copeland, Duane, 4,651,879, Cl. 209-523.000.

Copeland, Henry; and Copeland, Steve M. Wet sandblasting system. 4,709,515, 12-1-87, Cl. 51-436.000.

Copeland, James L., to Ecolab Inc. Solid block chemical dispenser for cleaning systems. 4,687,121, 8-18-87, Cl. 222-64.000.

Copeland, James L., to Ecolab Inc. Solid block chemical dispenser for cleaning systems. 4,690,305, 9-1-87, Cl. 222-52.000.

Copeland, James L., to Ecolab Inc. Mechanical dishwashing rinse composition having a low foaming sulfonic acid rinsing agent and a source of active halogen. 4,711,738, 12-8-87, Cl. 252-95.000.

Copeland, Steve M.: *See—*

Copeland, Henry; and Copeland, Steve M., 4,709,515, Cl. 51-436.000.

Copeland, Wayne E. Illuminated stepping pad. 4,697,950, 10-6-87, Cl. 404-9.000.

Copen, Robert L.: *See—*

Harth, George H., III; Zolton, Gregory P., II; and Copen, Robert L., 4,682,397, Cl. 29-407.000.

Copenhafer, William C.; and Pfeffer, Henry A., III, to Intermountain Research & Development Corporation. Solution mining of trona or nahcolite ore with electrodialytically-produced aqueous sodium hydroxide. 4,652,054, 3-24-87, Cl. 299-5.000.

Copenhafer, William C.; Pfeffer, Henry A., III; and Rauh, Francis, to Intermountain Research & Development Corporation. Production of sodium bicarbonate by reversion of soda-type feed salt. 4,654,204, 3-31-87, Cl. 423-422.000.

Copenhaver, Diane B.; Devany, E. Paul; and Hedgemon, LaBrose, to International Business Machines Corporation. Editing and reflecting color display attributes of non-active profiles. 4,648,046, 3-3-87, Cl. 364-518.000.

Copernicus Corporation: *See—*

Lemme, Charles D.; and Lemme, Tracy R., 4,653,468, Cl. 126-373.000.

Coplan, Myron J., to Albany International Corp. Module for multistage gas separation. 4,676,808, 6-30-87, Cl. 55-158.000.

Coplan, Myron J., to Albany International Corporation. Threaded end enclosure. 4,709,831, 12-1-87, Cl. 220-304.000.

Copland, Donald S.; Halstead, Larry D.; and O'Brien, Lawrence E., to Procter & Gamble Company, The. Shaped thermoformed flexible film container for granular products and method and apparatus for making the same. 4,684,025, 8-4-87, Cl. 206-484.000.

Copland, George V.; and Barrington, Burchus Q., to Halliburton Company. Well bore measurement tool. 4,673,890, 6-16-87, Cl. 33-178.00F.

Copland, George V.: *See—*

Toellner, Robert L.; and Copland, George V., 4,707,699, Cl. 342-352.000.

Coplans, Carl W., to Seton Products Limited. Corset. 4,681,713, 7-21-87, Cl. 450-134.000.

Copley, Kelly S., to Cameron Iron Works, Inc. Wellhead sealing assembly. 4,645,214, 2-24-87, Cl. 277-112.000.

Copley, Michael C.; and Clark, Alonzo W., IV, to Off-The-Wall Products. Baseball alarm clock. 4,702,614, 10-27-87, Cl. 368-72.000.

opolymer Rubber & Chemical Corp.: *See—*

Olivier, Errol J., 4,670,515, Cl. 525-285.000.

pp, Warren K., to United Kingdom of Great Britain and Northern Ireland, The Secretary of State for Defence in Her Britannic Majesty's Government of the. Oronasal mask assemblies. 4,677,713, 7-7-87, Cl. 24-590.000.

pp, Warren K., to United Kingdom of Great Britain and Northern Ireland, The Secretary of State for Defence in Her Britannic Majesty's Government of the. Aircrew headgear ejection means. 4,711,411, 12-8-87, Cl. 244-1.00R.

ppa, Anthony P., to General Electric Company. Apparatus and method for constructing and disassembling a truss structure. 4,633,566, 1-6-87, Cl. 29-429.000.

ppa, Anthony P., to General Electric Company. Method of truss structure construction. 4,644,628, 2-24-87, Cl. 29-429.000.

ppa, Gianni; and Di Vita, Pietro, to CSELT-Centro Studi e Laboratori Telecomunicazioni S.p.A. Method of and apparatus for measuring the cut-off wavelength of the first higher order mode in optical fibers. 4,657,388, 4-14-87, Cl. 356-73.100.

Coppa, Gianni; and Di Vita, Pietro, to CSELT-Centro Studi e Laboratori Telecomunicazioni S.p.A. Method of and apparatus for measuring transverse moments of an electromagnetic field associated with an optical beam. 4,662,744, 5-5-87, Cl. 356-73.100.

Coppa, Gianni; and Di Vita, Pietro, to CSELT-Centro Studi e Laboratori Telecomunicazioni S.p.A. Method of and apparatus for the measurement of the refractive-index profile in monomode optical fibres. 4,664,516, 5-12-87, Cl. 356-73.100.

Coppa, Louis; Mengual, Christian; Ripart, Alain; and Zava, Francis, to Commissariat a l'Energie Atomique. Machine for examining a nuclear reactor fuel assembly. 4,657,728, 4-14-87, Cl. 376-248.000.

Coppa, Paolo: *See—*

Ferrero, Mario; Coppa, Paolo; and Salvatore, Osvaldo, 4,700,042, Cl. 219-110.000.

Coppedge, Charles D.: *See—*

Johnson, Carl H.; Coppedge, Charles D.; and McCasland, Charles S., 4,664,619, Cl. 431-154.000.

Coppelmans, Petrus M. C.: *See—*

Van Roermund, Arthur H. M.; and Coppelmans, Petrus M. C., 4,691,171, Cl. 328-167.000.

Coppens, Christian; Perron, Gilbert; and Pouillard, Jean, to Compagnie Industrielle des Telecommunications Cit-Alcatel. Digital trunk adapter terminal unit. 4,685,100, 8-4-87, Cl. 370-58.000.

Coppens, Wilfried; and Lievens, Hugo. Ternary brass alloy coated steel elements for reinforcing rubber. 4,677,033, 6-30-87, Cl. 428-677.000.

Coppens, Wilfried; and Lievens, Hugo. Rubber adherable steel reinforcing elements with composite surface coating. 4,704,337, 11-3-87, Cl. 428-625.000.

Copper Development Association, Inc.: *See—*

Beal, Roy E., 4,647,308, Cl. 106-1.120.

Coppersmith, Don; and Kitchens, Bruce P., to International Business Machines Corporation. Run-length limited code without DC level. 4,675,650, 6-23-87, Cl. 340-347.0DD.

Coppin, Christophe M.: *See—*

Siezen, Roelant J.; Coppin, Christophe M.; and Benedek, George B., 4,665,089, Cl. 514-422.000.

Coppin, William, to Maxon Corporation. High temperature burner assembly. 4,690,635, 9-1-87, Cl. 431-187.000.

Coppin, William: *See—*

Rollins, Jack; Coppin, William; and Karabin, Thaddeus, 4,635,898, Cl. 251-229.000.

Coppola, Claude. Hygienic assembly for use by cats. 4,706,606, 11-17-87, Cl. 119-1.000.

Coppola, Pat: *See—*

Young, Chung C.; Coleman, Robert L.; Sullivan, Sheila M.; Grimes, John F.; Baumeister, Ferdnand; MacIndoe, Robert; Catalano, Lou; Coppola, Pat; Spaziani, Fred; Rodomista, Guy; and Fowler, James E., 4,686,479, Cl. 324-439.000.

Coppola, Peter J., to Jet Spray Corp. Syrup sensor for dispensing machine. 4,645,095, 2-24-87, Cl. 222-64.000.

Copytele, Inc.: *See—*

DiSanto, Frank J.; and Krusos, Denis A., 4,655,897, Cl. 204-299.00R.

Copytex GmbH Sicherheitssysteme: *See—*

Stockburger, Hermann; and Bauer, Siegfried, 4,649,265, Cl. 235-380.000.

Coq, Jean L., to Du Pont de Nemours, E. I., and Company. Non-stick silicone blend coating. 4,684,577, 8-4-87, Cl. 428-447.000.

Coquard, Jean; and Goletto, Jean, to Rhone-Poulenc Specialties Chimiques. Homogeneous copolyamide comprised of hexamethylenediamine/adipic acid/short chain diacid/dimer acid and catalytic preparation thereof. 4,680,379, 7-14-87, Cl. 528-336.000.

Coquelet, Andre, to Mitchell Sports. Brake for fish casting reel. 4,634,073, 1-6-87, Cl. 242-84.50A.

Coquelet, Claude; Bertez, Chantal; Bonne, Claude; and Sincholles, Daniel. 2-(N-substituted hydrazone), thiazoles useful as anti-inflammatories. 4,656,184, 4-7-87, Cl. 514-370.000.

Coquelet, Claude; Battais, Elisabeth; Bonne, Claude; and Sincholle, Daniel, to Laboratoires Chauvin-Blache. Amidines, preparation process and therapeutical application thereof. 4,665,085, 5-12-87, Cl. 514-398.000.

Coquillon, Michel: *See—*

Garnier, Patrick; Abriou, Daniel; and Coquillon, Michel, 4,661,137, Cl. 65-21.400.

Coquin, Gerald A.; Lynch, William T.; and Parrillo, Louis C., to AT&T Bell Laboratories. Latchup-preventing CMOS device. 4,647,957, 3-3-87, Cl. 357-42.000.

Coradi, Michael D.; and Vitalbo, Carl A., to Westinghouse Electric Corp. Analog process control system testing. 4,692,298, 9-8-87, Cl. 376-215.000.

Corah, Allan J. Razor holding means for shaving cream cans. 4,656,738, 4-14-87, Cl. 30-41.000.

Corallo, Gianbattista; and Domenici, Gilberto, to Ing. C. Olivetti & C., S.p.A. Case for document binder. 4,666,039, 5-19-87, Cl. 206-424.000.

Coraluppi, Enzo: *See—*

Valbusa, Luigi; Coraluppi, Enzo; Quaglia, Andrea; and Tavella, Mario, 4,636,457, Cl. 430-267.000.

Coraluppi, Giorgio L.; Driscoll, John L.; Jacobs, David C.; Law, Edward K. H.; and Masson, Gerald M. Rearrangeable full availability multistage switching network with redundant conductors. 4,654,842, 3-31-87, Cl. 370-16.000.

Coran, Aubert Y.; and Endter, Cynthia K., to Monsanto Company. Polynetwork EPDM rubber. 4,661,554, 4-28-87, Cl. 524-504.000.

- Coran, Aubert Y., to Monsanto Company. Making rubber blends of diene rubber & EPR or EPDM. 4,687,810, 8-18-87, Cl. 525-74.000.
- Corato, Renzo; Ganapini, Giulio; Meier, Hans-Anton; Poggi, Mauro; Rosso, Antonio; and Sanchioni, Sergio, to Alusuisse Italia, S.p.A.; Italimpianti Societa Italiana Impianti p.A.; and Sirma S.p.A. Method and tunnel type furnace for calcining carbonaceous bodies, in particular electrodes. 4,674,975, 6-23-87, Cl. 432-11.000.
- Corban International, Ltd.: *See—*
  - Thomas, David C., 4,654,792, Cl. 364-200.000.
- Corbel, Henri: *See—*
  - Couderc, Pierre; and Corbel, Henri, 4,686,803, Cl. 52-97.000.
- Corbel, Philippe; and Allanic, Michel, to Thomson-LGT Laboratoire General des Telecommunications. Device for the automatic precorrection of non-linearities in a power amplification chain for a television transmitter. 4,672,452, 6-9-87, Cl. 358-187.000.
- Corbellini, Carlo: *See—*
  - Richard, Philippe; Papillon, Jean-Charles; Guyot, Alain; and Corbellini, Carlo, 4,638,838, Cl. 138-30.000.
- Corbet, Jean-Pierre: *See—*
  - Barriere, Jean-Claude; Corbet, Jean-Pierre; Cotrel, Claude; Farge, Daniel; and Paris, Jean-Marc, 4,686,309, Cl. 564-355.000.
- Corbet, Pierre: *See—*
  - Abondance, Roger; Corbet, Pierre; Jodelet, Francois; and Andre, Jean-Francois, 4,714,267, Cl. 280-615.000.
- Corbethau, Eric. Apparatus for replacing the electrodes of electric arc furnaces. 4,665,530, 5-12-87, Cl. 373-92.000.
- Corbett, Clifford F.: *See—*
  - Butler, David R.; and Corbett, Clifford F., 4,694,884, Cl. 164-359.000.
- Corbett, Gordon J.: *See—*
  - Parkes, Adrian S.; Corbett, Gordon J.; Clough, Peter S.; and Barker, Colin N. H., 4,643,855, Cl. 264-36.000.
- Corbett, James P. Oscillating crystal transducer systems. 4,703,216, 10-27-87, Cl. 310-338.000.
- Corbett, John S., to Fisons plc. Aerosol dispensing metering valve. 4,702,400, 10-27-87, Cl. 222-402.200.
- Corbett, Joseph E. Ventricular catheter. 4,655,745, 4-7-87, Cl. 604-49.000.
- Corbett, Marshall J., to Grumman Aerospace Corporation. Laser illumination system for aircraft launch and landing system. 4,700,912, 10-20-87, Cl. 244-63.000.
- Corbett, Marshall J.; and Belisle, Joseph A., to Grumman Aerospace Corporation. Single stage autophage rocket. 4,703,694, 11-3-87, Cl. 102-374.000.
- Corbett, Marshall J., to Grumman Aerospace Corporation. Manned entry vehicle system. 4,703,905, 11-3-87, Cl. 244-162.000.
- Corbett, Mary D. Jewelry display device. 4,687,103, 8-18-87, Cl. 206-566.000.
- Corbett, Peter J.: *See—*
  - Loutnan, Hendrik W.; and Corbett, Peter J., 4,670,183, Cl. 252-301.350.
- Corbett, Richard M.: *See—*
  - Guinn, William H., Jr.; Corbett, Richard M.; Bundy, Robert S.; Seaman, Jeffrey M.; Duncan, Keith B.; and Link, Charles M., II, 4,642,425, Cl. 379-57.000.
- Corbiere, Claude, to Corbiere S.A. Process for giving relief in several directions to a textile cloth. 4,660,261, 4-28-87, Cl. 28-155.000.
- Corbiere S.A.: *See—*
  - Corbiere, Claude, 4,660,261, Cl. 28-155.000.
- Corbin, David R.: *See—*
  - Bergna, Horacio E.; Corbin, David R.; and Sonnichsen, George, 4,683,334, Cl. 564-474.000.
- Corbin, Dennis O.: *See—*
  - Knoth, Wayne M.; and Corbin, Dennis O., 4,708,276, Cl. 227-7.000.
- Corbin, Malcolm J.; and Jones, John G., to United Kingdom of Great Britain and Northern Ireland, The Secretary of State for Defence in Her Britannic Majesty's Government of the. Control systems. 4,646,227, 2-24-87, Cl. 364-184.000.
- Corbin, Susan E.; Brown, Cal R.; Crozier, David W.; and Williams, Peter C., to Whitey Co. Ball valve. 4,685,488, 8-11-87, Cl. 137-328.000.
- Corbitt, Newsome E., III. Bait guard for a fish hook. 4,713,908, 12-22-87, Cl. 43-43.400.
- Corbo, Andrea M.: *See—*
  - Boyle, William J., Jr.; Mares, Frank; and Corbo, Andrea M., 4,710,545, Cl. 525-340.000.
- Corboy, John F., Jr.; Pagliaro, Robert H., Jr.; Jastrzebski, Lubomir L.; and Soydan, Ramazan, to RCA Corporation. Method of depositing uniformly thick selective epitaxial silicon. 4,698,316, 10-6-87, Cl. 437-89.000.
- Corby Industries, Inc.: *See—*
  - Corby, Timothy W., 4,654,745, Cl. 361-171.000.
- Corby, Nelson R., Jr., to General Electric Company. Method of enhancing surface features and detecting same. 4,664,514, 5-12-87, Cl. 356-36.000.
- Corby, Nelson R., Jr., to General Electric Company. Three-dimensional range camera. 4,687,325, 8-18-87, Cl. 356-1.000.
- Corby, Nelson R., Jr., to General Electric Company. Integrated range and luminance camera. 4,687,326, 8-18-87, Cl. 356-5.000.
- Corby, Timothy W., to Corby Industries, Inc. Electronic access control system for use with conventional switch plates and boxes. 4,654,745, 3-31-87, Cl. 361-171.000.
- Corcom, Inc.: *See—*
  - Talend, Donald R., 4,695,115, Cl. 439-76.000.
- Corcoran, Dan E. Repositionable directional markers. 4,680,210, 7-14-87, Cl. 428-42.000.
- Corcoran, Michael E.; Schetzsle, John; and Stopher, James, to H-C Industries, Inc. Tamper-indicating plastic closure. 4,666,053, 5-19-87, Cl. 215-252.000.
- Corcoran, Paul T.: *See—*
  - Burdick, Jon S.; and Corcoran, Paul T., 4,637,665, Cl. 305-54.000.
- Corcoran, Vincent J. Infrared streak camera. 4,661,694, 4-28-87, Cl. 250-213.0VT.
- Corcuff, Pierre A.: *See—*
  - Aubert, Lucien; Anthoine, Philippe; and Corcuff, Pierre A., 4,570,781, Cl. 356-93.000.
- Corda, Giuseppe: *See—*
  - Baldi, Livio; Corda, Giuseppe; Iannuzzi, Giulio; Re, Danilo; and De Santi, Giorgio, 4,703,552, Cl. 437-45.000.
- Cordani, Eugene J.: *See—*
  - Dugge, Richard H.; and Cordani, Eugene J., 4,677,917, Cl. 105-248.000.
- Corday, Eliot; and Meerbaum, Samuel, to Corday, Eliot. Retrograde delivery of pharmacologic and diagnostic agents via venous circulation. 4,689,041, 8-25-87, Cl. 604-53.000.
- Cordeiro, Craig A.; and Graham, John P., to Data General Corporation. Microprocessor based control and switching device. 4,680,788, 7-14-87, Cl. 379-93.000.
- Cordell, Barbara: *See—*
  - Schilling, James W., Jr.; White, Robert T.; and Cordell, Barbara, 4,659,805, Cl. 530-350.000.
- Cordell, Henry L., and Galer, David G. Method and apparatus for gasifying solid organic materials. 4,691,846, 9-8-87, Cl. 222-198.000.
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- Cordero Mining Co.: *See—*
  - Halbrook, Billie L., 4,664,331, Cl. 242-86.50R.
- Cordery, Robert A., to Pitney Bowes Inc. Viscosity switched ink jet. 4,660,058, 4-21-87, Cl. 346-140.00R.
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- Cordes, Hugo; and Kroger, Hans. Operating arm for an earth-moving and foundation machine. 4,709,588, 12-1-87, Cl. 74-103.000.
- Cordes, Walter J.: *See—*
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- Cordes, Werner, to Aristo Graphic Systeme GmbH & Co. KG. Sensor magnifying glass apparatus. 4,693,554, 9-15-87, Cl. 350-244.000.
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- Cordi, Alexis H.: *See—*
  - Roncucci, Romeo; Gillet, Claude L.; Cordi, Alexis H.; Martens, Mark A.; Roba, Joseph L.; Niebes, Paul; Lambelin, Georges E.; and Van Dorsser, William R., 4,639,468, Cl. 514-620.000.
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  - Bales, Thomas O.; and Smith, Kevin W., 4,682,596, Cl. 128-303.140.
  - Batina, William P.; and Gipson, Lamar H., 4,700,707, Cl. 128-419.0PT.
  - Brown, David C., 4,636,149, Cl. 417-322.000.
  - Chilson, Donald A.; and Smith, Kevin W., 4,699,147, Cl. 128-642.000.
  - Cohen, Donald, 4,703,757, Cl. 128-667.000.
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  - DeCote, Robert, 4,674,508, Cl. 128-419.0PT.
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  - DeHaan, Abel; Jones, W. Kinzy; and Krug, Richard D., 4,649,937, Cl. 128-784.000.
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  - Harris, Donald L., 4,711,027, Cl. 29-869.000.
  - Heimer, Malcolm L., 4,712,179, Cl. 364-417.000.
  - Hershenson, Harold, 4,672,962, Cl. 128-303.100.
  - Hess, Stanley R.; and Kovacs, Terri, 4,660,571, Cl. 128-784.000.

  - Hess, Stanley R., 4,664,120, Cl. 128-642.000.
  - Hess, Stanley R., 4,669,488, Cl. 128-785.000.
  - Hess, Stanley R., 4,690,148, Cl. 128-639.000.
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  - Hooven, Michael D., 4,675,003, Cl. 604-9.000.
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  - Kane, James, 4,691,708, Cl. 128-667.000.
  - MacGregor, David C., 4,712,553, Cl. 128-335.500.
  - Perry-Travarton, Charles A., 4,667,686, Cl. 128-785.000.
  - Pinchuk, Leonard, 4,657,544, Cl. 623-1.000.
  - Pohndorf, Peter J., 4,658,835, Cl. 128-785.000.
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  - Riggs, Gary T., 4,636,272, Cl. 156-158.000.
  - Roche, Thomas J., 4,643,202, Cl. 128-786.000.
  - Schroeppel, Edward A., 4,651,740, Cl. 128-419.00P.
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  - Smith, Kevin, 4,634,042, Cl. 228-173.400.
  - Topp, Mark, and Hadden, Sam, 4,665,342, Cl. 313-505.000.
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  - Feijen, Jan; and Hennink, Wilhelmus E., 4,678,671, Cl. 424-443.000.
  - Otten, Josephus M.; and Bockema, Berend, 4,706,678, Cl. 128-635.000.
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  - Halbert, Seymour P., 4,637,880, Cl. 210-638.000.
- Cordis Leads, Inc.: *See*—
  - Harris, Donald L., 4,712,557, Cl. 128-419.00P.
  - Schroeppel, Edward A., 4,708,143, Cl. 128-419.0PG.
- Cordner, Michael A., to Sundstrand Corporation. Multi-range starter-generator drive. 4,708,030, 11-24-87, Cl. 74-686.000.
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  - Fradet, Yves; Cordon-Cardo, Carlos; Whitemore, Willet F., Jr.; Melamed, Myron R.; Old, Lloyd J.; and Lloyd, Kenneth O., 4,643,971, Cl. 435-240.000.
  - Mattes, M. Jules; Lewis, John L., Jr.; Lloyd, Kenneth O.; Old, Lloyd J.; and Cordon-Cardo, Carlos, 4,666,845, Cl. 435-240.000.
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- Cordova, David S.; and Gordon, Rob R., Jr., to Allied Corporation. Polishing method and apparatus. 4,688,309, 8-25-87, Cl. 29-90.00R.
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- Cordry, Kent E. Ground water monitoring device and method. 4,669,554, 6-2-87, Cl. 175-59.000.
- Cordts, Bernhard F., to Varian Associates, Inc. Ferromagnetic films for high density recording and methods of production. 4,714,641, 12-22-87, Cl. 428-610.000.
- Cordwell, Brian; and Hayes, Paul M., to Plessey Overseas Limited. Read only memory control circuit for use in a phase lock loop. 4,692,713, 9-8-87, Cl. 331-1.00A.
- Cordy, Clifford B., Jr.: *See*—
  - Higgins, Marvin L.; Eaton, Bill; Cooper, Eugene A.; and Cordy, Clifford B., Jr., 4,707,692, Cl. 340-805.000.
- Core Industries Inc.: *See*—
  - Feterl, Leon G., 4,712,922, Cl. 366-288.000.
- Corell, Andrew J. Tomato cage. 4,667,438, 5-26-87, Cl. 47-45.000.
- Corella, Arthur P. Package, instrumentation, system and method for packaging flaccid items, filaments and the like. 4,693,365, 9-15-87, Cl. 206-63.300.
- Corella, Arthur P. Heat sealed package with perforated compartment seal. 4,696,404, 9-29-87, Cl. 206-604.000.
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- Corenman, James E.: *See*—
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  - New, William, Jr.; and Corenman, James E., 4,653,498, Cl. 128-633.000.
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- Corey, John A., to Mechanical Technology Incorporated. Two piston V-type Stirling engine. 4,633,668, 1-6-87, Cl. 60-526.000.
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- Corey, Paul F., to Miles Laboratories, Inc. Method for preparing (+)S-2--hydroxy-2-methyl-hexanoic acid. 4,668,822, 5-26-87, Cl. 562-579.000.
- Corey, Paul F., to Miles Laboratories, Inc. Novel compounds for detecting the presence of hydrolytic analytes in a test sample. 4,704,460, 11-3-87, Cl. 549-65.000.
- Corey, Philip D.: *See*—
  - Tustaniwskyj, Jerry I.; and Corey, Philip D., 4,677,370, Cl. 324-51.000.
- Corfield, John R.; and Miller, Andrew S., to Lilly Industries Limited. Intermediates for the preparation of penicillin and cephalosporin compounds. 4,640,798, 2-3-87, Cl. 540-312.000.
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- Corfin Technologies Inc.: *See*—
  - Cornellier, Rene, 4,654,227, Cl. 427-96.000.
- Corflex, Inc.: *See*—
  - Lorenzetti, Theodore V., 4,672,720, Cl. 24-163.00R.
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  - Corghi, Remo, 4,706,458, Cl. 60-546.000.
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- Corhart Refractories: *See*—
  - Clishem, Thomas A.; and Pokallus, Leonard W., 4,657,878, Cl. 501-115.000.
- Cork, Douglas J., to Institute of Gas Technology. Photosynthetic bioconversion sulfur removal. 4,666,852, 5-19-87, Cl. 435-262.000.
- Cork, William H.: *See*—
  - Wirstrom, Peter; and Cork, William H., 4,691,355, Cl. 380-23.000.
  - Wirstrom, Peter; and Cork, William H., 4,694,492, Cl. 380-23.000.
- Corke, Michael: *See*—
  - Jackson, David A.; Corke, Michael; and Kersey, Alan D., 4,642,458, Cl. 250-225.000.
  - Jackson, David A.; Corke, Michael; Kersey, Alan D.; and Jones, Julian D. C., 4,678,909, Cl. 250-231.00P.
  - Jackson, David A.; Corke, Michael; and Kersey, Alan D., 4,714,342, Cl. 356-44.000.
- Corken International Corporation: *See*—
  - Byram, Alfred A.; and Wystemp, Willie, 4,659,298, Cl. 418-253.000.
- Corkery, Gregory O. C., to Arundale, Inc. Support roller. 4,682,393, 7-28-87, Cl. 29-130.000.
- Corkran, William M.; Koeth, Herbert A.; and Pugsley, L. James, to Reliance Electric Company. Brush wear monitor. 4,636,778, 1-13-87, Cl. 340-648.000.
- Corlett, Ewan C. B., to Hydroconic Limited. Ship's steering systems. 4,683,830, 8-4-87, Cl. 114-163.000.
- Corley, Andrew J., III, to Corley Manufacturing Company. Edging apparatus. 4,702,134, 10-27-87, Cl. 83-71.000.
- Corley, Harvey D.: *See*—
  - Davis, John W.; Corley, Harvey D.; Boudreau, Michael P.; and Laughlin, J. Larry, 4,651,258, Cl. 362-147.000.
- Corley, John E.: *See*—
  - Andert, Charles M.; and Corley, John E., 4,688,973, Cl. 409-80.000.
- Corley, Larry S., to Shell Oil Company. Flame-retardant epoxy resins. 4,654,383, 3-31-87, Cl. 523-462.000.
- Corley, Larry S., to Shell Oil Company. Cure rate control in epoxy resin compositions. 4,668,758, 5-26-87, Cl. 528-91.000.
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  - Corley, Andrew J., III, 4,702,134, Cl. 83-71.000.
- Corley, William G.: *See*—
  - Bleecker, William H.; and Corley, William G., 4,655,795, Cl. 51-309.000.
- Cormack, Alexander D.: *See*—
  - Hooper, Anthony W.; Cormack, Alexander D.; and Marchand, Pierre, 4,642,015, Cl. 414-325.000.
- Cormack, Owen R.; and Keane, James H. Spatter guard for paint rollers. 4,696,072, 9-29-87, Cl. 15-248.00A.
- Cormack, Robert J., to Ferranti, plc. Servo positioning system. 4,694,229, 9-15-87, Cl. 318-561.000.
- Corman, Ned E., to AMP Incorporated. Electrical socket. 4,714,441, 12-22-87, Cl. 439-842.000.
- Corman, Ned E.: *See*—
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- Cormed, Inc.: *See*—
  - Hilger, Gerald E., 4,692,146, Cl. 604-93.000.
- Cormier, Gary. Safety bench pressing apparatus. 4,635,930, 1-13-87, Cl. 272-123.000.
- Cormier, Ginette: *See*—
  - Leveille, Serge; Cormier, Jacqueline; Cormier, Ginette; and Brassard, Pierre, 4,694,284, Cl. 340-574.000.
- Cormier, Jacqueline: *See*—
  - Leveille, Serge; Cormier, Jacqueline; Cormier, Ginette; and Brassard, Pierre, 4,694,284, Cl. 340-574.000.
- Cormier, Thomas E., Sr.; and Agrawal, Rakesh, to Air Products and Chemicals, Inc. Process for the separation of air. 4,662,917, 5-5-87, Cl. 62-13.000.
- Cormier, Thomas E., Sr.: *See*—
  - Agrawal, Rakesh; and Cormier, Thomas E., Sr., 4,662,916, Cl. 62-13.000.
  - Agrawal, Rakesh; and Cormier, Thomas E., Sr., 4,662,918, Cl. 62-13.000.
- Corn States Metal Fabricators, Inc.: *See*—
  - Carter, Russell W., 4,662,833, Cl. 425-28.00R.
- Corne, Robert W.; and Hagger, John M. R., to BICC Public Limited Company. Gelled oil filling compounds. 4,709,982, 12-1-87, Cl. 350-96.230.
- Cornelison, Richard C. Mandrel for winding flexible metal catalyst core. 4,637,568, 1-20-87, Cl. 242-68.500.

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Cornelissen, Rene D. W.: *See—*

Rahier, Andre; Cornelissen, Rene D. W.; and Bruggeman Aime, 4,714,533, Cl. 204-262.000.

Cornelius, Billie G. Tree and brush cutting and chipping apparatus. 4,683,924, 8-4-87, Cl. 144-3.00D.

Cornelius, Charles A.: *See—*

Robinson, John S.; Ahlswede, Thomas E.; and Cornelius, Charles A., 4,679,153, Cl. 364-523.000.

Cornelius Company, The: *See—*

Austin, Forrest L.; and Lasley, Duncan T., 4,708,155, Cl. 137-1.000.

Hassell, David A., 4,658,988, Cl. 222-129.100.

McMillin, John R., 4,687,120, Cl. 222-1.000.

McMillin, John R., 4,708,827, Cl. 261-35.000.

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Cornelius, Thomas E., III: *See—*

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Cornell, Carl L.: *See—*

Laiacona, Michael N.; Thompson, William; and Cornell, Carl L., 4,700,060, Cl. 250-214.00R.

Cornell, Charles R.; and Olson, David J., to J. I. Case Company. Engine monitor/control microprocessor for continuously variable power train. 4,648,040, 3-3-87, Cl. 364-424.100.

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Cornell, David D.: *See—*

Lentz, Carl M.; Overton, James R.; and Cornell, David D., 4,691,050, Cl. 562-406.000.

Cornell, John A. Nail extension composition. 4,704,303, 11-3-87, Cl. 427-53.100.

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Kosikowski, Frank V.; and Jimenez-Flores, Rafael, 4,689,245, Cl. 426-72.000.

Meister, Alton; and Williamson, Joanne M., 4,647,571, Cl. 514-369.000.

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Becker, Carl G.; Francus, Tova; and Siskind, Gregory W., 4,702,907, Cl. 424-88.000.

Bernius, Mark T.; and Morrison, George H., 4,663,944, Cl. 62-514.00R.

Bowers, William S., 4,656,189, Cl. 514-456.000.

Chao, Pane-Chane; and Ku, Walter H., 4,673,960, Cl. 357-22.000.

Chen, Hung-Chang; and Zall, Robert R., 4,677,069, Cl. 435-226.000.

Coggins, Leroy; Murphy, Brian R.; Holmes, Dorothy F.; Anguish, Lynne J.; and Gillespie, James H., 4,683,137, Cl. 424-89.000.

Cool, Terrill A., 4,657,872, Cl. 436-154.000.

Dalman, G. Conrad; and Kondoh, Hiroshi, 4,680,538, Cl. 324-58.00R.

Eastman, Lester F., 4,649,405, Cl. 357-3.000.

Fenner, Brian A., 4,706,525, Cl. 81-15.900.

Gharachorloo, Nader, 4,658,247, Cl. 340-747.000.

Goldstein, Marc, 4,635,636, Cl. 128-334.00R.

Isaacson, Michael; and Lewis, Aaron, 4,659,429, Cl. 156-644.000.

Isaacson, Michael; and Lewis, Aaron, 4,662,747, Cl. 356-317.000.

King, Paul L.; Grimes, Joseph E.; and Cochran, Richard C., 4,679,951, Cl. 400-110.000.

Kitai, Adrian H.; and Wolga, George J., 4,646,079, Cl. 340-781.000.

Kosikowski, Frank V.; and Jimenez-Flores, Rafael, 4,689,151, Cl. 210-641.000.

Kraig, Richard P., 4,700,709, Cl. 128-635.000.

Laurence, Jeffrey C., 4,665,032, Cl. 435-240.000.

Meister, Alton, 4,710,489, Cl. 514-18.000.

Ravnitzky, Michael J., 4,637,576, Cl. 244-145.000.

Saxena, Brij B.; and Rathnam, Premila, 4,693,969, Cl. 435-7.000.

Tang, Chung L.; and Donaldson, William F., 4,639,923, Cl. 372-21.000.

Timmons, Michael B., 4,700,887, Cl. 236-49.000.

Van Gieson, Edward; Wicks, Gary W.; Elias, Eric; and Eastman, Lester F., 4,700,353, Cl. 372-26.000.

Webb, Watt W.; and Ferguson, Daniel, 4,664,513, Cl. 356-28.000.

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Cornell, S. Douglas, to Vepa Aktiengesellschaft. Solar water heater. 4,667,653, 5-26-87, Cl. 126-438.000.

Cornell, William D.; Gilson, Richard W.; Burkholder, Richard A.; and Ausherman, Ronald W., to Sherwood Medical Company. Biopsy device and method. 4,702,261, 10-27-87, Cl. 128-754.000.

Cornellier, Rene, to Corfin Technologies Inc. Method and apparatus for DIP tinning. 4,654,227, 3-31-87, Cl. 427-96.000.

Cornellier, Vincent; and Ziegler, Thomas K. Biomonitoring stress management method and device. 4,683,891, 8-4-87, Cl. 128-630.000.

Cornelson, Donald P.; and Carlson, Jess W., to C & C Concepts, Inc. Variable surface board game. 4,695,056, 9-22-87, Cl. 273-262.000.

Cornelssen, Cornelius W.: *See—*

Stanescu, Mircea S.; Weinstein, David J.; and Cornelssen, Cornelius W., 4,648,914, Cl. 148-16.000.

Cornely, Wolfgang; Stein, Dietrich; Maidl, Bernhard; and Kubicki, Karl, to Bergwerksverband GmbH. Method of forming underground ducts, conduits and the like. 4,652,174, 3-24-87, Cl. 405-146.000.

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Cornforth, Malcolm W.: *See—*

Albrecht, Charles W.; and Cornforth, Malcolm W., 4,674,316, Cl. 73-3.000.

Cornibert, Jacques: *See—*

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Cornils, Boy: *See—*

Bahrmann, Helmut; Cornils, Boy; Lipps, Wolfgang; Lappe, Peter; and Springer, Helmut, 4,673,535, Cl. 260-501.150.

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Corning Glass Works: *See—*

Adler, Meryle D. W., 4,713,913, Cl. 51-165.900.

Alder, Meryle D. W., 4,702,041, Cl. 51-165.710.

Amos, Lynn G.; Saikkonen, Stuart L.; and Young, Donald R., 4,662,307, Cl. 118-50.100.

Bailey, Lorraine F.; and Bennett, Richard J., 4,710,217, Cl. 65-31.000.

Bardhan, Pronob, 4,712,156, Cl. 361-321.000.

Barlier, Pernette R. M.; and Mazeau, Jean-Pierre, 4,687,751, Cl. 501-32.000.

Beall, George H.; and MacDowell, John F., 4,666,867, Cl. 501-5.000.

Beall, George H., 4,687,749, Cl. 501-5.000.

Berkey, George E., 4,684,384, Cl. 65-3.120.

Bhagavatula, Venkata A., 4,715,679, Cl. 350-96.330.

Bocko, Peter L.; Thompson, David A.; and Wein, William J., 4,645,524, Cl. 65-18.100.

Borrelli, Nicholas F.; and Morse, David L., 4,684,222, Cl. 350-420.000.

Borrelli, Nicholas F.; Hares, George B.; Smith, Dennis W.; and Wedding, Brent M., 4,710,430, Cl. 428-432.000.

Boyd, David C., 4,659,317, Cl. 445-37.000.

Brothers, Jack A.; Kane, William T.; Brouneus, Harold A.; Layton, Margaret M.; and Walsh, Paul L., 4,659,435, Cl. 204-1.00T.

Cavender, Ralston R., Jr.; Connolly, Elizabeth S.; Powers, Dale R.; and Ritter, John E., 4,684,383, Cl. 65-3.120.

Chyung, Kenneth; Fenn, Philip M.; and Taylor, Mark P., 4,707,458, Cl. 501-4.000.

Danielson, Paul S., 4,693,987, Cl. 501-70.000.

DeAngelis, Thomas P.; and Lachman, Irwin M., 4,637,995, Cl. 502-439.000.

DeAngelis, Thomas P.; and Day, John P., 4,681,624, Cl. 75-28.000.

Dumbaugh, William H., Jr., 4,634,683, Cl. 501-32.000.

Dumbaugh, William H., Jr., 4,634,684, Cl. 501-69.000.

Dumbaugh, William H., Jr., 4,666,868, Cl. 501-32.000.

Dumbaugh, William H., Jr., 4,666,869, Cl. 501-32.000.

Ely, William F., 4,636,260, Cl. 106-198.000.

Fong, Gerald D., 4,658,087, Cl. 136-264.000.

Gadkaree, Kishor P.; Montierth, Max R.; and Taylor, Mark P., 4,673,658, Cl. 501-89.000.

Gadkaree, Kishor P.; Haynes, William L.; and Lu, Kun-Er, 4,711,860, Cl. 501-9.000.

Gannon, John R., 4,664,473, Cl. 350-96.330.

Goepfert, Serge P. P.; Renault, Serge A. M.; and Roger, Francoise M. M., 4,648,925, Cl. 156-153.000.

Goepfert, Serge P. P.; Renault, Serge A. M.; Roger, Francoise M. M.; Themont, Jean-Pierre; and Vachet, Andre J., 4,683,153, Cl. 428-1.000.

Green, Terry D.; Kao, Kenneth C.; O'Loughlin, Robert J., Jr.; and Reese, Robert C., 4,643,465, Cl. 285-236.000.

Grossman, David G.; and Johnson, Janet L. M., 4,652,312, Cl. 106-35.000.

Guile, Donald L., 4,659,680, Cl. 501-104.000.

Hares, George B.; and Morse, David L., 4,683,168, Cl. 428-335.000.

Hartmann, Michael J.; Lo, Kuang-hsin K.; and Nolan, Daniel A., 4,699,831, Cl. 428-35.000.

Hayes, David V., 4,687,563, Cl. 204-224.00M.

Holleran, Louis M.; and Martin, Francis W., 4,714,687, Cl. 501-9.000.

Keck, Donald B., 4,704,151, Cl. 65-4.100.

Lachman, Irwin M.; and Golino, Carlo, 4,657,880, Cl. 502-64.000.

Mensah, Thomas O.; and Powers, Dale R., 4,636,405, Cl. 427-54.100.

Mensah, Thomas O.; Powers, Dale R.; and Burton, Clement D., 4,692,615, Cl. 250-231.00R.

Montierth, Max R., 4,670,205, Cl. 264-71.000.

Montierth, Max R., 4,715,576, Cl. 249-60.000.

Montierth, Max R., 4,715,801, Cl. 425-110.000.

Pinckney, Linda R., 4,687,750, Cl. 501-10.000.

Powers, Dale R., 4,639,079, Cl. 350-96.330.

Powers, Dale R., 4,714,488, Cl. 65-13.000.

Rittler, Hermann L., 4,676,929, Cl. 252-315.200.

Rittler, Hermann L., 4,715,987, Cl. 252-315.500.

Schmitt, Paul S., 4,696,692, Cl. 65-102.000.

Tick, Paul A., 4,668,641, Cl. 501-37.000.

Walsh, Paul L., 4,644,138, Cl. 219-501.000.

Wu, Shy-Hsien, 4,675,235, Cl. 428-363.000.

Cornish, Darrell G.; and Hartl, Carroll P., to Oscar Mayer Foods Corporation. Apparatus and method for pressure resizing of products. 4,688,369, 8-25-87, Cl. 53-436.000.

Cornish, Francois P. Hydrogen supply unit. 4,702,894, 10-27-87, Cl. 422-186.260.

Corno, Maria L.: *See—*

Doria, Gianfederico; Romeo, Ciriaco; and Corno, Maria L., 4,670,457, Cl. 514-470.000.

Cornsweet, Tom N., and Hersh, Samuel, to Rodenstock Instrument Corporation. Ocular-fundus analyzer. 4,715,703, 12-29-87, Cl. 351-205.000.

Cornut, Philippe: *See—*

Belot, Dominique; Rade, Jean-Yves; Piffard, Jean-Francois; Larquet, Christian; and Cornut, Philippe, 4,698,218, Cl. 423-347.000.

Cornwall, Kenneth R. Firestop fitting for carrier mounted water closets. 4,638,829, 1-27-87, Cl. 137-75.000.

Cornwell, James H. High BTU fuel element. 4,670,018, 6-2-87, Cl. 44-1.00E.

Cornwell, Lionel B., to Intermag Incorporated. Transformer utilizing selectively loaded reactance to control power transfer. 4,634,958, 1-6-87, Cl. 323-255.000.

Corob S.R.L. Automatic Machinery Project: *See—*

Rossetti, Edoardo, 4,705,083, Cl. 141-104.000.

Coromed International: *See—*

Woudenberg, Cornelius; and Skinner, Bruce A. J., 4,664,098, Cl. 128-53.000.

Corominas, Narciso L., to Metalquimia, S.A. Bulk meat feed machine. 4,641,691, 2-10-87, Cl. 141-73.000.

Corominas, Narciso L., to Metalquimia, S.A. Injecting machine for meat pieces. 4,690,046, 9-1-87, Cl. 99-533.000.

Corona Clipper Company: *See—*

Dudley, Lynn A.; and Kamentser, Boris B., 4,662,551, Cl. 224-211.000.

Corona Engineering Co., Ltd.: *See—*

Kikuchi, Yoshikazu; and Nakao, Reiro, 4,713,092, Cl. 55-130.000.

Corona, Fredrick W.: *See—*

Owens, Brian T.; and Corona, Fredrick W., 4,637,608, Cl. 272-134.000.

Coronado, M. P.: *See—*

Fraser, James M., III; and Coronado, M. P., 4,657,078, Cl. 166-123.000.

Coronel, Paul K. Coronel radiant drive systems. 4,700,589, 10-20-87, Cl. 74-705.000.

Coronelli, Carolina: *See—*

Malabarba, Adriano; Strazzolini, Paolo; Borghi, Angelo; Cavalleri, Bruno; and Coronelli, Carolina, 4,645,827, Cl. 530-322.000.

Malabarba, Adriano; Strazzolini, Paolo; Borghi, Angelo; Cavalleri, Bruno; and Coronelli, Carolina, 4,650,855, Cl. 530-322.000.

Malabarba, Adriano; Borghi, Angelo; Strazzolini, Paolo; Cavalleri, Bruno, and Coronelli, Carolina, 4,699,977, Cl. 530-322.000.

Coroneos, James H. Apparatus for packing and forming ground beef. 4,648,153, 3-10-87, Cl. 17-32.000.

Coronet Industries, Inc.: *See—*

Clemente, Ralph, 4,687,038, Cl. 160-84.00R.

Cook, Donald A., 4,678,136, Cl. 242-131.000.

Duck, Michael H., 4,671,784, Cl. 493-29.000.

Coronet-Werke Heinrich Schlerf GmbH: *See—*

Weihrauch, Georg, 4,637,660, Cl. 300-21.000.

Weihrauch, Georg, 4,646,381, Cl. 15-167.00R.

Corot, Anne-France: *See—*

Brochon, Marie-Jose ; and Corot, Anne-France, 4,668,779, Cl. 536-121.000.

Corporate Communications Consultants, Inc.: *See—*

Belmares-Sarabia, Armand; and Chayka, Stanley J., 4,679,067, Cl. 358-29.000.

Belmares-Sarabia, Armand; and Chayka, Stanley J., 4,694,329, Cl. 358-22.000.

Corpuz, Marcos Y.: *See—*

Carr, Richard P.; and Corpuz, Marcos Y., 4,661,120, Cl. 44-57.000.

Corr, James J.: *See—*

Caswell, Michael L.; Corr, James J.; Dobrovolny, Mark S.; Lander, Lynn H.; Narath, William R.; and Theiler, Richard F., 4,695,395, Cl. 252-121.000.

Dobrovolny, Mark S.; Corr, James J.; and Narath, William R., 4,663,070, Cl. 252-121.000.

Corra-Board Products Co., Inc.: *See—*

Cline, Thomas L., 4,673,608, Cl. 428-182.000.

Cline, Thomas L., 4,703,395, Cl. 361-417.000.

Cline, Thomas L., 4,703,854, Cl. 206-424.000.

Cline, Thomas L., 4,709,927, Cl. 273-286.000.

Cline, Thomas L., 4,710,417, Cl. 428-182.000.

Corrales, Patrick G., to ITT Corporation. Retrofittable optic fiber contact assembly. 4,712,860, 12-15-87, Cl. 350-96.200.

Corrao, Mark; and Shaffer, David T., to AMP Incorporated. Electrical component having fuse element, and method of using same. 4,680,568, 7-14-87, Cl. 337-186.000.

Correa, Sanjay M.: *See—*

Leonard, Gary L.; and Correa, Sanjay M., 4,655,175, Cl. 123-25.00C.

Correct Swing Corp. of America: *See—*

Huber, Joe B., 4,664,388, Cl. 273-186.00A.

Correcta GmbH: *See—*

Blecher, Klaus; Fiedler, Reinhard; Beermann, Hubert; and Wagener, Gerhard, 4,669,133, Cl. 4-538.000.

Correge, Gilbert; Dominique, Eugene; and Ciprian, Danilo, to Correge, Gilbert. Safety device against a sudden decompression in the luggage compartment of an aircraft. 4,703,908, 11-3-87, Cl. 244-118.500.

Correia, Joao M. G., to Enichem Elastomers Limited. Disproportionation of unsaturated acids in rosin or tall oil. 4,659,513, 4-21-87, Cl. 260-97.000.

Correll, Charles D., Jr., to Pierce-Correll Corporation. Telescopic boom assembly having high dielectric properties. 4,676,340, 6-30-87, Cl. 182-2.000.

Correll, James F., Jr., to Dixie Yarns, Inc. Apparatus and method for tensionless winding of low modulus elastic yarns into a cylindrical package for uniform dyeing. 4,688,734, 8-25-87, Cl. 242-18.00R.

Correll, John D., to Lamson & Sessions Co., The. Energy absorber. 4,688,662, 8-25-87, Cl. 188-268.000.

Corrette, Richard H., to Colt Industries Operating Corp. Cutter for thread rolling dies. 4,666,348, 5-19-87, Cl. 407-24.000.

Corrette, Richard H., to Colt Industries Operating Corp. Thread rolling dies. 4,713,954, 12-22-87, Cl. 72-88.000.

Corrie, Brian L.; Benn, Pauline; and McElevey, Michael J., to Tektronix, Inc. Self aligned zero overlap charge coupled device. 4,677,737, 7-7-87, Cl. 29-571.000.

Corrigan, Alfred E.: *See—*

Stella, Joseph A.; and Corrigan, Alfred E., 4,645,322, Cl. 354-180.000.

Corrigan, Dennis A., to General Motors Corporation. Nonsintered nickel electrode. 4,663,256, 5-5-87, Cl. 429-223.000.

Corrigan, Francis R.: *See—*

Lavens, Thomas R.; Corrigan, Francis R.; Shott, Richard L.; and Bovenkerk, Harold P., 4,673,414, Cl. 51-293.000.

Corrigan, John J.: *See—*

Samosky, Paul E.; Corrigan, John J.; Morehouse, Dale H.; and Szkaradek, Edward J., 4,651,935, Cl. 241-65.000.

Szkaradek, Edward J.; and Corrigan, John J., 4,709,863, Cl. 241-69.000.

Corrington, Donald G.; Hawkins, Stephen D.; and Sable, Daniel M., to RCA Corporation. Apparatus and method for effecting a key change via a cryptographically protected link. 4,688,250, 8-18-87, Cl. 380-23.000.

Corris, C. James; and Beck, Blaine E., to Cellutron Corporation. Security system for cordless extension telephones. 4,654,481, 3-31-87, Cl. 379-62.000.

Corriu, Robert J.; Cerveau, Genevieve E.; Chuit, Claude G.; and Reye, Catherine, to Centre National de la Recherche Scientifique. Process for the preparation of hydrogenosilanes or halogenosilanes. 4,665,209, 5-12-87, Cl. 556-474.000.

Corriveau, Marcel L. M.: *See—*

LaRoche, Allan R.; Butcher, Robert A.; Kelleher, Denis M.; Corriveau, Marcel L. M.; and Dubuc, Jean A., 4,663,894, Cl. 52-15.000.

Corrotex Limited: *See—*

Page, Robert G.; and Milton, John S., 4,706,706, Cl. 137-527.800.

Corrpro Companies, Inc.: *See—*

Baach, Michael K., 4,710,644, Cl. 307-95.000.

Corrugated Paper Corporation: *See—*

Lopez, Louis, 4,671,450, Cl. 229-27.000.

Corrugated Paper Machinery Corp.: *See—*

Smith, Edwin K., 4,674,739, Cl. 271-268.000.

Cors, Craig M.; and Kadlubowski, Joseph C., to Harper-Wyman Company. Electric/gas oven thermostat. 4,710,742, 12-1-87, Cl. 337-323.000.

Corsaut, Otho O., III; and Timmons, Donald. Bag holder. 4,664,348, 5-12-87, Cl. 248-99.000.

Corsello, Vincent: *See—*
Glass, Michael; Corsello, Vincent; and Kielczewski, Ewa, 4,675,190, Cl. 426-5.000.
Sheu, Shan-Shan; Yang, Robert K.; and Corsello, Vincent, 4,698,232, Cl. 426-572.000.
Corsentino, John A.: *See—*
Martyak, Nicholas M.; Corsentino, John A.; and McMullen, Warren H., 4,711,705, Cl. 204-34.000.
Corsette, Douglas F. Manually operated dispensing pump. 4,640,443, 2-3-87, Cl. 222-321.000.
Corsetti, John A. Waterbed frames. 4,691,395, 9-8-87, Cl. 5-400.000.
Corsi, Armando, to JOBS S.p.A. Rotating machining head for automatic tool machines. 4,652,190, 3-24-87, Cl. 409-137.000.
Corsi, Gianfranco: *See—*
Credali, Lino; Corsi, Gianfranco; and Chiolle, Antonio, 4,710,336, Cl. 264-171.000.
Corso, Anthony J.: *See—*
Phillips, Thomas S.; and Corso, Anthony J., 4,699,624, Cl. 8-524.000.
Corso, Philip P. Fault detector. 4,647,920, 3-3-87, Cl. 340-650.000.
Cortekar, Hans-Wolfgang: *See—*
Hollenberg, Detlef; Cortekar, Hans-Wolfgang; Giede, Karl; and Hoffkes, Horst, 4,666,712, Cl. 424-71.000.
Cortelyou, David H., Jr. Window paint scraper. 4,709,478, 12-1-87, Cl. 30-169.000.
Cortese, Richard: *See—*
Eckenhoff, James B.; Cortese, Richard; and Landrau, Felix A., 4,684,524, Cl. 424-469.000.
Eckenhoff, James B.; Cortese, Richard; and Landrau, Felix A., 4,692,336, Cl. 424-468.000.
Guittard, George V.; Deters, Joseph C.; Theeuwes, Felix; and Cortese, Richard, 4,673,405, Cl. 604-890.000.
Cortesi, Paolo; Donati, Gianni; and Saggese, Giuseppe, to Montedison S.p.A. Apparatus for preparing monodispersed, spherical, nonagglomerated metal oxide particles having a size below one micron. 4,687,643, 8-18-87, Cl. 422-150.000.
Cortez, Fermin M.: *See—*
Bertram, James L.; Walker, Louis L.; McCrary, Avis L.; and Cortez, Fermin M., 4,649,188, Cl. 528-165.000.
Cortinchi, Henri: *See—*
Vallee, Antoine; and Cortinchi, Henri, 4,645,565, Cl. 162-123.000.
Cortlever, Nico G. Profile to form a watertight screen in the ground and method of disposing the same. 4,664,560, 5-12-87, Cl. 405-258.000.
Cortopassi, Jeffery J., to Taco Bell. Content-identifying carton structure. 4,684,023, 8-4-87, Cl. 206-459.000.
Cortot, Jean P.: *See—*
Blanchard, Pierre; and Cortot, Jean P., 4,679,301, Cl. 29-571.000.
Cortronic Corporation: *See—*
Russell, Ted W., 4,669,485, Cl. 128-679.000.
Cortronix, Inc.: *See—*
Schafer, Curtiss R., 4,711,243, Cl. 128-420.500.
Corts, Douglas E.: *See—*
Gerdes, Keith W.; Corts, Douglas E.; Jenkins, Thomas E.; Lesmeister, Stephen C.; and Welle, Louis A., Sr., 4,644,698, Cl. 49-478.000.
Corvazier, Philippe; and Dousteyssier, Jacques, to British Petroleum Company p.l.c., The. Level indicator for a liquid in a container. 4,691,113, 9-1-87, Cl. 250-577.000.
Corvese, Vincent, to Oakwood Lymber & Millwork Co. Limited. Recessed decorative moulding for wood panel. 4,706,431, 11-17-87, Cl. 52-313.000.
Corvi-Mora, Camillo. Method of preparing sobrerol and the pharmaceutical application of the sobrerol thus obtained. 4,639,469, 1-27-87, Cl. 514-729.000.
Corvi Mora, Camillo, to Camillo Corvi S.p.A. Ester of (+) 6-methoxy-α-methyl-2-naphthalene acetic acid having mucosecretolytic, anti-inflammatory, analgesic, antipyretic activity, a process for its preparation and pharmaceutical compositions thereof. 4,665,224, 5-12-87, Cl. 560-56.000.
Corvi Mora, Camillo, to Camillo Corvi S.p.A. Erythromycin salt with mucosecretolytic and fluidizing activity and pharmaceutical compositions thereof. 4,672,055, 6-9-87, Cl. 514-29.000.
Corwin, Charles E.; and Moore, Neal W., to Boeing Company, The. Automatic fault reporting system. 4,675,675, 6-23-87, Cl. 340-945.000.
Corwin, Rollin K., to Codep International, Inc. Apparatus and method for indicating the rotational speed of a fan. 4,675,663, 6-23-87, Cl. 340-671.000.
Corwin, Rudolph E., to Honeywell Inc. Apparatus for connecting pin grid array devices to printed wiring boards. 4,674,811, 6-23-87, Cl. 439-69.000.
Cory, Charles E. Fruit shredding apparatus. 4,673,135, 6-16-87, Cl. 241-82.100.
Cory, John S. Automatic ribbon re-inker. 4,690,576, 9-1-87, Cl. 400-200.000.
Cory, Michael L.: *See—*
Booth, Dwight E.; and Cory, Michael L., 4,685,202, Cl. 29-607.000.
Cory, Milton T., to Radiator Specialty Company. Traffic control element. 4,674,431, 6-23-87, Cl. 116-63.00P.
Cory, Robert M., to General Dynamics Land Systems, Inc. Endless track and components thereof for track laying vehicle. 4,700,992, 10-20-87, Cl. 305-51.000.
Cosatto SpA: *See—*
Zuliani, Alessandro, 4,700,423, Cl. 15-160.000.
Cosby, Finton G. Shock absorbing athletic equipment with protective pads. 4,698,845, 10-13-87, Cl. 2-2.000.
Cosby, Thomas L. Closed cycle external combustion engine. 4,663,939, 5-12-87, Cl. 60-650.000.
Cosco, Inc.: *See—*
Knoedler, Roy E.; Gerken, Donald L.; and Morton, Kenneth P., 4,662,683, Cl. 297-488.000.
Ku, Chol, 4,699,392, Cl. 280-87.02W.
Maloney, Kevin, 4,653,805, Cl. 297-284.000.
Maloney, Kevin, 4,696,514, Cl. 297-284.000.
Cosden Technology, Inc.: *See—*
Butler, James R.; and Menard, Kevin P., 4,665,258, Cl. 585-475.000.
MacLaughlin, Don N., 4,636,349, Cl. 264-549.000.
Martin, Raymond H., 4,668,175, Cl. 425-388.000.
Morris, Jeffrey D.; and Fuller, Robert A., 4,677,171, Cl. 526-68.000.
Searl, Alonzo H.; Hahn, Granville J.; and Rutledge, Raleigh N., 4,713,271, Cl. 428-36.000.
White, Gerald W., 4,667,620, Cl. 118-50.100.
White, Gerald W., 4,673,586, Cl. 427-38.000.
Cosentino, Louis C.; and Nelson, Wayne L., to Renal Systems, Inc. Dialysis solution preparation from prepackaged dry chemicals. 4,664,891, 5-12-87, Cl. 422-269.000.
Cosentino, Roberto F.; and Bonapace, Franco B., to Pharmindev Ltd. Electrostatic application of coating materials. 4,702,932, 10-27-87, Cl. 427-33.000.
Cosentino, Stephen J.; Rugg, James M.; and Mauntel, Richard W., to Motorola, Inc. Buried n^- channel implant for NMOS transistors. 4,701,775, 10-20-87, Cl. 357-23.120.
Cosentino, Victor A., Jr. Automatically-released arrow holder. 4,685,439, 8-11-87, Cl. 124-41.00A.
Cosenza, Frank J.; and Yamamoto, Albert K., to Rexnord Inc. Tangless helically coiled insert. 4,645,398, 2-24-87, Cl. 411-438.000.
Cosgrove, John: *See—*
Oliver, Stewart W.; and Cosgrove, John, 4,710,919, Cl. 370-96.000.
Cosgrove, William J., to Harris Corporation. Contour correction system when one color signal is low. 4,672,431, 6-9-87, Cl. 358-37.000.
Cosh, Ian S., to U.S. Philips Corporation. Generating a chroma keying signal. 4,636,838, 1-13-87, Cl. 358-22.000.
Cosh, Ian S.: *See—*
Cole, David J.; and Cosh, Ian S., 4,636,839, Cl. 358-22.000.
Coskie, Joseph: *See—*
Mudge, Dennis; Coskie, Joseph; Jacobs, Edward H.; and Harris, David R., 4,643,410, Cl. 269-64.000.
Cosma, Frank. Tracheal cannula. 4,686,977, 8-18-87, Cl. 128-207.170.
Cosman, Eric R. Pressure-balanced telemetric pressure sensing system and method therefore. 4,653,508, 3-31-87, Cl. 128-748.000.
Cosman, Eric R. Telemetric differential pressure sensing system and method therefore. 4,660,568, 4-28-87, Cl. 128-748.000.
Cosman, Eric R. Telemetric in-vivo calibration method and apparatus using a negative pressure applicator. 4,676,255, 6-30-87, Cl. 128-748.000.
Cosman, Eric R.: *See—*
Swann, Karl W.; and Cosman, Eric R., 4,646,752, Cl. 128-746.000.
COSMED S.r.l.: *See—*
Brugnoli, Siro, 4,658,832, Cl. 128-719.000.
Cosmo Plastics Company: *See—*
Gordon, Albert, 4,716,394, Cl. 336-192.000.
Cosmonor S.A.: *See—*
Meyer, Gabriel; and Howald, Ernst, 4,703,781, Cl. 141-5.000.
Cosmos, Pete; Scully, Michael J.; and Stephenson, Brian D., to AMP Incorporated. Shielding kit for electrical connectors terminating multiconductor 360 degree shielded cable. 4,687,263, 8-18-87, Cl. 439-108.000.
Cosser, Harry F., to Schlumberger Electronics (U.K.) Limited. Fluid level measurement system. 4,646,569, 3-3-87, Cl. 73-304.00R.
Cosser, Harry F., to Schlumberger Electronics, Inc. Side arm fluid level gauge with spaced-apart sensors for density error compensation. 4,711,117, 12-8-87, Cl. 73-1.00H.
Cossetti, Giuliano, to Seima Italiana S.p.A. Connectors for the connection of lights on motor vehicles. 4,678,258, 7-7-87, Cl. 439-571.000.
Cossey, Jackie J. System for viewing an infant in the rear seat of a vehicle. 4,702,572, 10-27-87, Cl. 350-639.000.
Cosson, Colin; and Hopper, Laurence E. Silk screen transfer printing apparatus for cylindrical objects. 4,640,188, 2-3-87, Cl. 101-39.000.
Cossuth, Joseph J.: *See—*
Fish, Gerald N.; and Cossuth, Joseph J., 4,708,244, Cl. 206-315.110.
Cost, Konstantine. Method and composition for deactivation of uncured paint. 4,661,262, 4-28-87, Cl. 210-705.000.
Costa De Beauregard, Francois: *See—*
Slodzian, Georges; Costa De Beauregard, Francois; Daigne, Bernard; and Girard, Francois, 4,638,160, Cl. 250-296.000.
Costa, Giorgio: *See—*
Fragola, Guglielmo, 4,655,938, Cl. 210-798.000.
Costa, Jonathan L.; and Hofmann, Gunter A., to Maxwell Laboratories Inc. Malignancy treatment. 4,665,898, 5-19-87, Cl. 128-1.300.
Costa, Jorge; and Reichel, Wolfgang, to Hermes Precisa International S.A. Cassette for a sheet feed device. 4,637,601, 1-20-87, Cl. 271-160.000
Costa, Jorge, to Hermes Precisa International S.A. Multicolor thermal printer. 4,647,232, 3-3-87, Cl. 400-120.000.
Costa, Jorge; and Reichel, Wolfgang, to Hermes Precisa International S.A. Feed device for a printer or typewriter. 4,667,947, 5-26-87, Cl. 271-9.000.
Costa, Lorenzo F.; Harrington, David C.; and Miller, Raymond S., to Eastman Kodak Company. Solid scintillator counting compositions. 4,692,265, 9-8-87, Cl. 252-301.170.
Costa Mas, Miguel-Angel. Integral accelerator-brake control for motorcycles. 4,681,198, 7-21-87, Cl. 192-3.00S.

sta, Michael J.; and Shapiro, Jesse B., to International Business Machines Corporation. Concentric via plasma panel. 4,689,617, -25-87, Cl. 340-771.000.
sta, Peter F.: *See—*
Moll, Frederic H.; Roth, Alex T.; Costa, Peter F.; and Holmes, William A., 4,654,030, Cl. 604-165.000.
sta, Robert E., to Champion International Corporation. Bag with handle and method of making the same. 4,691,369, 9-1-87, Cl. 83-17.000.
stain Petrocarbon Limited: *See—*
Czarnecki, Bogdan A.; and Limb, David I., 4,675,030, Cl. 55-16.000.
Duckett, Melvyn; and Limb, David I., 4,639,257, Cl. 55-16.000.
stan S.p.A.: *See—*
Casanova, Giuseppe; and De Zolt, Ivano, 4,635,447, Cl. 62-448.000.
stantini, Giorgio, to Honeywell Information Systems Italia. Microprocessor system having a multiplexed address/data bus which communicates with a plurality of memory and input/output devices ncluding TTL output gates. 4,694,394, 9-15-87, Cl. 364-200.000.
stantino, Paolo: *See—*
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stanza, Daniel W.: *See—*
Appel, James J.; Costanza, Daniel W.; and Dastin, Richard M., 4,687,317, Cl. 355-3.00R.
Spinelli, Richard A.; Costanza, Daniel W.; Statt, William L.; and Glab, Edwin F., 4,669,857, Cl. 355-8.000.
stanzo, Phillip A.: *See—*
Ward, Thomas H.; Costanzo, Phillip A.; Pietrasz, Vincent; and Soeder, Edmund J., 4,642,516, Cl. 313-481.000.
Ward, Thomas H.; Costanzo, Phillip A.; Pietrasz, Vincent; and Soeder, Edmand J., 4,710,344, Cl. 419-8.000.
star Corporation: *See—*
Lyman, George F.; and Mathus, Gregory, 4,683,058, Cl. 210-359.000.
Mathus, Gregory; Lyman, George; and Looney, Kevin, 4,690,757, Cl. 210-232.000.
star, Lowell W. Electrical connector. 4,685,752, 8-11-87, Cl. 439-96.000.
stello, Carmon R.: *See—*
Petty, Terry D.; Costello, Carmon R.; Song, Kun K.; Chabot, Luc G.; Fujita, Tadahiro; Hirose, Haruki; and Yoshimura, Nobutoshi, 4,639,167, Cl. 405-217.000.
stello, Christine A.: *See—*
Chen, Shih-Ruey T.; Costello, Christine A.; and Matz, Gary F., 4,652,623, Cl. 526-287.000.
stello, Coln, J. Apparatus for elevating and lowering scaffolding. 4,657,113, 4-14-87, Cl. 182-63.000.
stello, David, to Texas A&M University. Fiber optic probe for quantification of colorimetric reactions. 4,682,895, 7-28-87, Cl. 56-402.000.
stello, James G., to Olympus Corporation. Fiberscopic device for nspection of internal sections of construction, and method for using same. 4,696,544, 9-29-87, Cl. 350-96.260.
stello, Louis B., to Zenith Electronics Corporation. Reduced EMI noise in switched-mode power supply. 4,686,614, 8-11-87, Cl. 363-17.000.
stello, Norman F.: *See—*
Logic, Jeffrey A.; Awe, Russell C.; Costello, Norman F.; and Saperstein, Zalman P., 4,651,815, Cl. 165-76.000.
Saperstein, Z. Philip; Arneson, Dean A.; Larrabee, Scott R.; Logic, Jeffrey A.; Costello, Norman F.; and Awe, Russell C., 4,688,311, Cl. 29-157.30R.
Struss, Rodney A.; Costello, Norman F.; and Granetzke, Dennis C., 4,651,816, Cl. 165-76.000.
stello, Rocky C.; and Dixon, Robert L., to Stauffer Chemical Company. Method of disposing of materials by dissolving in acid and then incinerating. 4,715,300, 12-29-87, Cl. 110-346.000.
stello, Stephen G.: *See—*
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stello, Thomas J.: *See—*
London, J. Reid; Bell, Cecil R., Jr.; Edwards, A. Russell; Lathery, Willie M.; Efird, Lee A.; Porter, Richard M.; Shaw, Stephen K.; Costello, Thomas J.; Pike, August A.; Bell, Donald G.; and Setliff, Harold, 4,640,162, Cl. 83-152.000.
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ster, Charles S.; and Edgington, Nicholas. Timepiece. 4,659,232, 4-21-87, Cl. 368-223.000.
stes, Didier, to Commissariat a l'Energie Atomique. Nuclear reactor cooled by a liquid metal. 4,671,922, 6-9-87, Cl. 376-285.000.
stes, Michel L.: *See—*
Montanari, Gerard M.; Baudelot, Francis E.; and Costes, Michel L., 4,695,997, Cl. 370-13.000.
ston, David B., to Torcon Products, Inc. Fractional frequency converter using zero switching of input frequency halfwaves. 4,713,744, 12-15-87, Cl. 363-160.000.
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Bandera, Gianluigi, 4,713,933, Cl. 60-39.500.
Castelli, Pierluigi; and Caramaschi, Vittorio, 4,652,211, Cl. 416-140.000.
Garavaglia, Attilio; Sironi, Enrico; and Gonzato, Rinaldo, 4,659,286, Cl. 416-170.00R.
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Costruzioni Italiane Serrature Affini C.I.S.A. S.p.A.: *See—*
Errani, Deo, 4,683,740, Cl. 70-419.000.
Cosulich, Joseph J.: *See—*
Dvirka, Miro; Psihos, George J.; and Cosulich, Joseph J., 4,681,045, Cl. 110-345.000.
Cosworth Engineering Limited: *See—*
Duckworth, David K.; and Morley, Frederick W., 4,674,463, Cl. 123-570.000.
Cosworth Research and Development Limited: *See—*
Campbell, John, 4,693,292, Cl. 164-34.000.
Cot, Louis: *See—*
Schapira, Joseph; Ken, Victor; Hoessler, Christian; Cot, Louis; Durand, Jean-Henri; and Pelletier, Patrice, 4,668,307, Cl. 148-6.15Z.
Cote, Bernard. Combined roller and blade skate. 4,699,390, 10-13-87, Cl. 280-11.230.
Cote, Bruce R.: *See—*
Getson, Edward F., Jr.; Bradley, John W.; and Cote, Bruce R., 4,663,733, Cl. 364-900.000.
Cote, Laurence G., to Litton Systems Inc. System for reducing the sensitivity of a ring laser gyro to changes in a magnetic field. 4,698,823, 10-6-87, Cl. 372-99.000.
Cote, Paul T., to General Electric Company. Three (3)-way lamp having a tungsten halogen inner envelope. 4,654,560, 3-31-87, Cl. 315-49.000.
Cote, Richard J.; Thomson, Timothy M.; Houghton, Alan N.; Oettgen, Herbert F.; Old, Lloyd J.; and Cardo, Carlos C., to Sloan-Kettering Institute for Cancer Research. Human monoclonal antibodies to cell surface antigens. 4,695,538, 9-22-87, Cl. 435-7.000.
Cote, Richard J.: *See—*
Houghton, Alan N.; Brooks, Hannah; Cote, Richard J.; Oettgen, Herbert F.; and Old, Lloyd J., 4,693,966, Cl. 435-7.000.
Cote, Roger J.; and Cote, Ronald P. Automatic clay target feeder attachment for trap shooting machines. 4,706,641, 11-17-87, Cl. 124-8.000.
Cote, Ronald P.: *See—*
Cote, Roger J.; and Cote, Ronald P., 4,706,641, Cl. 124-8.000.
Cote, William F., to Eaton Corporation. Method for controlling AMT system including gear neutral sensor signal fault detection and tolerance. 4,702,127, 10-27-87, Cl. 74-866.000.
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Chao, Paul, 4,694,218, Cl. 313-478.000.
Cotey, John. Portable dispenser for rolled paper products. 4,690,345, 9-1-87, Cl. 242-55.530.
Cotey, John. Filling valve for use in filling balloons. 4,701,148, 10-20-87, Cl. 446-224.000.
Cothery, Jeffrey R., to Reid Manufacturing Co., Inc. Tool for removing windshield sealant. 4,694,576, 9-22-87, Cl. 30-280.000.
Cothran, Liggett A.; Morgan, Edward L.; Stevens, Robert E.; Holden, Homer N.; and Ensley, R. Neal, to Dayco Products, Inc. Blow molded tubing with special holes and method of making same. 4,655,986, 4-7-87, Cl. 264-508.000.
Cothren, Robert M., Jr.: *See—*
Willett, Robert L.; Cothren, Robert M., Jr.; Kittrell, Carter; and Feld, Michael S., 4,669,467, Cl. 128-303.100.
Cotic, Dennis J.: *See—*
Pajerski, Michael J.; Gray, Steven J.; Flakas, Gerald K.; and Cotic, Dennis J., 4,697,661, Cl. 180-6.500.
Cotie, Gary R.; Culp, Charles H.; Dargis, Daniel J.; Mendala, John M.; and Spielman, Stephen C., to Honeywell, Inc. Addressing system for simultaneously polling plural remote stations. 4,667,193, 5-19-87, Cl. 340-825.080.
Cotignoli, Giuseppe, to Marelli Autronica S.p.A. Electronic ignition system with static distribution for a carburettor engine. 4,660,534, 4-28-87, Cl. 123-643.000.
Cotillier, Jim. Fish locator probe. 4,649,744, 3-17-87, Cl. 73-170.00A.
Cotreau, Gerald M., to Harris Corporation. Front end stage of an operational amplifier. 4,636,743, 1-13-87, Cl. 330-295.000.
Cotrel, Claude; Guyon, Claude; Roussel, Gerard; and Taurand, Gerard, to Rhone-Poulenc Sante. N-(1,8-naphthyridin-2-yl) amides and their pharmaceutical use. 4,642,308, 2-10-87, Cl. 514-253.000.
Cotrel, Claude: *See—*
Barriere, Jean-Claude; Cotrel, Claude; and Paris, Jean-Marc, 4,668,669, Cl. 514-183.000.
Barriere, Jean-Claude; Corbet, Jean-Pierre; Cotrel, Claude; Farge, Daniel; and Paris, Jean-Marc, 4,686,309, Cl. 564-355.000.
Cotrel, Yves P. C. A., to Societe de Fabrication de Materiel Orthopedique Sofamor. Device for supporting the rachis. 4,641,636, 2-10-87, Cl. 128-69.000.
Cotriss, E. James: *See—*
Herlein, Richard F.; Davis, Jeffrey A.; and Cotriss, E. James, 4,675,562, Cl. 307-602.000.
Cotroneo, George V.: *See—*
Ali, Mohammad A.; Cotroneo, George V.; Rodrigue, Peter R.; and Smith, Robert T., 4,674,279, Cl. 60-398.000.
Cotta, Gilbert A., to Senco Products, Inc. Pneumatic mallet. 4,646,852, 3-3-87, Cl. 173-128.000.
Cottage Industries (Equestrian) Limited: *See—*
Bird, Elizabeth A., 4,709,539, Cl. 54-23.000.

Cottenceau, Remi; and Fischer, Francois, to H. Stoll GmbH & Co. Device for selecting yarns for a knitting machine. 4,645,248, 2-24-87, Cl. 289-2.000.

Cottenceau, Remi; Fischer, Francois; and Arieh, Simon, to Mayer & Cie. GmbH & Co.; and Sipra Patententwicklungs - und Beteiligungsgesellschaft mbH. Method of and apparatus for joining a selected yarn to a yarn being knitted. 4,691,535, 9-8-87, Cl. 66-144.000.

Cottenceau, Remi: *See—*
- Asper, Jean-Jacques; and Cottenceau, Remi, 4,710,984, Cl. 2-412.000.

Cotter, Byron R.; Lin, Henry C.; and Pawlak, Joseph A., to Occidental Chemical Corporation. 4,4-dihalohexahydrophthalic anhydrides and 4-fluorotetrahydrophthalic anhydride, and process for their preparation. 4,709,056, 11-24-87, Cl. 549-246.000.

Cotter, Byron R.: *See—*
- Tang, David Y.; Cotter, Byron R., and Goetz, Fredrick J., 4,704,483, Cl. 568-937.000.

Cotter, David, to British Telecommunications plc. Mode locked laser light sources. 4,665,524, 5-12-87, Cl. 372-18.000.

Cotter, David H.; Teerman, Richard F.; and Timmer, Robert C., to General Motors Corporation. Two-stage, hydraulic-assisted fuel injection nozzle. 4,684,067, 8-4-87, Cl. 239-533.300.

Cotter, Donald P., to Alumax, Inc. Standing seam structure covering system. 4,706,434, 11-17-87, Cl. 52-520.000.

Cotter, Richard; Johnson, Robert C., Rowe, W. Bruce; and Young, Susan K., to Baxter Travenol Laboratories, Inc. Method for directed visceral metabolism of medium chain triglycerides. 4,678,807, 7-7-87, Cl. 514-552.000.

Cotter, Richard: *See—*
- Blackburn, George L.; Babayan, Vigen K.; Bistrian, Bruce; Moldawer, Lyle L.; and Cotter, Richard, 4,703,062, Cl. 514-552.000.
- Ward, Michael V.; and Cotter, Richard, 4,678,808, Cl. 514-560.000.

Cotter, Robert J.: *See—*
- Gardner, Hugh C.; Michno, Michael J., Jr.; Brode, George L.; and Cotter, Robert J., 4,661,559, Cl. 525-65.000.
- Kawakami, James H.; Harris, James E.; Maresca, Louis M.; Robeson, Lloyd M.; and Cotter, Robert J., 4,705,822, Cl. 524-425.000.

Cotter, Theodore P.: *See—*
- Robinson, C. Paul; Jensen, Reed J.; Cotter, Theodore P.; Greiner, Norman R.; and Boyer, Keith, 4,661,221, Cl. 204-157.220.

Cotter, Walter C.: *See—*
- Nastari, John J.; and Cotter, Walter C., 4,643,178, Cl. 128-92.0YD.

Cotteret, Jean: *See—*
- Grollier, Jean F.; Cotteret, Jean; and Rosenbaum, Georges, 4,668,237, Cl. 8-424.000.
- Grollier, Jean F.; and Cotteret, Jean, 4,668,505, Cl. 424-47.000.
- Grollier, Jean-Francois; Cotteret, Jean; and Rosenbaum, Georges, 4,668,236, Cl. 8-405.000.
- Grollier, Jean-Francois; Cotteret, Jean; Junino, Alex; and Genet, Alain, 4,690,685, Cl. 8-405.000.
- Junino, Alex; Lang, Gerard; Andrean, Herve; and Cotteret, Jean, 4,692,166, Cl. 8-410.000.
- Monnais, Christian; and Cotteret, Jean, 4,637,821, Cl. 8-415.000.

Cotterill, Michael J. Keyboard support. 4,691,888, 9-8-87, Cl. 248-284.000.

Cottingham, Richard L., to Timber Textures (UK) Limited. Method of artificially ageing wood. 4,701,355, 10-20-87, Cl. 427-317.000.

Cottis, Steve G., to Dart Industries Inc. Production of thermally stabilized aromatic polyesters. 4,639,504, 1-27-87, Cl. 528-176.000.

Cottle, Charles A.: *See—*
- Brennan, William J., Jr.; and Cottle, Charles A., 4,674,113, Cl. 379-107.000.

Cottman, Kirkwood S.: *See—*
- Colvin, Howard A.; Cottman, Kirkwood S.; and Parker, Dane K., 4,714,772, Cl. 558-240.000.

Cotton, Alfred B., to United Kingdom of Great Britain and Northern Ireland, The Secretary of State for Defence in Her Britannic Majesty's Government of the. Magnetic assemblies for minesweeping or ship degaussing. 4,676,168, 6-30-87, Cl. 102-402.000.

Cotton, Curran D.; Ellingson, David I.; Erickson, Donald E.; Noe, William J.; and Wilson, James D., to Maytag Company, The. Control for coin actuated appliances. 4,663,538, 5-5-87, Cl. 307-38.000.

Cotton, Dale L.; and Nachman, Frank J., to General Motors Corporation. Method of manufacturing a polyphenylene sulfide potted pole and coil assembly. 4,714,576, 12-22-87, Cl. 264-46.500.

Cotton, John M.: *See—*
- Van Simaeys, Francoise C. G.; Leurs, Anna M. C.; Upp, Daniel C.; Lawrence, Alan J.; and Cotton, John M., 4,641,301, Cl. 370-58.000.

Cotton, Leonard; Nay, Barry; and Wilcox, Michael J. Process for production of a syngas conversion catalyst. 4,683,219, 7-28-87, Cl. 502-304.000.

Cotton, Robert V.; and Klodnicki, Edward J., to Teleconference Systems, Inc. High resolution graphics system for video/teleconferencing systems. 4,688,108, 8-18-87, Cl. 358-257.000.

Cotton, Sydney: *See—*
- Davies, Ian; Cotton, Sydney; and Howard, Anthony M., 4,698,901, Cl. 437-209.000.

Cottrell, F. Richard: *See—*
- Bullitt, Julian G.; and Cottrell, F. Richard, 4,654,293, Cl. 430-221.000.

Cottrell, Henry L.; and Venturi, William L., to Cottrell, Henry Lloyd. Conduit couplings. 4,691,945, 9-8-87, Cl. 285-419.000.

Cottrell, Henry Lloyd: *See—*
- Cottrell, Henry L.; and Venturi, William L., 4,691,945, Cl. 285-419.000.

Cottrell, Peter E.; Craig, William J.; and Troutman, Ronald R., to International Business Machines Corporation. Charge pumping structure for a substrate bias generator. 4,670,669, 6-2-87, Cl. 307-297.000.

Cottrell, Peter E.; Gersbach, John E.; and Pricer, Wilbur D., to International Business Machines Corporation. Differential circuit having a high voltage switch. 4,675,559, 6-23-87, Cl. 307-530.000.

Cottrell, Roger L.; and Murphy, Alan S., to International Business Machines Corporation. Image transformations on an interactive raster scan or matrix display. 4,688,181, 8-18-87, Cl. 364-521.000.

Cottrell, Walker C., Jr. Test system for walk-through metal detector. 4,672,837, 6-16-87, Cl. 73-1.00R.

Cotzas, George M.; VanDusen, Morris V.; and VanSchaick, Thomas E., to General Electric Company. Liquid cooled static excitation system for a dynamoelectric machine. 4,682,068, 7-21-87, Cl. 310-198.000.

Couarc'h, Michel F. E.; Bessouat, Roger; Lafaye, Marc R. R.; and Bernet, Robert R. E., to Manutair Moller; and Stein Industrie. Device for reinjecting flown-off particles into a solid fuel boiler. 4,648,329, 3-10-87, Cl. 110-245.000.

Couch, Harold T.: *See—*
- Kesten, Arthur S.; Haught, Alan F.; and Couch, Harold T., 4,712,610, Cl. 165-104.120.

Couch, Wilfred R., to International Business Machines Corporation. Automatic self service machine system and method. 4,650,977, 3-17-87, Cl. 235-379.000.

Couderc, Jean-Pierre L.: *See—*
- de Fleurieu, Bertrand M. C.; Couderc, Jean-Pierre L.; and Lonnoy, Jacques J., 4,659,219, Cl. 356-152.000.

Couderc, Pierre; and Corbel, Henri, to Elf Isolation. Cladding element for outer facades, and application thereof. 4,686,803, 8-18-87, Cl. 52-97.000.

Coudron, Celestine A. Children's sleeping bag. 4,674,130, 6-23-87, Cl. 2-69.500.

Couffin, Frederic; and Magnier, Claude, to Rhone-Poulenc Chimie de Base. Anhydrous sodium tripolyphosphate. 4,671,948, 6-9-87, Cl. 423-315.000.

Couffin, Frederic: *See—*
- Bourgeois, Jean-Paul; Couffin, Frederic; and Magnier, Claude, 4,671,947, Cl. 423-308.000.
- Bourgeois, Jean-Paul; Couffin, Frederic; and Magnier, Claude, 4,671,949, Cl. 423-315.000.

Coughlin, Lawrence P.: *See—*
- Charuest, George M.; and Coughlin, Lawrence P., 4,635,623, Cl. 128-80.00C.

Coughlin, Peter K., to Union Carbide Corporation. Catalyst and process for converting synthesis gas to liquid motor fuels. 4,663,355, 5-5-87, Cl. 518-713.000.

Coughlin, Peter K.: *See—*
- Pellet, Regis J.; Coughlin, Peter K.; Staniulis, Mark T.; Long, Gary N.; and Rabo, Jule A., 4,666,875, Cl. 502-65.000.
- Rabo, Jule A.; and Coughlin, Peter K., 4,652,538, Cl. 502-66.000.

Coughlin, Thomas M.; Habbal, Fawwaz; and Lee, Jane H., to Polaroid Corporation. Magnetic head assembly with angled slots. 4,700,248, 10-13-87, Cl. 360-103.000.

Couillard, Francois, to Groupe Industriel de Realisation et d'Application Gira S.A. Constant flow rate liquid pumping system. 4,643,651, 2-17-87, Cl. 417-265.000.

Coulam, Carolyn B.: *See—*
- Gleich, Gerald J.; Wasmoen, Terri L.; Coulam, Carolyn B.; and Coulam, Carolyn B., 4,710,475, Cl. 436-86.000.
- Gleich, Gerald J.; Wasmoen, Terri L.; Coulam, Carolyn B.; and Coulam, Carolyn B., 4,710,475, Cl. 436-86.000.

Coulborn, John W.: *See—*
- Balbi, Philip A.; and Coulborn, John W., 4,646,653, Cl. 105-406.100.

Coulombe, Charles: *See—*
- Jobin, Luc; and Coulombe, Charles, 4,642,936, Cl. 43-122.000.

Coulombe, David J., to Reliance Comm/Tec Corporation. Method and apparatus for handling and storing cabled spliced ends of fiber optics. 4,702,551, 10-27-87, Cl. 350-96.200.

Coulon, Andre; Loier, Chantal; and Badeau, Jean-Pierre, to Alsthom-Atlantique. Steel for manufacturing large forged parts. 4,689,095, 8-25-87, Cl. 148-325.000.

Coulon, Jean-Claude: *See—*
- Poncelet, Denis; Coulon, Jean-Claude; Chaumette, Jacques; and Letourneur, Pierre, 4,634,231, Cl. 350-311.000.

Coulon, Philippe A.: *See—*
- Duteurtre, Bruno H. J.; Coulon, Philippe A.; and Goutard, Rene M., 4,655,265, Cl. 141-9.000.

Coulson, Paul: *See—*
- Pfaff, Paul H.; Spagna, Richard N.; Clucas, Robert A.; Coulson, Paul; and Eskandry, Ezra D., 4,679,035, Cl. 340-572.000.

Coulston, Frederick, and Korte, Friedrich W. A. G. K., to Angus Chemical Company. Insect repellent. 4,663,346, 5-5-87, Cl. 514-456.000.

Coulter Corporation: *See—*
- Auer, Robert E., 4,691,829, Cl. 209-3.100.
- Kortright, Kenneth H.; and Hofheinz, David E., 4,708,930, Cl. 435-7.000.

Coulter, Douglas, to United States Design Corporation. Method and apparatus for storing data on magnetic or optical media. 4,635,141, 1-6-87, Cl. 360-44.000.

Coulter Electronics, Inc.: *See—*
- Cabrera, Pedro P.; and Talbot, Glenn D., 4,653,719, Cl. 251-7.000.
- Cabrera, Pedro P.; Berra, Humberto A.; and Doty, Edward N., 4,702,889, Cl. 422-103.000.

Carver, Franklin J.; and Gerula, Theodore J., 4,704,364, Cl. 436-10.000.

Graham, Marshall D.; and Graham, William G., 4,664,796, Cl 210-222.000.

Graham, Marshall D., 4,666,595, Cl. 210-222.000.

Hill, Robert C. B., 4,645,079, Cl. 206-563.000.

Mitchell, Gary A.; Jaffe, Gerald E.; and Solorzano, Marilyn M., 4,694,070, Cl. 530-329.000.

Coulter Electronics of New England, Inc.: *See—*

Bott, Steven E., 4,676,641, Cl. 356-336.000.

Coulter Systems Corporation: *See—*

Alston, Julia M., 4,664,499, Cl. 355-4.000.

Coulter, Thomas R.; Isaacson, Philip O.; and Thiede, Edwin C., to Honeywell Inc. High resolution noncoherent radar imager. 4,707,697, 11-17-87, Cl. 342-25.000.

Coulthard, Walter: *See—*

Bayes, Michael G.; and Coulthard, Walter, 4,654,954, Cl 29-568.000.

Coulthart, Kenneth B.; Fairfield, Robert C.; and Mortenson, Robert L., to AT&T Bell Laboratories. Random number generator. 4,641,102, 2-3-87, Cl. 328-62.000.

Coultish, John R.: *See—*

Ridgway, Charles I.; and Coultish, John R., 4,658,624, Cl. 72-316.000.

Council, Buford W., Jr., to Bausch & Lomb Incorporated. Toric lenses, method and apparatus for making same. 4,680,998, 7-21-87, Cl. 82-1.00C.

Council for Mineral Technology: *See—*

Barcza, Nicholas A.; and Schoukens, Albert F. S., 4,699,653, Cl. 75-10.190.

Council, Malcolm N., and Baker, Walter, to Otis Engineering Corporation. Apparatus and methods for cleaning a well. 4,705,107, 11-10-87, Cl. 166-170.000.

Councilman, Richard R., to Brunswick Corporation. Dual anti-reverse and self-centering mechanism for spinning reels. 4,650,134, 3-17-87, Cl. 242-84.20G.

Counselman, Charles C., III; and Steinbrecher, Donald H., to Western Geophysical Co. Circularly polarized antenna for satellite positioning systems. 4,647,942, 3-3-87, Cl. 343-797.000.

Counselman, Charles C., III, to Aero Service Div, Western Geophysical. Method and system for determining position using signals from satellites. 4,667,203, 5-19-87, Cl. 342-357.000.

Counter, Louis F.; Callies, Fritz A.; and Lee, Phillip L., to Rexnord Inc. Linear articulated pusher. 4,643,291, 2-17-87, Cl. 198-356.000.

Counter, Louis F.; Born, Richard C.; Walters, LeRoy M.; Ziese, Lowell B.; and Searing, Lawrence G., to Rexnord Inc. Apparatus for detecting cracks in a flexible coupling. 4,714,917, 12-22-87, Cl. 340-679.000.

Counter, Louis F.: *See—*

Wobick, Robert F.; Anderson, William B.; Counter, Louis F., and Dindinger, Phil M., 4,688,669, Cl. 198-712.000.

Counterpoint Computers: *See—*

Kiremidjian, Frederick B., and Buchanan, Jefferson C., 4,704,697, Cl. 364-518.000.

Country Home Products, Inc.: *See—*

Raymond, Richard O., 4,703,613, Cl. 56-12.700.

Country Iron Foundry, The: *See—*

Stoughton, Donald B., 4,688,548, Cl. 126-298.000.

Counts, Lewis W.; and Close, JoAnn P., to Analog Devices, Incorporated. Very low input current JFET amplifier. 4,639,683, 1-27-87, Cl. 330-253.000.

County Wood Products Ltd.: *See—*

Butler, Robert A., 4,645,536, Cl. 106-15.050.

Couper, John: *See—*

Reis, Mario J. J. M. P. D.; and Couper, John, 4,673,100, Cl. 220-324.000.

Coupland, Duncan R.; and Pearson, Derek P. A., to Johnson Matthey Public Limited Company. Cast component of nickel alloys containing large amounts of chromium. 4,662,920, 5-5-87, Cl. 65-15.000.

Couprie, Francois, to Gaz de France. Device for evacuating into the ambient air combustion products from a condensation boiler. 4,640,232, 2-3-87, Cl. 122-7.00R.

Couprie, Francois, to Service National: Gaz de France. Reduced wreath condensation boiler. 4,651,680, 3-24-87, Cl. 122-20.00B.

Couprie, Francois. Device for evacuating into the ambient air combustion products from a condensation boiler. 4,712,515, 12-15-87, Cl. 122-7.00R.

Cour, Jean-Michel; and Gibergues, Oliver, to Gixi Ingenierie Informatique S.A. System for setting up data transmission circuits between a plurality of stations. 4,670,873, 6-2-87, Cl. 370-86.000.

Courbat, Pierre; Weith, Andre; and Albert, Alban, to Zyma SA. Use of O-substituted derivatives of (+)-cyanidan-3-ol as compounds having immunomodulating properties. 4,634,718, 1-6-87, Cl. 514-460.000.

Courbat, Pierre: *See—*

Ballenegger, Marc E.; Rimbault, Christian G.; Albert, Alban I.; Weith, Andre J.; Courbat, Pierre; Tyson, Robert G.; Palmer, Derek R.; and Thompson, David G., 4,644,011, Cl. 514-456.000.

Courchesne, Germain. Air-to-air heat exchanger. 4,653,575, 3-31-87, Cl. 165-54.000.

Courcoux, Alain; and Merlin, Jacques, to Framatome & Cie. Process and apparatus for testing a pilot-operated safety valve. 4,646,556, 3-3-87, Cl. 73-4.00R.

Courjaret, Francois; Del Fabbro, Gilbert; Devic, Jean-Noel; Divoux, Michel; Forella, Guy; Hamant, Jean-Pierre; Tubiana, Dominique; and Pavie, Claude, to Compagnie Generale d'Automatisme CGA-HBS. Separator for heterogenous flat objects. 4,701,094, 10-20-87, Cl. 414-330.000.

Cournoyer, Bernard T.: *See—*

Hedstrom, Norman A.; and Cournoyer, Bernard T., 4,662,776, Cl. 403-387.000.

Coursant, Roger H., to U.S. Philips Corporation. Device for the examination of objects by ultrasonic echography with angular focusing. 4,677,981, 7-7-87, Cl. 128-660.000.

Courson, Barbara A. Cosmetologist's protective device. 4,669,132, 6-2-87, Cl. 4-523.000.

Court, Pierre: *See—*

Fresard, Marcel; Plomb, Francis; and Court, Pierre, 4,649,608, Cl. 29-26.00A.

Courtaulds Clothing Limited: *See—*

Flavell, John; Nash, Michael A.; and Tubb, Anthony B., 4,708,334, Cl. 271-182.000.

Courtaulds PLC: *See—*

Blackie, Merrick S., and Poynton, David J., 4,647,505, Cl. 428-396.000.

Chambers, Pauline B.; Bedder, Stephen W.; and Akers, Paul J., 4,680,335, Cl. 524-501.000.

Urben, Peter G., 4,711,967, Cl. 558-243.000.

Wilson, David, 4,658,604, Cl. 66-192.000.

Courteheuse, Gerard: *See—*

Bischoff, Didier; Courteheuse, Gerard; and Renard, Pierre, 4,639,354, Cl. 422-140.000.

Courter, Jeanne L.: *See—*

Wang, David W.; Courter, Jeanne L., and Kohli, Dalip K., 4,636,535, Cl. 523-204.000.

Courtesy Mold & Tool Corporation: *See—*

Kreiseder, Walter J., 4,696,410, Cl. 220-267.000.

Kreiseder, Walter J., 4,706,835, Cl. 220-258.000.

Kreiseder, Walter J., 4,709,830, Cl. 220-258.000.

Courtien, John F.: *See—*

Torre, Frank M.; and Courtien, John F., 4,644,560, Cl. 375-1.000.

Courtney, Albert L. Fastener hook. 4,654,936, 4-7-87, Cl. 24-230.50W.

Courtney, Jack W.: *See—*

Chickanosky, John J.; Courtney, Jack W.; and Murphy, Robert H., 4,681,221, Cl. 206-328.000.

Courtney, Mark G.: *See—*

Arnold, Allen J.; Courtney, Mark G.; Kirby, Diane N.; Mis, Katherine H.; and Sutton, Kerry L., 4,715,430, Cl. 165-80.300.

Courtney, William L. Scuba gear with combined flotation and transport device. 4,645,465, 2-24-87, Cl. 441-40.000.

Courtney, William L. Combined life vest device and buoyancy compensator. 4,681,552, 7-21-87, Cl. 441-92.000.

Courtois, Jean-Claude, to Labavia S.G.E. Armature rotors for electromagnetic brakes. 4,712,656, 12-15-87, Cl. 188-218.0XL.

Courtois, Peter D.; and Truitt, Robert E., to Dayton Superior Corporation. Apparatus for lifting concrete panels. 4,700,979, 10-20-87, Cl. 294-89.000.

Courtois, Yves: *See—*

Guedon born Saglier, Isabelle; Barritault, Denis; Courtois, Yves; Arruti, Cristina; and Prunieras, Michel, 4,670,257, Cl. 424-95.000.

Courtwright, Joel G.: *See—*

Henson, Edwin R.; and Courtwright, Joel G., 4,663,121, Cl. 422-12.000.

Courty, Albert: *See—*

Eumurian, Gregoire; and Courty, Albert, 4,691,386, Cl. 455-607.000.

Courty, Philippe; Durand, Daniel; Sugier, Andre; and Freund, Edouard, to Institut Francais du Petrole. Process for manufacturing a mixture of methanol and higher alcohols from synthesis gas. 4,659,742, 4-21-87, Cl. 518-713.000.

Courty, Philippe; Durand, Daniel; Forestiere, Alain; and Grandvallet, Pierre, to Institut Francais du Petrole. Process of use of a catalyst for synthesizing saturated primary aliphatic alcohols. 4,675,343, 6-23-87, Cl. 518-713.000.

Courville, George V.: *See—*

Bonis, Laszlo J.; Courville, George V.; and Opland, Samuel, 4,649,007, Cl. 264-148.000.

Courvoisier, Guy; and Arieh, Simon, to Lange International S.A. Rear-access ski boot. 4,660,303, 4-28-87, Cl. 36-119.000.

Courvoisier, Guy; and Arieh, Simon, to Lange International S.A. Electrical heating element intended to be incorporated in an inner lining of an item of clothing or accessory intended to be placed against a part of the human body. 4,665,308, 5-12-87, Cl. 219-548.000.

Courvoisier, Guy: *See—*

Arieh, Simon; and Courvoisier, Guy, 4,660,302, Cl. 36-117.000.

Arieh, Simon; and Courvoisier, Guy, 4,677,771, Cl. 36-120.000.

Coury, Arthur J.: *See—*

Jevne, Allan H.; Cahalan, Patrick T.; and Coury, Arthur J., 4,650,614, Cl. 260-513.00N.

Cousens, Donald E.: *See—*

Kurtz, John A.; Cousens, Donald E.; and Dufour, Mark D., 4,685,631, Cl. 242-47.000.

Cousin, Daniel; Garnier, Jean-Francois; and Georges, Jean-Pierre, to Jeumont-Schneider Corporation. Rapid message transmission system between computers and method. 4,692,862, 9-8-87, Cl. 364-200.000.

Cousin Freres: *See—*

Cousin, Jean-Claude; and Robin, Jacques A., 4,707,977, Cl. 57-297.000.

Cousin, Jean-Claude; and Robin, Jacques A. Racket frame. 4,643,857, 2-17-87, Cl. 264-46.600.

Cousin, Jean-Claude; and Robin, Jacques A., to Cousin Freres. Composite cord manufacturing method. 4,707,977, 11-24-87, Cl. 57-297.000.

Cousin, Philippe, to Proneq Industries Inc. Molding machine with vibration system. 4,652,228, 3-24-87, Cl. 425-432.000.

Cousin, Stephane; and Boumendil, Jean-Paul, to Isover Saint-Gobain. Insulating and impervious roofing panels and a process and apparatus for their manufacture. 4,695,338, 9-22-87, Cl. 156-71.000.

Cousin, Stephane; and Boumendil, Jean-Paul, to Isover Saint-Gobain. Insulating and impervious roofing panels. 4,696,847, 9-29-87, Cl. 428-76.000.

Cousins, David: *See—*

Foss, Leonard; Cousins, David; and Li, Edward, 4,658,786, Cl. 123-414.000.

Li, Edward; Foss, Leonard; and Cousins, David, 4,711,227, Cl. 123-643.000.

Cousins, Ivan J.: *See—*

Morland, Mark R.; Cole, Paul A.; Cousins, Ivan J.; and Zandonatti, Raymond A., 4,708,661, Cl. 439-77.000.

Coussau, Jean, to Framatome & Cie. Method for eliminating leakage spaces between the partitions surrounding the core of a pressurized water nuclear reactor. 4,650,638, 3-17-87, Cl. 376-260.000.

Coussau, Jean, to Framatome & Cie. Method and apparatus for eliminating leakage spaces between the partitions surrounding the core of a pressurized water nuclear reactor. 4,650,639, 3-17-87, Cl. 376-260.000.

Coussau, Jean: *See—*

Crespin, Gerard; and Coussau, Jean, 4,681,495, Cl. 411-298.000.

Cousse, Henri; Delhon, Andre ; Rieu, Jean-Pierre; and Patoiseau, Jean-Francois, to P. F. Medicament. Halo-biphenyl tertiary alcohols useful in therapy in the treatment of atherosclerosis. 4,714,789, 12-22-87, Cl. 568-807.000.

Cousse, Henri: *See—*

Pitet, Guy; Cousse, Henri; and Mouzin, Gilbert, 4,677,105, Cl. 514-242.000.

Coustenoble, Jean-Pierre: *See—*

Gilles, Ascher; Coustenoble, Jean-Pierre; and Fournial, Jean-Francois, 4,635,646, Cl. 128-696.000.

Cousty, Jean Pierre, to Technip Geoproduction. Raising method and device, in particular for an oil exploiting platform. 4,678,372, 7-7-87, Cl. 405-196.000.

Coutant, Alan R., to Caterpillar Inc. Fluid pressure control system having a timed pressure cutback device. 4,676,348, 6-30-87, Cl. 192-3.570.

Coutant, Alan R., to Caterpillar Inc. Fluid pressure control system having a pressure cutback device. 4,676,349, 6-30-87, Cl. 192-3.570.

Coutant, Patrick: *See—*

Leorat, Francois; Coutant, Patrick; and Aubert, Paul, 4,664,137, Cl. 137-118.000.

Leorat, Francois; Coutant, Patrick; and Aubert, Paul, 4,679,988, Cl. 417-218.000.

Leorat, Francois; Coutant, Patrick; and Aubert, Paul, 4,691,597, Cl. 74-869.000.

Coutarel, Alain, to Coflexijs. Apparatus to maneuver cables or conduits passing over a direction changer. 4,714,380, 12-22-87, Cl. 405-168.000.

Coutelle, Charles: *See—*

Hunger, Hans-Dieter; and Coutelle, Charles, 4,716,103, Cl. 435-5.000.

Coutier, Charles, to Etablissements Charles Coutier. Device for preventing access to ladders. 4,664,225, 5-12-87, Cl. 182-77.000.

Coutin, Pierre F., to R. Alkan & Cie. Device for retaining and releasing a wire for arming bomb fuses. 4,706,541, 11-17-87, Cl. 89-1.550.

Coutin, Pierre F.: *See—*

Duclos, Didier A.; and Coutin, Pierre F., 4,682,529, Cl. 89-1.510

Couture, Gerard. Overload clutch with automatic reset. 4,641,735, 2-10-87, Cl. 192-56.00L.

Couture Marketing Limited: *See—*

Croxall, John, 4,635,551, Cl. 101-470.000.

Couture, Michael V., to Combustion Engineering, Inc. Nuclear fuel rod transfer canister having corrugated funnel. 4,649,017, 3-10-87, Cl. 376-272.000.

Couture, Michael V.; and Keklak, Ronald, to Combustion Engineering, Inc. Grid structure for fuel rod consolidation canister. 4,659,535, 4-21-87, Cl. 376-261.000.

Couture, Michael V.: *See—*

Keklak, Ronald; Couture, Michael V.; Whitehouse, John C.; and Payne, Marshall W., 4,680,571, Cl. 340-52.00R.

Keklak, Ronald; Couture, Michael V.; and Whitehouse, John C., 4,713,885, Cl. 30-162.000.

Couture, Richard P. Hand held and hand operated tool for controllably punching a small air intake hole in a burned out removed fluorescent lighting tube. 4,656,741, 4-14-87, Cl. 30-363.000.

Coutures, Jean L.: *See—*

Chautemps, Jacques; and Coutures, Jean L., 4,652,731, Cl. 235-462.000.

Coutures, Jean Louis: *See—*

Berger, Jean Luc; and Coutures, Jean Louis, 4,669,055, Cl. 364-829.000.

Couty, Rene W.: *See—*

Dahan, Noel; Guilhaumou, Nicole; and Couty, Rene W., 4,707,086, Cl. 350-536.000.

Couvez, Marc, to Societe Anonyme D.B.A. Pad spring for a disc brake with a sliding caliper, and disc brake equipped with such a spring. 4,690,254, 9-1-87, Cl. 188-73.360.

Couwenberg, Franciscus A. C. M.; Groenenberg, Cornelis J.; and Wetjens, Antonius C. S., to Oce-Nederland B.V. Positioning device for sheet on exposure platen of a copying machine. 4,716,440, 12-29-87, Cl. 355-14.0SH.

Cova, Michel, to Constructions Metalliques et Carrosseries Caire Claude. Portable and modular dance floor. 4,635,425, 1-13-87, Cl. 52-480.000.

Covalent Technology Corporation: *See—*

Wood, David E., 4,716,123, Cl. 436-533.000.

Covarrubias, David S.; Yassan, Reza M.; Covarrubias, Maria S.; and Revuelta, Arturo, to Covarrubias, David S.; Yassan, Reza M.; Covarrubias, Maria S.; Revuelta, Arturo; and Revuelta, Jose. Chuck and top jaw assemblies. 4,706,973, 11-17-87, Cl. 279-1.0SJ.

Covarrubias, Jesus T.: *See—*

Weber, John B.; and Covarrubias, Jesus T., 4,668,517, Cl. 424-469.000.

Covarrubias, Maria S.: *See—*

Covarrubias, David S.; Yassan, Reza M.; Covarrubias, Maria S. and Revuelta, Arturo, 4,706,973, Cl. 279-1.0SJ.

Covell, Walter R. Rudder for electric trolling motor. 4,634,388, 1-6-87, Cl. 440-6.000.

Covenant Manufacturing Co.: *See—*

Kauffman, James C.; and Thompson, Glenn F., 4,635,699, Cl. 160-211.000.

Cover, Craig H. Multilayered insulation batt for building structures. 4,700,521, 10-20-87, Cl. 52-404.000.

Cover, Kenneth R.: *See—*

Packard, Richard F.; and Cover, Kenneth R., 4,680,790, Cl. 379-432.000.

Covert, Charles H.; Gifford, William E.; Kemler, Craig G.; and Paddock, Gordon R., to General Motors Corporation. Fuel vapor storage canister. 4,714,485, 12-22-87, Cl. 55-189.000.

Covey, Douglas F.; Levine, Jeffrey A.; and Ferrendelli, James A., to Washington University. Anticonvulsant γ-thiobutyrolactone derivatives. 4,707,491, 11-17-87, Cl. 514-445.000.

Covey, James H., to Boeing Company, The. Dielectric isolation of metallic conduits. 4,654,747, 3-31-87, Cl. 361-215.000.

Coville, William E.; Grossman, Hyman; and Sokol, Michael, to Bio-Data Corporation. Analytical apparatus. 4,695,430, 9-22-87, Cl. 422-65.000.

Covington, Edward J.; Cridland, John E.; and Gorman, John P., to General Electric Company. Bimetal switch for electrode heat cutout within an electrically insulating support. 4,695,768, 9-22-87, Cl. 315-73.000.

Covington, John H., to Vari-Lite, Inc. Regulated power supply apparatus and method using reverse phase angle control. 4,688,161, 8-18-87, Cl. 363-37.000.

Covington, Johnny B.: *See—*

Shu, Jing S.; Covington, Johnny B.; Lee, Wei; Venable, Larry G.; and Varnell, Gilbert L., 4,657,844, Cl. 430-325.000.

Covington, Roger G.: *See—*

Harris, Clark E.; and Covington, Roger G., 4,654,742, Cl. 360-132.000.

Harris, Clark E.; Covington, Roger G.; and Foeller, David E., 4,660,105, Cl. 360-60.000.

Covino, Josephine; and McManis, George E., to United States of America, Navy. Electrochemical synthesis of ternary phosphides. 4,637,864, 1-20-87, Cl. 204-61.000.

Cowan, Carl E.; Lubinsky, Anthony R.; Nylund, Thomas W.; Specht, Malcolm R.; and Spence, John P., to Eastman Kodak Company. Electrophotographic color proofing apparatus and method. 4,708,459, 11-24-87, Cl. 355-4.000.

Cowan, Colin F. N.: *See—*

Adams, Peter F.; and Cowan, Colin F. N., 4,694,451, Cl. 370-32.100.

Cowan, Dwaine O.: *See—*

Potember, Richard S.; Poehler, Theodore O., Jr.; and Cowan, Dwaine O., 4,652,894, Cl. 357-8.000.

Cowan, James H.; and Spector, George. Spring actuated cue stick. 4,634,123, 1-6-87, Cl. 273-69.000.

Cowan, Kent G.: *See—*

Buck, Robert H.; Cowan, Kent G.; Doughty, John P.; and Marshall, Stephen E., 4,688,021, Cl. 340-521.000.

Cowan, W. Maxwell: *See—*

Patrick, James W.; Heinemann, Stephen F.; Boss, Barbara D.; and Cowan, W. Maxwell, 4,652,629, Cl. 530-326.000.

Patrick, James W.; Heinemann, Stephen F.; Boss, Barbara D.; and Cowan, W. Maxwell, 4,707,356, Cl. 424-88.000.

Cowart, Betty J.: *See—*

Kilman, Brenda J.; and Cowart, Betty J., 4,648,416, Cl. 132-88.700

Cowell, Andrew J. J.: *See—*

Kellie, James L. F.; and Cowell, Andrew J. J., 4,708,739, Cl. 75-76.000.

Cowell, Earl V.: *See—*

Rayburn, Albert M.; and Cowell, Earl V., 4,703,969, Cl. 296-3.000

Cowell, Gawin W.: *See—*

Cairns, John F.; and Cowell, Gawin W., 4,713,163, Cl. 204-296.000.

Cowell, Thomas H.: *See—*

Jahr, Ronald S.; and Cowell, Thomas H., 4,707,852, Cl. 379-107.000.

Cowen, David W., to Westinghouse Brake and Signal Company Limited. Power control circuit with digital pulse width control. 4,636,933, 1-13-87, Cl. 363-98.000.

Cowen, David W.: *See—*

Badge, Roger; and Cowen, David W., 4,672,223, Cl. 307-3.000.

Cowen, Judith A., to LRC Electronics, Inc. Coaxial cable tap connector. 4,691,976, 9-8-87, Cl. 439-394.000.

Cowen, Steven J., to United States of America, Navy. Hermetic high pressure fiber optic bulkhead penetrator. 4,682,846, 7-28-87, Cl. 350-96.180.

Cowen, Steven J.: *See—*
McCord, Marion; Arriola, Arturo; and Cowen, Steven J., 4,644,399, Cl. 358-142.000.

Cowett, Philip M., Jr., to Allied Corporation. d.c. to d.c. converter power supply with dual regulated outputs. 4,669,036, 5-26-87, Cl. 363-21.000.

Cowfer, Joseph A.; and Best, James E., to B.F. Goodrich Company, The. Process for finishing vinyl chloride monomer. 4,642,400, 2-10-87, Cl. 570-238.000.

Cowler, David J. W.; and Lewis, Peter R., to Fether, Kenneth B.; Miles, Richard; Rostron, Anthony; and Lewis, Peter R. Bracket and post assembly. 4,711,420, 12-8-87, Cl. 248-243.000.

Cowles, John M.; Goldstein, Henry; Chicoye, Etzer; and Ting, Patrick L., to Miller Brewing Company. Preparation of tetrahydroisohumulones. 4,644,084, 2-17-87, Cl. 568-341.000.

Cowles, Warren H., to Colt Industries Operating Corp. Fuel injection apparatus and system. 4,637,366, 1-20-87, Cl. 123-568.000.

Cowles, Warren H.; and Sowik, Jerry A., to Colt Industries Operating Corp. Fuel pressure regulator. 4,660,597, 4-28-87, Cl. 137-505.420.

Cowley, Edward L. Digital touch operated switch. 4,651,022, 3-17-87, Cl. 307-116.000.

Cowlin, Robert M.; and Cowlin, Simon, to Lockwood Graders (UK) Limited. Method and apparatus for cutting blemishes from elongate articles. 4,655,110, 4-7-87, Cl. 83-27.000.

Cowlin, Simon: *See—*
Cowlin, Robert M.; and Cowlin, Simon, 4,655,110, Cl. 83-27.000.

Cowpertwait, John; and Edwards, Peter J., to Babcock Hydro-Pneumatic Limited. Seals between conveyors and hoppers discharging on to the conveyors. 4,667,810, 5-26-87, Cl. 198-525.000.

Cowtronics, Inc.: *See—*
Leonardo, John, 4,635,587, Cl. 119-1.000.

Cox, Albert R., to Cooper Industries, Inc. Mass terminable flat cable assembly with readily separable ground plane. 4,678,864, 7-7-87, Cl. 174-36.000.

Cox, Allen R.; Lowe, Anthony C.; and Wood, John C., to International Business Machines Corporation. Display cell with self-sealing, collapsing plug. 4,684,219, 8-4-87, Cl. 350-343.000.

Cox, Bernie F., to Mineral Preparation, Inc. Mobile mineral preparation plant. 4,708,789, 11-24-87, Cl. 209-457.000.

Cox, Bobby E., to Snell Offshore Inc. Offshore platform with removable modules. 4,666,340, 5-19-87, Cl. 405-204.000.

Cox, Clifford E.: *See—*
Burns, William P., Jr.; Stout, John A., Jr.; and Cox, Clifford E., 4,699,668, Cl. 134-26.000.

Cox & Company, Inc.: *See—*
Ferguson, Thomas F. W., 4,701,645, Cl. 307-570.000.

Cox, Dan L.: *See—*
Reed, Charles C.; Cooley, Denton A.; Crane, Terry N.; Swanson, Edward A.; Oscarsson, Rolf A.; Liebmann, Vern L.; and Cox, Dan L., 4,637,917, Cl. 422-46.000.

Cox, Darryl R.: *See—*
Cox, Francis C., and Cox, Darryl R., 4,633,962, Cl. 180-65.100.

Cox, David, to Gasohol Energy Pty. Ltd. Process for the manufacture of hydrated oxides and tri- and tetra- basic lead sulphates. 4,673,561, 6-16-87, Cl. 423-559.000.

Cox, David C.; and Marx, Thomas O., to Atwood Vacuum Machine Company. Seat adjuster responsive to tilting of seat back. 4,648,657, 3-10-87, Cl. 297-341.000.

Cox, David H.; Andreas, David W.; and Watkins, James D., to Golden Valley Microwave Foods Inc. Microwave reflective energy concentrating spacer. 4,642,434, 2-10-87, Cl. 219-10.55E.

Cox, David H.; and Andreas, David W., to Golden Valley Microwave Foods Inc. Microwave heating stand with electrically isolated reflector. 4,698,472, 10-6-87, Cl. 219-10.55E.

Cox, David M., Jr., to Cox, David M., Jr. Meat smoker. 4,700,618, 10-20-87, Cl. 99-339.000.

Cox, Delbert L., to NACO Industries, Inc. Plastic Tee fitting. 4,708,374, 11-24-87, Cl. 285-156.000.

Cox, Don C., to Otis Engineering Corporation. Injector for coupled pipe. 4,655,291, 4-7-87, Cl. 166-385.000.

Cox, Donald W.: *See—*
Bergquist, Frank H.; and Cox, Donald W., 4,671,484, Cl. 251-11.000.

Cox, Eugene R., to Harris Corporation. Method to reduce the height of the bird's head in oxide isolated processes. 4,691,222, 9-1-87 Cl. 357-50.000.

Cox, Francis C.; and Cox, Darryl R. Articulated wheel chair. 4,633,962, 1-6-87, Cl. 180-65.100.

Cox, Frederick E.; Rink, Frederick J., Jr.; and Valachovic, Richard A., to General Electric Company. Space block control means for dynamoelectric machine. 4,710,664, 12-1-87, Cl. 310-217.000.

Cox, Frederick E.: *See—*
Torossian, Kevork A.; Markovitz, Mark; and Cox, Frederick E., 4,692,499, Cl. 525-524.000.

Cox, Geral L. Tire skid detector. 4,635,583, 1-13-87, Cl. 116-28.00R.

Cox, Harold A. Low input-capacitance amplifier for driving guard shield conductors. 4,654,603, 3-31-87, Cl. 330-292.000.

Cox, Harold C. Method and apparatus for applying seal coating to asphalt pavement. 4,688,964, 8-25-87, Cl. 404-75.000.

Cox, Harold S., to Roboserve Limited. Substantially static-free, cellular expanded or foamed thermoplastic articles, including cups and containers, and processes for the manufacture of these articles including the manufacture of intermediate materials suitable for use in such manufacture. 4,696,950, 9-29-87, Cl. 521-57.000.

Cox, Herbert M., to AT&T Bell Laboratories. Deposition technique. 4,645,689, 2-24-87, Cl. 427-87.000.

Cox Hobbies, Inc.: *See—*
Selzer, William H.; and Kirn, J. Dale, 4,651,688, Cl. 123-185.00D.

Cox, Ian R.; and Haq, Zia, to Lever Brothers Company. Skin treatment product. 4,659,564, 4-21-87, Cl. 424-65.000.

Cox, James E. Dipolar force field propulsion system. 4,663,932, 5-12-87, Cl. 60-200.100.

Cox, John C.; Morgan, Stephen E.; Hamblett, Martin; and Rubini, Alffed, to Rolls-Royce plc. Aerofoil section members for turbine engines. 4,714,407, 12-22-87, Cl. 415-192.000.

Cox, John E., to ITT Corporation. Apparatus for obtaining reduced pin count packaging and methods. 4,656,620, 4-7-87, Cl. 370-58.000.

Cox, John E.: *See—*
Middleton, Francisco A.; Hargrave, Franklin; and Cox, John E., 4,665,516, Cl. 370-76.000.
Waters, Roger D.; Cox, John E.; and Swofford, Rodney W., 4,665,816, Cl. 100-38.000.

Cox, Karmen D., to Emerson Electric Co. Digital capacitance incremental encoder. 4,694,275, 9-15-87, Cl. 340-347.00P.

Cox, Karmen D.: *See—*
Steiner, Robert E.; Cox, Karmen D.; Terpstra, Daniel A.; Metzger, James J., Jr.; and Plume, Steven H., 4,641,557, Cl. 83-71.000.

Cox, Larry B.; Johnson, William C.; and Marpoe, Roland W., to Poly Farms, Inc., a part interest; and Rand Farms Systems, Inc., a part interest. Agricultural bag loading machine. 4,653,553, 3-31-87, Cl. 141-114.000.

Cox, Mary P. Potpourri holder for ceiling fan. 4,666,670, 5-19-87, Cl. 422-124.000.

Cox, Michael D.; Johnson, Brad A.; and Stewart, Brad B. Wet suit boot. 4,649,656, 3-17-87, Cl. 36-4.000.

Cox, Michael K., to Imperial Chemical Industries PLC. Polymer composition. 4,654,263, 3-31-87, Cl. 428-366.000.

Cox, Michael W.; Levin, Richard I.; Cohen, David J.; and Frisbie, William R., to Q-Med, Inc. Cardiac signal real time monitor and method of analysis. 4,679,144, 7-7-87, Cl. 364-417.000.

Cox, Percy T.; Warren, Wayne F.; and Nussbaum, Theodore W., to Texaco Inc. Deep penetration well logging sonde. 4,700,141, 10-13-87, Cl. 324-341.000.

Cox, Percy T.: *See—*
Nussbaum, Theodore W.; Tooker, Keith R.; and Cox, Percy T., 4,703,278, Cl. 324-344.000.
Savage, Kerry D.; Cox, Percy T.; and Paap, Hans J., 4,636,731, Cl. 324-338.000.
Warren, Wayne F.; Nussbaum, Theodore W.; Cox, Percy T.; and Johnson, Donald L., 4,687,995, Cl. 324-341.000.

Cox, Raleigh L.: *See—*
Beard, Harold J.; and Cox, Raleigh L., 4,634,528, Cl. 210-277.000.

Cox, Raymond E.: *See—*
Ehrlich, Robert M.; and Cox, Raymond E., 4,686,106, Cl. 426-577.000.

Cox, Richard H.; Grubbs, Harvey J.; and Haut, Stephen A., to Philip Morris Incorporated. Smoking compositions containing a glycosylamine flavorant additive. 4,638,816, 1-27-87, Cl. 131-276.000.

Cox, Roger B.: *See—*
Boulter, Donald; Gatehouse, Angharad M. R.; Gatehouse, John A.; and Cox, Roger B., 4,640,836, Cl. 424-195.100.

Cox, Roger W. Mobile home stanchions. 4,684,097, 8-4-87, Cl. 248-354.300.

Cox, Terrence D. Sliding jaw wrench. 4,712,455, 12-15-87, Cl. 81-141.000.

Cox, Thomas B.: *See—*
Cameron, Thomas B.; Swanson, Wilbur W.; Tartaglia, John M.; and Cox, Thomas B., 4,713,111, Cl. 75-68.00R.
Wada, Tsuguyasu; Adenis, Daniel J.; and Cox, Thomas B., 4,662,429, Cl. 164-461.000.

Coxon, Andrew C., to Lever Brothers Company. Process for preparing glucose penta-acetate and xylose tetra-acetate. 4,675,393, 6-23-87, Cl. 536-18.600.

Coxwold (Proprietary) Limited: *See—*
Stoltz, Andries J.; and Kallenbach, Dieter H. F., 4,642,833, Cl. 15-1.700.

Coy, David H., to Tulane Educational Fund. Therapeutic peptides. 4,647,653, 3-3-87, Cl. 530-313.000.

Coy, Jeffrey A., to Brownie Manufacturing Co., Inc. Hydraulic elevator. 4,638,888, 1-27-87, Cl. 187-19.000.

Coy, William H., to Precisionform, Inc. Breakaway standard support assembly. 4,638,608, 1-27-87, Cl. 52-98.000.

Coyle, E. Michael; Reichley, Fred J.; Verbrugge, Calvin J.; and Villarreal, John G., to S. C. Johnson & Son, Inc. Fabric finish with alpha olefin resins and process. 4,680,202, 7-14-87, Cl. 427-389.900.

Coyle, Jan R.; and Stevens, Robert W. Apparatus and method for measuring the time elapsed in increasing or in decreasing vehicle speed from one predetermined speed to a second, higher or lower predetermined speed. 4,647,216, 3-3-87, Cl. 368-2.000.

Coyle, Peter: *See—*
Glover, Roy A.; Coyle, Peter; and Lee, Denis C., 4,702,701, Cl. 434-270.000.

Coyle, William E., Sr. Power tongs controller with persisting torque. 4,679,469, 7-14-87, Cl. 81-470.000.

Coyle, William E., Sr.; and Penisson, Dennis J., to Bilco Tools Inc. Power tongs with hydraulic friction grip for speciality tubing. 4,712,284, 12-15-87, Cl. 29-240.000.

Coyne, Brenton S.; Strandjord, Andrew J.; Spence, Mark W.; Willis, Reid S.; Bredeweg, Robert A.; and Stevens, Timothy S., to Dow Chemical Company, The. Determining organic compounds using a membrane. 4,715,217, 12-29-87, Cl. 73-61.10C.

Coyne, Daniel W.: *See—*

Olson, Carl B.; Plichta, Roman T.; and Coyne, Daniel W., 4,661,265, Cl. 210-804.000.

Coyne & Delany Co.: *See—*

Laverty, Martin J., Jr., 4,709,427, Cl. 4-427.000.

Coyne, Henry: *See—*

Epstein, Paul; Petschek, Harry; LaWhite, Eric; Strohl, Clair; Coyne, Henry; Kaleskas, Edward; and Adaniya, George, 4,696,671, Cl. 604-67.000.

Cozad, C. Paul, to Scipar, Inc. Marking arrangement for aiding aircraft mid-air refueling. 4,644,895, 2-24-87, Cl. 116-200.000.

Cozewith, Charles; Ju, Shiaw; and Ver Strate, Gary W., to Exxon Research & Engineering Co. Nodular copolymers comprising narrow MWD alpha-olefin copolymers coupled by non-conjugated dienes. 4,716,207, 12-29-87, Cl. 526-169.200.

Cozzens, Brian E.; Hopkins, John R.; and Thakrar, Anil C., to AMP Incorporated. Sealed insulation displacement connector. 4,645,285, 2-24-87, Cl. 339-96.000.

Cozzi, Ennio: *See—*

Federici, Franco; Pin, Giorgio; and Cozzi, Ennio, 4,704,420, Cl. 524-233.000.

Cozzoli Machine Co.: *See—*

Ballester, Edwin, 4,640,322, Cl. 141-5.000.

CP Pumpen AG: *See—*

Hauenstein, Ernst, 4,645,433, Cl. 417-420.000.

Hauenstein, Ernst, 4,648,808, Cl. 417-353.000.

CPC International Inc.: *See—*

Datta, Rathin; and Lemmel, Steven A., 4,649,112, Cl. 435-136.000.

David, Marie-Henriette; Gunther, Horst; and de Troostembergh, Jean-Claude, 4,650,757, Cl. 435-96.000.

Reeve, Alan L.; and Nonaka, Henry H., 4,689,409, Cl. 536-102.000.

Urbas, Branko, 4,691,055, Cl. 562-589.000.

CPT Corporation: *See—*

Westreich, Andrew J., 4,650,349, Cl. 400-98.000.

CPUS Corporation: *See—*

Lee, Byong G.; Song, Ju M.; and Kim, Chi S., 4,661,468, Cl. 502-333.000.

CRA Services Limited: *See—*

Harvey, Kaye F.; Johns, Reginald B.; Buchanan, Alan S.; and Cain, David A., 4,701,184, Cl. 44-10.00D.

Crabb, Charles C.: *See—*

Rothman, Alan M.; and Crabb, Charles C., 4,652,530, Cl. 436-92.000.

Crabb, Douglas R.: *See—*

Mathews, Linden H.; and Crabb, Douglas R., 4,677,795, Cl. 52-63.000.

Crabb, Elmer R.: *See—*

Bernhagen, James R.; Crabb, Elmer R.; Murphy, Marilyn S.; Roley, Daniel G.; St. Germain, Gene R.; and Tunnell, James H., 4,700,794, Cl. 180-6.440.

Crabb, Robert M.; DeFoster, Steven M.; Rittenhouse, Norman E.; West, Mark A.; and Ziegler, Richard A., to International Business Machines Corporation. System for measuring and detecting printed circuit wiring defects. 4,650,333, 3-17-87, Cl. 356-376.000.

Crabbe, Edwin P., Jr., to GTE Communication Systems Corporation. Fault tolerant dual port serial link controller. 4,637,011, 1-13-87, Cl. 370-24.000.

Crabbe, Edwin P., Jr., to GTE Communication Systems Corporation. Flexible duplex dual port serial link controller. 4,637,012, 1-13-87, Cl. 370-24.000.

Crabbe, Edwin P., Jr., to GTE Communication Systems Corporation. Arrangement for dynamic range checking or matching for digital values in a software system. 4,692,897, 9-8-87, Cl. 364-900.000.

Crabtree, Andrew: *See—*

Hardy, Alan; Agger, Reginald T.; and Crabtree, Andrew, 4,647,646, Cl. 528-45.000.

Crabtree, Austin A.; Crabtree, James R.; and Crabtree, Jeffrey. Chill temperature meter with selectable response. 4,702,617, 10-27-87, Cl. 374-109.000.

Crabtree, Grace Y., to Union Carbide Corporation. Method of making a coiled electrode assembly. 4,668,320, 5-26-87, Cl. 156-192.000.

Crabtree, James R.: *See—*

Crabtree, Austin A.; Crabtree, James R.; and Crabtree, Jeffrey, 4,702,617, Cl. 374-109.000.

Crabtree, Jeffrey: *See—*

Crabtree, Austin A.; Crabtree, James R.; and Crabtree, Jeffrey, 4,702,617, Cl. 374-109.000.

Crabtree, Luther L.: *See—*

Pelchat, Guy; and Crabtree, Luther L., 4,710,723, Cl. 329-192.000.

Crabtree, Paul J.; and Imakawa, Kazuhiko, to Procter & Gamble Company, The. Detergent composition providing rinse cycle suds and turbidity control containing a soap, quaternary ammonium salt and a silicone. 4,637,890, 1-20-87, Cl. 252-90.000.

Crabtree, Paul J.; and Imakawa, Kazuhiko, to Procter & Gamble Company, The. Detergent composition providing rinse cycle suds control containing a soap, a quaternary ammonium salt and a silicone. 4,686,060, 8-11-87, Cl. 252-90.000.

Crabtree, Timothy L.: *See—*

Blum, Victor; Crabtree, Timothy L.; and Fairchild, Robert G., 4,654,727, Cl. 360-71.000.

Cracia, Robert F.: *See—*

Fromson, Howard A.; and Cracia, Robert F., 4,645,730, Cl. 430-155.000.

Cradeur, Robert R., to Bon Ton Rolle Limited. Tube bundle pulling apparatus. 4,666,365, 5-19-87, Cl. 414-746.000.

Craelius AB: *See—*

Jonsson, Nils G., 4,637,477, Cl. 173-149.000.

Craelius Aktiebolag: *See—*

Jonsson, Nils G., 4,643,262, Cl. 173-149.000.

Craemer, Robert H., to Molins Machine Company, Inc. Phase register control for printer-slotter machine. 4,685,394, 8-11-87, Cl. 101-426.000.

Craenen, Gerardus S. P. M.: *See—*

Mutsers, Stanislaus M. P.; and Craenen, Gerardus S. P. M., 4,701,353, Cl. 427-213.000.

Crafco, Inc.: *See—*

Schave, Floyd D., 4,692,028, Cl. 366-22.000.

Craft House Corporation: *See—*

DeLaney, George E., 4,690,654, Cl. 446-28.000.

Craft, Jack; Low, Michael L.; and Yorkanis, Bernard J., to RCA Corporation. Level shifter for a power supply regulator in a television apparatus. 4,714,871, 12-22-87, Cl. 323-315.000.

Craft, James A.: *See—*

Applegate, Steven L.; and Craft, James A., 4,661,004, Cl. 400-234.000.

Craft, Randy: *See—*

Sutton, Walter T.; Craft, Randy; and Kummer, Stanley F., 4,672,231, Cl. 307-118.000.

Craft, William K., to Batesville Casket Company, Inc. Snap-in casket dish. 4,639,985, 2-3-87, Cl. 27-19.000.

Crafts, Harold S.; and Ham, Patrick L., to NCR Corporation. Negative input voltage CMOS circuit. 4,647,798, 3-3-87, Cl. 307-451.000.

Crafts, Harold S.: *See—*

Gay, Richard B.; and Crafts, Harold S., 4,714,876, Cl. 324-73.00R.

Crager, Bruce L.: *See—*

Watkins, Bruce J.; Regan, Albert M.; Crager, Bruce L.; Fox, Gary L.; and Houlgrave, Robert C., 4,648,747, Cl. 405-195.000.

Craggs, Geoffrey B.: *See—*

Duffy, Edward P.; Craggs, Geoffrey B.; and McGlade, David, 4,653,012, Cl. 364-518.000.

Cragin, Glynn P., Jr.: *See—*

Bradfield, Ganey W.; and Cragin, Glynn P., Jr., 4,709,880, Cl. 244-12.500.

Cragoe, Edward J., Jr.; and Woltersdorf, Otto W., Jr., to Merck & Co., Inc. Substituted-3-(2,3-dihydro-1H-inden-5-yl)-4-hydroxy-1H-pyrrole-2,5-diones, useful for treating persons with gray matter edema. 4,634,717, 1-6-87, Cl. 514-425.000.

Cragoe, Edward J., Jr.; and Woltersdorf, Otto W., Jr., to Merck & Co., Inc. 2,3-dihydro-5-(3-oxo-2-cyclohexen-1-yl)-2-benzofurancarboxylic acids, and their salts useful in the treatment of brain injury. 4,654,365, 3-31-87, Cl. 514-469.000.

Cragoe, Edward J., Jr., to Merck & Co., Inc. [(5,6-dichloro-3-oxo-9a-propyl-2,3,9,9a-tetrahydrofluoren-7-yl)oxy]ethanol and its derivatives. 4,675,341, 6-23-87, Cl. 514-548.000.

Cragoe, Edward J., Jr.; and Woltersdorf, Otto W., Jr., to Merck & Co., Inc. Substituted-3-(2,3-dihydro-1H-inden-5-yl)-4-hydroxy-1H-pyrrole-2,5-diones. 4,680,414, 7-14-87, Cl. 548-544.000.

Cragoe, Edward J., Jr.; Rooney, Clarence S.; and Rokach, Joshua, to Merck & Co., Inc. Anti-asthmatic tetrazolyl 6H-dibenz-[B,E][1,4]oxathiepin derivatives, compositions, and method of use therefor. 4,699,917, 10-13-87, Cl. 514-381.000.

Cragoe, Edward J., Jr.: *See—*

Abraham, Donald J.; Woltersdorf, Otto W., Jr.; and Cragoe, Edward J., Jr., 4,699,926, Cl. 514-563.000.

Willard, Alvin K.; Novello, Frederick C.; Hoffman, William F.; and Cragoe, Edward J., Jr., 4,710,513, Cl. 514-460.000.

Crahay, Jean: *See—*

Monfort, Guy; Crahay, Jean; and Bragard, Adolphe, 4,679,288, Cl. 29-121.800.

Craig, Alan R.; and Gorman, Eileen G., to Du Pont de Nemours, E.I. and Company. High refractive index haloalkyl-functional shell-core polymers and their use in light scattering immunoassays. 4,703,018, 10-27-87, Cl. 436-518.000.

Craig, Clark, to Keycon Industries, Inc. Snap-in semi-flush mounted panel lock. 4,676,081, 6-30-87, Cl. 70-169.000.

Craig, Clark E., to Keycon Hardware Products, Inc. Disc tumbler lock with removable plug. 4,672,827, 6-16-87, Cl. 70-367.000.

Craig, Clark E., to LLC Corporation. Locking system. 4,684,178, 8-4-87, Cl. 312-221.000.

Craig, Clark E., to Valhi, Inc. Locking system. 4,705,326, 11-10-87, Cl. 312-221.000.

Craig, Clark E., to Valhi, Inc. Cylinder lock with removable plug. 4,715,201, 12-29-87, Cl. 70-369.000.

Craig, Daniel H., to Hercules Incorporated. Polyacrylate dispersions. 4,659,771, 4-21-87, Cl. 524-700.000.

Craig, Daniel H., to Hercules Incorporated. Polyacrylate dispersions. 4,670,505, 6-2-87, Cl. 524-704.000.

Craig, Daniel H., to Hercules Incorporated. Hydrophobically modified hydroxyethyl cellulose in aqueous polymerization dispersions. 4,684,704, 8-4-87, Cl. 526-200.000.

Craig, Daniel L.: *See—*

White, Dowell; Craig, Daniel L.; Duke, Jack L.; and Laurie, Donald H., 4,637,211, Cl. 60-650.000.

Craig, Franklin J.: *See—*

Weder, Donald E.; Weder, Erin H.; Ruth, Howard M.; King, Michael J.; Craig, Franklin J.; Jones, Larry J.; Badgley, Kenton D.; Snider, Harry J., deceased; Snider, Laura, legal representative; Dye, S. Owen; Wiedner, Clay R.; Weder, Bill C.; and Langenberg, Robert L., 4,646,388, Cl. 19-80.00R.

Craig, Gale M., to General Motors Corporation. Transistor protection circuit for automotive motor control applications. 4,679,112, 7-7-87, Cl. 361-33.000.

Craig, Grantland A., to Paper Converting Machine Company. Applicator for applying two or more tapes to a moving web. 4,701,239, 10-20-87, Cl. 156-519.000.

Craig, Harold M.; and Feder, Ernest, to United Technologies Corporation. Rotor blade for a rotary machine. 4,650,399, 3-17-87, Cl. 416-97.00R.

Craig, John A. Internal combustion engine rocker arm. 4,694,788, 9-22-87, Cl. 123-90.160.

Craig, John P., to Trigon Packaging Systems Limited. Tamper evident envelope. 4,712,729, 12-15-87, Cl. 229-72.000.

Craig Medical Products Limited: *See—*
  Steer, Graham E., 4,695,279, Cl. 604-397.000.
  Steer, Peter L., 4,636,205, Cl. 604-338.000.
  Steer, Peter L., 4,640,494, Cl. 251-354.000.
  Steer, Peter L., 4,645,500, Cl. 604-378.000.
  Steer, Peter L., 4,668,258, Cl. 55-387.000.
  Steer, Peter L., 4,671,272, Cl. 128-303.00R.
  Steer, Peter L., 4,701,169, Cl. 604-344.000.
  Steer, Peter L., 4,710,183, Cl. 604-344.000.
  Steer, Peter L., 4,714,465, Cl. 604-340.000.

Craig, Paul M. Well head pipe stripper. 4,658,894, 4-21-87, Cl. 166-84.000.

Craig, Preston S.; and Arendale, William F., to United Technologies Corporation. Non-optimum waveguide optical sensor. 4,678,328, 7-7-87, Cl. 356-141.000.

Craig, Randy W.; and Gurley, Thomas D., to RCA Corporation. Television receiver with delayed display. 4,660,093, 4-21-87, Cl. 358-243.000.

Craig, Randy W.; and Duvall, William E., to RCA Corporation. Degaussing coil and ground strap mounting arrangement. 4,700,260, 10-13-87, Cl. 361-150.000.

Craig Systems Corporation: *See—*
  Anderson, Thomas L., 4,691,483, Cl. 52-79.100.

Craig, W. Dale, to United States of America, Navy. Double-stage air filter. 4,634,458, 1-6-87, Cl. 55-316.000.

Craig, Wayne L.: *See—*
  Began, Dennis; and Craig, Wayne L., 4,676,413, Cl. 224-42.03B.

Craig, William A.; and Taylor, Barry E., to Du Pont de Nemours, E. I., and Company. Thick film conductor composition. 4,636,332, 1-13-87, Cl. 252-514.000.

Craig, William G.: *See—*
  Gonzalez, Avelino J.; Murphy, Franklin J.; Emery, Franklin T.; Weyant, Perry A.; and Craig, William G., 4,698,756, Cl. 364-557.000.

Craig, William J.: *See—*
  Cottrell, Peter E.; Craig, William J.; and Troutman, Ronald R., 4,670,669, Cl. 307-297.000.

Craig, William S., to Phillips Petroleum Company. Purification of pichia produced lipophilic proteins. 4,683,293, 7-28-87, Cl. 530-359.000.

Craighead, Jimmy R.: *See—*
  Chen, Peter C., Jr.; Conforto, Peter M.; Craighead, Jimmy R.; and Wolf, David L., 4,709,538, Cl. 53-566.000.

Craighead, Lawrence W., to Minnesota Mining and Manufacturing Company. Biomedical electrode. 4,640,289, 2-3-87, Cl. 128-639.000.

Crain, John E., to Chrysler Motors Corporation. Convertible boot positioning and securing arrangement. 4,669,774, 6-2-87, Cl. 296-136.000.

Crain, N. Robert: *See—*
  Hardison, Robert, and Crain, N. Robert, 4,667,609, Cl. 110-236.000.

Crain, Philip W.; and Openshaw, James D., to Mattel, Inc. Toy train play setting with detachable storage building. 4,669,657, 6-2-87, Cl. 238-10.00A.

Crain, Ronald: *See—*
  Toldi, George; Nigam, Anil; Crain, Ronald; and Mercurio, Dominic, 4,683,506, Cl. 360-105.000.

Crain, Steven L.; and Miller, Homer W., to Honeywell Information Systems Inc. Apparatus providing improved diagnosability. 4,649,539, 3-10-87, Cl. 371-25.000.

Crain, Steven P.: *See—*
  Wang, Pen C.; Stuart, Van I. W.; Yates, Ronald L.; and Crain, Steven P., 4,691,021, Cl. 548-309.000.
  Wang, Pen-Chung; Wang, Chun S.; and Crain, Steven P., 4,672,101, Cl. 528-96.000.
  Wang, Pen-Chung; and Crain, Steven P., 4,692,533, Cl. 548-312.000.

Craine, Eric R.; Forbes, David; Sargent, Thomas A.; and Scott, John S., to Karmar Research Partnership. Optical device for displaying a large two dimensional image. 4,634,882, 1-6-87, Cl. 250-578.000.

Craker, Robert, to Allen-Bradley Company, Inc. Printer circuit board chassis with power interlock. 4,716,495, 12-29-87, Cl. 361-391.000.

Craker, Robert, to Allen-Bradley Company, Inc. Printed circuit board module. 4,716,497, 12-29-87, Cl. 361-395.000.

Cramblett, Jon J. Basketball backboard adjuster. 4,643,422, 2-17-87, Cl. 273-1.50R.

Cramer, Barry G.; and Cramer, Roy A., to Air-O-Lator Corporation. Aerator mast with azimuth lock and bottom stop. 4,671,872, 6-9-87, Cl. 210-219.000.

Cramer, Barry G.; and Cramer, Roy A., to Air-O-Lator Corporation. Aspirating aeration and liquid mixing apparatus. 4,710,325, 12-1-87, Cl. 261-24.000.

Cramer, Eva B.; Milks, Linda C.; Conyers, Gregory P.; Valenti, Andrew; and Perez, Antonio, to Research Foundation of State University of New York, The. Device useful for growing and/or testing biological materials. 4,686,190, 8-11-87, Cl. 435-291.000.

Cramer, Hans, to H. Krantz GmbH & Co. Link chain, especially a tentering chain. 4,680,839, 7-21-87, Cl. 26-89.000.

Cramer, Jerry W.: *See—*
  Borgman, Bradley N.; Cramer, Jerry W.; and Dossey, Don E., 4,712,818, Cl. 294-64.100.

Cramer Products, Inc.: *See—*
  Wirtz, H. Robert, 4,657,003, Cl. 128-133.000.

Cramer, Robert V.: *See—*
  Allan, Thomas T.; and Cramer, Robert V., 4,685,944, Cl. 55-491.000.

Cramer, Roy A.: *See—*
  Cramer, Barry G.; and Cramer, Roy A., 4,671,872, Cl. 210-219.000.
  Cramer, Barry G.; and Cramer, Roy A., 4,710,325, Cl. 261-24.000.

Cramer, Scott L. V-belting. 4,654,020, 3-31-87, Cl. 474-257.000.

Cramer, Scott L. Electric storage battery assembly. 4,684,580, 8-4-87, Cl. 429-9.000.

Cramer, Susanne. Dryer for plastic granules. 4,665,629, 5-19-87, Cl. 34-54.000.

Crameri, Yvo: *See—*
  Broger, Emil A.; and Crameri, Yvo, 4,652,657, Cl. 548-402.000.

Cramm, Gunther: *See—*
  Schroer, Wolf-Dieter; Muszik, Janos; Cramm, Gunther; and Benn, Otto, 4,673,729, Cl. 528-397.000.

Cramm, Jeffrey R.; and Bailey, Kristy M., to Nalco Chemical Company. Water-absorbent acrylic acid polymer gels. 4,698,404, 10-6-87, Cl. 526-204.000.

Cramm, Russell H.: *See—*
  Lancaster, Gerald M.; Kelley, David C.; Cramm, Russell H.; and Neywick, Charles V., 4,640,865, Cl. 428-421.000.

Cramond, Patrick J.: *See—*
  Mierau, Cameron D.; Cramond, Patrick J.; and Beer, Douglas C., 4,685,497, Cl. 144-176.000.

Crampton, John R.; and Whiting, Howard, to Laporte Industries Limited. Absorbent materials. 4,657,881, 4-14-87, Cl. 502-80.000.

Crampton, Lee B.: *See—*
  Campbell, Kent D.; Dietsche, Laura J.; Crampton, Lee B.; Hovda, Keith D.; Tyson, George K.; and Wilson, Charles A., 4,713,231, Cl. 423-356.000.

Crampton, Timothy P. Power-supply/battery back-up power supply/-battery charger combination. 4,672,293, 6-9-87, Cl. 320-14.000.

Crandall, John W.; Deitzler, James E.; Kapicak, Louis A.; and Poppelsdorf, Fedor, to Union Carbide Corporation. Process for the hydrolysis of dialkyl carbonates. 4,663,477, 5-5-87, Cl. 560-204.000.

Crandall, John W.; and Best, Donald C., to Union Carbide Corporation. Recovery of amines from by-product chloride salts. 4,670,232, 6-2-87, Cl. 423-206.00R.

Crandall, Richard S.: *See—*
  Kaganowicz, Grzegorz; Ipri, Alfred C.; and Crandall, Richard S., 4,692,344, Cl. 427-39.000.

Crandall, Robert E.; Kosulic, Kenneth F.; Rooney, Thomas C.; and Smith, Larry C., to Rexnord Inc. Drive system for belt press. 4,681,033, 7-21-87, Cl. 100-118.000.

Crandall, Terry G.; and Chen, Horng-Yih, to Du Pont de Nemours, E. I., and Company. Partitioned reduction process for ferromagnetic chromium dioxide. 4,698,220, 10-6-87, Cl. 423-607.000.

Crandell, Stephen L., to PPG Industries, Inc. Curtainwall system. 4,633,631, 1-6-87, Cl. 52-235.000.

Crandell, Walter R., to Fast Heat Element Manufacturing Co., Inc. Method of making electrically heated nozzles and nozzle systems. 4,641,423, 2-10-87, Cl. 29-611.000.

Crandon, Melody A.: *See—*
  Crandon, Peter D.; Crandon, Melody A.; Holman, William B.; and Holman, John P., 4,643,429, Cl. 273-251.000.

Crandon, Peter D.; Crandon, Melody A.; Holman, William B.; and Holman, John P. Educational board game. 4,643,429, 2-17-87, Cl. 273-251.000.

Crane, Burke: *See—*
  Nigg, Daniel; DeRoss, Robert; Sommer, Edward; Raymer, Jack D., II; and Crane, Burke, 4,659,157, Cl. 339-18.00R.

Crane Canada Inc.: *See—*
  Liberman, Richard, 4,679,770, Cl. 251-328.000.

Crane Co.: *See—*
  Cook, Robert D., 4,668,021, Cl. 303-93.000.
  Crane, Timothy T., 4,652,015, Cl. 283-91.000.

Crane Co. (Hydro-Aire Division): *See—*
  Hirzel, Edgar A.; and Longyear, Douglas M., Jr., 4,671,650, Cl. 356-28.000.

Crane, David P., to Activision, Inc. Video memory system. 4,644,495, 2-17-87, Cl. 364-900.000.

Crane Electronics, Inc.: *See—*
  Bryce, J. Robert, 4,655,517, Cl. 339-17.0LC.
  Bryce, J. Robert, 4,682,839, Cl. 439-598.000.

Crane, Frederick G., Jr.: *See—*
  Klein, Max, 4,643,182, Cl. 128-201.250.
  Klein, Max, 4,713,285, Cl. 428-283.000.

Crane, Herbert R.; and Valentine, Richard D., to Hobart Corporation. Spray system for a dishwashing machine. 4,657,188, 4-14-87, Cl. 239-557.000.

Crane, Jacob; Muench, George J.; Saleh, Yousef; and Lin, Lifun, to Olin Corporation. Method of producing ferromagnetic particles. 4,657,583, 4-14-87, Cl. 75-0.5AA.

Crane, Jacob; Muench, George J.; Saleh, Yousef; and Lin, Lifun, to Olin Corporation. Techniques for preparing magnetic particles having utility in recording media. 4,698,140, 10-6-87, Cl. 204-146.000.

Crane, James W., to Dresser Industries, Inc. Interlock for the throttle and parking brake of a vehicle. 4,635,767, 1-13-87, Cl. 192-3.00M.

Crane, Lawrence A.: *See—*

  Tschernenko, Stanley A.; Crane, Lawrence A.; and Boyce, Jay, 4,636,935, Cl. 364-140.000.

Crane, Michael P.; and Marsh, David J., to Membrain Limited. Method and apparatus for generating sequence of multibit words. 4,638,481, 1-20-87, Cl. 371-27.000.

Crane, Nancy S.: *See—*

  Cobb, Ronald W.; Lollis, Charles A.; and Crane, Nancy S., 4,641,448, Cl. 40-606.000.

Crane, Robert L., to United States of America, Air Force. Non-destructive evaluation method for coated carbon-carbon composites. 4,661,369, 4-28-87, Cl. 427-8.000.

Crane, Roger M.; and Macander, Aleksander B., to United States of America, Navy. Resin impregnation and processing technique for rigidizing net-shaped fibrous skeletal composite preforms. 4,695,344, 9-22-87, Cl. 156-242.000.

Crane, Ronald C. Local computer network transceiver. 4,649,548, 3-10-87, Cl. 375-7.000.

Crane, Russell M.: *See—*

  Maloney, Christopher E.; and Crane, Russell M., 4,679,202, Cl. 372-65.000.

Crane, Stephen M.: *See—*

  Brenholt, David L.; Crane, Stephen M.; Fischer, Paul M.; and Mattson, Kenneth V., 4,693,663, Cl. 414-735.000.

Crane, Terry N.: *See—*

  Reed, Charles C.; Cooley, Denton A.; Crane, Terry N.; Swanson, Edward A.; Oscarsson, Rolf A.; Liebmann, Vern L.; and Cox, Dan L., 4,637,917, Cl. 422-46.000.

Crane, Timothy T., to Crane Company. Security paper for currency and banknotes. 4,652,015, 3-24-87, Cl. 283-91.000.

Craneveyor Corp.: *See—*

  Batcheller, Roy W., 4,690,383, Cl. 256-24.000.

Cranford, Hayden C., Jr.; and Garvin, Stacy J., to International Business Machines Corporation. Charge pump system for non-volatile ram. 4,638,464, 1-20-87, Cl. 365-226.000.

Cranford, William R.: *See—*

  Deacon, George R.; and Cranford, William R., 4,711,752, Cl. 264-328.120.

Crank, Ronald K.: *See—*

  Llinas, Rodolfo R.; Sugimori, Mutsuyuki; and Crank, Ronald K., 4,677,982, Cl. 128-664.000.

Crankshaft Machine Company: *See—*

  Baker, Gary L., 4,638,537, Cl. 29-40.000.

Cranney, Don H.; Gordon, David L.; and Hales, Richard H., to IRECO Incorporated. Cast explosive composition and method. 4,678,524, 7-7-87, Cl. 149-21.000.

Crans, Debbie C.: *See—*

  Whitesides, George M.; Crans, Debbie C.; and Kazlaukas, Romas J., 4,701,285, Cl. 260-545.00P.

Cransac, Jean-Pierre; Jacquelin, Roland; and Renaux, Charley, to Commissariat a l'Energie Atomique; and Electricite de France Service National. Apparatus for handling nuclear fuel assemblies and assembly adapted to such an apparatus. 4,663,114, 5-5-87, Cl. 376-271.000.

Cransac, Jean-Pierre; Jogand, Patrick; and Sauvage, Michel, to Electricite de France Service National. Fast neutron nuclear reactor equipped with a central handling cell and a boxed slab. 4,705,661, 11-10-87, Cl. 376-206.000.

Cranston, Albert E., III; and Kudlicka, Mark L., to Cranston Machinery Co., Inc. Contamination deflector system for bale binding machines. 4,697,510, 10-6-87, Cl. 100-14.000.

Cranston, Dean H.: *See—*

  Spehrley, Charles W., Jr.; Schneider, Gary W.; Lipkie, Curtis A.; and Cranston, Dean H., 4,686,581, Cl. 358-294.000.

Cranston Machinery Co., Inc.: *See—*

  Cranston, Albert E., III; and Kudlicka, Mark L., 4,697,510, Cl. 100-14.000.

Crapanzano, Angelo T., to Loral Corporation. Antiskid system monitoring circuit. 4,709,223, 11-24-87, Cl. 340-52.00B.

Crapo, Clark C.: *See—*

  Malpass, Dennis B.; Fannin, Loyd W.; Crapo, Clark C.; and Triplett, Kelly B., 4,707,462, Cl. 502-153.000.

Crapser, James R.; and Malek, Edward J., to S. C. Johnson & Son, Inc. Valve actuator. 4,679,713, 7-14-87, Cl. 222-402.130.

Crapser, James R.; and Demarest, Scott W., to S. C. Johnson & Son, Inc. Dual function cap. 4,690,312, 9-1-87, Cl. 222-402.170.

Crary Company: *See—*

  Majkrzak, David S., 4,651,511, Cl. 56-310.000.

Crass, Guenther; Bursch, Annegrete; and Hammerschmidt, Peter, to Hoechst Aktiengesellschaft. Support film and pressure-sensitive adhesive tape. 4,673,611, 6-16-87, Cl. 428-215.000.

Crass, Guenther; Bothe, Lothar; and Schloegl, Gunter, to Hoechst Aktiengesellschaft. Coextruded, biaxially oriented, multi-layer and capacitor made therefrom. 4,692,837, 9-8-87, Cl. 361-313.000.

Crass, Guenther: *See—*

  Bothe, Lothar; and Crass, Guenther, 4,698,261, Cl. 428-204.000.

  Janocha, Siegfried; Crass, Guenther; Bothe, Lothar; and Schloegl, Gunter, 4,663,219, Cl. 428-213.000.

  Seifried, Walter; and Crass, Guenther, 4,716,068, Cl. 428-141.000.

Crass, Gunther; Janocha, Siegfried; and Bothe, Lothar, to Hoechst Aktiengesellschaft. Sealable, opaque polyolefinic multilayer film and process therefor. 4,652,489, 3-24-87, Cl. 428-337.000.

Crast, Leonard B., Jr., to Bristol-Myers Company. 3-propenyl cephalosporin solvates. 4,694,079, 9-15-87, Cl. 540-215.000.

Crathern Engineering Co., Inc.: *See—*

  Boucher, Ronald H., 4,701,238, Cl. 156-479.000.

  Porat, Thomas M., 4,708,759, Cl. 156-360.000.

Cratsa, Steve N. Fishing rod tender with automatic fish hook setting feature. 4,677,783, 7-7-87, Cl. 43-15.000.

Craun, Gary P.: *See—*

  Hunter, Wood E.; and Craun, Gary P., 4,654,378, Cl. 522-3.000.

  Hunter, Wood E.; and Craun, Gary P., 4,666,964, Cl. 524-106.000.

  Lin, Ju-Chui; Abbey, Kirk J.; Craun, Gary P.; and Robinson, Peter V., 4,683,271, Cl. 525-403.000.

Craver, Richard D., to Orrville Products, Inc. Secondary combustion device for woodburning stove. 4,672,946, 6-16-87, Cl. 126-77.000.

Cravotta, Samuel A. Weed cutter and extractor. 4,641,712, 2-10-87, Cl. 172-25.000.

Crawford, Bradly A., to A. O. Smith Corporation. Self-aligning bearing retention system. 4,634,298, 1-6-87, Cl. 384-209.000.

Crawford, Brian F., to Crellin, Inc. Fiber optic cable reel. 4,657,203, 4-14-87, Cl. 242-125.100.

Crawford, Carl R., to General Electric Company. Method and apparatus for back projection image reconstruction using virtual equi-spaced detector array. 4,636,952, 1-13-87, Cl. 364-414.000.

Crawford, Carl R., to General Electric Company. Method and apparatus for imaging in the presence of multiple high density objects. 4,709,333, 11-24-87, Cl. 364-414.000.

Crawford, Carl R.; and Freundlich, David A., to Elscint, Inc. Data reduction in reprojection systems. 4,714,997, 12-22-87, Cl. 364-414.000.

Crawford, Carl R.: *See—*

  Gullberg, Grant T.; and Crawford, Carl R., 4,703,424, Cl. 364-414.000

Crawford, Christopher L., to RCA Corporation. Television camera structure. 4,652,930, 3-24-87, Cl. 358-227.000.

Crawford, Christopher L.: *See—*

  Sides, Richard J., Sr.; Crawford, Christopher L.; Nunweiler, Raymond J., Jr.; Muth, David L.; and Hope, George P., 4,643,493, Cl. 312-7.200.

Crawford, Donald C.; Ross, Jeffrey L.; Strike, Gary P.; and Mory, Steven W., to FMC Corporation. Computer controlled horizontal wrapper. 4,712,357, 12-15-87, Cl. 53-450.000.

Crawford, Douglass W.; Crawford, William B.; and Crawford, Mark S. Side pocket mandrel. 4,715,441, 12-29-87, Cl. 166-117.500.

Crawford, Duffer B.: *See—*

  Tarakad, Ramanathan R.; and Crawford, Duffer B., 4,693,731, Cl. 55-72.000.

Crawford Fitting Co.: *See—*

  Zahuranec, Emery J.; and Musil, James C., 4,678,380, Cl. 408-211.000.

Crawford, Frank B.: *See—*

  Mueller, Peter R.; Brown, Alan S.; Tolkoff, Marc J.; and Crawford, Frank B., 4,705,040, Cl. 128-334.00R.

Crawford, George V.; and DaSilva, Paul F., to Gore & Storrie Limited. Hybrid high rate anaerobic treatment process. 4,676,906, 6-30-87, Cl. 210-603.000.

Crawford, Gordon, to British Nuclear Fuels plc. Apparatus for changing jaws on manipulators. 4,674,936, 6-23-87, Cl. 414-729.000.

Crawford, Gregan F., to Hewlett-Packard Company. Electrical connectors. 4,634,210, 1-6-87, Cl. 339-176.0MP.

Crawford, Gregan F., to Hewlett-Packard Company. Electrical connectors. 4,647,140, 3-3-87, Cl. 339-176.0MP.

Crawford, James A., to Hughes Aircraft Company. Fast phase-lock frequency synthesizer with variable sampling efficiency. 4,634,998, 1-6-87, Cl. 331-1.00A.

Crawford, James A.; and Frey, Gary D., to Hughes Aircraft Company. Fast phase-lock frequency synthesizer. 4,668,922, 5-26-87, Cl. 331-1.00A.

Crawford, James B. Method and apparatus for the running and pulling of wire-line tools and the like in an oil or gas well. 4,682,657, 7-28-87, Cl. 166-385.000.

Crawford, James G., to American Standard Inc. Hot water heating and defrost in a heat pump circuit. 4,646,537, 3-3-87, Cl. 62-238.600.

Crawford, James P. Auxiliary incinerator apparatus. 4,685,403, 8-11-87, Cl. 110-194.000.

Crawford, John F., to United States of America, Army. Two component thru-bulkhead initiator. 4,653,400, 3-31-87, Cl. 102-202.000.

Crawford, Johnathan G. Facial muscles exercise mask. 4,666,148, 5-19-87, Cl. 272-95.000.

Crawford, Mark S.: *See—*

  Crawford, Douglass W.; Crawford, William B.; and Crawford, Mark S., 4,715,441, Cl. 166-117.500.

Crawford, Micheal B., to Dresser Industries, Inc. Method for case hardening rock bits and rock bits formed thereby. 4,679,640, 7-14-87, Cl. 175-374.000.

Crawford, Neville: *See—*

  Gray, Charles R. W.; and Crawford, Neville, 4,680,177, Cl. 424-101.000.

Crawford, Peter F.; and Trotman, Steven, to Automotive Products plc. Friction material and carrier plate assembly. 4,646,900, 3-3-87, Cl. 192-107.00R.

Crawford, Peter F.: *See—*

  Maycock, Ian C.; and Crawford, Peter F., 4,697,684, Cl. 192-107.00R.

Crawford, R. A., to Armco, Inc. Unitized check valve. 4,667,697, 5-26-87, Cl. 137-543.170.

Crawford, Robert D.; Johnson, Wayne J.; Kimber, Theo, Jr.; Nolff, Douglas; Volk, Jack R.; and Franks, Donald C., to Ford Motor npany. Vehicular data transfer communication system. 4,715,031, 2-87, Cl. 370-85.000.

ord, Robert J., to Motorola, Inc. Programmable multifrequency tal tone receiver. 4,709,344, 11-24-87, Cl. 364-724.000.

ford, Roger A.: *See—*

da, Robert H.; Crawford, Roger A.; and Chakrabarti, Paritosh M., 4,693,894, Cl. 424-150.000.

ford, Renald L., to University of Minnesota, Regents of the. degradation of pentachlorophenol. 4,713,340, 12-15-87, Cl. 253.000.

ford, Thomas A.; and Russell, William H., to Unique Industries, rporated. Self-cleaning high speed boring tool. 4,655,650, 4-7-87, 408-225.000.

ford, Thomas C., to Pfizer Inc. Process for making 2-oxindole-1- boxamides and intermediates therefor. 4,652,658, 3-24-87, Cl. 468.000.

ford, Thomas C., to Pfizer Inc. Process for making 2-oxindole-1- boxamides and intermediates therefor. 4,665,194, 5-12-87, Cl. 486.000.

ford, Thomas C.; Keely, Stanley L.; Larson, David L.; Lombar- , Joseph G.; and Maciejko, James J., to Pfizer Inc. Antiinflamma- compositions and methods. 4,672,061, 6-9-87, Cl. 514-222.000.

ford, Wheeler C.: *See—*

weeney, William M.; Zoleski, Benjamin H.; Sung, Rodney L. D.; and Crawford, Wheeler C., 4,704,217, Cl. 252-32.70E.

oleski, Benjamin H.; Crawford, Wheeler C.; and Sung, Rodney L., 4,681,694, Cl. 252-51.50R.

ford, William B.: *See—*

rawford, Douglass W.; Crawford, William B.; and Crawford, Mark S., 4,715,441, Cl. 166-117.500.

ford, William W.: *See—*

eMarsh, Peter L., and Crawford, William W., 4,654,496, Cl. 219-69.00R.

shay, Richard: *See—*

Iradil, John H.; Bottomley, Frank; and Crawshay, Richard, 4,648,776, Cl. 414-565.000.

Research, Inc.: *See—*

August, Melvin C.; Bowen, Stephen A.; and Williams, John T., 4,700,996, Cl. 439-268.000.

Chen, Steve S.; Schiffleger, Alan J.; Semdahl, Eugene R.; and Higbie, Lee, 4,636,942, Cl. 364-200.000.

Chen, Steve S.; and Schiffleger, Alan J., 4,661,900, Cl. 364-200.000.

Cray, Seymour R., 4,638,188, Cl. 307-453.000.

, Seymour R., to Cray Research, Inc. Phase modulated pulse logic gallium arsenide. 4,638,188, 1-20-87, Cl. 307-453.000.

craft, Donald G., and Pham, Giao N., to NCR Corporation. FET ver circuit with mask programmable transition rates. 4,634,893, 6-87, Cl. 307-270.000.

craft, Donald G.; and Pham, Giao N., to NCR Corporation. Cur- nt sinking responsive MOS sense amplifier. 4,636,664, 1-13-87, Cl. 7-530.000.

ton, John W.: *See—*

Hafele, Joseph C., and Crayton, John W., 4,685,066, Cl. 364-509.000.

-Evans Pipeline International, Inc.: *See—*

Slavens, Clyde M., 4,635,839, Cl. 228-29.000.

Thompson, Floyd M., 4,658,112, Cl. 219-125.120.

, Dominic: *See—*

Nath, Prem; Crea, Dominic; and Murray, Allen, 4,654,468, Cl. 136-256.000.

aden, David E., to Lawrence Paper Company. Fluorescent tube unnage. 4,705,170, 11-10-87, Cl. 206-419.000.

agan, Richard P.: *See—*

Wiesehahn, Gary P.; Creagan, Richard P.; Stevens, David R.; and Giles, Richard, 4,693,981, Cl. 435-238.000.

agan, Richard W., to Black Clawson Company, The. Horizontal win wire paper machine. 4,702,800, 10-27-87, Cl. 162-300.000.

amer, Edward V.: *See—*

Eaton, Robert L.; and Creamer, Edward V., 4,656,971, Cl. 122-4.00D.

amer, Glenn E.: *See—*

Norman, Alan B.; and Creamer, Glenn E., 4,649,941, Cl. 131-336.000.

Norman, Alan B.; and Creamer, Glenn E., 4,649,942, Cl. 131-336.000.

an, Gerald J.; and Soulard, Roger R., to Wang Laboratories Inc. Sheet feeding apparatus. 4,652,161, 3-24-87, Cl. 400-625.000.

an, Robert F. High rigidity, low center of gravity polar mount for lish type antenna. 4,652,890, 3-24-87, Cl. 343-882.000.

asey, Abla A.: *See—*

Mark, David F.; Wang, Alice M.; Ladner, Martha B.; Creasey, Abla A.; Lin, Leo S.; and Van Arsdell, Janelle, 4,677,063, Cl. 435-68.000.

Mark, David F.; Wang, Alice M.; Ladner, Martha B.; Creasey, Abla A.; Van Arsdell, Janelle N.; and Lin, Leo S., 4,677,064, Cl. 435-68.000.

asy, Walter S.; Lorenz, Donald H.; LaCasse, Robert G.; and Mala- greca, Salvatore A., to Hydromer, Inc. Hydrophilic polymer blend. 642,267, 2-10-87, Cl. 428-413.000.

ation Windows, Inc.: *See—*

Hotovy, Robert, 4,636,421, Cl. 428-156.000.

ative Associates: *See—*

Lahr, Roy J., 4,657,418, Cl. 400-229.000.

Lahr, Roy J., 4,661,005, Cl. 400-489.000.

ative Design Technologies, Ltd.: *See—*

Birkhauser, Robert R., 4,654,757, Cl. 362-61.000.

Creative Energy Technologies, Inc.: *See—*

Cullin, John, 4,663,937, Cl. 60-431.000.

Creative Medical Systems, Inc.: *See—*

Ihlenfeld, William, III, 4,667,682, Cl. 128-711.000.

Creative Metal Designs Ltd.: *See—*

Kane, Patrick J., 4,691,492, Cl. 52-519.000.

Creative Packaging Machinery, Inc.: *See—*

Bennett, Charles J.; and Hinson, Terry F., 4,650,535, Cl. 156-352.000.

Creative Products Resource Associates, Ltd.: *See—*

Smith, James A.; and Kellett, George W., 4,673,523, Cl. 252-91.000.

Smith, James A.; and Murphy, Betty J., 4,690,821, Cl. 424-401.000.

Creative Sales & Mfg. Co., Inc.: *See—*

Ohs, Gary L.; and Byers, Timothy W., 4,711,538, Cl. 350-604.000.

Creative Talent, Inc.: *See—*

Espo, Andrew M., 4,705,355, Cl. 350-117.000.

Credali, Lino; Corsi, Gianfranco; and Chiolle, Antonio, to Montedison S.p.A. Process for preparing two-component synthetic fibers suited for replacing cellulose fibers. 4,710,336, 12-1-87, Cl. 264-171.000.

Credit, Lawrence. Mirror message label. 4,659,111, 4-21-87, Cl. 283-81.000.

Credle, William S., Jr., to Coca-Cola Company, The. Double acting diaphragm pump and reversing mechanism therefor. 4,634,350, 1-6-87, Cl. 417-393.000.

Credle, William S., Jr., to Coca-Cola Company, The. Single-acting, gas operated pump. 4,681,518, 7-21-87, Cl. 417-395.000.

Credle, William S., Jr., to Coca-Cola Company, The. Double-acting diaphragm pump and reversing mechanism therefor. 4,682,937, 7-28-87, Cl. 417-393.000.

Credle, William S., Jr.: *See—*

Rudick, Arthur G.; and Credle, William S., Jr., 4,709,734, Cl. 141-2.000.

Creech, Arthur R., Jr.: *See—*

Hale, William J.; Horst, William R.; and Creech, Arthur R., Jr., 4,689,478, Cl. 235-380.000.

Creech, Clyde W. Beam profile cutting machine and method. 4,707,898, 11-24-87, Cl. 29-155.00R.

Creech, Richard D.: *See—*

Baker, Bruce R.; Creech, Richard D.; and Smith, Kenneth W., 4,661,916, Cl. 364-513.500.

Creed, Brian T.: *See—*

Glennon, Thomas F.; Creed, Brian T.; Walsh, William J.; and Sokalski, Robert G., 4,671,116, Cl. 73-728.000.

Creed, John, to Smabathavner a.s. Arrangement for interconnecting concrete pontoons. 4,697,539, 10-6-87, Cl. 114-266.000.

Creed, Sherman H.; Thompson, Wesley G.; Mughannam, Adil A.; and Beverly, Robert G., to FMC Corporation. Sterilizing apparatus. 4,646,629, 3-3-87, Cl. 99-468.000.

Creed, Sherman H.; and Beverly, Robert G., to FMC Corporation. Sterile cooling method. 4,666,722, 5-19-87, Cl. 426-393.000.

Creed, Sherman H.; and Wang, Danny I., to FMC Corporation. Seal integrity testing. 4,706,494, 11-17-87, Cl. 73-49.300.

Creedon, Richard L., to GA Technologies Inc. Barrel assembly for electromagnetic rail gun. 4,641,567, 2-10-87, Cl. 89-8.000.

Creedon, Richard L., to GA Technologies Inc. Rail gun barrel with axially prestressed insulators. 4,681,015, 7-21-87, Cl. 89-8.000.

Creedon, Richard L., to GA Technologies Inc. Rail gun barrel with gas containment means. 4,681,016, 7-21-87, Cl. 89-8.000.

Creedon, Richard L., to GA Technologies Inc. Variable modulus filament wound pressure tube. 4,693,281, 9-15-87, Cl. 138-174.000.

Creel, Kirby B. Voltage regulating device using transistor means for voltage clipping and having load current compensation. 4,684,876, 8-4-87, Cl. 323-268.000.

Creger, Todd D.: *See—*

Hadank, John M.; and Creger, Todd D., 4,712,376, Cl. 60-427.000.

Creighton, David E., to British-American Tobacco Company Limited. Smoking articles. 4,644,963, 2-24-87, Cl. 131-336.000.

Creissels, Denis. Multicable cable-car or gondola lift. 4,691,642, 9-8-87, Cl. 104-173.100.

Crellin, Inc.: *See—*

Crawford, Brian F., 4,657,203, Cl. 242-125.100.

Crema, Rolf, to Ernst Leitz Wetzlar GmbH. Film advance mechanism. 4,711,545, 12-8-87, Cl. 354-213.000.

Crema, Rolf, to Ernst Leitz Wetzlar GmbH. Device for adjustment of the viewfinder eyepiece of a camera. 4,712,897, 12-15-87, Cl. 354-219.000.

Crema, Stefano C., to BASF Corporation. Acidizing concentrates for oil well acidizing systems. 4,676,916, 6-30-87, Cl. 252-8.553.

Cremaschi, Gianfranco: *See—*

Tognoli, Pietro; Cremaschi, Gianfranco; Migliacci, Antonio; and Bono, Giancarlo, 4,703,890, Cl. 238-7.000.

Cremer, Heinz P.; Wittig, Werner; and Voss, Hans W., to Keiper Recaro GmbH & Co. Vehicle seat. 4,685,727, 8-11-87, Cl. 297-180.000.

Cremer, Heinz P.; Wolsiefer, Harald; Hoffmann, Manfred; Deegener, Elmar; and Franzmann, Gunter, to Keiper Recaro GmbH & Co. Hinge fitting. 4,713,986, 12-22-87, Cl. 74-805.000.

Cremer, Heinz P.: *See—*

Putsch, Peter-Ulrich; and Cremer, Heinz P., 4,679,854, Cl. 297-486.000.

Cremona-Bonato, G. Stump shrinking apparatus for above knee amputees. 4,644,946, 2-24-87, Cl. 128-165.000.

Cremonesi, Gianluigi, to Fimtessile Fabbrica Italiana Macchinario Tessile S.p.A. Negative dobby for weaving looms. 4,687,028, 8-18-87, Cl. 139-71.000.

Cremosnik, Gregor; Timper, Joachim; and Holzberger, Johann, to Werkzeugmaschinenfabrik Oerlikon-Buhrle AG. Apparatus for guiding a missile. 4,709,875, 12-1-87, Cl. 244-3.130.

Crenova AB: *See—*

Klingstedt, Holger, 4,671,698, Cl. 403-341.000.

Crenshaw, Michael E.: *See—*

Daigle, Richard A., Sr.; Stanfield, William G.; and Crenshaw, Michael E., 4,696,602, Cl. 405-205.000.

Crenshaw, Ronnie R.: *See—*

Algieri, Aldo A.; and Crenshaw, Ronnie R., 4,644,006, Cl. 514-362.000.

Algieri, Aldo A.; and Crenshaw, Ronnie R., 4,692,531, Cl. 548-193.000.

Crepaldi, Giulio, to Aluminia S.p.A. Deformable berth for vehicle cabs. 4,664,438, 5-12-87, Cl. 296-190.000.

Crepeau, Allen E., to Uniroyal Chemical Company, Inc. Roof sheeting or roof flashing. 4,666,785, 5-19-87, Cl. 428-521.000.

Crepinsek, Alois. Simultaneously operated dead bolt lock and security chain. 4,639,024, 1-27-87, Cl. 292-264.000.

Creps, Wendell D.; and Orrell, William B., to General Motors Corporation. System for predicting catalytic converter temperature. 4,656,829, 4-14-87, Cl. 60-277.000.

Cresap, Elmer. Method and apparatus for disabling a starter. 4,668,874, 5-26-87, Cl. 307-10.0AT.

Crescentini, Lamberto: *See—*

James, Leonard E.; Fisher, William B.; Crescentini, Lamberto; and Browning, Joseph M., 4,692,321, Cl. 423-404.000.

Crescenzi, Robert J.: *See—*

Roberts, Gerald E.; Toliver, Samuel; and Crescenzi, Robert J., 4,676,993, Cl. 427-10.000.

Crespin, Gerard, to Framatome & Cie. Device for calibrating a machine tool. 4,649,757, 3-17-87, Cl. 73-862.060.

Crespin, Gerard, to Framatome & Cie. Device for piercing a hole through a metal workpiece by electrical discharge. 4,665,293, 5-12-87, Cl. 219-69.00V.

Crespin, Gerard; and Coussau, Jean, to Framatome & Cie. Device and process for fixing two parts with a captive screw. 4,681,495, 7-21-87, Cl. 411-298.000.

Cressey, John R., to Hayes Microcomputer Products, Inc. Digital data modulator and digital-to-analog converter. 4,686,490, 8-11-87, Cl. 332-1.000.

Cressman, Peter M.: *See—*

Becht, Cletus A.; Cressman, Peter M.; Head, William J.; and White, John R., 4,689,106, Cl. 156-406.200.

Cresswell, Pearson J.; Grayson, Ian L.; and Smith, Andrew H., to Comalco Aluminum Limited. Recovery of sodium aluminate from Bayer process red mud. 4,668,485, 5-26-87, Cl. 423-119.000.

Cresswell, Richard, to General Electric Company, p.l.c., The. Antenna drive. 4,652,887, 3-24-87, Cl. 343-766.000.

Cresswell, Robert L. Odor trap assembly. 4,706,701, 11-17-87, Cl. 137-247.410.

Cresswell, Thomas A. Disassemblable sulky for attachment to a steerable front wheel assembly. 4,708,219, 11-24-87, Cl. 180-11.000.

Crest-Foam Corporation: *See—*

Mozieka, Michael; and Fisher, Leo, 4,656,906, Cl. 83-451.000.

Creswell, Paul J.: *See—*

Spradley, Willie D.; and Creswell, Paul J., 4,714,238, Cl. 254-93.00R.

Creswick, Norman S., to Thomas J. Lipton, Inc. Tea extraction process. 4,668,525, 5-26-87, Cl. 426-597.000.

Cretin, Jacques; Beauducel, Claude; Rudaz, Jean; and Gonzalez, Pierre, to Institut Francais du Petrole; and Compagnie Generale de Geophysique. Device for supplying electric power to electronic apparatuses of an acoustic wave receiving assembly of great length. 4,636,992, 1-13-87, Cl. 367-20.000.

Cretin, Jacques; Rudaz, Jean; and Gonzalez, Pierre, to Institut Francais du Petrole; and Compagnie Generale de Geophysique. Device for determining the position in the water of an elongate element towed while submerged. 4,644,506, 2-17-87, Cl. 367-19.000.

Cretin, Jacques: *See—*

Therond, Jean-Francois; and Cretin, Jacques, 4,669,060, Cl. 364-900.000.

Creusot-Loire: *See—*

Pido, Jean-Claude, 4,652,021, Cl. 285-81.000.

Creutz, Helmut, to Semikron Gesellschaft fur Gleichrichterbau und Elektronik m.b.H. Semiconductor device for current rectification. 4,646,130, 2-24-87, Cl. 357-79.000.

Creutz, Walter; Dahlhaus, Peter; and Hofmann, Heinz, to Hoesch Aktiengesellschaft. Track spike with a single or double shaft. 4,714,195, 12-22-87, Cl. 238-349.000.

Creuzet, Marie-Helene; Feniou, Claude; Guichard, Francoise; Pontagnier, Henri; and Prat, Gisele, to Societe Cortial, S.A. (Alkoxy-2)phenylpiperazines having alpha-1 and beta blocking properties. 4,698,343, 10-6-87, Cl. 514-255.000.

Creuzet, Marie-Helene: *See—*

Pontagnier, Henri; Creuzet, Marie-Helene; Feniou, Claude; Guichard, Francoise; and Prat, Gisele, 4,668,681, Cl. 514-255.000.

Crevling, R. Lent, Jr.: *See—*

Berfield, Robert C.; Crevling, R. Lent, Jr.; Meland, Ronald F.; and Fegan, Richard M., 4,658,458, Cl. 15-49.00C.

Crevling, Robert L., Jr.: *See—*

Berfield, Robert C.; and Crevling, Robert L., Jr., 4,635,951, Cl. 280-47.340.

Berfield, Robert C.; Crevling, Robert L., Jr.; and Rightnour, Donald G., 4,650,200, Cl. 280-47.260.

Crew, Albert W.; Ghrist, William D., III; and Remley, Gilbert W., Westinghouse Electric Corp. Testing sensor signal processor 4,692,299, 9-8-87, Cl. 376-216.000.

Crew, Albert W.: *See—*

Sutherland, James F.; Crew, Albert W.; and Kenny, Thomas 4,700,174, Cl. 340-347.0CC.

Crews, Nancy B.: *See—*

Simmons, Billy R., 4,637,156, Cl. 43-21.200.

Crews, Purvis J.: *See—*

Bailey, Randal N.; and Crews, Purvis J., 4,690,455, Cl. 297-238.0

Creydt, Martin; Bickle, Wolfgang; and Pfestorf, Harald, to Kolbensc midt Aktiengesellschaft. Synchronizing ring and process of manufa turing the same. 4,679,681, 7-14-87, Cl. 192-107.00M.

Cribbs, Doyle E.: *See—*

Johnson, Richard E.; Johnson, Robert R.; and Cribbs, Doyle 4,657,336, Cl. 339-258.00R.

Cribbs, Timothy B.: *See—*

Polansky, Jon L.; Rice, Douglas N.; Tomcanin, William J.; a Cribbs, Timothy B., 4,692,216, Cl. 201-1.000.

Cricchi, James R.; and Blaha, Franklin C., to United States of Ameri Air Force. Direct moat self-aligned field oxide technique. 4,685,1 8-11-87, Cl. 437-41.000.

Crich, David: *See—*

Barton, Derek H. R.; Crich, David; and Motherwell, William 4,668,356, Cl. 204-157.600.

Crichton, Robert: *See—*

Anton, Octavian; Crichton, Robert; and Lenders, Jean-Pi 4,683,203, Cl. 435-94.000.

Crider, Brian D. View expansion enclosure with venting me 4,683,687, 8-4-87, Cl. 52-72.000.

Cridland, John E.: *See—*

Covington, Edward J.; Cridland, John E.; and Gorman, John 4,695,768, Cl. 315-73.000.

Criegern, Rolf V.; and Weitzel, Ingo, to Siemens Aktiengesellsch Method and apparatus for the compensation of charges in secon ion mass spectrometry (SIMS) of specimens exhibiting poor elect conductivity. 4,645,929, 2-24-87, Cl. 250-307.000.

Crigger, James, to Thermotech D.L.C., Inc. Temperature indica means for fire fighters. 4,650,707, 3-17-87, Cl. 428-100.000.

Crill, Philip D.; and Rubin, Michael D., to Ford Aerospace & Com nications Corporation. r.f. Phase modulator. 4,710,733, 12-1-87 332-26.000.

Crimestopper Security Products, Inc.: *See—*

Peterson, Larry O., 4,702,094, Cl. 70-241.000.

Crimmins, Thomas R., and Brown, William M., to Environm Research Institute of Michigan. Method and apparatus for auto shape recognition. 4,644,585, 2-17-87, Cl. 382-48.000.

Criner, Charles B.; and Winnett, Jerry A., to Atlantic Richfield pany. Light weight, high strength reinforced metal horse 4,655,293, 4-7-87, Cl. 168-4.000.

Criner, Gaspard X.: *See—*

Rittschof, Daniel; Criner, Gaspard X.; and Bonaventura, Jo 4,704,286, Cl. 426-1.000.

Cringle, David C.; Pearce, Roscoe L.; and DuPart, Michael S., to Chemical Company, The. Method for maintaining effective cor inhibition in gas scrubbing plant. 4,690,740, 9-1-87, Cl. 204-147

Crinos Industria Farmacobiologica S.p.A.: *See—*

Bonomini, Vittorio, 4,649,134, Cl. 514-44.000.

Prino, Giuseppe; Mantovani, Marisa; and Niada, Ric 4,693,995, Cl. 514-44.000.

Crinos International: *See—*

Ferro, Antonio, 4,707,293, Cl. 252-174.170.

CRIOS S.p.A.: *See—*

De Rossi, Claudio, 4,664,614, Cl. 425-185.000.

Cripps, Henry: *See—*

Varga, Andre; and Cripps, Henry, 4,700,538, Cl. 57-90.000.

Cripps, Martin D.; and Field, Anthony J., to National Research D opment Corporation. Interconnection networks. 4,714,922, 12- Cl. 340-825.000.

Crisafulli, Emilio: *See—*

Nisato, Dino; Crisafulli, Emilio; Bianchetti, Alberto; and minati, Paolo, 4,691,019, Cl. 546-330.000.

Crisci, Robert E., to (Nepco) Northern Eng. & Plastics Corp. S twist off tamper-proof closure for containers. 4,658,977, 4-21- 215-256.000.

Crisci, Robert E., to Northern Engineering and Plastics Corp. S tamper indicating closure for containers. 4,667,839, 5-26- 215-256.000.

Crisci, Robert E., to Northern Engineering and Plastics Corp. T indicating closure for containers. 4,687,114, 8-18-87, Cl. 215-2

Crisci, Victor. Vehicle flasher. 4,692,736, 9-8-87, Cl. 340-81.00R

Criscimagna, Tony N.; Hoffman, Harry S., Jr.; and Knecht, Wil to International Business Machines Corporation. Video mode panel display. 4,683,470, 7-28-87, Cl. 340-771.000.

Criscione, John M.: *See—*

Montgomery, Lionel C.; and Criscione, John M., 4,670,2 264-26.000.

Crisio, Raymond A., Jr.; and Black, Jerry R. Tree planting m 4,660,479, 4-28-87, Cl. 111-2.000.

Crisis Communication, Inc.: *See—*

Mason, Stanley I., Jr.; Wolfe, Allan P.; and Turner, Ro 4,706,600, Cl. 118-31.500.

Crisman, Elton M., Jr.: *See—*

Adams, Mark J.; and Crisman, Elton M., Jr., 4,647,2 374-5.000.

Crismatec: *See—*

Le Gal, Herve; and Damelet, Jean L., 4,664,744, Cl. 156-616.00R.

Criss, Russell C.: *See—*

Gillery, F. Howard; and Criss, Russell C., 4,692,389, Cl. 428-622.000.

Gillery, F. Howard; Criss, Russell C.; and Finley, James J., 4,716,086, Cl. 428-630.000.

Crissman, John S., III; Windingland, Lyle N.; and Kribs, Natalie A., to William Beaumont Hospital. Infusion pump/controller flow sensor support bracket. 4,706,368, 11-17-87, Cl. 29-526.00R.

Crist, Owen K., to Kennametal Inc. Braze fixtures for use in drilling tools. 4,688,652, 8-25-87, Cl. 175-410.000.

Crist, Owen K.: *See—*

Leibee, Donald L.; and Crist, Owen K., 4,711,312, Cl. 175-393.000.

Crist, Wilmer W.; and Firmin, Dan. Cementing tool. 4,709,760, 12-1-87, Cl. 166-285.000.

Cristescu, Alex G.; and Conea, Christopher A., to Northern Telecom Limited. Apparatus for connecting conductors to terminals of a cross-connect connector for communication lines. 4,709,463, 12-1-87, Cl. 29-566.300.

Cristian, Flaviu I.: *See—*

Aghili, Houtan; Cristian, Flaviu I.; and Strong, Hovey R., 4,644,542, Cl. 371-22.000.

Cristiani, Athos, to Sasib S.p.A. Device for wrapping a junction band around a pair of cigarettes. 4,640,013, 2-3-87, Cl. 131-94.000.

Cristobal, Carlos C.: *See—*

Palacio, Joaquim J.; and Cristobal, Carlos C., 4,665,677, Cl. 52-693.000.

Critchfield, Frank E.: *See—*

Simroth, Donald W.; Critchfield, Frank E.; and Myerly, Richard C., 4,652,589, Cl. 521-137.000.

Critchley, Peter: *See—*

Bews, Brian; Critchley, Peter; Durrant, James A.; Stebles, Malcolm R. D.; and Tipping, Leigh R. H., 4,659,560, Cl. 424-47.000.

Bews, Brian; Critchley, Peter; Durrant, James A.; Stebles, Malcolm R. D.; and Tipping, Leigh R. H., 4,708,863, Cl. 424-47.000.

Critchlow, David N.: *See—*

Paneth, Eric; Critchlow, David N.; and Yehushua, Moshe, 4,644,561, Cl. 375-9.000.

Criticare Systems, Inc.: *See—*

Ricciardelli, Robert H., 4,713,095, Cl. 55-189.000.

Critikon GmbH: *See—*

Veracchi, F. Baldo, 4,652,262, Cl. 604-250.000.

Critikon, Inc.: *See—*

Danby, Hal C.; and Ritson, Carl, 4,674,722, Cl. 248-231.300.

Ramsey, Maynard, III; Medero, Richard; and Hood, Rush W., Jr., 4,638,810, Cl. 128-681.000.

Criton Technologies: *See—*

Docktor, Kenneth E.; and Pulido, Robert J., 4,664,771, Cl. 204-297.00W.

Sadigh-Behzadi, Amir-Akbar, 4,705,332, Cl. 439-69.000.

Critten, Donald L., to National Research Development Corporation. Natural-light illumination enhancement assembly. 4,634,222, 1-6-87, Cl. 350-263.000.

Crittenden, James F.; and Weitzner, Barry D., to C. R. Bard, Inc. Thermorecanalization catheter and method for use. 4,654,024, 3-31-87, Cl. 604-49.000.

Crittenden, William, to Biljanic, Matt. Rotary internal combustion engine. 4,638,776, 1-27-87, Cl. 123-235.000.

Crivella, Charles; and Stouse, Lee A. Method of manufacture of bone implant porous surfaces. 4,650,109, 3-17-87, Cl. 228-194.000.

Crivello, James V., to General Electric Company. Free-radical, initiators, curable compositions, and methods. 4,675,426, 6-23-87, Cl. 556-464.000.

Crivello, James V., to General Electric Company. Silicone-organic block polymers and method for making. 4,677,169, 6-30-87, Cl. 525-479.000.

Crivello, James V.; and Lee, Julia L., to General Electric Company. Photopolymerizable organic compositions and diaryliodonium salts used therein. 4,683,317, 7-28-87, Cl. 556-64.000.

Crivello, James V., to General Electric Company. Block polymer compositions. 4,689,289, 8-25-87, Cl. 430-270.000.

Crivello, James V., to General Electric Company. Aromatic polyvinyl ethers and heat curable molding compositions obtained therefrom. 4,705,887, 11-10-87, Cl. 560-190.000.

Crnojevich, Ranko: *See—*

Wiewiorowski, Edward I.; Tinnin, Luther R.; and Crnojevich, Ranko, 4,670,229, Cl. 423-55.000.

Croce, Carlo M., to Wistar Institute, The. Detection of B-cell neoplasms. 4,701,409, 10-20-87, Cl. 435-6.000.

Croce, Carlo M.: *See—*

Kozbor, Danuta; and Croce, Carlo M., 4,693,975, Cl. 435-172.200.

Croce, Carlo P., to Warner-Lambert Company. Electronic airtightness tester. 4,663,964, 5-12-87, Cl. 73-49.300.

Croce, Frank D. Air conditioning cooling device. 4,672,817, 6-16-87, Cl. 62-183.000.

Croce, Louis J.: *See—*

Bajars, Laimonis; and Croce, Louis J., 4,658,074, Cl. 585-380.000.

Crochet, Gerard: *See—*

De Paepe, Thijlbert; and Crochet, Gerard, 4,709,583, Cl. 73-861.170.

Croci, Tiziano: *See—*

Cecchi, Roberto; Boigegrain, Robert; Bianchetti, Alberto; Poggesi, Elena; and Croci, Tiziano, 4,707,497, Cl. 514-647.000.

Crockatt, William B.; and Rimma, John, to DeSoto, Inc. Aqueous water-repellent coatings. 4,681,910, 7-21-87, Cl. 524-487.000.

Crocker, Christopher, to Imperial Chemical Industries PLC. Polymeric films. 4,704,325, 11-3-87, Cl. 428-323.000.

Crocker, Robert L.: *See—*

Bowyer, William H.; Crocker, Robert L.; Hansford, Christopher M.; Parker, Leslie K.; and Gray, Nigel, 4,678,194, Cl. 273-373.000.

Crockett, Dennis D.: *See—*

Melfi, Teresa; Young, Ronald F.; and Crockett, Dennis D., 4,675,056, Cl. 148-24.000.

Weaver, Robert J.; Young, Ronald F.; and Crockett, Dennis D., 4,683,011, Cl. 148-26.000.

Crockett, Peter N.; Jewett, Robert P.; Scriver, Arthur J.; and Tucker, Thomas A., to International Business Machines Corporation. Pipelined control apparatus with multi-process address storage. 4,646,236, 2-24-87, Cl. 364-200.000.

Croe, Henri, to Caritas, Centrale d'Articles de Marques. Display and dispensing unit. 4,676,395, 6-30-87, Cl. 221-2.000.

Croft, Alan P., to Dow Chemical Company, The. 2-methyl-4-benzyl-5-oxazolidinone. 4,698,433, 10-6-87, Cl. 548-228.000.

Croft, David C., to British Telecommunications plc. Electronic switch with automatic protective turn-off followed by automatic reset. 4,686,393, 8-11-87, Cl. 307-200.00B.

Croft, George, to Canadian A.S.E. Limited. Incremental adjustment device for seat assemblies. 4,657,303, 4-14-87, Cl. 297-362.000.

Croft, George; and Hiscox, Martyn, to Canadian A.S.E. Limited. Inertial latching mechanism for seat assemblies. 4,707,010, 11-17-87, Cl. 297-379.000.

Croft, John E. Aperture seal for a roof mounted ventilator and method for making same. 4,709,624, 12-1-87, Cl. 98-119.000.

Croft Metals, Inc.: *See—*

Bancroft, Joseph C., 4,713,861, Cl. 16-222.000.

Croix, Raymond: *See—*

Wolcott, Edward O.; and Croix, Raymond, 4,667,361, Cl. 15-236.00R.

Croizier, Jacques: *See—*

Pascal, Jean-Pierre; Giovachini, Jean-Luc; and Croizier, Jacques, 4,677,354, Cl. 318-153.000.

Croket, Francis M., to AMSTED Industries Incorporated. Pressure filter cake-breaking method and apparatus. 4,714,557, 12-22-87, Cl. 210-769.000.

Croll, Theodore P. Hand-held light filter. 4,640,685, 2-3-87, Cl. 433-141.000.

Croll, Theodore P. Dental tray light shield. 4,655,712, 4-7-87, Cl. 433-229.000.

Croll, Theodore P. Finger-mounted light filter. 4,662,842, 5-5-87, Cl. 433-141.000.

Croman, Stanley W. T.; Jordan, Janet M.; and Paukovits, Edward J., Jr., to AMP Incorporated. Belt conveyor having article sorting and orienting features. 4,690,266, 9-1-87, Cl. 198-238.000.

Crombie, Terence G.; and Wong, Bernard K., to Insul-Rib, Inc. Inflatable greenhouse vent cover. 4,672,888, 6-16-87, Cl. 98-29.000.

Cromemco, Inc.: *See—*

Kausch, Marvin L., 4,677,574, Cl. 364-521.000.

Cromer, Charles J. Freeze protection valve for solar heaters. 4,681,088, 7-21-87, Cl. 126-420.000.

Crommelynck, Roger; and Quartier, Eddy, to N. V. Bekaert S.A. Machine for retreading pneumatic tires. 4,670,082, 6-2-87, Cl. 156-405.100.

Crompton, Gordon J., to Crompton Machine Company Limited. Amusement machine having randomized bonus payout. 4,662,636, 5-5-87, Cl. 273-138.00A.

Crompton, Jane A.: *See—*

Baile, Gnaneshwar R.; Crompton, Jane A.; and McMahon, Daniel F., 4,689,420, Cl. 556-460.000.

Crompton & Knowles Corporation: *See—*

Den Boer, Patrick; Heinze, Richard F.; Meyers, Benjamin L.; and Mallik, Barendra C., 4,652,313, Cl. 106-289.000.

Den Boer, Patrick; and Heinze, Richard F., 4,693,751, Cl. 106-209.000.

Heinze, Richard F., 4,636,261, Cl. 106-289.000.

Rowe, Jay E., 4,654,045, Cl. 8-527.000.

Crompton Machine Company Limited: *See—*

Crompton, Gordon J., 4,662,636, Cl. 273-138.00A.

Cromwell Paper Company, The: *See—*

Weil, David M.; Lieberman, Burton E.; and Adams, Ronald F., 4,687,698, Cl. 428-209.000.

Cron, Alain: *See—*

Kristen, Ulrich; Haring , Ulrich; Fischer, Francis; and Cron, Alain, 4,713,186, Cl. 252-30.000.

Periard, Jacques; and Cron, Alain, 4,710,307, Cl. 252-18.000.

Cronan, Charles L., to Miller Brewing Company. Method and apparatus for detecting relative dynamic liquid surface activity. 4,646,562, 3-3-87, Cl. 73-64.400.

Cronauer, Edward A.: *See—*

Picone, John D.; and Cronauer, Edward A., 4,684,821, Cl. 307-106.000.

Cronch, Darell D.; Fisher, Richard T.; Graham, Patricia A.; and Passafiume, John E., to International Business Machines Corporation. Self-adjusting homing for a stepping motor. 4,706,008, 11-10-87, Cl. 318-696.000.

Cronch, Robert D.; and Koudele, Larry J., to Magnetic Peripherals Inc. Circuit for phase locking a clock signal to a series of pulses. 4,712,076, 12-8-87, Cl. 331-16.000.

Crone, Gerald A. E.: *See—*

Roederer, Antoine G.; and Crone, Gerald A. E., 4,647,938, Cl. 343-756.000.

Cronemiller, Richard N.: *See—*

Cappel, James W.; and Cronemiller, Richard N., 4,668,522, Cl. 426-94.000.

Cronenberger, Michel; Lateltin, Paul; and Rustant, Robert, to Rhone-Poulenc Specialites Chimiques. Semi-permeable membrane structure that is particularly suitable for plasmapheresis. 4,702,835, 10-27-87, Cl. 210-321.720.

Cronenwett, Duane; and Gottfried, Robert W. Apparatus and method for injecting trees. 4,698,935, 10-13-87, Cl. 47-57.500.

Cronin, Dennis C., to Beloit Corp. Press apparatus for pressing a moving web. 4,704,192, 11-3-87, Cl. 162-360.100.

Cronin, James J., to Microgon, Inc. Combined fluid filter and delivery tubing. 4,695,382, 9-22-87, Cl. 210-436.000.

Cronin, John V., to M&T Chemicals Inc. Device for aligning a photomask onto a printed wiring board. 4,698,284, 10-6-87, Cl. 430-5.000.

Cronin, Michael G., to Caterpillar Inc. Integrated dual brake mechanism. 4,667,784, 5-26-87, Cl. 192-4.00A.

Cronin, Michael J., to Lockheed Corporation. Multifunction power system for an aircraft. 4,684,081, 8-4-87, Cl. 244-58.000.

Cronin, Penny S. Gloved splint. 4,706,658, 11-17-87, Cl. 128-77.000.

Cronk, Evelyn I.: *See—*

Browning, Michael R.; Cronk, Evelyn I.; and Adams, Phillip A., 4,642,945, Cl. 52-10.000.

Cronkhite, Paul W.; Bosley, Bruce C.; Jones, James H.; and Patel, Asit G., to Motorola, Inc. Polishing system with underwater Bernoulli pickup. 4,653,231, 3-31-87, Cl. 51-5.00R.

Cronkhite, Paul W.; Bosley, Bruce C.; Jones, James H.; and Patel, Asit G., to Motorola, Inc. Apparatus for polishing semiconductor wafers. 4,680,893, 7-21-87, Cl. 51-5.00R.

Cronson, Harry M.; and Ross, Gerald F., to Sperry Corporation. Baseband detector with anti-jam capability. 4,688,041, 8-18-87, Cl. 342-17.000.

Cronson, Harry M.; and Mara, Richard M., to Sperry Corporation. Short pulse receiver with anti-jam capability. 4,688,042, 8-18-87, Cl. 342-19.000.

Crook, Archie W.: *See—*

Brady, Michael B. C.; and Crook, Archie W., 4,673,896, Cl. 333-13.000.

Crook, James C. Digital speed control of motors. 4,680,515, 7-14-87, Cl. 318-318.000.

Crook, James D.; and Miller, Laurence B. Extendable dipperstick for excavators and backhoes. 4,699,562, 10-13-87, Cl. 414-718.000.

Crook, John A.; and Taylor, Garth A. Ophthalmic surgical drape support. 4,699,131, 10-13-87, Cl. 128-132.00D.

Crook, Paul; and Zordan, Richard D., to Cabot Corporation. Nuclear grade steels. 4,643,767, 2-17-87, Cl. 420-12.000.

Crook, Paul: *See—*

Sridhar, Narasi; and Crook, Paul, 4,678,523, Cl. 148-325.000.

Crooker, Richard M., to Pennwalt Corporation. Polyurethane foams from isocyanate, polyester polyol and chlorodifluoromethane. 4,636,529, 1-13-87, Cl. 521-131.000.

Crooker, Ronald H.: *See—*

Kasevich, Raymond S.; McQueeney, James F.; and Crooker, Ronald H., 4,700,716, Cl. 128-804.000.

Crookes, Derek L., to Glaxo Group Limited. Process for forming Form 2 ranitidine hydrochloride. 4,672,133, 6-9-87, Cl. 549-495.000.

Crooks, Lawrence E., to University of California, The Regents of the. Apparatus and method for T1 NMR imaging using spin echo NMR responses elicited by initial excitation pulses of differing nutation values. 4,698,593, 10-6-87, Cl. 324-309.000.

Crooks, Lawrence E.: *See—*

Arakawa, Mitsuaki; Fehn, John H.; and Crooks, Lawrence E., 4,695,801, Cl. 324-318.000.

Hoenninger, John C., III; and Crooks, Lawrence E., 4,707,661, Cl. 324-309.000.

Crooks, Robert C., to Barcus-Berry Electronics, Inc. Reference load amplifier correction system. 4,638,258, 1-20-87, Cl. 330-149.000.

Crookshanks, Rex J., to Hughes Aircraft Company. Calibrated radio frequency analog spectrum analyzer. 4,652,816, 3-24-87, Cl. 324-77.00B.

Crookshanks, Rex J., to Hughes Aircraft Company. Calibrated radio frequency sweep. 4,667,151, 5-19-87, Cl. 324-77.00B.

Crookshanks, Rex J., to Hughes Aircraft Company. Calibrated overlapping frequency sweep. 4,679,161, 7-7-87, Cl. 364-571.000.

Crookshanks, Rex J., to Hughes Aircraft Company. FDMA communications channel synchronizer. 4,715,029, 12-22-87, Cl. 370-70.000.

Crookston, Byron F., deceased; and by Crookston, JenaVee S., administrator. Light emitting device. 4,697,890, 10-6-87, Cl. 350-407.000.

Crookston, JenaVee S., administrator: *See—*

Crookston, Byron F., deceased; and Crookston, JenaVee S., administrator, 4,697,890, Cl. 350-407.000.

Crookston, Ronald W.; and Meyer, Jeffry R., to Electric Power Research Institute, Inc. Actuator for electrical circuit interrupter using nitrocellulose type solid propellant. 4,641,000, 2-3-87, Cl. 200-148.00R.

Crookston, Ronald W.; and Burney, Ivan T., to Westinghouse Electric Corp. Circuit interrupter having a chemical operator with double-acting drive means. 4,686,337, 8-11-87, Cl. 200-148.00F.

Croom, Warren J., Jr.; and Hagler, Winston M., Jr., to North Carolina State University. Method of releasing growth hormones. 4,647,567, 3-3-87, Cl. 514-299.000.

Croom, Warren J., Jr.; and Hagler, Winston M., Jr., to North Carolina State University. Method of maintaining ruminants on high energy low fiber diet. 4,652,571, 3-24-87, Cl. 514-299.000.

Croon & Lucke Maschinenfabrik GmbH & Co. KG: *See—*

Arendt, Gerhard; Brodbeck, Klaus-Peter; Engenhart, Reinhold; Schmidt, Viktor; and Wedler, Klaus, 4,642,965, Cl. 53-118.000.

Croonen, Werner: *See—*

Graef, Kurt; Axt, Egon; Wirtz, Hans-Peter; Lauscher, Friedrich; Potzsch, Werner; Korfer, Peter; Sastrarahardja, Paulus; Croonen, Werner; and Serf, Josef, 4,649,763, Cl. 74-763.000.

Croopnick, Bruce J.; and Fletcher, David W., to Sumiko, Inc. Intensified field focus moving coil phonocartridge assembly. 4,675,859, 6-23-87, Cl. 369-147.000.

Crop Control Products Limited: *See—*

Pay, Christopher C., 4,679,735, Cl. 239-708.000.

Crop, Roland E., to Tektronix, Inc. Digital minimum-maximum value sequence processor. 4,713,771, 12-15-87, Cl. 364-487.000.

Crosbie, Donald A. Apparatus and method of shoring masonry, stone, concrete and other materials over openings in buildings. 4,681,290, 7-21-87, Cl. 248-225.310.

Crosbie, Gary M., to Ford Motor Company. Metalloid precursor powder and method of making same. 4,687,606, 8-18-87, Cl. 264-8.000.

Crosbie, Richard J.; Colombo, Joseph; and Grant, J. Wallace, to United States of America, Navy. Arterial blood velocity to volume flow converter. 4,667,678, 5-26-87, Cl. 128-663.000.

Crosby, Charlie P., Jr., to Lockheed Corporation. Adjustable ball mandrel. 4,671,096, 6-9-87, Cl. 72-466.000.

Crosby, Edward L., Jr., to RCA Corporation. Valve apparatus. 4,688,758, 8-25-87, Cl. 251-230.000.

Crosby, Gaius P.: *See—*

Sanderson, Robert A.; and Crosby, Gaius P., 4,704,970, Cl. 109-73.000.

Crosby Group, Inc., The: *See—*

Patton, Jerry C., 4,669,907, Cl. 403-78.000.

Crosby, Jane M.; and Hutchins, MaryGail K., to LNP Corporation. Fiber reinforced thermoplastics containing silicone interpenetrating polymer networks. 4,695,602, 9-22-87, Cl. 524-439.000.

Crosby, Martin G., to Serotonin Industries of Charleston. Method and compositions for controlling pain, depression and sedation. 4,698,342, 10-6-87, Cl. 514-253.000.

Crosby, Michael A.; and Foss, Art J., to Mattel, Inc. Toy rotating gear accessory for use with gyroscopic top. 4,695,262, 9-22-87, Cl. 446-236.000.

Crosby, Samuel C.: *See—*

Gaunt, Loraine E.; Crosby, Samuel C.; Saunders, William J.; and Bruffey, Robert D., Jr., 4,635,824, Cl. 222-129.100.

Gaunt, Loraine E.; Crosby, Samuel C.; Saunders, William J.; and Bruffey, Robert D., Jr., 4,711,374, Cl. 222-129.100.

Crosby Valve & Gage Company: *See—*

Walter, John F., 4,635,675, Cl. 137-315.000.

Croset, Michael R.; and Lane, Martin, to De La Rue Systems Limited. Method and apparatus for sensing sheets. 4,650,991, 3-17-87, Cl. 250-223.00R.

Croset, Michel R.; Lane, Martin; Winchester, Roy E.; and Worsley, David R., to De La Rue Systems Limited. Method and apparatus for monitoring sheets for overlapping. 4,707,598, 11-17-87, Cl. 250-223.00R.

Croset, Michel R.: *See—*

Wake, David E.; Robinson, Anthony L.; and Croset, Michel R., 4,708,335, Cl. 271-187.000.

Crosfield Electronics Limited: *See—*

Aughton, John E., 4,645,302, Cl. 350-173.000.

Aughton, John E., 4,659,185, Cl. 350-394.000.

Aughton, John E., 4,660,975, Cl. 356-308.000.

Fry, Andrew R., 4,635,376, Cl. 33-384.000.

Parkyn, Derek J., 4,675,725, Cl. 358-22.000.

Roe, Malcolm D. M.; and Hicks, Michael E., 4,716,384, Cl. 332-7.510.

Rosen, Martin; and Manley, George C., 4,647,962, Cl. 358-78.000.

Ross, Peter F.; Rodgers, Ian W.; and Goodings, Rupert L. A., 4,647,908, Cl. 340-347.0DD.

Yeadon, Edward C., 4,647,158, Cl. 350-358.000.

Crosfield Electronics (USA) Limited: *See—*

Fry, Richard L.; and Beaumont, Richard J., 4,698,692, Cl. 358-299.000.

Johnson, Anthony J.; and Franklin, Paul E., 4,647,963, Cl. 358-80.000.

Roe, Malcolm D. M.; and Hicks, Michael E., 4,700,149, Cl. 332-7.510.

Sepai, Dinyar, 4,698,515, Cl. 250-578.000.

Stansfield, Peter W.; and Reed, Alastair, 4,668,980, Cl. 358-80.000.

Cross, Andrew L.; and Moran, Thomas F., Jr., to Midwest Plastic Fabricators, Inc. Apparatus for forming plastic pipe couplings. 4,687,432, 8-18-87, Cl. 425-387.100.

Cross, Barringtin: *See—*

Los, Marinus; Ladner, David W.; and Cross, Barringtin, 4,650,514, Cl. 71-90.000.

Cross, Barrington: *See—*

O'Neal, Thomas D.; Bhalla, Prithvi R.; and Cross, Barrington, 4,643,755, Cl. 71-76.000.

Cross, Carroll N. Desk calendar. 4,696,118, 9-29-87, Cl. 40-120.000.

Cross Company, The: *See—*

Compton, Ronald E., 4,653,360, Cl. 82-18.000.

Smith, Michael D.; and Dobat, Daniel F., 4,692,074, Cl. 409-233.000.

Cross, Dan A., to Boeing Company, The. Connector block for use wit a robotic wire harness assembly system. 4,692,974, 9-15-87, Cl. 29 33.00M.

Cross, Dan A., to Boeing Company, The. Turn gate for use with a robotic wire harness assembly system. 4,704,775, 11-10-87, Cl. 29-33.00M.
Cross, Dan A., to Boeing Company, The. Wire routing tool for robotic wire harness assembly. 4,715,100, 12-29-87, Cl. 29-33.00M.
Cross, Dan A.: *See—*
  Bloch, Joseph T.; and Cross, Dan A., 4,677,734, Cl. 29-564.200.
Cross, Douglas A.: *See—*
  van Gilluwe, Frank L.; Dunham, Samuel B.; and Cross, Douglas A., 4,677,661, Cl. 379-159.000.
Cross, H. Edwin, Sr.: *See—*
  Moss, Ted C.; Kenney, William H.; Boing, Earl V., Jr.; and Cross, H. Edwin, Sr., 4,656,686, Cl. 15-147.00A.
Cross-Hansen, Alan: *See—*
  Bunza, Peter; and Cross-Hansen, Alan, 4,702,696, Cl. 432-205.000.
Cross, Joseph B.: *See—*
  Jones, Ronald D.; and Cross, Joseph B., 4,684,041, Cl. 222-161.000.
Cross, Leslie E.: *See—*
  Fang, Chang-Shui; Xi, Yao; Chen, Zhi-Xiong; Bhalla, Amar S.; and Cross, Leslie E., 4,648,991, Cl. 252-1.000.
Cross, Lindsay E.: *See—*
  Watson, Keith G.; Garson, Lynette A.; Bird, Graham J.; Cross, Lindsay E.; and Farquharson, Graeme J., 4,666,510, Cl. 71-103.000.
Cross, Marshall W., to Science Applications International Corporation. Omniazimuthal antenna. 4,697,191, 9-29-87, Cl. 343-809.000.
Cross, Michael A.; and Nichols, Edward W., to Westinghouse Electric Corp. Optical beam analyzer. 4,693,600, 9-15-87, Cl. 356-121.000.
Cross, Michael A.; and Nichols, Edward W., to Westinghouse Electric Corp. Device for characterizing wide angle beams. 4,712,914, 12-15-87, Cl. 356-121.000.
Cross, Neill C. Color processing system for television camera. 4,706,114, 11-10-87, Cl. 358-50.000.
Cross, Peter: *See—*
  Scifres, Donald R.; Cross, Peter; and Harnagel, Gary L., 4,716,568, Cl. 372-36.000.
Cross, Peter E.; and Dickinson, Roger P., to Pfizer Inc. N-(phenoxyalkyl)imidazoles as selective inhibitors of the thromboxane synthetase enzyme and pharmaceutical compositions thereof. 4,636,500, 1-13-87, Cl. 514-234.000.
Cross, Peter E.: *See—*
  Alker, David; Campbell, Simon F.; and Cross, Peter E., 4,654,353, Cl. 514-334.000.
  Arrowsmith, John E.; Campbell, Simon F.; Cross, Peter E.; and Dickinson, Roger P., 4,647,565, Cl. 514-260.000.
  Campbell, Simon F.; Cross, Peter E.; Stubbs, John K.; and Arrowsmith, John E., 4,661,485, Cl. 514-247.000.
  Campbell, Simon F.; Cross, Peter E.; Stubbs, John K.; and Arrowsmith, John E., 4,670,449, Cl. 514-341.000.
Cross, Richard A., to Rockwell International Corporation. Linearizer circuit for frequency modulation oscillator. 4,675,618, 6-23-87, Cl. 332-18.000.
Cross, Richard A., to Rockwell International Corporation. Frequency modulation monitor circuit and method. 4,694,263, 9-15-87, Cl. 332-20.000.
Cross, Robert J.; and Barabino, William A., to Barabino, William A. Single use disposable medical razor. 4,696,106, 9-29-87, Cl. 30-41.000.
Cross, Stephen D., to FMC Corporation. Citrus juice extractor. 4,700,620, 10-20-87, Cl. 99-510.000.
Cross, Virginia R.: *See—*
  Poeppelmeier, Kenneth R.; Funk, Walter G.; Steger, John J.; Fung, Shun C.; Cross, Virginia R.; and Kao, Jar-Lin, 4,648,960, Cl. 208-138.000.
  Tauster, Samuel J.; Montagna, Angelo A.; Steger, John J.; Fung, Shun C.; and Cross, Virginia R., 4,634,517, Cl. 208-138.000.
Cross, Wiley E., Jr., to Cardwell Machine Company, The. Recirculating pneumatic separator. 4,701,256, 10-20-87, Cl. 209-139.100.
Cross, William D. Ball bat having grooved knob. 4,653,754, 3-31-87, Cl. 273-72.00R.
Cross, William E.; Hillestad, Jeanne E.; and Plyler, Robert G., to General Motors Corporation. Electrical connector. 4,711,509, 12-8-87, Cl. 439-587.000.
Cross, William T., and Ramshaw, Colin, to Imperial Chemical Industries plc. Heat pumps. 4,656,839, 4-14-87, Cl. 62-476.000.
Crossett, Edward H. Convertible sofa mechanism. 4,694,514, 9-22-87, Cl. 5-12.00R.
Crossett, Joseph J.; and Crossett, Mark C., to Crossett & Sons, Inc. Fuel preheater for diesel engines. 4,700,047, 10-13-87, Cl. 219-205.000.
Crossett, Mark C.: *See—*
  Crossett, Joseph J.; and Crossett, Mark C., 4,700,047, Cl. 219-205.000.
Crossett & Sons, Inc.: *See—*
  Crossett, Joseph J., and Crossett, Mark C., 4,700,047, Cl. 219-205.000.
Crossfield, Philip M., to Boeing Company, The. Missile appendage deployment mechanism. 4,664,339, 5-12-87, Cl. 244-3.280.
Crossin, Michael C., to Colgate-Palmolive Company. Stable soil release promoting enzymatic liquid detergent composition. 4,661,287, 4-28-87, Cl. 252-542.000.
Crossin, Michael C., to Colgate-Palmolive Company. Stable soil release promoting liquid detergent containing stabilized enzymes. 4,715,990, 12-29-87, Cl. 252-551.000.
Crossin, Michael C.: *See—*
  Inamorato, Jack T.; and Crossin, Michael C., 4,652,394, Cl. 252-174.120.
  Inamorato, Jack T.; and Crossin, Michael C., 4,670,179, Cl. 252-174.000.
Crossland, William A.; Ross, Peter W.; and Collings, Neil, to Standard Telephones and Cables Public Limited Company. Dynamic hologram recording. 4,653,857, 3-31-87, Cl. 350-320.000.
Crossland, William A.; and Ayliffe, Peter J., to International Standard Electric Corporation. Ferro-electric liquid crystal display with steady state voltage on front electrode. 4,655,550, 4-7-87, Cl. 350-332.000.
Crossland, William A.; Walker, Christopher J. J.; and Davey, Anthony B., to Standard Telephones and Cables Public Limited Company. Laser addressed smectic displays. 4,701,029, 10-20-87, Cl. 350-351.000.
Crosslen, Louis J., to Frank Mayer & Associates. Puncture sealant demonstrator for tires. 4,652,243, 3-24-87, Cl. 434-376.000.
Crosslen, Louis J., to Frank Mayer & Associates. Modular expandable merchandise display rack. 4,673,090, 6-16-87, Cl. 211-183.000.
Crosslen, Louis J., to Frank Mayer & Associates. Security device for point-of-sale display rack and primarily store shelving. 4,682,825, 7-28-87, Cl. 312-42.000.
Crossley, David W.: *See—*
  Simmel, Thomas L.; Crossley, David W.; and Morehouse, Mark N., 4,695,267, Cl. 446-462.000.
Crossley, Edward A., Jr.; Haynes, David P.; Jones, Howard C.; and Jones, Irby W., to United States of America, National Aeronautics and Space Administration. Adjustable mount for electro-optic transducers in an evacuated cryogenic system. 4,672,202, 6-9-87, Cl. 250-238.000.
Crossley, Ian; Donoghue, Daniel; Mittleman, Steven; and Nash, Seth, to Alpha Industries, Inc. Ring hybrid mixing. 4,637,068, 1-13-87, Cl. 455-327.000.
Crossley, Ian; Donoghue, Daniel; Goldwasser, Robert; Miley, John; and Spooner, Frank, to Aerojet-Alpha; and Alpha Industries, Inc. Controlling oscillator. 4,644,296, 2-17-87, Cl. 331-1.00R.
Crossley, Leonard S. Cup protecting mixer. 4,702,611, 10-27-87, Cl. 366-325.000.
Crossley, P. Anthony: *See—*
  Lehrer, William I.; and Crossley, P. Anthony, 4,704,342, Cl. 430-5.000.
Crossley, Robert B. Multifunctional behavioral modification device for snoring, bruxism, and apnea. 4,715,367, 12-29-87, Cl. 128-136.000.
Crossley, Roger; and Meade, Peter J., to John Wyeth & Brother Ltd. Anti-ulcer and anti-hypersecretion dibenzoimidazothiazepine derivatives, compositions, and method of use therefor. 4,666,900, 5-19-87, Cl. 514-211.000.
Crossley, Roger, to John Wyeth & Brother Limited. N-pyridyl-substituted pyridine-2-carboxamide-1-oxides. 4,678,794, 7-7-87, Cl. 514-332.000.
Crossley, Roger, to John Wyeth & Brother Limited. Imidazoquinolines containing other heterocyclic groups, useful as anti-ulcer or anti-secretory agents. 4,703,044, 10-27-87, Cl. 514-292.000.
Crossley, Thomas J.: *See—*
  Wilhelm, John J.; Burack, Robert D.; Kloreyzk, Fredrick J.; and Crossley, Thomas J., 4,671,326, Cl. 138-93.000.
Crossman, James A.: *See—*
  Edwards, Douglas C.; and Crossman, James A., 4,659,754, Cl. 523-214.000.
Crossman, Richard L.: *See—*
  Berger, Robert E.; Crossman, Richard L.; and Conley, William F., 4,682,640, Cl. 152-405.000.
Crossman, William W., Jr.: *See—*
  Ferguson, Robert W.; Andors, Derik K.; and Crossman, William W., Jr., 4,646,712, Cl. 126-79.000.
Crosson, Peter; Sanchez, Terry; Gray, Kevin; and Goldstein, Samuel M., to Mattel, Inc. Toy car launcher with expandable scissors members. 4,690,658, 9-1-87, Cl. 446-429.000.
Crosthwaite, Robert P., to Ducan Steel Benders Ltd. Sofa bed. 4,696,069, 9-29-87, Cl. 5-37.00R.
Croston, Robert B.: *See—*
  Silverman, Eugene B.; Simmons, Richard K.; and Croston, Robert B., 4,709,265, Cl. 358-108.000.
Croswell, William F.: *See—*
  Boan, Bobby J.; and Croswell, William F., 4,700,195, Cl. 343-786.000.
Croteau, Francis R., to Baird Corporation. Digital image frame processor. 4,694,398, -15-87, Cl. 364-414.000.
Croteau, Michael G.: *See—*
  Martin, James M.; Brockett, William S.; Selleck, Ronald R.; and Croteau, Michael G., 4,639,138, Cl. 356-350.000.
Crotet, Eric: *See—*
  Chaumeau, Alain; Crotet, Eric; Kerdraon, Alain; and Ragonnet, Jean-Paul, 4,714,022, Cl. 102-476.000.
Crothers, Carlyle W.: *See—*
  Van Den Brekel, Jacques; Crothers, Carlyle W.; and Squires, Dale B., 4,645,114, Cl. 223-56.300.
Crothers, Donald M.: *See—*
  Dattagupta, Nanibhushan; and Crothers, Donald M., 4,713,326, Cl. 435-6.000.
Crothers Limited: *See—*
  Hess, Markus J., 4,636,133, Cl. 414-715.000.
Crothers, Steven D., to Owens-Corning Fiberglas Corporation. Splicing means for faced insulation batts. 4,637,188, 1-20-87, Cl. 52-404.000.
Crotti, Aldo, to Italtractor Meccanica ITM S.p.A. Bearing seal for endless track rollers. 4,640,559, 2-3-87, Cl. 305-11.000.

Crotti, Aldo; and Berselli, Orlando, to Italtractor Meccanica ITM S.p.A. Annular front-sealing gasket assembly. 4,688,805, 8-25-87, Cl. 277-84.000.

Crotti, Aldo, to Societa' Italtractor Meccanica Itm S.p.A. Lubricated roller for the tracks of crawler vehicles, in particular, a top roller with fixed overhung shaft and rolling bearings. 4,695,102, 9-22-87, Cl. 305-11.000.

Crotti, Alessandro; and Luc, Roberto R., to Ing. C. Olivetti & C., S.p.A. Ink jet print head and printer. 4,703,332, 10-27-87, Cl. 346-140.00R.

Crotty, C. Alan: *See—*

Geisel, Donald J.; Crotty, C. Alan; and Pilarski, Richard J., 4,699,575, Cl. 418-104.000.

Crotwell, Gerald W., to Cameron Iron Works, Inc. Marine wellhead structure. 4,651,830, 3-24-87, Cl. 166-338.000.

Crouch, Bill W.; Sauer, William F.; and Zylka, Kenneth R., to Meridian Industries, Inc. Method and apparatus for producing liquid impregnated fabric wipes. 4,649,695, 3-17-87, Cl. 53-431.000.

Crouch, Earl T.: *See—*

Curry, Herbert L.; and Crouch, Earl T., 4,683,169, Cl. 428-337.000.

Crouch, Paul E.; Nahas, Joseph J.; and Ng, Howard, to AT&T Technologies Inc., AT&T Bell Laboratories. Fraud prevention in an electronic coin telephone set. 4,674,114, 6-16-87, Cl. 379-154.000.

Crouch, Philip C., to Ainsworth Nominees Pty, Limited. Odds indicator for poker machines. 4,676,506, 6-30-87, Cl. 273-143.00R.

Croucher, Melvin D.: *See—*

Hair, Michael L.; Lok, Kar P.; Ober, Christopher K.; Croucher, Melvin D.; and Wong, Raymond W., 4,680,332, Cl. 524-377.000.

Croudace, Michael C.; Wusz, Timothy; and Brass, Stephen G., to Union Oil Company of California. Fuel composition and method for control of octane requirement increase. 4,699,629, 10-13-87, Cl. 44-79.000.

Croudace, Michael C.; Mendelson, Leah T.; and Holstedt, Richard A., to Union Oil Company of California. Trisubstituted-borate compounds. 4,701,274, 10-20-87, Cl. 252-46.300.

Croudace, Michael C.: *See—*

Jessup, Peter J.; Brass, Stephen G.; and Croudace, Michael C., 4,647,292, Cl. 44-66.000.

Landry, James F.; Croudace, Michael C.; On, Harry P., Jr.; and Shen, Sidney Y., 4,655,949, Cl. 252-51.50R.

Crounse, Kim H.; and Archibald, James B., to General Electric Company. Coolant gas flow separator baffle for a dynamoelectric machine. 4,682,064, 7-21-87, Cl. 310-61.000.

Crounse, Nathan N.; and Heitz, James R., to Sterling Drug Inc. Phototoxic insecticidal compositions and method of use thereof. 4,647,578, 3-3-87, Cl. 514-454.000.

Crouse, Edward B.: *See—*

Bankit, Paul; and Crouse, Edward B., 4,668,515, Cl. 424-164.000.

Crouse-Hinds Company: *See—*

Smith, Donald C.; Snow, Richard F.; and Pauli, George B., 4,703,403, Cl. 362-268.000.

Crouse, Josepn T.: *See—*

McCartney, Charles P.; Susko, Edward W.; and Crouse, Joseph T., 4,673,625, Cl. 429-187.000.

Crouse, Richard D.: *See—*

Smith, Richard D.; Oliver, Michael S.; Crouse, Richard D.; and Chia, Weng-Kwen R., 4,687,067, Cl. 175-340.000.

Crouse, Stanley G.: *See—*

Pasquarette, Ernest R., Jr.; Crouse, Stanley G., Campanella, Ermen; and Boiti, Franco, 4,679,653, Cl. 182-2.000.

Crouse, William G.; and Irvin, David R., to International Business Machines Corporation. Adaptive sub-band echo suppressor. 4,644,108, 2-17-87, Cl. 379-406.000.

Crout, Charles J.; Frame, Charles W.; and Harris, Ronald N., to Chambersburg Engineering Company. Adaptive, self-regulating forging hammer control system. 4,653,300, 3-31-87, Cl. 72-8.000.

Crout, Charles J.; Frame, Charles W.; and Harris, Ronald N., to Chambersburg Engineering Company. Adaptive, self-regulating forging hammer control method. 4,693,101, 9-15-87, Cl. 72-20.000.

Crout, Charles J.; Frame, Charles W.; and Harris, Ronald N., to Chambersburg Engineering Company. Method of self-regulating consistency of applied energy in a forging hammer employing input differential. 4,712,404, 12-15-87, Cl. 72-8.000.

Crout, Charles J.; Frame, Charles W.; and Harris, Ronald N., to Chambersburg Engineering Company. Method of self-regulation of output energy of forging hammers using input sensed peak of lifting fluid pressure for correction. 4,712,405, 12-15-87, Cl. 72-19.000.

Crout, Charles J.; Frame, Charles W.; and Harris, Ronald N., to Chambersburg Engineering Company. Method of determining stroke length of a pneumatic forging hammer using sensed peak pressure. 4,712,415, 12-15-87, Cl. 72-8.000.

Crouzet: *See—*

Fima, Henri; and Janiaud, Denis, 4,710,668, Cl. 310-323.000.

Morille, Robert; and Saroul, Jacques, 4,642,560, Cl. 324-73.0PC.

Pitrat, Alain; and Truchet, Bernard, 4,684,770, Cl. 200-67.00R.

Crouzet, Pierre, to BP Chemicals Limited. Treatment of catalyst particles. 4,714,553, 12-22-87, Cl. 210-533.000.

Crouzet S.p.A.: *See—*

Thepault, Claude, 4,639,059, Cl. 339-17.00F.

Crow, Robert W. Facial protector for batting helmet. 4,677,694, 7-7-87, Cl. 2-9.000.

Crow, Terry K. Hangar for fiberglass ducts. 4,706,922, 11-17-87, Cl. 248-546.000

Crow, William D.: *See—*

Peachee, C. Theodore; and Crow, William D., 4,670,631, Cl. 200-80.00R.

Crowder, Kenneth L., to Northrop Corporation. Laser tracker designator. 4,650,325, 3-17-87, Cl. 356-152.000.

Crowe, Alan S., to Ferranti plc. Testing the transfer function linearity of analogue input circuits. 4,667,296, 5-19-87, Cl. 364-553.000.

Crowe, Curtis W., to Dowell Schlumberger Incorporated. Method of preventing precipitation of ferrous sulfide and sulfur during acidizing. 4,633,949, 1-6-87, Cl. 166-279.000.

Crowe, Dale A.: *See—*

Walker, Robert L.; Crowe, Dale A.; and Lund, Paul D., 4,649,369, Cl. 340-52.00R.

Crowe, David F.; Tanabe, Masato; and Peters, Richard, to SRI International. 9α, 11β-substituted and 11β-substituted estranes. 4,705,783, 11-10-87, Cl. 514-180.000.

Crowe, Jesse R.; Deve, Derek B.; and Shih, Kwang K., to International Business Machines Corporation. Surface layer to reduce contact resistance in resistive printing ribbon. 4,699,533 10-13-87, Cl. 400-241.100.

Crowe, Lawrence E., to Sundstrand Corporation. Integrated evaporator and thermal expansion valve assembly. 4,712,384, 12-15-87, Cl. 62-225.000.

Crowe, Scott D. Settee seating unit and settee-cluster frames therefor. 4,653,803, 3-31-87, Cl. 297-158.000.

Crowe, Stephen O.; Harper, Jeffrey D.; and Wilson, Woody B., to International Paper Company. Octagonal tray with vertical stacking posts and stabilized corner panels. 4,676,429, 6-30-87, Cl. 229-109.000.

Crowe, Wayne D., to Ferranti Subsea Systems, Ltd. Combined power and control signal transmission system. 4,639,714, 1-27-87, Cl. 340-310.00R.

Crowe, Wayne D., to Ferranti Subsea Systems, Ltd. Multiple-mode electrical power and communications interface. 4,641,126, 2-3-87, Cl. 340-310.00A.

Crowe, William E., to Hughes Tool Company. Rotary power slips. 4,681,193, 7-21-87, Cl. 188-67.000.

Crowell Corporation, The: *See—*

Raszewski, Lewis R., 4,693,056, Cl. 53-450.000.

Raszewski, Lewis R., 4,698,254, Cl. 428-215.000.

Crowell, Douglas H.: *See—*

Simmonds, Robert C., Jr.; Crowell, Douglas H.; and Martin, John F., 4,681,650, Cl. 156-378.000.

Crowell, John M.: *See—*

Wolf, Michael A.; and Crowell, John M., 4,658,222, Cl. 331-78.000

Crowell, Jonathan C.; and Swailes, John T., to Kollmorgen Technologies Corporation. Shielded interconnection boards. 4,646,436, 3-3-87, Cl. 29-850.000.

Crowell, Jonathan C.: *See—*

Swiggett, Brian E.; Morino, Ronald; Keogh, Raymond J.; and Crowell, Jonathan C., 4,693,778, Cl. 156-361.000.

Swiggett, Brian E.; Morino, Ronald; Keogh, Raymond J.; Crowell, Jonathan C.; Czenczy, George; Schoenberg, Andrew J.; and Friedrich, Marju L., 4,711,026, Cl. 29-850.000.

Crowell, Robert L.: *See—*

Magruder, Thomas A.; and Crowell, Robert L., 4,682,557, C 114-39.000.

Crowell, William H., to Cool Water Corporation, The. Pet receptacl 4,691,664, 9-8-87, Cl. 119-61.000.

Crowley, Charles H. Light fixture mounting pedestal and method installing same. 4,635,168, 1-6-87, Cl. 562-147.000.

Crowley, Dennis E.: *See—*

Nelson, Catherine E.; Crowley, Dennis E.; and Weatherfor Wayne M., 4,701,329, Cl. 426-74.000.

Crowley, George C.: *See—*

Rieckman, Roger A.; Hemrich, William R.; Jursich, Donald and Crowley, George C., 4,683,369, Cl. 219-364.000.

Crowley, Harris L., Jr., to Union Carbide Corporation. Unencapsulat chip capacitor. 4,639,836, 1-27-87, Cl. 361-433.000.

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Crowley, Joseph R. Portable refillable inflator. 4,653,550, 3-31-87, 141-18.000.

Crowley, Kevin J.; and Gaffin, Michael A. Knock-down bo 4,662,297, 5-5-87, Cl. 114-61.000.

Crowley, Michael S., to Amoco Corporation. Refractory anch 4,680,908, 7-21-87, Cl. 52-378.000.

Crowley, Patrick J.: *See—*

Noon, Robert A.; Crowley, Patrick J.; and Worthington, Diana 4,634,466, Cl. 71-92.000.

Worthington, Paul A.; Crowley, Patrick J.; and Gravestock, chael B., 4,655,820, Cl. 71-92.000.

Crown City Plating Co.: *See—*

Coombes, Robert L., Jr.; Owen, Merrill J.; Colwell, Terance and Walker, Donald E., 4,714,535, Cl. 204-297.00W.

Crown Cork & Seal Canada Inc.: *See—*

Jenkins, John B.; Scott, John D.; and Simon, Alois, 4,667,506, 73-45.200.

Crown Creative Industries: *See—*

Payne, William J., 4,686,613, Cl. 362-413.000.

Crown Creative Industries, Inc.: *See—*

Arbetter, Michael, 4,650,102, Cl. 223-28.000.

Crown International, Inc.: *See—*

Bartlett, Bruce, 4,694,499, Cl. 381-155.000.

Stanley, Gerald R., 4,644,288, Cl. 330-2.000.

Crown Iron Works Company: *See—*

Anderson, George E., 4,635,380, Cl. 34-27.000.

Crown, Marlin D.: *See—*

Johnston, James R.; and Crown, Marlin D., 4,643,469, 292-66.000.

Crown Obrist AG: *See—*
Obrist, Albert; Bartl, Franz T.; and Geisinger, Klaus, 4,664,279, Cl. 215-252.000.

Crown Point Industries, Inc.: *See—*
Gunther, Albert W., Jr.; Gunther, Albert W., Sr.; and Volion, Daniel J., 4,652,177, Cl. 405-196.000.

Crown Screw Corporation: *See—*
Sugiyama, Ichirou, 4,659,246, Cl. 403-408.100.

Crown Zellerbach Corporation: *See—*
Fowells, R. William, 4,644,045, Cl. 526-348.000.
Matovich, Edwin; and Spannuth, Robert J., 4,637,858, Cl. 162-30.100.
Reba, Imants; and Pollock, Rodney E., 4,643,775, Cl. 134-15.000.

Crownover, Donald J., to Schlumberger Technology Corporation. Method and apparatus for the continuous analysis of drilling mud. 4,635,735, 1-13-87, Cl. 175-48.000.

Crownshaw, John C.: *See—*
Gunn, Duncan A.; Crownshaw, John C.; Davis, Arthur A.; and Colegate, Gilbert W. P., 4,678,270, Cl. 350-96.200.

Crowson, Leslie L., Jr.: *See—*
Callens, E. Eugene, Jr.; Crowson, Leslie L., Jr.; Kobs, Robert P.; Tull, Herbert G., III; and Tahtouh, Joseph F., 4,706,360, Cl. 29-407.000.

Crowter, Ronald H.: *See—*
Gregan, David J.; and Crowter, Ronald H., 4,690,099, Cl. 119-14.410.

Crowther, Duane S., to Horizon Publishers & Distributors, Inc. Multiple book storage and carrying case. 4,652,034, 3-24-87, Cl. 294-138.000.

Crowther, Gerald O., and Mason, Arthur G., to U.S. Philips Corporation; and Independent Broadcasting Authority. Transmission system. 4,636,854, 1-13-87, Cl. 358-123.000.

Crowther, Gerald O., to U.S. Philips Corporation. Television transmission system. 4,651,205, 3-17-87, Cl. 380-14.000.

Croxall, John, to Couture Marketing Limited. Method of printing hosiery. 4,635,551, 1-13-87, Cl. 101-470.000.

Croyle, Gene F., to Levi Strauss & Co. System for alignment and feeding cooperating fabric parts in sewing operations. 4,658,144, 4-14-87, Cl. 250-548.000.

Crozat, Georges: *See—*
Payre, Didier; Crozat, Georges, and Spinner, Bernard, 4,682,476, Cl. 62-480.000.

Crozier, David W.: *See—*
Corbin, Susan E.; Brown, Cal R.; Crozier, David W.; and Williams, Peter C., 4,685,488, Cl. 137-328.000.

Crozier, James R., Jr.: *See—*
McAliley, J. Eugene; Daumit, Gene P.; Ethridge, Frederick A.; and Crozier, James R., Jr., 4,714,642, Cl. 428-113.000.
McAliley, John E., and Crozier, James R., Jr., 4,633,550, Cl. 28-272.000.
McAliley, John E.; and Crozier, James R., Jr., 4,675,957, Cl. 28-272.000.

Crozier, John H.: *See—*
Petritis, Demetris; Lundin, Robert S.; and Crozier, John H., 4,647,861, Cl. 328-26.000.

Cruce, Evie C. Apparatus for segmenting edible peels of fruit and the like. 4,697,345, 10-6-87, Cl. 30-315.000.

Crucible Chemical Company: *See—*
Wilson, Robert B.; Pomeroy, William F.; and Sovey, Louis T., Jr., 4,661,117, Cl. 8-506.000.
Wilson, Robert B., and Pomeroy, William F., 4,708,719, Cl. 8-580.000.

Crucible Materials Corporation: *See—*
Brosius, Karl S., Justus, Scott B.; and Salvatora, David A., 4,640,815, Cl. 419-8.000.
Haswell, Walter T., Jr.; Brosius, Karl S.; Justus, Scott B.; and Salvatora, David A., 4,640,814, Cl. 419-8.000.

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Bredenkamp, Gordon L., 4,684,879, Cl. 323-289.000.
Loveday, Brian K.; Tumily, James A. J.; and Douglas, William D., 4,666,212, Cl. 299-5.000.

Crudele, Lester M.: *See—*
Zolnowsky, John; Crudele, Lester M.; and Spak, Michael E., 4,710,866, Cl. 364-200.000.

Crueger, Wulf: *See—*
Egerer, Peter; Crueger, Wulf; and Golker, Christian, 4,681,843, Cl. 435-41.000.

Cruess, Michael W.: *See—*
Tietjen, Donald L.; and Cruess, Michael W., 4,683,534, Cl. 364-200.000.

Cruise, Billy J. High-speed bow limbs. 4,712,533, 12-15-87, Cl. 124-23.00R.

Cruise, Robert R., to Behlen Mfg. Co. Method and apparatus for installing board-like insulating panels in a standing seam roof construction. 4,642,961, 2-17-87, Cl. 52-408.000.

Cruise, Thomas E. Process of producing an insulated concrete masonry unit with low density heat bridges. 4,670,204, 6-2-87, Cl. 264-42.000.

Crull, Russell L., to Textron Inc. Undercut sealing threaded fastener. 4,701,088, 10-20-87, Cl. 411-369.000.

Crum, Donald L. Electric fence holder. 4,692,567, 9-8-87, Cl. 174-158.00F.

Crum, Michael A., to Leggett & Platt, Incorporated. Away-from-the-wall recliner chair. 4,662,673, 5-5-87, Cl. 297-68.000.

Crumbach, Richard; Gillner, Manfred; Schilde, Heinz J.; and Tiedemann, Helmut to Saint-Gobain Vitrage. Method for covering a lens blank with a protective plastic film. 4,707,208, 11-17-87, Cl. 156-285.000.

Crumbaker, Todd E.: *See—*
Clark, Benton C.; and Crumbaker, Todd E., 4,651,012, Cl. 250-505.100.

Crumby, John T., to Crumby, John T. Mortar application template. 4,709,526, 12-1-87, Cl. 52-749.000.

Crump, Druce K.; Simon, Jaime; and Wilson, David A., to Dow Chemical Company, The. Bis(aminoalkyl)piperazine derivatives and their use as metal ion control agents. 4,680,396, 7-14-87, Cl. 544-337.000.

Crump, E. Eugene: *See—*
Thigpen, Ben B.; Crump, E. Eugene; Johnston, Otis A.; McPeek, Nathaniel K.; and McNeel, William O., 4,637,000, Cl. 367-172.000.

Crump, Herschel W. Intruder detection and deterrent system. 4,642,612, 2-10-87, Cl. 340-541.000.

Crumrine, Robert E.: *See—*
Hubble, Fred F., III; Bullock, Randolph H.; Cheung, Li-Fung; Crumrine, Robert E.; Martin, James P.; White, Peter P.; and Zomorrodi, Mehrdad, 4,670,647, Cl. 250-214.0AG.

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Crus, Richard A.; Haderle, Donald J.; and Herron, Howard W., to International Business Machines Corporation. Method for managing lock escalation in a multiprocessing, multiprogramming environment. 4,716,528, 12-29-87, Cl. 364-300.000.

Crush, John F.: *See—*
Torre, Frank M.; Crush, John F.; and Masak, Raymond J., 4,706,261, Cl. 375-27.000.

Crusi, Suzanne B.: *See—*
Klinvex, Daniel E.; Crusi, Suzanne B.; Kepes, William E.; and Vano, Joseph A., 4,642,215, Cl. 376-249.000.

Crutchfield, Mark K., to Hydril Company. Ram blowout preventer apparatus. 4,647,002, 3-3-87, Cl. 251-1.300.

Crute, Billy G., to Stant Inc. Breakaway gas gap. 4,678,097, 7-7-87, Cl. 220-288.000.

Cruz, Edward: *See—*
Whittenburg, Stephen L.; Morris, David S.; Edmonds, Albert V.; McGaw, John; McCormick, David D.; Bartlett, William L.; Cruz, Edward; and Harding, David, 4,657,193, Cl. 241-282.100.

Cruz, Emirto T., to United States of America, Air Force. Micro-optical lens holder. 4,676,599, 6-30-87, Cl. 350-252.000.

Cruz, Graham J. System for raising and lowering portable cargo containers. 4,708,319, 11-24-87, Cl. 254-45.000.

Cruz, Michael S.; and Vaughter, Harmon P., to Zenith Electronics Corporation. Tunable notch filter for image frequency and conducted local oscillator leakage rejection. 4,662,001, 4-28-87, Cl. 455-340.000.

Cruz, Michael S.; and Vaughter, Harmon P., to Zenith Electronics Corporation. Surface mounted component UHF oscillator. 4,677,396, 6-30-87, Cl. 331-117.00R.

Cruz, Richard. Vehicle door protector. 4,708,380, 11-24-87, Cl. 293-128.000.

Cruz-Uribe, Antonio S., to Pitney Bowes Inc. Notched piezo-electric transducer for an ink jet device. 4,641,153, 2-3-87, Cl. 346-140.00R.

Cruz-Uribe, Antonio S.; Hubbard, David W.; and Raman, Gopalan, to Pitney Bowes Inc. Impulse ink jet print head and method of making same. 4,680,595, 7-14-87, Cl. 346-140.00R.

Cruz-Uribe, Antonio S., to Pitney Bowes Inc. External manifold for ink jet array. 4,695,854, 9-22-87, Cl. 346-140.00R.

Cruz-Uribe, Antonio S.: *See—*
Sansone, Ronald P.; Cruz-Uribe, Antonio S.; and Chang, Mike S. H., 4,673,303, Cl. 400-126.000.

CRX Medical, Inc.: *See—*
Krall, Robert E., 4,713,235, Cl. 424-5.000.

Cryder, John H.: *See—*
Chlumecky, Wayne E.; Cryder, John H.; Colombo, Robert A.; and Spenk, Robert E., 4,660,895, Cl. 303-75.000.

Cryderman, Glenn R.: *See—*
Hawes, Timothy R.; Antekeier, Steven A.; Cryderman, Glenn R.; Munger, David I.; Gould, Leonard A.; and Eklund, Louis E., Jr., 4,706,980, Cl. 280-154.000.

Cryo-Genics, Inc.: *See—*
Borenstein, Charles, 4,642,893, Cl. 30-90.000.

Cryoblast, Inc.: *See—*
Moore, David E., 4,641,786, Cl. 239-590.000.

Cryogas GmbH: *See—*
Kober, Drago; and Martin, Erich, 4,669,493, Cl. 137-73.000.

Cryolect Scientific Corporation: *See—*
Reedy, Gerald T., 4,688,936, Cl. 356-36.000.

Crystal, Anthony A.: *See—*
Rummel, Raymond W.; and Crystal, Anthony A., 4,680,948, Cl. 68-3.00R.

Crystal, Richard G., to Xerox Corporation. Printwheel for use in a serial printer. 4,673,305, 6-16-87, Cl. 400-460.000.

Crystal, Richard G.; and Gabor, Andrew, to Xerox Corporation. Impact printer with application of oblique print force. 4,686,900, 8-18-87, Cl. 101-93.480.

Crystal, Richard G.: *See—*
Gabor, Andrew; Dunfield, John C.; Bowers, George W., Jr.; and Crystal, Richard G., 4,678,355, Cl. 400-389.000.

Crystal Semiconductor Corporation: *See—*
Welland, David R.; and Callahan, Michael J., 4,709,225, Cl. 340-347.0CC.

- Crystal Systems, Inc.: *See—*
  - Schmid, Frederick; Khattak, Chandra P.; and Smith, Maynard B., 4,646,710, Cl. 125-16.00R.
- Crystal Technologies Corporation: *See—*
  - Yaniv, Meir, 4,634,146, Cl. 281-15.00R.
- Crystal Technology, Inc.: *See—*
  - Skeie, Halvor, 4,661,738, Cl. 310-313.00D.
- Crystaloid Electronics Company: *See—*
  - Ferrato, Joseph P., 4,659,499, Cl. 252-299.100.
  - Richardson, Kenneth J., 4,660,937, Cl. 350-349.000.
- Csak, Bela, to Budapesti Muszaki Egyetem. System for reducing the seismic load of tall buildings. 4,638,609, 1-27-87, Cl. 52-167.000.
- Csak, Bela, to Budapesti Muszaki Egyetem. Progressive shock absorption system for reducing the seismic load of buildings. 4,651,481, 3-24-87, Cl. 52-167.000.
- Csak, Jozsef: *See—*
  - Hideg, Kalman; Hankovszky, Olga H.; Frank, Laszlo ; Bodi, Ilona; and Csak, Jozsef, 4,703,056, Cl. 514-414.000.
- Csanady, Michael, Jr., to Westinghouse Electric Corp. Retrofit friction-hydrostatic emergency lubrication system for a large rotating shaft. 4,709,785, 12-1-87, Cl. 184-6.400.
- Csapo, Erich: *See—*
  - Prunbauer, Kurt; and Csapo, Erich, 4,665,726, Cl. 70-276.000.
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  - Prunbauer, Kurt; and Csapo, Erich, 4,686,841, Cl. 70-276.000.
- Csapody, Miklos, to Tungsram Rt. High pressure sodium vapor lamp with improved color reproduction index. 4,678,958, 7-7-87, Cl. 313-15.000.
- Csaszar, Ernest J., to General Kap (P.R.) Corp. Non-refillable fitment. 4,660,744, 4-28-87, Cl. 222-147.000.
- Csaszar, Ernest J., to General Kap Corporation. Container with double bead track system and frangible closure. 4,669,623, 6-2-87, Cl. 215-252.000.
- Csatlos, Imre: *See—*
  - Balint, Sandor; Benczik nee Pasztor, Judit; Fodor, Jozsef; Horvath, Andras; Tomordi, Elemer; Soptei, Csaba; Karsai, Jozsef; Sebestyen, Endre; Gaal, Sandor; Gardi, Ivan; Kiss, Gyorgy; Papp, Andrass; and Csatlos, Imre, 4,668,274, Cl. 71-86.000.
- Cseh, Edomer G., to Colgate-Palmolive Company. Shampoo. 4,676,978, 6-30-87, Cl. 424-70.000.
- Cseh, Georg; and Lienhard, Paul, to Ciba-Geigy Corporation. Process for coloring high-molecular organic material, and novel metal complexes of oxime(s) of o-hydroxy benzaldehyde(s) and ketone(s). 4,639,477, 1-27-87, Cl. 524-83.000.
- Cseh, Georg; and Lienhard, Paul, to Ciba-Geigy Corporation. Polymer composition pigmented with copper or nickel complexes of ligands containing a semicarbazone moiety. 4,670,486, 6-2-87, Cl. 524-93.000.
- Cseh, Otto: *See—*
  - Balazs, Janos; Bocskor, Adam; Cseh, Otto; and Iring, Rezso, 4,641,607, Cl. 122-360.000.
- CSELT-Centro Studi e Laboratori Telecomunicazioni S.p.A: *See—*
  - Bruno, Carlo M.; Panarotto, Gianfranco; and Tofanelli, Adler, 4,686,703, Cl. [illegible]79-410.000.
  - Coppa, Gianni; and Di Vita, Pietro, 4,664,516, Cl. 356-73.100.
  - Dal Degan, Neviano; and Rusina . Fulvio, 4,688,224, Cl. 371-31.000.
  - Roba, Giacomo, 4,659,354, Cl. 65-3.120.
  - Roba, Giacomo, 4,702,759, Cl. 65-13.000.
- CSELT-Centro Studi e Laboratori Telecomunicazioni S.p.A.: *See—*
  - Accatino, Luciano; and Bertin, Giorgio, 4,652,836, Cl. 331-96.000.
  - Appiano, Silvano; Destefanis, Paolo; and Poggio, Cesare, 4,639,861, Cl. 364-200.000.
  - Arduini, Carlo; Barboni, Renato; Castellani, Antonio; Ponzi, Ugo; Bielli, Paolo; and Contu, Salvatore, 4,701,765, Cl. 343-897.000.
  - Capizzi, Giuseppe N.; Cianci, Cesario; and Melgara, Marcello, 4,709,340, Cl. 364-513.500.
  - Cisternino, Francesco, 4,676,597, Cl. 350-168.000.
  - Cocito, Giuseppe, 4,711,587, Cl. 374-16.000.
  - Coppa, Gianni; and Di Vita, Pietro, 4,657,388, Cl. 356-73.100.
  - Coppa, Gianni; and Di Vita, Pietro, 4,662,744, Cl. 356-73.100.
  - Di Vita, Pietro; and Potenza, Marcello, 4,703,488, Cl. 372-44.000.
  - Fabbri, Bruno, 4,706,014, Cl. 324-61.00P.
  - Fausone, Alfredo; and Moncalvo, Agostino, 4,716,587, Cl. 380-10.000.
  - Gagliardi, Fabrizio; Lambarelli, Livio; Panarotto, Gianfranco; Roffinella, Daniele; and Sposini, Maurizio, 4,696,001, Cl. 370-88.000.
  - Gandini, Marco; and Torielli, Alessandro, 4,669,093, Cl. 375-25.000.
  - Giorgetta, Valerio; Poletta, Vanni; Sartori, Mario; and Siligoni, Marco, 4,673,830, Cl. 307-297.000.
  - Grego, Giorgio, 4,636,032, Cl. 350-96.200.
  - Grego, Giorgio, 4,669,829, Cl. 350-355.000.
  - Lambarelli, Livio; Roffinella, Daniele; and Sposini, Maurizio, 4,663,758, Cl. 370-94.000.
  - Parisi, Giuseppe, 4,659,350, Cl. 55-503.000.
  - Roba, Giacomo, 4,657,575, Cl. 65-3.120.
  - Roba, Giacomo, 4,659,353, Cl. 65-3.120.
  - Roba, Giacomo; and Modone, Eros, 4,711,652, Cl. 65-18.200.
  - Salerno, Franco; and Sartori, Mario, 4,654,578, Cl. 323-313.000.
- Cserhati nee Botka, Ilona: *See—*
  - Gorog nee Privitzer, Katalin; Bodnar, Laszlo ; Dudar, Erzsebet; Kocsis nee Bagi, Maria; Gaal, Sandor; Tasnadi, Marta; Egyhazi nee Csizmadia, Eva; Varga, Valeria M.; Kajati, Istvan; Kis, Gyorgy; Molnar, Janos; Toth, Bertalan; Cserhati nee Botka, Ilona; Kaptas, Tibor; and Csete, Sandor, 4,661,477, Cl. 514-76.000.
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- Cserhati, Tibor: *See—*
  - Matolcsy, Gyorgy; Gimesi, Antal; Pelejtei nee Bauer, Krisztina; Sztatisz, Janisz; Tombor nee Szotyori, Agota; Cserhati, Tibor; Gerlei nee Komaromy, Aniko ; Kardos nee Nikoletti, Mariann; Dukai, Jozsef; Sebok, Dezso; Soptei, Csaba; Nagy, Lajos; and Belai, Ivan, 4,672,112, Cl. 536-46.000.
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  - Nagy, Imre Z.; Emri, Zsuzsanna; Jancso, Sandor; Csernus, Istvan; and Balint, Janos, 4,661,618, Cl. 560-62.000.
- Cservak, Nancy R.; Fribley, Susan K.; Goth, George R.; and Takacs, Mark A., to International Business Machines Corporation. Planarization process for organic filling of deep trenches. 4,665,007, 5-12-87, Cl. 430-311.000.
- Csery, Huba; Czigany, Imre; Horvath, Zoltan; Kertesz, Ivan; Kroo, Norbert; and Schmidt, Gyorgy. Liquid cooled neodymium-phosphate glass-impulse laser particularly for medical applications. 4,644,550, 2-17-87, Cl. 372-40.000.
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- Csizer, Eva: *See—*
  - Kreidl, Janos; Turcsanyi, Peter; Aracs, Zsuzsanna; Stefko, Bela; Meszaros, Judit; Deutsch, Ida; Szilbereky, Jeno; Csizer, Eva; Vezer, Szilard; Bogsch, Erik; Bakos, Jozsef; Szotyori, Laszlo; and Heil, Balint, 4,710,323, Cl. 260-543.00R.
- CSL Group Inc., The: *See—*
  - Johnston, William H., 4,712,962, Cl. 414-144.000.
- Csongor, Desider G., to Northern Lights Trust of February 14, 1978. Modular mixing apparatus including interchangeable fluid processing means. 4,697,928, 10-6-87, Cl. 366-80.000.
- Csongor, Frank. Cartridge loading device. 4,706,402, 11-17-87, Cl. 42-87.000.
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  - Cashman, Joseph B., 4,655,829, Cl. 75-101.00R.
- CTB, Inc.: *See—*
  - Frush, Donald R., 4,691,897, Cl. 256-65.000.
  - Hoover, Donald R., 4,676,197, Cl. 119-52.0AF.
- CTBA Associates: *See—*
  - McKenna, William J.; Silvers, Kenneth W.; Nickerson, Rand B.; Welsh, Russell J.; Walker, Harold R.; Cullity, Joseph A.; and Stryzak, Bohdan, 4,658,290, Cl. 358-84.000.
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  - Wood, Edward T., 4,655,286, Cl. 166-285.000.
- C^3 E M Company Ltd.: *See—*
  - Ferreira, Leonidas, 4,701,797, Cl. 358-186.000.
- CTS Corporation: *See—*
  - Bloom, Terry R., 4,689,262, Cl. 428-201.000.
  - Gornick, Robert F.; and Zdanys, John, Jr., 4,654,522, Cl. 250-231.0SE.
  - Kuo, Charles C. Y., 4,639,391, Cl. 428-210.000.
  - Kuo, Charles C. Y., 4,655,965, Cl. 252-518.000.
  - Kuo, Charles C. Y., 4,698,265, Cl. 428-432.000.
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  - Nespor, John F.; Gornick, Robert F.; and Kwor, Richard Y., 4,703,557, Cl. 29-620.000.
  - Petridis, Petros; Newell, Darrel E.; and Hartman, Keneth D., 4,661,201, Cl. 156-628.000.
  - VanBenthuysen, John D.; Zdanys, John, Jr.; and Nold, Matthew D., 4,670,629, Cl. 200-5.00C.
  - Waldron, Mark A.; and Leung, Tommy Y., 4,691,342, Cl. 379-98.000.
- Cubbage, William: *See—*
  - Perdue, Terry A.; and Cubbage, William, 4,710,137, Cl. 439-457.000.
- Cubbison, Richard J., Jr., to AT&T Information Systems Inc. Voltage divider circuit. 4,649,468, 3-10-87, Cl. 363-62.000.
- Cubbison, Richard J., Jr., to AT&T Information Systems Inc. Ringing application circuit. 4,652,701, 3-24-87, Cl. 379-373.000.
- Cubbison, Richard J., Jr., to American Telephone and Telegraph Company; and AT&T Information Systems Inc. Dynamic impedance element for a battery feed circuit. 4,706,281, 11-10-87, Cl. 379-322.000.

Cubic Corporation: *See—*
  Wells, Leon W.; and Hauschild, Werner, 4,713,890, Cl. 33-366.000.

Cubic Western Data: *See—*
  Toth, John E.; and Hempfling, Ronald L., 4,648,327, Cl. 109-57.000.

Cubit, Harry T.; and Johnson, George C., to T. J. Cope, Inc. Hanger apparatus for electrical conduit and the like. 4,709,888, 12-1-87, Cl. 248-73.000.

Cuca, Robert C., to Norcliff Thayer Inc. Encapsulated antacid. 4,656,028, 4-7-87, Cl. 424-37.000.

Cucchi, Giovanni; and Cucchi, Pietro, to F.LLI Cucchi S.R.L. Equipment for loading bars to be machined on a device for presenting and feeding said bars to a machine tool. 4,639,180, 1-27-87, Cl. 414-224.000.

Cucchi, Giovanni; and Cucchi, Pietro, to Pietro Cucchi & C. S.r.L. Bar feeder for machine tools. 4,664,002, 5-12-87, Cl. 82-2.700.

Cucchi, Giovanni; and Cucchi, Pietro, to F. LLI Cucchi S.r.l. Control device for feeding metal bars for supplying an automatic multi-spindle lathe. 4,667,789, 5-26-87, Cl. 192-48.910.

Cucchi, Giovanni. Guide for use in the feeding of metal bars to a machine tool. 4,700,593, 10-20-87, Cl. 82-2.500.

Cucchi, Pietro: *See—*
  Cucchi, Giovanni; and Cucchi, Pietro, 4,639,180, Cl. 414-224.000.
  Cucchi, Giovanni; and Cucchi, Pietro, 4,664,002, Cl. 82-2.700.
  Cucchi, Giovanni; and Cucchi, Pietro, 4,667,789, Cl. 192-48.910.

Cucci, Gerald R.; and Peterson, Thomas P., to Rosemount Inc. Isolating mount for external vibration sensitive sensor. 4,681,293, 7-21-87, Cl. 248-603.000.

Cucci, Gerald R.: *See—*
  Brown, Gregory C.; and Cucci, Gerald R., 4,665,938, Cl. 137-85.000.

Cucco, Gian C.: *See—*
  Sem[illegible] Fikret; Guermandi, Romano; and Cucco, Gian C., 4,641,696, Cl. 152-209.00R.

Cucinella, Salvatore: *See—*
  Carbonaro, Antonio; Gordini, Silvano; and Cucinella, Salvatore, 4,710,553, Cl. 526-142.000.
  Dozzi, Giovanni; Della Fortuna, Giorgio; and Cucinella, Salvatore, 4,710,531, Cl. 524-239.000.

Cucinotta, Luigi; and Caracini, Pietro, to Automotive Products plc. Friction clutches. 4,662,497, 5-5-87, Cl. 192-70.280.

Cucinotta, Luigi; and Di Benedetto, Orazio, to Automotive Products plc. Clutch driven plate. 4,709,797, 12-1-87, Cl. 192-106.200.

Cucinotta, Luigi: *See—*
  Caracini, Pietro; and Cucinotta, Luigi, 4,684,006, Cl. 192-106.200.

Cucksey, Edward L.: *See—*
  LaManna, Richard J.; Hinton, James L.; and Cucksey, Edward L., 4,686,898, Cl. 101-18.000.

Cudaback, Roger L., to J. A. Baldwin Manufacturing Co. Drain valve. 4,708,171, 11-24-87, Cl. 137-588.000.

Cudahy, Michael J.; De La Huerga, Carlos; Arneson, Harold N.; Divers, R. Thomas; and Altman, Barry J., to Marquette Electronics, Inc. Patient monitoring system having transportable data module and display unit. 4,715,385, 12-29-87, Cl. 128-710.000.

Cuddihy, James W.: *See—*
  Harvey, John C.; and Cuddihy, James W., 4,694,490, Cl. 380-20.000.
  Harvey, John C.; and Cuddihy, James W., 4,704,725, Cl. 380-9.000.

Cue, Berkeley W., Jr.; and Moore, Bernard S., to Pfizer Inc. Processes and intermediates for sorbinil. 4,704,461, 11-3-87, Cl. 549-404.000.

Cuel, Jacques, to Beghin-Say S.A. Dehydration process for moist vegetables. 4,659,579, 4-21-87, Cl. 426-465.000.

Cuellar, Edward A.; and Gaylor, Verna F., to Standard Oil Company, The. Acid promoted electrocatalytic reduction of carbon dioxide by square planar transition metal complexes. 4,668,349, 5-26-87, Cl. 204-59.00R.

Cuellar, John P., Jr.: *See—*
  Johnston, Alan A.; and Cuellar, John P., Jr., 4,668,413, Cl. 252-56.00R.

Cuellar, Raul D.: *See—*
  Busta, Heinz H.; and Cuellar, Raul D., 4,685,996, Cl. 156-628.000.

Cuervo, Armando A. Method and apparatus for therapeutic motion and sound treatment of infants. 4,681,096, 7-21-87, Cl. 128-33.000.

Cues, Inc.: *See—*
  Martin, James R.; and Guthrie, Kenneth R., 4,651,558, Cl. 73-40.50R.

Cuesta, Eugenio M.; and Spector, George. Whistle kite. 4,634,085, 1-6-87, Cl. 244-153.00R.

Cuevas, Jess A.; and Blackshire, Robert D., to United States of America, Air Force. Controllable ejection seat catapult. 4,706,909, 11-17-87, Cl. 244-122.0AC.

Cuff, William A.; and Lefler, Jerrold P., to Digitext, Inc. Computerized printing system. 4,692,042, 9-8-87, Cl. 400-94.000.

Cuffiani, Illaro: *See—*
  Albizzati, Enrico; Pettenati, Enrico; Zucchini, Umberto; and Cuffiani, Illaro, 4,695,558, Cl. 502-123.000.

Cugley, Derwyn, to VSI Fasteners, Inc. Reusable container. 4,687,129, 8-18-87, Cl. 229-44.00R.

Cuhel, Leon L., to FMC Corporation. Hydraulic circuit for self-undecking crane. 4,662,527, 5-5-87, Cl. 212-180.000.

Cuiper, Glen H., to Hughes Tool Company. Internal nonrotating tie-back connector. 4,681,166, 7-21-87, Cl. 166-345.000.

Cuiper, Glen H., to Hughes Tool Company. External tie-back connector. 4,699,215, 10-13-87, Cl. 166-341.000.

Cuisia, Dionisio G.; and Hwa, Chih M., to W. R. Grace & Co. Method of inhibiting the deposition of scale in an aqueous system. 4,680,125, 7-14-87, Cl. 210-697.000.

Cuisinarts, Inc.: *See—*
  Sontheimer, Carl G., 4,647,727, Cl. 200-1.00R.
  Sontheimer, Carl G.; and Williams, James E., 4,702,162, Cl. 99-495.000.
  Stillman, Harold M., 4,657,332, Cl. 339-147.00R.
  Williams, James E., 4,634,061, Cl. 241-101.00R.
  Williams, James E., 4,645,886, Cl. 200-1.00R.
  Williams, James E., 4,688,478, Cl. 99-503.000.
  Williams, James E., 4,688,728, Cl. 241-101.100.

Cuisinarts Research & Development, Inc.: *See—*
  Williams, James E., 4,714,203, Cl. 241-36.000.

Cukier, Samuel; and Khan, Irshad A., to Domtar Inc. Base mix fabric softener. 4,654,152, 3-31-87, Cl. 252-8.800.

Cukon, Viktor. Golf club adjusting machine. 4,640,017, 2-3-87, Cl. 33-508.000.

Culbertson, Billy M.: *See—*
  Tiba, Omar; and Culbertson, Billy M., 4,699,970, Cl. 528-141.000.
  Tufts, Timothy A.; and Culbertson, Billy M., 4,652,620, Cl. 525-504.000.

Culbertson, Charles M., II: *See—*
  DeMatos, Henrique V.; Scheumann, Bernd K.; and Culbertson, Charles M., II, 4,675,790, Cl. 361-433.000.

Culbertson, Edwin C., to American Hoechst Corporation. Antistat coated films. 4,642,263, 2-10-87, Cl. 428-336.000.

Culbertson, Samuel W.; and Merritt, James S., to Binks Manufacturing Company. Rapidly cleanable atomizer. 4,643,357, 2-17-87, Cl. 239-112.000.

Culbertson, Timothy D.: *See—*
  McCormick, Peter E.; Edwards, Rick C.; Autry, Walter D., Jr.; Culbertson, Timothy D.; Goch, Jerome F.; and Linder, Marc S., 4,676,142, Cl. 92-130.00R.

Culbertson, Townley P.; Domagala, John M.; Mich, Thomas F.; and Nichols, Jeffrey B., to Warner-Lambert Company. Antibacterial agents. 4,638,067, 1-20-87, Cl. 546-15.000.

Culbertson, Townley P.; Domagala, John M.; Mich, Thomas F.; and Nichols, Jeffrey B., to Warner-Lambert Company. Antibacterial agents. 4,665,079, 5-12-87, Cl. 514-312.000.

Culbertson, W. Bruce: *See—*
  Sutton, Jimmy; Shearer, Wanda; Arkin, Karlie J.; Spoelstra, Jeffrey A.; Weiss, Steven M.; Ramsey, Sherry L.; Hurlbut, Kyle; Culbertson, W. Bruce; and Burns, Robert R., 4,649,499, Cl. 364-518.000.

Culgan, John M.; and Sherbeck, Leander A., to Du Pont de Nemours, E. I., and Company. Process for making an elastomeric yarn supply package. 4,646,667, 3-3-87, Cl. 112-262.100.

Culican, Edward F.; Pritzlaff, Philip E., Jr.; Schettler, Helmut; and Van Goor, Kenneth A., to International Business Machines Corporation. Speed up of up-going transition of TTL or DTL circuits under high capacitive load. 4,656,367, 4-7-87, Cl. 307-270.000.

Culkin, Joseph B., to Dorr-Oliver Incorporated. Method and apparatus for electrofiltration. 4,639,300, 1-27-87, Cl. 204-182.300.

Culkin, Joseph B., to Dorr-Oliver Incorporated. Method and apparatus for measuring the unsteady sedimentation potential of colloidal particles. 4,679,439, 7-14-87, Cl. 73-61.400.

Culkin, Joseph B.; and Koffler, Adam, to Dorr-Oliver Inc. Non ion selective membrane in an EAVF system. 4,689,134, 8-25-87, Cl. 204-296.000.

Culkin, Joseph B., to Dorr-Oliver Incorporated. Electrically augmented vacuum filtration apparatus for producing a dialyzed cake product. 4,693,802, 9-15-87, Cl. 204-182.400.

Cullen, Donald E., to United Technologies Corporation. Surface skimming bulk acoustic wave accelerometer. 4,676,104, 6-30-87, Cl. 73-516.00R.

Cullen, John C.; Cullen, Paul M.; and Cullen, Owen. Mock linking process and apparatus for joining two pieces of knitted fabric, and knitted edging trim for use therewith. 4,691,537, 9-8-87, Cl. 66-172.00R.

Cullen, John S.; Incorvia, Samuel A.; and Vogt, James A., to Multiform Desiccants, Inc. Apparatus for fabricating dual compartment powder cartridge. 4,642,973, 2-17-87, Cl. 53-546.000.

Cullen, Owen: *See—*
  Cullen, John C.; Cullen, Paul M.; and Cullen, Owen, 4,691,537, Cl. 66-172.00R.

Cullen, Paul M.: *See—*
  Cullen, John C.; Cullen, Paul M.; and Cullen, Owen, 4,691,537, Cl. 66-172.00R.

Cullen, Paul R.; and Schroeder, Peter J., to Tilt-Lock, Inc. Lift and reorienting mechanism. 4,687,244, 8-18-87, Cl. 294-86.410.

Cullen, Richard; Koploy, Randolph A.; Thorvick, Thomas S.; and Westman, Donald A., to Cyclomatic Industries, Inc. Voltage control system. 4,650,957, 3-17-87, Cl. 219-124.030.

Cullen, Richard A., to Cyclomatic Industries, Inc. Optical tracking device. 4,636,612, 1-13-87, Cl. 219-124.340.

Cullen, Thomas J. Device for handling a workpiece such as a container for chemotherapy drugs or the like. 4,671,477, 6-9-87, Cl. 248-122.000.

Cullen, Walter P.: *See—*
  Celmer, Walter D.; Cullen, Walter P.; Maeda, Hiroshi; and Tone, Junsuke, 4,652,523, Cl. 435-119.000.
  Celmer, Walter D.; Cullen, Walter P.; Maeda, Hiroshi; Ruddock, John C.; and Tone, Junsuke, 4,707,493, Cl. 514-460.000.

Culler, Daniel L. Resilient mounting mechanism for vehicle tail lights. 4,658,335, 4-14-87, Cl. 362-80.000.

Culler, Scott R., to Minnesota Mining and Manufacturing Company. Stable silanol priming solution for use in dentistry. 4,673,354, 6-16-87, Cl. 433-217.100.

Cullers, James M.: *See—*

Linial, Andrew V.; Hoyt, John M.; Luban, Dennis D.; and Cullers, James M., 4,665,928, Cl. 128-782.000.

Culley, Paul R., to Texas Instruments Incorporated. Video display controller system with attribute latch. 4,646,077, 2-24-87, Cl. 340-748.000.

Cullick, Alvin S., to Mobil Oil Corporation. Method and system for determining fluid volumes of a two-phase effluent fluid flow through a porous material. 4,672,840, 6-16-87, Cl. 73-38.000.

Culligan International Company: *See—*

Norton, William W., 4,668,402, Cl. 210-662.000.

Norton, William W., 4,678,565, Cl. 210-110.000.

Cullin, John, to Creative Energy Technologies, Inc. Electro-mechanical-hydraulic power generating system. 4,663,937, 5-12-87, Cl. 60-431.000.

Cullinan, George J., to Eli Lilly and Company. Hydrazide succinimide derivatives of antineoplastic indole-dihydroindole alkaloids. 4,667,030, 5-19-87, Cl. 540-478.000.

Cullinan, George J., to Eli Lilly and Company. Bifunctional derivatives of 4-desacetyl indole-dihydroindole alkaloids. 4,675,400, 6-23-87, Cl. 540-478.000.

Cullingford, Christopher V.; Forrester, John S.; and Smith, Gerald B., to Lucas Electrical Electronics and Systems Limited. Torque monitoring. 4,683,746, 8-4-87, Cl. 73-118.100.

Cullings, John S.: *See—*

Amoroso, Frank; and Cullings, John S., 4,644,299, Cl. 331-78.000.

Cullis, Herbert M., to Baxter Travenol Laboratories, Inc. Disposable centrifugal blood processing system. 4,636,193, 1-13-87, Cl. 494-45.000.

Cullity, Joseph A.: *See—*

McKenna, William J.; Silvers, Kenneth W.; Nickerson, Rand B.; Welsh, Russell J.; Walker, Harold R.; Cullity, Joseph A.; and Stryzak, Bohdan, 4,658,290, Cl. 358-84.000.

Cullmann Handelsgesellschaft fur Verbrauchsguter mbH: *See—*

Cullmann, Wolfgang; and Leinfelder, Klaus, 4,706,916, Cl. 248-168.000.

Leinfelder, Klaus, 4,695,021, Cl. 248-168.000.

Cullmann, Wolfgang; and Leinfelder, Klaus, to Cullmann Handelsgesellschaft fur Verbrauchsguter mbH. Support stand with adjustable legs. 4,706,916, 11-17-87, Cl. 248-168.000.

Cullo, Leonard A.; Nagle, Elliott V., Jr.; Restelli, Edward F., Jr.; and Yogan, Thomas J., to Aristech Chemical Corporation. Method of making anatase-titania attrition-resistant catalyst composition. 4,705,770, 11-10-87, Cl. 502-242.000.

Cullo, Leonard A.; and Shiring, Francis J., III, to Aristech Chemical Corporation. Silica-titania hydrocarbon conversion catalyst. 4,711,869, 12-8-87, Cl. 502-239.000.

Cullum, Dennis F., to Eastman Kodak Company. Apparatus useful in channel equalization adjustment. 4,694,468, 9-15-87, Cl. 375-10.000.

Culp, Carl H., Sr.: *See—*

Kitchens, Judith F.; Culp, Carl H., Sr.; Hyde, Raymond G.; and Brownlee, Shirley G., 4,701,125, Cl. 432-1.000.

Culp, Charles H.: *See—*

Cotie, Gary R.; Culp, Charles H.; Dargis, Daniel J.; Mendala, John M.; and Spielman, Stephen C., 4,667,193, Cl. 340-825.080.

Culp, Gordon W.: *See—*

Cable, Vaughn P.; Nason, Clyde K.; and Culp, Gordon W., 4,685,903, Cl. 604-154.000.

Nason, Clyde K.; and Culp, Gordon W., 4,678,408, Cl. 417-410.000.

Voss, David L.; DeCamp, Howard S.; and Culp, Gordon W., 4,707,586, Cl. 219-203.000.

Culpepper, Mark A., to Ricoh Co., Ltd.; and Ricoh Systems, Inc. Color ink jet drop generator using a solid acoustic cavity. 4,703,330, 10-27-87, Cl. 346-75.000.

Culpepper, Mark A.: *See—*

Padalino, Marco; Bolema, Stephen J.; and Culpepper, Mark A., 4,668,964, Cl. 346-75.000.

Culpepper, Will L., to Mead Corporation, The. Packaging machine. 4,642,967, 2-17-87, Cl. 53-398.000.

Culpepper, Will L.: *See—*

Feliks, James J.; and Culpepper, Will L., 4,674,935, Cl. 414-128.000.

Feliks, James J.; Culpepper, Will L.; and Scott, Dale K., 4,705,159, Cl. 198-468.800.

Culross, Claude C.: *See—*

Singhal, Gopal H.; and Culross, Claude C., 4,681,957, Cl. 556-38.000.

Culshaw, Stephen. Creamy scouring compositions. 4,676,920, 6-30-87, Cl. 252-163.000.

Culter, Gary P.: *See—*

Caputo, Anthony; and Culter, Gary P., 4,638,515, Cl. 4-661.000.

Culver, Craig F., to Cheetah Control, Inc. Control mechanism for electronic apparatus. 4,712,101, 12-8-87, Cl. 340-710.000.

Culver, Gary A. Panel assembly for vanity cabinet. 4,688,861, 8-25-87, Cl. 312-223.000.

Culver, Robin D.: *See—*

Bickley, Robert H.; and Culver, Robin D., 4,673,886, Cl. 330-298.000.

Culver, William H.: *See—*

Schmadel, Donald C., Jr.; and Culver, William H., 4,697,888, Cl. 350-358.000.

Cumberledge, Edward L.: *See—*

Mallick, George T., Jr.; Wolfe, William R.; and Cumberledge, Edward L., 4,704,546, Cl. 307-355.000.

Cumbie, Carlyen F. Tray support for wheelchair. 4,705,287, 11-10-87, Cl. 280-289.0WC.

Cumbo, Peter E.; and Fricker, Robert F., to Eastman Kodak Company. Analytical element and method for colorimetric determination of total cholesterol. 4,680,259, 7-14-87, Cl. 435-11.000.

Cuming, Kenneth J. Solenoid booster. 4,679,766, 7-14-87, Cl. 251-129.040.

Cuming, Phyllis A.: *See—*

Wellman, Russel E.; and Cuming, Phyllis A., 4,684,271, Cl. 400-241.100.

Wellman, Russel E.; and Cuming, Phyllis A., 4,687,360, Cl. 400-241.100.

Cumley, Roy Alan F., to Pirelli General plc. Insulating shroud and sleeve for the connection between a cable end and a terminal. 4,677,255, 6-30-87, Cl. 174-87.000.

Cumming Corporation: *See—*

Cumming, Newell E.; and Sidell, James H., 4,698,074, Cl. 55-126.000.

Saurenman, Donald G., 4,675,781, Cl. 361-216.000.

Cumming, Newell E.; and Sidell, James H., to Cumming Corporation. Air cleaning apparatus. 4,698,074, 10-6-87, Cl. 55-126.000.

Cumming, Norman S.: *See—*

Remp, Stephen E.; Ewen, Rodger M. H.; and Cumming, Norman S., 4,704,986, Cl. 118-318.000.

Cumming, Stephen A.; and Kelly, James D., to Amersham International plc. Bone-seeking complexes of Technetium-99m. 4,642,229, 2-10-87, Cl. 424-1.100.

Cumming, William J., to Polaroid Corporation. Thiazolidinylethylchlorocarbonates. 4,634,773, 1-6-87, Cl. 548-146.000.

Cummings, Arthur L.; Karle, David A.; and Miller, William R., to American Sterilizer Company. Method for reducing condensate on sterilized goods. 4,650,646, 3-17-87, Cl. 422-26.000.

Cummings, Corbin L.: *See—*

Farina, James S.; and Cummings, Corbin L., 4,704,475, Cl. 568-316.000.

Cummings, Darold B. Computer keyboard adaptor. 4,704,940, 11-10-87, Cl. 84-425.000.

Cummings, John G., to Indak Manufacturing Corp. Control mechanisms for automotive heating and air conditioning systems. 4,667,068, 5-19-87, Cl. 200-61.860.

Cummings, John H., to Luma Lighting Industries, Inc. Electrical distribution system and connector therefor. 4,655,520, 4-7-87, Cl. 339-21.00R.

Cummings, Lowell O., to Chemcrete International Partnership. Method for making epoxy curing agents. 4,659,787, 4-21-87, Cl. 525-504.000.

Cummings, Michael J.; Hanford, Donald E.; and Japp, Robert M., to International Business Machines Corporation. Process of laminating a photosensitive layer of a substrate. 4,714,504, 12-22-87, Cl. 156-64.000.

Cummings, Ralph E.; and Brzezinski, Denis R., to Railcar Specialties, Inc. Adjustable railway boxcar door. 4,683,678, 8-4-87, Cl. 49-426.000.

Cummings, Richard E.; Mackey, Charles S.; Dickinson, Robert W.; Dickinson, Ben W. O., III; and Larsen, Merle D., to Dickinson III, Ben Wade Oakes; and Dickinson, Robert Wayne. Curvature probe and method. 4,715,128, 12-29-87, Cl. 33-544.000.

Cummings, Robert J., to Rockwell International Corporation. Nonencumbering torso restraint system. 4,637,629, 1-20-87, Cl. 280-801.000.

Cummings, Robert J., to Rockwell International Corporation. Head restraint system. 4,664,341, 5-12-87, Cl. 244-122.0AG.

Cummings, Susan G.: *See—*

Barnes, Andrew C.; and Cummings, Susan G., 4,695,455, Cl. 424-93.000.

Barnes, Andrew C.; and Cummings, Susan G., 4,695,462, Cl. 424-195.100.

Cummins-Allison Corporation: *See—*

Rasmussen, James M.; and Mennie, Douglas U., 4,674,260, Cl. 53-212.000.

Raterman, Donald E.; and Amburn, James M., 4,693,428, Cl. 241-167.000.

Cummins Atlantic, Inc.: *See—*

Willyard, Dewey L., Jr.; Cline, David E.; and Wulfhorst, David E., 4,676,717, Cl. 415-196.000.

Willyard, Dewey L., Jr.; Cline, David E.; and Wulfhorst, David E., 4,691,423, Cl. 29-156.40R.

Cummins, Edmund M., to International Business Machines Corporation. Batch file processing. 4,642,763, 2-10-87, Cl. 364-300.000.

Cummins Engine Company, Inc.: *See—*

Baugh, J. Dan; Shields, Kent; Yam, Yoke L.; and Wells, Larry, 4,6[illegible],761, Cl. 277-235.00B.

Bostelman, Michael A., 4,648,365, Cl. 123-321.000.

Deppe, David W., 4,688,809, Cl. 277-235.00B.

Dunn, Kinion H.; Pack, Michael L.; and Holzhausen, Sonja H., 4,664,684, Cl. 55-498.000.

Johns, Kent I.; and Wohlmuth, Clinton J., 4,686,348, Cl. 219-121.0PY.

Kubo, Isoroku, 4,681,326, Cl. 277-27.000.

Loukanis, Jesse J.; Mathews, Will W.; and Tune, Raymond L., 4,711,143, Cl. 76-108.00A.

Mathews, Will W., 4,694,551, Cl. 29-402.080

Reichenbach, Dean H., 4,711,210, Cl. 123-321.000.

Samulak, Douglas J., 4,700,888, Cl. 237-2.00A.

Wells, Larry; and Baugh, James D., 4,655,177, Cl. 123-90.360.

Cummins, James M.: *See—*
Cummins, Michael; Cummins, James M.; and Theys, Raymond A., 4,640,142, Cl. 74-501.00R.

Cummins, Michael; Cummins, James M.; and Theys, Raymond A., to NI Industries, Inc. Adjustable automobile mirror system. 4,640,142, 2-3-87, Cl. 74-501.00R.

Cummins, Nolan W.: *See—*
Loeber, Frederick W.; Cummins, Nolan W.; Modglin, Rodger L.; and Greene, George O., 4,706,723, Cl. 152-410.000.

Cummins, Peter S. B. Security system for safes. 4,649,833, 3-17-87, Cl. 109-25.000.

Cummins, Richard D., to Moog Inc. Electro-mechanical actuator. 4,641,072, 2-3-87, Cl. 318-687.000.

Cummins, Richard D., to Moog Inc. Transfer chamber and method of operating same. 4,669,413, 6-2-87, Cl. 114-335.000.

Cummins, Robert: *See—*
Kirilloff, Victor V.; Benson, William A.; Cummins, Robert; and Dawson, Richard S., 4,651,124, Cl. 338-280.000.

Cumpston, Edward H. Pumped flow attrition disk zone. 4,678,127, 7-7-87, Cl. 241-46.040.

Cumro, Dennis L.: *See—*
Dragoset, William H., Jr.; and Cumro, Dennis L., 4,658,384, Cl. 367-23.000.

Cumulus Fibres, Inc.: *See—*
Street, Robert L., 4,668,562, Cl. 428-218.000.

Cundiff, John S., to Applied Science Associates, Inc. Method and apparatus for separating the pith from the fibrous component of sweet sorghum, sugar cane and the like. 4,636,263, 1-13-87, Cl. 127-42.000.

Cuneo, Carol A.; and Lambert, Charles, to General Foods Corporation. Dry, sugar-free instant pudding mix. 4,695,474, 9-22-87, Cl. 426-579.000.

Cung, David, to Chung Telecommunications. Digital data compression method and means. 4,706,264, 11-10-87, Cl. 375-122.000.

Cunning, Joseph M., to Blue Mountain Products, Inc. Misting and watering can. 4,700,892, 10-20-87, Cl. 239-289.000.

Cunningham, Allen B., to Exxon Production Research Company. Acoustic well logging method for improved amplitude data acquisition. 4,698,791, 10-6-87, Cl. 367-25.000.

Cunningham, Arthur L. Beam form and slab form adjustment structure. 4,693,449, 9-15-87, Cl. 249-210.000.

unningham, David W.; and Esakoff, Gregory F., to Lee Colortran, Inc. Portable control unit for theater, television, and film lighting control systems. 4,703,412, 10-27-87, Cl. 364-140.000.

unningham, Donald M., to Emerson Electric Co. Heating cable and method of making same. 4,650,972, 3-17-87, Cl. 219-549.000.

unningham, Donald M.; Bartels, Mark A.; and Markum, T. Randall, to Emerson Electric Co. Electric immersion heating element assembly for use with a plastic water heater tank. 4,687,905, 8-18-87, Cl. 219-336.000.

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unningham, Douglas J., to BSG International Plc. Spray deflectors for vehicles. 4,655,468, 4-7-87, Cl. 280-154.50R.

unningham, Douglas J., to Britax Weathershields Limited. Opening roof for motor vehicles. 4,655,500, 4-7-87, Cl. 296-223.000.

unningham, Frank W. Meniscal cutting device. 4,711,238, 12-8-87, Cl. 128-303.140.

unningham, Gail M., to General Motors Corporation. Quick connect tube coupling. 4,645,245, 2-24-87, Cl. 285-321.000.

unningham, Howard G., Jr., to Tektronix, Inc. Waveform data display. 4,673,931, 6-16-87, Cl. 340-722.000.

unningham, Howard W. Apparatus for separating honey and beeswax. 4,678,569, 7-7-87, Cl. 210-187.000.

unningham, Ian A.: *See—*
Fenster, Aaron; Hobbs, Barry B.; and Cunningham, Ian A., 4,669,105, Cl. 378-146.000.

unningham, James L.; and Campbell, Bonnie J., to Wolverine Tube, Inc. Heat transfer tube having internal ridges, and method of making ame. 4,660,630, 4-28-87, Cl. 165-133.000.

unningham, James L.; and Campbell, Bonnie J., to Wolverine Tube, Inc. Method for making heat exchange tubes. 4,692,978, 9-15-87, Cl. 29-157.30A.

unningham, Jeffrey E. Tea bag holding device. 4,688,479, 8-25-87, Cl. 100-133.000.

unningham, Jerry M. Safety device for preventing the unauthorized firing of a weapon by releasing the hammer spring. 4,672,763, 6-16-87, Cl. 42-70.110.

unningham, John. Snap-on button. 4,662,034, 5-5-87, Cl. 24-90.00R.

unningham, John D.: *See—*
Remz, Harvey M.; Gordon, Philip J.; Cunningham, John D.; and Melnik, Joseph D., 4,712,571, Cl. 132-88.700.

unningham, John J.: *See—*
Hannaford, John J.; and Cunningham, John J., 4,649,971, Cl. 144-3.00H.

unningham, Kirkwood M.: *See—*
Goldberg, Marvin C.; Cunningham, Kirkwood M.; and Weiner, Eugene R., 4,696,571, Cl. 356-336.000.

nningham, Lawrence J.: *See—*
Naiman, Michael I.; Schield, John A.; and Cunningham, Lawrence J., 4,708,993, Cl. 525-356.000.

nningham, Michael J. Space saver cart. 4,679,805, 7-14-87, Cl. 280-33.99R.

nningham, Richard D.; and Grose, Ronald D., to Enron Corp. Method of automatically measuring fluid flow rates. 4,653,321, 3-31-87, Cl. 73-197.000.

Cunningham, Richard M.: *See—*
Kulp, Jack H.; and Cunningham, Richard M., 4,710,053, Cl. 404-9.000.

Cunningham, Richard N.: *See—*
Jenkins, Kenneth L.; Suhaka, Stanley C.; Dolin, Rick L.; LaRoche, Allan R.; Hodgson, Robert E.; Such, Neil R.; Smith, Douglas D.; Newton, Frank R.; and Cunningham, Richard N., 4,634,622, Cl. 428-143.000.

Cunningham, Robert A., to Hughes Tool Company - USA. Drill pipe inside blowout preventer. 4,694,855, 9-22-87, Cl. 137-519.500.

Cunningham, Robert E.: *See—*
Halasa, Adel F.; and Cunningham, Robert E., 4,696,986, Cl. 526-181.000.

Cunningham, Robert L.; Rhodes, Charles R.; Angotti, Carl; and Warner, Paul H., to A. T. Hunn Company. Multiple speed pump electronic control system. 4,686,439, 8-11-87, Cl. 318-335.000.

Cunningham, S. Michael: *See—*
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Cunningham, Sinclair: *See—*
Wusthof, Peter; and Cunningham, Sinclair, 4,704,948, Cl. 92-58.000.

Cunningham, Wallace: *See—*
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Nitchman, Harold L.; and Cunningham, William B., Jr., 4,678,101, Cl. 222-82.000.

Cunningham, William C., to United States of America, National Aeronautics and Space Administration. Remotely controlled spray gun. 4,666,086, 5-19-87, Cl. 239-433.000.

Cunnion, James P., Jr.; and Sands, Bruce W., to PQ Corporation. Explosive systems. 4,664,728, 5-12-87, Cl. 149-2.000.

Curo Incorporated: *See—*
Barnes, Robert G., Jr.; and Meyering, Mark T., 4,707,265, Cl. 210-638.000.
Chu, Chaokang, 4,704,207, Cl. 210-347.000.
Hou, Kenneth C.; and Cogswell, Garrett, 4,639,513, Cl. 530-387.000.
Hou, Kenneth C.; and Ostreicher, Eugene A., 4,645,567, Cl. 162-181.600.
Hou, Kenneth C.; and Liao, Tung-Ping D., 4,687,820, Cl. 525-54.100.
Ostreicher, Eugene A.; Knight, Rodney A.; Fiore, Joseph V.; Emond, George T.; and Hou, Kenneth C., 4,673,504, Cl. 210-500.220.
Ostreicher, Eugene A.; Knight, Rodney A.; Fiore, Joseph V.; Emond, George T.; and Hou, Kenneth C., 4,708,803, Cl. 210-650.000.
Ostreicher, Eugene A.; Knight, Rodney A.; Fiore, Joseph V.; Emond, George T.; and Hou, Kenneth C., 4,711,793, Cl. 427-244.000.
Rai, Vish; Southall, Kenneth; Webster, Timothy; Leeke, Gordon; and Chu, Chaokang, 4,675,104, Cl. 210-198.200.

Cuny, Francis: *See—*
Bolot, Denis; Cuny, Francis; and Lasnier, Didier, 4,653,692, Cl. 239-427.000.

Cuomo, Jerome J.; and Guarnieri, Charles R., to International Business Machines Corporation. Photoelectric enhanced plasma glow discharge system and method including radiation means. 4,664,769, 5-12-87, Cl. 204-192.100.

Cuomo, Jerome J.: *See—*
Bumble, Bruce; Cuomo, Jerome J.; Logan, Joseph S.; and Rossnagel, Steven M., 4,637,853, Cl. 156-345.000.
Clark, Gregory J.; Chaudhari, Praveen; Cuomo, Jerome J.; Frisch, Margaret A.; and Speidell, James L., 4,714,831, Cl. 250-305.000.

Cuperus, Rinze: *See—*
Bos, Jacobus J.; Cuperus, Rinze; and Wielinga, Rudolf, 4,695,628, Cl. 540-312.000.

Cupidro, Vincent N.: *See—*
Pedersen, David; and Cupidro, Vincent N., 4,697,335, Cl. 29-620.000.

Cuppen, Johannes J. M., to U.S. Philips Corporation. Method and device for determining an NMR distribution in a region of a body. 4,682,109, 7-21-87, Cl. 324-309.000.

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Cuppen, Johannes J. M.: *See—*
Kunz, Dietmar W.; Tuithof, Hans H.; and Cuppen, Johannes J. M., 4,707,659, Cl. 324-309.000.

Cuppens, Roger; and Hartgring, Cornelis D., to U.S. Philips Corporation. Non-volatile, programmable, static memory cell. 4,707,807, 11-17-87, Cl. 365-154.000.

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Quinn, Daniel J.; Mulholland, Wayne A.; Bond, Robert H.; Olla, Michael A.; Cupples, Jerry S.; Tsitovsky, Ilya L.; Mozdzen, Barbara R.; Held, Charles F.; Wilson, Linda S.; and Nguyen, Yen T., 4,685,998, Cl. 156-633.000.

Cur, Omer N., to Whirlpool Corporation. Locally inverted fin for an air conditioner. 4,705,105, 11-10-87, Cl. 165-151.000.

CuraMED Pharma GmbH: *See—*
Chrubasik, Joachim; and Chrubasik, Sigrun, 4,670,418, Cl. 514-11.000.

Curatolo, Benedict S.; Sentman, Robert C.; and Coffey, Gerald P., to Standard Oil Company, The. Process for the manufacture of polyamide from diamine and diamide utilizing oxygenated compound of carbon, boron, nitrogen and sulfur as catalyst. 4,640,976, 2-3-87, Cl. 528-336.000.

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Curbow, James M.; and Spector, George. Flosser. 4,671,307, 6-9-87, Cl. 132-91.000.

Curchod, Donald B. Light weight dynamic wheel balancing machine. 4,635,481, 1-13-87, Cl. 73-460.000.

Curci, Alfred. Single-stick control system for helicopters. 4,667,909, 5-26-87, Cl. 244-234.000.

Curcio, Maria: *See—*

Arru, Piero; Bona, Gioachino; Curcio, Maria; and Vallana, Franco, 4,666,442, Cl. 623-2.000.

Curda, Otakar; Maxa, Jaroslav; and Uhlir, Pavel, to Elitex, koncern textilniho strojirenstvi. Thread movement sensor. 4,710,646, 12-1-87, Cl. 307-116.000.

Cureton, George K.; Scalzo, Joseph; and White, Gary J., to S. V. Engine Co. Pty. Ltd. Wabble plate engine mechansim. 4,688,439, 8-25-87, Cl. 74-60.000.

Cureton, John E.; and Lyons, Michael R., to Rolls-Royce plc. Gas turbine engine valve control system. 4,702,070, 10-27-87, Cl. 60-39.070.

Curie, Kevin J.; and Jesse, Jerry F., to American Can Company. Oriented multiple layer films and bags made therefrom. 4,687,688, 8-18-87, Cl. 428-35.000.

Curiel, Raymond F. Self-charging solar battery. 4,648,013, 3-3-87, Cl. 362-183.000.

Curiel, Yoram, to Flexcel International, Inc. Liquid reservoir and method of using a vehicle to dispense liquid therefrom. 4,676,280, 6-30-87, Cl. 141-1.000.

Curl, Ricky L.: *See—*

Johnson, Terry W.; Harms, Daryl E.; and Curl, Ricky L., 4,695,880, Cl. 358-86.000.

Curlee, James D., to Pneumedic Corp. Compound force sacro-lumbar support belt. 4,682,587, 7-28-87, Cl. 128-78.000.

Curlee, James D., to Pneumedic Corp. Compound force therapeutic corset. 4,682,588, 7-28-87, Cl. 128-78.000.

Curles, Curtis T., to Harris Press and Shear, Inc. Rail breaker. 4,702,403, 10-27-87, Cl. 225-96.500.

Curlett, Harry B.; and Raulins, George M., to Innotech Energy Corporation. Apparatus for coupling multi-conduit drill pipes. 4,676,563, 6-30-87, Cl. 439-194.000.

Curlett, Harry B., to Innotech Energy Corporation. Drill pipes and casings utilizing multi-conduit tubulars. 4,683,944, 8-4-87, Cl. 166-65.100.

Curley, Charles M., to SCM Corporation. Right margin zone hyphenation. 4,678,351, 7-7-87, Cl. 400-64.000.

Curran, Barry D., to Morgan Corporation. Scale devices. 4,673,048, 6-16-87, Cl. 177-146.000.

Curran Company, The: *See—*

Sims, Richard E., 4,696,547, Cl. 350-319.000.

Curran, Dennis P.: *See—*

Kende, Andrew S.; Curran, Dennis P.; King, Margaret L.; and Feldstein, Neil A., 4,667,043, Cl. 547-445.000.

Curran, Earl J., Jr.: *See—*

Kampf, Julian C.; Reichard, Jeffrey A.; Libert, James T.; Curran, Earl J., Jr.; and Graefe, Richard J., 4,634,951, Cl. 318-778.000.

Libert, James T.; and Curran, Earl J., Jr., 4,710,692, Cl. 318-729.000.

Curran, Jeffrey M.; Weaver, Jeffrey D.; and Weaver, Robert A. Gasoline combustion engine. 4,703,741, 11-3-87, Cl. 123-557.000.

Curran, Kenneth J., to Vivitar Corporation. Camera to flash adapter. 4,704,023, 11-3-87, Cl. 354-416.000.

Curran, Kennth: *See—*

May, Richard L.; Smith, Jay; and Wolf, Harley, 4,715,602, Cl. 273-86.00R.

Curran, Neal J.: *See—*

Kaiser, Robert T.; Curran, Neal J.; and Wakefield, Theodore D., II, 4,671,257, Cl. 128-25.00R.

Curran, Patrick A., to Texas Instruments Incorporated. Process for making a buried conductor by fusing two wafers. 4,704,785, 11-10-87, Cl. 437-110.000.

Curran, Patrick A.: *See—*

Ang, Saw T.; and Curran, Patrick A., 4,707,721, Cl. 357-54.000.

Curriculum Associates, Inc.: *See—*

Brigance, Albert H., 4,650,426, Cl. 434-322.000.

Currie, Edmund; and Frankel, Hillel. Collapsible support stand for an electronic musical keyboard and the like. 4,634,090, 1-6-87, Cl. 248-544.000.

Currie, Janie K.; Cooper, Arthur J.; and Pesa, Frederick A., to Standard Oil Company, The. Metal coordination complexes of heteropolyacids as catalysts for alcohol conversion. 4,687,875, 8-18-87, Cl. 585-469.000.

Currie, Janie K.: *See—*

Desmond, Michael J.; Currie, Janie K.; and Pesa, Frederick A., 4,681,747, Cl. 423-277.000.

Currier, David W.: *See—*

McCarthy, Christopher I.; and Currier, David W., 4,658,091, Cl. 174-52.0PE.

Currier, Edward J.: *See—*

Bregman, Arie P.; Collette, Ronald J.; and Currier, Edward J., 4,645,180, Cl. 251-360.000.

Currier, John L., Jr., to United States of America, Air Force. Selection of data from busses for test. 4,651,298, 3-17-87, Cl. 364-900.000.

Currier, Joseph G.: *See—*

Powers, Richard G.; Zeets, Joseph S.; Currier, Joseph G.; and Alley, Lewis F., 4,708,296, Cl. 241-82.200.

Currier, Theodore R.: *See—*

Adlam, Arthur H.; Wittbrodt, Donald R.; Scully, Andrew J.; Smith, Roger R.; Tuteja, Balbir S.; Currier, Theodore R.; George, Rita M.; Yopp, Roger W.; and Hussaini, Syed M., 4,671,162, Cl. 89-1.130.

Currin, Adrian B.: *See—*

McJohnson, Robert B.; Currin, Adrian B.; and Nelson, Robert R., 4,644,143, Cl. 235-462.000.

Curro, John G.: *See—*

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Curro, John J.; Trusty, Alan J.; and Vernon, George M., to Procter & Gamble Company, The. Production of formed material by solid-state formation with a high-pressure liquid stream. 4,695,422, 9-22-87, Cl. 264-504.000.

Curro, John J.: *See—*

Linman, E. Kelly; Curro, John J.; and Weinshenker, Eugene, 4,681,793, Cl. 428-138.000.

Ouellette, William R.; Alcombright, Daniel S.; Curro, John J.; and Linman, E. Kelly, 4,637,819, Cl. 604-369.000.

Curry, Bill P.; Jones, John H.; Seiber, Brian L.; Price, Lynwood L.; Powell, Homer M.; and Kiech, Earl L., to United States of America, Air Force. In situ small particle diagnostics. 4,679,939, 7-14-87, Cl. 356-336.000.

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Curry, David G.; and Taylor, John W. Rapid dismount security door. 4,671,015, 6-9-87, Cl. 49-465.000.

Curry, Donald P.; and LaCasse, David R. Dryer of the tenter type. 4,663,863, 5-12-87, Cl. 34-54.000.

Curry, Douglas N., to Xerox Corporation. Raster scanner variable-frequency clock circuit. 4,639,789, 1-27-87, Cl. 358-285.000.

Curry, Herbert L.; and Roberts, Ernest E., to General Electric Company. Low glare polycarbonate sheet with improved optical properties. 4,661,394, 4-28-87, Cl. 428-212.000.

Curry, Herbert L., to General Electric Company. Methyl methacrylic coatings on thermoplastic substrates. 4,666,779, 5-19-87, Cl. 428-412.000.

Curry, Herbert L.; and Crouch, Earl T., to General Electric Company. Methyl methacrylic coatings on thermoplastic film. 4,683,169, 7-28-87, Cl. 428-337.000.

Curry, Jay M.; Gray, Edward R.; Davis, Edward L.; Rollo, Edward J., Jr.; and Long, Paul D., Jr., to General American Transportation Corporation. Spirally welded tank cars. 4,664,307, 5-12-87, Cl. 228-145.000.

Curry, Kenneth V.: *See—*

Callingham, Martin; Chaudhuri, Dwaipayan; Curry, Kenneth V.; Pike, Barry G.; and Taylor, Michael B., 4,650,670, Cl. 424-65.000.

Curry, Kent G.: *See—*

Thompson, William W.; Bacon, Lawrence D.; Curry, Kent G.; and Morihiro, Steve, 4,676,138, Cl. 89-33.140.

Curry, Martin W., to Royal Master Systems, Inc. Storage container for floppy discs. 4,697,704, 10-6-87, Cl. 206-444.000.

Curry, Raymond L. Mini-kitchen. 4,672,944, 6-16-87, Cl. 126-25.00R.

Curry, Robert E.: *See—*

Witty, Thomas R.; Curry, Robert E.; and Smith, Roger E., 4,675,299, Cl. 436-165.000.

Curry, Roger F. N. Flat bed knitting machines. 4,672,824, 6-16-87, Cl. 66-146.000.

Curt G. Joa, Inc.: *See—*

Lammers, Donald W., 4,634,482, Cl. 156-164.000.

Curt, Valerian. Retaining wall. 4,685,838, 8-11-87, Cl. 405-284.000.

Curt, Walter M.: *See—*

Braun, Warren L.; and Curt, Walter M., 4,685,065, Cl. 364-485.000.

Curti, Carlo, to Sauer S.p.A. Plant for the production of popsicles and icecreams incorporaing a holding stick. 4,715,193, 12-29-87, Cl. 62-345.000.

Curti, Ezio. Arrangement for aligning a printed circuit substrate in a printing machine. 4,700,488, 10-20-87, Cl. 33-613.000.

Curtice, Walter R., to RCA Corporation. Fast ternary (GaInAs) logic gate device. 4,639,752, 1-27-87, Cl. 357-16.000.

Curtin, David J.; and Yates, David E., to ICI Australia Limited. Ga bubble-sensitized explosive compositions. 4,676,849, 6-30-87, C 149-2.000.

Curtin, Leonard E., to Harris Corporation. Interface for connecting standard telephones to party lines. 4,645,877, 2-24-87, Cl. 379-183.000.

Curtin, Leonard E.: *See—*

Pierce, Ben A.; Curtin, Leonard E.; Chan, Aaron; and Coffelt, Steven R., 4,670,898, Cl. 379-22.000.

Curtin, Richard R.; and Clemente, Paul M., to Prime Computer, Inc. Multi-format binary coded decimal processor with selective output formatting. 4,644,489, 2-17-87, Cl. 364-736.000.

Curtin, William J.; and Soto, Stephen, to Amtel Communications, Inc. Call screening system. 4,634,811, 1-6-87, Cl. 379-211.000.

Curtin, William J., to Amtel Communications, Inc. Method and system for identifying telephone callers. 4,672,660, 6-9-87, Cl. 379-88.000.

Curtin, William J.; Adams, Cedric; and Soto, Stephen H., to Amtelco. Telephone line concentrator without switching matrix. 4,674,116, 6-16-87, Cl. 379-211.000.

Curtin, William J.; Soto, Stephen; and Krueger, Steven, to Amtel Communications, Inc. Telephone answering system with line detector. 4,701,950, 10-20-87, Cl. 379-214.000.

- urtis, Albert E., III: *See—*
  - Saporito, Michael J.; Deleo, Salvatore J.; Lewis, Paul A.; Curtis, Albert E., III; D'Arienzo, Joseph; and Roller, David P., Jr., 4,663,727, Cl. 364-551.000.
- urtis, David C. Sausage stuffer. 4,712,274, 12-15-87, Cl. 17-39.000.
- urtis, Donald D., to United States of America, Navy. Control of processibility by particle size in high energy solid propellants. 4,693,764, 9-15-87, Cl. 149-19.400.
- urtis-Dyna Products Corporation: *See—*
  - Stowe, John H., 4,643,354, Cl. 239-1.000.
- urtis, Edwin. Aircraft duct gimbaled joint. 4,645,244, 2-24-87, Cl. 285-114.000.
- urtis, Gerald J. Sealed and secured fastener. 4,710,082, 12-1-87, Cl. 411-373.000.
- urtis, H. Edward, and Gaffney, Thomas J., to American Home Products Corporation. Dispensing container for triphasic. 4,706,815, 11-17-87, Cl. 206-531.000.
- urtis, Harold W., to Brookfield Engineering Laboratories, Inc. Quieting circuits for permanent magnet synchronous motors. 4,678,978, 7-7-87, Cl. 318-690.000.
- urtis Instruments, Inc.: *See—*
  - Finger, Eugene P., 4,712,195, Cl. 365-226.000.
- urtis, John M. Grip assembly. 4,662,229, 5-5-87, Cl. 73-859.000.
- urtis, Kenneth B.: *See—*
  - Mills, Arthur; and Curtis, Kenneth B., 4,700,634, Cl. 108-43.000.
- urtis, Marland. Bulk conveyor. 4,696,390, 9-29-87, Cl. 198-823.000.
- urtis, R. Stephen. Mid-hind foot stabilizer. 4,649,939, 3-17-87, Cl. 128-80.00H.
- urtis, Richard A.: *See—*
  - Pederson, Loren K.; and Curtis, Richard A., 4,669,417, Cl. 118-44.000.
- urtis, Richard M.; and Kreutz, Thomas G. Safety deck system. 4,699,076, 10-13-87, Cl. 114-347.000.
- rtis, Stephen P.; and Jordan, Gary V., to Senelco Limited. Transponder systems. 4,679,046, 7-7-87, Cl. 342-51.000.
- rtis, Thad C., Sr. Evaporative air conditioner and method. 4,674,295, 6-23-87, Cl. 62-309.000.
- rtis, Walter B.; Davis, Gregory L.; and Klimowicz, Mark C., to Texaco Inc. Marine shock absorbing apparatus with stabilizers. 4,715,310, 12-29-87, Cl. 114-220.000.
- rtis, William I.; and DeRamo, Paul H., to Harsco Corporation. Abrasive belt surface grinder and method. 4,646,475, 3-3-87, Cl. 1-145.00T.
- rtiss, Linda K.; and Edgington, Thomas S., to Scripps Clinic and Research Foundation. Diagnostic assay for the presence of apolipoproteins associated with plasma high density lipoproteins. 4,677,057, -30-87, Cl. 435-7.000.
- rtiss, Walter W.; and Lynch, John E., to Goodyear Tire & Rubber Company, The. Bias ply snow tire compatible with radial ply tires. ,693,290, 9-15-87, Cl. 152-450.000.
- rtiss, William P.: *See—*
  - Fulton, Donald E.; Curtiss, William P.; and Leehey, Jonathan R., 4,670,698, Cl. 318-802.000.
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- tze, Edward W., to Libbey-Owens-Ford Co. Article supporting xture. 4,679,525, 7-14-87, Cl. 118-500.000.
- tze, Edward W., to Libbey-Owens-Ford Co. Painting mask and xture. 4,704,987, 11-10-87, Cl. 118-500.000.
- utchet, Jean L., to AECI Limited. Low energy fuses. 4,671,178, -9-87, Cl. 102-275.100.
- zons, Alan D., to Beecham Group p.l.c. Isolation of pseudomonic cid. 4,639,534, 1-27-87, Cl. 549-414.000.
- zons, Alan D.: *See—*
  - Cook, Michael A.; Curzons, Alan D.; and Wilkins, Robert B., 4,647,659, Cl. 540-349.000.
- ack, Michael D., to United Technologies Corporation. Method for ensifying leadframe conductor spacing. 4,711,700, 12-8-87, Cl. 56-651.000.
- ano, Carmen M.: *See—*
  - Nalesnik, Theodore E.; and Cusano, Carmen M., 4,663,064, Cl. 252-51.50A.
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- chera, Casper. Nested hub knock-down pedestal. 4,712,758, 2-15-87, Cl. 248-188.700.
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- e, Arthur R. System for the transmission of power. 4,714,371, 2-22-87, Cl. 403-355.000.
- hing, Vincent J. Signal conditioner for electromagnetic flowmeter. ,672,331, 6-9-87, Cl. 331-65.000.
- hman Industries, Incorporated: *See—*
  - Pruden, Samuel H., 4,667,970, Cl. 279-120.000.
- ick, Danny R.: *See—*
  - Kelly, Robert J.; and Cusick, Danny R., 4,672,567, Cl. 364-572.000.
- ick, Gordon E.; and Susutoglu, Murat A. Y., to University of anchester Institute of Science and Technology, The. Production of arns. 4,662,169, 5-5-87, Cl. 57-401.000.
- ick, Joseph B., III; and Raney, Ty A., to Tweco Products, Inc. able connector assembly. 4,702,539, 10-27-87, Cl. 439-588.000.
- imano, Andrew D.; and Humes, Danny W., to United Centrifugal umps. Plasma transfer welded arc torch. 4,672,171, 6-9-87, Cl. 19-121.0PM.
- Cusson, Paul R., to N.S.M. Corporation. Satellite dish antenna frame. 4,709,241, 11-24-87, Cl. 343-916.000.
- Custeau, Lincoln. Exhaust pipe coupler. 4,714,279, 12-22-87, Cl. 285-239.000.
- Custer, Harry W. Hair trimming tool. 4,663,841, 5-12-87, Cl. 30-30.000.
- Custer, Russell C.: *See—*
  - Keem, John E.; Bergeron, Richard C.; Custer, Russell C.; and McCallum, R. William, 4,637,967, Cl. 429-101.000.
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  - Stackhouse, David W., 4,670,197, Cl. 261-112.000.
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  - Palazzolo, Francis V.; and Polachowski, Wayne T., 4,645,056, Cl. 193-35.00A.
- Custom-Bilt Machinery, Inc.: *See—*
  - Faltin, Hans G., 4,678,172, Cl. 270-18.000.
- Custom Machinery Design, Inc.: *See—*
  - Gietman, Peter J., Jr., 4,642,084, Cl. 493-190.000.
  - Gietman, Peter J., Jr., 4,667,890, Cl. 242-55.000.
  - Gietman, Peter J., Jr., 4,695,005, Cl. 242-56.00R.
- Custom Medical Devices, Inc.: *See—*
  - Pegg, Robert J.; and Gaertner, William L., Jr., 4,649,918, Cl. 128-305.000.
- Custom Rubber Products, Inc.: *See—*
  - Presti, Frederick J., 4,664,353, Cl. 249-65.000.
- Custom Sample Systems, Inc.: *See—*
  - Ponstingl, Michael J.; Trump, Walter N.; and Kessler, Robert C., 4,637,730, Cl. 356-411.000.
- Custom Spec Engineering, Inc.: *See—*
  - Badiali, John A., 4,643,052, Cl. 81-57.280.
- Custom Stamping & Manufacturing Company: *See—*
  - Stoudt, Theodore L., 4,676,015, Cl. 40-608.000.
- Custom Technical Enterprises: *See—*
  - Houseman, Walter R., 4,679,487, Cl. 89-140.000.
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  - Cloyd, William C., 4,696,524, Cl. 439-197.000.
- Custon Auto Exteriors: *See—*
  - Ernsberger, Earl R., 4,634,607, Cl. 427-282.000.
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  - Carreras, Richard A.; Cusumano, Salvatore J.; Jenks, Morton B.; and Suizu, Robert I., 4,667,090, Cl. 250-201.000.
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  - Senior, John M.; and Cusworth, Stewart D., 4,670,649, Cl. 250-227.000.
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  - Anderson, Mike K.; DieBold, Barry L.; Cutforth, Norman F.; and Cutforth, Dean J., 4,662,800, Cl. 406-53.000.
- Cutforth, Norman F.: *See—*
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  - Davy, Peter G.; and Cuthbertson, Brian G., 4,697,229, Cl. 363-49.000.
- Cuthbertson, Robert H., to Ametek, Inc. Fire fighting tool and method. 4,676,319, 6-30-87, Cl. 169-70.000.
- Cutler, Burton: *See—*
  - Cutler, Stanley; and Cutler, Burton, 4,664,634, Cl. 434-311.000.
- Cutler, Cassius C.: *See—*
  - Youngquist, Robert C.; Brooks, Janet L.; Fesler, Kenneth A.; Cutler, Cassius C.; and Shaw, Herbert J., 4,697,926, Cl. 356-345.000.
- Cutler, Donald R., to Chicago Bridge & Iron Company. Floating cover tank with guides for vertical displacement of the cover. 4,648,968, 3-10-87, Cl. 210-218.000.
- Cutler, Douglas A. Multi-decked keyboard for musical instruments. 4,658,695, 4-21-87, Cl. 84-424.000.
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  - Sandland, Paul; Levy, Kenneth; Singleton, Russell M.; Hodgson, Michael L.; and Cutler, Gerald R., 4,644,172, Cl. 250-548.000.
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- Cutler, William P., to J.M.J. Technologies Inc. Thermal insulating blanket. 4,675,225, 6-23-87, Cl. 428-74.000.
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Cutters Exchange, Inc.: *See—*
  Smith, Hoyt L.; and Farrah, D. Frank, 4,676,494, Cl. 270-30.000.
Cutts, Stanley J.: *See—*
  Carey, Paul D.; Cutts, Stanley J.; Heath, John S.; White, David E.; and Evans, David A., 4,660,117, Cl. 360-133.000.
Cutts, William H.: *See—*
  Seydel, Scott O.; Letbetter, William D.; and Cutts, William H., 4,641,404, Cl. 28-178.000.
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  Seydel, Scott O.; and Cutts, William H., 4,710,396, Cl. 427-8.000.
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Cuvelier, Antoine L.; and Boucher, Guy M. G., to Huret et ses Fils. Electronic odometer in particular for a cycle. 4,638,448, 1-20-87, Cl. 364-565.000.
Cuvelier, Jacques A.: *See—*
  Ascher, Frederic M.; and Cuvelier, Jacques A., 4,643,893, Cl. 424-16.000.
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  Julia, Marc; and Cuvigny, Therese, 4,670,577, Cl. 558-378.000.
Cuvillier, Roger. Stereoscopic photography camera. 4,687,310, 8-18-87, Cl. 354-115.000.
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Cuypers, Martinus H., to Gayliene Investments Limited. Endless metal belt. 4,661,089, 4-28-87, Cl. 474-242.000.
Cuypers, Martinus H.: *See—*
  Horowitz, Alexandre; Cuypers, Martinus H.; and van Rooji, Jacobus H. M., 4,642,079, Cl. 474-219.000.
Cuzin, Daniel, to ATOCHEM. Polyamide oligomer-epoxy polymers and methods for their preparation and use. 4,673,723, 6-16-87, Cl. 528-113.000.
Cvek, Sava. Modelmaker's miter jig. 4,712,462, 12-15-87, Cl. 83-762.000.
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CVP Systems, Inc.: *See—*
  Mykleby, Laurie G., 4,660,721, Cl. 206-439.000.
CWA Constructions SA: *See—*
  Frech, Anton; and Riser, Georg, 4,655,144, Cl. 105-341.000.
Cwirzen, Casimir Z., to Northern Telecom Limited. Overload protector for communications systems. 4,675,778, 6-23-87, Cl. 361-119.000.
CX/OXYTECH, Inc.: *See—*
  Elfline, Geraldine S., 4,678,584, Cl. 210-719.000.
CXA Ltd.: *See—*
  Kelly, George G.; and Welburn, David J., 4,699,059, Cl. 102-275.700.
CXA Ltd./CXA LTEE: *See—*
  Kelly, George G.; McLaughlin, Henry; and Simon, James R., 4,714,017, Cl. 102-275.300.
CXC Corporation: *See—*
  Nelson, Gary A.; Godding, Patrick N.; Schumaker, Richard E.; Walter, Keith D.; Marrone, Edward S.; Gates, Stillman E.; Rigsbee, Everett O., III; and Teener, Michael D., 4,679,191, Cl. 370-84.000.
Cybermation, Inc.: *See—*
  Holland, John M., 4,657,104, Cl. 180-211.000.
Cybertronics Ltd.: *See—*
  Danino, David; and Ben-Meir, Shachar, 4,651,992, Cl. 273-155.000.
  Kustanovich, Yosef, 4,644,801, Cl. 73-862.040.
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Cyberware Laboratory Inc.: *See—*
  Addleman, David A.; and Addleman, Lloyd A., 4,705,401, Cl. 356-376.000.
Cybulsky, Michael; Piwonka, Thomas S.; and Brittain, Virgil R., to TRW Inc. Controlled solidification, method of distributing strengthening additives and maintaining a constant melt level. 4,683,936, 8-4-87, Cl. 164-122.100.
Cycles Peugeot: *See—*
  Bianchi, Francois; Busa, Denis; and Fourrey, Francois, 4,666,210, Cl. 297-362.000.
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  Clerc, Michel, 4,693,338, Cl. 181-231.000.
  Clerc, Michel M.; Mouhot, Frederic M.; and Barnabe, Jean-Pierre, 4,693,136, Cl. 74-492.000.
  Deley, Serge; and Fourrey, Francois, 4,685,737, Cl. 297-408.000.
  Fourrey, Francois; and Caburet, Pierre, 4,637,655, Cl. 297-410.000.
  Fourrey, Francois; and Perrissin-Fabert, Jean, 4,645,263, Cl. 297-366.000.
  Mouhot, Frederic; Barnabe, Jean-Pierre; Hoblingre, Andre; and Clerc, Michel, 4,648,624, Cl. 280-775.000.
Cyclomatic Industries, Inc.: *See—*
  Cullen, Richard; Koploy, Randolph A.; Thorvick, Thomas S.; and Westman, Donald A., 4,650,957, Cl. 219-124.030.
  Cullen, Richard A., 4,636,612, Cl. 219-124.340.
Cyclonaire Bulk Cargo Systems, Inc.: *See—*
  van Aalst, Gerhardt, 4,659,262, Cl. 406-29.000.
  van Aalst, Gerhardt, 4,701,080, Cl. 406-109.000.
Cyclonaire Corporation: *See—*
  Nelson, George C.; and Quaintance, Roger L., 4,669,505, Cl. 137-874.000.
Cyclops Corporation: *See—*
  Hartman, Thomas W.; and Ryan, Thomas G., 4,682,456, Cl. 52-221.000.
  Ryan, Thomas G., 4,697,399, Cl. 52-303.000.
Cycon, Michael F., Jr.: *See—*
  Tippetts, Thomas B.; and Cycon, Michael F., Jr., 4,648,807, Cl. 417-322.000.
Cydzik, Edward A.: *See—*
  Gen, Tamar G.; and Cydzik, Edward A., 4,667,569, Cl. 228-103.000.
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Cygan, Wolfgang: *See—*
  Kratzsch, Eberhard; Cygan, Wolfgang; and Kiss, Nandor, 4,692,365, Cl. 428-87.000.
Cygielski, Bozena, to C.T.F. Research Company. One-time use medical syringe invention. 4,687,467, 8-18-87, Cl. 604-110.000.
Cyklop International Emil Hoffman KG: *See—*
  Sebelist, Norman C.; and Fulton, Edward N., 4,635,542, Cl. 100-3.000.
Cykman, Josef. Locking arrangement for the gearshift stick of vehicles. 4,693,099, 9-15-87, Cl. 70-247.000.
Cyl - Pak, Inc.: *See—*
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  Leo, Vincent B.; Cyll, Kenneth M.; and Ide, Mason G., 4,713,524, Cl. 219-307.000.
Cymatics, Inc.: *See—*
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Cymbalista, Samuel, to Inter-Yeda Ltd. Stable interferon β composition and a method of stabilizing interferon β. 4,647,454, 3-3-87, Cl. 424-80.000.
Cymbaluk, Ted H., to Phillips Petroleum Company. Hydrogenation catalysts and process of making said catalyst. 4,659,687, 4-21-87, Cl. 502-207.000.
Cymbaluk, Ted H.: *See—*
  Coombs, Daniel M.; Cymbaluk, Ted H.; Bertus, Brent J.; and Kukes, Simon G., 4,680,105, Cl. 208-251.00H.
  Coombs, Daniel M.; Cymbaluk, Ted H.; Bertus, Brent J.; and Kukes, Simon G., 4,705,768, Cl. 502-213.000.
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Cynara Company, The: *See—*
  Kelly, Ralph M., 4,659,343, Cl. 55-16.000.
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Cypress Semiconductor Corp.: *See—*
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  Young, Kenneth E.; and Bateman, Bruce L., 4,636,983, Cl. 365-181.000.
Cyr, John F. Adapter system for marine auto pilot. 4,681,055, 7-21-87, Cl. 114-144.00E.
Cyr, John P.: *See—*
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Czajkowski, Julian; and DeJong, Allan, to Canadian Fram Limited. Failsafe fan clutch. 4,653,620, 3-31-87, Cl. 192-17.00R.
Czajkowski, Stanislaw B., to Sonic Tape P.L.C. Electrical circuits for timing signals. 4,644,513, 2-17-87, Cl. 367-108.000.
Czarnecki, Bogdan A.; and Limb, David I., to Costain Petrocarbon Limited. Purification of helium. 4,675,030, 6-23-87, Cl. 55-16.000.
Czarnecki, Carl: *See—*
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Czarnecki, Carl G.: *See—*
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Czarniak, Jean-Christophe; and Diot, Rene, to International Business Machines Corporation. Constant biasing circuit and operational amplifier using said circuit. 4,656,435, 4-7-87, Cl. 330-253.000.

Czarniecki, Michael F.: *See—*
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Czarnocki, Walter S., to Motorola, Inc. Capacitor sensor and method. 4,656,871, 4-14-87, Cl. 73-724.000.

Czarnul, Zdzislaw, to Columbia University in the City of New York. Semiconductive MOS resistance network. 4,710,726, 12-1-87, Cl. 330-69.000.

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Czauderna, Klaus, to Herbert Kannegiesser GmbH & Co. Appliance for draining washed laundry articles. 4,676,079, 6-30-87, Cl. 68-242.000.

Czech, Edward A.: *See—*
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Czech, Guenther, to Simro A.G. Spectacle frame and parts thereof. 4,655,564, 4-7-87, Cl. 351-41.000.

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Czech, Manuel. Dispenser for paste-like products. 4,685,594, 8-11-87, Cl. 222-182.000.

Czeczerski, Nordfried. Massager. 4,633,857, 1-6-87, Cl. 128-50.000.

Czeiler, Andras; Lukacs, Sandor; Palotai, Tamas; Lakatos, Tibor; and Bakdos, Gyorgy, to Tungsram Reszvenytarsasag. Process of surface treating luminescent materials. 4,689,172, 8-25-87, Cl. 252-301.360.

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Czenczy, George: *See—*
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Czerepinski, Ralph G.; and Gunderman, Roland E., to Dow Chemical Company, The. Emulsion polymerized sec-butyl acrylate latexes suitable for use as pressure sensitive adhesives. 4,713,412, 12-15-87, Cl. 524-833.000.

Czermak, Ladislaus: *See—*
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Czernakowski, Waldemar; Wetter, Hermann; and Felsch, Bernhard, to Romer Britax Autogurte GmbH; and ADAC e.V. Child-passenger safety restraint. 4,653,809, 3-31-87, Cl. 297-487.000.

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Czerniak, Marian K. E. Self-propelled waterborne vessel. 4,661,075, 4-28-87, Cl. 440-69.000.

Czerniejewski, Frank R., to Automation Intelligence, Inc. Learned part system. 4,704,694, 11-3-87, Cl. 364-513.000.

Czich, Erhard; Drott, Peter; and Haefner, Horst, to Alfred Teves GmbH. Dust cover for cylindrical elements of the type for use in a pin guide arrangement of a spot-type disc brake. 4,709,789, 12-1-87, Cl. 188-73.440.

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Czubernat, Donald A.; and Brozowski, Alan C. Retractable booster cable device. 4,653,833, 3-31-87, Cl. 339-119.00C.

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D B Industries, Inc.: *See—*
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D and C Ltd.: *See—*
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D. Drukker & Zn. N.V.: *See—*
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Seal, Michael; and Berkhout, Franciscus M., 4,699,142, Cl. 128-339.000.
van Bennekom, Peter K.; and Seal, Michael, 4,705,933, Cl. 219-121.0LC.

D.E.A. Digital Electronic Automation S.p.A.: *See—*
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D.M.E.: *See—*
Letellier, Michel, 4,676,992, Cl. 427-9.000.

D-Mark, Inc.: *See—*
Kasmark, James W., Jr.; Dooley, Myron L.; and Jones, Arthur H., 4,699,681, Cl. 156-264.000.

D. Mulock-Bentley & Associates (Proprietary) Limited: *See—*
Mulock-Bentley, Desmond, 4,657,072, Cl. 165-153.000.

D. O. Industries, Inc.: *See—*
Mindell, Marvin I., 4,707,092, Cl. 353-109.000.

D. O. Weaver and Company: *See—*
Weaver, David O., 4,658,826, Cl. 128-640.000.

D.R.I.M. Limited: *See—*
Langham, Richard J., 4,663,204, Cl. 428-12.000.
Langham, Richard J., 4,714,285, Cl. 292-163.000.

D.R.O.P.I.C.: *See—*
Lormeau, Jean-Claude; and Choay, Jean, 4,686,288, Cl. 536-21.000.

D. S. Scanner Co., Ltd.: *See—*
Terada, Shinichi; Masuda, Kozo; and Adachi, Yoshimitsu, 4,635,131, Cl. 358-296.000.

D-Tec, Inc.: *See—*
Parsons, Norman H., 4,704,896, Cl. 73-37.900.

D.V.T. Buro fur Anwendung Deutscher Verfahrenstechnik H. Morsy: *See—*
Nasser, Gamal E. D., 4,636,283, Cl. 202-173.000.

D. W. Electrochemicals Ltd.: *See—*
Wright, William M. D., 4,696,832, Cl. 427-58.000.

D. W. Zimmerman Mfg., Inc.: *See—*
Conboy, Stewart J.; and Kish, Robert J., 4,708,574, Cl. 414-591.000.
Fox, Albert D.; and Owen, Douglas B., 4,674,959, Cl. 417-244.000.

Daalmans, Gabriel M., to Siemens Aktiengesellschaft. Method for making a superconducting gradiometer having a three-dimensional structure and associated connecting lines for a device for measuring weak magnetic fields. 4,694,567, 9-22-87, Cl. 29-599.000.

Dab-O-Matic Corp.: *See—*
Schwartzman, Gilbert, 4,693,623, Cl. 401-206.000.

Dabat, Robert; and Jamet, Claude, to Commissariat a l'Energie Atomique. Machine permitting the remote closure of drums. 4,639,178, 1-27-87, Cl. 413-26.000.

Dabelstein, Klaus; and Skrobol, Christian, to Erwin Sick GmbH Optik-Elektronik. Light scanning device for determining the condition of a surface with a light concentrator. 4,693,601, 9-15-87, Cl. 356-237.000.

Daberkoe, Charles W., to General Motors Corporation. Piloted wheel assembly. 4,699,431, 10-13-87, Cl. 301-1.000.

- Dabernard, Pierre: *See*—
  - Lorenzelli, Robert; Dabernard, Pierre; and Maire, Christian, 4,643,328, Cl. 220-256.000.
- Dai, Shmuel, to Personal Products Company. Crosslinked carboxyl polyelectrolytes and method of making same. 4,645,789, 2-24-87, Cl. 524-379.000.
- Dabich, Kathyleen A. Pit cover assembly with flood protection. 4,694,619, 9-22-87, Cl. 52-20.000.
- Dabisch, Wolfgang: *See*—
  - Dabisch, Wolfgang H.; Kung, Peter; Muller, Siegfried R.; and Narayanan, Krishnamoorthy, 4,695,528, Cl. 430-290.000.
- Dabisch, Wolfgang H.; Kung, Peter; Muller, Siegfried R.; and Narayanan, Krishnamoorthy, to Dabisch, Wolfgang. Process for forming images using body with reversible fixable and temperature-variable light extinctions. 4,695,528, 9-22-87, Cl. 430-290.000.
- Dabkowski, Michael J.; and Malladi, Madhava, to Mobil Oil Corporation. Delayed coking process. 4,661,241, 4-28-87, Cl. 208-131.000.
- Dablch, Joseph H.; and Findlay, Raymond D. Pipe-type cable system with electromagnetic field shaper. 4,639,544, 1-27-87, Cl. 174-32.000.
- Dabringhaus, Volker; Dietz, Gunter; Wegel, Peter; Bowman, H. David; Korber, Jurgen; and Seidl, Horst, to Gebr. Happich GmbH. Tiltable ashtray suitable for automotive vehicles. 4,676,544, 6-30-87, Cl. 296-37.900.
- Dabrowski, Henry. Reeling mandrel for winding metal strips. 4,695,008, 9-22-87, Cl. 242-68.500.
- Dabrowski, Roman; Dziaduszek, Jerzy; Szulc, Jaroslaw; Witkiewicz, Zygfryd; Stolarz, Zofia; Kenig, Krystyna; and Adamska, Gabriela, to Wojskowa Akademia Techniczna. Liquid crystalline isothiocyanates with dioxane ring and liquid crystalline admixtures containing same. 4,676,924, 6-30-87, Cl. 252-299.610.
- DAC Engineering Co., Ltd.: *See*—
  - Marda, Shuichi, 4,668,095, Cl. 356-400.000.
- Dacey, Ernest A., Jr., to Utica Enterprises, Incorporated. Single station hemming tooling. 4,706,489, 11-17-87, Cl. 72-450.000.
- Dach, Michael M., to Texaco Inc. High temperature furnace. 4,637,823, 1-20-87, Cl. 48-77.000.
- D'Acierno, John P.: *See*—
  - Vogt, Frederich H.; Bunk, Stanley A.; and D'Acierno, John P., 4,700,636, Cl. 110-165.00A.
- Dack, Stuart W.: *See*—
  - Yates, David E.; and Dack, Stuart W., 4,710,248, Cl. 149-21.000.
- Dackow, Paul N., to RCA Corporation. System for determining time duration of angular rotation. 4,642,772, 2-10-87, Cl. 364-431.060.
- Dacomed Corporation: *See*—
  - Walsh, John J., 4,633,864, Cl. 128-207.150.
- Dacor Corporation: *See*—
  - Rasocha, Stanley, 4,664,109, Cl. 128-207.140.
- DaCosta, Tony R. Axially actuated hose clamp. 4,675,949, 6-30-87, Cl. 24-269.000.
- Da Costa Viera, David: *See*—
  - Carossi, Jean-Claude; Da Costa Viera, David; and Thirion, Claude, 4,700,067, Cl. 250-380.000.
- Dactek International, Inc.: *See*—
  - Meadows, Louis B.; and Diamond, Arthur S., 4,699,077, Cl. 118-31.500.
- Dada, Abdul G.: *See*—
  - Linz, David G.; Grier, Robert K., Jr.; Wetzel, Jennifer A.; Dada, Abdul G.; and Connolly, John D., 4,698,214, Cl. 423-260.000.
- D'Addio, Egidio; Galati, Gaspare; and Giaccari, Ennio, to Selenia - Industrie Elettroniche Associate S.p.A. Adaptive MTD digital processor for surveillance radar. 4,636,793, 1-13-87, Cl. 342-162.000.
- Dadley, David A.; and Haskins, Peter J., to Royal Ordnance plc. Linear cutting charge. 4,693,181, 9-15-87, Cl. 102-307.000.
- Dadpey, Habib; and Shero, David J., to Westinghouse Electric Corp. Induction motor control apparatus and method for restart when rotating in shutdown. 4,684,868, 8-4-87, Cl. 318-802.000.
- Dadpey, Habib; Merlino, Paul J.; and Shero, David J., to Westinghouse Electric Corp. Induction motor regenerative brake control apparatus and method. 4,697,130, 9-29-87, Cl. 318-760.000.
- Dadpey, Habib: *See*—
  - Shero, David J.; Dadpey, Habib; and Magee, C. Scott, 4,673,859, Cl. 318-810.000.
  - Shero, David J.; and Dadpey, Habib, 4,695,783, Cl. 318-808.000.
- DAE-AH Human Engineering Inc.: *See*—
  - Yeum, Hee-Sung, 4,696,516, Cl. 297-458.000.
- Dae Woo Electronics Co., Ltd.: *See*—
  - Song, Seob S., 4,646,531, Cl. 62-187.000.
- Daedalus Industries, Inc.: *See*—
  - Bergstrom, Darryl K., 4,653,717, Cl. 248-664.000.
- Daemer, Richard J.; Feinstone, Stephen M.; Gust, Ian D.; and Purcell, Robert H., to United States of America, Health & Human Services. Isolation of hepatitis A virus strain HM-175. 4,636,469, 1-13-87, Cl. 435-237.000.
- Daems, Eddie R.: *See*—
  - Leenders, Luc H.; Daems, Eddie R.; and Van den Bogaert, Jan A., 4,710,444, Cl. 430-237.000.
- Daems, Edie R.: *See*—
  - Leenders, Luc H.; Ramon, Charles L.; and Daems, Edie R., 4,701,401, Cl. 430-257.000.
- Daeschel, Mark A.; McFeeters, Roger F.; Fleming, Henry P.; Klaenhammer, Todd R.; and Sanozky, Rosemary B., to United States of America, Agriculture. Lactic acid bacteria which do not decarboxylate malic acid and fermentation therewith. 4,666,849, 5-19-87, Cl. 435-253.000.
- Daetwyler, Jurg, to Mettler Instrumente AG. Drying oven including shuttle transporting means. 4,651,441, 3-24-87, Cl. 34-202.000.
- Daewoo Heavy Industries Ltd.: *See*—
  - Hyun, Choi J.; Chul, Lee J.; and Bum, Choi W., 4,691,106, C 250-349.000.
- Daffini, Jean-Pierre: *See*—
  - Tisserand, Philippe; and Daffini, Jean-Pierre, 4,633,811, C 119-14.040.
- Dafnoulelis, Christos V.: *See*—
  - Dawson, Thomas F.; Ewing, Paul C., Jr.; Dafnoulelis, Christos V. and Martin, Jacob H., 4,648,212, Cl. 51-165.00R.
- Daftari, Rohit M.: *See*—
  - Burnett, James M.; Daftari, Rohit M.; and Reyes, Randolph V 4,668,038, Cl. 339-94.00M.
- Dagard, Philippe; and Cohen, Thierry V., to Framatome & Cie. Proce for extracting an acid, more especially boric acid, from a weak ionized aqueous solution. 4,675,090, 6-23-87, Cl. 204-182.300.
- Dagard, Philippe, to Framatome & Cie. Ultrafiltration device pressurized water nuclear reactor. 4,684,494, 8-4-87, Cl. 376-313.00
- Dagard, Philippe; and Riviere, Jacques, to Framatome. Ultrafiltratio circuit for the primary cooling fluid of a pressurized-water nucle reactor. 4,699,755, 10-13-87, Cl. 252-631.000.
- D'Agaro, Raymond. Three-in-one motor vehicle air conditioning sy tem. 4,674,294, 6-23-87, Cl. 62-243.000.
- Dagenais, Georges; Michaud, Ghislain; and Presseau, Michel, to Le Epiciers Unis Metro-Richelieu Inc. Method and apparatus for au matically packing sausage links. 4,633,652, 1-6-87, Cl. 53-444.00
- Dagenais, J. Roger; Dagenais, Jacques; and Poirier, Paul. Absorbe bed pad. 4,664,959, 5-12-87, Cl. 428-74.000.
- Dagenais, Jacques: *See*—
  - Dagenais, J. Roger; Dagenais, Jacques; and Poirier, Paul, 4,664,95 Cl. 428-74.000.
- Dagenais, Robert. Folding closure assembly. 4,660,613, 4-28-87, C 160-199.000.
- Daggett, Pierre-Marc; and Simione, Frank P., to American Type Cu ture Collection. Method of culturing freeze-dried microorganism 4,672,037, 6-9-87, Cl. 435-253.000.
- Daghe, Joseph L.; Humes, Dennis W.; Stanley, Mervin D.; and Ros Gary L., to Mueller Co. Operating wrench for tamperproof hydra 4,690,019, 9-1-87, Cl. 81-99.000.
- Daghe, Joseph L.: *See*—
  - Hauffe, William L., deceased; and Daghe, Joseph L., 4,699,168, C 137-385.000.
- Daghighian, Hamid, to Motorola, Inc. D/A converter. 4,656,46 4-7-87, Cl. 340-347.0DA.
- Daglish, Alan R.; Foster, Mark H.; and Marwick, William F., to Alc International Limited. Metal forming lubricant. 4,687,587, 8-18-87 Cl. 252-11.000.
- Dagna, Giandomenico, to Ing. C. Olivetti & C., S.p.A. High speed in jet printer with improved electrical connection to the nozzle 4,679,059, 7-7-87, Cl. 346-140.00R.
- Dagorn, Christian: *See*—
  - Lassaux, Jean; and Dagorn, Christian, 4,679,230, Cl. 379-411.00.
- D'Agosta, Nino. Exercise and sporting device. 4,708,340, 11-24-87, C 272-117.000.
- d'Agostino, Guy; Dhainaut, André; Kettler, Daniel G. A.; and Leclerc Henry R., to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation "S.N.E.C.M.A.". Compound seal with pressu equalization aperture. 4,681,327, 7-21-87, Cl. 277-29.000.
- D'Agostino, John A.; and Lillie, Thomas J., to United States of America, Army. Battlefield environment thermal analyzer. 4,634,29 1-6-87, Cl. 374-124.000.
- D'Agostino, Nicholas, to National Tool & Manufacturing Co. In Quick-switch mold set with clamp means. 4,714,421, 12-22-87, C 425-192.00R.
- D'Agosto, Nicholas A., III; and Rubinstein, Alan S., to Dictaphone Corporation. Remote terminal for use with central dictation appa tus. 4,658,097, 4-14-87, Cl. 379-75.000.
- Dahan, Noel; Guilhaumou, Nicole; and Couty, Rene W., to Centre National de la Recherche Scientifique. Stage assembly for thermodynamic study under a microscope. 4,707,086, 11-17-87, Cl. 350-536.00
- Dahan, Paul C., to Mobil Oil Corporation. Device for rescuing personnel from waters. 4,678,446, 7-7-87, Cl. 441-80.000.
- Dahbura, Anton T.; and Sabnani, Krishan K., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Method fo generating verification tests. 4,692,921, 9-8-87, Cl. 371-27.000.
- Daher, Youssef H. Buttressing device usable in a vertebral prosthes 4,657,550, 4-14-87, Cl. 623-17.000.
- Dahl, Erik Q.; Vatland, Arnfinn; and Vegge, Olaf T., to Elkem a/ Baking furnace for electrodes. 4,678,434, 7-7-87, Cl. 432-242.00
- Dahl, Ernest A. Storage and security system for cassette-like objec 4,643,496, 2-17-87, Cl. 312-299.000.
- Dahl, Gerd H.; and Simkin, Joseph, to Pennwalt Corporation. Microencapsulated pyrethroids. 4,670,246, 6-2-87, Cl. 424-419.000.
- Dahl, Hans K., to Sulzer-Escher Wyss GmbH. Hydraulic pressing dev with an adjustable circumferential press zone. 4,705,602, 11-10-87, C 162-358.000.
- Dahl, John H.: *See*—
  - Hulsizer, Philip N.; and Dahl, John H., 4,716,271, Cl. 219-125.1
- Dahl, Michael A.: *See*—
  - Mills, John E.; and Dahl, Michael A., 4,704,560, Cl. 315-169.30
- Dahl, Philip I.: *See*—
  - Benthin, Morten; Dahl, Philip I.; Gennser, Gerhard M.; and Lindstrom, Kjell O. T., 4,660,564, Cl. 128-660.000.
- Dahl, Randy L., to Motorola Inc. Modulation circuit for a light emitting device. 4,659,967, 4-21-87, Cl. 315-307.000.
- Dahl, Randy L., to Motorola, Inc. Turbine alternator with a conta clear optical path. 4,692,631, 9-8-87, Cl. 290-55.000.

, Randy L., to Mesosota, Inc. Target detection in aerosols using ive optical sensors and method of use thereof. 4,709,142, 11-24-87, 250-221.000

, Thomas R., and Spector, George. Geodesic mold house 51,478, 3-24-87, Cl. 52-2.000

back, Carl M. O.: See—
  Axelson, Bengt I.; Brattsand, Ralph L.; Dahlback, Carl M. O.; Kallstrom, Leif A.; and Trofast, Jan W., 4,693,999, Cl 514-174.000

lberg, Bengt A. G.; Jeppsson, Jan-Bertil; Ohlsson, Lars I.; and monson, Tord B., to Gambro Lundia AB. Apparatus for the easurement of fluid flow. 4,650,458, 3-17-87, Cl. 604-5.000

lberg, Frank L.: See—
  Fullilove, Tom P., and Dahlberg, Frank L., 4,685,692, Cl 280-234.000

lberg, Kurt, to Aktiebolaget Bofors. Method of combating different pes of air targets. 4,712,181, 12-8-87, Cl. 364-423.000

lberg, Larry J.: See—
  Brackett, John E.; and Dahlberg, Larry J., 4,697,376, Cl. 43-23.000

lberg, Rolf, and Dahlberg, Tomas. Printed circuit board. 4,675,784, 23-87, Cl. 361-386.000

lberg, Tomas: See—
  Dahlberg, Rolf, and Dahlberg, Tomas. 4,675,784, Cl. 361-386.000

lby, Larry C., to S. C. Johnson & Son, Inc. Apparatus and method r segregating parts. 4,676,380, 6-30-87, Cl. 209-616.000

le, David P.: See—
  Adams, Gary V.; Dahle, David P.; and Kirchoff, George, 4,699,400, Cl. 280-731.000

le Design Ltd.: See—
  Lovelock, Richard K., and Smith, Clive S., 4,674,637, Cl. 211-46.000

le, Gerald W. H., to Wilhelm Dahle Buro- und Zeichengeratefab- k. Paper shredder and method of making the same. 4,688,730, 25-87, Cl. 241-166.000

le, Leland K., and Montgomery, Erick P., to Campbell Soup Company. Shelf or refrigerator stable raw alimentary paste. 659,576, 4-21-87, Cl. 426-324.000

lem, Wolfgang, to ZF-Herion-Systemtechnik GmbH. Progres- ively movable holding device. 4,677,936, 7-7-87, Cl. 118-307.000

len, Gustav L., and Ryberg, Nils A. Concrete-filled structural tube with cantilevers, particularly for balcony floors. 4,660,331, 4-28-87, Cl. 52-73.000

hlen, Rolf: See—
  Faktus, Eskil, and Dahlen, Rolf. 4,710,063, Cl. 405-269.000

hler, Manfred: See—
  Jahnen, Ludwig, and Dahler, Manfred, 4,703,857, Cl. 206-503.000

hler, Peter; Neidhart, Peter; Sadek, Kadry; and Stemmler, Herbert, o BBC Brown, Boveri & Company, Limited. Method and compen- sating device for compensating current oscillations. 4,639,846, 1-27-87, Cl. 363-39.000

hlerud, Ole C., to Tandberg Data A/S. Method and arrangement for positioning a magnetic head to various tracks of a magnetic tape. 4,679,104, 7-7-87, Cl. 360-78.000

hlgren, Richard M.: See—
  Oh, Young S.; Dahlgren, Richard M.; and Russell, Glen D., 4,704,272, Cl. 424-70.000

hlgren, Sven-Eric; Ekman, Douglas S.; and Ericsson, Claes E., to Boliden Aktiebolag. Granular product containing magnesium oxide as its main constituent. 4,686,105, 8-11-87, Cl. 426-74.000

ahlhaus, Peter: See—
  Creutz, Walter; Dahlhaus, Peter; and Hofmann, Heinz, 4,714,195, Cl. 238-349.000

ahlin, Erik B.; Kaiser, Sidney V.; Young, Alan M.; and Levien, Andrew K., to Exac Corporation. Apparatus for mass flow rate and density measurement. 4,660,421, 4-28-87, Cl. 73-861.380

ahlin, Erik B., to Exac Corporation. Apparatus for mass flow rate and density measurement. 4,711,132, 12-8-87, Cl. 73-861.380

ahlin, Per O., to Cellexfabrikerna AB. Device for making porous concrete. 4,637,731, 1-20-87, Cl. 366-64.000

ahlinger, Dietrich: See—
  Thorn, Gernot; Thomas, Friedrich-Werner; Sturmer, Johann; Dahlinger, Dietrich; Hubertus, Guido; and Sperzel, Wolfgang, 4,700,281, Cl. 363-37.000

Dahlitz, Ronald R. Patch for muzzle loading rifles. 4,702,078, 10-27-87, Cl. 42-90.000

Dahlke, Christian: See—
  Bronowski, Helmut; and Dahlke, Christian, 4,708,590, Cl. 415-219.00C
  Bronowski, Helmut; and Dahlke, Christian, 4,715,781, Cl. 415-219.00C

Dahlke, Hannelore: See—
  Grutte, Friedrich-Karl; Petzoid, Heinrich; Walter, Ulrich; Bogs, Gunhild; Domeratzky, Joachim; Gartner, Helmut; Schulze, Jurgen; Zanft, Hans-Joachim; Pulz, Otto; Luft, Christa; Muller, Walheide; Wolk, Petra; Dahlke, Hannelore; and Volkmer, Margret, 4,692,340, Cl. 426-72.000

Dahlman, Willis E.: See—
  Amundsen, Louis R.; Patterson, Robert P.; Baxter, Tanya L.; Scudder, Glenn N.; Duescher, Wayne O.; Dahlman, Willis E.; Schukar, Gary W.; and Steinback, Clarence I., 4,702,108, Cl 73-379.000

Dahlquist, Art: See—
  Peters, Douglas C., and Hansen, Charles S., 4,709,955, Cl 296-3.000

Dahlquist, Brian J., to Synergy Computer Graphics Corporation. Contrast control for an electrostatic printer. 4,672,399, 6-9-87, Cl 346-160.000

Dahlquist, Hakan, and Kaufmann, Herbert, to ASEA Aktiebolag. Robot wrist. 4,690,012, 9-1-87, Cl. 74-479.000

Dahlquist, Hakan, to ASEA Aktiebolag. Robot wrist. 4,703,157, 10-27-87, Cl. 219-121.0LU

Dahlquist, John; Goss, John; and Wennerberg, Gunnar, to Measurex Corporation. System and process for measuring and correcting the values of a parameter of a sheet material. 4,678,915, 7-7-87, Cl. 250-358.100

Dahlquist, Rohland A., to Eaton Corporation. Gerotor motor and improved lubrication flow circuit therefor. 4,645,438, 2-24-87, Cl. 418-61.00B

Dahlstrom, David K.; Fife, Merrill E.; and Judy, Charles R., to Allied Corporation. Flexural disk transducer. 4,709,361, 11-24-87, Cl. 367-165.000

Dahm, Christian: See—
  Tittizer, Gabriel; Junghans, Ewald; Bestenreiner, Georg; and Dahm, Christian, 4,710,034, Cl. 384-110.000

Dahm, Dennis R.: See—
  McKay, Robert S., and Dahm, Dennis R., 4,639,236, Cl. 446-430.000

Dahm, Horst: See—
  Huta, Lothar; Dahm, Horst; Moetting, Goetz; and Haeberle, Fritz, 4,703,398, Cl. 362-61.000

Dahm, Manfred; Jabs, Gert; and Wawra, Georg, to Bayer Aktiengesellschaft. Continuous production of microcapsule dispersions. 4,668,580, 5-26-87, Cl. 428-402.210

Dahm, Thomas J., to Astron Research and Engineering. Wave gun. 4,658,699, 4-21-87, Cl. 89-8.000

Dahm, Wolfram, to Daimler-Benz Aktiengesellschaft. Tensioning device. 4,702,727, 10-27-87, Cl. 474-101.000

Dahmen, Jan; Frejd, Torbjorn; Magnusson, Goran; and Noori, Ghazi, to Svenska Sockerfabriks AB. Glycosides. 4,675,392, 6-23-87, Cl. 536-17.600

Dahmen, Kurt; Kuster, Erich; Mertens, Richard; and Brehm, Helmut, to Chemische Fabrik Stockhausen GmbH. Process for the production of N-substituted α,β-unsaturated carboxylic acid amides. 4,644,083, 2-17-87, Cl. 564-205.000

Dahmen, Kurt: See—
  Barthell, Eduard; Capelle, Anthony; Chmelir, Miroslav; and Dahmen, Kurt, 4,663,491, Cl. 585-3.000
  Chmelir, Miroslav; Dahmen, Kurt; Hoffman, Georg; and Werner, Georg, 4,693,713, Cl. 604-368.000

Dahn, Stig. Method and apparatus for detecting heterogeneities in pipe insulation with X-rays. 4,644,574, 2-17-87, Cl. 378-58.000

Dahne, Claus, and Gross, Daniel, to Kurabo Industries Ltd. Spectrophotometric method and apparatus for the non-invasive. 4,655,225, 4-7-87, Cl. 128-633.000

Dahne, Claus: See—
  Ringrose, Anthony; Sutherland, Ranald M.; Dahne, Claus; and Place, John F., 4,668,636, Cl. 436-164.000

Dahnert, Dean L., to Spacesaver Corporation. Control system for vertical storage equipment. 4,650,264, 3-17-87, Cl. 312-268.000

Dahod, Samun K., and Siuta-Mangano, Patricia, to Stauffer Chemical Company. Resolution of racemic mixtures of aliphatic acid esters. 4,668,628, 5-26-87, Cl. 435-135.000

Dai-chi Kogyuo Seiyaku Co., Ltd.: See—
  Yokota, Kinya; Ichihara, Akinobu; Tanakamaru, Yasuharu; and Takahashi, Yoshio, 4,666,523, Cl. 106-213.000

Dai, Eugene P.: See—
  Lewis, Paul H.; Dai, Eugene P.; and Holst, Edward H., 4,668,655, Cl. 502-304.000

Dai-Ichi Kogyo Seiyaku Co., Ltd.: See—
  Asano, Hideharu, and Senda, Hisakazu, 4,697,008, Cl. 536-89.000
  Fujita, Takeshi; and Kataoka, Hironori, 4,711,734, Cl. 252-52.00A
  Maki, Hirohisa; and Matsuo, Katsuaki, 4,680,203, Cl. 427-393.600
  Mori, Shigeo; and Matsumoto, Junichiro, 4,703,114, Cl. 536-4.100
  Tanaka, Teruo; Tanaka, Teruya; and Kitamura, Masato, 4,695,484, Cl. 427-245.000
  Yada, Akira; Matsumoto, Shusaku; Kawamori, Yoshihiro; Saito, Takao; Nishiyama, Tadashi; and Adachi, Yoshitugu, 4,647,598, Cl. 522-3.000
  Yada, Akira; Matsumoto, Shusaku; Kawamori, Yoshihiro; Saito, Takao; Nishiyama, Tadashi; and Adachi, Yoshitugu, 4,690,788, Cl. 264-22.000

Dai-Ichi Seiko Co., Ltd.: See—
  Kashimura, Noritake, and Saitoh, Hiroaki, 4,636,034, Cl. 350-96.210

Dai-Ichi Seiko Kabushiki Kaisha: See—
  Fukunaga, Masami; and Yamaguchi, Tomoyoshi, 4,691,975, Cl. 439-266.000
  Kobayashi, Shunsuke; Matsuyama, Yoshihiko; and Koutake, Masayoshi, 4,701,024, Cl. 350-331.00R
  Miyashita, Hidekazu, and Maruyama, Ryoji, 4,676,589, Cl. 350-96.210

Dai Nippon Insatsu Kabushiki Kaisha: See—
  Ando, Michihiro; Kawajiri, Ryoichi; and Uematsu, Hiroshi, 4,669,640, Cl. 222-541.000
  Hanamoto, Keiji; and Takagi, Fumio, 4,639,341, Cl. 264-40.100
  Harima, Hiroshi; and Nishida, Hiroshi, 4,677,680, Cl. 382-1.000
  Kobayashi, Yuji, and Takahashi, Norio, 4,673,807, Cl. 250-214.0AG
  Kutsukake, Masaki; Akada, Masanori; and Yamauchi, Mineo, 4,650,494, Cl. 8-471.000

  - Mizoguchi, Yoshihiko; Sekine, Keiichi; Komiya, Yasutoyo; and Nishida, Yoshio, 4,657,142, Cl. 206-606.000.
  - Nozaka, Yoshiki, 4,636,276, Cl. 156-353.000.
  - Nozaka, Yoshiki, 4,655,865, Cl. 156-157.000.
  - Oguchi, Kiyoshi, 4,649,099, Cl. 430-323.000.
  - Takeda, Mitsuru; and Kuramochi, Wataru, 4,673,626, Cl. 430-14.000.
  - Takeuchi, Hideo; Kobayashi, Michiaki; Yoritsune, Osamu; and Matsumoto, Takemasa, 4,694,749, Cl. 101-426.000.
  - Takeuchi, Hideo; Kobayashi, Michiaki; and Shibasaki, Makoto, 4,703,691, Cl. 101-365.000.
  - Taniguchi, Yukio, 4,677,285, Cl. 235-488.000.
- Dai Nippon Toryo Co., Ltd.: *See—*
  - Sakakibara, Takao; Toyoda, Tsunehiko; and Nagashima, Yoshihisa, 4,681,712, Cl. 264-24.000.
- Dai, Shenghong A., to Dow Chemical Company, The. Azetidinedione urethanes. 4,642,342, 2-10-87, Cl. 540-356.000.
- Dai, Shenghong A.; and Sherwood, Philip W., to Dow Chemical Company, The. Azetidinedione compounds as crosslinkers for electrodeposited coatings. 4,683,302, 7-28-87, Cl. 540-356.000.
- Dai, Shenghong A., to Dow Chemical Company, The. Nitro substituted diphenyl ethers and derivatives thereof. 4,689,434, 8-25-87, Cl. 568-586.000.
- Dai, Shenghong A., to Dow Chemical Company, The. Polyesteramide from hydroxy phenyl-isopropyl-amino diphenyl ether. 4,709,004, 11-24-87, Cl. 528-185.000.
- Dai, Xing-yi: *See—*
  - Zhang, Yun-xiang; Dai, Xing-yi; Lu, Zhi-kang; and Zeng, Sen, 4,678,847, Cl. 526-206.000.
- Daicel Chemical Industries, Ltd.: *See—*
  - Hattori, Makoto; and Yamanaka, Shoji, 4,669,830, Cl. 350-357.000.
  - Hottori, Makoto; and Yamanaka, Shoji, 4,707,283, Cl. 252-25.000.
  - Imai, Tatsuhiko; and Kawasawa, Masuo, 4,707,510, Cl. 524-281.000.
  - Inagaki, Hiroshi; Miyamoto, Takeaki; Ito, Hiraku; and Shibata, Tohru, 4,708,951, Cl. 514-57.000.
  - Innami, Satoshi, and Fukui, Yoshitaka, 4,659,388, Cl. 106-163.100.
  - Ishii, Kiyoshi, 4,704,205, Cl. 210-323.200.
  - Ishii, Kunio; and Shibata, Tohru, 4,683,341, Cl. 568-366.000.
  - Itoh, Masanori; and Hayashi, Fumihiko, 4,702,958, Cl. 428-323.000.
  - Kamei, Noboru; Ikeda, Kinjiro; Aoyama, Keishi; and Hamano, Seitaro, 4,639,294, Cl. 203-88.000.
  - Koga, Kunio; Sasaki, Yukihiro; and Niwa, Hirotoshi, 4,658,057, Cl. 562-608.000.
  - Mitani, Tadayuki; Endo, Mamoru; and Hiramoto, Takashi, 4,698,441, Cl. 562-531.000.
  - Motoi, Masatoshi; Toga, Yuzo; Okamoto, Ichiro; and Kanno, Tatsuya, 4,672,141, Cl. 568-613.000.
  - Murabayashi, Katuyoshi, 4,716,198, Cl. 525-92.000.
  - Murai, Takaaki; Watanabe, Shoji; Inoue, Kimio; Isobe, Tomohisa; Nakashima, Naoki; Miho, Takuya; and Ikemoto, Yoshiyuki, 4,663,429, Cl. 528-355.000.
  - Okitsu, Kiyoshi, 4,701,483, Cl. 523-500.000.
  - Okitu, Kiyoshi; and Watanabe, Shiogi, 4,663,428, Cl. 528-324.000.
  - Sagami, Yosuke; Yamamoto, Akira; Watanabe, Shoji; Isobe, Tomohisa; and Funato, Susumu, 4,703,338, Cl. 357-72.000.
  - Shibata, Tohru, and Okamoto, Ichiro, 4,714,555, Cl. 210-635.000.
  - Takahashi, Shigeyuki; Uchida, Manabu; and Yamazaki, Kazuhiro, 4,638,057, Cl. 536-76.000.
  - Tanaka, Kazunobu; and Kobayashi, Michio, 4,644,034, Cl. 525-68.000.
  - Tanaka, Kazunobu; and Mori, Kyozo, 4,678,602, Cl. 252-513.000.
  - Tsuda, Kenji; and Namikoshi, Hajime, 4,707,187, Cl. 106-93.000.
  - Tsuda, Kenji; Matsumoto, Nobuyoshi; and Tsukagawa, Masahide, 4,707,188, Cl. 106-93.000.
  - Yamane, Kunio; Ohmura, Kazutaka; Yamazaki, Hisato; and Shiroza, Teruaki, 4,690,898, Cl. 435-320.000.
  - Yamazaki, Kazuhiro; and Uchida, Manabu, 4,663,447, Cl. 536-76.000.
  - Yanami, Tetsuji; Murai, Yoshiyuji; and Oshima, Ryoichi, 4,683,297, Cl. 536-18.600.
  - Yuki, Heimei; and Okamoto, Yoshio, 4,681,919, Cl. 525-292.000.
  - Yuki, Yoichi; Noyori, Ryoji; and Hayashi, Masahiko, 4,666,633, Cl. 260-395.000.
- Daido Kogyo Co., Ltd.: *See—*
  - Honda, Shoichi, 4,666,421, Cl. 474-242.000.
- Daido Kogyo Kabushiki Kaisha: *See—*
  - Honda, Shoichi, 4,643,704, Cl. 474-245.000.
- Daido Metal Company Ltd.: *See—*
  - Iijima, Yoshio, 4,688,808, Cl. 277-223.000.
  - Mori, Sanae, 4,655,615, Cl. 384-286.000.
  - Mori, Sanae, 4,655,944, Cl. 252-12.200.
  - Mori, Sanae, 4,663,857, Cl. 33-517.000.
  - Mori, Sanae, 4,703,076, Cl. 524-420.000.
  - Muto, Takashi, 4,680,161, Cl. 419-3.000.
- Daido Steel Company Limited: *See—*
  - Kato, Tetsuo; Isobe, Susumu; and Matsunaga, Kenkichi, 4,650,645, Cl. 420-111.000.
- Daido Tokushuko Kabushiki Kaisha: *See—*
  - Furukawa, Toshiharu; Shimura, Susumu; Takai, Fumio; Sano, Norio; and Ishida, Tomonobu, 4,697,532, Cl. 110-346.000.
  - Hayashi, Kiyohide; Sugiura, Saburo; and Demukai, Noboru, 4,691,899, Cl. 266-140.000.
  - Inamori, Hiroo; Nasuda, Sigeyuki; Morimoto, Yoshio; and Haruna, Takayuki, 4,691,874, Cl. 242-80.000.
  - Iriyama, Shozo; and Abe, Mitsuo, 4,694,508, Cl. 2-21.000.
  - Nagasaka, Hiroyasu; Kamidaira, Kunio; Ino, Hiroshi; and Utsuno, Mitsuo, 4,636,093, Cl. 374-186.000.
  - Sugiura, Saburo; Kanada, Kenji; Demukai, Noboru; and Okamoto, Tetsuo, 4,706,258, Cl. 373-2.000.
  - Yanagiya, Toshio; Isokawa, Kenji; Ohta, Hisashi; and Inaba, Hideaki, 4,634,573, Cl. 420-127.000.
- Daido, Toshihiko; Matsubara, Hideo; and Hirakushi, Shuzo, to Koyo Seiko Kabushiki Kaisha; and Koyo Jidoki Kabushiki Kaisha. Apparatus for controlling a steering force of a handle in automobiles. 4,640,380, 2-3-87, Cl. 180-141.000.
- Daido, Toshihiko, to Koyo Seiko Co., Ltd. Steering power control system in electronically controlled steering system. 4,690,233, 9-1-87, Cl. 180-142.000.
- Daido, Yoshimasa: *See—*
  - Fukuda, Eisuke; Takeda, Yukio; Daido, Yoshimasa; Nakamura, Hiroshi; Sasaki, Susumu; and Takenaka, Sadao, 4,665,532, Cl. 375-19.000.
- Daidoji, Tuneo: *See—*
  - Kishi, Ken-ichi; Tuzita, Kenzi; Daidoji, Tuneo; Okuyama, Yuki; and Kimura, Kiyoshi, 4,675,268, Cl. 430-126.000.
- Daidotokushuko Kabushikikaisha: *See—*
  - Hanada, Shigeru; Inagaki, Etsuo; and Nakata, Hiroya, 4,689,800, Cl. 373-104.000.
  - Shimomoto, Yasunobu, 4,638,488, Cl. 373-22.000.
- Daidousanso Co., Ltd.: *See—*
  - Yoshino, Akira, 4,668,260, Cl. 62-11.000.
  - Yoshino, Akira, 4,671,813, Cl. 62-32.000.
  - Yoshino, Akira, 4,698,079, Cl. 62-11.000.
- Daie, Hedayat; Marsh, Charles H.; and Turner, Joe L., to ITT Corporation. Call progress tone system. 4,669,110, 5-26-87, Cl. 379-165.000.
- D'Aiello, Frank J., Jr., to Ohio Grain Company, The. Method of producing veal and animal feed therefor. 4,673,576, 6-16-87, Cl. 426-2.000.
- D'Aiello, Robert V.: *See—*
  - Catalano, Anthony W.; D'Aiello, Robert V.; Brewer, John A.; and Podlesny, Richard J., 4,667,058, Cl. 136-244.000.
- Daifuku Co., Ltd.: *See—*
  - Fujita, Shigeyoshi; Saski, Tomoyuki; Fukuhara, Kazuyoshi; and Nishikawa, Hirohsi, 4,671,183, Cl. 104-93.000.
- Daig Corporation: *See—*
  - Kane, Lawrence M., 4,646,755, Cl. 128-785.000.
- Daigaku, Masaaki; and Saito, Shoichi, to Olympus Optical Co., Ltd. Method of recording identification signal on software recording medium. 4,658,306, 4-14-87, Cl. 360-22.000.
- Daiger, Robert; Hoeren, Kurt; and Hummel, Dietmar, to Kienzle Apparate GmbH. Photoelectric impulse transmitter. 4,670,750, 6-2-87, Cl. 340-870.290.
- Daigle, Clement; and Gonthier, Emile, to Les Industries Fortier Ltee. Molded elastomeric circular gasket. 4,693,482, 9-15-87, Cl. 277-207.00A.
- Daigle, Colastie J.: *See—*
  - Smith, Malcolm S.; and Daigle, Colastie J., 4,666,717, Cl. 426-1.000.
- Daigle, Richard A., Sr.; Stanfield, William G.; and Crenshaw, Michael E., to LTV Energy Products Company. Apparatus and system for flooding submerged structures. 4,696,602, 9-29-87, Cl. 405-205.000.
- Daigle, Ronald H. Headband and eyepiece combination. 4,712,254, 12-15-87, Cl. 2-452.000.
- Daigle, Rosaire. Stand for holding leaf bags. 4,708,307, 11-24-87, Cl. 248-97.000.
- Daigne, Bernard: *See—*
  - Slodzian, Georges; Costa De Beauregard, Francois; Daigne, Bernard; and Girard, Francois, 4,638,160, Cl. 250-296.000.
  - Slodzian, Georges; Daigne, Bernard; and Girard, Francois, 4,694,170, Cl. 250-309.000.
- Daigneault, Steven M.: *See—*
  - Aldrich, Ralph E.; and Daigneault, Steven M., 4,674,848, Cl. 350-610.000.
  - Anthony, Frank M.; Aldrich, Ralph E.; and Daigneault, Steven M., 4,657,358, Cl. 350-610.000.
- Daigo, Yasuhito; Horibe, Takashi; Inage, Kengo; Naruse, Shigeyasu; Nara, Takashi; Okamoto, Yoshizo; and Yamamoto, Hironobu, to Tokuriki Honten Company, Limited. Gallium alloy for dental restorations. 4,659,384, 4-21-87, Cl. 106-35.000.
- Daigo, Yukitaka: *See—*
  - Nishi, Yoshitsugu; and Daigo, Yukitaka, 4,638,501, Cl. 378-182.000.
- Daihatsu Diesel Mfg. Co., Ltd.: *See—*
  - Goto, Teruo; Takata, Yoshirou; Muraji, Kenji; and Higashi, Mikio, 4,698,622, Cl. 340-648.000.
- Daihatsu Motor Co., Ltd.: *See—*
  - Inoguchi, Kenichi; Iwakura, Yoichi; and Umehara, Jun, 4,644,919, Cl. 123-438.000.
  - Inoguchi, Kenichi; Iwakura, Yoichi; Tanaka, Hirofumi; and Umehara, Jun, 4,676,204, Cl. 123-179.00G.
  - Miyake, Hiroshi, 4,715,540, Cl. 239-533.300.
  - Yoshida, Ryo; and Aikawa, Hiroshi, 4,714,451, Cl. 474-28.000.
  - Yoshida, Takeshi; Honda, Takayasu; Kitazume, Shunosuke; and Tanaka, Kouzou, 4,637,653, Cl. 297-334.000.
- Daihen Corporation: *See—*
  - Arii, Kazuhiro; Tanaka, Teruaki; Sumida, Nobuyuki; and Arisaka, Kouhei, 4,637,563, Cl. 242-4.00B.
- Daiichi Denshi Kogyo Kabushiki Kaisha: *See—*
  - Furuya, Kiyoto, 4,650,723, Cl. 428-622.000.
  - Furuya, Kiyoto, 4,662,702, Cl. 339-176.0MP.
  - Hirose, Takao; and Kumekawa, Norio, 4,690,494, Cl. 350-96.200.
  - Kato, Matsuo; Ohtsuki, Tomonari; Hashimoto, Kazuya; and Nakaide, Masami, 4,706,381, Cl. 29-857.000.

- Ohtsuki, Tomonari; and Uchida, Kanzaburo, 4,671,594, Cl. 439-347.000.
- Ohtsuki, Tomonari; and Tsurumaki, Kazuyoshi, 4,695,914, Cl. 361-42.000.
- ichi Koshuha Kogyo Kabushiki Kaisha: *See—*
  - Ino, Toshio; Maenosono, Tsukasa; Yoshida, Kazuo; Terasaki, Masanori; Kuriwaki, Tetsusho; Koga, Tadao; and Hirado, Miharu, 4,694,131, Cl. 219-10.410.
  - Koga, Tadao; Sugimori, Mitsuru; Terasaki, Masanori; Maenosono, Tsukasa; Tsushima, Satoru; Yoshida, Kazuo; Kuriwaki, Tetsusho; and Hirado, Miharu, 4,687,894, Cl. 219-10.430.
- ichi Pure Chemicals Co., Ltd.: *See—*
  - Hibino, Mitsugu; Kanada, Taira; and Hirata, Miyoshi, 4,690,907, Cl. 436-514.000.
  - Sakai, Yasuo; and Hirata, Miyoshi, 4,680,274, Cl. 436-512.000.
- ichi Seiyaku Co., Ltd.: *See—*
  - Hamaoka, Toshiyuki; Fujiwara, Hiromi; Kusama, Tsuneo; and Komiya, Masahiro, 4,672,106, Cl. 530-331.000.
  - Isoda, Sumiro; Suzuki, Norio; Miwa, Tamotsu; and Aibara, Shunzo, 4,652,646, Cl. 544-251.000.
  - Kanao, Munefumi, 4,665,188, Cl. 548-341.000.
  - Kikuchi, Hiroshi; and Yamauchi, Hitoshi, 4,687,661, Cl. 424-38.000.
- ain Industries Ltd.: *See—*
  - Enjo, Naonori; Yagi, Toshiharu; and Kagami, Masato, 4,664,846, Cl. 252-511.000.
  - Enjo, Naonori; Shinjo, Masayoshi; Okazaki, Yasuko; and Hayashi, Kazunori, 4,685,967, Cl. 106-13.000.
  - Fujimoto, Satoru, 4,716,347, Cl. 318-460.000.
  - Fujimoto, Yuji; Aono, Masayuki; Takei, Tsutomu; Nakano, Tetuo; and Nakabayashi, Teiji, 4,688,392, Cl. 62-174.000.
  - Fukui, Shosin; Shinjo, Masayoshi; Aoyama, Hirokazu; Okazaki, Yasuko; Enjo, Naonori; and Hayashi, Kazunori, 4,673,712, Cl. 526-253.000.
  - Hisamoto, Iwao; and Yamana, Masayuki, 4,681,974, Cl. 560-87.000.
  - Hisamoto, Iwao; Hirai, Masaru; and Ishikawa, Sueyoshi, 4,695,488, Cl. 427-385.500.
  - hara, Kiyohiko; and Nakagawa, Tsuneo, 4,677,175, Cl. 526-254.000.
  - Kawachi, Shoji; Tomoda, Masayasu; Ueta, Yutaka; and Oka, Masahiko, 4,670,328, Cl. 428-260.000.
  - Kobayashi, Tadashi, 4,641,503, Cl. 62-259.100.
  - Kodama, Masahiro; Sakae, Tatsuya; and Urano, Yoshio, 4,695,967, Cl. 364-521.000.
  - Matoba, Yoshiaki; and Ozawa, Hitoshi, 4,637,786, Cl. 418-55.000.
  - Namba, Mutsusuke; Shirasaki, Osamu; and Hirata, Tomohiko, 4,650,815, Cl. 521-77.000.
  - ogi, Munehiro; Ohashi, Ryutaro; Miyazaki, Koichiro; Tanaka, Takashi; Tamakoshi, Koichiro; Tamano, Yoshiziro; Wakita, Syotaro; and Suzuki, Toshimitsu, 4,641,671, Cl. 134-57.00D.
  - Ohmori, Akira; Tomihashi, Nobuyuki; Inukai, Hiroshi; and Nakai, Kazuhiro, 4,638,041, Cl. 526-247.000.
  - Ohmori, Akira; Yasuhara, Takashi; Izutani, Naoaki; and Ueda, Yasufumi, 4,644,043, Cl. 526-246.000.
  - Ohmori, Akira; and Tomihashi, Nobuyuki, 4,665,144, Cl. 526-245.000.
  - Ohsaka, Yohnosuke; Amimoto, Yoshio; and Negishi, Yoshio, 4,683,289, Cl. 528-402.000.
  - Ohsaka, Yohnosuke; and Takaki, Shoji, 4,709,060, Cl. 549-511.000.
  - ka, Masahiko; and Morita, Shigeru, 4,654,444, Cl. 568-560.000.
  - ka, Masahiko; and Morita, Shigeru, 4,663,407, Cl. 526-209.000.
  - ka, Masahiko; Ueta, Yutaka; Kano, Hideo; Tomoda, Masayasu; and Kawachi, Shoji, 4,696,989, Cl. 526-254.000.
  - kamura, Kazuo; Kitamura, Ikuo; Aomi, Hideki; Koyama, Satoshi; and Tokunaga, Katsushi, 4,668,414, Cl. 252-62.510.
  - ko, Junichi; and Yagi, Toshiharu, 4,636,331, Cl. 252-511.000.
  - gimoto, Takayuki; Okuzawa, Yoshiyuki; and Suzuki, Nobuo, 4,644,756, Cl. 62-160.000.
  - keuchi, Yoshio; Koizumi, Toru; and Hori, Kozo, 4,713,469, Cl. 560-17.000.
- Kogyo Co., Ltd.: *See—*
  - jo, Naonori; Noguchi, Masahiro; and Ide, Satoshi, 4,651,531, Cl. 60-651.000.
  - jo, Naonori; and Omure, Yukio, 4,659,505, Cl. 252-364.000.
  - jo, Naonori; Noguchi, Masahiro; and Ide, Satoshi, 4,673,517, Cl. 252-67.000.
  - ji, Tsuneo; Inukai, Hiroshi; Deguchi, Takayuki; Amano, Toshihiko; Kakuchi, Masami; Asakawa, Hiroshi; and Kogure, Osamu, 4,686,168, Cl. 430-326.000.
  - rada, Tokuya; and Higashiura, Tadashi, 4,673,644, Cl. 435-101.000.
  - samoto, Iwao; Maeda, Chiaki; and Nishiwaki, Mitsuhiro, 4,638,089, Cl. 564-292.000.
  - eshi, Jyuzaemon; Fumoto, Syozo; and Oshita, Kiyoshi, 4,714,748, Cl. 526-255.000.
  - a, Mieko; Tominaga, Yoshio; and Nakanishi, Katsumi, 665,029, Cl. 435-198.000.
  - kagawa, Shinichi; Nakagawa, Tsuneo; Amano, Toshihiko; Omori, Mitsugu; Yamaguchi, Sadaatsu; and Asano, Kozo, 703,095, Cl. 526-247.000.
  - mori, Akira; Tomihashi, Nobuyuki; and Shimizu, Yoshiki, 634,754, Cl. 526-242.000.
  - mori, Akira; Tomihashi, Nobuyuki; Inukai, Hiroshi; and Izutani, aoaki, 4,655,807, Cl. 55-522.000.
  - mori, Akira, 4,660,923, Cl. 350-96.340.
  - mori, Akira; and Inukai, Hiroshi, 4,667,000, Cl. 526-247.000.
  - mori, Akira; and Ishiwari, Kazuo, 4,690,869, Cl. 428-421.000.
  - Okamura, Kazuo; Koyama, Satoshi; Maeda, Tadayuki; and Kamihigoshi, Tutomu, 4,684,591, Cl. 429-218.000.
  - Satokawa, Takaomi; Fujii, Tsuneo; and Deguchi, Takayuki, 4,656,108, Cl. 430-18.000.
  - Suzuki, Takeshi; Tominaga, Shigetake; and Nakai, Masanori, 4,680,331, Cl. 524-269.000.
- Daikin Trade & Industry Co., Ltd.: *See—*
  - Ono, Teruaki, 4,699,242, Cl. 181-170.000.
- Daiko, Yoichi; Masuda, Masami; and Terabayashi, Takao, to Hitachi, Ltd. Boring machine. 4,697,964, 10-6-87, Cl. 408-6.000.
- Daikohara, Tamotsu, to Sanden Corporation. Compressor with rotation detecting device. 4,701,109, 10-20-87, Cl. 417-223.000.
- Daikoku, Takahiro: *See—*
  - Higeta, Kazuya; Daikoku, Takahiro; Fujioka, Kazumasa; and Nakajima, Isao, 4,672,392, Cl. 346-76.0PH.
  - Kurihara, Yasutoshi; Soga, Tasao; Hachino, Hiroaki; Miyata, Kenji; Okamura, Masahiro; Kobayashi, Fumiyuki; and Daikoku, Takahiro, 4,649,990, Cl. 165-80.400.
  - Sasaki, Toshi; Yoshida, Hiromichi; Fukuda, Shigeho; Oizumi, Kiyoshi; Kakizaki, Kimio; Nakayama, Wataru; Daikoku, Takahiro; Nakajima, Tadakatsu; and Nakayama, Yoshihiko, 4,678,029, Cl. 165-133.000.
- Daikuzono, Norio, to Surgical Laser Technologies, Inc. Medical and surgical laser probe I. 4,693,244, 9-15-87, Cl. 128-303.100.
- Daikyo Service Station Development Co. Ltd.: *See—*
  - Yamamoto, Yoshinori, 4,638,671, Cl. 73-708.000.
- Dailey, George F.: *See—*
  - Cooper, Frank W., Jr.; and Dailey, George F., 4,683,109, Cl. 376-261.000.
- Daily, Jeffrey N.; Orr, Bruce B.; and Martinez, Guillermo J. Thermocouple containment chamber. 4,653,935, 3-31-87, Cl. 374-208.000.
- Daily, Pat O., to Daily, Pat O. Intraoperative temperature probe. 4,665,927, 5-19-87, Cl. 128-736.000.
- Daily, Terrill A., to Marley Company, The. Wall mounted forced air electric heater. 4,644,135, 2-17-87, Cl. 219-370.000.
- Daimaru, Akimasa: *See—*
  - Ban, Keisuke; and Daimaru, Akimasa, 4,677,901, Cl. 92-213.000.
- Daimer, Wolfgang; Schipfer, Rudolf; and Monschein, Gunther, to Vianova Kunstharz, A.G. Process for producing cathodically depositable paint binders. 4,659,800, 4-21-87, Cl. 528-103.000.
- Daimler-Benz Aktiengesellschaft: *See—*
  - Abthoff, Joerg; Schuster, Hans-Dieter; Loose, Gunter; and Joki, Bernhard, 4,667,469, Cl. 60-311.000.
  - Abthoff, Joerg; Schuster, Hans D.; Langer, Hans J.; Zahn, Wolfgang; and Ebinger, Gunther, 4,691,562, Cl. 73-118.100.
  - Abthoff, Joerg; Schuster, Hans-Dieter; Loose, Gunter; and Joki, Bernhard, 4,704,863, Cl. 60-311.000.
  - Albrecht, Hans; and Maly, Rudolf, 4,658,185, Cl. 315-58.000.
  - Albrecht, Wilhelm; Wurz, Dieter; Peitsmeier, Karl; Waldschutz, Heinz; Ruckert, Walter; Kuhn, Klaus; and Patzelt, Helmut, 4,644,817, Cl. 74-552.000.
  - Andres, Rudolf; Moller, Hermann; and Seel, Holger, 4,699,424, Cl. 297-284.000.
  - Andres, Rudolf; Knoll, Heinz; Petri, Volker; and Pfistner, Harald, 4,700,974, Cl. 280-806.000.
  - Andres, Rudolf; Knoll, Heinz; Petri, Volker; and Pfistner, Harald, 4,702,492, Cl. 280-801.000.
  - Arold, Klaus; Koukal, Heinz; Grimm, Hermann, deceased; and Trube, Hans, 4,693,417, Cl. 237-12.30B.
  - Arold, Klaus; Grimm, Hermann, deceased; and Koukal, Heinz, 4,712,608, Cl. 165-41.000.
  - Augustin, Ulrich, 4,650,121, Cl. 239-464.000.
  - Augustin, Ulrich, 4,658,784, Cl. 123-383.000.
  - Baehrle, Friedrich; Wulf, Helmut; and Kreeb, Helmut, 4,693,301, Cl. 16[illegible]-45.000.
  - Baudisch, Hans; and Schultheis, Hans, 4,653,370, Cl. 83-456.000.
  - Baumann, Karl-Heinz; Schick, Gerald; Kassing, Lothar; Bossenmaier, Alban; and Brambilla, Luigi, 4,715,468, Cl. 180-271.000.
  - Baumert, Heinz; Schmitt-Maass, Nikolaus; and Karb, Erich, 4,687,254, Cl. 297-481.000.
  - Bergmann, Horst; and Fischer, Gunter, 4,662,332, Cl. 123-321.000.
  - Biber, Wolfgang, 4,651,812, Cl. 165-25.000.
  - Brodbeck, Werner, 4,663,989, Cl. 74-781.00R.
  - Burckhardt, Manfred; and Zimmer, Richard, 4,702,337, Cl. 180-197.000.
  - Burckhardt, Manfred, 4,706,459, Cl. 60-562.000.
  - Burger, Helmut; and Sumser, Siegfried, 4,652,212, Cl. 416-188.000.
  - Casimir, Manfred; Graf, Paul; and Stumpf, Joachim, 4,653,617, Cl. 188-319.000.
  - Conrad, Ulrich; Moser, Peter; and Gruber, Gerhard, 4,640,256, Cl. 123-568.000.
  - Conrad, Ulrich; Grohn, Michael; and Moser, Peter, 4,697,423, Cl. 60-605.000.
  - Conrad, Ulrich; Kellermann, Guenter; Breymayer, Angela; Klinker, Rolf; Schuldt, Oswald; Hoffmann, Rainer; and Fabian, Frank-Dietrich, 4,709,548, Cl. 60-280.000.
  - Dahm, Wolfram, 4,702,727, Cl. 474-101.000.
  - Dengler, Alfred; and Medler, Eberhard, 4,697,741, Cl. 239-391.000.
  - Eltze, Georg; Kluegl, Wendelin; and Thoma, Frank, 4,706,627, Cl. 123-365.000.
  - Epple, Anton; Trube, Hans; Pfeiffer, Martin; Huber, Guntram; and Berger, Josef, 4,670,934, Cl. 15-250.320.
  - Epple, Anton; Trube, Hans; and Pfeiffer, Martin, 4,674,145, Cl. 15-250.190.
  - Faust, Eberhard; Niethammer, Kurt; and Hammer, Ludwig, 4,695,095, Cl. 297-410.000.

Foeldesi, Mihaly; and Attinger, Thomas, 4,662,822, Cl. 415-213.00C.
Foerster, Hans-Joachim, 4,683,972, Cl. 180-142.000.
Fremd, Rainer, 4,656,876, Cl. 73-865.000.
Frotschner, Eberhard; and Worner, Otto, 4,704,864, Cl. 60-330.000.
Gmeiner, Guenter; Andres, Rudolf; and Seel, Holger, 4,652,768, Cl. 307-10.00R.
Gobien, Ernst; Haussmann, Gerhard; and Bruetsch, Edgar, 4,658,763, Cl. 123-41.82R.
Grantz, Helmut; and Odebrecht, Wolfgang, 4,691,949, Cl. 292-216.000.
Groesch, Lothar; Netzer, Gabriel; and Kassing, Lothar, 4,701,132, Cl. 434-274.000.
Haberle, Fritz; Motting, Gotz; Munsinger, Walter; and Waschitschek, Franz, 4,671,548, Cl. 292-216.000.
Hafner, Gunther; Noreikat, Karl-Ernst; Schmidt, Hans-Dieter; Letsche, Ulrich; and Bauer, Bernhard, 4,655,254, Cl. 137-625.650.
Heimbrodt, Klaus- J.; Motting, Gotz; and Hack, Albert, 4,706,738, Cl. 165-98.000.
Hertweck, Gernot; Kappis, Fritz; Kellermann, Guenter; and Schalueck, Klaus, 4,697,569, Cl. 123-568.000.
Hespelt, Achim; and v. d. Ohe, Manfred, 4,705,292, Cl. 280-660.000.
Hoernig, Rudolf; Herges, Peter; Knoff, Bernd; Richter, Karl-Heinz; Buechle, Karl-Heinz; and Wallentowitz, Henning, 4,681,185, Cl. 180-247.000.
Hoffmann, Gerhard, 4,705,615, Cl. 204-289.000.
Hofmann, Rainer, 4,667,787, Cl. 192-0.032.
Hofmann, Rainer, 4,713,763, Cl. 364-424.100.
Huber, G.; and Kneib, Rudi, 4,676,082, Cl. 70-264.000.
Huth, Lothar; Dahm, Horst; Moetting, Goetz; and Haeberle, Fritz, 4,703,398, Cl. 362-61.000.
Klein, Norbert; Parisch, Jochen; and Zweigart, Gerhard, 4,697,841, Cl. 296-84.00R.
Kleineberg, Wolfgang; Ziegelbauer, Alfons; Boehringer, Harald; and Stotz, Manfred, 4,667,920, Cl. 248-610.000.
Kleineberg, Wolfgang; and Scheurenbrand, Dieter, 4,697,612, Cl. 137-39.000.
Klinkner, Walter; and Schmidt, Fritz, 4,685,698, Cl. 280-707.000.
Krettenauer, Gustav; and Kiwitz, Heinz, 4,639,008, Cl. 280-405.00R.
Krugener, Rolf; Faust, Eberhard; and Niethammer, Kurt, 4,650,250, Cl. 297-410.000.
Lang, Werner; and Kretschmer, Jurgen, 4,653,726, Cl. 251-337.000.
Leiber, Heinz, 4,700,797, Cl. 180-197.000.
Leiber, Heinz, 4,704,541, Cl. 307-9.000.
Letsche, Ulrich; Rapp, Wolfgang, deceased; Haefner, Guenther; and Tonhaeuser, Wilhelm, 4,711,220, Cl. 123-502.000.
Lippert, Reinhold, 4,702,333, Cl. 180-140.000.
Lux, Horst; and Schatzler, Walter, 4,679,846, Cl. 296-214.000.
Martin, Hans; and Braatz, Andreas, 4,667,791, Cl. 192-58.00B.
Merkle, Josef, 4,635,957, Cl. 280-663.000.
Merkle, Josef, 4,714,287, Cl. 293-102.000.
Mirjanic, Milorad, 4,656,982, Cl. 123-193.0CH.
Nonnenmann, Manfred; Hauser, Kurt; and Gohl, Hans-Dieter, 4,655,686, Cl. 416-189.000.
Oehrle, Rolf; and Herlemann, Werner, 4,667,966, Cl. 277-12.000.
Paerisch, Jochen; Herlemann, Werner; Sweigart, Gerhard; Jardin, Hans; and Lutz, Alfons, 4,702,518, Cl. 296-217.000.
Paerisch, Jochen; Herlemann, Werner; and Schaetzler, Walter, 4,709,959, Cl. 296-217.000.
Parisch, Jochen; and Herlemann, Werner, 4,637,116, Cl. 29-441.00R.
Rapp, Wolfgang, deceased; Hafner, Gunther; and Letsche, Ulrich, 4,712,530, Cl. 123-502.000.
Schaetzler, Walter; Herlemann, Werner; Lux, Horst; and Benda, Hans, 4,664,439, Cl. 296-213.000.
Schiessle, Edmund; and Forkel, Werner, 4,638,659, Cl. 73-119.00A.
Schmid, Dieter, 4,650,274, Cl. 339-263.00E.
Schober, Karl; and Groll, Fritz, 4,654,058, Cl. 55-217.000.
Scholz, Helmut, 4,697,852, Cl. 303-7.000.
Scholz, Helmut, 4,697,853, Cl. 303-7.000.
Schumacher, Rolf; Faix, Heinz; and Bruhnke, Ulrich, 4,635,415, Cl. 52-127.100.
Siebler, Helmut, 4,636,003, Cl. 297-336.000.
Siebler, Helmut, 4,695,094, Cl. 297-331.000.
Solleder, Otto; Flemming, Helmut; Konig, Werner; and Kleinschmit, Einhard, 4,699,230, Cl. 180-73.100.
Steinkamper, Reinhard; Boll, Wolf; and Peitsmeier, Karl, 4,678,361, Cl. 403-359.000.
Sturtz, Gunter; Jocher, Reiner; and Baitinger, Hartmut, 4,644,447, Cl. 362-61.000.
Sumser, Siegfried; and Burger, Helmut, 4,653,275, Cl. 60-602.000.
Sumser, Siegfried, 4,693,085, Cl. 60-611.000.
Tank, Eggert; Hedrich, Dieter; and Straub, Peter, 4,653,569, Cl. 164-97.000.
Tattermusch, Peter; and Zech, Ulrich, 4,703,947, Cl. 280-689.000.
Tegtmeier, Dietrich, 4,671,234, Cl. 123-432.000.
Tomforde, Johann, 4,697,843, Cl. 296-97.00G.
Ulrich, Reinhard, 4,705,354, Cl. 350-96.290.
von Koch, Arwed, 4,702,503, Cl. 285-330.000.
Weinich, Manfred; Gross, Hermann; and Rapp, Herbert, 4,674,796, Cl. 297-391.000.
Weller, Karl-Heinz R., 4,696,225, Cl. 98-2.110.
Woerner, Guenter; Tscheplak, Ernst; and Moser, Franz, 4,714,449, Cl. 464-68.000.
Worner, Gunter; Moser, Franz; Tscheplak, Ernst; and Hausegger, Hermann, 4,662,239, Cl. 74-574.000.
Zollmeyer, Willi; and Scheurer, Friedrich, 4,697,662, Cl. 180-71.000.

Daimon, Akio: *See—*
- Katsuki, Hiroshi; and Daimon, Akio, 4,707,514, Cl. 524-505.000.
- Mitsuno, Tatsuyuki; Koyama, Teruhisa; Shinonaga, Hideo; and Daimon, Akio, 4,686,257, Cl. 524-449.000.

Daines, Bernard N.: *See—*
- Carse, Gregg D.; and Daines, Bernard N., 4,716,564, Cl. 370-110.100.

Dainichi-Nippon Cables, Ltd.: *See—*
- Hayami, Hiroyuki; and Utsumi, Atsushi, 4,690,500, Cl. 350-96.250.
- Ijiri, Yasuo; Iri, Eiji; Oguchi, Toshitaro; and Aritomi, Koichiro, 4,703,997, Cl. 350-96.230.
- Iri, Eiji; Kaneko, Takashi; Shintani, Takeshi; Mio, Kotaro; and Ijiri, Yasuo, 4,711,523, Cl. 350-96.230.
- Shirai, Hideaki; Chiba, Kimio; Okawa, Koji; Ishibashi, Hiroshi; Ishii, Akihiro; Itoh, Hirotaka; Kuzushita, Hirokazu; Yoshioka, Michihiko; and Hirose, Michio, 4,695,515, Cl. 428-458.000.
- Torigoe, Yutaka, 4,645,697, Cl. 428-43.000.
- Utsumi, Atsushi; and Hayami, Hiroyuki, 4,647,153, Cl. 350-96.250.

Dainichi Shoji Co., Ltd.: *See—*
- Kishida, Yoshifumi; and Takeuchi, Masayoshi, 4,643,774, Cl. 134-1.000.
- Kishida, Yoshifumi; and Takeuchi, Masayoshi, 4,714,086, Cl. 134-83.000.

Dainichiseika Color & Chemicals Mfg. Co., Ltd.: *See—*
- Kanou, Kazuo; Shinoda, Takamitu; and Kanbara, Yukio, 4,713,411, Cl. 524-560.000.
- Kawamura, Kimihide; Horiguchi, Shojiro; and Okamoto, Hisao, 4,638,052, Cl. 534-575.000.
- Nakamura, Michiei; Takeuchi, Hitoshi; Takahashi, Tetujiro; Takizawa, Minoru; and Horiguchi, Shojiro, 4,698,099, Cl. 106-288.00R.
- Nakamura, Michiei; Takeuchi, Hitoshi; Takahashi, Tetujiro; Takizawa, Minoru; and Horiguchi, Shojiro, 4,704,165, Cl. 106-308.00M.
- Shimizu, Ryuichi; Mori, Yasuki; Kawanishi, Tsuneaki; Isoe, Osamu; Morishita, Hirosada; and Hosoda, Tooru, 4,680,058, Cl. 106-23.000.

Dainihon Glass Industry Co., Ltd.: *See—*
- Sugita, Minoru; Nakatsuji, Teruyuki; Fujisaki, Tadashi; Hiraga, Hisao; Nishimoto, Takashi; and Futagawa, Minoru, 4,706,430, Cl. 52-309.160.

Dainihon Jochugiku Co., Ltd.: *See—*
- Katsuda, Yoshio; Yoshinaga, Sadao; and Mashine, Hiroyoshi, 4,693,868, Cl. 422-124.000.

Dainippon Ink and Chemicals, Inc.: *See—*
- Anazawa, Takanori; and Ono, Yoshiyuki, 4,664,681, Cl. 55-158.000.
- Ando, Hirohito; Takada, Zenji; and Shigeta, Yuko, 4,711,674, Cl. 106-289.000.
- Ehara, Shunji; Nakamura, Shoji; and Akama, Masato, 4,687,832, Cl. 528-97.000.
- Fujita, Yutaka; and Takeuchi, Kiyohumi, 4,670,182, Cl. 252-299.610.
- Hosoda, Atsushi; Satoh, Tadao; and Mizuno, Takehisa, 4,656,212, Cl. 524-269.000.
- Ito, Shichinosuke; and Yamamoto, Fumio, 4,672,095, Cl. 525-455.000.
- Izutsu, Hitoshi; and Yamaguchi, Toshihide, 4,703,074, Cl. 524-262.000.
- Kase, Mitsuo; Okoshi, Noboru; and Tsuyuzaki, Kazue, 4,647,623, Cl. 525-123.000.
- Kawabata, Juheiji; Sugie, Toshinori; Kobata, Fumihiro; and Hirayama, Akira, 4,678,831, Cl. 524-496.000.
- Khe, Nguyen C.; Nakamura, Masanobu; Fukawatase, Midori; and Takahashi, Kenji, 4,699,862, Cl. 430-93.000.
- Mitani, Tomomasa; and Mihata, Ichiro, 4,640,966, Cl. 526-249.000.
- Mitani, Tomomasa; and Mihata, Ichiro, 4,690,968, Cl. 524-315.000.
- Miura, Yasuhisa; Kataoka, Yasuki; and Asada, Tohru, 4,675,134, Cl. 260-501.140.
- Nakamura, Chiaki; Oe, Kouji; Muta, Tomonobu; Sasaki, Toshiki; and Nishio, Yoshihiro, 4,640,887, Cl. 430-275.000.
- Nakamura, Chiaki; Oe, Kouji; Muta, Tomonobu; and Sasaki, Toshiki, 4,684,601, Cl. 430-284.000.
- Okoshi, Noboru; Motomura, Masatoshi; Ohtsubo, Mitsuru; and Ikeda, Takenori, 4,710,230, Cl. 106-308.00N.
- Ooka, Masataka; Kuwamura, Shinichi; and Murakami, Yoichi, 4,634,736, Cl. 525-117.000.
- Ooka, Masataka; Kawamura, Shinichi; and Murakami, Yoichi, 4,670,521, Cl. 525-382.000.
- Ooka, Masataka; Okuda, Yaeko; and Kunugiza, Motoyasu, 4,696,975, Cl. 525-113.000.
- Sakakibara, Shigeru; Arimoto, Shunji; Ishikawa, Hidenobu; and Maruyama, Osamu, 4,690,987, Cl. 525-502.000.
- Sasaki, Makoto; Sasaki, Haruyoshi; and Sato, Hisato, 4,673,756, Cl. 558-416.000.
- Shirai, Naotake; and Sugitani, Michio, 4,654,409, Cl. 528-26.000.
- Takatsu, Haruyoshi; Sasaki, Makoto; Tanaka, Yasuyuki; and Sato, Hisato, 4,705,870, Cl. 549-369.000.
- Takatsu, Haruyoshi; Sasaki, Makoto; Tanaka, Yasuyuki; and Sato, Hisato, 4,705,905, Cl. 585-25.000.
- Takatsu, Haruyoshi; Sasaki, Makoto; Tanaka, Yasuyuki; and Sato, Hisato, 4,713,468, Cl. 558-411.000.

- Tanaka, Hideo; Ohhashi, Kuniyoshi; Gomi, Tatsuya; and Dobashi, Tomoyuki, 4,649,054, Cl. 426-397.000.
- Tanaka, Yasuyuki; Takatsu, Haruyoshi; and Takeuchi, Kiyohumi, 4,654,421, Cl. 544-335.000.
- Tanaka, Yasuyuki; Takatsu, Haruyoshi; and Takeuchi, Kiyohumi, 4,698,177, Cl. 252-299.630.
- Yoshioka, Nobuyuki; Okunishi, Yasuji; Miura, Yasuhisa; Mori, Yoshikazu; Kataoka, Yasuki; and Adachi, Eiichi, 4,659,739, Cl. 514-555.000.

Dainippon Pharmaceutical Co., Ltd.: *See*—
- Izutsu, Yasuo; Sogo, Kiyomi; Okamoto, Shizuo; and Tanaka, Terukazu, 4,650,666, Cl. 424-479.000.
- Kadokawa, Toshiaki; Kawashima, Katsuyoshi; Uno, Hitoshi; and Hino, Katsuhiko, 4,677,107, Cl. 514-254.000.
- Kitagawa, Tsunehiro, 4,693,968, Cl. 435-7.000.
- Matsumoto, Jun-ichi; Miyamoto, Teruyuki; Uno, Hitoshi; and Nakamura, Shinichi, 4,649,144, Cl. 514-300.000.

Dainippon Plastics Co., Ltd.: *See*—
- Kishima, Yoshio, 4,668,588, Cl. 428-412.000.

Dainippon Printing Co., Ltd.: *See*—
- Koike, Kiichi; Suzuki, Yoshie; Yoshinaka, Minoru; Okabe, Mitsuo; and Tanaka, Makoto, 4,664,994, Cl. 429-163.000.

Dainippon Screen Mfg. Co., Ltd.: *See*—
- Bessho, Yoshihiko; Yamashita, Koji; and Katayama, Masanori, 4,669,865, Cl. 355-30.000.
- Fujii, Teruo; and Tsutsui, Tomikazu, 4,637,710, Cl. 355-72.000.
- Fujii, Teruo, 4,687,323, Cl. 355-73.000.
- Fukushima, Masao; Hirose, Iwao; and Miyauchi, Yoshio, 4,664,502, Cl. 355-10.000.
- Hashimoto, Takeji; and Watanabe, Kenji, 4,675,242, Cl. 428-131.000.
- Hatabe, Yukio; Miyauchi, Yoshio; Fukushima, Masao; Horikawa, Toru; and Bessho, Yoshihiko, 4,668,073, Cl. 355-3.0FU.
- Hatabe, Yukio; and Komatsubara, Shoji, 4,702,588, Cl. 355-10.000.
- Hatayama, Fumihiro, 4,652,936, Cl. 358-285.000.
- Hatayama, Fumihiro; and Hirosawa, Makoto, 4,668,996, Cl. 358-298.000.
- Hatayama, Fumihiro, 4,682,243, Cl. 358-287.000.
- Hirosawa, Makoto, 4,656,504, Cl. 358-75.000.
- Hirosawa, Makoto, 4,684,979, Cl. 358-75.000.
- Hirosawa, Makoto, 4,704,927, Cl. 83-13.000.
- Hohki, Tetsuo; Sano, Tetsuo; Kodama, Eiji; and Tsujinaka, Hisayuki, 4,682,040, Cl. 250-571.000.
- Ikuta, Kunio; and Yamada, Katsunori, 4,673,971, Cl. 358-75.000.
- Ikuta, Kunio, 4,692,879, Cl. 364-518.000.
- Ishida, Akira; Yumen, Akira; and Saito, Naotada, 4,646,144, Cl. 358-75.000.
- Kasahara, Shuhei; and Hiroshima, Mochisuke, 4,705,390, Cl. 355-52.000.
- Kikkawa, Atsushi; Kondo, Noriyuki; and Tamada, Atsushi, 4,659,936, Cl. 250-560.000.
- Kikkawa, Atsushi; and Kondo, Noriyuki, 4,676,647, Cl. 356-382.000.
- Kimura, Yoshikazu; Sho, Ikuo; and Hatabe, Yukio, 4,698,569, Cl. 318-567.000.
- Kitagawa, Osamu, 4,652,914, Cl. 358-75.000.
- Kitagawa, Osamu, 4,679,071, Cl. 358-75.000.
- Kitai, Makoto; and Omori, Takashi, 4,655,583, Cl. 355-29.000.
- Kitai, Makoto; and Omori, Takashi, 4,674,867, Cl. 355-78.000.
- Kitamura, Hideaki; and Yamada, Mitsuhiko, 4,679,095, Cl. 358-280.000.
- Kitamura, Hideaki; Fujiki, Syogo; and Yamada, Mitsuhiko, 4,683,500, Cl. 358-280.000.
- Kitamura, Hideaki, 4,703,363, Cl. 358-284.000.
- Kitazawa, Yoshihiro, 4,710,823, Cl. 358-280.000.
- Komatsubara, Shoji; Hatabe, Yukio; Horikawa, Tooru; Murasawa, Sadao; and Murakami, Hajime, 4,682,881, Cl. 355-10.000.
- Kurusu, Yasuo; and Morizumi, Yoshiaki, 4,691,240, Cl. 358-282.000.
- Kuwabara, Akira, 4,683,499, Cl. 358-264.000.
- Maeda, Kiyoshi; and Ueyama, Tsutomu, 4,642,701, Cl. 358-296.000.
- Maeda, Kiyoshi; and Tomohisa, Kunio, 4,647,145, Cl. 350-6.800.
- Mitsuka, Ikuo, 4,639,086, Cl. 350-322.000.
- Mitsuka, Ikuo, 4,679,155, Cl. 364-525.000.
- Mitsuka, Ikuo; and Kuwabara, Akira, 4,687,944, Cl. 250-578.000.
- Murakami, Shigeo, 4,712,134, Cl. 358-213.130.
- Murasawa, Sadao; Murakami, Hajime; and Oka, Nobuharu, 4,663,257, Cl. 430-45.000.
- Nakaji, Etsuo, 4,654,526, Cl. 250-234.000.
- Nishida, Fumihiko; Shimizu, Yasumasa; Yoshida, Tomohiro; Urata, Makoto; Hotta, Tomiji; Mizuta, Masaji; and Yamashita, Hiroshi, 4,679,930, Cl. 355-52.000.
- Nishida, Fumihiko; Nanri, Seiji; and Yahata, Makoto, 4,714,947, Cl. 355-95.000.
- Nishihama, Takamichi; Okada, Kotaro; and Kadota, Shigekazu, 4,695,044, Cl. 269-21.000.
- Ogami, Nobutoshi; and Kitagawa, Masaru, 4,693,211, Cl. 118-725.000.
- Ohi, Michio, 4,642,699, Cl. 358-280.000.
- Ohtori, Masakazu, 4,690,527, Cl. 353-65.000.
- Saito, Masashi; Shimamura, Tsutau; Henmi, Kojiro; and Kyushima, Hiroki, 4,671,645, Cl. 355-3.00R.
- Sakai, Takamasa, 4,693,208, Cl. 118-724.000.
- Shida, Junji; Ono, Yoshio; Mitsuka, Ikuo; Hoki, Testuo; Kuwabara, Akira; Haibara, Hitoshi; and Sakamoto, Takashi, 4,656,517, Cl. 358-213.000.
- Shida, Junji, 4,672,464, Cl. 358-287.000.
- Takagi, Tsuneo; Tanabe, Kenjiro; Fukushima, Masao; Kyushima, Hiroki; Takenaka, Kiyoshi; Okada, Akira; and Isogaki, Yoshinor, 4,641,951, Cl. 355-7.000.
- Takenaka, Kiyoshi; Ohtsuji, Masahiko; and Kabuto, Hiroaki, 4,707,117, Cl. 355-3.0SH.
- Taniguchi, Hiroshi; Tanizawa, Mitsumasa; and Ueno, Masatoshi, 4,687,313, Cl. 354-320.000.
- Terada, Shinichi; Masuda, Kozo; and Adachi, Yoshimitsu, 4,635,131, Cl. 358-296.000.
- Teraoka, Hideyuki, 4,678,432, Cl. 432-12.000.
- Tomohisa, Kunio; Maeda, Kiyoshi; and Yao, Koji, 4,636,869, Cl. 358-287.000.
- Tomohisa, Kunio; and Cho, Masamichi, 4,660,082, Cl. 358-163.000.
- Tomohisa, Kunio; Cho, Masamichi; and Kurusu, Yasuo, 4,672,463, Cl. 358-284.000.
- Tomohisa, Kunio; Maeda, Kiyoshi; and Cho, Masamichi, 4,691,241, Cl. 358-293.000.
- Tomohisa, Kunio; Cho, Masamichi; and Kurusu, Yasuo, 4,712,141, Cl. 358-280.000.
- Ueyama, Tsutomu, 4,707,123, Cl. 355-73.000.
- Yamada, Mitsuhiko, 4,642,680, Cl. 358-78.000.
- Yamada, Mitsuhiko, 4,642,698, Cl. 358-260.000.
- Yamada, Mitsuhiko, 4,644,392, Cl. 358-75.000.
- Yamada, Mitsuhiko; and Kitamura, Hideaki, 4,649,500, Cl. 364-518.000.
- Yamada, Mitsuhiko; Atoji, Hitomi; and Kashiwabara, Katsuaki, 4,656,505, Cl. 358-80.000.
- Yamada, Mitsuhiko; and Kitamura, Hideaki, 4,670,793, Cl. 358-284.000.
- Yamada, Mitsuhiko, 4,672,462, Cl. 358-280.000.
- Yamada, Mitsuhiko; and Kitamura, Hideaki, 4,673,989, Cl. 358-287.000.
- Yamada, Mitsuhiko, 4,682,286, Cl. 364-200.000.
- Yamada, Mitsuhiko, 4,684,978, Cl. 358-75.000.
- Yamada, Mitsuhiko, 4,691,238, Cl. 358-280.000.
- Yamada, Mitsuhiko; Fujisawa, Kyohei; and Kitamura, Hideaki, 4,692,796, Cl. 358-76.000.
- Yamada, Mitsuhiko, 4,701,790, Cl. 358-75.000.
- Yamada, Susumu; and Yamada, Mitsuhiko, 4,636,870, Cl. 358-288.000.
- Yanagimoto, Katsutoshi; and Nagai, Shoichi, 4,634,655, Cl. 430-277.000.
- Yao, Koji, 4,707,683, Cl. 340-347.00P.
- Yokoi, Masakatsu; and Harada, Tsutomu, 4,686,359, Cl. 250-201.000.
- Yoshimi, Yasuhito, 4,641,941, Cl. 354-324.000.
- Yoshimi, Yasuhito, 4,673,273, Cl. 354-322.000.

Dainippon Screen Seizo Kabushiki Kaisha: *See*—
- Chaya, Hiromi, 4,639,879, Cl. 364-518.000.
- Hashimoto, Takeji; and Murayama, Minoru, 4,635,365, Cl. 33-1.00M.
- Hashimoto, Takeji; and Murayama, Minoru, 4,699,370, Cl. 271-98.000.
- Okai, Tsukasa; and Araki, Shuichi, 4,700,402, Cl. 382-56.000.
- Shimano, Noriyuki; Tokura, Isao; and Yamada, Mitsuhiko, 4,680,642, Cl. 358-280.000.
- Yamada, Mitsuhiko, 4,651,225, Cl. 358-287.000.
- Yoshimoto, Takeshi; Tsuda, Masanari; Masuda, Yoshikazu; and Yokoi, Masakatsu, 4,660,094, Cl. 358-285.000.

Daino, Grant O. Stained glass cremation urn with foam and paper liner. 4,648,162, 3-10-87, Cl. 27-1.000.

Daintrey, Joseph W.; and Thomson, Peter, to Sankey Vending Limited. Apparatus for beverage brewing. 4,694,739, 9-22-87, Cl. 99-289.00R.

Dairman, Wallace M.: *See*—
- Berger, Leo; Dairman, Wallace M.; Mowles, Thomas F.; and Olson, Gary L., 4,707,484, Cl. 514-278.000.

Dairyman's Cooperative Creamery Assoc.: *See*—
- Meade, Reginald E., 4,657,767, Cl. 426-471.000.

Daisho Seiki Kabushiki Kaisha: *See*—
- Nakaji, Takayuki, 4,635,401, Cl. 51-5.00D.

Daishoku Kako Kabushiki Kaisha: *See*—
- Koike, Akira, 4,638,561, Cl. 30-284.000.

Daishowa Seiki Co., Ltd.: *See*—
- Kubo, Haruaki; and Kamanaka, Yoshiyuki, 4,708,538, Cl. 408-59.000.
- Tanaka, Yuzuru, 4,657,451, Cl. 409-186.000.

Daisy Systems Corporation: *See*—
- Catlin, Gary M.; and Klovstad, Jim, 4,677,433, Cl. 340-825.200.

Daiwa Can Company, Limited: *See*—
- Kai, Takayuki, 4,649,251, Cl. 219-64.000.
- Yamamoto, Masatoshi; Kawai, Yasushi; Shudo, Katsuyoshi; Kato, Hiroyuki; and Masuda, Shunsuke, 4,642,437, Cl. 219-84.000.
- Yoshida, Eiichi; Aoki, Nobuyoshi; Suzuki, Toshimitsu; Hongo, Akira; Ueda, Hideki; and Nakata, Issei, 4,703,609, Cl. 53-431.000.

Daiwa Fine Chemicals Co., Ltd.: *See*—
- Obata, Keigo; Dohi, Nobuyasu; Okuhama, Yoshiaki; Masaki, Seishi; Okada, Yukiyoshi; and Yoshimoto, Masakazu, 4,673,470, Cl. 204-44.400.

Daiwa Golf Co., Ltd.: *See*—
- Aizawa, Yuichi, 4,664,383, Cl. 273-78.000.
- Sato, Koji, 4,653,756, Cl. 273-167.00E.
- Yamada, Magoichi, 4,697,814, Cl. 273-169.000.

Daiwa Kasei Kogyo Kabushiki Kaisha: *See*—
- Yokota, Hiroshi, 4,647,262, Cl. 411-44.000.

Daiwa Seiko Co, Ltd.: *See—*
  Saito, Masaji, 4,702,430, Cl. 242-84.50A.
Daiwa Seiko Inc.: *See—*
  Atobe, Takashi, 4,666,101, Cl. 242-84.420.
  Fukushima, Noriyasu; and Higashimoto, Takashi, 4,674,699, Cl. 242-84.52B.
  Hirose, Haruomi; and Atobe, Takashi, 4,697,758, Cl. 242-84.10M.
  Inoue, Koi, 4,653,216, Cl. 43-18.500.
  Inoue, Koi; Go, Youki; and Naeki, Yoshihiro, 4,682,439, Cl. 43-24.000.
  Iwama, Shinichi, 4,649,657, Cl. 36-117.000.
  Kaneko, Kyoichi, 4,650,161, Cl. 242-84.50A.
  Kaneko, Kyoichi, 4,702,431, Cl. 242-84.50A.
  Kaneko, Kyoichi; and Yamaguchi, Nobuyuki, 4,702,432, Cl. 242-84.50A.
  Miyoshi, Terumasa; and Iwama, Shinichi, 4,658,517, Cl. 36-117.000.
  Yamamoto, Shigeru; and Akiba, Masaru, 4,693,029, Cl. 43-22.000.
Daiwa Special Chemical Co., Ltd.: *See—*
  Yamada, Yosuke; and Oogami, Mitsuhiro, 4,690,158, Cl. 134-107.000.
Daiya Seiko Kabushiki-Kaisha: *See—*
  Inoue, Isao, 4,706,528, Cl. 81-179.000.
Dake, Huang: *See—*
  Yuan, Ren; Xianzhi, Chen; Yuanxi, Feng; Guojiu, Li; Dake, Huang; Yongli, Zhang; and Quanzhong, Sun, 4,701,689, Cl. 322-19.000.
Dakin, John P., to Plessey Overseas Limited. Optical fibre sensing arrangements. 4,638,153, 1-20-87, Cl. 250-227.000.
Dakin, John P., to Plessey Overseas Limited. Temperature measuring arrangements using optical fibre sensor. 4,673,299, 6-16-87, Cl. 374-131.000.
Dakin, W. Ray; and Browne, John F. N., to Optical Disc Corporation. Focus control system for optical information recorder or player. 4,701,603, 10-20-87, Cl. 250-201.000.
Dakin, W. Ray, to Optical Disc Corporation. PLL stabilized frequency modulator with extended low frequency range. 4,707,670, 11-17-87, Cl. 332-19.000.
Dakin, Wayne R., to Discovision Associates. Selectable video/audio coded data recovery from a record medium. 4,638,377, 1-20-87, Cl. 358-343.000.
Dakin, Wayne R., to Discovision Associates. Multiple variable rate audio message recording and playback. 4,703,368, 10-27-87, Cl. 358-342.000.
Dakota Mfg. Co., Inc.: *See—*
  Bills, Joseph W.; and Moller, William D., 4,701,098, Cl. 414-502.000.
Dakten Products Corp.: *See—*
  Tenenbaum, Martin, 4,682,493, Cl. 73-118.100.
Dal Degan, Neviano; and Rusina , Fulvio, to CSELT-Centro Studi e Laboratori Telecomunicazioni S.p.A. Method of and device for correcting burst errors on low bit-rate coded speech signals transmitted on radio-communication channels. 4,688,224, 8-18-87, Cl. 371-31.000.
Dal Palu, Attilio, to Fister S.p.A. Connecting member for mutually-oscillating components on windscreen-wiper blades. 4,675,934, 6-30-87, Cl. 15-250.420.
Dala nee Rezneki, Erzsebet: *See—*
  Boross, Laszlo; Dala nee Rezneki, Erzsebet; Kiss nee Deer, Aranka; Szajani, Bela; and Tetzli, Arpad, 4,650,762, Cl. 435-180.000.
Dalaba, O. Gene. Adjustable tire chain installer. 4,703,675, 11-3-87, Cl. 81-15.800.
Dalal, Samir K., to Honeywell Inc. Electrostatic discharge protection for electronic equipment. 4,642,727, 2-10-87, Cl. 361-212.000.
Dalal, Vikram L.: *See—*
  Delahoy, Alan E.; Dalal, Vikram L.; and Eser, Erter, 4,692,558, Cl. 136-258.000.
d'Alayer de Costemor d'Arc, Stephane, to Staar S.A. Swinging record changer. 4,701,899, 10-20-87, Cl. 369-36.000.
d'Alayer de Costemore d'Arc, Stephane, to Staar, S.A. Cleaning cassette for magnetic tape apparatus. 4,635,156, 1-6-87, Cl. 360-132.000.
d'Alayer de Costemore d'Arc, Stephane A. M., to Staar S.A. Obturating door for slot-type playback and/or recording apparatus. 4,675,858, 6-23-87, Cl. 369-77.100.
d'Alayer de Costemore d'Arc, Stephane A. M., to Staar S. A. Power-operated device for assisting loading and unloading a disc player. 4,682,320, 7-21-87, Cl. 369-77.100.
d'Alayer de Costemore d'Arc, Stephane M. A., to Staar S.A. Control system for record changer apparatus. 4,706,235, 11-10-87, Cl. 369-33.000.
D'Albaret, Bertrand; and Colombani, Antoine, to Compagnie D'electronique et de Piezo-electricite. Dielectric filter with variable central frequency. 4,714,906, 12-22-87, Cl. 333-202.000.
Dalbo, Emil J.: *See—*
  Dalbo, Lorraine E.; and Dalbo, Emil J., 4,664,302, Cl. 223-109.00R.
Dalbo, Lorraine E., and Dalbo, Emil J. Threaded needle holder for needle craft projects. 4,664,302, 5-12-87, Cl. 223-109.00R.
Dalby, James F. Passive thermal radiator for earth orbiting satellite. 4,669,685, 6-2-87, Cl. 244-158.00R.
Dalby, John C., Jr.; and Ward, Charles E. W., to American Telephone and Telegraph Company. Agent communication arrangements for telecommunication systems. 4,656,623, 4-7-87, Cl. 370-60.000.
Dalcanale, Enrico, to Montedison S.p.A. Process for the preparation of 2-alkyl cyclopent-2-enones. 4,673,759, 6-16-87, Cl. 560-122.000.
Daldry, Kenneth J., Fischman, Martin; and Rehkopf, Charles H., to North American Philips Consumer Electronics Corp. High voltage processing of CRT mounts. 4,682,963, 7-28-87, Cl. 445-5.000.
Dale Electronics, Inc.: *See—*
  Kneifel, Jerome J., 4,716,396, Cl. 338-226.000.
  Person, Herman R.; Raesner, Dennis L.; and Meints, Gayle L., 4,692,655, Cl. 313-15.000.
Dale Electrons, Inc.: *See—*
  Person, Herman R., 4,641,114, Cl. 333-161.000.
Dale, M. Clark; Wankat, Philip C.; and Okos, Martin R., to Bio-Process Innovation, Inc. Immobilized cell reactor-separator with simultaneous product separation and methods for design and use thereof. 4,665,027, 5-12-87, Cl. 435-162.000.
Dale (Mansfield) Limited: *See—*
  Dring, Eric, 4,710,104, Cl. 417-53.000.
Dalebout, Melvin W.: *See—*
  Sias, Ralph M.; Hurley, Nancy J.; and Dalebout, Melvin W., 4,673,605, Cl. 428-120.000.
Dalebout, William T.; Vassoughi, Sohrab; Martinell, William J.; Rohrer, David C.; Martinell, Steven W.; and Marchant, Robert L., to Pro Form.,Inc. General purpose exercise machine. 4,684,126, 8-4-87, Cl. 272-134.000.
Daleco, Inc.: *See—*
  Greenbacker, Dale E., 4,648,382, Cl. 126-348.000.
D'Aleo, Michael J.; and Smaich, Mark, to Lutron Electronics Co., Inc. Safety device for apparatus having relatively movable members. 4,695,820, 9-22-87, Cl. 338-179.000.
Daler, Helmo: *See—*
  Muller, Klaus; Mutz, Bernd; and Daler, Helmo, 4,714,392, Cl. 411-175.000.
D'Alessio, Michael S.; Sandler, Stanley A.; Smith, Gary; and Herman, Gerald, to Harsco Corporation. Scaffolding system for sloped surfaces. 4,671,382, 6-9-87, Cl. 182-128.000.
Daley, Edward, to Colebrand Limited. Underwater painting. 4,641,601, 2-10-87, Cl. 118-305.000.
Daley, Frank E.; and Wilhelm, Richard H. Batch cleaning apparatus. 4,635,666, 1-13-87, Cl. 134-172.000.
Daley, Thomas R.: *See—*
  Holming, Robert; Nelson, Robert S.; and Daley, Thomas R., 4,715,546, Cl. 241-171.000.
Daley, William D.; and Jaffe, James, to General Chemical Corporation. Production of sulfur trioxide, sulfuric acid and oleum. 4,643,887, 2-17-87, Cl. 423-533.000.
Dalglish, Herbert F. Intravenous tube assembly. 4,690,674, 9-1-87, Cl. 604-93.000.
Dalibout, Georges; Grenier, Michel; and Cieplinski, Daniel, to WABCO Westinghouse Equipements Ferroviaires S.A. Double-piston master cylinder with central booster-driven piston driving surrounding low pressure piston. 4,703,623, 11-3-87, Cl. 60-577.000.
Dalier, Paul H.: *See—*
  Hayatdavoudi, Asadollah; and Dalier, Paul H., 4,688,650, Cl. 175-324.000.
Dall, Didier; Euzen, Jean-Paul; Patoux, Remy; and Renard, Pierre, to Institut Francais du Petrole. Process for withdrawing catalyst particles from a reaction zone. 4,659,455, 4-21-87, Cl. 208-152.000.
Dallaire, Serge; and Champagne, Blaise. TiB_2-based materials and process of producing the same. 4,673,550, 6-16-87, Cl. 419-12.000.
Dallal, Joseph A.; and Rubinstein, Arnold, to Zotos International, Inc. Hair conditioning and enhancing applicator wrap, composition and method. 4,658,839, 4-21-87, Cl. 132-7.000.
Dallas Semiconductor Corporation: *See—*
  Jiang, Ching-Lin; and Lee, Robert D., 4,654,829, Cl. 365-229.000.
  Lee, Robert D., 4,713,555, Cl. 307-66.000.
  Smith, John W., Jr.; Scherpenberg, Francis A.; Jiang, Ching-Lin; and Bolan, Michael L., 4,645,943, Cl. 307-150.000.
  Williams, Clark R., 4,709,172, Cl. 307-585.000.
Dallatomasina, Franco: *See—*
  Cambiaghi, Stefano; Dallatomasina, Franco; Giardino, Pietro; Murador, Enzo; and Spreafico, Gaspare, 4,668,625, Cl. 435-70.000.
  Oppici, Ernesto; Dallatomasina, Franco; and Giardino, Pietro, 4,656,304, Cl. 560-41.000.
Dallenbach-Toelke, Karin: *See—*
  Meszaros, Sandor; Verzar-Petri, Gisela; Nyiredy-Mikita, Klara; Tyihak, Erno; Nyiredy, Szabolcs; Meier, Beat; Sticher, Otto; and Dallenbach-Toelke, Karin, 4,678,570, Cl. 210-198.200.
Dallhammer, Richard; Donig, Gerhard; Gaul, Hartmut; Schmidt, Walter; Neulinger, Franz; and Schummer, Helmut, to Metallgesellschaft Aktiengesellschaft; and Siemens Aktiengesellschaft. Method and apparatus for supplying an electrostatic precipitator with high voltage pulses. 4,670,829, 6-2-87, Cl. 363-57.000.
Dalli, Alan G.: *See—*
  Debenham, Michael, deceased, Carmine, Patrick S., executor; Debenham, Barbara S., executor; Debenham, David, executor; Dalli, Alan G.; and Revill, Peter L., 4,671,720, Cl. 413-58.000.
Dalliard, Fernand, to Ateliers de Constructions Mecaniques de Vevey S.A. Suspended motorized vehicle. 4,641,587, 2-10-87, Cl. 105-3.000.
Dalling, N. Lawrence, and Gordon, Linda A., to Survival Technology, Inc. Audible signal autoinjector training device. 4,640,686, 2-3-87, Cl. 434-262.000.
Dallinger, James F., to New Holland Inc. Paddle wheel assembly for forage harvesters. 4,678,129, 7-7-87, Cl. 241-101.700.
Dallmaier, Gunter, to Paul Troester Machinenfabrik. Apparatus for winding cable on cable drums. 4,679,743, 7-14-87, Cl. 242-54.00R.
Dallman, Ernest R. Access door system. 4,681,044, 7-21-87, Cl. 109-24.100.
Dallmann, Hermann: *See—*
  Hensel, Hartmut; and Dallmann, Hermann, 4,687,699, Cl. 428-213.000.

Hensel, Hartmut; and Dallmann, Hermann, 4,687,700, Cl 428-213.000.

Dall'Osso, Gastone, to G.D. Societa per Azioni. Device for feeding cigarettes to the wrapping line of a packeting machine. 4,693,374, 9-15-87, Cl. 209-535.000.

Dall'Osso, Gastone: *See—*

Mattei, Riccardo; and Dall'Osso, Gastone, 4,667,831, Cl 209-535.000.

Mattei, Riccardo; and Dall'Osso, Gastone, 4,676,360, Cl. 198-377.000.

Mattei, Riccardo; and Dall'Osso, Gastone, 4,693,359, Cl. 198-474.100.

Dallwig, Claus: *See—*

Volk, Hans-Joachim; Becker, Herbert; and Dallwig, Claus, 4,667,982, Cl. 280-808.000.

Dally, Anthony J.: *See—*

Balasubramanyam, Karanam; Dally, Anthony J.; Riseman, Jacob; and Ogura, Seiki, 4,689,113, Cl. 156-643.000.

Dalman, Austin L. Drum for mixing and dispensing feed material. 4,678,342, 7-7-87, Cl. 366-186.000.

Dalman, G. Conrad; and Kondoh, Hiroshi, to Cornell Research Foundation, Inc. Millimeter wave vector network analyzer. 4,680,538, 7-14-87, Cl. 324-58.00R.

Dalmau Guell, Jose M., to Jumberca, S.A. Needle selection arrangement for a circular knitting machine. 4,640,104, 2-3-87, Cl. 66-222.000.

Dalo, Jean; and Dalo, Pierre. Method and device for mounting the pole and cloth of a light shelter with central pole. 4,690,161, 9-1-87, Cl. 135-99.000.

Dalo, Jean: *See—*

Dalo, Pierre; and Dalo, Jean, 4,637,415, Cl. 135-98.000.

Dalo, Pierre; and Dalo, Jean. Light shelter in the form of a tent comprising a roof constituted by a canvas. 4,637,415, 1-20-87, Cl. 135-98.000.

Dalo, Pierre: *See—*

Dalo, Jean; and Dalo, Pierre, 4,690,161, Cl. 135-99.000.

Daloia, Gaetan: *See—*

Andre, Guy; Gollin, Robert; and Daloia, Gaetan, 4,680,834, Cl. 24-16.0PB.

D'Aloia, Valerio C. Trucking business—simulation game. 4,643,430, 2-17-87, Cl. 273-252.000.

D'Aloisio, Rino: *See—*

Venturello, Carlo; Alneri, Enzo; Coassolo, Alfredo; and D'Aloisio, Rino, 4,701,550, Cl. 560-180.000.

Daloz, Joanny, to SEB S.A. Domestic appliance using a hydrophilic powder. 4,694,740, 9-22-87, Cl. 99-323.300.

Daloz, Joanny, to SEB S.A. Device for metering a powdered, granular or liquid product, and apparatus including a device of the kind. 4,715,245, 12-29-87, Cl. 74-522.000.

Dalrymple, John C.: *See—*

Preiss, Richard B.; and Dalrymple, John C., 4,672,369, Cl. 340-728.000.

Dalrymple, Michael B. Device to indicate solar exposure. 4,635,371, 1-13-87, Cl. 33-1.0DD.

Dalseide & Co.: *See—*

Dalseide, Tore, 4,654,938, Cl. 29-81.00E.

Dalseide, Tore, to Dalseide & Co. Descaler head assembly for a descaling machine. 4,654,938, 4-7-87, Cl. 29-81.00E.

Dalsin, Philip D.: *See—*

Bhattacharyya, Bhupati R.; and Dalsin, Philip D., 4,713,431, Cl. 526-207.000.

Dalterio, Michael J.: *See—*

Langner, Guenther O.; Harte, Kenneth J.; Dalterio, Michael J.; and Fishbein, Marvin, 4,675,528, Cl. 250-396.00R.

Dalex Medical Sciences, Inc.: *See—*

Erb, Robert A., 4,690,677, Cl. 604-329.000.

Szabo, Anthony W.; and Hunt, Robert E., 4,676,122, Cl. 74-625.000.

Dalton, Charles R. Safety valve for compressed liquid gas. 4,667,694, 5-26-87, Cl. 137-154.000.

Dalton, Claude W.: *See—*

Flora, John H.; Womack, Robert E.; Stinnett, Carlton E.; and Dalton, Claude W., 4,710,710, Cl. 324-220.000.

Dalton, Donald A.; Strife, James R.; and Swindal, James L., to United Technologies Corporation. Buried laser mirror with a multicomponent reflective interlayer. 4,686,684, 8-11-87, Cl. 372-99.000.

Dalton, Edward L., Jr. Method of making a laminated printing plate. 4,684,429, 8-4-87, Cl. 156-323.000.

Dalton, Martin W., to Triton Aquatherm Limited. Automatically adjustable shower head to maintain constant pressure spray. 4,690,334, 9-1-87, Cl. 239-452.000.

Dalton, Michael J. Peritoneal catheter. 4,681,570, 7-21-87, Cl. 604-282.000.

Dalton, Murphy L., Jr. Magnetometer circuit for measuring the period of beat frequency maxima. 4,641,094, 2-3-87, Cl. 324-302.000.

Dalton, Paul V. Dental floss holder. 4,657,033, 4-14-87, Cl. 132-91.000.

Dalton, Raymond F.; Price, Raymond; Quan, Peter M.; and Stewart, David, to Imperial Chemical Industries, PLC. Pyridine dicarboxylic ester metal extractants. 4,683,310, 7-28-87, Cl. 546-321.000.

Dalven, Paul I.: *See—*

Gregor, Harry P.; Dalven, Paul I.; Hildebrandt, James R.; Hodgins, Leonard T.; Laccetti, Anthony J.; and Shamir, Abraham, 4,705,753, Cl. 435-180.000.

Daly, Frank: *See—*

Stjern, Daryl C.; and Daly, Frank, 4,653,919, Cl. 356-350.000.

Daly, Ivor K.: *See—*

Mills, Peter S.; and Daly, Ivor K., 4,660,985, Cl. 366-5.000.

Daly, Jeffery E.; and Schumacher, Percy W., to Reed Tool Company. Mounting means for cutting elements in drag type rotary drill bit. 4,682,663, 7-28-87, Cl. 175-329.000.

Daly, Jeffery E.; and Pastusek, Paul E., to Reed Tool Company. Drill bit having a failure indicator. 4,688,647, 8-25-87, Cl. 175-40.000.

Daly, John W.: *See—*

Jacobson, Kenneth A.; Daly, John W.; and Kirk, Kenneth L., 4,696,932, Cl. 514-263.000.

Daly, Michael J.; and Parr, David T., to BICC Public Limited Company. Optical fibre joint. 4,685,765, 8-11-87, Cl. 350-96.210.

Daly, Richard T.; and Trokel, Stephen L., to Lasers for Medicine. Laser ophthalmic surgical system. 4,638,801, 1-27-87, Cl. 128-303.100.

Dalzell, Julius N.: *See—*

Carr, R. Stephen; Dalzell, Julius N.; Holmes, J. Fred; and Hunt, John M., 4,644,320, Cl. 340-310.00A.

Dalzell, Rex J., to Minnesota Mining and Manufacturing Company. Nonsmearing correction fluid. 4,654,081, 3-31-87, Cl. 106-23.000.

Dalziel, Warren L.; Flanigan, Charles; Daniels, Donald V.; Lee, John S.; and Johnston, James, to Microtek Storage Corporation. Crosstalk shielding assembly for addition to one head of a dual magnetic head assembly. 4,636,902, 1-13-87, Cl. 360-128.000.

Dalziel, Warren L., to Microtek Storage Corporation. Magnetic tape drive with improved tape to head compliance. 4,663,687, 5-5-87, Cl. 360-130.320.

Dam, Naim, to Introtek Corporation. Apparatus for detecting discontinuities in a fluid stream. 4,651,555, 3-24-87, Cl. 73-19.000.

Damadian, Raymond V.: *See—*

Danby, Gordon T.; Damadian, Raymond V.; and Minkoff, Lawrence A., 4,675,609, Cl. 324-318.000.

Damas, James. Device for automatically taking up backlash in gear transmission systems. 4,660,432, 4-28-87, Cl. 74-440.000.

D'Amato, Peter. Wallpaper trimmer. 4,667,409, 5-26-87, Cl. 30-289.000.

D'Amato, Ralph J., to RCA Corporation. Support means for use with a low expansion color-selection electrode. 4,659,958, 4-21-87, Cl. 313-405.000.

Dambietz, Hans-Peter: *See—*

Olsen, Willi; Lorenz, Dieter; and Dambietz, Hans-Peter, 4,659,886, Cl. 200-148.00R.

Dambkes, Georg: *See—*

Konkol, Werner; Bahrmann, Helmut; Dambkes, Georg; Gick, Wilhelm; Wiebus, Ernst; and Bach, Hanswilhelm, 4,711,648, Cl. 55-73.000.

Dambkes, Heinrich; Herzog, Hans-J.; and Jorke, Helmut, to Licentia Patent-Verwaltungs-GmbH. Modulation doped field effect transistor with doped Si_xGe_{1-x}-intrinsic Si layering. 4,710,788, 12-1-87, Cl. 357-22.000.

Dambre, Paul, to N.V. Bekaert S.A. Ferrous substrate with rubber adherent metal coating and method of making the same. 4,645,718, 2-24-87, Cl. 428-625.000.

Dambre, Paul, to N.V. Bekaert S.A. Layered steel cord. 4,651,513, 3-24-87, Cl. 57-217.000.

D'Ambrosio, Louis J. Apparatus for baseball batting practice. 4,708,343, 11-24-87, Cl. 273-26.00R.

D'Ambrosio, Steven M.: *See—*

Trewyn, Ronald W.; and D'Ambrosio, Steven M., 4,687,733, Cl. 435-7.000.

Dame, John B.; Williams, Jackie L.; McCutchan, Thomas F.; and Schneider, Imogene, to United States of America, Army. Immunologically active peptides capable of inducing immunization against malaria and genes encoding therefor. 4,707,357, 11-17-87, Cl. 424-88.000.

Dame, John B.: *See—*

McCutchan, Thomas F.; and Dame, John B., 4,707,445, Cl. 435-91.000.

Damelet, Jean L.: *See—*

Le Gal, Herve; and Damelet, Jean L., 4,664,744, Cl. 156-616.00R.

D'Amelia, Ronald P.: *See—*

Weiss, Gilbert; D'Amelia, Ronald P.; Reggio, Richard A.; and Wolf, Stephen H., 4,656,039, Cl. 426-5.000.

D'Amelio, Frank D.; Maxfield, Michelle d.; Esposito, Dominick G.; and Kobyra, Walter B., to American Hospital Supply Corporation. Engine inspection system. 4,659,195, 4-21-87, Cl. 350-574.000.

D'Amelio, Frank D.; Esposito, Dominick G.; and Kobyra, Walter B., to Circon Corporation. Multidirectional viewing borescope. 4,699,463, 10-13-87, Cl. 350-96.260.

Damen, Johannes P. M.; Prijs, Klaas; Witmer, Cornelis H. M.; and de With, Gijsbertus, to U.S. Philips Corporation. Method of manufacturing a glass-bonded magnetic head having diffusion barriers. 4,665,612, 5-19-87, Cl. 29-603.000.

Dameron, Woodal W., to Cantrell Machine Co. Poultry line divider. 4,689,855, 9-1-87, Cl. 17-11.000.

Damerow, Milton F.; and Kocin, Michael J., to TRW Inc. Dual printed circuit board module. 4,689,721, 8-25-87, Cl. 361-388.000.

Damiani, Fernando, to COMAU S.p.A. Automatic apparatus for induction hardening. 4,673,785, 6-16-87, Cl. 219-10.570.

Damiani, Martin R.: *See—*

Murdock, Keith C.; Damiani, Martin R.; and Durr, Frederick E., 4,696,935, Cl. 514-297.000.

Damiano, Mary. Handbag for playing bingo. 4,646,804, 3-3-87, Cl. 150-112.000.

Damiano, Michael A.; Schmerda, Richard F.; and Searing, Lawrence G., to Eaton Corporation. Speed control system with feedback and soft-start. 4,638,226, 1-20-87, Cl. 318-345.00R.

Damiano, Michael A.; and Schmerda, Richard F., to Eaton Corporation. DC or AC solid state switch with improved line-derived control circuit power supply. 4,649,302, 3-10-87, Cl. 307-584.000.

- Damiano, Michael A.; and Schmerda, Richard F., to Eaton Corporation. Blown fuse indicator. 4,691,197, 9-1-87, Cl. 340-638.000.
- D'Amico, Arnaldo: *See—*
  - Antonini, Bruno; Borghese, Camillo; D'Amico, Arnaldo; DeGasperis, Paolo; Paoletti, Antonio; Paroli, Paolo; Petrocco, Giovanni; Tucciarone, Aldo; and Scarinci, Fernando, 4,640,629, Cl. 374-178.000.
- D'Amico, Carl: *See—*
  - Sjogren, Christer A.; and D'Amico, Carl, 4,678,387, Cl. 414-47.000.
- Damico, Dennis J. Structural adhesive formulations. 4,703,089, 10-27-87, Cl. 525-245.000.
- Damico, Joyce A.; Weber, Rebecca J.; and O'Connor, James J., to Kimberly-Clark Corporation. Bowed, trough-like absorbent pad. 4,668,230, 5-26-87, Cl. 604-385.00A.
- Damico, Joyce A.: *See—*
  - Ales, Thomas M.; Strohbeen, David T.; Damico, Joyce A.; Van Gempel, Paul T.; and Abel, Kent W., 4,639,949, Cl. 2-400.000.
  - Ales, Thomas M.; Strohbeen, David T.; and Damico, Joyce A., 4,642,819, Cl. 2-400.000.
  - Heran, William M.; Fleischer, Glen R.; Damico, Joyce A.; and Van Gompel, Paul T., 4,641,381, Cl. 2-400.000.
  - Heran, William M.; Fleischer, Glen R.; Damico, Joyce A.; and Van Gompel, Paul T., 4,646,362, Cl. 2-400.000.
- Damin, Bernard: *See—*
  - Denis, Jacques; Sillion, Bernard; Damin, Bernard; and Laupie, Jean-Michel, 4,664,676, Cl. 44-62.000.
- Daming, Kenneth W., to Halliburton Company. Apparatus for releasing a cementing plug. 4,671,353, 6-9-87, Cl. 166-70.000.
- Damiron, Pierre M.; and Legoupil, Jean-Luc, to Clecim. Process and device for bringing a strip traveling in a liquid into contact with a diverting roll. 4,684,451, 8-4-87, Cl. 204-141.500.
- Damkjar, Poul E. Conveyor chain having links of sheet material. 4,676,368, 6-30-87, Cl. 198-852.000.
- Damm, Sture, to Adcon AB. Apparatus for dyeing cellulose fiber material by controlled addition of alkaline material. 4,656,846, 4-14-87, Cl. 68-207.000.
- Damman, Bernardus J.: *See—*
  - Roos, Wouter; Damman, Bernardus J.; Lagendijk, Arie; Steidl, Dieter; and von Schenck, Raban, 4,670,244, Cl. 423-659.000.
- Damman, Cornelis C.; and Plaatsman, Jacob, to Holland Mechanics B.V. Method and apparatus for laying a pneumatic tire around a wheel rim. 4,673,016, 6-16-87, Cl. 157-1.240.
- Dammann, Hans; and Kurz, Heinrich, to U.S. Philips Corporation. Compound optical phase grating and optical switch. 4,679,901, 7-14-87, Cl. 350-162.200.
- Dammann, Hans O. B.: *See—*
  - Tolksdorf, Wolfgang F. M.; Bartels, Inske E. H.; Dammann, Hans O. B.; Klages, Claus-Peter; and Pross, Elke B., 4,712,855, Cl. 350-96.120.
- Dammann, Johannes: *See—*
  - Roderfeld, Heinrich; and Dammann, Johannes, 4,700,717, Cl. 130-27.00T.
- Dammann, Karl-Heinz, to Technika Beteiligungsgesellschaft mbH. Screw type compressor. 4,662,832, 5-5-87, Cl. 418-201.000.
- Dammann, Peter: *See—*
  - Schippers, Heinz; and Dammann, Peter, 4,698,959, Cl. 57-336.000.
- Damon Biotech, Inc.: *See—*
  - Braden William I., 4,673,650, Cl. 435-286.000.
  - Braden, William I., 4,692,284, Cl. 264-4.300.
  - Jarvis, Allan P., Jr.; Koch, George A.; and Abrams, Paul G., 4,680,174, Cl. 424-85.000.
  - Lim, Franklin, 4,690,682, Cl. 604-891.000.
  - Pang, Roy H. L., 4,675,282, Cl. 435-5.000.
  - Tsang, Wen-Ghih; and Shyr, Ann W., 4,663,286, Cl. 435-178.000.
  - Tsang, Wen-Ghih, 4,683,092, Cl. 264-4.300.
- Damon Corporation: *See—*
  - Dorffler, Michael K., 4,642,062, Cl. 446-68.000.
- Damouny, Nabil G.; Huang, Min-Siu; Wilnai, Dan; and Mor, Yeshayahu, to Fairchild Camera & Instrument Corporation. Microprocessor with compact mapped programmable logic array. 4,713,750, 12-15-87, Cl. 364-200.000.
- Damour, Philippe; Patoureau, Alain; Somma, Jack J.; and Thompson, Ronald J., to Federal-Mogul Corporation. Composite thrust bearing formed by a radial bearing with at least one separate axial thrust collar. 4,714,356, 12-22-87, Cl. 384-275.000.
- Damper Design, Inc.: *See—*
  - Hager, Donald K., 4,666,270, Cl. 251-326.000.
  - Neiman, Michael R., 4,655,241, Cl. 137-240.000.
- Dampers S.A.: *See—*
  - Davoust, Joel; and Pelus, Pascal, 4,660,436, Cl. 74-574.000.
- Damron, Tony R. Grapple snubber. 4,679,839, 7-14-87, Cl. 294-119.400.
- Damrow, Paul A.: *See—*
  - Clark, Daniel O.; Tsang, Floris Y.; and Damrow, Paul A., 4,664,990, Cl. 429-104.000.
- Damsky, Walter: *See—*
  - Brockmann, Rolf; Casper, Clemens; Damsky, Walter; Lippert, Axel; and Sajben, Johannes O., 4,637,857, Cl. 159-47.100.
- Damstra, Ate K., to U.S. Philips Corporation. Optical indicator device. 4,672,367, 6-9-87, Cl. 340-657.000.
- Dan Mamtirim: *See—*
  - Zakai, Avraham; and Shfaram, Adiel, 4,702,280, Cl. 137-853.000.
- Dan, Masahiro: *See—*
  - Yokoo, Sadao; Shimomura, Tadashi; Torisawa, Soichi; Dan, Masahiro; and Kaneda, Tsuyoshi, 4,634,270, Cl. 355-125.000.
- Dan, Shigeyuki; Ishii, Kazuo; Kato, Eiichi; and Sera, Hidefumi, to Fuji Photo Film Co., Ltd. Liquid developer for electrostatic photography. 4,665,002, 5-12-87, Cl. 430-114.000.
- Dan, Takashi: *See—*
  - Koga, Hiroshi; Mori, Takashi; Dan, Takashi; and Akima, Michitaka, 4,661,607, Cl. 549-383.000.
- Dan, Takuya; Orikawa, Michihiro; and Kojima, Hiroshi, to Bridgestone Corporation. Vibration isolating apparatus. 4,660,812, 4-28-87, Cl. 267-140.100.
- Dan, Takuya: *See—*
  - Uno, Takaaki; Dan, Takuya; and Orikawa, Michihiro, 4,702,346, Cl. 181-207.000.
- Dana Corporation: *See—*
  - Booth, Dwight E.; and Cory, Michael L., 4,685,202, Cl. 29-607.000.
  - Campbell, Edward N., 4,711,439, Cl. 269-277.000.
  - Dick, Wesley M., 4,688,447, Cl. 74-665.00T.
  - Flotow, Richard A., 4,657,124, Cl. 192-13.00R.
  - Flotow, Richard A., 4,660,702, Cl. 192-98.000.
  - Flotow, Richard A., 4,712,659, Cl. 192-13.00R.
  - Flotow, Richard A., 4,715,484, Cl. 192-70.250.
  - Graft, Ronald W., 4,653,773, Cl. 280-673.000.
  - Hardt, John G.; and Shea, Dennis W., 4,643,284, Cl. 192-50.000.
  - Hennon, Erin D.; and Keller, Thomas J., 4,710,038, Cl. 384-569.000.
  - Hermanns, Martin J., 4,651,847, Cl. 180-245.000.
  - Hilker, Gregory J.; and Tieman, Edward A., 4,683,775, Cl. 74-710.000.
  - Jant, Keith H.; and Billiet, Richard L., 4,654,096, Cl. 156-149.000.
  - Jones, Charles R., 4,633,725, Cl. 74-473.00R.
  - Juchnowski, Ray, 4,671,542, Cl. 285-174.000.
  - Kummer, Martin E., 4,667,799, Cl. 192-70.250.
  - Lane, Wendell C., Jr., 4,640,997, Cl. 200-61.540.
  - Lane, Wendell C., Jr., 4,667,067, Cl. 200-61.540.
  - Lane, Wendell C., Jr., 4,700,828, Cl. 206-223.000.
  - Logan, Thomas W., 4,646,880, Cl. 188-18.00A.
  - Miller, Charles L., 4,661,029, Cl. 409-233.000.
  - Nelsen, Christopher P.; and Melton, Robert L., 4,683,753, Cl. 73-655.000.
  - Osenbaugh, Carl D., 4,655,326, Cl. 188-18.00A.
  - Otteson, Jack O., 4,637,485, Cl. 180-175.000.
  - Pearch, Dean A.; and Pung, Thomas F., 4,694,946, Cl. 192-85.0AA.
  - Rinehart, Ronald A., 4,655,630, Cl. 403-342.000.
  - Schultz, Donald C., 4,662,772, Cl. 403-114.000.
  - Shea, Dennis W.; Hart, Albert A.; and Charchian, Loris J., 4,667,767, Cl. 180-247.000.
  - Simpson, John D.; and Butler, Christopher C., 4,645,368, Cl. 403-9.000.
  - Swoveland, Jack E., 4,643,042, Cl. 74-501.50R.
  - Zawodni, Frank W., 4,679,667, Cl. 188-341.000.
- Dana-Farber Cancer Institute, Inc.: *See—*
  - Freedman, Arnold; Nadler, Lee; and Schlossman, Stuart, 4,692,405, Cl. 435-7.000.
  - Schlossman, Stuart; Morimoto, Chikao; and Letvin, Norman, 4,661,446, Cl. 435-7.000.
  - Schlossman, Stuart F.; and Morimoto, Chikao, 4,649,106, Cl. 435-7.000.
- Dana, Merrill A., to Hudson Lock, Inc. Binary switch lock. 4,647,734, 3-3-87, Cl. 200-43.060.
- Dana, William R., to Ameron, Inc. Joint sleeve for pipe with contoured inner surface. 4,703,940, 11-3-87, Cl. 277-207.00A.
- Danaczko, Mark A.; Finn, Lyle D.; Glasscock, M. Sidney; Piazza, Michael P.; Steele, Kenneth M.; and Weaver, Timothy O., to Exxon Production Research Company. Compliant offshore platform. 4,696,603, 9-29-87, Cl. 405-227.000.
- Danagraf A/S: *See—*
  - Holm, Niels E., 4,690,548, Cl. 355-77.000.
- Danby, Gordon T.; Damadian, Raymond V.; and Minkoff, Lawrence A., to Fonar Corporation. Nuclear magnetic resonance apparatus including permanent magnet configuration. 4,675,609, 6-23-87, Cl. 324-318.000.
- Danby, Gordon T.: *See—*
  - Minkoff, Lawrence A.; and Danby, Gordon T., 4,707,663, Cl. 324-319.000.
- Danby, Hal C.; and Ritson, Carl, to Critikon, Inc. Medical accessory pole clamp. 4,674,722, 6-23-87, Cl. 248-231.300.
- Danby, Philip, to Refac Electronics Corporation. Polyphase electrical signal measuring apparatus. 4,641,090, 2-3-87, Cl. 324-107.000.
- Danby Pty. Ltd.: *See—*
  - Allen, Peter, 4,678,370, Cl. 405-154.000.
- Dancer, Paul: *See—*
  - Buisine, Paul H., and Dancer, Paul, 4,705,459, Cl. 417-53.000.
- Danchulis, James E. Exercise apparatus with locking means. 4,700,942, 10-20-87, Cl. 272-73.000.
- Dancy, Michael J.: *See—*
  - Oberoi, Bhushan K.; and Dancy, Michael J., 4,661,054, Cl. 415-254.000.
- Dancygier, Gerard R. W.: *See—*
  - Marandet, Andre J. P.; and Dancygier, Gerard R. W., 4,668,886, Cl. 310-93.000.
- Dandl, Raphael A., to Applied Microwave Plasma Concepts, Inc. Method and apparatus using electron cyclotron heated plasma for vacuum pumping. 4,641,060, 2-3-87, Cl. 315-111.710.
- D'Andolfo, Francesco; Grampa, Fulvio; Mazzacchera, Giuseppe; and Rolando, Aurelio, to Snia Fibre S.p.A. Single-stage process for the high speed production of continuous polyamidic-base synthetic threads, and products obtained thereby. 4,675,142, 6-23-87, Cl. 264-103.000.

Dandona, Amar S.; and Luzader, Rex E., to General Battery Corporation. Storage battery vent cap. 4,689,281, 8-25-87, Cl. 429-89.000.

D'Andrade, Bruce M.; and Marino, Joseph A. Toy vehicle with adjustable suspension system. 4,696,655, 9-29-87, Cl. 446-330.000.

D'Andrade, Bruce M. High efficiency battery operated water gun. 4,706,848, 11-17-87, Cl. 222-79.000.

D'Andrea, Ermanno; and D'Andrea, Nicola, to D'Andrea S.p.A. Milling and drilling head for a machine tool. 4,709,455, 12-1-87, Cl. 29-40.000.

d'Andrea, Giacomo: *See*—

Ruelle, Jean-Jacques; d'Andrea, Giacomo; and Asselberghs, Leopold, 4,680,958, Cl. 73-56.000.

D'Andrea, Louis F.: *See*—

Porter, Stuart C.; Woznicki, Edward J.; Grillo, Susan M.; and D'Andrea, Louis F., 4,704,295, Cl. 427-3.000.

D'Andrea, Nicola: *See*—

D'Andrea, Ermanno; and D'Andrea, Nicola, 4,709,455, Cl. 29-40.000.

D'Andrea S.p.A.: *See*—

D'Andrea, Ermanno; and D'Andrea, Nicola, 4,709,455, Cl. 29-40.000.

Dandridge, Anthony: *See*—

Frigo, Nicholas J.; Dandridge, Anthony; and Tveten, Alan B., 4,653,915, Cl. 356-345.000.

Dane, Bernard: *See*—

Lemonnier de Gouville, Jean B.; and Dane, Bernard, 4,690,636, Cl. 431-354.000.

Danebo Parts & Equipment, Inc.: *See*—

Bottem, Dennis J., 4,662,525, Cl. 212-76.000.

Danel, Francois, to Assistance Industrielle Dauphinoise A.I.D. High-torque high ratio transmission. 4,646,587, 3-3-87, Cl. 74-640.000.

Danel, Jean-Sebastien; Delapierre, Gilles; and Michel, France, to Commissariat a l'Energie Atomique. Directional accelerometer and its microlithographic fabrication process. 4,653,326, 3-31-87, Cl. 73-517.00R.

Danestad, Carl-Johan, to Svensk Industrigravyr AB. Method of applying a protective layer on a surface to be subjected to etching. 4,672,019, 6-9-87, Cl. 430-323.000.

Danform Agencies, Inc.: *See*—

Robinson, Edward N., 4,651,466, Cl. 47-19.000.

Danforth, Ronald V.; and Pleau, Medric H., to Packaging Systems International, Inc. Lid sealing machine. 4,691,500, 9-8-87, Cl. 53-478.000.

Danfoss A/S: *See*—

Andersen, Niels L., 4,699,762, Cl. 419-9.000.

Arbjerg, Niels, 4,671,747, Cl. 418-61.00B.

Avelov, Rolf I., 4,669,653, Cl. 236-12.130.

Christiansen, Preben; Eskildsen, Christian; and Thomsen, Svend E., 4,685,295, Cl. 60-459.000.

Dixen, Carl C., 4,642,984, Cl. 60-427.000.

Hansen, Gunnar L., 4,703,682, Cl. 92-12.200.

Hansen, Henning M.; Jacobsen, Hans E.; Hansen, Henry; Lassithiotakis, Konstantin; Pedersen, Allan S.; and Nyrup, John, 4,641,537, Cl. 73-861.120.

Hansen, Knud A., 4,653,573, Cl. 165-33.000.

Hansen, Svend; Rasmussen, Laurits B.; and Klausen, Jorn H., 4,703,773, Cl. 137-597.000.

Hyldal, Jorgen, 4,656,376, Cl. 310-41.000.

Jacobsen, Hans E.; Hansen, Henning M.; Nyrup, John; Hansen, Henry; and Lassithiotakis, Konstantin, 4,635,486, Cl. 73-861.120.

Jacobsen, Hans E.; Hansen, Henning M.; Nyrup, John; Hansen, Henry; and Lassithiotakis, Konstantin, 4,641,536, Cl. 73-861.120.

Jorgensen, Geert, 4,689,595, Cl. 337-107.000.

Knudsen, Hans J., 4,708,156, Cl. 137-117.000.

McCulloch, Robert M.; and Jorgensen, Ove, 4,689,968, Cl. 62-225.000.

Moller, Geert L., 4,669,655, Cl. 236-64.000.

Moller, Henry, 4,654,539, Cl. 307-118.000.

Nissen, Harry S., 4,712,986, Cl. 418-63.000.

Olsson, Per I.; and Sedwall, Yngve G., 4,705,074, Cl. 137-625.460.

Petersen, Jorgen H.; Clausen, Peter J. M.; and Rasmussen, Hilmar O., 4,634,481, Cl. 156-89.000.

Petersen, Jorgen H.; and Clausen, Peter J. M., 4,681,533, Cl. 431-208.000.

Rasmussen, Hilmar O.; Petersen, Jorgen H.; Boe, Ove S.; and Clausen, Peter J. M., 4,687,893, Cl. 219-10.410.

Rasmussen, Ivar; and Pedersen, Poul H. H., 4,696,161, Cl. 60-384.000.

Simonsen, Jens K., 4,653,332, Cl. 73-861.380.

Simonsen, Jens K., 4,669,320, Cl. 73-862.590.

Simonsen, Jens K.; and Moos, Hans J., 4,680,974, Cl. 73-861.380.

Thorsen, Niels P.; Jessen, Gilbert W.; Thomsen, Erik; and Sorensen, Jens R., 4,706,467, Cl. 62-139.000.

Dang, Hiep D.; Beaver, Richard N.; and Pimlott, John R., to Dow Chemical Company, The. Monopolar or bipolar electrochemical terminal unit having a novel electric current transmission element. 4,654,136, 3-31-87, Cl. 204-283.000.

Dang, Hiep D.; Hicks, Roy L.; and Leathers, Joel F. M., to Dow Chemical Company, The. Tentering frame for sheet-like members. 4,660,308, 4-28-87, Cl. 38-102.400.

Dang, Hiep D.; and Beaver, Richard N., to Dow Chemical Company, The. Method for making an electrolytic unit from a plastic material. 4,668,372, 5-26-87, Cl. 204-279.000.

Dang, Hiep D.: *See*—

Beaver, Richard N.; Morris, Gregory J. E.; Dang, Hiep D.; and Pimlott, John R., 4,666,579, Cl. 204-253.000.

Beaver, Richard N.; Morris, Gregory J. E.; Dang, Hiep D.; and Pimlott, John R., 4,666,580, Cl. 204-254.000.

Beaver, Richard N.; Morris, Gregory J.; Pimlott, John R.; and Dang, Hiep D., 4,690,748, Cl. 204-279.000.

Morris, Gregory J. E.; Grosshandler, Sandor; Beaver, Richard N.; Pimlott, John R.; and Dang, Hiep D., 4,673,479, Cl. 204-279.000.

Pimlott, John R.; Beaver, Richard N.; Dang, Hiep D.; and Morris, Gregory J. E., 4,668,371, Cl. 204-253.000.

Pimlott, John R.; Beaver, Richard N.; Dang, Hiep D.; and Morris, Gregory J. E., 4,670,123, Cl. 204-279.000.

Dang, Ryo: *See*—

Ikoma, Toshiaki; Maeda, Hajime; Yanai, Hisayoshi; Dang, Ryo; and Shigyo, Naoyuki, 4,636,824, Cl. 357-23.140.

Konaka, Masami; Shigyo, Naoyuki; and Dang, Ryo, 4,651,411, Cl. 29-576.00W.

Dang, Tuan-Phat; Jenck, Jean; and Morel, Didier, to Rhone-Poulenc Sante. Sulphonated chiral phosphines, their preparation and their use. 4,654,176, 3-31-87, Cl. 260-505.00R.

Dangel, Henry, to Automobiles Dangel. Transmission system for a four-wheel drive vehicle. 4,671,135, 6-9-87, Cl. 74-694.000.

Dangelmaier, Roland: *See*—

Wallis, Kurt; Dangelmaier, Roland; Betz, Ansgar; and Schmid, Heinrich, 4,646,554, Cl. 72-406.000.

D'Angelo, Charles: *See*—

Baldoni, J. Gary, II; and D'Angelo, Charles, 4,686,156, Cl. 428-698.000.

D'Angelo, John: *See*—

Chari, Madabushi V.; Kalafala, Ahmed K.; D'Angelo, John; and Palmo, Michael A., Jr., 4,646,045, Cl. 335-301.000.

D'Angelo, Joseph J.; and D'Angelo, Joseph J., Jr., to Ametek, Inc. Method and apparatus for automatically cutting a web of foam material into sheets and for dispensing the cut sheets. 4,699,031, 10-13-87, Cl. 83-23.000.

D'Angelo, Joseph J., Jr.: *See*—

D'Angelo, Joseph J.; and D'Angelo, Joseph J., Jr., 4,699,031, Cl. 83-23.000.

D'Angelo, Renato; Ramacciotti, Aldo; Repetto, Eugenio; and Tolve, Pietro, to Centro Sperimentale Metallurgico S.p.A. Process for control of continuous casting conditions. 4,645,534, 2-24-87, Cl. 75-10.220.

D'Angelo, Severino; and Kinne, Robert G., to Horiba Instruments Incorporated. Flywheel assembly for dynamometers. 4,688,419, 8-25-87, Cl. 73-117.000.

D'Angelo, Severino, to Horiba Instruments Incorporated. Torque measuring device having dual range load cells. 4,706,507, 11-17-87, Cl. 73-862.080.

D'Angio, Aldo; and Regola, Claudio, to Italtel Societa Italiana Telecomunicazioni spa. Circuit arrangement designed to pick up the error rate in numerical transmission systems. 4,658,399, 4-14-87, Cl. 371-5.000.

Dangschat, Holmer, to Johannes Heidenhain GmbH. Coupling device. 4,660,288, 4-28-87, Cl. 33-1.00L.

Dangschat, Holmer, to Johannes Heidenhain GmbH. Position measuring system comprising at least two scanning units. 4,667,096, 5-19-87, Cl. 250-231.0SE.

Danguillier, Wilhelm: *See*—

Tietze, Jurgen; Danguillier, Wilhelm; Thubeaville, Heinz; Pohl, Siegfried; and Muller, Friedrich, 4,708,196, Cl. 165-47.000.

Danguy des Deserts, Loic M. J.; Michel, Dominique; and Sedillot, Francois G., to Doris Engineering. Oscillating platform on flexible piles for work at sea. 4,684,292, 8-4-87, Cl. 405-202.000.

Danico, Henry F.; and Hammerle, Frederick A., to TRW Inc. Nut and washer assembly. 4,715,756, 12-29-87, Cl. 411-369.000.

Daniel, Andrew D.: *See*—

Dines, Steven; Sfarti, Adrian; and Daniel, Andrew D., 4,648,049, Cl. 364-521.000.

Daniel, Brady R.: *See*—

Zinn, Ben T.; and Daniel, Brady R., 4,699,588, Cl. 432-58.000.

Daniel, Carl P.: *See*—

Clayland, John W., Jr.; and Daniel, Carl P., 4,641,528, Cl. 73-597.000.

Daniel, Charles G. Fingernail cleaner comprising faucet attachment which provides shielded jet stream. 4,635,656, 1-13-87, Cl. 132-75.000.

Daniel, Dale M.; and Watkins, Kay R., to Medmetric Corporation. System for establishing ligament graft orientation and isometry. 4,712,542, 12-15-87, Cl. 128-92.00V.

Daniel, Daniel S.: *See*—

Babb, Bruce E.; and Daniel, Daniel S., 4,670,385, Cl. 435-28.000.

Daniel Industries, Inc.: *See*—

Allen, Charles R.; and Harshman, Jack D., 4,715,234, Cl. 73-861.910.

Hulsey, Eldon E., 4,665,946, Cl. 137-625.300.

Daniel, Maurice. Self-illumination patch assembly. 4,667,274, 5-19-87, Cl. 362-106.000.

Daniel, Maurice. Light emitting optical fiber assemblies including light controlling. 4,715,700, 12-29-87, Cl. 350-618.000.

Daniel, Michael R.: *See*—

Adam, John D.; and Daniel, Michael R., 4,675,682, Cl. 342-375.000.

Daniel, Paul C. Fuel tank cap for general usage. 4,676,393, 6-30-87, Cl. 220-323.000.

Daniel, Phillip G.: *See*—

Southern, Thomas W.; and Daniel, Phillip G., 4,643,267, Cl. 177-190.000.

Daniel, R. A. Portable motorized bed lift apparatus. 4,644,595, 2-24-87, Cl. 5-81.00R.

Daniel, Richard A.: *See—*
  Hong, Vuong B.; Rowson, Stuart C.; Daniel, Richard A.; and Rostek, Paul M., 4,638,256, Cl. 328-105.000.
Daniel, Sam M.: *See—*
  King, Thomas M.; and Daniel, Sam M., 4,660,143, Cl. 364-200.000.
Daniel, Steven A.; and Laylock Rick A., to Caterpillar Inc. Planetary wheel drive assembly. 4,649,772, 3-17-87, Cl. 74-785.000.
Daniel, Vernon T.: *See—*
  Best, Robert H.; and Daniel, Vernon T., 4,656,704, Cl. 28-170.000.
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Daniele, Joseph J.: *See—*
  Yip, Kwok-leung; Araghi, Mehdi N.; Daniele, Joseph J.; Banton, Martin E.; Kramer, Charles J.; and Ritter, Joachim A., 4,639,073, Cl. 350-6.800.
Daniele, Robert A., Jr.: *See—*
  Greene, George H.; and Daniele, Robert A., Jr., 4,661,405, Cl. 428-391.000.
Danieli & C. Officine Meccaniche SpA: *See—*
  Braidotti, Archimede; Mini, Renzo; and Roseano, Giancarlo, 4,660,712, Cl. 198-434.000.
  Cicin-Sain, Ivo, 4,682,428, Cl. 37-104.000.
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  Dure, Antonino, 4,641,512, Cl. 72-201.000.
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  Duri, Antonino, 4,711,340, Cl. 198-451.000.
  Fasano, Fulvio, 4,685,506, Cl. 164-416.000.
  Poloni, Alfredo, 4,641,511, Cl. 72-160.000.
  Poloni, Alfredo, 4,679,801, Cl. 277-53.000.
  Poloni, Alfredo; and Nonini, Geremia, 4,704,889, Cl. 72-428.000.
  Poloni, Alfredo; Drigani, Fausto; and Canzutti, Roberto, 4,714,355, Cl. 384-193.000.
  Roseano, Giancarlo, 4,712,666, Cl. 198-503.000.
Danieli, Diego, to Calzaturificio F.lli Danieli S.p.A. Diversifiable compliance sole structure. 4,680,875, 7-21-87, Cl. 36-31.000.
Daniell, Michael G.; and Martin, Gerald S., to Fisher & Paykel, Private Bag. Clamp valves. 4,634,092, 1-6-87, Cl. 251-7.000.
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  Elsworth, Adrian J.; Daniell, Michael G.; Zwaan, Paul; and Stewart, David P. M., 4,708,831, Cl. 261-130.000.
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  Portmann, Niklaus; and D'Aniello, Alfonso, 4,641,008, Cl. 219-84.000.
Daniels, David L.: *See—*
  Hinch, Henry H.; Boyne, Gail E.; Daniels, David L.; and Kullmann, Eugene V., 4,710,946, Cl. 378-62.000.
Daniels, Donald V.: *See—*
  Dalziel, Warren L.; Flanigan, Charles; Daniels, Donald V.; Lee, John S.; and Johnston, James, 4,636,902, Cl. 360-128.000.
  Harrison, Joel N.; Daniels, Donald V.; and Brown, David A., 4,660,106, Cl. 360-77.000.
Daniels, Edward P., to Pitney Bowes Inc. Postage metering system with display. 4,638,439, 1-20-87, Cl. 364-446.000.
Daniels, Edward P.: *See—*
  Mallozzi, Joseph; Dinan, David E.; and Daniels, Edward P., 4,642,791, Cl. 364-900.000.
Daniels, Erwin: *See—*
  Schneider, Horst; Schmidt, Wilhelm; and Daniels, Erwin, 4,673,249, Cl. 350-287.000.
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Daniels, James A., to Imperial Chemical Industries PLC. Polyketone. 4,711,945, 12-8-87, Cl. 528-86.000.
Daniels, James W., to Boeing Company, The. High-speed transient pulse height counter. 4,670,711, 6-2-87, Cl. 324-77.00A.
Daniels, Jay S., to Ross Daniels, Inc. Nozzle structure for a root feeding device. 4,705,218, 11-10-87, Cl. 239-271.000.
Daniels, Jerry. Laminated fastening strap. 4,643,932, 2-17-87, Cl. 428-100.000.
Daniels, Jerry. Weight lifting belt. 4,689,833, 9-1-87, Cl. 2-322.000.
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  Vernooij, Marinus G.; and Daniels, John A. J., 4,644,226, Cl. 315-50.000.
Daniels, John R.; Engelson, Erik T.; and Vegh, Garbriel B., to Target Therapeutics. Catheter device. 4,655,746, 4-7-87, Cl. 604-53.000.
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  Powell, Theo J.; Bellay, Jeffrey D.; Daniels, Martin D.; and Hwang, Yin-Chao, 4,710,933, Cl. 371-25.000.
  Tubbs, Graham S.; Daniels, Martin D.; Schaaf, Robert; and Walther, Ronald, 4,667,339, Cl. 377-79.000.
Daniels, Paul J. Dispenser for a beverage prepared from a granulated material. 4,674,657, 6-23-87, Cl. 222-129.400.
Daniels, Paul R., to International Business Machines Corporation. Method and apparatus for formatting a line of text containing a complex character prior to text justification. 4,689,764, 8-25-87, Cl. 364-900.000.
Daniels, Ronald; and Turpin, Robert B., to Daniels, Ronald. Lightweight roofing module and apparatus and method for manufacturing same. 4,676,729, 6-30-87, Cl. 425-337.000.
Daniels, Timothy R.: *See—*
  Deaton, Thomas P.; and Daniels, Timothy R., 4,648,199, Cl. 43-100.000.
  Miller, Daniel R.; Daniels, Timothy R.; and Deaton, Thomas P., 4,648,200, Cl. 43-102.000.
Daniels, Wilbert E.; and Fraser, Dana J., to Fairchild Semiconductor Corporation. Low impedance package for integrated circuit die. 4,680,613, 7-14-87, Cl. 357-72.000.
Danielsen, Geir; and Thomfohrde, Heiner, to Siemens Aktiengesellschaft. Housing for a radio apparatus. 4,658,439, 4-14-87, Cl. 455-301.000.
Danielski, Andrew: *See—*
  Hascal, Marcel; Lopez, Sergio; Danielski, Andrew; and Mihai, Adrian, 4,714,915, Cl. 340-657.000.
Danielson, Lincoln V.: *See—*
  Beck, Willi K.; Danielson, Lincoln V.; and Strange, Andrew, 4,684,769, Cl. 200-61.890.
  Beck, Willi K.; and Danielson, Lincoln V., 4,698,466, Cl. 200-61.780.
Danielson, Oscar. Trailer hitch coupling device. 4,687,720, 8-18-87, Cl. 280-477.000.
Danielson, Paul S., to Corning Glass Works. Molybdenum sealing glasses. 4,693,987, 9-15-87, Cl. 501-70.000.
Danielson, Philip. Desorption of water molecules in a vacuum system using ultraviolet radiation. 4,660,297, 4-28-87, Cl. 34-4.000.
Danielson, Susan J.: *See—*
  Frickey, Paul H.; Sanford, Karl J.; Dappen, Glen M.; Thunberg, Allen L.; Sundberg, Michael W.; and Danielson, Susan J., 4,670,381, Cl. 435-007.000.
Danielsson, Jan-Erik, to Rolf Ahlbergs Mekaniska Verkstad AB. Collapsible wheel-chair and apparatus for lifting the wheel-chair into and out from an automobile. 4,661,035, 4-28-87, Cl. 414-550.000.
Daniewski, Andrzej R.: *See—*
  Achmatowicz, Barbara; Daniewski, Andrzej R.; Marczak, Stanislaw; Pankowski, Jacek; and Wicha, Jerzy, 4,707,554, Cl. 549-214.000.
Danilenko, Michael; Rusterholz, John T.; and Lahti, Archie E., to Unisys Corporation. Instruction buffer for a digital data processing system. 4,691,279, 9-1-87, Cl. 364-200.000.
Danilov, Boris B.: *See—*
  Kostylev, Alexandr D.; Danilov, Boris B.; Smolyanitsky, Boris N.; Boginsky, Vladimir P.; Kogan, David I.; Smirnov, Oleg V.; and Saveliev, Vyacheslav N., 4,705,119, Cl. 175-92.000.
  Kostylev, Alexandr D.; Boginsky, Vladimir P.; Smolyanitsky, Boris N.; Syryamin, Jury N.; Danilov, Boris B.; Kogan, David I.; and Saveliev, Vyacheslav N., 4,709,768, Cl. 175-296.000.
Danilowicz, Paul S.: *See—*
  Burr, Donald N.; Danilowicz, Paul S.; Franz, Thomas C.; Mortimer, Thomas P.; and Pero, Edward B., 4,696,156, Cl. 60-39.080.
Danilyak, Sergei N.: *See—*
  Paton, Boris E.; Vasiliev, Vsevolod V.; Bogdanovsky, Valentin A.; Baranov, Alexandr I.; Danilyak, Sergei N.; Schegolev, Viktor A.; Chernoivanov, Vladimir A.; Voloshin, Vitaly I.; Gavva, Viktor M.; and Bernadsky, Vsevolod N., 4,680,014, Cl. 434-234.000.
  Paton, Boris E.; Vasiliev, Vsevolod V.; Bogdanovsky, Valentin A.; Danilyak, Sergei N.; Gavva, Viktor M.; Roiko, Jury P.; and Nushko, Valery A., 4,716,273, Cl. 219-130.010.
  Vasiliev, Vsevolod V.; Danilyak, Sergei N.; Levina, Anna I.; Nushko, Valery A.; and Roiko, Jury P., 4,689,021, Cl. 434-234.000.
Danino, David; and Ben-Meir, Shachar, to Cybertronics Ltd. Puzzle-type game. 4,651,992, 3-24-87, Cl. 273-155.000.
Danis, Gary P.: *See—*
  Hershfield, Alan; and Danis, Gary P., 4,642,843, Cl. 16-87.40R.
Danish Hyperthermia Foundation, The: *See—*
  Andersen, Jorgen B.; and Raskmark, Povl, 4,702,262, Cl. 128-804.000.
Danjell, Barbara, to Danjell Creations, Inc. "Neon look" lighting. 4,711,044, 12-8-87, Cl. 40-543.000.
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  Danjell, Barbara, 4,711,044, Cl. 40-543.000.
Danke, Jeffrey G.: *See—*
  Bradway, David W.; and Danke, Jeffrey G., 4,699,011, Cl. 73-823.000.
Danker, Otto J. Bicycle wheel safety insert. 4,676,595, 6-30-87, Cl. 350-99.000.
Danko, Arthur J.: *See—*
  Woller, Burnell J.; and Danko, Arthur J., 4,657,458, Cl. 411-182.000.
Danko, Oliver L.; Bork, Carl R., Jr.; Steiss, William C.; and Levengood, Donald A., to Nupro Company. High pressure inverted bellows valve. 4,634,099, 1-6-87, Cl. 251-335.300.
Danko, Oliver L.; and Bork, Carl R., Jr., to Nupro Company. Inverted bellows valve. 4,687,017, 8-18-87, Cl. 137-315.000.
Dankoff, Joseph D.: *See—*
  Beltz, Robert J.; and Dankoff, Joseph D., 4,705,565, Cl. 75-235.000.

Dankowski, Manfred, to Degussa Aktiengesellschaft. Process for the production of monoperoxydicarboxylic acids and their salts. 4,650,612, 3-17-87, Cl. 260-502.00R.

Danley, Allen M., to Plastics, Inc. Drive motor assembly and turntable utilizing the same. 4,647,745, 3-3-87, Cl. 219-10.55F.

Danloup, Andre ; Galzandat, Pierre; Hubin, Claude; and Storino, Charles, to Essilor International (Compagnie Generale d'Optique). Spectacles formed of a frame and a saddle bridge. 4,707,089, 11-17-87, Cl. 351-138.000.

Danmarks Geotekniske Institut: *See—*
  Vesterby, Hans, 4,645,377, Cl. 405-74.000.

Danna, Joseph J.: *See—*
  Acklin, John R.; Bush, Lee W.; Danna, Joseph J.; Devitt, John L.; and Rauh, George A., 4,645,094, Cl. 222-52.000.

Dannals, Robert F.: *See—*
  Burns, Hugh D.; Zemyan, Susan E.; Epps, Leon A.; Kramer, Alfred V.; and Dannals, Robert F., 4,638,051, Cl. 534-14.000.

Danne, Lutz: *See—*
  Bortfeld, Harald; Danne, Lutz; Lehrmann, Joachim; and Klatt, Alfred, 4,660,430, Cl. 74-335.000.

Dannels, Bobby F., to Occidental Chemical Corporation. Chlorotrifluoroethylene telomerization process. 4,691,065, 9-1-87, Cl. 570-139.000.

Danner, Bernard, to Sandoz Ltd. Aqueous wax dispersions useful as textile finishing agents. 4,675,022, 6-23-87, Cl. 8-115.560.

Danner, Bernard; and Ruynon, James R., to Sandoz Ltd. Hydrophilic cationic copolymers of acrylamide or methacrylamide. 4,696,962, 9-29-87, Cl. 524-140.000.

Danner, Gary A., and Sherman, Raymond W., to General Kinematics Corporation. Vibratory separation apparatus. 4,715,950, 12-29-87, Cl. 209-20.000.

Danner, Michael E., and Hieber, Thomas E., to Sperti Drug Products, Inc. Method and apparatus for producing a product which stimulates skin respiration and product produced thereby. 4,698,166, 10-6-87, Cl. 210-774.000.

Dannert, Horst; Ganser, Hans-Gunther; Schafer, Ralf; and Stormberg, Hans-Peter, to U.S. Philips Corporation. Circuit arrangement for igniting and operating gas discharge lamps. 4,714,862, 12-22-87, Cl. 315-244.000.

Danninger Medical Technology, Inc.: *See—*
  Funk, Daniel A., and Yates, Jan B., 4,651,719, Cl. 128-25.00R.
  Yates, Jan B.; and Lubbers, Lawrence M., 4,644,938, Cl. 128-26.000.

Danno, Sadaji: *See—*
  Matsuda, Osamu; and Danno, Sadaji, 4,673,580, Cl. 426-385.000.

Danno, Yoshiaki; Takahashi, Akira; and Iida, Kazumasa, to Mitsubishi Jidosha Kogyo Kabushiki Kaisha. Device for controlling engine and method thereof. 4,705,001, 11-10-87, Cl. 123-417.000.

Danno, Yuji: *See—*
  Ito, Akira; Danno, Yuji; and Kawashima, Kouzou, 4,686,422, Cl. 315-74.000.

Dannoura, Sadayuki, to Ube Industries, Ltd. Horizontal mold clamping and vertical injection type die cast machine. 4,655,274, 4-7-87, Cl. 164-341.000.

Dannoura, Sadayuki, to Ube Industries, Ltd. Molten metal pouring device. 4,690,197, 9-1-87, Cl. 164-312.000.

D'Annunzio, Philip. Adjustable ring structure. 4,697,437, 10-6-87, Cl. 63-15.500.

Dano, Paul K., to Del Norte Technology, Inc. Radio ranging, navigation, and location system with correction for systematic errors. 4,636,795, 1-13-87, Cl. 342-387.000.

Danree, Bernard, to Institut de Recherches Chimiques et Biologiques Appliques (I.R.C.E.B.A.). Medical uses of halogenobenzohenoneoxime derivatives. 4,678,810, 7-7-87, Cl. 514-640.000.

Danree, Bernard: *See—*
  Lacolle, Jean-Yves; and Danree, Bernard, 4,659,741, Cl. 514-643.000.

Dansk Eternit-Fabrik A/S: *See—*
  Jensen, Hans E. W.; and Gregersen, Johan C., 4,636,345, Cl. 264-122.000.
  Nielsen, Jens P.; and Gregersen, Johan C., 4,655,981, Cl. 264-162.000.

Dansk Industri Syndikat A/S: *See—*
  Kauserud, Hakon, 4,646,809, Cl. 164-15.000.
  Mogensen, Vagn, 4,678,021, Cl. 164-40.000.

Dansky, Allan H.; Savalle, Martine M. F.; and Schettler, Helmut, to International Business Machines Corporation. Dotted "or" function for current controlled gates. 4,668,879, 5-26-87, Cl. 307-454.000.

Dantec Electronik, Medicinsk Og Videnskabeligt Maleudstyr A/S: *See—*
  Buchhave, Preben; Knuhtsen, John; and Olldag, Peder E. S., 4,701,051, Cl. 356-336.000.

Danti, Bernard R.: *See—*
  Berry, Eric S.; and Danti, Bernard R., 4,661,458, Cl. 435-284.000.

Dantiki, Sudhakar: *See—*
  Storey, Robson F.; Dantiki, Sudhakar; Hogue, Melissa L.; and Bayer, Arthur C., 4,666,978, Cl. 525-35.000.

Dantlgraber, Jorg, to Mannesmann Rexroth GmbH. Hydraulic pump. 4,634,354, 1-6-87, Cl. 418-31.000.

Dantlgraber, Jorg, to Mannesmann Rexroth GmbH. Hydraulic system for charging an accumulator. 4,665,697, 5-19-87, Cl. 60-418.000.

Dantlgraber, Jorg, to Mannesmann Rexroth GmbH. Control valve for a pump with variable displacement volume. 4,674,956, 6-23-87, Cl. 417-220.000.

Dantlgraber, Jorg, to Mannesmann Rexroth G.m.b.H. Adjusting apparatus for a vane pump or radial piston pump. 4,678,412, 7-7-87, Cl. 418-26.000.

Dantlgraber, Jorg; Budel, Josef; and Rub, Josef, to Mannesmann Rexroth GmbH. Variable capacity vane pump with means to vary the area of overlap. 4,697,990, 10-6-87, Cl. 417-204.000.

Dantlgraber, Jorg, to Mannesmann Rexroth GmbH. Rotary pump with adjustable cam ring. 4,697,996, 10-6-87, Cl. 418-31.000.

Danto, Joseph. Brain stimulation of balance response. 4,672,978, 6-16-87, Cl. 128-782.000.

D'Antonio, Nicholas F., to Howmedica, Inc. Electronic drainage system. 4,654,029, 3-31-87, Cl. 604-119.000.

D'Antonio, Nicholas F., and D'Antonio, Nicholas J. Pressure regulation system. 4,698,060, 10-6-87, Cl. 604-320.000.

D'Antonio, Nicholas F.; and D'Antonio, Nicholas J., to Pfizer Hospital Products Group, Inc. Dry bottle drainage system. 4,715,855, 12-29-87, Cl. 604-320.000.

D'Antonio, Nicholas J.: *See—*
  D'Antonio, Nicholas F.; and D'Antonio, Nicholas J., 4,698,060, Cl. 604-320.000.
  D'Antonio, Nicholas F.; and D'Antonio, Nicholas J., 4,715,855, Cl. 604-320.000.

Dantowitz, Philip: *See—*
  McElroy, James F.; Chludzinski, Paul J.; and Dantowitz, Philip, 4,657,829, Cl. 429-19.000.

Dantzig, Jonathan A.: *See—*
  Pryor, Michael J.; Winter, Joseph; and Dantzig, Jonathan A., 4,638,535, Cl. 29-1.300.

Danyliw, Brian H.: *See—*
  McCurdy, John W.; and Danyliw, Brian H., 4,705,672, Cl. 423-3.000.

Danzig, Fred G. Apparatus for ligating blood vessels, nerves and other anatomical structures. 4,667,671, 5-26-87, Cl. 128-325.000.

Danzik, Mitchell, to Chevron Research Company. Process for removing naphthenic acids from petroleum distillates. 4,634,519, 1-6-87, Cl. 208-263.000.

Danzuka, Toshio: *See—*
  Yokota, Hiroshi; Tanaka, Gotaro; Kanamori, Hiroo; Mizutani, Futoshi; and Danzuka, Toshio, 4,668,263, Cl. 65-3.110.

Dao, Kim. DC power supply with compensated current reference. 4,646,220, 2-24-87, Cl. 363-28.000.

Dao, Le H.: *See—*
  Le Van Mao, Raymond; and Dao, Le H., 4,698,452, Cl. 585-640.000.

D'Aoust, Brian G. Multiple parameter temperature, dissolved gas and atmospheric pressure measuring method and apparatus. 4,662,210, 5-5-87, Cl. 73-19.000.

Daoust, Daniel J. M.; Devaux, Jacques J.; Legras, Roger M.; Mercier, Jean P.; and Nield, Eric, to Imperial Chemical Industries PLC. Aromatic polyetherketones. 4,657,990, 4-14-87, Cl. 525-471.000.

D'Aoust, James R., to GA Technologies Inc. Apparatus for distributing the heat load to the first wall from the plasma in an OHTE-type high-energy plasma device. 4,654,182, 3-31-87, Cl. 376-136.000.

D'Aoust, Ronald R.: *See—*
  Charlebois, Leonard J.; Scott, James R.; and D'Aoust, Ronald R., 4,654,474, Cl. 174-88.00R.

Dappen, Glen M., to Eastman Kodak Company. Assay for analysis of whole blood. 4,637,978, 1-20-87, Cl. 435-11.000.

Dappen, Glen M.: *See—*
  Frickey, Paul H.; Sanford, Karl J.; Dappen, Glen M.; Thunberg, Allen L.; Sundberg, Michael W.; and Danielson, Susan J., 4,670,381, Cl. 435-007.000.
  Washburn, William N.; Cook, Ewell R.; and Dappen, Glen M., 4,672,029, Cl. 435-10.000.

Dapperheld, Steffen, to Hoechst Aktiengesellschaft. Process for the dehalogenation of chloroacetic and bromoacetic acid. 4,707,226, 11-17-87, Cl. 204-81.000.

Dappert, Thomas O.: *See—*
  Magrath, Joseph M.; Tice, Thomas R.; Meyers, William E.; and Dappert, Thomas O., 4,696,258, Cl. 119-1.000.

d'Aprigny, Phillippe D.: *See—*
  Grandin, Claude; Champagneux, Daniel; and d'Aprigny, Phillippe D., 4,676,475, Cl. 249-105.000.

Dar Yu Electronic Co., Ltd.: *See—*
  Chiang, Chun C., 4,713,586, Cl. 315-200.00A.

Daradimos, Georg; Hirsch, Martin; and Schnabel, Wolfram, to Metallgesellschaft Aktiengesellschaft. Process for generating heat and producing sponge iron. 4,676,824, 6-30-87, Cl. 75-36.000.

Darbellay, Jacques; and Dessauges, Gerald, to Ciba-Geigy Corporation. Process for reducing the content of hydrolyzable chlorine in glycidyl compounds. 4,668,807, 5-26-87, Cl. 549-542.000.

Darbenzio, Anthony. Template for embroidery machine. 4,706,583, 11-17-87, Cl. 112-103.000.

Darby, H. Darrell. Shock absorbing surgical shoe. 4,677,767, 7-7-87, Cl. 36-102.000.

Darcie, Thomas E., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Optical local area network employing microwave modulation techniques. 4,701,904, 10-20-87, Cl. 370-3.000.

Darcy, Paul J.: *See—*
  Heller, Harold H.; Oliver, Stephen N.; Whittal, John; Johncock, William; Darcy, Paul J.; and Trundle, Clive, 4,685,783, Cl. 351-163.000.

Dard, Jean-Claude: *See—*
  Ferrari, Alphonse; Roche, Michel; and Dard, Jean-Claude, 4,683,476, Cl. 346-29.000.

Dard, Philippe, to Sciaky S.A. Installation of electron beam metalworking. 4,642,518, 2-10-87, Cl. 315-1.000.

Darda, Helmut; and Schoch, Reinhold. Spring drive for toy vehicles. 4,663,986, 8-4-87, Cl. 185-39.000.

Dardat, Klaus: *See—*
Knothe, Erich; Melcher, Franz-Josef; Ober, Jurgen; Berg, Christoph; Dardat, Klaus; Bierich, Eduard; and Maaz, Gunther, 4,656,599, Cl. 364-567.000.

Darden, Bruce V.: *See—*
Anderson, Jerry M.; Cannon, Thomas C., Jr.; Darden, Bruce V.; and Smith, Donald T., 4,684,195, Cl. 439-404.000.
Cannon, Thomas C., Jr.; Carlisle, Arthur W.; Darden, Bruce V.; and Myers, Clyde J., 4,634,214, Cl. 350-96.200.

Darden, Dennis W., to Brunswick Corporation. Drag washer. 4,664,330, 5-12-87, Cl. 242-84.50A.

Darden, Jerome W.; Triebel, Carol A.; Van Neste, Walter A.; and Maes, Jean P., to Texaco Inc.; and S. A. Texaco Belgium N.V. Monobasic-dibasic acid/salt antifreeze corrosion inhibitor. 4,647,392, 3-3-87, Cl. 252-75.000.

Darden, Jerome W., to Texaco Inc. Corrosion-inhibited antifreeze/coolant composition containing hydrocarbyl sulfonate. 4,657,689, 4-14-87, Cl. 252-75.000.

Darden, Nick: *See—*
Goodale, David L.; and Darden, Nick, 4,694,861, Cl. 137-624.190.

Dardenne, Mireille: *See—*
Bach, Jean-Francois; Dardenne, Mireille; Pleau, Jean-Marie; Hamburger, Jean; Bricas, Evangheios; Martinez, Jean; Blanot, Didier; Auger, Genevieve; Lefrancier, Pierre; and Amor, Bernard, 4,680,276, Cl. 436-542.000.

Dare Products, Inc.: *See—*
Wilson, Robert M., Jr., 4,680,428, Cl. 174-158.00F.

Darecchio, Andrea, to FMC Corporation. Machine and method for cutting, shaping and canning meat, fish and the like. 4,641,487, 2-10-87, Cl. 53-435.000.

Dargan, John. Telephonic data access and transmission system. 4,677,659, 6-30-87, Cl. 379-97.000.

Dargis, Daniel J.: *See—*
Cotie, Gary R.; Culp, Charles H.; Dargis, Daniel J.; Mencala, John M.; and Spielman, Stephen C., 4,667,193, Cl. 340-825.080.

Dargo, David R.: *See—*
Jhabvala, Murzban D.; Dargo, David R.; and Lyons, John C., 4,709,252, Cl. 357-30.000.

D'Argouges, Bertrand; and Dumas, Pierre, to Ducelleeier et Cie. Small motor stator with improved magnet mounting. 4,668,887, 5-26-87, Cl. 310-154.000.

Darian, Saeed T.: *See—*
Zarrineghbal, Hossein; Kittrell, James R.; and Darian, Saeed T., 4,643,820, Cl. 208-222.000.

D'Arienzo, Joseph: *See—*
Saporito, Michael J.; Deleo, Salvatore J.; Lewis, Paul A.; Curtis, Albert E., III; D'Arienzo, Joseph; and Roller, David P., Jr., 4,663,727, Cl. 364-551.000.

Darilek, Glenn T., to Mobil Oil Corporation. Remote switch position determination using constant current signaling. 4,652,876, 3-24-87, Cl. 340-853.000.

Darilek, Glenn T., to Mobil Oil Corporation. Remote switch position determination using duty cycle modulation. 4,695,840, 9-22-87, Cl. 340-825.054.

Dario Manuli S.p.A.: *See—*
Brambilla, Dario, 4,685,270, Cl. 53-176.000.

Daris, Jean-Paul: *See—*
Martel, Alain; and Daris, Jean-Paul, 4,639,335, Cl. 540-304.000.

Darko Jorge Lazaneo Dragicevic: *See—*
De Angelis, Pedro C.; and Dragicevic, Nedo D. L., 4,715,458, Cl. 177-172.000.

Darley, Kenneth S.: *See—*
Banner, Beatrice A.; Richardson, Lucy V.; and Darley, Kenneth S., 4,675,197, Cl. 426-292.000.

Darling, Dale H., to United States of America, Energy. Foam shell cryogenic ICF target. 4,693,938, 9-15-87, Cl. 428-403.000.

Darling, Gilbert R. Tie down device and method. 4,655,376, 4-7-87, Cl. 224-324.000.

Darling, Phillip H. Method of manipulating playing pieces. 4,687,207, 8-18-87, Cl. 273-271.000.

Darling, Richard S.; Goodrich, Stanley R., Jr.; and Holzhausen, Alan D., to General Motors Corporation. Power steering gear with two-way check valve. 4,673,051, 6-16-87, Cl. 180-132.000.

Darlington, W. Bruce; and DuBois, Donald W., to PPG Industries, Inc. Electrolyte permeable diaphragm including a polymeric metal oxide. 4,680,101, 7-14-87, Cl. 204-295.000.

Darlington, W. Bruce: *See—*
DuBois, Donald W.; Dilmore, Colonel R.; and Darlington, W. Bruce, 4,666,573, Cl. 204-98.000.

Darlington, William B., to PPG Industries, Inc. Method for brightening pulp. 4,675,076, 6-23-87, Cl. 162-72.000.

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Dobson, William C.; and Spoeth, Carl R., 4,650,268, Cl. 339-43.000.
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McKenzie, Stuart T.; and Lilley, Clifford N., 4,662,349, Cl. 12 41.00R.
Ming, Wong K., 4,645,905, Cl. 219-297.000.
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Smoot, Michael A.; Barch, Herbert W.; and Das, Balbhadra, 4,689,255, Cl. 428-77.000.
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tin, Richard M.: *See—*
- Appel, James J.; Costanza, Daniel W.; and Dastin, Richard M., 4,687,317, Cl. 355-3.00R.

Daszinnies, Jurgen. Projection screens for two- or three-dimensional front and back projections. 4,652,084, 3-24-87, Cl. 350-117.000.

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Data Card Corporation: *See—*
- Beech, Brian; Rust, Jeff; Meilach, Alan; and LeVasseur, Rod, 4,701,600, Cl. 235-375.000.
- Nubson, Richard C.; Howes, Ronald B., Jr.; Carney, Glenn R.; Gabel, Edward R.; Schmidt, Robert H.; Gerlach, Leroy E.; and Polad, Michael D., 4,688,785, Cl. 271-266.000.
- Nubson, Richard C., 4,695,850, Cl. 346-76.0PH.
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- Georgens, Harold H.; and Christensen, Dean L., 4,635,155, Cl. 360-132.000.
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- Bachman, Brett L.; Bernstein, David H.; Bratt, Richard G.; Clancy, Gerald F.; Gavrin, Edward S.; Gruner, Ronald H.; Jones, Thomas M.; Katz, Lawrence H.; Mundie, Craig J.; Pilat, John F.; Richmond, Michael S.; Schleimer, Stephen I.; Wallach, Steven J.; and Wallach, Walter A., Jr., 4,656,579, Cl. 364-200.000.
- Bernstein, David H.; Buckley, Edward M.; March, Roger W.; and Gusowski, Ronald I., deceased, 4,649,470, Cl. 364-200.000.
- Bowden, Paul, 4,652,996, Cl. 364-200.000.
- Clancy, Gerald F.; Mundie, Craig J.; Schleimer, Stephen I.; Wallach, Steven J.; Bratt, Richard G.; and Gavrin, Edward S., 4,660,142, Cl. 364-200.000.
- Cordeiro, Craig A.; and Graham, John P., 4,680,788, Cl. 379-93.000.
- Epstein, David I.; and Holland, Charles J., 4,679,138, Cl. 364-200.000.
- Erwin, Douglas A.; and Skinner, Robert L., 4,691,295, Cl. 364-900.000.
- Fang, Robert; Wang, Jerry; Liang, Victor; Farb, Joseph; and Hsu, Chung, 4,713,329, Cl. 437-29.000.
- Gershenson, Edward, 4,644,545, Cl. 371-38.000.
- Goodman, Robert W., 4,701,865, Cl. 364-521.000.
- Gruner, Ronald H.; Clancy, Gerald F.; Mundie, Craig J.; Schleimer, Stephen I.; Wallach, Steven J.; Bratt, Richard G.; Gavrin, Edward S.; Wallach, Walter A., Jr.; Ahlstrom, John K.; Richmond, Michael S.; Bernstein, David H.; Pilat, John F.; Farber, David A.; and Belgard, Richard A., 4,675,810, Cl. 364-200.000.
- Hecker, Mark B., 4,709,329, Cl. 364-200.000.
- Johnson, Charles B.; and Gardener, Howard D., 4,644,535, Cl. 370-99.000.
- Latham, Paul W., II, 4,636,748, Cl. 331-17.000.
- Latham, Paul W., II, 4,695,747, Cl. 307-317.00R.
- Lemone, Lou; Faletra, Salvatore; McDaniel, John R.; and Caldara, Steve, 4,685,057, Cl. 364-200.000.
- Marshall, Peter G.; and Goerke, Ulrich B., 4,675,769, Cl. 361-1.000.
- Pilat, John F., 4,652,995, Cl. 364-200.000.
- Pilat, John F.; Jones, Thomas M.; Nealon, James T.; Davidian, Gary; and Bowden, Paul, 4,670,839, Cl. 364-200.000.
- Small, Larry A., 4,684,934, Cl. 340-712.000.
- Smitt, Eric L.; and Collins, Robert J., 4,685,124, Cl. 379-95.000.
- Takla, Nabil, 4,636,976, Cl. 364-900.000.
- Veres, James E.; Stein, James B.; Beauchamp, Robert W.; Kimmens, Harold R.; Baird, David W.; Roman, Michael J.; Therrien, David G.; and Doyle, John J., 4,654,783, Cl. 364-200.000.
- Wallach, Walter A., Jr.; Richmond, Michael S.; Ahlstrom, John K.; Bernstein, David H.; and Bratt, Richard G., 4,661,903, Cl. 364-200.000.

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- Michel, Thomas J., 4,643,308, Cl. 206-444.000.
- Michel, Thomas J., 4,648,189, Cl. 40-546.000.

Data Motion, Incorporated: *See—*
- Wald, Robert D., 4,638,935, Cl. 226-171.000.

Data Recording Instrument Company Limited: *See—*
- O'Connor, Dermot J., 4,685,172, Cl. 16-2.000.

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- Grundtner, Matthias J., 4,668,526, Cl. 427-34.000.

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- Young, Gladstone F.; Green, Richard F.; Miller, S. David; and Quinlan, Thomas J., III, 4,683,564, Cl. 370-63.000.

Data Translation Inc.: *See—*
- Berman, Ari P., 4,703,449, Cl. 364-900.000.

Datacopy Corporation: *See—*
- Lindberg, Charles A., deceased, 4,667,255, Cl. 358-293.000.

Datakey, Inc.: *See—*
- Flies, William P., 4,659,915, Cl. 235-441.000.

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- Grummer, William L.; and Blake, Clifton A., Jr., 4,635,075, Cl. 346-76.0PH.
- Hettich, Adam J., 4,688,742, Cl. 242-192.000.

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- Tompkins, E. Neal; Arends, Thomas C.; and Barry, Michael W., 4,710,917, Cl. 370-62.000.

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  Mustarelli, Piercarlo; Lupoli, Franco; and Negri, Emilio, 4,699,228, Cl. 177-212.000.

Dataproducts Corporation: *See*—
  Jezbera, Val K., 4,699,051, Cl. 101-93.340.
  Mower, Dan C.; Wolf, Peter H.; Slade, Boyd E.; and Albertalli, David, 4,713,623, Cl. 328-72.000.
  Rubinstein, Stanley; and Baker, Stephen B., 4,673,306, Cl. 400-618.000.

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  Lindow, James T.; Bennett, Simon D.; Smith, Ian R.; and Melmon, Gary A., 4,689,491, Cl. 250-572.000.

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  Browder, Lewis B., 4,654,837, Cl. 369-13.000.
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  Mlinaric, Antoon A.; and Neumann, Donald F., 4,647,999, Cl. 360-109.000.

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  Rademakers, Petrus J., 4,639,227, Cl. 441-1.000.

Date, K. Henry; and Wainio, Ronald, to Cooper Industries, Inc. Load break switch. 4,713,505, 12-15-87, Cl. 200-153.0SC.

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  Saito, Syuichiro; Date, Nobuaki; Tezuka, Nobuo; and Okino, Tadashi, 4,689,689, Cl. 358-228.000.
  Tsunekawa, Tokuichi; Date, Nobuaki; Aizawa, Hiroshi; Hosoe, Kazuya; and Urushibara, Kazunori, 4,658,304, Cl. 354-310.000.

Date, Shonan. See saw exercise vehicle. 4,664,400, 5-12-87, Cl. 280-230.000.

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  Nagayama, Takashi; Otani, Mitsunobu; and Date, Tamotsu, 4,707,260, Cl. 210-386.000.

Datlof, Donald I. Quilting aligning apparatus and method. 4,702,184, 10-27-87, Cl. 112-117.000.

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  Seymour, Robert A.; Ritter, Allen M.; Kellogg, Richard A.; and D'Atre, John D., 4,698,577, Cl. 318-805.000.

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  Bruinsma, Robert F., 4,693,629, Cl. 403-170.000.

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Dattilo, Donald P., to Electronic Dust Detection, Inc. Dust detecting ring assembly. 4,677,426, 6-30-87, Cl. 340-627.000.

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  Frantom, Richard L.; Seitz, William R.; and Datwyler, Walter F., Jr., 4,655,312, Cl. 180-268.000.

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  Brezillon, Jean-Loup; and Dauchier, Jean-Michel, 4,689,880, C 29-623.500.

Daude, Gerard: *See*—
  Bravet, Jean L.; Colmon, Daniel; Daude, Gerard; and Moncheau Michel J., 4,652,494, Cl. 428-423.100.
  Bravet, Jean L.; Colmon, Daniel; Daude, Gerard; and Moncheau Michel J., 4,671,838, Cl. 156-246.000.
  Bravet, Jean-Louis; and Daude, Gerard, 4,672,001, Cl. 428-425.60
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Daudelin, Douglas S., to American Telephone and Telegraph Com pany; and AT&T Information Systems Inc. Adaptive thresho detector. 4,652,775, 3-24-87, Cl. 307-359.000.

Daudelin, Douglas S., to AT&T Information Systems Inc. Adaptiv FSK demodulator and threshold detector. 4,716,376, 12-29-87, C 329-107.000.

Daudi, Anwar R., to Motor Wheel Corporation. Apparatus for whe manufacture for correction of rotational non-uniformity of a pne matic tire and wheel assembly. 4,646,434, 3-3-87, Cl. 29-802.000.

Dauer, William E., to Owens-Illinois, Inc. Apparatus for forming a gla bottle finish. 4,662,928, 5-5-87, Cl. 65-307.000.

Dauernheim, Hans: *See*—
  Saupe, Martin; Dauernheim, Hans; and Markl, Maximilia 4,696,645, Cl. 433-125.000.

Daughenbaugh, Norman E., Jr., to Hercules Incorporated. Vin aromatic/terpene/phenol terpolymer. 4,701,517, 10-20-87, C 528-205.000.

Daughenbaugh, Randall J.: *See*—
  Dixon, Dale D.; Daughenbaugh, Randall J.; and Fowlkes, Rober L., 4,645,834, Cl. 544-106.000.
  Dixon, Dale D.; and Daughenbaugh, Randall J., 4,647,663, C 544-106.000.

Daugherty, Charles: *See*—
  Taller, Robert A.; and Daugherty, Charles, 4,661,095, C 604-103.000.

Daugherty, Charles W., to Becton, Dickinson and Company. Metho and apparatus for flashless tipping of an I.V. catheter. 4,661,30 4-28-87, Cl. 264-40.600.

Daugherty, Charles W.: *See*—
  Cartmell, Robert L.; Daugherty, Charles W.; and Ireland, Davi B., 4,710,175, Cl. 604-177.000.

Daugherty, David A.: *See*—
  Machado, Octavio J.; Daugherty, David A.; Andrews, Ronnie B. and Efferding, Larry E., 4,711,758, Cl. 376-272.000.

Daugherty, Ronald R.: *See*—
  Habig, Peter C.; and Daugherty, Ronald R., 4,673,081, C 206-223.000.

Daughtery, Denny E.: *See*—
  Bruegge, Anthony J.; and Daughtery, Denny E., 4,681,696, C 252-99.000.

Daugirda, Paul G.; and Haag, Wilbur L., Jr., to Rheem Manufacturin Company. High efficiency water heater construction. 4,676,19 6-30-87, Cl. 122-17.000.

Dauguet, Charles: *See*—
  Montagnier, Luc; Chermann, Jean-Claude; Barre-Sinoussi, Fra coise; Brun-Vezinet, Francoise; Rouzioux, Christine; Rozen baum, Willy; Dauguet, Charles; Gruest, Jacqueline; Nugeyr Marie-Therese; Rey, Francoise; Axler-Blin, Claudine; Chamare Solange; Gallo, Robert C.; Popovic, Mikulas; and Sarngadharan Mangalasseril G., 4,708,818, Cl. 435-5.000.

Daulasim, Khamphuc: *See*—
  Galand, Claude; and Daulasim, Khamphuc, 4,677,671, C 381-31.000.

Daulon, Jean-Marc: *See*—
  Berillon, Jean-Bernard; Daulon, Jean-Marc; and Maurel, Jean Philippe, 4,667,720, Cl. 152-501.000.

Daum, Ronald E., to General Motors Corporation. Electrical connec tor for printed circuits. 4,639,057, 1-27-87, Cl. 339-17.00F.

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Daum, Sol J.; and Lesher, George Y., to Sterling Drug Inc. 1-ethyl-6 fluoro-1,4-dihydro-7-(2,6-dimethyl-4-pyridinyl)-4-oxo-3-

quinolinecarboxylic acid and antibacterial use thereof. 4,698,350, 10-6-87, Cl. 514-312.000.

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umer, Rolf: *See*—

Bohmler, Heinz; and Daumer, Rolf, 4,677,558, Cl. 364-431.040.

Bohmler, Heinz; Daumer, Rolf; Mayer, Dieter; and Perenthaler, Egbert, 4,715,009, Cl. 364-565.000.

umit, Gene P.: *See*—

McAliley, J. Eugene; Daumit, Gene P.; Ethridge, Frederick A.; and Crozier, James R., Jr., 4,714,642, Cl. 428-113.000.

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un, Klaus-Dieter. Method and apparatus for cleaning plate heat exchangers used for recovering heat from exhaust gases. 4,679,620, 7-14-87, Cl. 165-95.000.

ums, Eugene J.: *See*—

Frey, Emory L.; Looper, David W.; and Daams, Eugene J., 4,700,567, Cl. 73-151.000.

uphin, Elke, to Burositz Mobelfabrik Friedrich-W. Dauphin GmbH & Co. Gas spring arrangement, especially for a backrest support for office chairs. 4,641,886, 2-10-87, Cl. 297-300.000.

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uphinee, Thomas M. Liquid conductivity measuring circuit. 4,656,427, 4-7-87, Cl. 324-444.000.

uphinoise Thomson: *See*—

Nouvelle, Robert; and Segura, Jean L., 4,685,651, Cl. 251-11.000.

uplaise, David L.; and Trzaskos, William J., to American Cyanamid Company. Method for the synthesis of sulfonated rubrene. 4,696,770, 9-29-87, Cl. 252-700.000.

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Auria, Luigi; Ballegeer, Jean-Claude; and Huu, Duyet N., to Thomson-CSF. Device for storing information in an optical fiber transmission system. 4,653,042, 3-24-87, Cl. 370-3.000.

Auria, Luigi; Puech, Claude; and Moronvalle, Chantal, to Thomson-CSF. Optoelectronic coupler for optical fibers providing adjustable light-energy extraction and a bidirectional data transmission system for practical application of the coupler. 4,668,044, 5-26-87, Cl. 350-96.150.

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ussan, Andre: *See*—

Daussan, Jean-Charles; Daussan, Gerard; and Daussan, Andre, 4,660,808, Cl. 266-236.000.

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Daussan, Jean-Charles; Daussan, Gerard; and Daussan, Andre, 4,660,808, Cl. 266-236.000.

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Fish, Aaron M.; and Dausseing, Jean-Paul, 4,643,007, Cl. 70-134.000.

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King, Dennis D.; and Dautel, David F., 4,676,660, Cl. 368-113.000.

utzenberg, Horst; Loth, Fritz; Borrmeister, Bodo; Bertram, Dieter; Lettau, Herbert; Stamberg, Jiri; and Peska, Jan, to Veb Leipziger Arzneimittelwerk. Absorbing wound dressing and method for making the same. 4,664,105, 5-12-87, Cl. 128-156.000.

utzenberg, Horts: *See*—

Henklein, Peter; Becker, Manfred; Buttner, Werner; Loth, Fritz; Dautzenberg, Horts; Forner, Klaus; Dolling, Rudolf; Graul, Karl-Heinz; Halatsch, Wolf-Rainer; and Rupprich, Christian, 4,714,768, Cl. 548-435.000.

Dauvergne, Hector A. Cluster boiler. 4,643,133, 2-17-87, Cl. 122-318.000.

Dauw, Dirk, to Charmilles Technologies S.A. Method and apparatus for measuring the rate of wear of an EDM electrode tool. 4,700,038, 10-13-87, Cl. 219-69.00P.

Daval, Jacques: *See*—

Armand, Marie-Francoise; Daval, Jacques; Ferrand, Bernard; and Moriceau, Hubert, 4,698,281, Cl. 428-692.000.

D'Avanzo, Thomas. Safety escape chute. 4,650,034, 3-17-87, Cl. 182-49.000.

Davarian, Faramaz, to United States of America, National Aeronautics and Space Administration. Antimultipath communication by injecting tone into null in signal spectrum. 4,675,880, 6-23-87, Cl. 375-39.000.

Davatz, Alexander; and Somlo, Tibor, to Ciba-Geigy Corporation. Novel process for preparation of benzotriazoles using aryldiols and quinones. 4,642,350, 2-10-87, Cl. 548-260.000.

Davatz, Kaspar; Hilpert, Bruno; and Hunziker, Bruno, to Georg Fischer Aktiengesellschaft. Shut-off valve with spherical plug. 4,667,928, 5-26-87, Cl. 251-315.000.

Davco Manufacturing Corp.: *See*—

Davis, Leland L., 4,676,895, Cl. 210-184.000.

Davis, Leland L., 4,680,110, Cl. 210-114.000.

Davis, Leland L., 4,706,636, Cl. 123-557.000.

Dave, Timothy A.; and Guch, Steve, Jr., to GTE Government Systems Corporation. Apparatus for and method of extracting an output beam from a laser system. 4,682,340, 7-21-87, Cl. 372-108.000.

Davenport, Duke. Trailer hitching apparatus. 4,708,359, 11-24-87, Cl. 280-477.000.

Davenport, Frank A., to StaFast Products, Inc. Sailboat tiller extension hiking stick. 4,656,960, 4-14-87, Cl. 114-144.00R.

Davenport, George F., to Exxon Production Research Company. Articulated compliant offshore structure. 4,696,601, 9-29-87, Cl. 405-202.000.

Davenport, Gerald E.: *See*—

Hicks, Harry H.; and Davenport, Gerald E., 4,685,316, Cl. 70-256.000.

Davenport, James M. Wheeled vehicle. 4,657,272, 4-14-87, Cl. 280-266.000.

Davenport, James M., to American Hospital Supply Corp. IOL loop retention package and method. 4,684,014, 8-4-87, Cl. 206-5.100.

Davenport, John L.: *See*—

Wood, Henry S.; and Davenport, John L., 4,670,625, Cl. 174-142.000.

Davenport, Kenneth G., to Celanese Corporation. Process for producing 4-acetoxybenzoic acid. 4,665,215, 5-12-87, Cl. 560-130.000.

Davenport, Kenneth G., to Celanese Corporation. Process for producing 6-hydroxy-2-naphthones. 4,675,449, 6-23-87, Cl. 568-319.000.

Davenport, Kenneth G., to Celanese Corporation. Process for producing acyloxy aromatic carboxylic acids. 4,692,546, 9-8-87, Cl. 560-130.000.

Davenport, Raymond J.; and Tomlinson, Michael A., to Automated Security (Holdings) Ltd. Method and apparatus for discriminating sounds due to the breakage of glass. 4,668,941, 5-26-87, Cl. 340-550.000.

Davenport, William H.; McCormack, Gary D.; and LaRue, George S., to TriQuint. Direct coupled FET logic with super buffer output stage. 4,716,311, 12-29-87, Cl. 307-448.000.

Davern, John W.; and Cook, Daniel D., to Gemcor Engineering Corp. Riveting machine. 4,645,112, 2-24-87, Cl. 227-112.000.

Daverveld, Leonardus A.: *See*—

Esser, Leonard J. M.; Van de Wiel, Petrus J. A. M.; Daverveld, Leonardus A.; and Van Gils, Johannes A. A., 4,716,446, Cl. 357-23.140.

Davey, Anthony B.: *See*—

Ayliffe, Peter J.; and Davey, Anthony B., 4,705,345, Cl. 350-350.00S.

Crossland, William A.; Walker, Christopher J. J.; and Davey, Anthony B., 4,701,029, Cl. 350-351.000.

Davey Bickford Smith & Cie.: *See*—

Deschamps, Daniel; and Puntous, Rene, 4,712,393, Cl. 70-1.500.

Davey, Brian, to Lion Brush Works Limited. Containers for cosmetics. 4,679,692, 7-14-87, Cl. 206-581.000.

Davey, C. Regina. Shelter construction. 4,649,676, 3-17-87, Cl. 52-86.000.

Davey Company, The: *See*—

Dodd, Stephen C., 4,680,957, Cl. 73-55.000.

Davey, Donald G., to Owens-Illinois, Inc. Method of and apparatus for press forming cathode ray tube faceplate panels. 4,704,152, 11-3-87, Cl. 65-29.000.

Davey, Raymond G.; Dees, Martin, Jr.; and Sigman, Daniel M., Jr., to Armstrong World Industries, Inc. Method of printing a raised pattern of liquid. 4,709,631, 12-1-87, Cl. 101-129.000.

Davi, Horace: *See*—

Wermuth, Camille G.; Biziere, Kathleen; and Davi, Horace, 4,677,106, Cl. 514-247.000.

Davi, Richard A., to Rolodex Corp. Hole punch assembly. 4,713,995, 12-22-87, Cl. 83-167.000.

Davi, Richard A.: *See*—

Neilsen, Hildaur L.; and Davi, Richard A., 4,688,457, Cl. 83-468.000.

David, Bernard; and Tetard, Roger. Armoured V-shaped belt with metal contacts. 4,648,857, 3-10-87, Cl. 474-272.000.

David, Bernard; and Tetard, Roger. Screen process printing machine. 4,696,228, 9-29-87, Cl. 101-123.000.

David, Bernd; and Klingberg, Alfred, to Jungheinrich Unternehmensverwaltung KG. Industrial truck, particularly high-lift truck, also as a high-lift truck having a displaceable mast. 4,709,786, 12-1-87, Cl. 187-9.00E.

David Brown Gear Industries (Proprietary) Limited: *See*—

Roberts, Ian S., 4,674,348, Cl. 74-411.000.

David, Constant V. Helicopter blade pitch adjusting system. 4,650,400, 3-17-87, Cl. 416-114.000.

David, Constant V. Single free-piston external combustion engine with hydraulic piston detection. 4,653,273, 3-31-87, Cl. 60-595.000.

David, Constant V. Method of controlling a free piston external combustion engine. 4,653,274, 3-31-87, Cl. 60-595.000.

David, Constant V. Protector for publication and method for guarding a selected portion thereof. 4,660,857, 4-28-87, Cl. 281-20.000.

David, Constant V. Double free-piston external combustion engine. 4,662,177, 5-5-87, Cl. 60-595.000.

David, Constant V. External combustion engine with air-supported free piston. 4,665,703, 5-19-87, Cl. 60-595.000.

David, Constant V. Double-bar riding wheel and method of using same. 4,669,727, 6-2-87, Cl. 273-110.000.

David, Constant V. Nuclear war group survival: structures and camp site. 4,671,189, 6-9-87, Cl. 109-15.000.

David, Constant V. External combustion slidable vane motor with air cushions. 4,672,813, 6-16-87, Cl. 60-595.000.

David, Constant V. Rotary fluidized bed combustion system. 4,683,541. 7-28-87. Cl. 364-500.000.

David, Constant V. Helicopter blade cyclic pitch control system. 4,697,986. 10-6-87. Cl. 416-114.000.

David, Constant V. External combustion vane engine with conformable vanes. 4,702,205. 10-27-87. Cl. 123-236.000.

David, Csaba: *See—*
  Adorjan, Andras; and David, Csaba, 4,704,105. Cl. 604-222.000.

David, Dezso; Rovo, Peter; Sipos nee Richter, Terez; Molnar, Gyorgy; Deme, Istvan; and Karnitscher, Tamas, to Bor-es Cipoipari Kutato-Fejleszto Vallalat; and Budapesti Boripari Vallalat. Method for preserving raw hides, skins and furskins. 4,713,078. 12-15-87. Cl. 8-94.150.

David, Donald J.: *See—*
  Baratto, Eugene L.; David, Donald J.; Truskolaski, Bernard S.; and Wu, Maan-Shi S., 4,704,163. Cl. 106-20.000.

David, Eugene C., to Timesavers, Inc. Wide belt sanding machine with platen oscillating means. 4,651,474. 3-24-87. Cl. 51-138.000.

David, Gerard R., to U.S. Philips Corporation. Field effect transistors having parallel-connected subtransistors. 4,651,181. 3-17-87. Cl. 357-23.400.

David, Lawrence D., to International Business Machines Corporation. Method of producing microsized amorphous particles of metal phosphate. 4,701,314. 10-20-87. Cl. 423-311.000.

David, Marie-Henriette; Gunther, Horst; and de Troostembergh, Jean-Claude, to CPC International Inc. Process of enzymatic conversion of polysaccharides. 4,650,757. 3-17-87. Cl. 435-96.000.

David, Morgan W. A.; and Hedley, David J., to Sony Corporation. Video signal processing. 4,682,217. 7-21-87. Cl. 358-89.000.

David, Morgan W. A., to Sony Corporation. Signal interpolators. 4,703,353. 10-27-87. Cl. 358-140.000.

David, Morgan W. A.: *See—*
  Hedley, David J.; and David, Morgan W. A., 4,689,677. Cl. 358-160.000.

David, Peggy F. M., to Kartell SpA. Device for producing a gas-and-liquid mixture. 4,696,775. 9-29-87. Cl. 261-1.000.

David, Pierre. Snow removal apparatus. 4,633,603. 1-6-87. Cl. 37-197.000.

David R. Webb Co., Inc.: *See—*
  Weil, George, 4,683,926. Cl. 144-178.000.

David, Samuel: *See—*
  Thies, Peter W.; David, Samuel; Kuehl, Ulrich; Buschmann, Gerd; and Flecker, Peter, 4,714,709. Cl. 514-414.000.

David Systems, Inc.: *See—*
  Wakerly, John F., 4,680,779. Cl. 375-107.000.

David, Walfried, to Bopp & Reuther GmbH. Shut-off valve. 4,699,359. 10-13-87. Cl. 251-329.000.

Davidescu, Reghina; Striebel, Randy F.; and Hawks, Roger E., to General Foods Corp. Upgrading of low quality green coffee. 4,671,964. 6-9-87. Cl. 426-461.000.

Davidian, Gary: *See—*
  Pilat, John F.; Jones, Thomas M.; Nealon, James T.; Davidian, Gary; and Bowden, Paul, 4,670,839. Cl. 364-200.000.

Davidoff, Alexander E.: *See—*
  Schmid, Mark E.; Trapp, Robert L.; and Davidoff, Alexander E., 4,667,192. Cl. 340-825.500.

Davidonis, Gayle H.; Mumma, Ralph O.; and Hamilton, Robert H., to Research Corporation. Controlled regeneration of cotton plants from tissue culture. 4,672,035. 6-9-87. Cl. 435-240.000.

Davidov, Dan: *See—*
  Palchan, Israel; Davidov, Dan; and Selig, Henry, 4,645,620. Cl. 252-502.000.

Davidov, Mircho A., to Oak Industries Inc. RF volume control circuit. 4,652,924. 3-24-87. Cl. 358-197.000.

Davidov, Mircho A., to Oak Industries Inc. Pay TV scrambling by audio encryption. 4,688,247. 8-18-87. Cl. 380-19.000.

Davidow, Clifford A., to Lynch Communication Systems, Inc. Universal high-speed span line switch. 4,680,750. 7-14-87. Cl. 370-16.000.

Davidow, William H.: *See—*
  Katzman, James A.; Bartlett, Joel F.; Bixler, Richard M.; Davidow, William H.; Despotakis, John A.; Graziano, Peter J.; Green, Michael D.; Greig, David A.; Hayashi, Steven J.; Mackie, David R.; McEvoy, Dennis L.; Treybig, James G.; and Wierenga, Steven W., 4,639,864. Cl. 364-200.000.
  Katzman, James A.; Bartlett, Joel F.; Bixler, Richard M.; Davidow, William H.; Despotakis, John A.; Graziano, Peter J.; Green, Michael D.; Greig, David A.; Hayashi, Steven J.; Mackie, David R.; McEvoy, Dennis L.; Treybig, James G.; and Wierenga, Steven W., 4,672,535. Cl. 364-200.000.
  Katzman, James A.; Bartlett, Joel F.; Bixler, Richard M.; Davidow, William H.; Despotakis, John A.; Graziano, Peter J.; Green, Michael D.; Greig, David A.; Hayashi, Steven J.; Mackie, David R.; McEvoy, Dennis L.; Treybig, James G.; and Wierenga, Steven W., 4,672,537. Cl. 364-200.000.

Davidson, Albert C., to Westinghouse Electric Corp. Holddown spring retention assembly. 4,671,923. 6-9-87. Cl. 376-285.000.

Davidson, Alexander P.: *See—*
  Furneaux, Robin C.; Rigby, William R.; and Davidson, Alexander P., 4,687,551. Cl. 204-11.000.

Davidson, Dale D.; and Endrud, Douglas G., to Honeywell Inc. Data management equipment for automatic flight control systems having plural digital processors. 4,713,757. 12-15-87. Cl. 364-200.000.

Davidson, Delma; and Waechter, Thomas R., to Pallet Master, Inc. Automatic band-saw system. 4,702,137. 10-27-87. Cl. 83-718.000.

Davidson, Douglas G.: *See—*
  O'Brien, John D.; Baker, Stephen M.; and Davidson, Douglas 4,653,255. Cl. 56-249.000.

Davidson, Eldon F. Digital averaging filter particularly suited for with air navigation receivers. 4,714,929. 12-22-87. Cl. 342-439.00

Davidson, Evan E.; and Kiesling, David A., to International Busine Machines Corporation. Noise reduction during testing of integrat circuit chips. 4,644,265. 2-17-87. Cl. 324-73.00R.

Davidson, Henry A. Multi-location adjustable table. 4,672,898, 6-16- Cl. 108-6.000.

Davidson, James: *See—*
  Smith, Michel R.; Davidson, James; and Pfister, Henry, 4,704, Cl. 340-906.000.

Davidson, James H.: *See—*
  Fredholm, Allan; Davidson, James H.; Khan, Tasadduq; a Theret, Jean-Marc C. F., 4,639,280. Cl. 148-404.000.

Davidson, Jeffrey M.: *See—*
  Benn, Raymond C.; Davidson, Jeffrey M.; and Andrysia Kenneth R., 4,668,312. Cl. 148-410.000.

Davidson, John D.: *See—*
  Moore, Peter G.; and Davidson, John D., 4,636,700. C 318-611.000.

Davidson, John J., to Aluminum Company of America. Electrocat cell. 4,676,881. 6-30-87. Cl. 204-212.000.

Davidson, John P.: *See—*
  Noble, Philip C.; Tullos, Hugh S.; and Davidson, John 4,678,471. Cl. 623-16.000.

Davidson, Mats I. Device for conveyor tracks. 4,706,800. 11-17-87. C 198-685.000.

Davidson, Peter; and Buck, Gretchen. Swimming pool therapy appa tus. 4,665,572. 5-19-87. Cl. 4-492.000.

Davidson, Raymond J.: *See—*
  Arbuthnot, Ian M.; Amm, Errol T.; and Davidson, Raymond 4,692,240. Cl. 209-254.000.

Davidson, Richard R.: *See—*
  Matthews, Kenneth B.; Beckett, Christine A.; Smith, David E.; a Davidson, Richard R., 4,711,727. Cl. 210-727.000.

Davidson, Robert I., to Ethyl Corporation. Telomerization of olef 4,670,579. 6-2-87. Cl. 560-83.000.

Davidson, Robert J., to Hewlett Packard Company. Interferome apparatus and method for determining the spatial relationship of t or more objects. 4,681,447. 7-21-87. Cl. 356-351.000.

Davidson Textron Inc.: *See—*
  Eisfeller, Richard C., 4,713,143. Cl. 156-655.000.

Davidson, William H.; and Miller, Ian, to International Business M chines Corporation. Automatic front of screen adjustment, test system and method. 4,654,706. 3-31-87. Cl. 358-139.000.

Davie, Richard L.; and Gass, Donald N., to Envirex Inc. Deep subme gence rotating biological contactor apparatus. 4,668,387. 5-26-87. C 210-150.000.

Davier, Jean-Pierre, to Robatel Slpi. Centrifugal decanters of the p dulum type. 4,702,625. 10-27-87. Cl. 384-428.000.

Davies, Alan F. Method of fabricating visible file pocket support pa 4,670,076. 6-2-87. Cl. 156-244.110.

Davies, Alan F., to Davies Office Equipment, Ltd. Methods for for ing visible file pockets. 4,693,773. 9-15-87. Cl. 156-200.000.

Davies, Colin M.; and Hamilton, William, to British Steel Corporatio Clamp for elongate members. 4,665,593. 5-19-87. Cl. 24-459.000.

Davies, David E. N., to National Research Development Corporatio Optical measurement apparatus. 4,666,304. 5-19-87. Cl. 356-375.00

Davies, David H. Retrolasing catheter and method. 4,672,961. 6-16- Cl. 128-303.100.

Davies, David J. G.; Meakin, Brian J.; and Rees, John E., to Univers of Bath. Disinfection of contact lenses. 4,642,234. 2-10-87. C 424-78.000.

Davies, David T. Stock barrier. 4,708,515. 11-24-87. Cl. 404-6.000.

Davies, Donald M., Jr.: *See—*
  Hall, Shelby J.; Olekna, David J.; and Davies, Donald M., J 4,698,311. Cl. 436-10.000.

Davies, Geoffrey; and El-Toukhy, Ahmed, to Northeastern Univers Process for stabilization of coal liquid fractions. 4,702,748. 10-27- Cl. 44-56.000.

Davies, Glyndwr J., to AE PLC. Bearing material of polytetrafl ethylene incorporating a filler. 4,657,683. 4-14-87. Cl. 252-12.000.

Davies, Gordon I.: *See—*
  Jenkins, Walter N.; and Davies, Gordon I., 4,681,258. C 239-66.000.

Davies, Graham A.; and Mavituna, Ferda, to National Research De opment Corporation. Reactor for cultivating biological material s as immobilized cells. 4,693,983. 9-15-87. Cl. 435-284.000.

Davies, Graham J.; and Elliott, Charles R., to British Telecommu tions plc. Method and apparatus for etching integrated optoelectro devices. 4,675,086. 6-23-87. Cl. 204-129.300.

Davies, Huw M.: *See—*
  Thompson, Gregory A.; and Davies, Huw M., 4,716,101. C 435-4.000.

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Davies, J. Desmond, to R. P. Scherer Corporation. Freeze-dried fo dosage form. 4,642,903. 2-17-87. Cl. 34-5.000.

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es Office Equipment, Ltd.: *See—*

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es, Paul R.: *See—*

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is, Bender A., to Carvalette Services Africa (PTY) Limited. Air deflector for motor vehicle. 4,662,671, 5-5-87, Cl. 296-217.000.

is, Benjamin L.; Dixon, Joseph M.; and Page, Nicholas D., to Mobil Oil Corporation. Method for treating aggregate materials with wax and compositions thereof with bitumen for road surfaces. 4,714,629, 2-22-87, Cl. 427-138.000.

is, Bobby V. Bottle cap remover. 4,702,130, 10-27-87, Cl. 81-3.560.

is, Bonnie. Method of treating Alzheimer's disease. 4,663,318, 5-87, Cl. 514-215.000.

is, Braxton E., Sr. Electric tilt switch with a liquid contact closer. 649,240, 3-10-87, Cl. 200-61.470.

is, Brent M.; Beckett, Frederick J.; and Zardonatti, Raymond A., to ektronix, Inc. Bi-stable switch with pivoted armature. 4,668,928, 26-87, Cl. 335-79.000.

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Davis, Charles E., to CF Industries, Inc. Agitator shaft bottom bearing assembly. 4,660,989, 4-28-87, Cl. 366-331.000.

Davis, Charles G.: *See—*

Pettit, Harold W., Jr; Davis, Charles G.; and Walden, Frederick C., 4,696,855, Cl. 428-312.800.

Davis, Charles L.: *See—*

Padgett, Lonnie W., Jr.; and Davis, Charles L., 4,700,841, Cl. 206-499.000.

Davis, Charles M., Jr.; and Davis, Robert M. Can-baling machine. 4,669,374, 6-2-87, Cl. 100-39.000.

Davis, Charles R.: *See—*

Boomgaarden, Jonathan C.; Bautista, Bruce Q.; Davis, Charles R.; and Frank, Steven R., 4,651,337, Cl. 378-177.000.

Davis, Charles S. Artificial light source utilizing a holographic optical element to control radiant light. 4,704,666, 11-3-87, Cl. 362-296.000.

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Davis, Darryl B., Sr. Two row cane planter. 4,653,411, 3-31-87, Cl. 111-3.000.

Davis, Dave A. Collapsible game blind. 4,683,672, 8-4-87, Cl. 43-1.000.

Davis, David C., Jr., to Honeywell Inc. Forward error correction hardware for a data adaptor. 4,644,543, 2-17-87, Cl. 371-37.000.

Davis, David R.: *See—*

Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., 4,652,115, Cl. 355-14.0TR.

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Davis, Delbert A.: *See—*

Bruner, Jeffrey W.; and Davis, Delbert A., 4,636,428, Cl. 428-254.000.

Davis, Donald E.; and Ingham, Kenneth T., to Rockwell International Corporation. Fiber composite flywheel rim. 4,660,435, 4-28-87, Cl. 74-572.000.

Davis, Dwin S. Vehicle security alarm. 4,641,124, 2-3-87, Cl. 340-64.000.

Davis, Ed D.: *See—*

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Davis, Edward D.: *See—*

Stevens, Gerald S., Jr.; Sapitowicz, Thomas P.; and Davis, Edward D., 4,642,660, Cl. 346-140.00R.

Davis, Edward L., to General American Transportation Corporation. Door latch control apparatus for hopper vehicle. 4,664,038, 5-12-87, Cl. 105-308.100.

Davis, Edward L.: *See—*

Curry, Jay M.; Gray, Edward R.; Davis, Edward L.; Rollo, Edward J., Jr.; and Long, Paul D., Jr., 4,664,307, Cl. 228-145.000.

Davis, Emsley A. Retention suture apparatus. 4,667,675, 5-26-87, Cl. 128-335.000.

Davis, Gail F.: *See—*

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Davis, Gary C., to General Electric Company. Storage stable aryl nitrone compositions. 4,661,433, 4-28-87, Cl. 430-270.000.

Davis, Gary C., to General Electric Company. High molecular weight siloxane polyimides, intermediates therefor, and methods for their preparation and use. 4,668,755, 5-26-87, Cl. 528-26.000.

Davis, Gary C.: *See—*

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West, Paul R.; and Davis, Gary C., 4,709,107, Cl. 568-927.000.

Davis, Gary W.: *See—*
  Littleton, Jody; and Davis, Gary W., 4,709,719, Cl. 137-268.000.
Davis, George B. Christmas tree lighting control. 4,678,926, 7-7-87, Cl. 307-11.000.
Davis, George H. Collapsible food and beverage container. 4,708,248, 11-24-87, Cl. 206-549.000.
Davis, George T.: *See—*
  Bauer, Barry J.; Chang, Chwan-Kang; and Davis, George T., 4,654,279, Cl. 429-192.000.
Davis, Glenn T. Radio controlled electric slack puller, brake and battery recharging system. 4,687,109, 8-18-87, Cl. 212-76.000.
Davis, Gregory B.; and Buchanan, Michael S., to Wm. T. Burnett & Co., Inc. Polyurethane foam-fiber composites. 4,683,246, 7-28-87, Cl. 521-54.000.
Davis, Gregory L.: *See—*
  Curtis, Walter B.; Davis, Gregory L.; and Klimowicz, Mark C., 4,715,310, Cl. 114-220.000.
Davis, H. Coleman: *See—*
  McElmurry, Terry J.; Davis, H. Coleman; Leftwich, William B.; and Markel, David, 4,639,953, Cl. 5-43.000.
Davis, Haggai D. Diverter including apparatus for breaking up large pieces of formation carried to the surface by the drilling mud. 4,640,372, 2-3-87, Cl. 175-208.000.
Davis, Harold L.; and Sheppard, Douglas P., to Thomson Components - Mostek Corporation. High-speed parity check circuit. 4,646,306, 2-24-87, Cl. 371-49.000.
Davis, Harold L., to Thomson Components - Mostek Corporation. Sense amplifier bit line isolation scheme. 4,651,305, 3-17-87, Cl. 365-205.000.
Davis, Harold L., to Thomson Components-Mostek Corp. Low active-power address buffer. 4,677,593, 6-30-87, Cl. 365-230.000.
Davis, Harold L.; and Lee, Robert D., to Thomson Components-Mostek Corp. CMOS powerless rom code mask option select. 4,687,989, 8-18-87, Cl. 324-758.00R.
Davis, Howard L.: *See—*
  Conley, John L.; Conley, Thomas L.; Conley, Gerald D.; and Davis, Howard L., 4,676,034, Cl. 52-11.000.
Davis, Irwin J., to National Starch and Chemical Corporation. Removable hot melt pressure sensitive adhesive. 4,680,333, 7-14-87, Cl. 524-394.000.
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Davis, James A.; MacPherson, William F.; Mussman, Harry E.; and Shackle, Peter W., to American Telephone and Telegraph Company AT&T Bell Laboratories. Control circuitry using two branch circuits for high voltage solid-state switches. 4,656,366, 4-7-87, Cl. 307-252.00A.
Davis, James A., to Rockwell International Corporation. Supersonic singlet delta oxygen aerosol generator. 4,668,498, 5-26-87, Cl. 423-579.000.
Davis, James C., to Aeronca Electronics, Inc. Articulated arm transfer device. 4,666,366, 5-19-87, Cl. 414-749.000.
Davis, James C.: *See—*
  Valus, Ronald J.; and Davis, James C., 4,661,629, Cl. 562-443.000.
Davis, James E. P. Face mask seal. 4,665,570, 5-19-87, Cl. 2-428.000.
Davis, James L., to Halliburton Company. Cement metering system. 4,654,802, 3-31-87, Cl. 364-502.000.
Davis, James R.; and McConnell, Michael P. Head support cushion. 4,679,262, 7-14-87, Cl. 5-434.000.
Davis, Jeffrey A.: *See—*
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Davis, Jeffrey L.; Evans, Daniel S.; and Hall, Lawrence P. Non-key locking cable lock. 4,693,098, 9-15-87, Cl. 70-233.000.
Davis, John: *See—*
  Smith, James W.; and Davis, John, 4,668,353, Cl. 204-129.000.
  Waugh, Gerald; Myers, Charley; Davis, John; and Sullivan, John, 4,663,710, Cl. 364-400.000.
  Waugh, Gerald; Myers, Charley; Davis, John; and Sullivan, John, 4,672,540, Cl. 364-400.000.
Davis, John E.; and Heyman, Duane A., to BASF Corporation. Process for preparing graft polymer dispersions and polyurethanes prepared therefrom. 4,661,531, 4-28-87, Cl. 521-137.000.
Davis, John S., to Eastman Christensen Company. Core catcher for use with an hydraulically displaced inner tube in a coring tool. 4,651,835, 3-24-87, Cl. 175-58.000.
Davis, John W. Release mechanism. 4,634,021, 1-6-87, Cl. 221-3.000.
Davis, John W.; Corley, Harvey D.; Boudreau, Michael P.; and Laughlin, J. Larry, to Professional Medical Products, Inc. Retractable light assembly. 4,651,258, 3-17-87, Cl. 362-147.000.
Davis, John W. Automotive collision avoidance and/or air bag deployment radar. 4,673,937, 6-16-87, Cl. 342-72.000.
Davis, John W., to Metal Box p.l.c. Dispenser. 4,702,399, 10-27-87, Cl. 222-390.000.
Davis, Joseph L.: *See—*
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Davis, Karlean M.: *See—*
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Davis, Keith P.; and Talbot, Robert E., to Albright & Wilson Limited. Biocidal water treatment. 4,673,509, 6-16-87, Cl. 210-699.000.
Davis, Kenneth, to Perry, W. Wesley. Drill bit and method of renewing drill bit cutting face. 4,654,947, 4-7-87, Cl. 29-402.080.
Davis, Kenneth, to Perry, W. Wesley. Method for renewing the cutting face of a diamond drill bit. 4,654,948, 4-7-87, Cl. 29-402.080.
Davis, Kirk E., to Lubrizol Corporation, The. Alkyl phenol and amino compound compositions and two-cycle engine oils and fuels containing same. 4,663,063, 5-5-87, Cl. 252-51.50R.
Davis, Kirk E., to Lubrizol Corporation, The. Two-cycle engine oils containing alkyl phenols. 4,708,809, 11-24-87, Cl. 252-33.400.
Davis, Larry: *See—*
  Effland, Richard C.; Davis, Larry; and Kapples, Kevin J., 4,667,039, Cl. 546-208.000.
  Effland, Richard C.; Davis, Larry; and Kapples, Kevin J., 4,681,879, Cl. 514-211.000.
Davis, Lawrence E.: *See—*
  Davis, William R.; and Davis, Lawrence E., 4,705,483, Cl. 439-502.000.
Davis, Leland L., to Davco Manufacturing Corp. Fluid flow baffle for fuel processor. 4,676,895, 6-30-87, Cl. 210-184.000.
Davis, Leland L., to Davco Manufacturing Corporation. Filter block mounted fuel processor apparatus. 4,680,110, 7-14-87, Cl. 210-114.000.
Davis, Leland L., to Davco Manufacturing Corporation. Purge and prime fuel delivery system and method. 4,706,636, 11-17-87, Cl. 123-557.000.
Davis, Leo W., to LiquidSpring Investors, Ltd. Suspension strut and pivot bearing assembly for vehicle. 4,652,008, 3-24-87, Cl. 280-672.000.
Davis, Lincoln R.; and Flax, Louis, to LOPAT Enterprises, Inc. Collapsible, portable tote-table. 4,700,986, 10-20-87, Cl. 297-157.000.
Davis, Lincoln R.: *See—*
  Falk, Charles D.; and Davis, Lincoln R., 4,687,373, Cl. 405-128.000.
Davis, Lindsey B., Jr. Method for molding concrete blocks or bricks. 4,702,877, 10-27-87, Cl. 264-553.000.
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  Richardson, Ray O.; Bromirski, Anthony F.; and Davis, Lois T., 4,655,794, Cl. 51-293.000.
Davis, Loren G.; Schmitz, Steven R.; and Tauer, Dennis L., to Lee Data Corporation. Signal conversion circuit for interconnecting coaxial cable and a twisted pair. 4,712,210, 12-8-87, Cl. 370-77.000.
Davis, Marvin B.; Konshak, Michael V.; and Pollard, Christopher A., to Laser Magnetic Storage International Company. Optical memory cartridge and drive apparatus. 4,644,521, 2-17-87, Cl. 369-291.000.
Davis, Michael H. Method and composition for in vivo radiolabeling of red blood cells with ^{99m}Tc. 4,692,324, 9-8-87, Cl. 424-1.100.
Davis, Michael S. Game of skill. 4,667,956, 5-26-87, Cl. 273-1.0GC.
Davis, Michael S. Balancing game device and method. 4,708,342, 11-24-87, Cl. 273-1.0GF.
Davis, Newton G.: *See—*
  Burgit, Richard A.; Davis, Newton G.; Goyert, Josita M.; Johnson, Keith, Jr.; Long, Robert A.; and Stachura, Joseph F., 4,633,570, Cl. 29-564.400.
Davis, Pamela A.: *See—*
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Davis, Paul C.: *See—*
  Andrews, George E.; Davis, Paul C.; Farley, Dennis C.; Kravitz, Stanley H.; Meeker, Thrygve R.; Petersen, Owe G.; and Schelling, Arthur W., 4,715,049, Cl. 375-106.000.
Davis, Paul D.: *See—*
  Adair, Paul C.; Hillenbrand, Gary F.; and Davis, Paul D., 4,713,312, Cl. 430-138.000.
Davis, Pauls; and Mente, Donald C., to BASF Corporation. Process for elimination N-nitrosamines from N-nitrosamine-containing compositions. 4,675,445, 6-23-87, Cl. 564-437.000.
Davis, Pauls: *See—*
  Panek, Edward J.; and Davis, Pauls, 4,649,224, Cl. 568-624.000.
  Panek, Edward J.; and Davis, Pauls, 4,665,239, Cl. 568-624.000.
  Panek, Edward J.; and Davis, Pauls, 4,709,099, Cl. 568-624.000.
  Schmitt, Thomas M.; Allen, George M.; and Davis, Pauls, 4,647,705, Cl. 568-868.000.
  Schwartz, Ellen S.; Davis, Pauls; and Maxwell, Jerrold F., 4,686,058, Cl. 252-75.000.
Davis, Randall C.: *See—*
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Davis, Raymond K. Internally mounted duty cycling control. 4,712,733, 12-15-87, Cl. 236-10.000.
Davis, Rhetta Q.: *See—*
  Stevens, Michael G.; and Davis, Rhetta Q., 4,636,541, Cl. 523-404.000.
Davis, Richard: *See—*
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Davis, Richard A.; and Davis, Wilfrid E. Decorative wall covering. 4,680,911, 7-21-87, Cl. 52-521.000.
Davis, Richard E., to S.M.S. Industries, Inc. Lopper with bypassing blades. 4,644,652, 2-24-87, Cl. 30-252.000.
Davis, Richard F., to Du Pont de Nemours, E. I., and Company. Process for preparing 6-halo-2-chloroquinoxaline. 4,636,562, 1-13-87, Cl. 544-354.000.
Davis, Robert A.: *See—*
  Brouwer, Walter G.; Bell, Allyn R.; Blem, Allen R.; and Davis, Robert A., 4,675,044, Cl. 71-73.000.
Davis, Robert B., to Union Carbide Corporation. Method and apparatus for rapidly cooling optical fiber. 4,664,689, 5-12-87, Cl. 65-3.110.

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vis, Robert E., to Arkansas Patents, Inc. Pulsing combustion. 4,637,792, 1-20-87, Cl. 431-1.000.

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vis, Robert E. Prevention of fouling in internal combustion engines and their exhaust systems and improved gasoline compositions. 4,674,447, 6-23-87, Cl. 123-1.00A.

vis, Robert E.; and Spector, George. Inflated shoe. 4,676,009, 6-30-87, Cl. 36-7.800.

vis, Robert H.: *See—*

Frangatos, Gerassimo; and Davis, Robert H., 4,661,273, Cl. 252-47.000.

vis, Robert J., to American Davidson, Inc. Variable inlet fan assembly. 4,681,509, 7-21-87, Cl. 415-161.000.

vis, Robert L.; and Keith, Harold D., to University of Missouri, The Curators of the. Expansion bolt and mine roof reinforcement therewith. 4,636,115, 1-13-87, Cl. 405-259.000.

vis, Robert L., to Ethyl Corporation. Process for preparing (hydrocarbylthio)aromatic amines. 4,670,598, 6-2-87, Cl. 564-440.000.

vis, Robert L.: *See—*

Ranken, Paul F.; and Davis, Robert L., 4,670,597, Cl. 564-440.000.

Tsui, James B. Y.; and Davis, Robert L., 4,644,267, Cl. 324-77.00K.

vis, Robert M.: *See—*

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vis, Ronald P. Window stay. 4,703,540, 11-3-87, Cl. 16-337.000.

vis, Ronald W.: *See—*

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avis, Roy E. Reinforcing member for wooden structure. 4,637,195, 1-20-87, Cl. 52-693.000.

avis, Ruth A., to Air Products and Chemicals, Inc. Nitrogen rejection fractionation system for variable nitrogen content natural gas. 4,662,919, 5-5-87, Cl. 62-25.000.

avis, Sherman G., to Gibco Division, The Mogul Corporation. Biphasic media culture apparatus. 4,640,895, 2-3-87, Cl. 435-296.000.

avis, Stanley L.: *See—*

Burgess, Ralph D., Jr.; and Davis, Stanley L., 4,676,711, Cl. 414-327.000.

avis, Stephen M.: *See—*

Mauldin, Charles H.; Davis, Stephen M.; and Arcuri, Kym B., 4,663,305, Cl. 502-304.000.

avis, Steven B., to Westinghouse Electric Corp. Auxiliary equipment mounting ring for electric meter. 4,686,461, 8-11-87, Cl. 324-157.000.

avis, Steven J.; Lilenfeld, Harvey V.; Neumann, David K.; and Whitefield, Phillip D., to United States of America, Air Force. Chemical oxygen-iodine laser. 4,653,062, 3-24-87, Cl. 372-89.000.

avis, Steven S.; Mueller, Max A.; and Janecek, Kenneth F., to Envirotech Corporation. Composite roll covering for expressing machines. 4,697,511, 10-6-87, Cl. 100-37.000.

avis, Steven S., to Envirotech Corporation. Filter cloth cake removal device. 4,710,293, 12-1-87, Cl. 210-225.000.

Davis, Sydney; and Malakhoff, Alexander, to United States of America, Navy. Parasol design for transversely supported membrane seal. 4,657,101, 4-14-87, Cl. 180-127.000.

Davis, Terrence A.: *See—*

Soderstrom, Edwin D., III; and Davis, Terrence A., 4,667,508, Cl. 73-64.200.

Davis, Thomas A.; Bozenmayer, Kurt; and Butterworth, Donald J., to Graver Company, The. Air/water distributor underdrain. 4,707,257, 11-17-87, Cl. 210-274.000.

Davis, Thomas E., to Cerline Ceramic Corporation. Pipe elbow with abrasion resistant composite inner liner and method for forming. 4,684,155, 8-4-87, Cl. 285-16.000.

Davis, Thomas E.; Schmidt, Donald L.; Kau, Jee I.; Wessling, Ritchie A.; Whipple, Sharon S.; Fibiger, Richard F.; and Pickelman, Dale M., to Dow Chemical Company, The. Semi-permeable membranes prepared via reaction of cationic groups with nucleophilic groups. 4,704,324, 11-3-87, Cl. 428-308.400.

Davis, Thomas O., Jr. Projectile using shape-memory alloy to improve impact energy transfer. 4,704,968, 11-10-87, Cl. 102-517.000.

Davis, Tonnie. Portable tree stand. 4,667,773, 5-26-87, Cl. 182-187.000.

Davis, Walter L.; DeLuca, Michael J.; and Siegel, William G., to Motorola, Inc. DC to DC converter. 4,634,956, 1-6-87, Cl. 323-222.000.

Davis, Walter L., to Motorola, Inc. Driver circuit for generating output at two different levels. 4,647,793, 3-3-87, Cl. 307-270.000.

Davis, Walter L.; and Woltz, Stephen H., to Motorola, Inc. Filter capacitor discharge circuit for a DC-DC converter. 4,648,015, 3-3-87, Cl. 363-15.000.

Davis, Walter L., to Motorola, Inc. Reduced power consumption low battery alert device. 4,660,027, 4-21-87, Cl. 340-636.000.

Davis, Walter L., to Motorola, Inc. Programmable read only memory output circuit. 4,672,576, 6-9-87, Cl. 365-105.000.

Davis, Walter L., to Motorola, Inc. Apparatus for inhibiting repetitive message detections in a zone batched communication system. 4,682,165, 7-21-87, Cl. 340-825.500.

Davis, Walter L., to Motorola, Inc. Programmable read only memory adaptive row driver circuit. 4,698,790, 10-6-87, Cl. 365-230.000.

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Davis, Walter L., to Motorola, Inc. Programmable trimmable circuit having voltage limiting. 4,713,599, 12-15-87, Cl. 323-312.000.

Davis, Walter R.: *See—*

Isbell, Tim D.; and Davis, Walter R., 4,634,892, Cl. 307-265.000.

Davis, Wayne S.; Defibaugh, George R.; and Fortuna, Jon A., to AMP Incorporated. Electronic key assemblies. 4,648,665, 3-10-87, Cl. 339-14.00R.

Davis, Wilfrid E.: *See—*

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Davis, William F., to Motorola, Inc. Current mirror circuit and method for providing zero temperature coefficient trimmable current ratios. 4,673,867, 6-16-87, Cl. 323-315.000.

Davis, William F., to Motorola, Inc. Monolithic current splitter for providing temperature independent current ratios. 4,689,549, 8-25-87, Cl. 323-315.000.

Davis, William F., to Motorola, Inc. Operational amplifier with passive current limiting. 4,709,216, 11-24-87, Cl. 330-252.000.

Davis, William F., to Motorola, Inc. Amplifier having improved gain-bandwidth product. 4,710,728, 12-1-87, Cl. 330-252.000.

Davis, William F.; and Vyne, Robert L., to Motorola, Inc. Series resistive network. 4,713,680, 12-15-87, Cl. 357-51.000.

Davis, William F., to Motorola, Inc. Differential amplifier including balanced two terminal series RC network. 4,716,379, 12-29-87, Cl. 330-252.000.

Davis, William H., to Ring Around Products, Inc. Process for forming seeds capable of growing hybrid soybean plants. 4,648,204, 3-10-87, Cl. 47-58.000.

Davis, William L. Comestible heater. 4,692,029, 9-8-87, Cl. 366-149.000.

Davis, William M., to United Pharmaceuticals, Inc. Anti-spasmodic agents having three branch chains. 4,647,562, 3-3-87, Cl. 514-222.000.

Davis, William M., to United Pharmaceuticals, Inc. Anti-spasmodic agents having a ring in the main chain. 4,652,649, 3-24-87, Cl. 546-196.000.

Davis, William M., to United Pharmaceuticals, Inc. Anti-spasmodic agents having a ring in the main chain. 4,678,780, 7-7-87, Cl. 514-183.000.

Davis, William M., to United Pharmaceuticals, Inc. Method for stabilizing a detrusor muscle while increasing detrusor muscle strength. 4,707,480, 11-17-87, Cl. 514-228.000.

Davis, William M.: *See—*

Gardner, Irwin J.; Fusco, James V.; Newman, Neil F.; Kowalski, Ronald C.; Davis, William M.; and Baldwin, Francis P., 4,703,091, Cl. 525-332.300.

Kowalski, Ronald C.; Davis, William M.; Newman, Neil F.; Foroulis, Zisis A.; and Baldwin, Francis P., 4,650,832, Cl. 525-354.000.

Davis, William N., II; and Nash, Ruth E., to NCR Corporation. User-friendly technique and apparatus for entering alphanumeric data through a numeric keyboard. 4,680,728, 7-14-87, Cl. 364-900.000.

Davis, William R.; and Davis, Lawrence E. Tree light wiring harness. 4,705,483, 11-10-87, Cl. 439-502.000.

Davis, William T.: *See—*

Hess, Robert W.; Davis, William T.; and Davis, Pamela A., 4,698,997, Cl. 73-4.00R.

Davison, Alan; Brenner, David; Lister-James, John; and Jones, Alun G., to Children's Medical Center Corporation, The; and Massachusetts Institute of Technology. Bisamide bisthiol compounds useful for making technetium radiodiagnostic renal agents. 4,673,562, 6-16-87, Cl. 424-1.100.

Davison, Alan: *See—*

Jones, Alun G.; Davison, Alan; and Abrams, Michael J., 4,707,544, Cl. 534-14.000.

Davison, Andrew J.: *See—*

Ellis, Ronald W.; Lowe, Robert S.; Keller, Paul M.; and Davison, Andrew J., 4,686,101, Cl. 424-88.000.

Davison, Dale, to Boehringer Mannheim Corporation. Adjustable drill gauge. 4,710,075, 12-1-87, Cl. 408-202.000.

Davison, Francis L., to NL Industries, Inc. Self-adjusting valve actuator. 4,686,658, 8-11-87, Cl. 367-85.000.

Davison, Gerald A.: *See—*

Brelsford, David P.; Cerutti, Daniel D.; Coleman, Leslie S.; Davison, Gerald A.; Dewey, Pamela H.; Enichen, Margaret C.; Hartley, Sarah T.; Malinowski, Paul A.; Rogers, Roger W.; Tallman, Peter H.; and Wilczak, Lynn A., 4,674,038, Cl. 364-200.000.

Davison, Grenville: *See—*

Milne, Alistair R.; and Davison, Grenville, 4,638,713, Cl. 89-14.100.

Davison, Jerome G.; and Hollingshead, Gerald E. Dynamically balanced exhaust pipe cap. 4,667,582, 5-26-87, Cl. 98-59.000.

Davison, John F.: *See*—
Gradeff, Peter S.; Schreiber, Fred G.; Charte, Vincent J.; and Davison, John F., 4,647,401, Cl. 252-309.000.

Davison, John R. N., to Labofina, S.A. Cloning vectors comprising a restriction site bank and the construction thereof. 4,657,858, 4-14-87, Cl. 435-68.000.

Davison, Keith K., to Personics Corporation. Apparatus and method for controlling a cursor on a computer display. 4,682,159, 7-21-87, Cl. 340-709.000.

Davison, Sol, and Hwo, Charles C., to Shell Oil Company. Unique molecular weight distribution polybutylene blend and film. 4,677,025, 6-30-87, Cl. 428-349.000.

Davituliani, Valentin V.: *See*—
Ovchinnikov, Alexandr A.; Dudin, Vladimir P.; Konov, Vyacheslav V.; Khlybov, Vyacheslav I.; Rapoport, Jury M.; Gorbunov, Boris N.; Makarova, Evgenia S.; Davituliani, Valentin V.; and Zaitseva, Svetlana I., 4,642,354, Cl. 548-473.000.

Davlantes, George N. Pet door flap with slow moving sill. 4,651,793, 3-24-87, Cl. 160-92.000.

Davol, Inc.: *See*—
Titone, Milo A.; Titone, Simone C.; and Czajka, John, 4,667,662, Cl. 128-92.0YD.

Davoli, Velmore: *See*—
Mayr, Adolfo; Susa, Ermanno; Leccese, Antonio; Davoli, Velmore; and Giachetti, Ettore, 4,636,486, Cl. 502-121.000.

Davot, Micheline M. J.: *See*—
Caserio, Domenico; Mignini, Elio; and Davot, Micheline M. J., 4,664,910, Cl. 424-70.000.

Davoust, Joel, and Pelus, Pascal, to Dampers S.A. Viscous vibration dampers. 4,660,436, 4-28-87, Cl. 74-574.000.

Davy McKee A.G.: *See*—
Heinze, Helmut, and Wilhelm, Fritz, 4,680,376, Cl. 528-279.000.

Davy McKee (Poole) Limited: *See*—
Atack, Philip A.; Gore, Trevor A.; and Masterman, Michael, 4,671,091, Cl. 72-45.000.
Collinson, Christopher D.; and Ross, Hugh M., 4,638,950, Cl. 239-551.000.
Ticehurst, Roy M.; and Watson, Joseph L., 4,709,568, Cl. 72-201.000.

Davy McKee (Sheffield) Limited: *See*—
Clegg, Roy, 4,691,546, Cl. 72-9.000.
Haynes, Ralph G., 4,658,622, Cl. 72-249.000.
Stonecliffe, David; and Barlow, Peter, 4,653,570, Cl. 164-440.000.
Wilson, Alexander L., 4,669,294, Cl. 72-249.000.

Davy, Peter G.; and Cuthbertson, Brian G., to Neon 2000 Limited. Electronic control equipment. 4,697,229, 9-29-87, Cl. 363-49.000.

Davydov, Anatoly B.: *See*—
Babaian, Eduard A.; Gerasimova, Galina A.; Davydov, Anatoly B.; Utyamyshev, Rustam I.; Khromov, Gennady L.; Metelitsa, Vladimir I.; Vikhert, Anatoly M.; Savvateev, Konstantin L.; Piotrovsky, Vladimir K.; and Novikova, Elizaveta B., 4,713,239, Cl. 424-81.000.

Daw, Incorporated: *See*—
Daw, Terry L., 4,667,579, Cl. 98-33.100.

Daw, Ryan S.: *See*—
Dunford, Scott V.; and Daw, Ryan S., 4,698,851, Cl. 2-160.000.

Daw, Terry L., to Daw, Incorporated. Cleanroom structure. 4,667,579, 5-26-87, Cl. 98-33.100.

Dawans, Francois: *See*—
Durand, Jean-Pierre; Nicolas, Denise; Kohler, Norbert; Dawans, Francois; and Candau, Francoise, 4,681,912, Cl. 524-827.000.

Dawawala, Suryakant K.; and LaCoste, Bernard L., to Westinghouse Electric Corp. Steam turbine control valve for cyclic duty. 4,679,769, 7-14-87, Cl. 251-282.000.

Dawe, Stephen G.; and Brews, James A., to Coalequip (Proprietary) Limited. Drill adaptor. 4,638,874, 1-27-87, Cl. 175-321.000.

Dawe, Thomas W.: *See*—
Johnstone, Thomas O.; and Dawe, Thomas W., 4,649,008, Cl. 264-177.100.

Daweritz, Albrecht: *See*—
Kleine, Willi; Frey, Werner; and Daweritz, Albrecht, 4,661,569, Cl. 526-62.000.

Dawes, Cyril; and Tranter, Donald F., to Lucas Industries Public Limited Company. Making of steel component. 4,710,238, 12-1-87, Cl. 148-16.600.

Dawes, Cyril; and Smith, Colin G., to Lucas Industries Public Limited Company. Production of thin flat articles with hardened surfaces. 4,713,122, 12-15-87, Cl. 148-16.600.

Dawes, Richard G.: *See*—
Bunch, Graham; and Dawes, Richard G., 4,638,766, Cl. 122-398.000.

Dawick, John K.: *See*—
Reaves, Lloyd L.; and Dawick, John K., 4,648,216, Cl. 52-90.000.

Dawiedczyk, Clarence J., to Zwicker Knitting Mills; and Tempo Glove Company. Work glove. 4,651,350, 3-24-87, Cl. 2-158.000.

Dawkins, Gordon: *See*—
Tkatchenko, Igor; Jaouhari, Rabih; Bonnet, Michel; Dawkins, Gordon; and Lecolier, Serge, 4,709,087, Cl. 560-339.000.

Dawson, Brian D.; and Leacock, James R., to Emhart Industries, Inc. Life safety audio system having a voice synthesizer and a constant volume telephone network. 4,682,348, 7-21-87, Cl. 379-37.000.

Dawson, Brian D.; and Leacock, James R., to Emhart Industries, Inc. Proportional power demand audio amplifier control. 4,683,591, 7-28-87, Cl. 381-85.000.

Dawson, Christopher; Healey, Fritz W.; and Taylor, Leo O., to Loral Electro-Optical Systems, Inc. Laser diode optical system. 4,712,88 12-15-87, Cl. 350-443.000.

Dawson, Dale E.; Conti, Anthony L.; Lee, Soong H.; Shade, Gary F.; and Dickens, Lawrence E., to Westinghouse Electric Corp. Wide band microwave analog phase shifter. 4,638,269, 1-20-87, Cl. 333-164.000.

Dawson, Daniel A., to Scientific Micro Systems, Inc. Multilevel bootstrap apparatus. 4,663,707, 5-5-87, Cl. 364-200.000.

Dawson, Darryl A.: *See*—
Fentress, Vernon A.; and Dawson, Darryl A., 4,711,517, Cl. 350-96.200.

Dawson, Ian J.; and McNutt, Robert L., to Caterpillar Industrial Inc. Oscillating scanner arrangement. 4,706,772, 11-17-87, Cl. 180-167.00

Dawson, James E.: *See*—
Klee, Maurice; Peterson, Robert T.; Cochran, Gary L.; Dawson, James E.; and Anderson, Robert M., 4,682,666, Cl. 180-89.13

Dawson, James W., to Brunswick Corporation. Transmitter rod. 4,644,680, 2-24-87, Cl. 43-18.100.

Dawson, John, to General Electric Company. Actuator for variable vanes. 4,695,220, 9-22-87, Cl. 415-9.000.

Dawson, Luther C.: *See*—
Leming, Anthony D.; and Dawson, Luther C., 4,641,431, Cl. 30-276.000.

Dawson, Paul H.: *See*—
Wilhelm, John J.; Calhoun, Gregory L.; Dawson, Paul H.; and Kramer, Arthur W., 4,637,588, Cl. 251-280.000.

Dawson, Richard S.: *See*—
Kirilloff, Victor V.; Benson, William A.; Cummins, Robert; and Dawson, Richard S., 4,651,124, Cl. 338-280.000.

Dawson, Robert H.; and Schnable, George L., to RCA Corporation. Semiconductor device passivated with phosphosilicate glass over silicon nitride. 4,668,973, 5-26-87, Cl. 357-54.000.

Dawson, Robert H., to Reliance Electric Company. Center barrier for wire gripping devices. 4,698,031, 10-6-87, Cl. 439-863.000.

Dawson, Thomas F.; and Ewing, Paul C., Jr., to Charles Stark Draper Laboratory, Inc., The. Grinding guide and method for controlling the automatic grinding of objects. 4,648,211, 3-10-87, Cl. 51-165.00R.

Dawson, Thomas F.; Ewing, Paul C., Jr.; Dafnoulelis, Christos V.; and Martin, Jacob H., to Charles Stark Draper Laboratory, Inc., The. Automatic grinding machine. 4,648,212, 3-10-87, Cl. 51-165.00R.

Day, Bobby L., to Brown Boveri Reaktor GmbH. Determining the difference between the temperature of a liquid flowing in a closed system and its saturation temperature. 4,652,251, 3-24-87, Cl. 374-101.000.

Day, Charles L., to Palmer-Chenard Industries, Inc. Molding. 4,659,304, 4-21-87, Cl. 425-406.000.

Day, Chia P.; Krause, Kenneth W.; Whitcomb, Louis L.; and Horn, Berthold K. P., to GMF Robotics Corporation. Method and system for automatically determining the position and attitude of an object. 4,639,878, 1-27-87, Cl. 364-513.000.

Day, Clive R.: *See*—
Ainslie, Benjamin J.; Day, Clive R.; and Beales, Keith J., 4,675,03 Cl. 65-3.120.

Day, Donald: *See*—
Brockbank, Lucas T.; Day, Donald; and Zukowski, Robert F., 4,653,444, Cl. 123-179.0AS.

Day, Eric, to United Technologies Diesel Systems, Inc. SOC signal analysis. 4,651,562, 3-24-97, Cl. 73-116.000.

Day, Eric, to United Technologies Diesel Systems, Inc. Fuel injection control. 4,658,794, 4-21-87, Cl. 123-501.000.

Day, Gary A., to A. E. Staley Manufacturing Company. Crystallization of fructose utilizing a mixture of alcohols. 4,643,773, 2-17-87, Cl. 127-30.000.

Day, Gene F., to Precision Image Corporation. Development apparatus for latent images on supported sheets. 4,655,165, 4-7-87, Cl. 118-647.000.

Day, Gene F., to Precision Image Corporation. Self-seating toning shoe for electrostatic drum printers. 4,693,206, 9-15-87, Cl. 118-631.000.

Day, Gene F.: *See*—
Bibl, Andreas; Day, Gene F.; and Higginson, John A., 4,706,605, Cl. 118-631.000.

Day, George D.; Flack, John K.; Golledge, Ian; Hillary, Christopher J.; Pike, John V.; and Watson, Michael H., to International Business Machines Corporation. Adjustable support for display monitor. 4,640,485, 2-3-87, Cl. 248-422.000.

Day, Gerald G., to Coca-Cola Company, The. Convertible beverage body for delivery truck or trailer. 4,659,132, 4-21-87, Cl. 296-24.00R.

Day, Harold R. Exercising device. 4,651,987, 3-24-87, Cl. 272-136.000.

Day International Corporation: *See*—
Dolan, John J.; and Dye, Charles, 4,692,967, Cl. 19-244.000.
Haren, Doyle V.; and Wiley, Lawrence V., 4,691,432, Cl. 29-527.200.

Day, James C.; and Payne, Gerald, to Premium Allied Tool, Inc. Electrical lead wire and terminal splicing machine. 4,667,397, 5-26-87, Cl. 29-748.000.

Day, John: *See*—
Lee, Kyu-Woong; Durschlag, Mark S.; and Day, John, 4,670,297, Cl. 427-91.000.

Day, John P.: *See*—
DeAngelis, Thomas P.; and Day, John P., 4,681,624, Cl. 75-28.000.

Day, Lawrence J.: *See*—
Flannagan, Stephen T.; Day, Lawrence J.; and Simon, Barry A., 4,716,302, Cl. 307-200.00B.

- . Paul N.: *See—*
  - Vijan, Meera; McGill, John C.; and Day, Paul N., 4,680,085, Cl. 156-643.000.
- , Robert C. Boat dock mooring device. 4,697,538, 10-6-87, Cl. 14-230.000.
- , Roger A.; Tommis, Norman; and Baker, Andrew R., to AE Plc. Reinforced pistons. 4,708,104, 11-24-87, Cl. 123-193.00P.
- , Roger A.: *See—*
  - Munro, Robert; and Day, Roger A., 4,679,493, Cl. 92-212.000.
- Star Concepts: *See—*
  - Lakes, Sherman, 4,640,862, Cl. 428-308.400.
- , Wallace, to GIW Industries, Inc. Method of forming abrasive resistant white cast iron. 4,638,847, 1-27-87, Cl. 164-55.100.
- , William J., to SSI Technologies, Inc. Variable reluctance magnetic sensor with pole piece and shell projections matched to gear teeth. 4,700,133, 10-13-87, Cl. 324-208.000.
- ya, Shiraz: *See—*
  - Pompei, Francesco; and Daya, Shiraz, 4,636,091, Cl. 374-124.000.
- yco Corporation: *See—*
  - Foster, Randy C., 4,634,408, Cl. 474-135.000.
  - Hollaway, Gerald C., Jr., 4,634,413, Cl. 474-263.000.
  - Howerton, Anderson W., 4,642,076, Cl. 474-201.000.
  - Hull, Matthew L., 4,647,278, Cl. 474-205.000.
  - Long, Delmar D., 4,637,940, Cl. 427-176.000.
  - Oliver, Larry R., 4,634,411, Cl. 474-244.000.
  - Quick, Terrence R.; Miranti, Joseph P., Jr.; and Foster, Randy C., 4,634,405, Cl. 474-13.000.
  - Rush, James B.; Bryan, James S.; Gunter, Jonas L.; Dillard, Guy W.; Meadows, Roger D.; and Henry, Pearison W., 4,637,638, Cl. 285-158.000.
- yco Products, Inc.: *See—*
  - Anderson, John F., Jr.; and Long, Delmar D., 4,661,399, Cl. 428-246.000.
  - Brooks, Thomas W.; Masseth, David A.; Malecka, Joseph R.; Stiver, C. Edward; Pearson, Charles S.; and Fox, James D., 4,703,643, Cl. 72-402.000.
  - Bryan, James S.; and Meadows, Roger D., 4,679,293, Cl. 29-450.000.
  - Cothran, Liggett A.; Morgan, Edward L.; Stevens, Robert E.; Holden, Homer N.; and Ensley, R. Neal, 4,655,986, Cl. 264-508.000.
  - Foster, Randy C., 4,653,779, Cl. 285-256.000.
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  - Henderson, Dewey D., 4,661,087, Cl. 474-135.000.
  - Henderson, Dewey D., 4,689,038, Cl. 474-242.000.
  - Hollaway, Gerald C., Jr., 4,678,455, Cl. 474-263.000.
  - Hollaway, Gerald C., Jr., 4,683,270, Cl. 525-347.000.
  - Holtsclaw, David W., 4,653,663, Cl. 220-465.000.
  - Kleykamp, Donald L., 4,644,874, Cl. 105-377.000.
  - Kleykamp, Donald L., 4,684,418, Cl. 156-91.000.
  - Long, Delmar D., 4,711,792, Cl. 427-176.000.
  - Masseth, David A., 4,677,751, Cl. 33-143.00M.
  - Meadows, Roger D.; Rush, James B.; and Bryan, James S., 4,648,628, Cl. 285-24.000.
  - Miranti, Joseph P., Jr.; Oliver, Larry R.; and Johnson, Clyde O., 4,676,768, Cl. 474-201.000.
  - Murken, Joseph S., 4,707,262, Cl. 210-448.000.
  - Oglesby, Donald L.; and Sinnamon, Robert H., 4,706,712, Cl. 138-126.000.
  - Oliver, Larry R.; Hill, James D., Jr.; Lewis, Charles M.; Hollaway, Gerald C., Jr.; and Nelson, Jack, 4,690,665, Cl. 474-245.000.
  - Rush, James B.; Bryan, James S.; Gunter, Jonas L.; Dillard, Guy W.; Meadows, Roger D.; and Henry, Pearison W., 4,654,942, Cl. 29-157.00T.
  - Standley, Paul M., 4,708,610, Cl. 425-28.00B.
  - Tassone, Joseph V., and Candor, James T., 4,671,758, Cl. 425-174.80E.
  - Tassone, Joseph V.; and Candor, James T., 4,695,269, Cl. 474-268.000.
  - Wetzel, Robert E., 4,650,443, Cl. 474-153.000.
  - Wetzel, Robert E., 4,679,999, Cl. 474-153.000.
  - Wetzel, Robert E., 4,690,664, Cl. 474-205.000.
  - Wilson, Leslie B., 4,696,664, Cl. 474-138.000.
- Dayen, Leonid: *See—*
  - Hanks, James V.; Raines, Charles D.; and Dayen, Leonid, 4,633,991, Cl. 192-85.0CA.
  - Hanks, James V.; Raines, Charles D.; and Dayen, Leonid, 4,679,675, Cl. 192-67.00R.
  - Schilling, Hugh K.; Dayen, Leonid; and Raines, Charles D., 4,648,493, Cl. 192-18.00A.
- Daylab, Ltd.: *See—*
  - Wnukiewicz, Stanley A., Jr., 4,645,324, Cl. 354-312.000.
- Dayley, Kyle E.: *See—*
  - Willard, Miles J.; Dayley, Kyle E.; Hix, Veldon M.; and Holm, David A., 4,650,687, Cl. 426-438.000.
- Daymarc Corporation: *See—*
  - Cedrone, Nicholas J.; and Lee, Kenneth R., 4,641,738, Cl. 193-40.000.
  - Cedrone, Nicholas J., 4,689,556, Cl. 324-158.00P.
- Dayson, Clive, to Canadian Patents and Development Limited. Mechanical log yarding carriage. 4,646,924, 3-3-87, Cl. 212-83.000.
- Dayton, Birney D.; and Stanger, Leon J., to Grass Valley Group, Inc. Video signal format. 4,654,696, 3-31-87, Cl. 358-11.000.
- Dayton, Birney D.; and Bannister, Richard, to Grass Valley Group, Inc., The. Monolithic switch. 4,663,598, 5-5-87, Cl. 330-288.000.
- Dayton, Birney D., and Bannister, Richard, to Grass Valley Group, Inc., The. Monolithic switch with selective latch control. 4,684,823, 8-4-87, Cl. 307-247.00R.
- Dayton, Douglas C.; and Ardito, John D., to Wang Laboratories, Inc. Ergonomic equipment arm. 4,703,909, 11-3-87, Cl. 248-280.100.
- Dayton Machine Tool Company: *See—*
  - Siler, G. Daniel, 4,714,388, Cl. 409-146.000.
- Dayton Reliable Tool & Mfg. Co.: *See—*
  - Bachmann, Henry C.; Brown, Omar L.; Fraze, Ermal C.; Wynn, David K.; and Gregg, James R., 4,637,961, Cl. 428-579.000.
  - Bachmann, Henry C.; Brown, Omar L.; Fraze, Ermal C.; Wynn, David K.; and Gregg, James R., 4,704,887, Cl. 72-347.000.
  - Bachmann, Henry C.; and Fraze, Ermal C., 4,711,611, Cl. 413-69.000.
  - Brown, Omar L., 4,640,116, Cl. 72-352.000.
  - Cook, Steven T.; and Wynn, David K., 4,696,179, Cl. 72-405.000.
- Dayton, Russell W.: *See—*
  - Saller, Henry A., deceased; Hodge, Edwin S.; Paprocki, Stanley J., and Dayton, Russell W., 4,709,848, Cl. 228-159.000.
- Dayton Superior Corporation: *See—*
  - Courtois, Peter D.; and Truitt, Robert E., 4,700,979, Cl. 294-89.000.
- Dayus, Lloyd G., to Rachels Industries, Inc. Lightweight load bearing register. 4,672,890, 6-16-87, Cl. 98-114.000.
- Dazar Corporation: *See—*
  - Baer, James W., 4,712,887, Cl. 350-484.000.
- DBM Industries Limited: *See—*
  - Perrella, Guido; and Thompson, William E., 4,637,451, Cl. 164-342.000.
- DCA Incorporated: *See—*
  - Brice, Richard M., 4,663,895, Cl. 52-33.000.
- DCI Marketing: *See—*
  - Finger, Otto R., 4,663,872, Cl. 40-488.000.
  - Hornblad, Richard P., and Sorensen, Gerald R., 4,640,029, Cl. 40-5.000.
- DCM Industries, Inc.: *See—*
  - Chattler, Leo M., 4,634,964, Cl. 324-60.00C.
- deTEQ: *See—*
  - Dieffenbach, Harry N., 4,686,666, Cl. 369-290.000.
- DDRS, Inc.: *See—*
  - Sanderford, Hugh B., Jr., 4,684,945, Cl. 340-825.560.
- De Belgische Staat-l'Etat Belge: *See—*
  - Jacobs, Julia M.; Jacobs, Pierre A.; and Uytterhoeven, Jan B., 4,670,620, Cl. 585-640.000.
- DE-BI Derivati Biologici International SpA: *See—*
  - Elefante, Biagio, 4,638,081, Cl. 560-40.000.
- De Forenede Bryggerier A/S: *See—*
  - Godtfredsen, Sven E.; Ottesen, Martin; and Larsen, Bent A., 4,708,875, Cl. 426-12.000.
- De-Icing System K.B.: *See—*
  - Magnusson, Kjell-Eric, 4,634,084, Cl. 244-134.00C.
- De La Rue Company PLC, The: *See—*
  - Etherington, Harry J. C.; Joslin, Paul C.; and Dunkley, Rowland A. G., 4,680,801, Cl. 382-3.000.
  - Etherington, Harry J. C.; Joslin, Paul C.; Carr, David E.; and Simpson-Davis, Raymond, 4,707,573, Cl. 178-18.000.
- De La Rue Giori S.A.: *See—*
  - Germann, Albrecht J., 4,633,777, Cl. 101-177.000.
  - Germann, Albrecht J., 4,697,515, Cl. 101-179.000.
  - Hernandez, Manolo, 4,640,189, Cl. 101-177.000.
  - Kuehfuss, Runwalt, 4,653,399, Cl. 101-426.000.
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  - Moore, John, 4,680,067, Cl. 156-165.000.
- De La Rue Systems Limited: *See—*
  - Chapman, Victor B.; and Potter, Michael, 4,650,320, Cl. 356-71.000.
  - Chapman, Victor B.; and Lacey, Paul D., 4,710,963, Cl. 382-7.000.
  - Conner, Trevor J.; and Jackson, Michael G., 4,660,818, Cl. 270-1.100.
  - Croset, Michael R.; and Lane, Martin, 4,650,991, Cl. 250-223.00R.
  - Croset, Michel R.; Lane, Martin; Winchester, Roy E.; and Worsley, David R., 4,707,598, Cl. 250-223.00R.
  - Huckle, Ralph E., 4,666,538, Cl. 156-73.100.
  - Hughes, Robert W., 4,676,495, Cl. 270-58.000.
  - Jenkins, Stuart M.; Spencer, Michael S.; and Mayfield, Ross, 4,709,820, Cl. 209-534.000.
  - Lane, Martin, 4,684,119, Cl. 271-4.000.
  - Martin, Harvey G., 4,651,982, Cl. 271-4.000.
  - Munn, Ernest A.; and Skinner, John A., 4,700,368, Cl. 377-8.000.
  - Wake, David E., 4,676,432, Cl. 232-43.200.
  - Wake, David E.; Robinson, Anthony L.; and Croset, Michel R., 4,708,335, Cl. 271-187.000.
- De La Cierva, Juan, Jr.: *See—*
  - De La Cierva, Juan, Sr.; and De La Cierva, Juan, Jr., 4,668,999, Cl. 360-14.100.
- De La Cierva, Juan, Sr.; and De La Cierva, Juan, Jr. Time base equalizer and corrector (TIBEC) for video tape or disk machines in playback modes. 4,668,999, 5-26-87, Cl. 360-14.100.
- de la Fonteijne, Marcel R., to B.V. Optische Industrie "De Oude Delft". Apparatus for the non-contact disintegration of concrements present in a body. 4,702,249, 10-27-87, Cl. 128-328.000.
- de la Guardia, Mario; and Kao, Ming-Luh, to Racal Data Communications Inc. Digital video sync detection. 4,654,708, 3-31-87, Cl. 358-148.000.
- De La Hoz, Jorge W. Dental floss device. 4,638,824, 1-27-87, Cl. 132-91.000.

De La Huerga, Carlos: *See—*
- Cudahy, Michael J.; De La Huerga, Carlos; Arneson, Harold N.; Divers, R. Thomas; and Altman, Barry J., 4,715,385, Cl. 128-710.000.

de la Morandiere, Anne J.; Bressler, Peter W.; Byar, Peter D.; and Spector, Edward A., to de la Morandiere, Anne J. Combination dryer and iron. 4,636,613, 1-13-87, Cl. 219-249.000.

de la Perriere, Nancy: *See—*
- Aubert, Jean, 4,704,052, Cl. 405-229.000.

De La Plaza, Alejandro, to SGS Microelettronica S.p.A. Sampling-data integrator with commutated capacitance utilizing a unitary-gain amplifier. 4,695,751, 9-22-87, Cl. 307-490.000.

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De La Plaza, Alejandro: *See—*
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De La Rosa, Roberto. Knitting machine head extractor. 4,659,072, 4-21-87, Cl. 269-17.000.

de la Salle, Christian; and D'Hervilly, Guy, to International Business Machines Corporation. Printer hammer resetting control system. 4,679,169, 7-7-87, Cl. 364-900.000.

De-Sta-Co Division/Dover Corporation: *See—*
- McPherson, Alexander W.; and Hamed, Hazem N., 4,637,597, Cl. 269-32.000.

Deacon, Bryan, to F. C. Brown (Steel Equipment) Limited. Locking member incorporating a cam lever lock and a sliding bolt. 4,658,611, 4-21-87, Cl. 70-360.000.

Deacon, Edwin R.: *See—*
- Swihart, William R.; and Deacon, Edwin R., 4,679,984, Cl. 415-163.000.

Deacon, George R.; and Cranford, William R., to ITT Corporation. Method and apparatus for molding fiber optic connector ferrule. 4,711,752, 12-8-87, Cl. 264-328.120.

Deacon, Kim: *See—*
- Lindemann, Martin K.; and Deacon, Kim, 4,683,165, Cl. 428-290.000.
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de Ahna, Dieter: *See—*
- Fischer, Robert; and de Ahna, Dieter, 4,696,700, Cl. 106-291.000.

Deal, Gregory K.; and Manco, Richard J., to Burroughs Corporation. Multi-purpose register for data and control paths having different path widths. 4,686,691, 8-11-87, Cl. 377-54.000.

Deal, Gregory K.: *See—*
- Hassler, Joseph A.; and Deal, Gregory K., 4,704,679, Cl. 364-200.000.

Deal, James F., III: *See—*
- Hayes, Michael E.; Hrebenar, Kevin R.; Deal, James F., III; and Bolden, Paul L., Jr., 4,666,457, Cl. 44-51.000.
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Deal, Roger: *See—*
- Coburn, Arthur E.; and Deal, Roger, 4,687,559, Cl. 204-110.000.

Deal, Samuel B.; and Bartch, Donald W., to RCA Corporation. CRT with internal contact stripe or patch and method of making said stripe or patch. 4,638,213, 1-20-87, Cl. 313-479.000.

Deambrosio, Carlos A., to Electrovert Limited. Vibratory wave soldering. 4,684,056, 8-4-87, Cl. 228-180.100.

Dean, Alan J.; and Hardy, Ian J., to British Petroleum Company p.l.c. Subsea tool launching equipment. 4,706,756, 11-17-87, Cl. 166-344.000.

Dean, Alvin; and Heath, Rodney T. Temperature sensitive control system for liquid motor and pump in a natural gas dehydration system. 4,676,806, 6-30-87, Cl. 55-20.000.

Dean, Andrew, to International Standard Electric Corporation. Local area network. 4,641,375, 2-3-87, Cl. 455-607.000.

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Dean, Arthur L.; Kraft, Robert E.; and Marshall, Kenneth M., to FMC Corporation. Electromagnetic vibratory exciter. 4,673,833, 6-16-87, Cl. 310-29.000.

Dean, Arthur L.; Kraft, Robert E.; and Marshall, Kenneth M., to FMC Corporation. Electromagnetic vibratory exciter. 4,701,647, 10-20-87, Cl. 310-29.000.

Dean, Barry D., to Atlantic Richfield Company. Partially crystalline poly(sulfone ester) resin. 4,645,820, 2-24-87, Cl. 528-171.000.

Dean, Barry D., to Atlantic Richfield Company. Impact modified polybutylene terephthalate resin molding compositions. 4,647,619, 3-3-87, Cl. 525-64.000.

Dean, Barry D., to Atlantic Richfield Company. Molding composition containing functionalized thermoplastic rubber and method. 4,650,828, 3-17-87, Cl. 525-92.000.

Dean, Barry D., to Atlantic Richfield Company. Methylmethacrylate/-phenylmaleimide copolymer and styrene/maleic anhydride copolymer containing polymer alloys. 4,663,390, 5-5-87, Cl. 525-73.000.

Dean, Barry D., to Atlantic Richfield Company. Modified acrylic polymers. 4,696,978, 9-29-87, Cl. 525-205.000.

Dean, Barry D., to Atlantic Richfield Company. Acrylic modified N-arylmaleimide copolymer molding composition. 4,701,493, 10-20-87, Cl. 524-504.000.

Dean, Barry D., to Atlantic Richfield Company. Impact modifier for imide containing copolymers. 4,703,085, 10-27-87, Cl. 525-91.000.

Dean, D. Michael: *See—*
- Mikula, Randy J.; Mikhail, Magdy W.; Dean, D. Michael; and Savage, John D., 4,671,098, Cl. 73-19.000.

Dean, James G. Novelty card. 4,697,364, 10-6-87, Cl. 40-445.000.

Dean, Pat M. Child's backpack. 4,662,549, 5-5-87, Cl. 224-153.000.

Dean, Ralph R. Cleaner composition. 4,673,524, 6-16-87, Cl. 252-118.000.

Dean, Raymond H., to Tempmaster Corporation. Thermostatically adjustable pressure regulator. 4,634,047, 1-6-87, Cl. 236-49.000.

Dean, Raymond H.: *See—*
- Carlson, Melvin C.; and Dean, Raymond H., 4,648,552, Cl. 236-49.000.
- Carlson, Melvin C.; and Dean, Raymond H., 4,694,988, Cl. 236-49.000.
- Carlson, Melvin C.; and Dean, Raymond H., 4,694,989, Cl. 236-49.000.

Dean, Richard T.: *See—*
- Nicolotti, Robert A.; and Dean, Richard T., 4,659,839, Cl. 548-546.000.

Dean, Robert A.: *See—*
- Fair, David L.; Dean, Robert A.; and Sangster, Arlon G., 4,714,534, Cl. 204-269.000.
- Woodard, Kenneth E., Jr.; Dean, Robert A.; Fair, David L.; and Fister, Julius C., Jr., 4,695,359, Cl. 204-255.000.

Dean, Robert E.: *See—*
- Chandross, Edwin A.; Dean, Robert E.; Gallagher, Patrick K.; Levy, Roland A.; Schrey, Frank; and Smolinsky, Gerald, 4,708,884, Cl. 427-39.000.

Dean, Robert R.: *See—*
- Oswald, Norman D.; Mankey, Harry S.; Dean, Robert R.; and Hudler, Dennis W., 4,685,527, Cl. 180-14.300.

Dean, Sheldon W., to Air Products and Chemicals, Inc. Aluminum inhibition system for wet rock wool insulation used in cryogenic systems. 4,662,921, 5-5-87, Cl. 62-45.000.

Dean, Walter C., II, to KCR Technology, Inc. Printer with drive on swinging platform. 4,642,661, 2-10-87, Cl. 346-153.100.

Dean, Walter C., II, to KCR Technology, Inc. Double blade rotary cutter apparatus. 4,651,605, 3-24-87, Cl. 83-209.000.

Dean, Walter C., II: *See—*
- Coburn, Richard J.; Dean, Walter C., II; Kegelman, Thomas D.; and Milliard, Norman L., 4,638,339, Cl. 346-153.100.

Deane, Graham; and Weightman, Barry O., to National Research Development Corporation. Suction-irrigation apparatus. 4,708,717, 11-24-87, Cl. 604-35.000.

Deane, Graham: *See—*
- Weightman, Barry O.; and Deane, Graham, 4,680,026, Cl. 604-33.000.

Deane, Norman P., to AE PLC. Actuators. 4,651,580, 3-24-87, Cl. 74-89.200.

Deane, Norman P., to AE PLC. Mechanical over-ride linkages. 4,712,443, 12-15-87, Cl. 74-470.000.

DeAngeles, John: *See—*
- Saito, Yasunori; and DeAngeles, John, 4,715,677, Cl. 350-96.230.

DeAngelis, Lawrence J. Home merchandise ordering telecommunications terminal. 4,654,482, 3-31-87, Cl. 379-95.000.

De Angelis, Pedro C.; and Dragicevic, Nedo D. L., to Darko Jorge Lazaneo Dragicevic. Beam balance with unequal arms and didder device. 4,715,458, 12-29-87, Cl. 177-172.000.

DeAngelis, Thomas P.; and Lachman, Irwin M., to Corning Glass Works. Preparation of monolithic catalyst supports having an integrated high surface area phase. 4,637,995, 1-20-87, Cl. 502-439.000.

DeAngelis, Thomas P.; and Day, John P., to Corning Glass Works. Method of filtering molten metals using a monolithic refractory honeycomb filter. 4,681,624, 7-21-87, Cl. 75-28.000.

De Antoniis, Mario; Fiorini, Mario; and Mazzamurro, Giuseppina, to Eniricerche S.p.A. Process for the synthesis of organofunctional silanes using isatoic anhydride or derivatives thereof. 4,714,769, 12-22-87, Cl. 556-419.000.

De Antoniis, Mario: *See—*
- Ascarelli, Paolo; Boccalon, Gianfranco; and De Antoniis, Mario, 4,652,497, Cl. 428-447.000.

DeAntonis, Ferdinand A.; and Murrell, William H., to Ausimont U.S.A., Inc. Coextrusion of thermoplastic fluoropolymers with thermoplastic polymers. 4,677,017, 6-30-87, Cl. 428-214.000.

Dearborn Chemicals Limited: *See—*
- Greaves, Brian; and Ingham, Paul, 4,692,315, Cl. 422-18.000.
- Greaves, Brian; and Grenside, Stuart J., 4,692,316, Cl. 422-16.000.
- Longworth, Stuart W.; and Baker, John G., 4,689,201, C 422-16.000.

Dearden, Geoffrey C.; Speare, Edward J.; Ueno, Katsuo; and Jone Donald N., to Hunting Oilfield Services (UK) Limited; and Kawasa Steel Corporation. Pipe connector. 4,673,201, 6-16-87, C 285-333.000.

Dearden, Guy L.; and Hayden, Owen, to National Nuclear Corporatio Limited. Tube-in-shell heat exchangers. 4,640,343, 2-3-87, C 165-70.000.

Dearing, J. C., and Rich, Donald R. Interior air vent shield. 4,712,343, 12-15-87, Cl. 52-221.000.

Dearman, Timothy C. External reforming pipe clamp. 4,666,138, 5-19-87, Cl. 269-43.000.

Dearman, Timothy C. Internal alignment clamp. 4,708,279, 11-24-87, Cl. 228-49.300.

Dearman, Timothy C. Welding fixture. 4,712,779, 12-15-87, Cl. 269-43.000.

Dearth, Leonard R.: *See*—
- Graham, George A., and Dearth, Leonard R., 4,664,218, Cl. 180-272.000.

Dearth, Timothy E.: *See*—
- Davis, Robert C.; Gibson, John W.; Skinner, Daniel S., Jr.; Dearth, Timothy E.; and Harris, Dale C., 4,649,042, Cl. 424-438.000.

Deary, William L., to Psychological Corporation, The. Transparency presentation device. 4,688,910, 8-25-87, Cl. 353-88.000.

Deasey, Paul. Grinder apparatus. 4,662,123, 5-5-87, Cl. 51-241.00A.

Deason, James R.: *See*—
- Miyano, Masateru; and Deason, James R., 4,683,241, Cl. 514-512.000.
- Mueller, Richard A.; Partis, Richard A.; and Deason, James R., 4,663,333, Cl. 514-346.000.
- Mueller, Richard A.; Partis, Richard A.; and Deason, James R., 4,711,903, Cl. 514-381.000.

Deasy, Richard E., to Rockwell International Corporation. Miniature tactical HF antenna. 4,652,888, 3-24-87, Cl. 343-791.000.

Deasy, William M.: *See*—
- Noel, Raymond; Robinson, William M.; Cherian, Gabe; Clifford, Thomas H.; Carlomagno, William D.; Deasy, William M.; Grassauer, Willie K.; Haygood, David K.; Sherlock, H. Paul; and White, Harry E., 4,712,721, Cl. 228-56.300.

D'Eath, Roderick M.: *See*—
- Ackland, Martin R., and D'Eath, Roderick M., 4,653,337, Cl. 73-866.500.
- Clarke, John; D'Eath, Roderick M.; and Haycock, Derek E., 4,687,612, Cl. 264-322.000.

Deaton, Charles U. Multi-purpose stadium system. 4,688,357, 8-25-87, Cl. 52-9.000.

Deaton, Thomas M., to Otis Engineering Corporation. Safety valve. 4,664,195, 5-12-87, Cl. 166-323.000.

Deaton, Thomas M., to Otis Engineering Corporation. Safety valve. 4,708,163, 11-24-87, Cl. 137-460.000.

Deaton, Thomas P.; and Stein, Eric D., to Buckhorn Material Handling Group Inc. One hundred eighty degree stack and nest bakery tray with bails. 4,643,310, 2-17-87, Cl. 206-506.000.

Deaton, Thomas P., and Daniels, Timothy R., to Buckhorn Material Handling Group Inc. Crustacean trap. 4,648,199, 3-10-87, Cl. 43-100.000.

Deaton, Thomas P.: *See*—
- Miller, Daniel R.; Daniels, Timothy R.; and Deaton, Thomas P., 4,648,200, Cl. 43-102.000.
- Miller, Daniel R.; and Deaton, Thomas P., 4,688,675, Cl. 206-508.000.

Deavenport, Joe E. Uninterruptible power supply. 4,634,888, 1-6-87, Cl. 307-48.000.

Deavenport, Joe E.: *See*—
- Scolari, John E.; Warner, Robert T.; and Deavenport, Joe E., 4,678,450, Cl. 446-405.000.

Deaver, Randall L.; and Milligan, John L., to International Business Machines Corporation. Off-line notification and communication network. 4,654,656, 3-31-87, Cl. 340-825.080.

de Baan, Johannes J.: *See*—
- Munning, Hans; Bock, Jurgen; Oldach, Bernd; Ladic, Josef; Rauert, Max-Otto; Emde, Hugo; Petzsch, Dietrich; and de Baan, Johannes J., 4,660,686, Cl. 188-280.000.
- Munning, Hans; Bock, Jurgen; Oldach, Bernd; Ladic, Josef; Rauert, Max-Otto; Emde, Hugo; Petzsch, Dietrich; and de Baan, Johannes J., 4,673,067, Cl. 188-299.000.

Debabov, Vladimir G.; Tsygankov, Jury D.; Chistoserdov, Andrei J.; Sverdlov, Evgeny D.; Izotova, Lara S.; Kostrov, Sergei V.; Sterkin, Viktor E.; Kuznetsov, Vladimir P.; Belyaev, Sergei V.; Monastyrskaya, Galina S.; Salomatina, Irina S.; Dolganov, Grigory M.; Arsenian, Sergei G.; Tsarev, Sergei A.; Kozlov, Jury I.; Strongin, Alexandr Y.; Ogarkov, Vsevolod I.; and Ovchinnikov, Jury A., to Vsesojuzny Nauchno-Issledovatelsky Institut Genetiki. Method for producing human leukocyte interferon alpha-2. 4,680,260, 7-14-87, Cl. 435-68.000.

De Backer, Emile, to Laboratoires Biotrol. Device for elimination of urine through ureterostoma. 4,650,474, 3-17-87, Cl. 604-180.000.

De Baere, Luc, to Ateliers de Constructions Electriques de Charleroi. Process and installation for anaerobic digestion. 4,684,468, 8-4-87, Cl. 210-603.000.

Debaisieux, Andre; and Aubry, Jean P., to Compagnie d'Electronique et de Piezo-Electricite. Cold-seal package for withstanding high temperatures. 4,686,324, 8-11-87, Cl. 174-17.050.

De Barbieri, Augusto, to Proter S.p.A. Intravenous or intraperitoneal administration of a tripeptide compound for treating cancer. 4,666,887, 5-19-87, Cl. 514-18.000.

Debarbieri, Franco; Montorsi, Roberto; and Zaramella, Giancarlo, to Armco Inc. Programmable automatic manipulator system. 4,642,752, 2-10-87, Cl. 364-167.000.

Debarge, Philippe. Sailboard. 4,653,416, 3-31-87, Cl. 114-39.000.

Debaudringhien, Andre, to Dictaphone Corporation. One-way clutch assembly with pawl and ratchet. 4,692,825, 9-8-87, Cl. 360-96.300.

Debbaut, Christian A., to Raychem Corporation. Apparatus and method for protection of a substrate. 4,634,207, 1-6-87, Cl. 339-116.00C.

Debbaut, Christian A. M.; Gac, Norman; Lopez, Eugene F.; Moyer, Wendell W.; Terrell, David; and Tsou, Patrick K., to Raychem Corp. Protection of cable splice. 4,670,069, 6-2-87, Cl. 156-48.000.

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- Diaz, Stephen H.; Debbaut, Christian A. M.; Humphries, William H.; Lawrence, Alvah A.; Ragland, Glen W.; and Shimirak, Gerald L., 4,648,919, Cl. 156-48.000.

Debeaud, Pierre, to Albert Denis S.A. Method for heat control of hot runner molds. 4,707,310, 11-17-87, Cl. 264-40.600.

DeBeers Industrial Diamond Division (Propietary): *See*—
- Tank, Klaus; and Tomlinson, Peter N., 4,679,858, Cl. 299-91.000.

DeBell, Gary W.; Wright, David L.; Ruddock, Kenneth A.; Petersen, Alan B.; Carlson, Lee R.; and von Gunten, Marc K., to Spectra-Physics, Inc. Optical component of a laser. 4,685,110, 8-4-87, Cl. 372-103.000.

Debell, Lawrence R., to Phi Technologies, Inc. Programmable annunciator. 4,636,880, 1-13-87, Cl. 360-72.300.

DeBello, Robert J. Extended life starter motor. 4,665,320, 5-12-87, Cl. 290-48.000.

Debely, Pierre E., to Eltech Systems Corporation. Boride-alumina composite. 4,647,405, 3-3-87, Cl. 252-518.000.

Debeneix, Pierre; and Tournere, Marcel J., to Societe Nationale d'Etude et de Construction de Moteur d'Aviation S.N.E.C.M.A. Multiflow turbojet engine secondary flow adjusting device. 4,638,631, 1-27-87, Cl. 60-226.300.

Debenham, Barbara S., executor: *See*—
- Debenham, Michael, deceased; Carmine, Patrick S., executor; Debenham, Barbara S., executor; Debenham, David, executor; Dalli, Alan G.; and Revill, Peter L., 4,671,720, Cl. 413-58.000.

Debenham, David, executor: *See*—
- Debenham, Michael, deceased; Carmine, Patrick S., executor; Debenham, Barbara S., executor; Debenham, David, executor; Dalli, Alan G.; and Revill, Peter L., 4,671,720, Cl. 413-58.000.

Debenham, Michael; and Farfor, James D., to Broken Hill Proprietary Company Limited, The. Oven. 4,677,757, 7-7-87, Cl. 34-4.000.

Debenham, Michael, deceased; by Carmine, Patrick S., executor; by Debenham, Barbara S., executor; by Debenham, David, executor; Dalli, Alan G.; and Revill, Peter L., to Broken Hill Proprietary Company Limited, The. Can end manufacture. 4,671,720, 6-9-87, Cl. 413-58.000.

DeBeradinis, Donald L. Method for lubricating electrical wiring pulled through installed conduit. 4,688,762, 8-25-87, Cl. 254-134.3FT.

DeBergalis, Michael, to Du Pont de Nemours, E. I., and Company. Polymers containing resorcinol monobenzoate. 4,636,431, 1-13-87, Cl. 428-327.000.

De Bernardi, Stefano, to Carbolux S.p.A. Process and apparatus for joining protective plastic films to an extruded plastic sheet, with the aid of an auxiliary plastic film. 4,661,186, 4-28-87, Cl. 156-230.000.

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DeBernardis, John F.; and Basha, Fatima Z., to Abbott Laboratories. Adrenergic amidines. 4,634,705, 1-6-87, Cl. 514-256.000.

Debernardis, John F.: *See*—
- Winn, Martin; and Debernardis, John F., 4,665,095, Cl. 514-401.000.

Debettin, Joseph H. P.: *See*—
- Mark, Alfred J.; and Debettin, Joseph H. P., 4,708,760, Cl. 156-362.000.

deBeys, Anthony J. Heat exchange apparatus and process for rotary kilns. 4,676,740, 6-30-87, Cl. 432-103.000.

Debevec, Anthony F. Fuel/oil pump. 4,690,108, 9-1-87, Cl. 123-73.0AD.

DeBey, Timothy M.: *See*—
- Simons, Gale G.; and DeBey, Timothy M., 4,636,642, Cl. 250-337.000.

DeBin, Rene F.; and Lambrecht, Emiel Y., to FMC Corporation. Web cutting method and apparatus. 4,638,702, 1-27-87, Cl. 83-509.000.

DeBin, Rene F., to FMC Corporation. Twin wicketing bag machine. 4,693,701, 9-15-87, Cl. 493-204.000.

Debiopharm, S.A.: *See*—
- Orsolini, Piero; Mauvernay, Rolland-Yves; and Deghenghi, Romano, 4,673,595, Cl. 427-213.320.

Debitek, Inc.: *See*—
- Capers, Joseph G.; and Korando, Kenneth E., 4,669,596, Cl. 194-210.000.

De Blauwe, Francis J. A. M. C.: *See*—
- Doucet, Jozef G. A.; Pieck, Amandus L. E.; and De Blauwe, Francis J. A. M. C., 4,675,512, Cl. 219-535.000.

De Blok, Cornelis M.; and Matthijsse, Pieter, to Staat der Nederlanden (Staatsbedrijf der Posterijen, Telegrafte en Telefonie). Apparatus for coupling an optical signal from a first light guide into a second light guide. 4,645,923, 2-24-87, Cl. 250-227.000.

Deboeck, Arthur M., to Pharlyse. Anticonvulsant valproic acid salts. 4,699,927, 10-13-87, Cl. 514-564.000.

De Boel, Marcel; Bosquee, Michel; and Goelff, Pierre, to Glaverbel. Transparent fire screening panels and their manufacture. 4,654,268, 3-31-87, Cl. 428-426.000.

DeBoer, Charles D.; and Luckey, George W., to Eastman Kodak Company. Fluorescent compositions, x-ray intensifying screens, and processes for making same. 4,637,898, 1-20-87, Cl. 252-301.360.

DeBoer, Charles D., to Eastman Kodak Company. Photopolymerizable thioacrylate monomers. 4,654,431, 3-31-87, Cl. 558-257.000.

DeBoer, Edward D.: *See—*
Francis, H. Paul; DeBoer, Edward D.; and Wermers, Vilas L., 4,652,384, Cl. 252-8.510.

De Boer, Gerben F., to Centraal Diergeneeskundig Instituut. Live purified Marek's disease vaccine. 4,673,572, 6-16-87, Cl. 424-89.000.

DeBoer, Harry F., to ServiceMaster Industries, Inc. Apparatus for bedding control in health care institutions. 4,656,765, 4-14-87, Cl. 40-491.000.

de Boer, Nico; and Menard, Stafford J., to McDermott International, Inc. Articulated barge for towing and launching offshore structures. 4,651,667, 3-24-87, Cl. 114-77.00A.

DeBoer, Stanley E., Jr.: *See—*
DeBoer, William M.; DeBoer, Stanley E., Jr.; and Hykes, Robert C., 4,705,269, Cl. 272-73.000.

deBoer, Wiebe B.: *See—*
Robinson, McDonald; Behee, Ronald D.; deBoer, Wiebe B.; and Johnson, Wayne L., 4,654,509, Cl. 219-405.000.

DeBoer, William M.; DeBoer, Stanley E., Jr.; and Hykes, Robert C., to DeBoer, William M.; and DeBoer, Stanley E., Jr. Exercise apparatus. 4,705,269, 11-10-87, Cl. 272-73.000.

De Bold, Adolfo J., to Queen's University at Kingston. Process for extracting atrial natriuretic factor. 4,647,455, 3 3-87, Cl. 424-95.000.

de Bold, Adolfo J., to Queen's University at Kingston. Atrial natriuretic peptide. 4,663,437, 5-5-87, Cl. 530-324.000.

Debolini, Paolo, to Italvacuum di Ing. P. Debolini & C. S.A.S. Rotary drier for drying heat-sensitive products and pharmaceuticals. 4,698,917, 10-13-87, Cl. 34-92.000.

DeBolt, Richard R., to General Motors Corporation. Spark plug shield and boot seal assembly. 4,671,586, 6-9-87, Cl. 439-126.000.

De Bont, Marinus R. J.: *See—*
Kivits, Petrus J.; and De Bont, Marinus R. J., 4,675,227, Cl. 428-195.000.

De Boodt, Marcel F. L. P.; De Strooper, Eric B. A.; and Van Meirvenne, Marc R., to Labofina, S.A. Process for consolidating soils. 4,697,961, 10-6-87, Cl. 405-264.000.

DeBorde, Henri C.: *See—*
LeGrand, Maurice; and DeBorde, Henri C., 4,671,529, Cl. 280-610.000.

DeBortoli, George; Contardo, Remo; and Aujla, Sharanjit S., to Northern Telecom Limited. Cable terminal connector with insulation displacing terminals. 4,652,071, 3-24-87, Cl. 339-99.00R.

Debortoli, George: *See—*
Aujla, Sharanjit S.; Debortoli, George; and Contardo, Remo, 4,682,835, Cl. 439-395.000.

de Bosio, Alfredo: *See—*
Astegiano, Luciano; Bertoglio, Ottavio; Bosco, Fulvio; de Bosio, Alfredo; Franco, Dario; Lampiano, Piero; Melle, Antonio; and Rosboch, Luciano, 4,706,270, Cl. 379-2.000.

Debourge, Jean-Claude: *See—*
Place, Pierre; Anding, Claude; and Debourge, Jean-Claude, 4,677,128, Cl. 514-277.000.

Debouzie, Alain; and Sainte-Foi, Daniel, to Isover Saint-Gobain. Supply of fiber material in fiber producing techniques. 4,664,691, 5-12-87, Cl. 65-6.000.

Debreczeny, Istvan: *See—*
Ress, Piroska; Kiss, Istvan; Miltenyi, Geza; Strahl, Antal; Petro, Imre; Farkas, Jozsef; Biacs, Peter; Kozma, Istvanne; and Debreczeny, Istvan, 4,670,274, Cl. 426-240.000.

De Bree, Hans: *See—*
Ruijten, Henri M.; De Bree, Hans; and Van Amsterdam, Peter H., 4,697,428, Cl. 62-124.000.

Debreuille, Pierre-Jean, to Telemac; and Commissariat a l'Energie Atomique. Process and device for casing a borehole for the measurement of the interstitial pressure of a porous medium. 4,662,442, 5-5-87, Cl. 166-250.000.

De brey, Robert J., to Geneva Group of Companies, Inc. Compact digital disc cleaner apparatus. 4,641,391, 2-10-87, Cl. 15-104.940.

de Brie Perry, Forbes G., to National Research Development Corporation. Continuously-variable-ratio transmission having a single input member. 4,638,687, 1-27-87, Cl. 74-691.000.

de Brie Perry, Forbes G., to National Research Development Corporation. Continuously-variable ratio transmission. 4,691,592, 9-8-87, Cl. 74-691.000.

de Brock, Raoul, to Theodor Hymmen, Firma. Device for applying surface pressure to an advancing workpiece. 4,665,819, 5-19-87, Cl. 100-154.000.

Debrodt, Heiner; Kluger, Petra; and Lieberoth, Dieter, to Sigri GmbH. Anode for electrochemical process. 4,663,010, 5-5-87, Cl. 204-293.000.

De Bruijn, Alexis M. R., to Koni B. V. Hydraulic twin-pipe shock absorber. 4,673,068, 6-16-87, Cl. 188-315.000.

De Bruine, Mark; and Spotts, Kenneth, to AP Industries, Inc. Universal bracket assembly. 4,638,965, 1-27-87, Cl. 248-59.000.

de Brunier, Bernard: *See—*
Stewart, John B., Jr.; Szalvay, Laszlo; de Brunier, Bernard; and Simpson, Jeffrey W., 4,637,436, Cl. 138-89.000.

DeBruyn, Frank E., Jr.; and Weed, Lucretia J., to Polaroid Corporation. Photographic element and method for forming transparencies. 4,690,884, 9-1-87, Cl. 430-206.000.

de Bruyn, Johannes C. G. H.: *See—*
Loos, Johannes A.; Eitjes, Willem; and de Bruyn, Johannes C. G. H., 4,663,032, Cl. 210-97.000.

De Bruyn, Marcel F. L.: *See—*
Van Lommen, Guy R. E.; De Bruyn, Marcel F. L.; and Schroven, Marc F. J., 4,654,362, Cl. 514-452.000.

DeBruyn, William, to Amerock Corporation. Turn-out shelf assembly for a cabinet. 4,639,051, 1-27-87, Cl. 312-275.000.

DeBruyn, William, to Amerock Corporation. Apparatus for organizing storage containers in a cabinet. 4,653,818, 3-31-87, Cl. 312-246.000.

DeBruyn, William, to Amerock Corporation. Concealed self-closing hinge. 4,692,964, 9-15-87, Cl. 16-367.000.

de Buda, Francis, to Stephens, John A. Treatment of sericitic clays to produce an adsorbent, absorbent product. 4,656,150, 4-7-87, Cl. 502-83.000.

de Buda, Francis, to Excel-Mineral Company, Inc. Structures containing immobilized microbial cells. 4,659,664, 4-21-87, Cl. 435-176.000.

de Buda, Francis, to Excel-Mineral Company, Inc. Method for recovery and conversion of strontium sulfate to strontium carbonate from low and medium grade celestite ores. 4,666,688, 5-19-87, Cl. 423-165.000.

deBuhr, Harold E.: *See—*
Williams, Terry A.; deBuhr, Harold E.; Dolberg, Dale R.; and Suechting, Henry W., Jr., 4,663,918, Cl. 56-10.200.

De Burgat, Michel; Le Traon, Andre; Pilet, Jean-Claude; and Sharaiha, Ammar, to Universite de Rennes I. Method and apparatus for rapidly testing capacitors and dielectric materials. 4,683,417, 7-28-87, Cl. 324-60.00C.

Debus, Jurgen; Koch, Hans-Georg; Zachrei, Jurgen; and Butergerds, Helmut, to Rittal-Werk Rudolf Loh GmbH & Co. KG. Framewor for a switchboard cabinet. 4,643,319, 2-17-87, Cl. 211-189.000.

Debus, Jurgen; Zachrei, Jurgen; and Butergerds, Helmut, to Rittal Werk Rudolf Loh GmbH & Co. KG. Switch cabinet base. 4,650,26 3-17-87, Cl. 312-257.0SM.

Debus, Walter, Jr.; Osborne, Thomas L.; and Siller, Curtis A., Jr., American Telephone and Telegraph Company, AT&T Bell Labor tories. Digital synthesis technique for pulses having predetermine time and frequency domain characteristics. 4,710,891, 12-1-87, C 364-718.000.

de Buyer, Edouard: *See—*
Carminati, Armelle; de Buyer, Edouard; Monomakhoff, Nicol and Chanut, Roland, 4,639,955, Cl. 5-81.00B.

Dec, Bryan J.: *See—*
Wnuck, Wayne G.; Dec, Bryan J.; and Jarvis, Raymond 4,654,195, Cl. 419-2.000.

DEC International, Inc.: *See—*
Ernstrom, Carl A.; and Brown, Charles G., 4,689,234, 426-38.000.
Gehring, Kenneth C.; and Rustebakke, Ralph K., 4,665,712, 62-325.000.
Huang, Min N.; Brethorst, David L.; and Ryan, Richard 4,665,812, Cl. 99-535.000.
Huang, Min-Nan; and Brethorst, David L., 4,670,280, 426-465.000.

Dec, Krystyna: *See—*
Allred, David; Dec, Krystyna; Jackett, Nancy; Van Nguyen, and Reyes, Jaime, 4,654,224, Cl. 427-34.000.

Decaens, Remy: *See—*
Caillerie, Jean-Louis; Decaens, Remy; and Limare, Arma 4,636,354, Cl. 420-514.000.
Caillerie, Jean-Louis; Decaens, Remy; and Limare, Arma 4,699,815, Cl. 427-433.000.

Decagny, Michel: *See—*
Fugier, Roger; de Mezerac, Charles D.; Joachim, Jacky; Decagny, Michel, 4,663,419, Cl. 528-164.000.
Fugier, Roger; de Goys de Mezerac, Charles; Joachim, Jacky; Decagny, Michel, 4,710,406, Cl. 427-389.800.

Decailloz, Claude: *See—*
Chastanet, Bernard; Decailloz, Claude; Dournel, Solange; Manson, Marcel, 4,636,606, Cl. 219-121.0LC.

DeCamp, Howard S.: *See—*
Voss, David L.; DeCamp, Howard S.; and Culp, Gordon 4,707,586, Cl. 219-203.000.

de Campos, Joaquim C.: *See—*
Barbosa, Antonio B.; and de Campos, Joaquim C., 4,637,517 211-86.000.

de Canecaude, Emmanuel. Device for weighing individuals on a seat. 4,697,656, 10-6-87, Cl. 177-144.000.

DeCaprio, Vincent H. Localizing biopsy apparatus. 4,682,606, 7-2 Cl. 128-754.000.

de Carle, John T., to N.G. Trustees & Nominees, Ltd. Bifocal co lenses. 4,704,016, 11-3-87, Cl. 351-161.000.

de Carli, Elsa, Silvana Bianchi and Giovanni Bianchi, Legal Repr atives: *See—*
Bianchi, Mario, deceased; and Barzaghi, Fernando, 4,694,01 514-461.000.

DeCarlo, David J.: *See—*
Rynk, Anthony J.; and DeCarlo, David J., 4,637,136 29-872.000.

DeCarlo, Frank S.; and Rosen, Frank L., to Allied Corporation. compass navigation system for land vehicles. 4,693,114, 9-15- 73-178.00R.

Decarolis, Joseph P., to Stanley Works, The. Folding pocke 4,660,284, 4-28-87, Cl. 30-157.000.

Decarsin, Michel: *See—*
  Vere, Bernard; Mathevon, Paul; and Decarsin, Michel, 4,633,569, Cl. 29-514.000.

DeCasper, Wayne. Container lid seating tool. 4,646,409, 3-3-87, Cl. 29-243.500.

de Castiglione, Roberto: *See—*
  Scarponi, Ugo; Lazzarini, Anna M.; Toti, Daniela; and de Castiglione, Roberto, 4,716,228, Cl. 540-578.000.

Decaudin, Jean-Michel: *See—*
  Denis, Jean; and Decaudin, Jean-Michel, 4,713,552, Cl. 250-577.000.

Decaudin, Michel: *See—*
  Boissier, Andre ; Chabat-Courrede, Jean; and Decaudin, Michel, 4,707,002, Cl. 285-334.200.

Decaudin, Robert; Gurtner, Bernard; and Gagnieur, Andre, to Atochem. Process for the preparation of brominated derivatives of diphenyl ether. 4,701,564, 10-20-87, Cl. 568-639.000.

DeCell, Alonzo L.; Perkin, Gregg S.; and Patarini, Peter, to LOR, Inc. Heavy wall drill pipe and method of manufacture of heavy wall drill pipe. 4,674,171, 6-23-87, Cl. 29-558.000.

De Cesare, Dominc. Compound induction electric rotating machine. 4,683,388, 7-28-87, Cl. 310-46.000.

De Cesare, Jim L.: *See—*
  Soltermack, Gilbert W., 4,706,462, Cl. 60-712.000.

Dech, James A., to Atlantic Richfield Company. Drainhole well completion. 4,714,117, 12-22-87, Cl. 166-380.000.

Dechaine, Robert: *See—*
  Efstathiou, John D.; Dechaine, Robert; and Zoss, Robert, 4,676,988, Cl. 426-271.000.

Dechambre, Monique: *See—*
  Lavergnat, Jacques; and Dechambre, Monique, 4,670,712, Cl. 324-78.00R.

Decheim, Robert: *See—*
  Lamson, Frederick W.; Lansing, Richard; Decheim, Robert; and Martin, William, 4,673,092, Cl. 211-188.000.

Dechelette, Helen, to Molex Incorporated. Low profile stacking connector for printed circuit boards. 4,634,200, 1-6-87, Cl. 339-17.00M.

Dechelette, Helen, to Molex Incorporated. Board mounted cable connector. 4,657,329, 4-14-87, Cl. 339-97.00P.

Dechene, Fernand J., to International Oxygen Company, Inc. Control system for fluid absorption systems and the like. 4,698,075, 10-6-87, Cl. 55-163.000.

Dechene, Ronald L.; and Newton, Robert E., to Auburn International, Inc. Flow measuring apparatus with analog, essentially linear output. 4,714,890, 12-22-87, Cl. 324-454.000.

Dechent, Hans-Mario: *See—*
  Wiesenberger, Alfred; Schildmann, Jens A.; Kolb, Erich; and Dechent, Hans-Mario, 4,702,922, Cl. 426-51.000.

Dechirot, Jean-Pierre, to Societe Vynex SA. Device for hanging and spacing packages which are presented on pegs, and packaging box equipped with this device. 4,660,723, 4-28-87, Cl. 206-493.000.

DeChristopher, Eugene L., to Boboli, Inc. Method of making a pizza-type product of dough. 4,696,823, 9-29-87, Cl. 426-496.000.

Decibel Products, Inc.: *See—*
  Brown, Stewart L.; and Cartin, Andrew J., 4,675,621, Cl. 333-1.100.

Decima, Fredy, to ABG Semca. Rapid discharge extinguisher. 4,637,472, 1-20-87, Cl. 169-35.000.

Deck, Brent D. Heat exchanging with slowly rotating finned elements. 4,660,627, 4-28-87, Cl. 165-86.000.

Deck, Brent D. Contaminated fluid heat exchanging. 4,690,208, 9-1-87, Cl. 165-119.000.

Deck, Charles F.; and Carson, James E., to BASF Corporation. Water-based functional fluids thickened by the interaction of an associative polyether thickener and certain fatty acid amides. 4,640,791, 2-3-87, Cl. 252-75.000.

Deck, Charles F.: *See—*
  Owens, James P.; and Deck, Charles F., 4,673,518, Cl. 252-75.000.

Deckelmann, Karl; Hornung, Jurgen; Jones, Graham S.; Kersting, Roland; Reynolds, Quentin; and Taitl, Ino, to W. C. Heraeus GmbH. Composite substrate for printed circuits and printed circuit-substrate combination. 4,689,270, 8-25-87, Cl. 428-432.000.

Deckelmann, Karl: *See—*
  Elster, Werner; Koch, Horst; Ost, Gustav; Simon, Werner; Deckelmann, Karl; and Taitl, Ino, 4,659,986, Cl. 324-158.00F.

Decker, Clifford: *See—*
  Werner, Roy H.; and Decker, Clifford, 4,642,919, Cl. 37-58.000.

Decker, Dale D.; and Stanhope, Mary E., to International Business Machines Corporation. Document reading envelope depository. 4,696,426, 9-29-87, Cl. 232-43.100.

Decker, David G.: *See—*
  Benoit, Albert J.; Boden, Dudley M.; Decker, David G.; Kishner, Stanley J.; and Van Arsdell, Robert D., 4,706,206, Cl. 364-526.000.

Decker, Henry P. Scribing tool for wall panels and the like. 4,656,744, 4-14-87, Cl. 33-41.500.

Decker, John A., Jr., to Kuau Technology, Ltd. Automatic sextant. 4,707,926, 11-24-87, Cl. 33-267.000.

Decker, John R. Replaceable blade knife. 4,646,440, 3-3-87, Cl. 30-339.000.

Decker, John R. Knife with replaceable blade. 4,660,287, 4-28-87, Cl. 30-339.000.

Decker, Joseph A., Jr.; Fiore, Joseph F., Jr.; and Katz, Stanley A., to Igloo Corporation. Accessory bag for containers. 4,640,392, 2-3-87, Cl. 190-108.000.

Decker, Lewis B., Jr.: *See—*
  Leach, Bruce E.; and Decker, Lewis B., Jr., 4,676,928, Cl. 252-313.100.

Decker, Martin J.: *See—*
  Hopwood, Francis W.; Caldwell, Stephen P.; and Decker, Martin J., 4,639,688, Cl. 331-10.000.

Decker, Oscar C., Jr.; and Kleemann, Eugene. Tire deflation mechanism. 4,681,148, 7-21-87, Cl. 152-431.000.

Decker, Paula: *See—*
  Kallianos, Andrew G.; Sprinkel, Francis M., Jr.; and Decker, Paula, 4,677,995, Cl. 131-335.000.

Decker, Ramsay P.: *See—*
  Duppong, Denis E.; McGrew, Bernard L.; and Decker, Ramsay P., 4,649,375, Cl. 340-660.000.

Decker, Raymond F.: *See—*
  Brierley, James A.; Brierley, Corale L.; Decker, Raymond F.; and Goyak, George M., 4,690,894, Cl. 435-244.000.

Decker, Robert W., to Ingersoll-Rand Company. Liquid intensifier unit. 4,690,622, 9-1-87, Cl. 417-342.000.

Decker, Ronald G.; Hohmann, John P.; and Morones, George R., to Electrovert Limited. Pallet for holding components in a soldering machine. 4,667,868, 5-26-87, Cl. 228-49.100.

Decker, William J. Underground pipe and cable laying machine. 4,685,832, 8-11-87, Cl. 405-184.000.

Deckers, Hellmuth, to Hoechst Aktiengesellschaft. Process for the preparation of aromatic polyethers with mixture of carbonate catalysts. 4,636,557, 1-13-87, Cl. 528-126.000.

Deckert, Clinton; and Wilson, Larry L., to Centaur Sciences, Inc. Flow control system. 4,681,563, 7-21-87, Cl. 604-67.000.

Deckman, Harry W.; Stephens, Richard B.; Tiedje, J. Thomas; and Abeles, Benjamin, to Exxon Research and Engineering Company. Micro-porous superlattice material having zeolite-like properties. 4,701,366, 10-20-87, Cl. 428-188.000.

Deckman, Harry W.: *See—*
  Roxlo, Charles B.; and Deckman, Harry W., 4,690,750, Cl. 208-310.00Z.

Deckner, George E., to Charles of the Ritz Group Ltd. Method for testing skin for presence of moisturizer. 4,690,815, 9-1-87, Cl. 424-9.000.

de Claviere, Michel: *See—*
  Prost, Maurice; de Claviere, Michel; and Polster, Peter, 4,663,330, Cl. 514-312.000.

Declerck, Fredy: *See—*
  Collart, Andre ; and Declerck, Fredy, 4,691,000, Cl. 528-244.000.

Declerck, Gilbert J.: *See—*
  Sevenhans, Johannes M.; and Declerck, Gilbert J., 4,658,281, Cl. 357-30.000.

Declerco, Marc: *See—*
  Mouille, Rene L.; Declerco, Marc; Jalaguier, Jean-Pierre; and Jaugey, Bernard, 4,639,284, Cl. 156-213.000.

DeCloux, Richard J. Phasing system for exercise stair. 4,681,316, 7-21-87, Cl. 272-130.000.

DeCloux, Richard J. Climbing simulation exercise device. 4,685,666, 8-11-87, Cl. 272-70.000.

DeCloux, Richard J. Descent speed control for exercise stair. 4,685,669, 8-11-87, Cl. 272-130.000.

De Clue, Larry W.: *See—*
  Price, John E.; and De Clue, Larry W., 4,675,553, Cl. 307-455.000.
  Price, John E.; and De Clue, Larry W., 4,680,486, Cl. 307-475.000.

Deco Tools, Inc.: *See—*
  Faber, Elmer L., 4,662,310, Cl. 118-503.000.

Decobert, Guy; Dubois, Jean C.; and Soyer, Francoise, to Thomson-CSF. Thermotropic polymers with lateral chains having a chiral structure and process and their manufacture. 4,661,576, 4-28-87, Cl. 526-298.000.

Decock, Bernard: *See—*
  Rosseel, Rik; Decock, Bernard; Wyffels, Marc; and Ampe, Frank, 4,673,004, Cl. 139-435.000.

De Coi, Beat; and Keller, Hans-Peter, to Gebruder Loepfe AG. Method of regulation and regulating device for an apparatus or group of apparatuses, as well as an apparatus having a regulating device. 4,700,289, 10-13-87, Cl. 364-150.000.

De Coi, Beat: *See—*
  Stutz, Hansruedi; and De Coi, Beat, 4,635,216, Cl. 364-562.000.

Deconinck, Filip: *See—*
  Van Bogaert, Philippe; and Deconinck, Filip, 4,715,411, Cl. 139-452.000.

De Cook, Edwin R.: *See—*
  Leary, Sharon M.; Steward, John C.; Commisso, Nicholas D.; De Cook, Edwin R.; Hisle, Ralph E.; and Rowe, Donald, 4,653,685, Cl. 229-2.50R.

de Corlieu, Guy: *See—*
  Huignard, Jean-Pierre; Malard, Marcel; and de Corlieu, Guy, 4,639,091, Cl. 350-347.00V.

de Cortanze, Andre, to Elf France. Manual actuating device, especially for steering a motorcycle. 4,641,849, 2-10-87, Cl. 280-270.000.

de Cortanze, Andre, to Elf France. Coupling device between a front suspension and a rear suspension of a vehicle. 4,650,027, 3-17-87, Cl. 180-227.000.

de Cortanze, Andre, to Elf France. Suspension and or shock-absorbing device for a support arm of a vehicle wheel. 4,653,604, 3-31-87, Cl. 180-227.000.

Decorte, Enio: *See—*
  Miccoli, Pietro; and Decorte, Enio, 4,704,361, Cl. 435-188.000.

de Costa, Brian: *See—*
  Holick, Michael F.; and de Costa, Brian, 4,661,294, Cl. 260-397.200.

DeCoste, Leonard D., Jr.; and Mamish, Abboud L., to Kendall Company, The. Adhesive tapes having a foamed backing and method for making same. 4,705,715, 11-10-87, Cl 428-246.000.

Decoster, Didier; Fauquembergue, Renaud; and Constant, Monique, to Centre National de la Recherche Scientifique. Process for producing a photoelectric detector of the high-sensitivity photoresistor type. 4,652,335, 3-24-87, Cl 156-643.000.

DeCote, Robert, to Cordis Corporation. Low-power consumption cardiac pacer based on automatic verification of evoked contractions. 4,674,508, 6-23-67, Cl. 128-419.0PT.

DeCote, Robert, Jr.; and Tarjan, Peter P., to Cordis Corporation. Sense margin evaluation system and method for using same. 4,640,285, 2-3-87, Cl. 128-419.0PT.

DeCote, Robert, Jr., to Cordis Corporation. System and method for detecting evoked cardiac contractions. 4,674,509, 6-23-87, Cl. 128-419.0PT.

DeCote, Robert, Jr., to Cordis Corporation. Unsaturable sense amplifier for pacer system analyzer. 4,677,986, 7-7-87, Cl. 128-697.000.

DeCote, Robert, Jr., to Cordis Corporation. Automatic cardiac capture threshold determination system and method. 4,708,142, 11-24-87, Cl 128-419.0PT.

de Couasnon, Tristan: *See—*
- Vernhet, Jean; and de Couasnon, Tristan, 4,636,859, Cl 358-147.000.

De Courville, Arnaud, to Societe Anonyme Dite "Plymouth Francaise". Signaling material and method for protecting subterranean structures. 4,654,639, 3-31-87, Cl. 340-540.000.

Decouttere, Bernard: *See—*
- Adriaensen, Ludo; and Decouttere, Bernard, 4,713,153, Cl 204-144.500.

de Cova, Maritza Oraa, legal representative: *See—*
- Oraa, Espartaco, deceased; and Oraa de Cova, Maritza, legal representative, 4,665,096, Cl 514-557.000.

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- Bose, Debasis; Datta, Amitava; DeCristofaro, Nicholas J.; and Henschel, Claude, 4,650,725, Cl 428-668.000.
- Bose, Debasis; Datta, Amitava; DeCristofaro, Nicholas J.; and Henschel, Claude, 4,701,356, Cl 427-423.000.
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DeCrosta, Mark T.; Jain, Nemichand B.; and Rudnic, Edward M., to E. R. Squibb & Sons, Inc. Controlled release formulation. 4,666,705, 5-19-87, Cl 424-482.000.

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- Fabien, Raymond; and Decrouen, Jean-Michel, 4,692,204, Cl 156-626.000.

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- Keklak, Ronald; Couture, Michael V.; Whitehouse, John C.; and Payne, Marshall W., 4,680,571, Cl 340-52.00R.

Dedieu, Alain; Lockhart, Campbell; and Jolu, Etienne, to Commissariat a l'Energie Atomique. Competitive immunoassay protocal for targets including lipoproteins and alpha-fetoprotein. 4,698,298, 10-6-87, Cl 435-7.000.

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- DeHubry, Frederick; and Knon, Gunter, 4,646,146, Cl 358-108.000.
- Weigert, Dedo, 4,702,577, Cl. 352-191.000.

Dedole, Pascal; Grolet, Pierre; and Laurent, Jean, to Institut Francais du Petrole. Device for generating sound pulses inside a well, by percussion. 4,648,478, 3-10-87, Cl. 181-106.000.

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Dedolph, Richard R., to Gravi-Mechanics Co. Continuous molding machine for producing chains of soil plugs. 4,656,811, 4-14-87, Cl 53-559.000.

Dedoro, Bruno, to Coemar S.p.A. Light projector for movable optical effects. 4,694,381, 9-15-87, Cl. 362-307.000.

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- Brahm, Leroy D.; Brown, Frank C.; Ciarlone, David F.; Dedrich, Mark R.; Hassall, James B., and Salva, Fedor M., 4,699,752, Cl 376-260.000.

Dee Cramer, Inc.: *See—*
- Cole, James, 4,637,300, Cl. 98-60.000.

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Deeg, Rolf: *See—*
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- Cremer, Heinz P.; Wolsiefer, Harald; Hoffmann, Manfred; Deegener, Elmar; and Franzmann, Gunter, 4,713,986, Cl 74-805.00

Deem, Brian C.; and Kemp, Jack A., to Allied Corporation. Fan drive mechanism. 4,638,900, 1-27-87, Cl. 192-85.0CA.

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- Eslinger, Ralph G.; Deem, Brian C.; and Fedor, Gregory R. 4,652,216, Cl. 417-252.000.

Deem, Jake O.; Kassik, Ronald W.; and Metteer, N. Bruce, to Motorola, Inc. Extremely accurate automatic frequency control circuit and method therefor. 4,715,001, 12-22-87, Cl. 364-484.000.

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- Hawkes, Graham S.; and Jeffrey, David C., 4,686,927, Cl 114-312.000.

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- Bryan, Leonard B.; Rouse, Geoffrey O.; and McDonald, Hector 4,703,802, Cl. 166-298.000.

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- Anstey, Henry D.; and Viaud, Jean, 4,633,659, Cl. 56-341.000.
- Anstey, Henry D.; Frimml, Roger W.; and French, Jos 4,697,402, Cl. 53-506.000.
- Barber, Dennis R.; Delfs, Larry M.; and Burk, Ronnie F., 4,713,9 Cl. 60-403.000.
- Bartusek, Robert J.; Steilen, Ronald M.; and Rettig, Vernon E. 4,700,785, Cl. 172-705.000.
- Becker, Manfred; and Ortlepp, Hilmar, 4,664,356, Cl. 251-175.00
- Bedis, Michael, 4,664,405, Cl. 280-490.00A.
- Benning, Friedrich, 4,645,221, Cl. 280-5.00A.
- Brautigam, Peter F., 4,696,508, Cl. 296-65.00R.
- Brizgis, Lawrence J.; Keleher, Daniel B.; and Bandelow, Verne D., 4,713,781, Cl. 364-552.000.
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- Delfs, Larry M., 4,696,367, Cl. 180-306.000.
- Demorest, Donald W., 4,653,623, Cl. 192-56.00R.
- Deutsch, Timothy A., 4,660,359, Cl. 56-13.300.
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- Durchenwald, Larry D., 4,696,387, Cl. 198-394.000.
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- Emmert, Walter, 4,700,537, Cl. 56-314.000.
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- Frerich, Josef, 4,691,503, Cl. 53-587.000.
- Friend, Kenneth D.; and Dharia, Vijay M., 4,634,855, Cl 250-222.100.
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- Hagstrom, Gerald F.; Leemans, Daniel L.; and Turner, Reed J. 4,663,921, Cl. 56-14.600.
- Hauk, Klaus, 4,638,276, Cl. 335-151.000.
- Head, Glenn D., Jr.; and Postal, Jeffrey J., 4,700,641, Cl 111-85.000.
- Herr, Herbert W., 4,660,845, Cl. 280-95.00R.
- Holm, David R.; and Peterson, Rudolph A., Jr., 4,714,227, Cl 248-595.000.

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- Jones, Charles, 4,664,607, Cl. 418-61.00A.
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- Koltookian, Sarkis A., 4,640,401, Cl. 192-85.00R.
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- Koning, Richard W., 4,647,243, Cl. 403-61.000.
- Korrect, Steven G.; and Kaukaskie, Robert L., 4,671,378, Cl. 180-336.000.
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- Kramer, Kenneth D.; and Olson, Rohn L., 4,679,765, Cl. 251-38.000.
- Kryscyk, Robert, 4,681,336, Cl. 280-482.000.
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- Landphair, Donald K., 4,690,260, Cl. 192-71.000.
- Lange, Ronald W.; Reynolds, David F.; Lolley, David R.; and Freeman, Gary L., 4,713,881, Cl. 29-724.000.
- Lemmon, Norman F., 4,664,144, Cl. 137-571.000.
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- Lindstrom, Harold R.; and Haverdink, Virgil D., 4,633,791, Cl. 111-86.000.
- Loney, Allan F.; and Ruhter, Martin L., 4,664,221, Cl. 180-315.000.
- Love, Mahlon L., 4,689,036, Cl. 474-17.000.
- Lundahl, E. Cordell; West, Neil L.; and Witzel, Homer D., 4,679,386, Cl. 56-126.000.
- Luterek, Garry M., 4,708,095, Cl. 123-41.420.
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- Martin, James C.; and Olson, Jay H., 4,664,290, Cl. 221-211.000.
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- Michael, Richard A., 4,658,672, Cl. 74-759.000.
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- Neumeyer, Lowell H., 4,714,033, Cl. 111-85.000.
- Nyquist, Gary A., 4,642,035, Cl. 417-312.000.
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- Oeth, James F.; and Link, Joseph E., 4,674,798, Cl. 297-411.000.
- Oxley, Lonnie R., 4,712,364, Cl. 56-295.000.
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- Phelan, James J., 4,713,665, Cl. 342-104.000.
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- Reilly, Roger D.; Teal, Richard D.; and Hoffman, Robert A., 4,688,819, Cl. 280-461.00A.
- Reilly, Roger D., 4,700,534, Cl. 56-13.300.
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- Schultz, Steven L., 4,664,404, Cl. 280-461.00A.
- Shirley, Ralph E., 4,642,770, Cl. 364-424.000.
- Simon, Merlin E., 4,706,770, Cl. 180-24.020.
- Smith, Joseph J.; and Stillmunkes, Dean J., 4,636,012, Cl. 305-28.000.
- Steilen, Ronald M., 4,715,515, Cl. 222-143.000.
- Stephenson, Dwight B.; and Wendel, Glenn R., 4,648,803, Cl. 417-53.000.
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- Stuhrmann, Heinz; and Kryscyk, Robert, 4,659,102, Cl. 280-481.000.
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Degen, Peter J.; Martin, Jerold; Schriefer, Judy; and Shirley, Brenda, to Pall Corporation. Methods of concentrating ligands and active membranes used therefor. 4,693,985, 9-15-87, Cl. 436-531.000.

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Degen, Wolfgang: *See*—

Ringel, Konrad; and Degen, Wolfgang, 4,651,618, Cl. 86-20.140.

Degener, Ulrich: *See*—

Pongratz, Leonhard; Degener, Ulrich; Spoetzl, Markus; and Kotai, Ferenc, 4,674,396, Cl. 89-47.000.

Degenhardt, Heinz, to Siemens Aktiengesellschaft. Persistent screen for radiation images. 4,675,271, 6-23-87, Cl. 430-139.000.

DeGeorge, Peter J.; Ross, Roger F.; and Sims, Donald E., to International Business Machines Corporation. Automatic format, mode control and code conversion for data processing and printing apparatus. 4,687,353, 8-18-87, Cl. 400-76.000.

Deger, Hans-Matthias: *See*—

Thiem, Joachim; Deger, Hans-Matthias; Kolar, Cenek; and Kre zer, Matthias, 4,659,810, Cl. 536-22.000.

DEGESCH GmbH: *See*—

Sullivan, Jeremiah B.; Shaheen, Donald G.; Stanovick, Richard P. and Dove, Robert L., 4,653,644, Cl. 206-538.000.

Deggendorfer Werft und Eisenbau GmbH: *See*—

Vogl, Rudolf, 4,657,741, Cl. 422-202.000.

Deghenghi, Romano: *See*—

Orsolini, Piero; Mauvernay, Rolland-Yves; and Deghenghi, Ro mano, 4,673,595, Cl. 427-213.320.

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Tellan, Alberto; Desarzens, Pierre; and Deglon, Philippe 4,649,322, Cl. 315-306.000.

Degnan, Edward V. Orthodontic appliance. 4,669,980, 6-2-87, C 433-8.000.

Degnan, Thomas F., Jr., and Chen, Nai Y., to Mobil Oil Corporation Process for hydrogenative reactivation of spent catalysts. 4,649,12 3-10-87, Cl. 502-33.000.

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Chen, Nai Y.; Degnan, Thomas F., Jr.; Leiby, Susan M.; Oleck Stephen M.; and Pelrine, Bruce P., 4,711,710, Cl. 208-111.00

Degnen, Stephen: *See*—

Gibilisco, Kenneth J.; Degnen, Stephen; and Borders, Richar 4,653,668, Cl. 221-298.000.

Degner, Dieter; Gramlich, Walter; Hoffmann, Werner; and Schuster Ludwig, to BASF Aktiengesellschaft. p-Alkoxycyclohexylalkano and p-alkoxycyclohexylalkyl esters and their use as scents. 4,654,16 3-31-87, Cl. 252-522.00R.

Degner, Dieter; Hannebaum, Heinz; and Steiniger, Michael, to BAS Aktiengesellschaft. Preparation of carbamic acid esters. 4,661,21 4-28-87, Cl. 204-59.00R.

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Degoey, Larry W.: *See*—

Betz, Norman L.; and Degoey, Larry W., 4,686,205, Cl. 514-25.00

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Allemand, Didier; Degoix, Bernard; and Dubar, Thierry, 4,671,6 Cl. 350-96.230.

de Goncourt, Louis, to Bertin & Cie. Elastic suspension device havi a great angular rigidity. 4,667,921, 5-26-87, Cl. 248-618.000.

De Gonet, Jean. Bookbinding. 4,703,951, 11-3-87, Cl. 281-27.000.

DeGood, David A. Moveable stair apparatus. 4,642,953, 2-17-87, C 52-183.000.

Degouy, Jean-Luc: *See*—

Allezard, Roland; and Degouy, Jean-Luc, 4,656,480, C 342-151.000.

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de Graaf, Cornelis C., to Ericsson Paging Systems B.V. Paging recei and transmitting device adapted to said receiver. 4,688,034, 8-18-8 Cl. 340-825.480.

De Graaff, Hendrik C.; and Voncken, Wilhelmus G., to U.S. Phil Corporation. Semiconductor protection device having a bipo transistor and an auxiliary field effect transistor. 4,697,199, 9-29-8 Cl. 357-23.130.

DeGraan, Henry R. Weatherproofing strip. 4,655,009, 4-7-87, C 52-58.000.

De Graff, Richard R., to UOP Inc. Process for alkylation of hydroca bons. 4,695,665, 9-22-87, Cl. 585-450.000.

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Degrande, Gilbert: *See*—

Nicolas, Jacques; and Degrande, Gilbert, 4,686,844, Cl. 72-13.00

Degrauwe, Dirk M.; and Geleyns, Eduard A., to Agfa-Gevaert N.V. Method and apparatus for curtain coating. 4,647,482, 3-3-87, C 427-420.000.

Degrauwe, Marc; and Vittoz, Eric A., to Centre Electronique Horlog S.A. Reference voltage source. 4,672,304, 6-9-87, Cl. 323-314.00

DeGrazia, Torey W., Jr. Interlocked remote oil filter and dra 4,676,206, 6-30-87, Cl. 123-196.00S.

DeGrazia, Torey W., Jr. Fuel injection apparatus for automobi 4,694,804, 9-22-87, Cl. 123-462.000.

DeGree, David C.; Bergquist, Carl R.; Humphrey, Dallas R.; and We Roger A., to Bergquist Company, The. Method of making a mou ing base pad for semiconductor devices. 4,666,545, 5-19-87, C 156-252.000.

DeGregoria, Anthony J.: *See*—

Dean, Anthony M.; DeGregoria, Anthony J.; Hardy, James E Hurst, Boyd E.; and Lyon, Richard K., 4,636,370, C 423-235.000.

Dean, Anthony M.; DeGregoria, Anthony J.; Hardy, James E.; an Lyon, Richard K., 4,682,468, Cl. 60-39.020.

Degremont: *See*—

Burriat, Jean; Causse, Bernard; and Rovel, Jean-Marie, 4,659,47 Cl. 210-675.000.

Fayoux, Christian; and Haubry, Andre, 4,676,902, Cl. 210-350.00

Louboutin, Robert; Savall, Vincent; and Vion, Patrick, 4,633,9 Cl. 137-888.000.

e Groot, Jacob; and Haus, Thomas A. J., to U.S. Philips Corporation. Core containing amorphous ferromagnetic strip material. 4,635,018, 1-6-87, Cl. 336-178.000.

DeGroot, Peter F., to Bud Antle, Inc. Tape dispenser. 4,651,910, 3-24-87, Cl. 225-1.000.

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Deguchi, Hiroyuki: *See*—

Kawai, Katsunori; Deguchi, Hiroyuki; Kobayashi, Hisao; and Sugizono, Shuichi, 4,669,272, Cl. 62-228.300.

Kawai, Katsunori; Kobayashi, Hisao; Deguchi, Hiroyuki; and Sugizono, Shuichi, 4,709,555, Cl. 62-228.300.

Kobayashi, Hisao; Kawai, Katsunori; and Deguchi, Hiroyuki, 4,691,526, Cl. 62-217.000.

Deguchi, Kimiyoshi: *See*—

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Deguchi, Naoyasu; Kojima, Tetsuro; Ohno, Shigeru; Nakamura, Koki; and Miyazaki, Hideo, to Fuji Photo Film Co., Ltd. Silver halide photographic materials containing 1,3,4-thiadiazole derivatives having a polar substituent. 4,696,894, 9-29-87, Cl. 430-551.000.

Deguchi, Takahiko: *See*—

Nozawa, Yoshio; Ochiai, Izumi; Kitayama, Yukio; Miyagi, Masahiro; Uehara, Katsuharu; Deguchi, Takahiko; Morita, Keikichi; Arai, Katsuo; and Nakayama, Tamotsu, 4,698,904, Cl. 29-726.000.

Deguchi, Takashi; Kadono, Masahiro; and Naka, Shinji, to Matsushita Electric Industrial Co., Ltd. Inverter-drive controlling apparatus. 4,636,928, 1-13-87, Cl. 363-41.000.

Deguchi, Takashi: *See*—

Kuriyama, Keiichi; Miura, Kenichiro; and Deguchi, Takashi, 4,709,292, Cl. 361-22.000.

Yamato, Masayuki; Kase, Hiroshi; Kawamoto, Isao; Kasai, Masaji; Shirahata, Kunikatsu; Deguchi, Takashi; Shuto, Katsuichi; Karasawa, Akira; Okachi, Ryo; and Nakayama, Kiyoshi, 4,683,220, Cl. 514-7.000.

Deguchi, Takayuki: *See*—

Fujii, Tsuneo; Inakai, Hiroshi; Deguchi, Takayuki; Amano, Toshihiko; Kakuchi, Masami; Asakawa, Hiroshi; and Kogure, Osamu, 4,686,168, Cl. 430-326.000.

Satokawa, Takaomi; Fujii, Tsuneo; and Deguchi, Takayuki, 4,656,108, Cl. 430-18.000.

Deguchi, Takenori; Uchida, Kazuko; Ikita, Takao; Maruhashi, Shigeaki; Hoshino, Kazuo; and Oosaki, Kenji, to Nisshin Steel Co., Ltd. Surface treatment of high-nickel/iron alloy steel plate for LNG or LPG tanks. 4,696,724, 9-29-87, Cl. 204-27.000.

Deguchi, Toru: *See*—

Moriya, Yasuo; Suzuki, Nobuyoshi; and Deguchi, Toru, 4,665,131, Cl. 525-277.000.

Deguchi, Toshihisa: *See*—

Fujii, Yoshikazu; Deguchi, Toshihisa; Inui, Tetsuya; and Yamaoka, Hideyoshi, 4,660,190, Cl. 369-44.000.

Fujii, Yoshikazu; Inui, Tetsuya; Deguchi, Toshihisa; and Okuda, Tohru, 4,667,315, Cl. 369-44.000.

Fujii, Yosikazu; Inui, Tetsuya; Deguchi, Toshihisa; and Yamaoka, Hideyoshi, 4,658,390, Cl. 369-45.000.

Ohta, Kenji; Deguchi, Toshihisa; and Takahashi, Akira, 4,677,601, Cl. 369-13.000.

eguchi, Yukichi; and Kobayashi, Hiroaki, to Toray Industries, Inc. Capacitor. 4,672,506, 6-9-87, Cl. 361-323.000.

eguchi, Yutaka; and Tsuchida, Yasuyuki, to Sanyo Electric Co., Ltd. Latent image reproducing electrophotographic copying machine. 4,640,601, 2-3-87, Cl. 355-3.00R.

eguchi, Yutaka; and Tsuchida, Yasuyuki, to Sanyo Electric Co., Ltd. Printer head. 4,653,895, 3-31-87, Cl. 355-1.000.

e Guelis, Hubert V.; and Doute, Pascal, to Societe Nationale Industrielle et Aerospatiale. System for putting two contiguous enclosures into individual communication with the outside. 4,696,496, 9-29-87, Cl. 285-137.100.

eguevara, Orlando. Article carrier. 4,676,414, 6-30-87, Cl. 224-42.03R.

egain, Alain, to Societe Amenagement Urbain et Rural S.A. Installation and apparatus for treating a liquid, in particular for demineralizing water passing through a bed of active granular material which is compacted in a high position and which is periodically regenerated by a reverse flow. 4,708,794, 11-24-87, Cl. 210-189.000.

egussa Aktiengesellschaft: *See*—

Amann, Herbert; Morlock, Gerhard; and Schola, Egbert, 4,672,083, Cl. 524-86.000.

Andrade, Juan; Prescher, Guenter; and Samson, Marc, 4,675,451, Cl. 568-486.000.

Andrade, Juan; and Prescher, Gunter, 4,680,420, Cl. 549-476.000.

Andrade, Juan; Prescher, Gunter; and Kohler, Klaus, 4,691,062, Cl. 568-495.000.

Andrade, Juan G.; Prescher, Gunter; and Nagel, Ulrich, 4,668,795, Cl. 548-412.000.

Beck, Wolfgang; and Nagel, Ulrich, 4,634,775, Cl. 548-402.000.

Beyer, Hans-Hermann; Diehl, Walter; Eckert, Karlheinz; Eiermann, Kurt; and Ringelstein, Hans-Martin, 4,634,383, Cl. 433-226.000.

Bittner, Friedrich; Hinrichs, Walter; Hovestadt, Herbert; Lange, Ludwig; and Splett, Erich, 4,640,832, Cl. 423-562.000.

Donkowski, Manfred, 4,650,612, Cl. 260-502.00R.

Deschler, Ulrich; Panster, Peter; Kleinschmit, Peter; Wolff, Siegfried; and Tan, Ewe-Hong, 4,645,850, Cl. 556-431.000.

Deschler, Ulrich; Kleinschmit, Peter; and Michel, Rudolf, 4,697,009, Cl. 540-487.000.

Deschler, Ulrich; Panster, Peter; Kleinschmit, Peter; Wolff, Siegfried; and Tan, Ewe-Hong, 4,704,428, Cl. 524-535.000.

Deschler, Ulrich; Grund, Andreas; and Prescher, Guenter, 4,705,868, Cl. 549-215.000.

Diehl, Manfred; and Bergmann, Roland, 4,668,420, Cl. 252-135.000.

Diehl, Manfred; Bergmann, Roland; Stadtmuller, Gunter; and Diener, Sigrid, 4,671,887, Cl. 252-174.250.

Drauz, Karlheinz; and Kleemann, Axel, 4,686,010, Cl. 203-63.000.

Drauz, Karlheinz; Kleemann, Axel; and Wolf-Heuss, Elisabeth, 4,716,237, Cl. 549-72.000.

Effenberger, Franz; Kuhlwein, Jurgen; and Drauz, Karlheinz, 4,661,626, Cl. 560-343.000.

Eiermann, Kurt; and Ehinger, Karl, 4,713,729, Cl. 361-386.000.

Engel, Jurgen; Jakovlev, Vladimir; Nickel, Bernd; Thiemer, Klaus; and Scheffler, Gerhard, 4,643,995, Cl. 514-210.000.

Engel, Richard; and Voll, Manfred, 4,676,200, Cl. 122-39.000.

Fischer, Robert; and de Ahna, Dieter, 4,696,700, Cl. 106-291.000.

Ginter, Herbert; Klingel, Reinhard; and Manner, Reinhard, 4,680,043, Cl. 65-2.000.

Giray, Guenes; Huthmacher, Klaus; Kleemann, Axel; and Lied, Thomas, 4,705,867, Cl. 549-39.000.

Groll, Werner; Schock, Gernot; Hathaway, Doris; and Wagner, Rudolf, 4,681,735, Cl. 420-464.000.

Groll, Werner; Rothaut, Josef; Klaus, Angela; and Steinke, Rudi, 4,689,197, Cl. 419-23.000.

Hettche, Helmut; Emig, Peter; and Engel, Jurgen, 4,673,666, Cl. 514-23.000.

Hoffmann, Gerhard; Bauer, Rudolf; Heilmann, Paul; and Schumann, Erwin, 4,682,011, Cl. 219-390.000.

Holle, Hans-Joachim; and Morlock, Gerhard, 4,677,173, Cl. 526-193.000.

Jansen, Martin; and Standke, Burkhard, 4,695,353, Cl. 204-96.000.

Kaiser, Hasso, 4,710,224, Cl. 106-1.230.

Karl, Alfons; Walter, Erwin; Kleinschmit, Peter; Gottschlich, Hermann; Kutz, Roland; and Koth, Detley, 4,642,304, Cl. 502-427.000.

Kerner, Dieter; Kleinschmit, Peter; Parkhouse, Alan; and Wolff, Siegfried, 4,704,414, Cl. 523-213.000.

Kleemann, Axel; Klenk, Herbert; and Schulz, Wolfgang, 4,716,247, Cl. 564-18.000.

Kuhn, Werner; and Zilske, Wolfgang, 4,634,505, Cl. 204-44.300.

Kuhn, Werner; and Zilske, Wolfgang, 4,659,438, Cl. 204-34.000.

Muller, Karl H.; and Barthel, Walter, 4,710,229, Cl. 106-281.00R.

Muller, Karl-Hans; Neumuller, Matthias; and Turk, Gunther, 4,664,907, Cl. 424-52.000.

Muller, Karl-Hans; Neumuller, Matthias; and Turk, Gunther, 4,704,270, Cl. 424-49.000.

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Nees, Friedbert; Werle, Peter; Reissmann, Gunther; and Merk, Wolfgang, 4,667,044, Cl. 549-539.000.

Panster, Peter; and Kleinschmit, Peter, 4,645,847, Cl. 556-9.000.

Panster, Peter; and Kleinschmit, Peter, 4,645,848, Cl. 556-9.000.

Panster, Peter; and Kleinschmit, Peter, 4,647,644, Cl. 528-30.000.

Panster, Peter; Englisch, Marlies; and Kleinschmit, Peter, 4,647,679, Cl. 556-9.000.

Panster, Peter; and Kleinschmit, Peter, 4,647,682, Cl. 556-431.000.

Prescher, Guenter; Grund, Andreas; Petsch, Heinrich; and Boehme, Georg, 4,642,387, Cl. 568-446.000.

Renner, Hermann; Kleiss, Karlheinz; and Schlodder, Rainer, 4,687,514, Cl. 75-109.000.

Rothbuhr, Lothar; and Kuhner, Gerhard, 4,636,375, Cl. 423-450.000.

Russe, Meinhard W.; Bolze, Rudolf; and Koch, Friedhelm, 4,696,914, Cl. 514-19.000.

Schmidt, Sabine; Kleinschmit, Peter; and Schwarz, Rudolf, 4,670,101, Cl. 162-152.000.

Schumann, Erwin, 4,636,089, Cl. 374-45.000.

Schwarze, Werner; Wolff, Siegfried; Remmel, Hans; and Lambertz, Horst, 4,673,741, Cl. 544-209.000.

Strack, Hans; and Kleinschmit, Peter, 4,668,648, Cl. 502-64.000.

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Tanner, Herbert; Bertram, Heidrun-Leonore; Richter, Reinhard; and Spindler, Manfred, 4,705,689, Cl. 426-2.000.

Tibes, Ulrich; Weischer, Carl H.; Hettche, Helmut; Breuel, Hans-Peter; and Gunesch, Dietmar, 4,668,684, Cl. 514-277.000.

Voll, Manfred; and Engel, Richard, 4,647,444, Cl. 423-460.000.

Voll, Manfred, 4,698,913, Cl. 34-10.000.

von Angerer, Erwin; and Schonenberger, Helmut, 4,661,511, Cl. 514-415.000.

Werle, Peter; Focke, Holger; and Boes, Alwin, 4,683,307, Cl. 544-198.000.

Wolff, Siegfried; Schwarze, Werner; and Grewatta, Heinz, 4,636,550, Cl. 524-552.000.

Degussa Electronics Inc.: *See*—

Dumesnil, Maurice E.; Starz, Karl; and Finkelshteyn, Leonid, 4,699,888, Cl. 501-19.000.

Hunt, Charles D'A., 4,681,787, Cl. 428-577.000.

Lowe, James H. C., 4,641,704, Cl. 1[illegible]-474.000.

Degussa Electronics Inc., Materials Division: *See*—

Hunt, Charles d'A., deceased, 4,690,875, Cl. 428-577.000.

De Guzman, Luis: *See*—

Tenenbaum, Marcos; De Guzman, Luis; and Tenenbaum, Daniel M., 4,640,102, Cl. 62-294.000.

Deha Baubedarf GmbH & Co. KG: *See—*
  Pape, Harald, 4,708,612, Cl. 425-117.000.
DeHaan, Abel; Jones, W. Kinzy; and Krug, Richard D., to Cordis Corporation. Etched grooved electrode for pacing lead and method for making same. 4,649,937, 3-17-87, Cl. 128-784.000.
De Haan, Frans W.; Wyma, Jan; and Zwanenburg, Rob, to Fokker B.V. System for retaining or releasing spacecraft solar panels. 4,641,798, 2-10-87, Cl. 244-173.000.
de Haan, Freidrich J., administrator: *See—*
  Haisma, Jan; van der Werf, Pieter; Robertson, John M., deceased, and de Haan, Freidrich J., administrator, 4,679,892, Cl. 350-96.120.
de Haan, Gerard, to U.S. Philips Corporation. Color television transmission or information storage system, respectively with time-division multiplex coding and data generator and receiver suitable therefor. 4,698,665, 10-6-87, Cl. 358-12.000.
De Haan, Pieter; Lerk, Coenraad F.; and Schoonen, Adelbert J. M., to Rijksuniversiteit Groningen. Devices for the controlled release of active substances, as well as process for the preparation thereof. 4,708,874, 11-24-87, Cl. 424-470.000.
DeHaan, Robert; and Raudabaugh, James H., to Amana Refrigeration, Inc. Apparatus and method for removing recuperative condensate. 4,653,466, 3-31-87, Cl. 126-110.00R.
de Haas, Maarten A.: *See—*
  Hoogendoorn, Thomas M.; de Haas, Maarten A.; and Nijman, Johan M., 4,698,103, Cl. 148-12.00F.
DeHainaut, Christopher R.: *See—*
  Fender, Janet S.; Cusumano, Salvatore J.; Butts, Robert R.; and DeHainaut, Christopher R., 4,639,586, Cl. 250-201.000.
de Hair, Johannes T. W.; van Kemenade, Johannes T. C.; and Berns, Everhardus G., to U.S. Philips Corporation. Low-pressure mercury vapor discharge lamp. 4,644,223, 2-17-87, Cl. 313-487.000.
DeHaitre, Lon, to Abbott-Interfast Corporation. DIP switch assembly having side extending leads. 4,639,566, 1-27-87, Cl. 200-158.000.
DeHaitre, Lon, to Abbott Interfast Corp. Reusable syringes. 4,701,165, 10-20-87, Cl. 604-228.000.
Dehan, Louis: *See—*
  Ouhadi, Trazollah; Dehan, Louis; and Fellen, Lucie, 4,647,393, Cl. 252-102.000.
  Ouhadi, Trazollah; Broze, Guy; Dehan, Louis; and van de Gaer, Daniel, 4,661,280, Cl. 252-99.000.
  Ouhadi, Trazollah; and Dehan, Louis, 4,690,771, Cl. 252-102.000.
DeHart, Arnold O.; and Symons, James D., to General Motors Corporation. Combined vacuum pump, bearing and seal assembly. 4,645,414, 2-24-87, Cl. 415-83.000.
DeHart, Arnold O.: *See—*
  Mair, Alexander C.; Allgaier, Leonhard; and DeHart, Arnold O., 4,693,642, Cl. 408-59.000.
DeHart, Dwain L., to Aluminum Company of America. Low drag conductor. 4,687,884, 8-18-87, Cl. 174-130.000.
Dehart, John H.: *See—*
  Bevilaqua, Paul M.; and Dehart, John H., 4,645,140, Cl. 244-12.100.
DeHart, Marvin L., and Johnson, Dale B., to Philips Industries Inc. Ceiling air diffuser. 4,714,009, 12-22-87, Cl. 98-40.130.
DeHaven, Vernet F.; and Warin, Francis J., to ARES, Inc. Shell feeding apparatus for guns. 4,640,182, 2-3-87, Cl. 89-47.000.
DeHaven, Vernet F.; and Warin, Francis J., to ARES, Inc. Shell magazine for tanks. 4,671,164, 6-9-87, Cl. 89-34.000.
Dehem, Paul R.: *See—*
  Stelma, Michael J.; and Dehem, Paul R., 4,681,012, Cl. 84-422.00S.
Dehennau, Claude; and Kerger, Marc, to Solvay & Cie (Societe Anonyme). Feed block for a flat coextrusion die. 4,652,225, 3-24-87, Cl. 425-133.100.
Dehennau, Claude; Kerger, Marc; and Dubuisson, Leon, to Solvay & Cie (Societe Anonyme). Device for the coextrusion of thermoplastics. 4,657,497, 4-14-87, Cl. 425-133.100.
Dehennau, Claude; and Dubois, Paul, to Solvay & Cie (Societe Anonyme). Adjustable feed block for coextrusion die. 4,690,628, 9-1-87, Cl. 425-133.500.
Dehennau, Claude; and Vandendael, Yannick, to Solvay & Cie. (Societe Anonyme). Rigid and semirigid thermoplastic structures with multiple coextruded polymeric layers incorporating an inner vinylidene chloride copolymer layer and use of these structures for the manufacture of packages. 4,695,506, 9-22-87, Cl. 428-212.000.
Dehennau, Claude: *See—*
  Decroly, Pierre; and Dehennau, Claude, 4,659,625, Cl. 428-412.000.
de Hertel Eastcott, Peter, to Canadian General Electric Company Limited. Gear protection system for grinding mills. 4,635,769, 1-13-87, Cl. 192-0.034.
Dehlinger, James R.: *See—*
  Palentyn, Gunther H.; Dehlinger, James R.; and Rigsby, Donald R., 4,636,608, Cl. 219-121.0LN.
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Surveillance camera device with automatically controlled shutte
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  Parkinson, C. Harry, 4,663,967, Cl. 73-147.000.
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  Kawamura, Naoto; and Dei, Katsuhito, 4,661,077, Cl. 358-75.00
Deiana, Salvatore. Self-adjusting breakwater for artificial harbors
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  Wetzel, Charles M.; Moscony, John J.; Michelutti, Thomas J.; an
  Deibler, Dean T., 4,669,871, Cl. 355-91.000.
Deibler, Melvin E.: *See—*
  Loce, Robert P.; and Deibler, Melvin E., 4,653,901, Cl. 355-7.00
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  Bawa, Rajan; and Deichert, William G., 4,713,244, Cl. 424-429.00
  Cook, William H.; Deichert, William G.; Wrue, Richard J.; an
  Westfall, Norman R., 4,701,288, Cl. 264-1.400.
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  Scott-Kestin, Colin B.; Pike, Roger B.; Watkins, Roger D.; Gille
  pie, Arthur B.; and Deighton, Michael O., 4,679,430, Cl. 7
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Deihl, Charles J.: *See—*
  Bodine, Jane A.; Deihl, Charles J.; Deihl, Henry A.; Gramze, Pa
  E.; and Kiel, Monty, 4,666,157, Cl. 273-32.00H.
Deihl, Henry A.: *See—*
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  Durrant, John T.; and Deily, Greg K., 4,699,219, Cl. 172-42.00
Deimen, James M.: *See—*
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Cl. 377-10.000.
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  Deinekin, Viktor V., 4,647,856, Cl. 324-239.000.
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pany. Apparatus and method for packaging compressible pouche
4,660,352, 4-28-87, Cl. 53-438.000.
Deines, Donald E.: *See—*
  Deines, Alvin J.; and Deines, Donald E., 4,660,352, Cl. 53-438.00
Deinhardt, Guenther: *See—*
  Meusel, Otto; Seidel, Siegfried; Muench, Heinz-Dieter; and Dei
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Deininger, Anton: *See—*
  Aschberger, Matthias; Farber, Karlheinz; and Deininger, Anto
  4,646,797, Cl. 141-375.000.
  Aschberger, Matthias; Farber, Karlheinz; and Deininger, Anto
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  Aschberger, Matthias; Farber, Karlheinz; and Deininger, Anto
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  inger, Anton, 4,665,809, Cl. 99-323.100.
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- Bauduin, Gerard; Boutevin, Bernard; Deiss, Willy-Jean; and Pietrasanta, Yves, 4,638,018, Cl. 522-103.000.

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- Dreher, Anton; and Gramer, Josef, 4,660,358, Cl. 53-589.000.
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- Brown, Craig J.; and Dejak, Michael J., 4,666,683, Cl. 423-24.000.

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- McCracken, Alan; Dominiani, Frank J., Jr.; and DeJarnette, Edward A., Jr., 4,697,739, Cl. 239-127.000.

Dejima, Fusao: *See*—
- Nakagawa, Fumio; Nakamura, Kazuyoshi; Shibao, Hitoshi; Yoshimura, Hiroshi; Taki, Koichi; Inoue, Makoto; Hayashi, Eiji; Dejima, Fusao; and Kohara, Yuritoshi, 4,690,638, Cl. 432-81.000.

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- Karanewsky, Donald S.; and Dejneka, Tamara, 4,670,422, Cl. 514-63.000.
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- Bischoff, Erwin; Muller, Hartwig; Salcher, Olga; Berschauer, Friedrich; Scheer, Martin; de Jong, Anno; and Frobel, Klaus, 4,670,260, Cl. 424-121.000.
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- Dykstra, Ronald A.; Hawks, Mark W.; and De Jong, Jerry M., 4,686,609, Cl. 362-61.000.

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- Altenberg, Milton J.; and deJong, Johannes, 4,701,477, Cl. 521-167.000.

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- Dieleman, Pieter J.; Goedbloed, Willem; De Jong, Roelof P.; and Oosterwijk, Theodorus M., 4,706,051, Cl. 333-212.000.

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- Niske, Gerd E.; de Jongh, Albertus J. B.; and Kruger, Theunis J., 4,651,895, Cl. 221-63.000.

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de Jongh, Rudolph O.: *See*—
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- Santucci, Donald; and Denemark, Phillip W., 4,635,886, Cl. 248-73.000.

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- Armond, Paul A.; and Orr, Peter M., 4,677,246, Cl. 800-1.000.
- Lindsey, Marvin F., 4,654,466, Cl. 800-1.000.

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DeKezel, James A.; and Lerschen, James R. Buoyant water fowl decoy and method for making same. 4,691,463, 9-8-87, Cl. 43-3.000.

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Dekker, Pieter: *See*—
- Bril, Thijs W.; Dekker, Pieter; Postma, Lambertus; and Witmer, Cornelis H. M., 4,651,249, Cl. 360-119.000.

Dekkers, Nicolaas H.: *See*—
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deKok, Peter T. Removable mount for cutting means. 4,641,628, 2-10-87, Cl. 125-15.000.

de Koning, Adrianus J.; Loontjens, Jacobus A.; Mostert, Hubertus A. M.; and Omloo, Hubertus A. A., to DSM Resins B.V. Compositions containing maleimide-amide compounds as well as the preparation and application thereof. 4,684,706, 8-4-87, Cl. 526-262.000.

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- Momata, Kazuhiro; Dekura, Yoshinori; Honzawa, Tadashi; and Matsushige, Hiromi, 4,695,909, Cl. 350-122.000.

Del-Air Systems Ltd.: *See*—
- Van Ee, Dirk, 4,646,817, Cl. 165-76.000.

Dei Laboratories, Inc.: *See*—
- Ferrari, Luigi M., 4,644,966, Cl. 132-73.000.

Del Manufacturing: *See*—
- Koroscil, Anthony; Smithey, Walter A.; and Delgado, Paul A., 4,682,544, Cl. 102-336.000.

Del Mar Avionics: *See*—
- Shu, Stephen K., 4,635,927, Cl. 272-96.000.

Del Monte Corporation: *See*—
- Liu, Yuan K., 4,710,388, Cl. 426-102.000.
- Ross, Edward E., 4,653,393, Cl. 99-542.000.

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- Batt, Andre; and Delabie, Jacques J. A., 4,640,980, Cl. 174-36.000.

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- Dumontet, Max; and Pelletier, Yves, 4,668,031, Cl. 339-9.00E.
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  Buisson, Claude; and Delafoy, Jean-Alain, 4,708,237, Cl. 198-726.000.
Delage, Daniel: *See*—
  Boen, Roger; Jouan, Antoine; Delage, Daniel; and Reboux, Jean, 4,660,212, Cl. 373-156.000.
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Delahoy, Alan E.: *See*—
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  Van Dine, John E.; Weakliem, Herbert A.; Kiss, Zoltan; and Delahoy, Alan E., 4,675,467, Cl. 136-249.000.
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Delaite, Richard: *See*—
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  Bernard, Gilles; and Delalande, Francois, 4,715,118, Cl. 29-856.000.
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  Adrian, Guy P., 4,667,056, Cl. 562-492.000.
  Benedetti, Margherita S., 4,699,782, Cl. 424-81.000.
  Imbert, Thierry F.; Dorme, Nicole A. M.; and Langlois, Michel, 4,657,911, Cl. 514-272.000.
  Platel, Alain Y.; Bourgery, Guy R.; and Lacour, Alain, deceased, 4,639,452, Cl. 514-252.000.
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Delaney, Mark S.: *See*—
  Coleman, William M., III; Schmidt, Gregory F.; Campbell, Richard E., Jr.; and Delaney, Mark S., 4,659,685, Cl. 502-113.000.
Delaney, Michael J.: *See*—
  Bongard, James A.; Delaney, Michael J.; Duncan, Eugene F.; Fredricks, Cheryl A.; Groves, John P.; Kalista, Daniel J.; Klingseisen, Paul; Lazzaro, Joseph; and Nadolski, Gregory L., 4,678,867, Cl. 174-135.000.
  Stokes, Robert B.; Yen, Kuo-Hsiung; Lau, Kei-Fung; Kagiwada, Reynold S.; and Delaney, Michael J., 4,707,631, Cl. 310-313.00A.
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Delaney, Norma G.: *See*—
  Godfrey, Jollie D., Jr.; Gordon, Eric M.; and Delaney, Norma G., 4,636,560, Cl. 530-331.000.
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Delaney, Sean: *See*—
  Clifton, Kevin; and Delaney, Sean, 4,691,531, Cl. 62-263.000.
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  Mahato, Basanta K.; and Delaney, William C., 4,656,706, Cl. 29-2.000.
De Lange, Harrie R.: *See*—
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  Chapuy, Claude; and Delapierre, Gilles, 4,667,391, Cl. 29-576.00T.
  Danel, Jean-Sebastien; Delapierre, Gilles; and Michel, France, 4,653,326, Cl. 73-517.00R.
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DeLarge, Richard S. Plasma desmear/etchback system and method use. 4,676,865, 6-30-87, Cl. 156-643.000.
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de Larosiere, Pierre J. Container reinforcement. 4,634,028, 1-6-87, C 222-464.000.
de Larosiere, Pierre J. Stack mold. 4,706,924, 11-17-87, Cl. 249-161.00
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  McCoy, Bing, 4,688,460, Cl. 84-1.160.
DeLaski, Donald: *See*—
  McCoy, Bing, 4,690,026, Cl. 84-1.190.
de Lassat de Pressigny, Yann; and Schneider, Michel, to Institut Recherches de la Siderurgie Francaise. Device for injecting pulver lent material, such as coal, in a blast furnace. 4,700,930, 10-20-87, C 266-267.000.
DeLassus, Phillip; and Raich, William J., to Dow Chemical Compan The. Method for the preparation of a vinylidene chloride interpol mer film. 4,694,068, 9-15-87, Cl. 528-502.000.
de Lathouder, Hans C., to Stamicarbon B.V. Process for prepari ammonia. 4,699,772, 10-13-87, Cl. 423-359.000.
Delatorre, Leroy C. Capacitance transducer. 4,691,574, 9-8-87, C 73-708.000.
Delatte, Daniel, to L'Air Liquide, Societe Anonyme pour l'Etude l'Exploitation des Procedes Georges Claude. Device for storing tube in a cryogenic container. 4,665,713, 5-19-87, Cl. 62-382.000.
Delattre, Luc: *See*—
  Badin, Suzan; Moulin, Jean-Francois; Delattre, Luc; and Rene Patrice, 4,640,055, Cl. 51-101.0LG.
Delattre, Robert: *See*—
  Aspirot, Jacques; Biache, Gerard; Delattre, Robert; and Ferra Pierre, 4,668,511, Cl. 424-93.000.
Delaunay, Marc; Gualandris, Rene; Geller, Richard; Jacquot, Clau Ludwig, Paul; Mathonnet, Jean-Marc; Rocco, Jean-Claude; Serme Pierre; Zadworny, Francois; and Bourg, Francois, to Commissaria l'Energie Atomique. Electron cyclotron resonance ion sour 4,638,216, 1-20-87, Cl. 315-111.810.
Delavan Corporation: *See*—
  Soth, J. Michael; and Klemm, James R., 4,659,014, Cl. 239-102.20
Delaware Capital Formation, Inc.: *See*—
  Tomczak, Roman M.; Evans, Alfred J.; Chen, Grant K. R.; a Brinson, Edward P., 4,683,615, Cl. 17-1.00R.
Delaware Halliburton Company: *See*—
  Minear, John W.; and McNiece, Raymond J., 4,673,033, C 166-55.100.
Delay, Francois; and Joyeux, Michel, to Firmenich SA. Process for th preparation of isoxazoles. 4,670,109, 6-2-87, Cl. 204-59.00R.
Delbar, Jack: *See*—
  Girardon, Noel; and Delbar, Jack, 4,663,926, Cl. 57-6.000.
Delbecq, Gerard; Markey, Jean-Pierre; Marcq, Bernard; and Val, Ren to Usinor Aciers. Machine for removing burrs from slabs. 4,672,72 6-16-87, Cl. 29-33.00A.
Del Bello, Athos; and Kilcher, Beat, to AG fur industrielle Elektron AGIE Losone b. Locarno. Method for adaptive control of operatin parameters during spark-erosive cutting and spark-erosive cuttin plant for the same. 4,709,131, 11-24-87, Cl. 219-69.00M.
Delbosse, Andre: *See*—
  Pin, Bernard; Delbosse, Andre; and Dubrecucq, Ivan, 4,714,976, C 361-114.000.
Delbouille, Andre; and Derroitte, Jean-Louis, to Solvay & Cie (Socie Anonyme). Polymerization catalysts and methods of preparatio thereof. 4,649,182, 3-10-87, Cl. 526-125.000.
del Castillo, Gilbert. Amphibious discoidal aircraft. 4,674,708, 6-23-8 Cl. 244-12.200.
Delchev, Nedelko E.; and Tzonev, Ognian N. Hot gas source and fa therefor. 4,698,965, 10-13-87, Cl. 60-227.000.
Delco Electronics Corporation: *See*—
  Young, William M.; and Wolfe, Mark E., 4,710,395, Cl. 427-6.00
Delco Products Overseas Corporation: *See*—
  McKernon, David A.; and North, Lawrence A., 4,706,512, C 74-405.000.
Del Corso, Gregory J.; Carnes, Robert E.; and Esposito, David Carpenter Technology Corporation. Process and apparatus to simu taneously consolidate and reduce metal powders. 4,693,863, 9-15-8 Cl. 419-13.000.
Delcour, Kees, to Dow Chemical Company, The. Nitrogen-containi water-soluble polymer flocculants. 4,647,379, 3-3-87, Cl. 210-736.00
Delcroix, Jean L.: *See*—
  Ebert, Charles; Delcroix, Jean L.; Majchrzak, Roland; and Viert Lothar, 4,702,513, Cl. 296-97.00H.
Delebarre, Arnaud, to Charbonnages de France. Apparatus for inject ing fluidization gas. 4,648,330, 3-10-87, Cl. 110-263.000.
Delecroix, Michel: *See*—
  Pieronne, Alain; Soots, Georges; Logier, Regis; and Delecroi Michel, 4,662,355, Cl. 128-1.00D.
de Leeuw, Dagobert M.; and Khurgin, Jacob, to North America Philips Corporation. Image recording and readout device based o light-stimulable phosphors. 4,661,704, 4-28-87, Cl. 250-327.200.

de Leeuwe, Marc, to Union Carbide Corporation. Liquid chemical dispensing apparatus. 4,646,784, 3-3-87, Cl. 137-565.000.

Delehouzee, Leon; and Knockaert, Georges, to Trefilarbed Welding S.A. Package for a fragile filled strand. 4,651,948, 3-24-87, Cl. 242-129.000.

DeLeo, Richard V.: *See—*
  Hagen, Floyd W.; and DeLeo, Richard V., 4,645,517, Cl. 55-182.000.

Deleo, Salvatore J.: *See—*
  Saponto, Michael J.; Deleo, Salvatore J.; Lewis, Paul A.; Curtis, Albert E., III; D'Arienzo, Joseph; and Roller, David P., Jr., 4,663,727, Cl. 364-551.000.

DeLeon, Alberto: *See—*
  Snider, Scott C.; and DeLeon, Alberto, 4,711,912, Cl. 521-125.000.

de Leon, Oscar C., Jr.; and Kromer, Philip F., III, to Racal Data Communications Inc. Noninterruptive noise measurement. 4,658,210, 4-14-87, Cl. 324-77.00R.

de l'Eprevier, Alain G.; and Garnier, Albert, to Prodaits Cellulosiques Isolants-Procelis. Insulating piece in different shapes, formed by stacked layers of fibers capable of withstanding high temperatures, and manufacturing process. 4,677,018, 6-30-87, Cl. 428-218.000.

de l'Eprevier, Alain G.: *See—*
  Garnier, Albert; and de l'Eprevier, Alain G., 4,671,911, Cl. 264-60.000.

Delesalle, Jacques, to Societe Alsacienne de Constructions Mecaniques de Mulhouse. Process for the starting and low-load running of a diesel engine and a diesel engine putting this process into practice. 4,641,613, 2-10-87, Cl. 123-179.00H.

Delevallee, Francoise: *See—*
  Clemence, Francois; Le Martret, Odile; and Delevallee, Francoise, 4,636,512, Cl. 514-312.000.

De Ley, Jozef: *See—*
  Verstraete, Willy; and De Ley, Jozef, 4,696,747, Cl. 210-605.000.

Deley, Serge; and Fourrey, Francois, to Cycles Peugeot. Adjustable headrest for a motor vehicle seat structure or the like. 4,685,737, 8-11-87, Cl. 297-408.000.

Delezay, Marylene: *See—*
  Bourgois, Alain; Delezay, Marylene; and Fert, Vincent, 4,670,543, Cl. 530-383.000.

Del Fabbro, Gilbert: *See—*
  Courjaret, Francois; Del Fabbro, Gilbert; Devic, Jean-Noel; Divoux, Michel; Forella, Guy; Hamant, Jean-Pierre; Tubiana, Dominique; and Pavie, Claude, 4,701,094, Cl. 414-330.000.

Delfino, Gerolamo; Franco, Simone; and Verdi, Cesare, to Minnesota Mining and Manufacturing Company. Light-sensitive elements for radiographic use in the formation of an X-ray image. 4,695,531, 9-22-87, Cl. 430-513.000.

Delfino, Michelangelo; and Cairns, Bruce R., to Fairchild Semiconductor Corporation. Plasma confinement in a low pressure electrically grounded R.F. heated reactor and deposition method. 4,686,113, 8-11-87, Cl. 427-45.100.

Delflache, Robert J., to n.v. ADB s.a. Monitoring device for airfield lighting system. 4,675,574, 6-23-87, Cl. 315-130.000.

Delfourne, Paul, to R.A.T.P. Regie Autonome des Transports Parisiens. Inter-carriage passage for a railway train. 4,690,068, 9-1-87, Cl. 105-8.100.

Delfs, Larry M., to Deere & Company. Auxiliary hydrostatic drive system. 4,696,367, 9-29-87, Cl. 180-306.000.

Delfs, Larry M.: *See—*
  Barber, Dennis R.; Delfs, Larry M.; and Burk, Ronnie F., 4,713,936, Cl. 60-403.000.

Delgado, Jose M. R. Electronic system for the activation, inhibition and/or modification of the development and functioning of cells, organs and organisms of living beings. 4,641,633, 2-10-87, Cl. 128-1.300.

Delgado, Joseph M.: *See—*
  Bennett, Mark A.; Hageman, Martin P.; and Delgado, Joseph M., 4,665,579, Cl. 14-71.100.

Delgado, Paul A.: *See—*
  Koroscil, Anthony; Smithey, Walter A.; and Delgado, Paul A., 4,682,544, Cl. 102-336.000.

Delgado, Robert F.; and Magrini, Kenneth H., to Metoramic Sciences, Inc. Composite carrier plate. 4,669,416, 6-2-87, Cl. 118-503.000.

Del Giudice, Felice: *See—*
  Vicmanza, Camillo; and Del Giudice, Felice, 4,643,081, Cl. 98-114.000.

Del Giudice, Luciano; Nocci, Roberto; Giannini, Umberto; and Gianini, Giuseppe, to Montedison S.p.A. Thermoplastic compositions including polyphenylenether, having improved impact strength and processability characteristics. 4,713,416, 12-15-87, Cl. 525-68.000.

Delgiffe, Jean-Claude; Lobmann, Michele; and Zygraich, Nathan, to SmithKline-RIT. Temperature sensitive strain of bovine viral diarrhoea virus. 4,714,678, 12-22-87, Cl. 435-235.000.

el Granado, Juan. Internal combustion engine of three rotation piston. 4,658,779, 4-21-87, Cl. 123-237.000.

grange, Louis; and Vialettes, Francoise, to Thomson-CSF. Process for the control of an alternating current plasma panel and apparatus for performing the same. 4,636,784, 1-13-87, Cl. 340-771.000.

elgrange, Louis; and Vialettes, Francoise, to Thomson-CSF. Control circuit for an alternate type plasma panel. 4,652,796, 3-24-87, Cl. 315-169.400.

elhaes, Johannes C., to Rubber- en Kunststoffabriek ENBI B.V. Mounting ring for fitting pipe sections. 4,662,662, 5-5-87, Cl. 285-378.000.

Delhaye, Michel; Deffontaine, Andre; Chapput, Andre; Bridoux, Michel; and Da Silva, Edouard. Method of discrimination in spectrometry. 4,678,277, 7-7-87, Cl. 356-301.000.

Delheusy, Jean C.: *See—*
  Le Clercq, Pierre A. L. M. G.; Delheusy, Jean C.; and Rigot, Guy J., 4,697,955, Cl. 405-135.000.

Delhommer, Harold J.; and Walker, Clarence O., to Texaco Inc. Method for controlling lost circulation of drilling fluids with hydrocarbon absorbent polymers. 4,633,950, 1-6-87, Cl. 166-295.000.

Delhommer, Harold J.; and Walker, Clarence O., to Texaco Inc. Encapsulated oil absorbent polymers as lost circulation additives for oil based drilling fluids. 4,704,213, 11-3-87, Cl. 252-8.512.

Delhon, Andre: *See—*
  Cousse, Henri; Delhon, Andre; Rieu, Jean-Pierre; and Patoiseau, Jean-Francois, 4,714,789, Cl. 568-807.000.

Delia, Anthony D.: *See—*
  Ludwig, Clifford J.; and Delia, Anthony D., 4,707,865, Cl. 4-228.000.
  Fereira, Joseph J.; Delia, Anthony D.; and Miller, Scott W., 4,664,288, Cl. 220-209.000.

Delibes Pty. Ltd.: *See—*
  Hillier, Raymond G., 4,683,174, Cl. 428-583.000.

Delibes Pty. Ltd.: *See—*
  Hillier, Raymond G., 4,671,169, Cl. 92-59.000.

Delichte, Lawrence G. Livestock feeder for cylindrical bales. 4,706,609, 11-17-87, Cl. 119-60.000.

Deligny, Jean, to Societe des Cables du Mans. Mechanical control by cable with automatic adjustment. 4,693,137, 9-15-87, Cl. 74-501.50R.

DeLima, Daniel D. Wave-propelled marine vessel. 4,684,350, 8-4-87, Cl. 440-9.000.

Deline, Douglas N. Protective seal for a can. 4,708,257, 11-24-87, Cl. 220-257.000.

Deline, John R. M.: *See—*
  Reid, Bruce A.; and Deline, John R. M., 4,710,690, Cl. 318-685.000.

De Liotta, Holga E. T.; and Liotta, Domingo S. Cardiac valvular prosthesis. 4,655,772, 4-7-87, Cl. 623-2.000.

Delius, Doris: *See—*
  Delius, Siegried; and Delius, Doris, 4,690,601, Cl. 414-96.000.

Delius, Siegried; and Delius, Doris. Storage assembly and method of using same. 4,690,601, 9-1-87, Cl. 414-96.000.

Delker, Wilfried: *See—*
  Derdack, Dieter; and Delker, Wilfried, 4,685,487, Cl. 137-315.000.

Delkor Technik (Proprietory) Ltd. of Delkor House: *See—*
  Arbuthnot, Ian M.; Amm, Errol T.; and Davidson, Raymond J., 4,692,240, Cl. 209-254.000.

Dell, Paul C.: *See—*
  Sheppard, Joseph E.; Dell, Paul C.; Gearen, Peter F.; Bittar, Edward S.; and Miller, Gary J., 4,643,177, Cl. 128-84.00C.

Della Bella, Davide: *See—*
  Chiarino, Dario; Carenzi, Angelo; Della Bella, Davide; and Fantucci, Mario, 4,638,003, Cl. 514-255.000.

della Faille d'Huysse, Gaetan; and Boxus, Louis, to Solvay & Cie (Societe Anonyme). Composition based on calcium chloride hexahydrate for storing heat using a phase change and process for its preparation. 4,645,612, 2-24-87, Cl. 252-70.000.

Della Fortuna, Giorgio: *See—*
  Dozzi, Giovanni; Della Fortuna, Giorgio; and Cucinella, Salvatore, 4,710,531, Cl. 524-239.000.

Dellapina, Marco: *See—*
  Kampfer, Konrad; Rieger, Wolfhart; Gauckler, Ludwig; and Dellapina, Marco, 4,67[illegible],758, Cl. 501-80.000.

Dellar, David V.: *See—*
  Kruper, William J., Jr.; and Dellar, David V., 4,663,467, Cl. 549-229.000.

Dellar, Richard J.: *See—*
  Clubley, Brian G.; Dellar, Richard J.; Buszard, David L.; and Richardson, Norman, 4,656,200, Cl. 521-108.000.
  Richardson, Norman, deceased; Clubley, Brian G.; and Dellar, Richard J., 4,666,967, Cl. 524-130.000.

Dellaria, Joseph F.: *See—*
  Luly, Jay R.; Plattner, John J.; and Dellaria, Joseph F., 4,645,759, Cl. 514-18.000.
  Luly, Jay R.; Plattner, John J.; and Dellaria, Joseph F., 4,652,551, Cl. 514-18.000.

Della Sala, Berardino. Total artificial heart. 4,650,485, 3-17-87, Cl. 623-3.000.

Dellassio, Anthony D.; Yakovlevitch, Daniel; and Smyth, Richard T., to Perkin-Elmer Corporation, The. Nozzle assembly for plasma spray gun. 4,688,722, 8-25-87, Cl. 239-81.000.

della Valle, Francesco; and Romeo, Aurelio, to Fidia, S.p.A. Kit or device and method for administering gangliosides and derivatives thereof by inhalation and pharmaceutical compositions suitable therefor. 4,639,437, 1-27-87, Cl. 514-54.000.

della Valle, Francesco; Romeo, Aurelio; and Lorenzi, Silvana, to Fidia, S.p.A. Gangliosides mixture, useful as a therapeutical tool for eliminating painful effects or peripheral neuropathies. 4,707,469, 11-17-87, Cl. 514-26.000.

della Valle, Francesco; and Romeo, Aurelio, to Fidia, S.p.A. Ganglioside derivatives. 4,713,374, 12-15-87, Cl. 514-54.000.

della Valle, Francesco; and Romeo, Aurelio, to FIDIA, S.p.A. Method for preparing ganglioside derivatives and use thereof in pharmaceutical compositions. 4,716,223, 12-29-87, Cl. 536-53.000.

Dellbrugge, Herbert, to Windmoller & Holscher. Apparatus for flattening and withdrawing blown continuous plastic tubular films. 4,634,358, 1-6-87, Cl. 425-72.00R.

Delle Piane, Alberto; Sartorio, Franco; Cantello, Maichi; and Ghiringhello, Guglielmo, to Prima Progetti S.p.A. Method of laser welding sheet metal protected by low-vaporizing-temperature materials. 4,682,002, 7-21-87, Cl. 219-121.0LD.

Dellicicchi, Alfred J.: *See*—

Altman, Barbara H.; Bruckert, William F.; and Dellicicchi, Alfred J., 4,700,330, Cl. 365-222.000.

Dellinger, Eugene L. Orthodontic apparatus and method for treating malocclusion. 4,657,508, 4-14-87, Cl. 433-24.000.

Dellinger, J. A.; Goins, Neal R.; and Reilly, Theresa A., to Mobil Oil Corporation. Matching P wave and shear wave sections in seismic exploration. 4,686,657, 8-11-87, Cl. 367-75.000.

Dellinger, Juergen; Kraemer, Ulrich; Schlieske, Rainer; and Wohlers, Heinz, to MBB GmbH. Parachute landing of unmanned aircraft. 4,659,041, 4-21-87, Cl. 224-139.000.

Dellinger, Juergen; Hoeppner, Hans-Jochen; and Kraemer, Ulrich, to Messerschmitt-Bolkow-Blohm GmbH. Unmanned aircraft. 4,666,105, 5-19-87, Cl. 244-63.000.

Dellinger, Thomas A.; and Hampton, Clifton G., to Siecor Corporation. Indoor type telephone network interface device. 4,647,725, 3-3-87, Cl. 329-29.000.

Dellinger, Thomas A.: *See*—

Hampton, Clifton G.; and Dellinger, Thomas A., 4,666,225, Cl. 339-42.000.

Dellinger, Thomas B., to Mobil Oil Corporation. Method for reducing drilling torque in the drilling of a deviated wellbore. 4,643,264, 2-17-87, Cl. 175-61.000.

Dellinger, Thomas B., to Mobil Oil Corporation. Method for raising and lowering a drill string in a wellbore during drilling operations. 4,646,855, 3-3-87, Cl. 175-61.000.

Dellinger, Thomas B., to Mobil Oil Corporation. Method of drilling deviated wellbores. 4,697,651, 10-6-87, Cl. 175-61.000.

Dellorfano, Fred M., Jr.: *See*—

Massa, Frank; and Massa, Donald P., 4,641,290, Cl. 367-106.000.

Massa, Frank, 4,660,186, Cl. 367-142.000.

Dell'Orto, Renato: *See*—

Robecchi, Edoardo; and Dell'Orto, Renato, 4,708,702, Cl. 474-261.000.

Delloye, Nicolas; and Denimal, Philippe, to Jeumont-Schneider Corporation. Device permitting reduction of thermosiphon effects in fast neutron nuclear reactors. 4,634,569, 1-6-87, Cl. 376-203.000.

Del Mar, Jorge: *See*—

Morrison, Herbert M.; and Del Mar, Jorge, 4,714,820, Cl. 219-222.000.

Delmas, Philippe; Puig, Jose; and Schaeffner, Marc, to Laboratorie Central des Ponts et Chaussees; and MUR EBAL. Facing in the form of plates for the bank of earthen formations, particularly soil masses reinforced by geotextile sheets. 4,662,794, 5-5-87, Cl. 405-258.000.

Delmastro, John A., to General Motors Corporation. Adjustable fastener for bumper bar. 4,661,030, 4-28-87, Cl. 411-85.000.

Delmege, Dale; and Rask, Richard O., to Standard Precision, Inc. Drawer slide with infinite adjustment locking mechanism. 4,679,950, 7-14-87, Cl. 384-18.000.

Delmerico, Paul E., to Rubbermaid Commercial Products, Inc. Collapsible utility cart. 4,705,247, 11-10-87, Cl. 248-98.000.

Delmore, James E., to United States of America, Energy. Negative ion source. 4,649,279, 3-10-87, Cl. 250-427.000.

Del Mundo, Alfredo R.; and Kiivans, Dean S., to Rockwell International Corporation. Composite blind fasteners. 4,659,268, 4-21-87, Cl. 411-34.000.

Delnero, Thomas V. Broken cork remover. 4,679,467, 7-14-87, Cl. 81-3.070.

Delnon, Hanspeter. Apparatus for orthoradial panoramic tomography. 4,694,478, 9-15-87, Cl. 378-39.000.

DeLoach, Anthony, to Water Equipment Services, Inc. Loose fill media cleaning apparatus. 4,682,613, 7-28-87, Cl. 134-58.00R.

Delobel, Gerard; and Paulin, Daniel, to Les Cables de Lyon. Machine for winding on a cable, with a very short pitch, at least one metal sheathing wire. 4,663,928, 5-12-87, Cl. 57-264.000.

DeLong, Bradley W., to Phillips Petroleum Company. Method for cooling normally gaseous material. 4,680,041, 7-14-87, Cl. 62-11.000.

DeLong, Carl R.: *See*—

Kingston, Arthur G.; and DeLong, Carl R., 4,712,309, Cl. 33-527.000.

DeLong, Edward A. Method of producing level off DP microcrystallinecellulose and glucose from lignocellulosic material. 4,645,541, 2-24-87, Cl. 127-37.000.

Delong, Robert W.: *See*—

Hartman, William J., Sr., 4,684,834, Cl. 310-24.000.

DeLong, Sanford D., to DeLong, Sanford D. Electromagnetic reciprocating pump and motor means. 4,692,673, 9-8-87, Cl. 318-132.000.

DeLong, Teresa A.: *See*—

Goel, Anil B.; and DeLong, Teresa A., 4,644,052, Cl. 528-363.000.

Delonghi, Adriano G. A., to Fabricacion de Maquinas, S.A. Bottle carrier. 4,634,002, 1-6-87, Cl. 206-158.000.

Delons, Luc; and Chaumont, Roger, to Elf France. Device for the selective and continuous recovery of hydrocarbons present in the form of a sheet at the surface of an aqueous medium. 4,681,680, 7-21-87, Cl. 210-110.000.

DeLorbe, William J.: *See*—

Kempe, Tomas; Purchio, Anthony F.; Collett, Marc S.; and DeLorbe, William J., 4,661,450, Cl. 435-172.300.

DeLord, Ernest P. Rail for an air turning vane assembly. 4,641,684, 2-10-87, Cl. 137-561.00A.

DeLord, Ernest P. Locking tool. 4,676,087, 6-30-87, Cl. 72-325.000.

DeLorenzo, Anthony N.: *See*—

Spieth, Robert H.; Louie, Chuen W.; Volk, John L.; Roelof, Darrell D.; DeLorenzo, Anthony N.; Romeo, Arthur L.; and Mayer, Thomas L., 4,680,510, Cl. 315-368.000.

Spieth, Robert H.; and DeLorenzo, Anthony N., 4,709,262, Cl. 358-74.000.

De Lott, Stuart C., to Wingspread Corporation. Convertible garmen 4,700,409, 10-20-87, Cl. 2-94.000.

Delotto, Romeo; and Orlandin, Vanis, to Indesit Industria Elettrodomestici Italiana S.p.A. Sensing group in an automatic contro temperature system for foods in vessels heated by a flame from a ga burner. 4,646,963, 3-3-87, Cl. 236-20.00A.

Delotto, Romeo: *See*—

Alluto, Luigi; Delotto, Romeo; and Orlandin, Vanis, 4,645,124, C 236-20.00A.

Delphax Systems: *See*—

Maczuszenko, Andrzej; Theodoulou, Sotos M.; and Rumsey, Joh 4,692,017, Cl. 355-3.0DD.

Delphi Research, Inc.: *See*—

Dhooge, Patrick M., 4,699,700, Cl. 204-105.00R.

Delphia, John B. Fresh-air snorkel. 4,655,212, 4-7-87, Cl. 128-201.1

Delphic Research Laboratories, Inc.: *See*—

Ellis, Harold, 4,661,398, Cl. 428-245.000.

Delprato, Ivano; and Squarcia, Francesco, to Minnesota Mining an Manufacturing Company. 2-equivalent cyan dye-forming 5-hydrox 6-acylamino-benzoxazole-2-one couplers, silver halide photograph elements and processes employing them. 4,668,610, 5-26-87, C 430-385.000.

Delprato, Ivano, to Minnesota Mining and Manufacturing Compan Cyan dye-forming couplers and photographic elements and processes. 4,672,011, 6-9-87, Cl. 430-17.000.

Del Priore, Paul J., to RCA Corporation. Test mask for determining alignment of an automatic IC mask testing apparatus. 4,710,44 12-1-87, Cl. 430-5.000.

Delpuech, Alain G. M.: *See*—

Ohmer, Herve; and Delpuech, Alain G. M., 4,701,890, C 367-25.000.

del Rosario, Luis. Vehicle warning system. 4,710,745, 12-1-87, C 340-63.000.

Del Rosso, Victor, to Hi-Speed Checkweigher Co., Inc. Display of da source trends. 4,689,615, 8-25-87, Cl. 340-722.000.

Delseth, Jean-Marc; Mauer, Daniel E.; and Moniotte, Philippe G., t Monsanto Europe, S.A. Rubber/metal composites. 4,704,33 11-3-87, Cl. 428-458.000.

Del Signore, James R., II, to NCR Corporation. Dot matrix print hea energy control circuit. 4,683,817, 8-4-87, Cl. 101-93.030.

Del Signore, Leonello: *See*—

Caporossi, Adolfo; and Del Signore, Leonello, 4,695,616, C 526-202.000.

del Soldato, Piero: *See*—

Bietti, Giuseppe; Cereda, Enzo; Donetti, Arturo; del Solda Piero; Giachetti, Antonio; and Micheletti, Rosamaria, 4,645,84 Cl. 548-128.000.

Cereda, Enzo; Donetti, Arturo; Giachetti, Antonio; and del So dato, Piero, 4,643,993, Cl. 514-93.000.

Cereda, Enzo; Bietti, Giuseppe; Donetti, Arturo; del Solda Piero; Giachetti, Antonio; and Pagani, Ferdinando, 4,666,932, C 514-400.000.

Cereda, Enzo; Bietti, Giuseppe; Donetti, Arturo; del Solda Piero; Giachetti, Antonio; and Pagani, Ferdinando, 4,699,915, C 514-357.000.

Delta Electronics: *See*—

Wright, Charles S., 4,638,503, Cl. 381-16.000.

Delta Elettronica s.r.l.: *See*—

Memmola, Serafino, 4,683,774, Cl. 74-501.00R.

Delta International Machinery Corp.: *See*—

Brickner, Louis C., Jr.; and Skipworth, Jerry D., 4,694,720, C 83-471.300.

Brickner, Louis C., Jr., 4,694,721, Cl. 83-471.300.

Miller, David, 4,681,006, Cl. 83-782.000.

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Marino, Emilio; and Mastromarino, Raffaele, 4,682,717, C 222-591.000.

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eLuca, Raymond F.: *See*—

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Wells, William D.; Robinson, David M.; DeLuca, Richard M.; and Burwen, Eric D., 4,698,509, Cl. 250-492.200.

eLuca, Robert A.: *See*—

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Specht, Theodore R.; and Del Vecchio, Robert M., 4,652,771, Cl. 307-83.000.

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Benoit, Louis; Mabboux, Michel; Nerrinck, Bernard; and De Marchi, Jean-Louis, 4,677,768, Cl. 36-117.000.

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DeMario, Edmund E.; Boyle, Raymond F.; and Kuchirka, Peter J., to Westinghouse Electric Corp. Coolant flow mixer grid for a nuclear reactor fuel assembly. 4,692,302, 9-8-87, Cl. 376-439.000.

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Demarle, Robert. Method and apparatus for producing a pipe of fiber-reinforced, hardenable synthetic resin. 4,705,660, 11-10-87, Cl. 264-108.000.

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- Sebille, Bernard; Beuzard, Yves; and Demarne, Henri, 4,694,015, Cl. 514-375.000.
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de Mauduit, Yves: *See*—
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DeMay, Roland: *See*—
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- Ghibely, Bruno, 4,676,423, Cl. 227-121.000.

Dembecki, Stanley L.: *See*—
- Brown, Craig R., 4,686,953, Cl. 123-606.000.
- Brown, Craig R., 4,686,954, Cl. 123-607.000.

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De Meirsman, Laurent, to Electronics Corporation of America. Method and apparatus for monitoring flame condition. 4,639,717, 1-27-87, Cl. 340-578.000.

Demejo, Lawrence P.: *See*—
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de Mello, Carol R.: *See*—
- Markwell, Roger E.; Ward, Robert W.; and de Mello, Carol R., 4,716,160, Cl. 514-212.000.

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- Dubertret, Alain; Rizzo, Gilles; Bargain, Raymond; De Mendez, Michel; and Thenaisie, Jacky, 4,687,269, Cl. 439-161.000.

de Menibus, Olivier H., to Appareillages et Materiels de Servitudes. Self-closing connector. 4,674,535, 6-23-87, Cl. 137-614.030.

DeMenthon, Daniel F. Computer-controlled peripheral shaping system. 4,675,825, 6-23-87, Cl. 364-474.000.

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Demer, Linda L.; Jain, Avanindra; Raizner, Albert E.; and Hartley, Craig J., to Baylor College of Medicine. Method and device for performing transluminal angioplasty. 4,651,738, 3-24-87, Cl. 128-344.000.

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- Conrad, Kenneth R.; and De Mercurio, Rudolph S., 4,653,192, Cl. 33-200.000.

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Demiddeleer, Leopold: *See*—
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Demin, Vladislav M.: *See*—
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- Shishov, Nikolai M.; Zelenetsky, Vladimir E.; Demina, Nadezhda A.; Bondarev, Ivan M.; Cherny, Alexandr N.; Avxentiev, Anatoly G.; and Rylov, Evgeny E.; deceased, 4,645,487, Cl. 604-58.000.

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- Penberthy, Vivian M., 4,699,338, Cl. 244-152.000.

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Demont, Allen. Cutting apparatus. 4,683,792, 8-4-87, Cl. 83-874.000.

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DeMoore, Howard W. Method and apparatus for attaching anti-smear net to printing press transfer cylinder. 4,691,632, 9-8-87, Cl. 101-426.000.

Demopoulos, George P.; Pouskouleli, George; and Prud'Homme, Pierre J. A., to Canadian Patents and Development Limited. Direct recovery of precious metals by solvent extraction and selective removal. 4,654,145, 3-31-87, Cl. 210-638.000.

Demorest, Donald W., to Deere & Company. Snubber mechanism for ratchet-type slip clutch. 4,653,623, 3-31-87, Cl. 192-56.00R.

DeMoss, Dean; and Ragle, Herbert U., to Unisys Corp. Means and methods for improved transducing of flexible disk packs. 4,713,705, 12-15-87, Cl. 360-98.000.

DeMoss, Dean L.; and Ragle, Herbert U., to Burroughs Corporation. Partitionable record pack. 4,670,803, 6-2-87, Cl. 360-99.000.

Demoulin, Catherine A.; Ausserre, Dominique; and Rondelez, Francis, to Centre National de la Recherche Scientifique. Method and apparatus for determining the contact angle of a drop of liquid placed on a solid or liquid horizontal substrate. 4,688,938, 8-25-87, Cl. 356-154.000.

Demoulin, Jean; Hemmer, Walter; and Schiel, Reinhard, to Charbonnages de France. Rotary cutter for gouging out ore from mine faces. 4,647,112, 3-3-87, Cl. 299-81.000.

Demoulin, Jean; Hemmer, Walter; and Schiel, Reinhard, to Charbonnages de France. Rotary cutter with spray nozzles for removal of ores from mine faces. 4,668,018, 5-26-87, Cl. 299-81.000.

Demoulin, Jean J., to Charbonnages de France. Sectorial sprinkling device for coal mining. 4,660,892, 4-28-87, Cl. 299-81.000.

De Moura, David N.: *See*—

Nudd, Howard W., Jr.; and De Moura, David N., 4,693,121, Cl. 73-706.000.

Demouron, Bernard R.: *See*—

Fontaine, Guy R.; Malizard, Max A.; and Demouron, Bernard R., 4,702,674, Cl. 417-44.000.

Demoute, Jean-Pierre: *See*—

Martel, Jacques; Tessier, Jean; and Demoute, Jean-Pierre, 4,642,372, Cl. 560-124.000.

Tessier, Jean; and Demoute, Jean-Pierre, 4,689,342, Cl. 524-427.000.

Tessier, Jean; and Demoute, Jean-Pierre, 4,701,542, Cl. 549-456.000.

Dempf, Josef; and Moser, Erich, to Siemens Aktiengesellschaft. Output device in a printing mechanism for single documents separated from a perforated continuous-form paper web. 4,682,770, 7-28-87, Cl. 271-176.000.

Dempsey, Barry J., to Monsanto Company. Drainage mat. 4,662,778, 5-5-87, Cl. 404-35.000.

Dempsey, Beth R., Adminstratrix: *See*—

Stephens, Ray W., Jr.; and Dempsey, Beth R., Adminstratrix, 4,715,346, Cl. 123-524.000.

Dempsey, Daniel J.: *See*—

Thompson, Kevin D.; Dempsey, Daniel J.; and Peitz, Robert W., Jr., 4,703,747, Cl. 126-112.000.

Dempsey, Donald J.: *See*—

Szycher, Michael; Dempsey, Donald J.; and Rolfe, Jonathan L., 4,638,043, Cl. 528-75.000.

Dempsey, Edward J. Portable game fish attracting device. 4,672,764, 6-16-87, Cl. 43-4.000.

Dempsey, Edward J. Sawblade collar assembly. 4,691,685, 9-8-87, Cl. 125-14.000.

Dempsey, Russell M.; Fragala, Anthony R.; LaConti, Anthony B.; and Enos, John F., to United Technologies Corporation. Method for evolution of oxygen with ternary electrocatalysts containing valve metals. 4,707,229, 11-17-87, Cl. 204-129.000.

Dempsky, Mark A.: *See*—

Dumbovic, Steve; and Dempsky, Mark A., 4,707,782, Cl. 364-200.000.

Dempster Systems Inc.: *See*—

Hund, Henry M., Jr., 4,647,267, Cl. 414-408.000.

Hund, Henry M., Jr., 4,665,649, Cl. 49-280.000.

Sutton, Gary, 4,642,019, Cl. 414-525.00R.

Sutton, Gary, 4,694,858, Cl. 137-596.000.

Dems, Bernard C.: *See*—

Baginski, Richard M.; Dems, Bernard C.; Ross, Linda A.; and Soule, Ralph H., Jr., 4,652,392, Cl. 252-109.000.

Demukai, Noboru: *See*—

Hayashi, Kiyohide; Sugiura, Saburo; and Demukai, Noboru, 4,691,899, Cl. 266-140.000.

Sugiura, Saburo; Kanada, Kenji; Demukai, Noboru; and Okamoto, Tetsuo, 4,706,258, Cl. 373-2.000.

de Munck, Johannes W. J.; and Lohmeijer, Johannes H. G. M., to General Electric Company. Polyphenylene ether compositions having improved impact and ESCR. 4,647,594, 3-3-87, Cl. 521-146.000.

De Munno, Angela: *See*—

Bertini, Vincenzo; Marabini, Anna; De Munno, Angela; Barbaro, Maria; and Pocci, Marco, 4,698,171, Cl. 252-60.000.

Demura, Hajime: *See*—

Funakawa, Naoyoshi; Demura, Hajime; and Nagamori, Nobuyuki, 4,684,297, Cl. 407-41.000.

De Muro, David M.: *See*—

Green, Steven R.; De Muro, David M.; and Sokola, Raymond L., 4,692,726, Cl. 333-206.000.

Demus, Dietrich; Zaschke, Horst; Paschke, Reinhard; and Wiegeleben, Adalbert, to VEB Werk fur Fernsehelektronik im VEB Kombinat Mikroelektronik. Liquid crystalline substances. 4,668,426, 5-26-87, Cl. 252-299.610.

Den-Mat, Inc.: *See*—

Ibsen, Robert L.; Glace, William R.; and Jensen, Patricia A., 4,674,980, Cl. 433-228.100.

Den Norske Stats Oljeselskap A.S.: *See*—

Furuholt, Edgar; and Liaaen, Anders M., 4,696,453, Cl. 251-149.600.

Herve, Jean-Luc; Jouanneau, Jean-Francois; Kristensen, Ivar G.; and Haugen, Finn, 4,648,419, Cl. 137-245.500.

Ottestad, Nils T., 4,711,263, Cl. 137-102.000.

Thorn, Richard, 4,713,603, Cl. 324-61.00P.

DeNardis, Nicholas F. Circuitry for testing generator output. 4,682,103, 7-21-87, Cl. 324-158.0MG.

DeNardo, Sally J.: *See*—

Meares, Claude F.; DeNardo, Sally J.; Cole, William C.; and Mol, Min K., 4,678,667, Cl. 424-85.000.

Den Besten, Leroy E.; and Pinkerton, Cletis P. Cutter bit device. 4,684,176, 8-4-87, Cl. 299-91.000.

Denbo, Robert E.: *See*—

Tomo, Daniel; and Denbo, Robert E., 4,671,918, Cl. 264-564.000.

den Boef, Johannes H., to U.S. Philips Corporation. Method of reducing artefacts in images formed by means of fourier zeugmatography. 4,682,110, 7-21-87, Cl. 324-309.000.

Den Boef, Johannes H., to U.S. Philips Corporation. Method of reducing artefacts in images formed by means of Fourier zeugmatography. 4,706,023, 11-10-87, Cl. 324-309.000.

Den Boer, Patrick; Heinze, Richard F.; Meyers, Benjamin L.; and Mallik, Barendra C., to Crompton & Knowles Corporation. Aqueous lake pigment suspension. 4,652,313, 3-24-87, Cl. 106-289.000.

Den Boer, Patrick; and Heinze, Richard F., to Crompton & Knowles Corporation. Titanium dioxide suspension for use in film coating. 4,693,751, 9-15-87, Cl. 106-209.000.

den Boer, Willem; Payson, J. Scott; and Yaniv, Zvi, to Energy Conversion Devices, Inc. Programmable semiconductor switch for a display matrix or the like and method for making same. 4,667,189, 5-19-87, Cl. 340-713.000.

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den Broeder, Friedrich J. A.; Draaisma, Henricus J. G.; and Kahle, Alexander, to U.S. Philips Corporation. Magnetic recording medium. 4,678,721, 7-7-87, Cl. 428-607.000.

Denda, Hirokazu: *See*—

Kato, Hiroyasu; and Denda, Hirokazu, 4,635,150, Cl. 360-98.000.

Denda, Masaki: *See*—

Kaiya, Mitsuhiro; Denda, Masaki; Shimada, Masashi; Ohnuki, Hideki; and Ogura, Mineo, 4,660,052, Cl. 346-76.0PH.

Denda, Rinta, to Takeuchiseisakusho Co., Ltd. Machine for excavating work. 4,650,393, 3-17-87, Cl. 414-694.000.

Denda, Toshio, to Teraoka Seiko Co., Ltd. Wrapping machine. 4,674,269, 6-23-87, Cl. 53-502.000.

Denda, Toshio, to Teraoka Seiko Co., Ltd. Stretch film packaging machine. 4,709,531, 12-1-87, Cl. 53-415.000.

Dendro Maskin DM AB: *See*—

Norberg, Helmer L., 4,700,530, Cl. 53-410.000.

Den Dunne, Margaret S.: *See*—

Luckey, George W.; Roth, Bernard; Brendel, Kathleen E.; and Den Dunne, Margaret S., 4,710,637, Cl. 250-486.100.

Dene, Michael R. Readily assemblable lampshade, or the like. 4,714,987, 12-22-87, Cl. 362-352.000.

Denecke, Henry M. Time code decoder. 4,646,167, 2-24-87, Cl. 360-14.300.

Denekamp, Mark L.: *See*—

  Hannon, Marwan; and Denekamp, Mark L., 4,688,244, Cl. 379-58.000.

Deneke, Ulfert; Guthlein, Werner; Kuhr, Manfred; Merdes, Hartmut; Marawski, Hans-Rudiger; and Wielinger, Hans, to Boehringer Mannheim GmbH. Imidazole derivatives as redox indicators. 4,665,023, 5-12-87, Cl. 435-28.000.

Denemark, Phillip W.: *See*—

  Santucci, Donald; and Denemark, Phillip W., 4,635,886, Cl. 248-73.000.

Denen, Dennis J., to Floyd Bell Associates, Inc. Telephone ringer circuit. 4,658,419, 4-14-87, Cl. 379-375.000.

Denes, Laszlo: *See*—

  Bernath, Gabor; Kobor, Jeno; Fulop, Ferenc; Motika, Gabor; Sohajda, Attila; Ezer, Elemer; Hajos, Gyorgy; Palosi, Eva; Denes, Laszlo; and Szporny, Laszlo, 4,654,351, Cl. 514-307.000.

  Bernath, Gabor; Kobor, Jene; Fulop, Ferenc; Ezer, Elemer; Hajos, Gyorgy; Palosi, Eva; Denes, Laszlo; and Szporny, Laszlo, 4,656,179, Cl. 514-307.000.

  Bernath, Gabor; Kobor, Jeno; Fulop, Ferenc; Perjesi, Pal; Ezer, Elemer; Hajos, Gyorgy; Palosi, Eva; Denes, Laszlo; and Szporny, Laszlo, 4,668,688, Cl. 514-307.000.

  Bernath, Gabor; Kobor, Jeno ; Lazar, Janos; Motika, Gabor; Ezer, Elemer; Hajos, Gyorgy; Palosi, Eva; Denes, Laszlo; and Szporny, Laszlo , 4,677,109, Cl. 514-259.000.

Denes, Louis J.: *See*—

  Chantry, Pete J.; Denes, Louis J.; and Kline, Lawrence E., 4,670,883, Cl. 372-57.000.

de Neufville, John P.; Rajoria, Dalbir; and Ovshinsky, Stanford R., to Voltaix, Inc. Composite coating for electrochemical electrode and method. 4,707,422, 11-17-87, Cl. 429-48.000.

deNeufville, John P.: *See*—

  Lee, Henry; deNeufville, John P.; and Ovshinsky, Stanford R., 4,637,938, Cl. 427-53.100.

Deneuve, Francoise: *See*—

  Gourlaouen, Claire; Magnier, Claude; Latourrette, Bertrand; Tugaye, Anne; and Deneuve, Francoise, 4,698,175, Cl. 252-182.000.

de Neve, Michel: *See*—

  Braun, Camille; and de Neve, Michel, 4,654,048, Cl. 23-293.00A.

Den Exter Blokland, Hendrikus B.; and van Raay, Petrus J., to U.S. Philips Corp. Information display panel. 4,695,135, 9-22-87, Cl. 350-452.000.

Dengensha Manufacturing Company Limited: *See*—

  Furudate, Masato, 4,634,830, Cl. 219-117.100.

  Okabe, Yoshio; and Furudate, Masato, 4,634,828, Cl. 219-117.100.

  Okabe, Yoshio; and Furudate, Masato, 4,634,829, Cl. 219-117.100.

  Yoshimura, Katsuo; and Furudate, Masato, 4,647,751, Cl. 219-109.000.

Dengler, Alfred; and Medler, Eberhard, to Daimler-Benz Aktiengesellschaft. Arrangement for quickly changing nozzles on a spraying apparatus. 4,697,741, 10-6-87, Cl. 239-391.000.

Denham, Keith; and Archer, Stephen, to Avdel Limited. Self-plugging blind rivet. 4,639,174, 1-27-87, Cl. 411-34.000.

Denham, Willard A.; Lagarelli, Carmen J.; and Viegener, Rodolfo J., to Speakman Company. Ceramic disc faucet valve. 4,651,770, 3-24-87, Cl. 137-270.000.

DenHerder, Marvin J. Oil fuel combustion. 4,696,638, 9-29-87, Cl. 431-4.000.

Denhez, Alain; Hargoaa, Francis; and Aubree, Jean, to Alcatel. Triplicated clock distribution device for use when each clock signal comprises a synchonization signal. 4,692,932, 9-8-87, Cl. 375-107.000.

Denhez, Alain; Hargoaa, Francis; and Aubree, Jean, to Alcatel. Device for transmitting a clock signal accompanied by a synchronization signal. 4,694,291, 9-15-87, Cl. 340-825.200.

Denhez, Alain; Hargoaa, Francis; and Aubree, Jean, to Alcatel. Clock repeater for triplicated clock distributor. 4,698,826, 10-6-87, Cl. 375-3.000.

den Hollander, Cornelis J.; and Winters, Geert, to U.S. Philips Corporation. Arrangement for supervising a CMI-code converter. 4,651,328, 3-17-87, Cl. 375-25.000.

Den Hollander, Jan A.: *See*—

  Luyten, Peter R.; and Den Hollander, Jan A., 4,712,066, Cl. 324-309.000.

den Hollander, Willem; and Leonardi, Giovanni M., to RCA Corporation. Television display system with flicker reduction processor. 4,701,793, 10-20-87, Cl. 358-140.000.

Denholm, A. S.: *See*—

  Glavish, H. F.; Denholm, A. S.; and Simcox, G. K., 4,667,111, Cl. 250-492.200.

Denick, John, Jr.; Peters, David; Talwar, Anil K.; and Liao, Wei C., to Warner-Lambert Company. Medicament adsorbates with complex magnesium aluminum silicate and their preparation. 4,711,774, 12-8-87, Cl. 424-48.000.

Denick, John, Jr., to Warner-Lambert Company. Medicament adsorbates with surfactant and their preparation. 4,716,033, 12-29-87, Cl. 424-48.000.

Denick, John, Jr.: *See*—

  Peters, David; Denick, John, Jr.; and Talwar, Anil K., 4,642,231, Cl. 424-15.000.

  Peters, David; Denick, John, Jr.; and Talwar, Anil K., 4,643,892, Cl. 424-15.000.

  Peters, David; Denick, John, Jr.; and Talwar, Anil K., 4,643,898, Cl. 424-155.000.

  Peters, David; Denick, John, Jr.; and Talwar, Anil K., 4,647,449, Cl. 424-467.000.

  Peters, David; Denick, John, Jr.; and Talwar, Anil K., 4,647,450, Cl. 424-48.000.

  Peters, David; Denick, John, Jr.; and Talwar, Anil K., 4,647,459, Cl. 424-155.000.

  Peters, David; Denick, John, Jr.; and Talwar, Anil K., 4,649,041, Cl. 424-484.000.

  Peters, David; Denick, John, Jr.; and Talwar, Anil K., 4,650,665, Cl. 424-484.000.

Denicola, Patricia J.; and Gorgone, Patricia A., to Children's Hospital Medical Center. Garment for shielding lines connected to a patient during invasive therapy. 4,688,270, 8-25-87, Cl. 2-102.000.

de Nie-Sarink, Margaretha J.; and Mason, Ronald F., to Shell Oil Company. Process for preparing azetidine derivatives and intermediates thereof. 4,665,197, 5-12-87, Cl. 548-953.000.

Deniega, Jose C., to American Cyanamid Company. Nonmetallic surgical clip. 4,651,737, 3-24-87, Cl. 128-325.000.

Deniega, Jose C.: *See*—

  Montgomery, John R.; Bramaghim, Milton W.; and Deniega, Jose C., 4,662,373, Cl. 128-325.000.

Denier, Guy; and Henrion, Romain, to Institut de Recherches de la Siderurgie Francaise. Method of improving the service life of permeable refractory elements in bottoms of metallurgical vessels. 4,690,386, 9-1-87, Cl. 266-44.000.

Denier, Guy; and Henrion, Romain, to Institut de Recherches de la Siderurgie Francaise; and Arbed S.A. Method of improving permeability of metallurgical vessels, and material for implementing the same. 4,696,456, 9-29-87, Cl. 266-44.000.

Denier, Robert F.; Marshall, Robert H.; Jewell, John N.; and Litzinger, Elmer F., to Brown & Williamson Tobacco Corporation. Process for treating, drying and expanding tobacco. 4,677,994, 7-7-87, Cl. 131-310.000.

Denier, Robert F.; and Marshall, Robert H., to Brown & Williamson Tobacco Corporation. Process for drying and expanding tobacco. 4,687,007, 8-18-87, Cl. 131-296.000.

De Niet, Edmond: *See*—

  Vreeken, Roelof; De Niet, Edmond; and Rijckaert, Albert M. A., 4,689,577, Cl. 328-155.000.

de Nijs, Jacob; Hawkins, John R.; and Fuller, William H. Pressurized telecommunication cable joint closure method and apparatus. 4,647,713, 3-3-87, Cl. 174-21.00R.

Denimal, Philippe, to PROGE. Rapid profile recording device. 4,638,354, 1-20-87, Cl. 358-106.000.

Denimal, Philippe: *See*—

  Delloye, Nicolas; and Denimal, Philippe, 4,634,569, Cl. 376-203.000.

Dening, David C.: *See*—

  Chen, Young K.; Dening, David C.; Marchant, Christopher E.; and Nati, Salvatore F., Jr., 4,661,801, Cl. 340-347.0DD.

Denis, Jacques; Sillion, Bernard; Damin, Bernard; and Laupie, Jean-Michel, to Institut Francais du Petrole; and Elf France. Additives compositions useful in particular for improving the cold filterability properties of oil middle distillates. 4,664,676, 5-12-87, Cl. 44-62.000.

Denis, Jean; and Pierre, Poirier, to Electricite de France (Service National). Device for observing the tube plate of a steam generator. 4,660,924, 4-28-87, Cl. 350-96.100.

Denis, Jean; and Decaudin, Jean-Michel, to Electricite de France (Service National). Optical probe. 4,713,552, 12-15-87, Cl. 250-577.000.

Denis, Philippe V.: *See*—

  Schatteman, Etienne A. M.; and Denis, Philippe V., 4,664,454, Cl. 312-13.000.

Denis, Rene ; Ghiringhelli, Giulio; and Schaal, Alfred, to Commissariat a l'Energie Atomique; and Communaute Europeenne de l'Energie Atomique (Euratom). Cabled ultrasonic seal. 4,673,922, 6-16-87, Cl. 340-572.000.

Denis, Rene : *See*—

  Schaal, Alfred; LaHarrague, Philippe; and Denis, Rene , 4,689,612, Cl. 340-572.000.

Denis, Richard E.: *See*—

  Fenton, Paul V., Jr.; Young, Thomas M.; Adaniya, George; Denis, Richard E.; Miller, Robert L.; and Santin, Ernest M., 4,652,280, Cl. 604-67.000.

Denisard, Francoise: *See*—

  Rignon, Maurice; Catonne, Jean-Claude; Denisard, Francoise; and Malafosse, Jean, 4,678,549, Cl. 204-74.000.

Denison, James W. Wiper for rear view mirror. 4,653,136, 3-31-87, Cl. 15-250.00B.

Denison, Samuel J. M.; and Bashford, David P., to Westland plc. Helicopter rotor. 4,714,409, 12-22-87, Cl. 416-134.00A.

Denison, William J.; Smith, Lancing G.; and Walker, Lonnie R., to Halliburton Company. Grid system. 4,715,308, 12-29-87, Cl. 114-72.000.

Deniston Company: *See*—

  Brown, Francis J., 4,692,668, Cl. 315-241.00S.

Denizou, Jean-Pierre, to Fragema. Actuating device for linearly moving a cluster of control elements in a nuclear reactor. 4,714,582, 12-22-87, Cl. 376-233.000.

Denjoy, Inc.: *See*—

  McArthur, Donald A., 4,651,633, Cl. 99-335.000.

Denk, Heimo: *See*—

  Stubenberg, Johann; Denk, Heimo; and Zeiringer, Rudolf, 4,711,129, Cl. 73-708.000.

Denk, Joseph; and Wuertz, Kenneth L., to Garrett Corporation, The. Two pole permanent magnet rotor construction for toothless stator electrical machine. 4,667,123, 5-19-87, Cl. 310-156.000.

Denk, Joseph, to Garrett Corporation, The. Toothless stator construction for electrical machines. 4,709,180, 11-24-87, Cl. 310-179.000.

Denk, Walter, to Sueddeutsche Kuehlerfabrik Julius Fr. Behr GmbH & Co. KG. Slide valve with partial-vacuum actuator. 4,633,898, 1-6-87, Cl. 137-315.000.

Denk, Winfried: *See—*

Bednorz, Johannes G.; Denk, Winfried; Lanz, Martin; and Pohl, Wolfgang D., 4,684,206, Cl. 350-96.120.

Denkewalter, Robert G.: *See—*

Preziosi, Anthony F.; Patel, Gordhanbhai N.; Denkewalter, Robert G.; and Baughman, Ray H., 4,646,674, Cl. 116-216.000.

Preziosi, Anthony F.; Patel, Gordhanbhai N.; Denkewalter, Robert G.; and Baughman, Ray H., 4,699,997, Cl. 560-166.000.

Denki Kagaku Kogyo Kabushiki Kaisha: *See—*

Aoyagi, Tatsuhiro; and Shinmura, Tetsuya, 4,647,622, Cl. 525-84.000.

Iriuchijima, Shinobu; Kobayashi, Hirohiko; Aoki, Kyoji; Oda, Takeshi; Shinoyama, Masayuki; and Nosaka, Yoshifumi, 4,686,296, Cl. 548-544.000.

Kushida, Yuichiro; Tago, Shigenobu; and Aoyagi, Tatsuhiro, 4,657,974, Cl. 525-73.000.

Masui, Takeshi; and Sano, Morio, 4,637,945, Cl. 428-35.000.

Miyazaki, Yuji; Nishijima, Akio; and Kawakami, Kiyomiki, 4,664,900, Cl. 423-447.300.

Nabeta, Takeshi; and Hanahara, Isamu, 4,696,956, Cl. 523-137.000.

Nabeta, Takeshi; and Hanahara, Isamu, 4,704,413, Cl. 523-137.000.

Osawa, Toshiaki; Kobayashi, Yoshiro; Asada, Makoto; and Higuchi, Masahiro, 4,675,295, Cl. 435-172.200.

Sakai, Etsuo; Nishioka, Asaaki; Watanabe, Kiyosi; and Mino, Iwao, 4,705,626, Cl. 425-398.000.

Tanji, Hiroaki; Suzuki, Masaharu; Nomura, Kenji; Watanabe, Shojiro; and Kawasaki, Takashi, 4,690,841, Cl. 428-35.000.

Yamashita, Mitsuo; and Koda, Akinori, 4,698,948, Cl. 52-410.000.

Yamazaki, Hiroshi; Wakatsuki, Yasuo; Fujii, Chiyuki; and Watanabe, Seiichi, 4,656,299, Cl. 556-22.000.

enki Kogyo Company Limited: *See—*

Yanagawa, Motoo, 4,662,903, Cl. 55-126.000.

enki Onkyo Company Limited: *See—*

Saruta, Sadayoshi, 4,636,693, Cl. 315-368.000.

enkmann, W. John; Gustin, Paul R.; and Reichard, George W., Jr., to AT&T Information Systems Inc. Modular plug connector. 4,650,269, 3-17-87, Cl. 339-99.00R.

enkoh Co. Ltd.: *See—*

Murashima, Youichi, 4,695,706, Cl. 219-390.000.

enlinger, Keith R.; and Shuey, John R., to AMP Incorporated. Sealing member for bulkhead connector. 4,676,575, 6-30-87, Cl. 439-271.000.

enlinger, Keith R.; Rudy, William J., Jr.; and Stahl, Daniel E., to AMP Incorporated. Electrical plug header. 4,685,886, 8-11-87, Cl. 439-55.000.

enlinger, Keith R.: *See—*

Hayes, Earl J.; Cooper, Ralph M.; Denlinger, Keith R.; and Shuey, John R., 4,697,864, Cl. 439-444.000.

enman, Daniel G.: *See—*

Whitney, Ralph H.; Wilde, Sheldon L.; Schetzsle, John R.; and Denman, Daniel G., 4,664,280, Cl. 215-350.000.

enman, Owen S.; and Ebersole, George, to Energy Absorption Systems, Inc. Expanded cell crash cushion. 4,666,130, 5-19-87, Cl. 256-13.100.

enman, Owen S.: *See—*

Krage, William G.; Stephens, Barry D.; and Denman, Owen S., 4,711,481, Cl. 293-133.000.

nman, Stephen A., to Deuer Manufacturing Inc. Torque wrench with audio and visual indicator. 4,664,001, 5-12-87, Cl. 81-479.000.

nne, Phillip R. M.; and Hook, Christopher D. Identification systems. 4,691,202, 9-1-87, Cl. 340-825.540.

nnebouy, Roger: *See—*

Slodzian, Georges; Chaintreau, Marcel; Dennebouy, Roger; and Lorin, Jean-Claude, 4,672,204, Cl. 250-298.000.

nner, Manuel. Apparatus for in-camera identity marking of film. 4,678,301, 7-7-87, Cl. 354-106.000.

nner, Manuel. Apparatus for in-camera identity marking of film. 4,702,580, 10-27-87, Cl. 354-106.000.

nnert, Gunther: *See—*

Bohlen, Peter; and Dennert, Gunther, 4,675,383, Cl. 530-351.000.

nnett, Anthony J.: *See—*

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Anderson, Gary, 4,696,300, Cl. 128-334.00R.

Bone, Arnold, 4,651,913, Cl. 227-67.000.

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  - Klieman, Charles H.; and Densmore, Richard M., 4,674,504, Cl. 128-325.000.
- Denson, Lawrence K.: *See—*
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- Dent, Larry G. Pipe cutting device. 4,689,883, 9-1-87, Cl. 30-94.000.
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- Denton, Peter R.: *See—*
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  - Tateosian, Louis H.; and Wilson, W. Donald, 4,711,913, Cl. 522-14.000.
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  - Watt-Smith, Stephen R., 4,659,714, Cl. 514-260.000.
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  - Bennett, Douglas D.; Welsh, Richard E.; Hammesfahr, Paul D.; Francis, Earl C.; and Kopunek, Thomas V., 4,659,327, Cl. 604-135.000.
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  - Milnes, Ian M.; and Tateosian, Louis H., 4,650,550, Cl. 204-38.700.
  - Monroy, Enrique A., 4,681,543, Cl. 433-196.000.
  - Tateosian, Louis; and Roemer, Frederick D., 4,698,373, Cl. 522-95.000.
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- Denzel, Horst: *See—*
  - Kehr, Helmut; and Denzel, Horst, 4,707,411, Cl. 428-440.000.
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  - Breuer, Hermann; and Denzel, Theodor, 4,670,553, Cl. 540-363.00
- Denzin, Horst, to Francotyp GmbH. Method for date-setting electronically-controlled postage machines. 4,649,488, 3-10-87, Cl. 364-464.000.
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- Denzinger, Walter: *See—*
  - Messmer, Karlheinz; Hennig, Karl; Denzinger, Walter; Hettche, Albert; Trieselt, Wolfgang; and Raubenheimer, Hans-Juergen 4,670,524, Cl. 526-88.000.
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  - Cartmell, James V.; and DeRosa, Joseph F., 4,669,468, Cl. 128-303.130.
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  - Hampton, Thomas G.; Mitsch, James M.; Palmieri, Joseph M.; Parker, David S.; and DeRosier, Donna C., 4,706,054, Cl. 335-203.000.
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- Derrington, Carl E.: *See—*
  - Adams, Victor J.; and Derrington, Carl E., 4,686,764, Cl. 29-592.000.
  - Folk, Lee E.; and Derrington, Carl E., 4,708,012, Cl. 73-4.00R.
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- Dersch, Stefan: *See—*
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- Dershowitz, Kenneth L., to Motorola, Inc. Multichannel telephone system. 4,672,657, 6-9-87, Cl. 379-63.000.
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  - Burns, Steve; Hutchison, Thomas M.; and Dertian, Henry H., 4,700,963, Cl. 280-276.000.
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  - Imbach, Jean-Louis; Gosselin, Gilles; and De Rudder, Jean, 4,659,698, Cl. 514-49.000.
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- Desai, Sureshchandra G.: *See—*
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  - Michard, Jean A.; and De Saint-Martin, Lucien, 4,707,183, Cl. 75-10.220.

- De Sanctis, Egidio: *See—*
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- Desarmaux, Pierre: *See—*
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  - Barbier, Gerard Y. G.; Leboure, Gerald J. P. B.; Desaulty, Michel A. A.; Martinez, Rodolphe; and Perigne, Jerome, 4,696,157, Cl. 60-39.230.
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- Desert Technology, Inc.: *See—*
  - Hoenig, Stuart A., 4,670,026, Cl. 55-11.000.
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  - Chopra, Kasturi L.; Bunshah, Roitan F.; Deshpandey, Chandra V.; and Vankar, Vasant D., 4,714,625, Cl. 427-35.000.
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  - Palmin, Simyon; and Hewson, Brian, 4,703,238, Cl. 318-563.000.
  - Palmin, Simyon; and Shlain, Vladimir, 4,714,867, Cl. 318-696.000.
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  - Ritchie, Douglas, 4,674,891, Cl. 368-238.000.
  - Ritchie, Douglas, 4,693,613, Cl. 368-238.000.
- Design & Manufacturing Corporation: *See—*
  - Yake, William H., 4,657,036, Cl. 134-95.000.
- Design Mobility, Inc.: *See—*
  - Reich, Peter S., 4,682,377, Cl. 5-86.000.
- Designs for Vision, Inc.: *See—*
  - Feinbloom, Richard E., 4,662,733, Cl. 354-126.000.
- DeSimone, Daniel J.: *See—*
  - Ferris, David A.; and DeSimone, Daniel J., 4,697,103, Cl. 307-456.000.
- De Simone, Luigi: *See—*
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Workman, Gary L., 4,685,267, Cl. 52-577.000.

DesMarais, Raymond C., Jr., to Additive Technology Corporation. Printed circuit laminate, printed circuit board produced therefrom, and printed circuit process therefor. 4,664,962, 5-12-87, Cl. 428-137.000.

DesMarteau, Darryl D., to Research Corporation. N-fluoro-N-perfluoromethyl sulfonamides. 4,697,011, 9-29-87, Cl. 540-544.000.

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Vermeulen, Leon L.; Ghys, Theofiel H.; De Smedt, Willy P.; Vervloet, Ludovicus H.; and Callant, Paul R., 4,686,170, Cl. 430-244.000.

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des Ordons, Jacques R.: *See—*

Grenier, Gilles; Maffert, Jerome; Merle, Jean-Pierre; and des Ordons, Jacques R., 4,710,028, Cl. 356-375.000.

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Ansel, Robert E.; and Murray, Kevin P., 4,673,705, Cl. 524-850.000.

Ansel, Robert E., 4,682,851, Cl. 350-96.340.

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Gaske, Joseph E.; and Zychowski, Edwin A., 4,649,045, Cl. 424-61.000.

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Newman, Anthony W.; and Bishop, Michael L., 4,689,231, Cl. 427-220.000.

Roberts, Donald R., 4,692,484, Cl. 523-414.000.

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Ukachi, Takashi; Bessho, Kenichi; Kumano, Atsushi; Matsumura, Yoshio; and Ansel, Robert E., 4,683,280, Cl. 528-71.000.

Vandeberg, John T., 4,654,083, Cl. 106-86.000.

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Zychowski, Edwin A., 4,661,550, Cl. 524-376.000.

Desourdy, Bernard. Portable crushing plant. 4,655,402, 4-7-87, Cl. 241-76.000.

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Boger, Manfred; Reinehr, Dieter; De Sousa, Bernardo; and Schmid, Werner, 4,664,673, Cl. 8-490.000.

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Desouse, Egas J. Infinitely variable rotary drive transmission. 4,711,139, 12-8-87, Cl. 74-837.000.

Desoutter, Michel. Short and wide ski with a particular profile and provided with a movable retainer plate. 4,652,006, 3-24-87, Cl. 280-604.000.

deSouza, Antonio S., to Dunmore Corporation. Flexible electroluminescent film laminate. 4,684,353, 8-4-87, Cl. 445-51.000.

Despax, Damien M.: *See—*

Martin, Jean-Pierre H.; Pozzi, Jean-Pierre A.; and Despax, Damien M., 4,646,025, Cl. 324-346.000.

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Desport, Lucien A., to Engineering Management Data Processing (E.M.D.P.). Convertible mould. 4,695,032, 9-22-87, Cl. 249-112.000.

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Emrich, Helmut; Mathes, Josef; Ochs, Heinrich; and Despot, Janko, 4,711,173, Cl. 101-349.000.

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Katzman, James A.; Bartlett, Joel F.; Bixler, Richard M.; Davidow, William H.; Despotakis, John A.; Graziano, Peter J.; Green, Michael D.; Greig, David A.; Hayashi, Steven J.; Mackie, David R.; McEvoy, Dennis L.; Treybig, James G.; and Wierenga, Steven W., 4,639,864, Cl. 364-200.000.

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Despres, Dominique; and Lassiaz, Philippe, to Valeo. Release bearing mounting. 4,648,499, 3-10-87, Cl. 192-98.000.

Desprez, Marc; and Roux, Michel, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Explotation des Procedes Georges Claude. Device to improve the heating of a glass distribution channel and process for operating such device. 4,708,728, 11-24-87, Cl. 65-136.000.

Desray, Inc.: *See—*

Shamos, Desmond E., 4,669,454, Cl. 128-69.000.

Desrosiers, Wilfrid; and Labelle, Gaston. Humane animal trap. 4,638,590, 1-27-87, Cl. 43-88.000.

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essau, Ralph M.; and Olson, David H., to Mobil Oil Corporation. Method for upgrading olefinic lubes. 4,650,917, 3-17-87, Cl. 585-329.000.

essau, Ralph M., to Mobil Oil Corporation. Base-exchanged zeolite compositions with shape-selective metal functions. 4,652,360, 3-24-87, Cl. 208-138.000.

essau, Ralph M., to Mobil Oil Corporation. Process for preparing substituted furans. 4,658,045, 4-14-87, Cl. 549-506.000.

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essens, Petrus A.; and Rumphorst, Reinier F., to U.S. Philips Corporation. Circuit comprising series-connected semiconductor elements. 4,673,864, 6-16-87, Cl. 323-221.000.

essert, Robert A.: *See—*

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Snead, Edwin. Multi-hull, anti-capsizing sailboat. 4,671,198, 6-9-87, Cl. 114-39.000.

Snead, Edwin. Multi-hull sailboat with fixed airfoils. 4,708,075, 11-24-87, Cl. 114-39.100.

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Strooper, Eric B. A.: *See—*

De Boodt, Marcel F. L. P.; De Strooper, Eric B. A.; and Van Meirvenne, Marc R., 4,697,961, Cl. 405-264.000.

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Detalle, Pol: *See—*

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de Tavares, Joaquim. Toothbrush with gravity switch. 4,709,438, 12-1-87, Cl. 15-167.00A.

Detection Research, Inc.: *See—*

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Lederer, David B., 4,689,486, Cl. 250-338.000.

McMaster, Richard L., 4,660,024, Cl. 340-522.000.

Determann, Otto: *See—*

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Guittard, George V.; Deters, Joseph C.; Theeuwes, Felix; and Cortese, Richard, 4,673,405, Cl. 604-890.000.

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Winter, Roland A. E.; and Detlefsen, Robert E., 4,675,352, Cl. 524-91.000.

Detloff, John C. Locksmith's tool for installing springs and driver pins into pin tumbler locks. 4,675,994, 6-30-87, Cl. 29-804.000.

Detloff, John C., to A-1 Security Manufacturing Corp. Apparatus for disassembling locks. 4,680,860, 7-21-87, Cl. 29-804.000.

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Klacik, Kenneth J.; Vermesh, Robert J.; Fronczkowski, Paul R.; DeTora, Sigismondo A.; and Mihalich, Donald, 4,657,501, Cl. 425-379.00R.

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Detriche, Jean-Marie, to Commissariat a l'Energie Atomique. Process for the resetting of the path of a member and apparatus for performing this process. 4,642,447, 2-10-87, Cl. 219-124.340.

Detriche, Jean-Marie; Houche, Didier; and Gachet, Laurent, to Commissariat a l'Energie Atomique. Multiple coil eddy current probe equipped with a coil balancing device. 4,651,093, 3-17-87, Cl. 324-232.000.

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Detrick, Jeffrey C. Compatibility/incompatibility forecasting device. 4,711,632, 12-8-87, Cl. 434-106.000.

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Detronde, Michel, to Somafer. Process for the detection and recording of weak points or defects on hot iron and steel industry semifinished products. 4,671,674, 6-9-87, Cl. 374-5.000.

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Detsch, Steven G. Dental diagnostic method. 4,702,593, 10-27-87, Cl. 355-77.000.

Dettbarn, Hans-Jurgen; and Zimmermann, Josef, to Hoechst Aktiengesellschaft. Locking mechanism for the removable vaccine pump of a needleless injection instrument. 4,642,095, 2-10-87, Cl. 604-72.000.

Dettelbach, Alfred; and Seyfang, Rolf, to Reich Spezialmaschinen GmbH. Grinding disk and method of manufacturing such a disk. 4,668,248, 5-26-87, Cl. 51-293.000.

Dettelbach, Alfred; and Binder, Werner, to Reich Spezialmaschinen GmbH. Device for scoring workpieces. 4,711,147, 12-8-87, Cl. 83-863.000.

Detter, Gary C.; Norling, Samuel A.; Penney, Janet S.; and Tolnar, Emil J., Jr., to General Motors Corporation. Electrical connector with connector position assurance/assist device. 4,634,204, 1-6-87, Cl. 339-91.00R.

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  Daum, Ronald E.; Detter, Gary C.; and Spisak, Andrew M., 4,669,798, Cl. 439-423.000.
  Klembus, Nancy M.; and Detter, Gary C., 4,684,188, Cl. 439-587.000.

Dettinger, Dietrich: *See—*
  Abendroth, Paul; Holl, Roland; Mathes, Josef; and Dettinger, Dietrich, 4,664,032, Cl. 101-230.000.

Dettinger, Heinrich, to Kraftwerk Union Aktiengesellschaft. Tool for pulling a tube section from a tube sheet. 4,670,975, 6-9-87, Cl. 29-726.000.

Dettling, Hubert; Eisele, Hermann; Haag, Gottlob; Hagele, Karl-Heinz; Linder, Ernst; and Polach, Wilhelm, to Robert Bosch GmbH. Apparatus for removing solid particles from internal combustion engine exhaust gases. 4,649,703, 3-17-87, Cl. 60-275.000.

Dettling, Hubert; Haag, Gottlob; Hagele, Karl-Heinz; Leonhard, Rolf; and Polach, Wilhelm, to Robert Bosch GmbH. Soot afterburner for motor-vehicle exhaust system. 4,693,078, 9-15-87, Cl. 60-295.000.

Dettling, Hubert: *See—*
  Leonhard, Rolf; and Dettling, Hubert, 4,672,808, Cl. 60-286.000.

Dettling, Joseph C.: *See—*
  Wan, Chung Z.; Dettling, Joseph C.; and Jagel, Kenneth I., 4,675,308, Cl. 502-304.000.
  Wan, Chung-Zong; and Dettling, Joseph C., 4,677,095, Cl. 502-262.000.
  Wan, Chung-Zong; Dettling, Joseph C.; and Jagel, Kenneth I., 4,678,770, Cl. 502-304.000.
  Wan, Chung-Zong; and Dettling, Joseph C., 4,714,694, Cl. 502-304.000.

Dettmar, Peter W., to Reckitt & Colman Products Limited. Pharmaceutical compositions. 4,652,446, 3-24-87, Cl. 424-81.000.

Dettmar, Peter W., to Reckitt & Colman Products Limited. Pharmaceutical compositions. 4,705,683, 11-10-87, Cl. 424-81.000.

Dettmers, Michael: *See—*
  Kussel, Willy; Dettmers, Michael; and Weirich, Walter, 4,702,148, Cl. 91-527.000.

Dettwiler, Georges. Volumetric displacement fluid machine. 4,699,101, 10-13-87, Cl. 123-238.000.

Detty, Garnett E. Knee brace with extension angle establishing means. 4,715,363, 12-29-87, Cl. 128-80.00C.

Detty, Michael R.; Murray, Bruce J.; and Scozzafava, Michael, to Eastman Kodak Company. Novel 4H-tellurin tellurane electron-accepting sensitizers for electron-donating photoconductive compositions. 4,634,553, 1-6-87, Cl. 540-1.000.

Detweiler, Charles A., to Tom McGuane Industries, Inc. Temperature compensating vacuum delay valve. 4,643,352, 2-17-87, Cl. 236-48.00R.

Detzer, Rudiger; Loew, Werner; and Kohnen, Franz, to Kessler & Luch GmbH. Apparatus for humidifying, cleaning and cooling of gases. 4,697,435, 10-6-87, Cl. 62-304.000.

Detzner, Friedhelm: *See—*
  Muhlhahn, Dieter; Marsella, Gino; Detzner, Friedhelm; Simons, Dieter; Schafer, Horst-Dieter; and Haarkotter, Hermann, 4,660,811, Cl. 267-141.100.

Deuber, Andreas; and Siegl, Edmund, to Alcan Aluminiumwerk Nurnberg GmbH. Component for internal combustion engines and a process for its production. 4,646,692, 3-3-87, Cl. 123-193.00P.

Deubzer, Bernward: *See—*
  Mayer, Hans; Deubzer, Bernward; Iretzberger, Petra; Muhlhofer, Rudolf; and Wilhelm, Hermann, 4,661,551, Cl. 524-379.000.
  Mayer, Hans; Muhlhofer, Rudolf; Deubzer, Bernward; and Mayerhofer, Walter, 4,692,474, Cl. 521-88.000.

Deuer Manufacturing Inc.: *See—*
  Denman, Stephen A., 4,664,001, Cl. 81-479.000.

Deuring, Hans, to Goetze AG. Valve clearance adjusting device. 4,656,978, 4-14-87, Cl. 123-90.550.

Deuring, Hans, to Goetze AG. Shaft sealing system with lip and labyrinth seals. 4,667,967, 5-26-87, Cl. 277-53.000.

Deuterium Corporation: *See—*
  Spevack, Jerome S., 4,714,525, Cl. 203-10.000.

Deutermann, Alan R.; and Bodson, Charles D., to United States of America, Army. Mixed-mode symbol removal method for facsimile data compression. 4,703,362, 10-27-87, Cl. 358-263.000.

Deutsch, Albert S.: *See—*
  Blumel, David B.; and Deutsch, Albert S., 4,672,021, Cl. 430-191.000.

Deutsch, Armin; and Ruyten, Henricus M., to U.S. Philips Corporation. Magnetic-tape cassette apparatus with reversing tape direction. 4,636,889, 1-13-87, Cl. 360-96.200.

Deutsch, Armin; and Ruyten, Henricus M., to U.S. Philips Corporation. Switching mechanism for the deck of a magnetic-tape-cassette apparatus. 4,649,446, 3-10-87, Cl. 360-105.000.

Deutsch, Daniel H. Microporous coating for solid members to reduce stress, wear and fatigue at liquid interfaces. 4,692,376, 9-8-87, Cl. 428-315.500.

Deutsch, Emmanuel. Quantitative screening assay of tumor globulin from gastric juice. 4,656,025, 4-7-87, Cl. 424-7.100.

Deutsch Fastener Corp.: *See—*
  Molina, Jorge W., 4,649,732, Cl. 72-391.000.

Deutsch Forschungs- und Versuchsanstalt fur Luft- und Raumfahr e.V.: *See—*
  Hinz, Bernhard; and Steigleder, Walter, 4,665,869, Cl. 123-90.67

Deutsch-Franzosisches Forschungsinstitut Saint-Louis: *See—*
  Bauer, Francois, 4,684,337, Cl. 425-135.000.
  Wegner, Volker; and Schultze, Gunter, 4,664,013, Cl. 89-6.50

Deutsch, Howard M.: *See—*
  Haugwitz, Rudiger D.; Narayanan, Venkatachala L.; Zalkow Leon H.; Deutsch, Howard M.; and Gelbaum, Leslie, 4,670,46 Cl. 514-410.000.

Deutsch, Ida: *See—*
  Kreidl, Janos; Turcsanyi, Peter; Aracs, Zsuzsanna; Stefko, Be Meszaros, Judit; Deutsch, Ida; Szilbereky, Jeno; Csizer, Ev Vezer, Szilard; Bogsch, Erik; Bakos, Jozsef; Szotyori, Lasz and Heil, Balint, 4,710,323, Cl. 260-543.00R.

Deutsch, Jean-Claude: *See—*
  Clerc, Jean-Frederic; and Deutsch, Jean-Claude, 4,701,028, C 350-337.000.

Deutsch, Ralph, to Kawai Musical Instrument Mfg. Co., Ltd. Da mask tone variation in an electronic musical instrument. 4,636,7 1-27-87, Cl. 84-1.190.

Deutsch, Ralph, to Kawai Musical Instrument Mfg. Co., Ltd. Sig convolution production of time variant harmonics in an electron musical instrument. 4,643,067, 2-17-87, Cl. 84-1.010.

Deutsch, Ralph, to Kawai Musical Instrument Mfg. Co., Ltd. Phase memory addressing for noise reduction in an electronic music instrument. 4,646,608, 3-3-87, Cl. 84-1.010.

Deutsch, Ralph, to Kawai Musical Instrument Mfg. Co., Ltd. Ensemb tone generation in a musical instrument. 4,649,787, 3-17-87, C 84-1.220.

Deutsch, Ralph, to Kawai Musical Instrument Mfg. Co., Ltd. To synthesis using harmonic time series modulation. 4,656,912, 4-14-8 Cl. 84-1.220.

Deutsch, Ralph, to Kawai Musical Instrument Mfg. Co., Ltd. Harmon interpolation for producing time variant tones in an electronic mus cal instrument. 4,677,889, 7-7-87, Cl. 84-1.010.

Deutsch, Ralph, to Kawai Musical Instrument Mfg. Co., Ltd. Touc responsive musical tone generator. 4,679,478, 7-14-87, Cl. 84-1.10

Deutsch, Ralph, to Kawai Musical Instrument Mfg. Co., Ltd. Da reduction for a musical instrument using stored waveform 4,683,793, 8-4-87, Cl. 84-1.010.

Deutsch, Ralph, to Kawai Musical Instrument Mfg. Co., Ltd. Musica tone generator using incremental harmonic variation. 4,697,49 10-6-87, Cl. 84-1.010.

Deutsch, Ralph, to Kawai Musical Instrument Mfg. Co., Ltd. Funda mental frequency variation for a musical tone generator using stor waveforms. 4,702,142, 10-27-87, Cl. 84-1.010.

Deutsch, Ralph, to Kawai Musical Instrument Mfg. Co., Ltd. D mode musical tone generator using stored musical waveform 4,713,997, 12-22-87, Cl. 84-1.220.

Deutsch, Reinhard; Pohl, Klaus Jurgen; and Masuch, Gerhard Hauni-Werke Korber & Co. KG. Apparatus for testing cigaret packs and the like. 4,643,027, 2-17-87, Cl. 73-432.100.

Deutsch, Robert W., to Motorola, Inc. Oxygen sensor fault detect and response system. 4,671,243, 6-9-87, Cl. 123-489.000.

Deutsch, Robert W.: *See—*
  Martinsons, Robert; and Deutsch, Robert W., 4,704,685, C 364-431.110.
  Stocker, Herbert B.; and Deutsch, Robert W., 4,660,519, C 123-339.000.

Deutsch, Timothy A., to Deere & Company. Air system for a cotto harvester. 4,660,359, 4-28-87, Cl. 56-13.300.

Deutsch, Volker K.; and Roddeck, Werner F., to Karl Deutsch Pr und Messgeratebau GmbH & Co. KG. Method of and apparatus f layer thickness measurement. 4,695,797, 9-22-87, Cl. 324-230.000.

Deutschbein, Ulrich: *See—*
  Reil, Wilhelm; and Deutschbein, Ulrich, 4,713,048, Cl. 493-74.00

Deutsche AG fur Unterhaltungselectronic OHG: *See—*
  Erxleben, Tomas, 4,673,267, Cl. 352-242.000.

Deutsche Airbus GmbH: *See—*
  Krafka, Herfried, 4,642,997, Cl. 62-87.000.
  Krafka, Herfried, 4,651,955, Cl. 244-76.00C.

Deutsche Asphalt GmbH: *See—*
  Bruggemann, Horst, 4,705,404, Cl. 366-7.000.

Deutsche Automobilgesellschaft mbH: *See—*
  Klink, Rainer, 4,671,447, Cl. 228-50.000.
  Von Benda, Klaus; and Schneider, Claus, 4,687,719, C 429-234.000.

Deutsche Babcock Werke Aktiengesellschaft: *See—*
  Buchmuller, Horst; and Benninghoff, Helmut, 4,676,363, C 198-493.000.
  Bunthoff, Dirk; and Hildebrandt, Rainer, 4,660,768, C 239-423.000.
  Dibowski, Gunter; and Grommes, Helmut, 4,705,223, C 241-117.000.
  Kiefer, Dieter; and Grommes, Helmut, 4,674,693, Cl. 241-101.20
  Meier, Hans-Joachim; and Rafael, Aruth, 4,667,610, C 110-245.000.

Deutsche Filterbau GmbH: *See—*
  Roos, Hans, 4,692,173, Cl. 55-96.000.

Deutsche Forchungs- und Versuchsanstalt fur Luft- und Raumfahr e.V.: *See—*
  Schafer, Berthold, 4,712,748, Cl. 244-3.220.

Deutsche Forschungs: *See—*
  Schutze, Rainer, 4,652,171, Cl. 403-403.000.

Deutsche Forschungs- und Versuch-Sanstalt fur Luft- und Raumfahrt E.V.: *See—*
- Farago, Zoltan: and B schulte, Winfried, 4,692,319, Cl. 423-242.000.

Deutsche Forschungs- und Versuchsanstalt: *See—*
- Pszolla, Hartmut; Baumert, Werner; and Lorenz-Meyer, Wolfgang, 4,658,635, Cl. 73-147.000.

Deutsche Forschungs- und Versuchsanstalt fur Luft- und Raumfahrt e.V.: *See—*
- Arbter, Klaus, 4,677,568, Cl. 364-513.000.
- Birk, Josef; Baisch, Friedheim; and Borger, Heinz J., 4,691,695, Cl. 128-38.000.
- Freymann, Raymond, 4,675,805, Cl. 364-16[illegible].000.
- Grethe, Klaus; Eickhoff, Heinrich; Goller, Elmar; and H sen, Ralf, 4,698,014, Cl. 431-9.000.
- Hohlweck, Hans; Plath, Gernold; and Baisch, Friedhelm, 4,635,198, Cl. 364-414.000.
- Pabsch, Arno R. E. K., 4,700,647, Cl. 114-39.000.
- Pzsolla, Hartmut, 4,688,421, Cl. 73-147.000.
- Quast, Armin W.; and Horstmann, Karl H., 4,641,799, Cl. 244-207.000.
- Ries, Joachim; and Dorgeloh, K. Heinrich W., 4,710,809, Cl. 358-109.000.
- Rodloff, Rudiger K.; and Jungbluth, Werner W., 4,639,630, Cl. 310-328.000.
- Rodloff, Rudiger K.; Jungbluth, Werner W.; and Laschinski, Dieter H., 4,650,331, Cl. 356-350.000.
- Rodloff, Rudiger K.; and Jungbluth, Wemer W., 4,657,391, Cl. 356-350.000.
- Rodloff, Rudiger K.; and Jungbluth, Wemer W., 4,666,302, Cl. 356-350.000.
- Schafer, Berthold, 4,653,317, Cl. 73-147.000.
- Starker, Siegfried, 4,652,884, Cl. 342-357.000.
- Tank, Volker, 4,652,130, Cl. 356-346.000.
- Wolfmuller, Karlheinz, 4,655,392, Cl. 236-15.00E.
- Wulf, Rudolf; and Stager, Wolfgang, 4,638,632, Cl. 60-319.000.

Deutsche Gardner-Denver GmbH: *See—*
- Polzer, Bernhard; and Roemischer, Johann, 4,685,050, Cl. 364-152.000.

Deutsche Gesellschaft: *See—*
- Leister, Peter, 4,636,362, Cl. 422-105.000.
- Stritzke, Detlef, 4,638,134, Cl. 219-9.500.
- Stritzke, Detlef, 4,660,211, Cl. 373-36.000.

Deutsche Gesellschaft fur Wiederaufarbeitung von Kernbrennstoffen mbH: *See—*
- Ewest, Eckhart; Mertens, Gustav; and Straschewski, Helmut, 4,635,570, Cl. 110-237.000.
- Forster, Jurgen, 4,634,150, Cl. 285-24.000.
- Forster, Jurgen, 4,680,166, Cl. 422-159.000.
- Heimerl, Wilfried; and Ewest, Eckhart, 4,64[illegible],869, Cl. 376-272.000.
- Hendrich, Klaus; Haim, Horst; Blaseck, Klaus; and Hoffmeister, Lothar, 4,664,873, Cl. 376-260.000.
- Lahr, Helfrid; and Pontani, Bernd, 4,650,640, Cl. 376-261.000.
- Lahr, Helfrid; and Pontani, Bernd, 4,678,624, Cl. 376-261.000.
- Lahr, Helfrid; and Pontani, Bernd, 4,680,159, Cl. 376-272.000.
- Mischke, Joachim; and Schroder, Gunter, 4,702,663, Cl. 414-618.000.
- Potz, Franz; Popp, Franz-Wolfgang; and Oswald, Wolfgang, 4,657,154, Cl. 215-273.000.
- Schepers, Erwin, 4,690,29[illegible], Cl. 220-325.000.
- Schroder, Gunter; and Berning, Helmut, 4,638,234, Cl. 318-661.000.
- Schroder, Gunter; and Eichhhorn, Rudolf, 4,674,926, Cl. 408-40.000.
- Schroeder, Guenter; Dudek, Guenther; and Schrader, Heinolf, 4,673,814, Cl. 250-506.100.
- Stritzke, Detlef; and Ewest, Eckhart, 4,666,494, Cl. 65-32.000.

eutsche Gesellschat fur Wiederaufarbeitung von Kernbrennstoffen mbH: *See—*
- Heimerl, Wilfried; and Ewest, Eckhart, 4,690,781, Cl. 252-633.000.

eutsche ITT Industries GmbH: *See—*
- Freyberger, Laurin C.; and Schmidtpott, Friedrich, 4,672,428, Cl. 358-27.000.
- Freyberger, Laurin C., 4,691,226, Cl. 358-26.000.
- Gassmann, Gerhard G.; Schat, Hermannus; Elmis, Herbert; Novotny, Bernd; Kappeler, Otmar; and Ehrhardt, Dietmar, 4,710,814, Cl. 358-143.000.
- Gollinger, Wolfgang, 4,712,021, Cl. 307-355.000.
- Kappeler, Otmar, 4,683,444, Cl. 331-25.000.
- Mehrgardt, Soenke, 4,634,989, Cl. 329-112.000.
- Mehrgardt, Soenke; and Ehret, Bernhard, 4,663,595, Cl. 329-50.000.
- Mehrgardt, Soenke, 4,683,497, Cl. 358-166.000.
- Mehrgardt, Soenke, 4,694,325, Cl. 358-11.000.
- Mehrgardt, Soenke, 4,694,475, Cl. 377-48.000.
- Mehrgardt, Soenke, 4,706,040, Cl. 331-1.00A.
- Mehrgardt, Soenke, 4,709,270, Cl. 358-188.000.
- Mehrgardt, Soenke, 4,713,828, Cl. 375-30.000.
- Pfeifer, Heinrich; and Schweer, Rainer, 4,707,666, Cl. 329-110.000.
- Schroeer, Bernhard, 4,694,495, Cl. 381-15.000.
- Schweer, Rainer, 4,689,526, Cl. 315-371.000.

utsche Perrot-Bremse GmbH: *See—*
- Rupprecht, Bernd, 4,637,499, Cl. 188-79.50R.

itsche Texaco Aktiengesellschaft: *See—*
- Brandes, Gunter; Neier, Wilhelm; and Webers, Werner, 4,705,808, Cl. 521-30.000.
- Osterburg, Gunther; Gluzek, Karl-Heinz; and Neier, Wilhelm, 4,709,106, Cl. 568-917.000.

Deutsche Thomson-Brandt GmbH: *See—*
- Berland, Pierre-Axel; and Rufray, Jean-Claude, 4,686,432, Cl. 315-403.000.
- Geiger, Erich; and Kaaden, Jurgen, 4,642,707, Cl. 360-76.000.
- Geiger, Erich; and Maier, Gerhard, 4,689,825, Cl. 455-347.000.
- Gleim, Gunter; and Gyarmati, Sandor, 4,700,115, Cl. 318-254.000.
- Kluth, Hans-Jurgen, 4,654,726, Cl. 360-33.100.
- Kluth, Hans-Jurgen, 4,667,234, Cl. 358-166.000.
- Kuehn, Hans, 4,658,389, Cl. 369-45.000.
- Kuhn, Hans-Robert, 4,686,663, Cl. 369-46.000.
- Maier, Gerhard, 4,685,150, Cl. 455-183.000.
- Rilly, Gerard, 4,688,164, Cl. 363-98.000.
- Rilly, Gerard, 4,710,859, Cl. 363-21.000.
- Rodriguez, Jose-Ignacio; and Jung, Erich, 4,677,519, Cl. 361-101.000.
- Rufray, Jean-Claude; and Pery, Antoine, 4,661,844, Cl. 358-23.000.

Deutsche Vortex GmbH: *See—*
- Kuhl, Hans-Dieter; and Schmidt, Hans-Dieter, 4,714,484, Cl. 55-170.000.

Deutschenbaur, Paul; Rupprecht, Hans; Burtscher, Norbert; and Nigg, Berno, to Hilti Aktiengesellschaft. Tool holder for drilling and chiseling tools. 4,701,083, 10-20-87, Cl. 408-240.000.

Deutscher, Anneliese, heir: *See—*
- Franek, Henning; Broemer, Heinz; Deutscher, Klaus, deceased; and Schaefer, Roland, 4,714,721, Cl. 523-113.000.

Deutscher, Klaus, deceased: *See—*
- Franek, Henning; Broemer, Heinz; Deutscher, Klaus, deceased; and Schaefer, Roland, 4,714,721, Cl. 523-113.000.

Deutz-Allis Corporation: *See—*
- Busboom, Garry W.; and Breyer, Randall E., 4,662,812, Cl. 414-523.000.
- Busboom, Garry W., 4,684,068, Cl. 239-665.000.
- Huhman, Michael L., 4,672,981, Cl. 130-27.00R.
- Huhman, Michael L., 4,706,690, Cl. 130-27.00P.
- Murray, David L., 4,712,492, Cl. 111-88.000.
- Quick, David C.; McCormick, Stephen J.; and Ballendux, Gerardus M., 4,640,152, Cl. 74-767.000.
- Slosarek, Michael L.; and Wagner, Robert J., 4,648,311, Cl. 98-2.110.

Deux, Alain; Merant, Jean-Camille; Gibert, Francois; and Berger, Antoine, to Braud, Societe Anonyme; and Tecmachine, Societe Anonyme. Method for harvesting fruit, berries and the like, in particular for gathering grapes in whole bunches. 4,707,973, 11-24-87, Cl. 56-328.00R.

Dev, Harsh: *See—*
- Bridges, Jack E.; Dev, Harsh; Snow, Richard H.; and Taflove, Allen, 4,670,634, Cl. 219-10.410.

De Vaan, Adrianus J. S. M.: *See—*
- Van Sprang, Hendrik A.; and De Vaan, Adrianus J. S. M., 4,664,483, Cl. 350-346.000.

Devall, Jeffrey E.; and Reinke, Ronald E., to Borg-Warner Automotive, Inc. Vapor vent control valve. 4,679,580, 7-14-87, Cl. 137-39.000.

Devanathan, Deva: *See—*
- Scharnberg, Lorne C.; and Devanathan, Deva, 4,693,720, Cl. 623-11.000.

DeVane, Harry M. Sound attenuator. 4,667,770, 5-26-87, Cl. 181-280.000.

Devaney, Anthony J.; Oristaglio, Michael L.; and Wolf, Emil, to Schlumberger Technology Corporation. Compressional/shear wave separation in vertical seismic profiling. 4,648,039, 3-3-87, Cl. 364-421.000.

Devaney, Christopher M.; Martineau, Robert J.; Miles, John L.; and Wong, Theodore T. S., to United States of America, Air Force. Method for making semiconductor crystals. 4,634,493, 1-6-87, Cl. 156-616.00R.

DeVaney, David B.; Harper, Donald J.; and Short, Thomas D. Mobile telephone switching office. 4,698,839, 10-6-87, Cl. 379-60.000.

Devaney, Mark J.: *See—*
- Slater, Daniel A.; Meredith, William A.; and Devaney, Mark J., 4,710,352, Cl. 422-63.000.

Devaney, Walter E., to Boeing Company, The. Method for making graded I-III-VI$_2$ semiconductors and solar cell obtained thereby. 4,684,761, 8-4-87, Cl. 136-258.000.

Devanneaux, Jacques; Gallez, Jean-Paul; and Mariette, Laurent, to Compagnie Francaise de Raffinage. Catalyst for the hydrotreatment of hydrocarbon feedstocks. 4,677,093, 6-30-87, Cl. 502-220.000.

Devany, E. Paul: *See—*
- Copenhaver, Diane B.; Devany, E. Paul; and Hedgemon, LaBrose, 4,648,046, Cl. 364-518.000.

Devash, Yair. Inhibition of plant viruses with oligonucleotides. 4,654,326, 3-31-87, Cl. 514-47.000.

DeVaul, Richard L.; and Vaikness, Gerald P. Combination shooter's bench and gun carrying case. 4,702,029, 10-27-87, Cl. 42-94.000.

Devaux, Alain, to Societe d'Etudes de Machines Thermiques. Method and apparatus for regulating the temperature of the inside surface of internal combustion engine cylinder liners. 4,662,321, 5-5-87, Cl. 123-41.790.

Devaux, Albert F. L. G.; and Moniotte, Philippe G., to Monsanto Europe, S.A. Compounds useful as stabilizing agents for rubber vulcanizates. 4,657,956, 4-14-87, Cl. 524-105.000.

Devaux, Albert F. L. G.; and Moniotte, Philippe G., to Monsanto Europe, S.A. Sulphur-containing polymers useful as stabilizing agents for rubber vulcanizates. 4,665,155, 5-12-87, Cl. 528-299.000.

Devaux, Jacques J.: *See—*

Daoust, Daniel J. M.; Devaux, Jacques J.; Legras, Roger M.; Mercier, Jean P.; and Nield, Eric, 4,657,990, Cl. 525-471.000.

DeVeau, Emile J.: *See—*

Mead, James B.; Schwartz, Leonard; and DeVeau, Emile J., 4,644,360, Cl. 343-700.0MS.

Schwartz, Leonard; and DeVeau, Emile J., 4,654,668, Cl. 343-700.0MS.

DeVeau, George F., Jr.: *See—*

Aberson, James A., Jr.; DeVeau, George F., Jr.; Mathis, Terry D.; and Miller, Calvin M., 4,691,986, Cl. 350-96.210.

Devecchi, Daniele; and Torelli, Guido, to SGS Microelettronica S.p.A. Low offset voltage follower circuit. 4,714,845, 12-22-87, Cl. 307-496.000.

Develco: *See—*

Rorden, Louis H.; and Moore, Thomas C., 4,710,708, Cl. 324-207.000.

Develco, Incorporated: *See—*

Marsh, John L.; Fraser, Edward C.; Rorden, Louis H.; and Bauer, William H., 4,646,831, Cl. 166-242.000.

Develcon Electronics Ltd.: *See—*

Dodds, David E.; and Bertsch, Ludo, 4,677,646, Cl. 375-36.000.

Devello AB: *See—*

Jarund, Erik, 4,684,018, Cl. 206-306.000.

Develop Dr. Eisbein GmbH & Co.: *See—*

Schiemann, Roland; and Haas, Fritz, 4,671,649, Cl. 355-51.000.

Development Finance Corporation: *See—*

Parsonage, Peter C. J., 4,651,023, Cl. 307-117.000.

Wondergem, Anthony L., 4,695,101, Cl. 303-117.000.

Development Finance Corporation of New Zealand: *See—*

Parsonage, Peter C. J., 4,653,319, Cl. 73-181.000.

Sanders, Ernest D.; Sanders, Lawrence D.; and Sanders, Nigel D., 4,643,355, Cl. 239-2.100.

Scott, Gregory C., 4,672,719, Cl. 24-113.00R.

Weatherly, John D., 4,639,708, Cl. 336-200.000.

Development Finance Corporation of New Zealand, Limited: *See—*

Filmer, Alan M., 4,641,442, Cl. 40-219.000.

Devendorf, Don C.: *See—*

Gates, Louis E., Jr.; Kamensky, Albert; and Devendorf, Don C., 4,705,917, Cl. 174-52.0FP.

Devensky, Walter L.; and Martin, Wayne H., to Allied Corporation. Warning system for microwave landing system airborne receiver. 4,647,926, 3-3-87, Cl. 340-947.000.

Devensky, Walter L.: *See—*

Dube, Carlos M.; and Devensky, Walter L., 4,654,817, Cl. 364-900.000.

Dever, Gerald R.: *See—*

Bordoloi, Binoy K.; Ozari, Yehuda; and Dever, Gerald R., 4,714,655, Cl. 428-345.000.

DeVera, Freddie. Protective cover for snow ski bindings with carrying pouch. 4,674,787, 6-23-87, Cl. 294-147.000.

Devereux, Corinne: *See—*

Spillert, Charles R.; Devereux, Corinne; and Lazaro, Eric J., 4,661,478, Cl. 514-158.000.

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Vismara, Mario, 4,698,001, Cl. 425-4.00R.

Devic, Jean-Noel: *See—*

Courjaret, Francois; Del Fabbro, Gilbert; Devic, Jean-Noel; Divoux, Michel; Forella, Guy; Hamant, Jean-Pierre; Tubiana, Dominique; and Pavie, Claude, 4,701,094, Cl. 414-330.000.

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Gifford, Hanson S., III; and Simpson, John B., 4,669,469, Cl. 128-305.000.

DeVigili, Walter J. Ski braking device. 4,690,423, 9-1-87, Cl. 280-605.000.

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DeVilbiss, Warren C., to RCA Corporation. Method and apparatus for compacting and de-compacting text characters. 4,701,744, 10-20-87, Cl. 340-347.0DD.

de Villele, Hubert: *See—*

Fayard, Christian; de Villele, Hubert; and Gillet, Paul, 4,670,225, Cl. 422-203.000.

de Villepoix, Raymond: *See—*

Abbes, Claude; Rouaud, Christian; Valla, Jean; Forges, Robert; and de Villepoix, Raymond, 4,640,530, Cl. 285-18.000.

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Devine, Gregory P.: *See—*

Barbee, Steven G.; Devine, Gregory P.; Patrick, William J.; and Seeley, Gerard, 4,640,221, Cl. 118-689.000.

Devine, Millard J. Controlled descent apparatus. 4,653,609, 3-31-87, Cl. 182-238.000.

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Chiu, Ming-Yee; and Devinney, Edward J., Jr., 4,677,302, C 250-560.000.

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de Virel, Dufresne, to Thomson CSF. Self alignment device for a optical infrared image observation system. 4,707,736, 11-17-87, C 358-113.000.

DeVisser, Richard B.; and Hagerty, Sydney, to Dover Corporation Backwash apparatus for multi element filter unit. 4,642,188, 2-10-8 Cl. 210-333.100.

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DeVito, Ralph J.: *See—*

Hoffman, Louis S.; Bohmer, William; DeVito, Ralph J.; Langil Brian R.; Watkins, Richard D.; Sanders, Charles B.; Kerch Martha E.; and Shanko, Marc, 4,666,099, Cl. 242-55.530.

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Byrne, John V.; McMullin, Francis; Devitt, Francis; and O'Dwye Jeremiah, 4,670,696, Cl. 318-701.000.

Devitt, John L.: *See—*

Acklin, John R.; Bush, Lee W.; Danna, Joseph J.; Devitt, John L and Rauh, George A., 4,645,094, Cl. 222-52.000.

Devletian, Jack H., to Oregon Graduate Center. Composite met matrix welding. 4,672,164, 6-9-87, Cl. 219-96.000.

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Johnsen, John L.; Wood, William E.; Devletian, Jack H.; an Spring, Donald G., 4,708,282, Cl. 228-263.160.

Devlin, John P.; Hargrave, Karl D.; Barsumian, Edward L.; and Po sanza, Genus J., to Boehringer Ingelheim Pharmaceuticals, In Substituted phenylalkylhomopiperazinylpropyl(ureas or thioure useful for treatment of immulogical, inflammatory and allergic disor ders. 4,661,481, 4-28-87, Cl. 514-218.000.

Devlin, John P.; and Hargrave, Karl D., to Boehringer Ingelhe Pharmaceuticals, Inc. Bis(arylpiperazinyl)sulfur compoun 4,692,448, 9-8-87, Cl. 514-252.000.

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Holbein, Bruce E.; Brener, David; Greer, Charles; and Browne Eric N. C., 4,654,322, Cl. 502-403.000.

Devoke Co.: *See—*

Lowe, Gary M., 4,696,522, Cl. 312-297.000.

DeVolpi, Alexander, to United States of America, Energy. Monitoring system for a liquid-cooled nuclear fission reactor. 4,649,015, 3-10-8 Cl. 376-258.000.

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Beesley, Brian G.; Hurley, Clive; Brend, Ramon H. J.; Edwards Thomas P.; Sherrell, Robert W. D.; and Vickery, Andrew 4,677,909, Cl. 100-229.000.

Tomlinson, Martin; and Bramwell, Jonathan R., 4,700,363, C 375-37.000.

Devon Industries, Inc.: *See—*

Sandel, Dan; and Hoftman, Mike, 4,674,676, Cl. 229-142.000.

Devon, Thomas J.; Phillips, Gerald W.; Puckette, Thomas A Stavinoha, Jerome L.; and Vanderbilt, Jeffrey J., to Eastman Kod Company. Chelate ligands for low pressure hydroformylation ca lyst and process employing same. 4,694,109, 9-15-87, Cl. 568-454.00

Devona, James E.: *See—*

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Devonald, David P.; Nelson, Anthony J.; Quan, Peter M.; and Stewar David, to Imperial Chemical Industries PLC. Process for the extra tion of metal values with bisimidazole metal extractants. 4,696,8 9-29-87, Cl. 423-24.000.

DeVore, Dale P.; Scherrer, Robert A.; and Scholz, Matthew T., Minnesota Mining and Manufacturing Company. Viscoelastic coll gen solution for ophthalmic use and method of preparation. 4,713,4 12-15-87, Cl. 530-356.000.

DeVore, Frank C.; and Argudo, Marcos A., to Tri Plas, Inc. Tamp indicator for use with a reclosable container assembly. 4,682,70 7-28-87, Cl. 220-276.000.

Devos, Andre ; Gourlia, Jean P.; and Paradowski, Henri, to Societe Nationale Elf Aquitaine. Process for distillation of petroleum by progressive separations. 4,664,785, 5-12-87, Cl. 208-354.000.

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DeVos, Jerry, to Atara Corporation. Digester tank with foam control cover. 4,710,292, 12-1-87, Cl. 210-218.000.

Devos, Michel: *See—*

Sicard, Claude; Kroczynski, Patrice; Gallard, Herve; Mars, Denis; and Devos, Michel, 4,697,239, Cl. 364-468.000.

Devoucoux, Pierre: *See—*

Foucher, Jean-Claude; and Devoucoux, Pierre, 4,697,634, Cl. 165-76.000.

Devoy, James M., to Eastman Kodak Company. Apparatus for producing interleaved copy sheets. 4,681,428, 7-21-87, Cl. 355-3.0SH.

Devrient, Ludwig: *See—*

Maurer, Thomas; and Devrient, Ludwig, 4,672,891, Cl. 101-32.000.

de Vries, Franciscus J. M.: *See—*

van Waalwijk van Doorn, Ernst S. C.; de Vries, Joseph D. M.; and de Vries, Franciscus J. M., 4,679,546, Cl. 128-1.00R.

de Vries, Gerhard: *See—*

Gerloff, Klaus; Menell, Hans; Bark, Ludolf; Klopper, Friedrich; and de Vries, Gerhard, 4,666,392, Cl. 425-190.000.

Schallmeier, Gunter; and de Vries, Gerhard, 4,698,245, Cl. 428-37.000.

de Vries, Gerrit; Leuveld, Jozef G. M.; and Kleijn, Johan W., to Cordis Corporation. Implantable hand-operable dispensers for fluid medicaments. 4,668,231, 5-26-87, Cl. 604-891.000.

de Vries, Hugo V.: *See—*

van Elten, Gerrit J.; Hurkmans, Antonius; and de Vries, Hugo V., 4,712,964, Cl. 414-281.000.

DeVries, James H., to Baxter Travenol Laboratories, Inc. Blood processing assembly including a prepackaged fluid circuit module. 4,637,813, 1-20-87, Cl. 604-6.000.

de Vries, Jan: *See—*

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DeVries, Joseph. Board game matching numbered sides of rectangular pieces. 4,659,085, 4-21-87, Cl. 273-236.000.

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De Vrieze, Henricus M.: *See—*

Khoe, Giok D.; Poulissen, Josephus H. F. M.; and De Vrieze, Henricus M., 4,671,609, Cl. 350-96.180.

Khoe, Giok D.; and De Vrieze, Henricus M., 4,692,208, Cl. 156-659.100.

Devro, Inc.: *See—*

Wakefield, Barry R.; and Pullen, Francis J., 4,689,854, Cl. 17-1.00R.

Devron Engineering Ltd.: *See—*

Passiniemi, Eric, 4,651,981, Cl. 267-162.000.

DeVroom, William A.: *See—*

Diamond, Harvey E.; and DeVroom, William A., 4,676,894, Cl. 210-167.000.

Dew, Douglas, to Sonomo Corporation. Laser healing method. 4,672,969, 6-16-87, Cl. 128-397.000.

ewa, Koichi: *See—*

Banno, Haruhiko; and Dewa, Koichi, 4,644,418, Cl. 360-39.000.

e Waard, Peter J.: *See—*

De Poorter, Johannes A.; De Waard, Peter J.; Tijburg, Rudolf P.; and Dinghs, Gerardus L., 4,670,966, Cl. 29-569.00L.

eWalch, Norman B. Frangible seal. 4,685,317, 8-11-87, Cl. 70-440.000.

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Dewald, Horace A.; Wise, Lawrence D.; and Heffner, Thomas G., to Warner-Lambert Company. Aminoalkoxybenzopyranones as antipsychotic and anxiolytic agents. 4,701,456, 10-20-87, Cl. 514-253.000.

DeWald, Horace A.: *See—*

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Dewar, Robert; Salinger, Jeremy; Waldecker, Thomas J.; and Barlow, Neil E., to Perceptron, Inc. Sensor-illumination system for use in three-dimensional measurement of objects and assemblies of objects. 4,645,348, 2-24-87, Cl. 356-376.000.

De Weck, Lionel M., to Advanced Micro Devices, Inc. High-speed full differential amplifier with common mode rejection. 4,667,165, 5-19-87, Cl. 330-253.000.

De Weck, Lionel M., to Advanced Micro Devices, Inc. High speed operational amplifier. 4,668,919, 5-26-87, Cl. 330-253.000.

De Weck, Lionel M., to Advanced Micro Devices, Inc. High speed comparator having controlled hysteresis. 4,670,671, 6-2-87, Cl. 307-355.000.

Dewees, James A., to Cerebral Palsy Research Foundation of Kansas, Inc. Ankle and lower leg exerciser for proprioceptive rehabilitation. 4,635,932, 1-13-87, Cl. 272-96.000.

Deweese, Richard A., to University of Tennessee Research Corporation. Device for handling and storage of extension cords and the like. 4,687,154, 8-18-87, Cl. 242-96.000.

Dewert, Heribert: *See—*

Holter, Heinz; Igelbuscher, Heinrich; Gresch, Heinrich; and Dewert, Heribert, 4,670,234, Cl. 423-235.000.

Dewey, Charles H.: *See—*

Furse, John H.; Desai, Praful C.; and Dewey, Charles H., 4,660,657, Cl. 175-269.000.

Furse, John H.; Desai, Praful C.; and Dewey, Charles H., 4,693,328, Cl. 175-273.000.

Dewey, Dave, to Unerman Greenman Berger Limited. Knock-down fittings. 4,634,309, 1-6-87, Cl. 403-407.100.

Dewey, David A.; and Pynckel, Paul C., to CooperVision, Inc. Ophthalmic beam director. 4,686,992, 8-18-87, Cl. 128-303.100.

Dewey Electronics Corporation, The: *See—*

Doman, D. Mark; and Moss, William R., 4,682,729, Cl. 239-2.200.

Dewey, James D.; Pedersen, Matthew G.; and Gonier, Larry W., to ADC Telecommunications, Inc. Insertion tool tips. 4,663,838, 5-12-87, Cl. 29-751.000.

Dewey, Loren G., to Amdahl Corporation. Error tracking apparatus in a data processing system. 4,679,195, 7-7-87, Cl. 371-29.000.

Dewey, Pamela H.: *See—*

Brelsford, David P.; Cerutti, Daniel D.; Coleman, Leslie S.; Davison, Gerald A.; Dewey, Pamela H.; Enichen, Margaret C.; Hartley, Sarah T.; Malinowski, Paul A.; Rogers, Roger W.; Tallman, Peter H.; and Wilczak, Lynn A., 4,674,038, Cl. 364-200.000.

Dewez, Vincent: *See—*

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DewEze Manufacturing, Inc.: *See—*

Forpahl, Raye E.; Hostetler, Dewey L.; and Hostetler, Delmar G., 4,707,971, Cl. 56-6.000.

Dewhirst, Donald R., and Duvall, Robert L., III, to Hughes Aircraft Company. CO_2 TEA laser utilizing an intra-cavity prism Q-switch. 4,660,204, 4-21-87, Cl. 372-16.000.

Dewhirst, Donald R.: *See—*

Franklin, James D.; and Dewhirst, Donald R., 4,656,433, Cl. 330-4.300.

Dewhirst, Keith, to Spirax Sarco Limited. Thermostatic steam traps. 4,681,256, 7-21-87, Cl. 236-56.000.

Dewhurst, Henry S.: *See—*

Kormos, Donald W.; Yeung, Hong-Ning; and Dewhurst, Henry S., 4,661,775, Cl. 324-307.000.

Dewilde, Carl: *See—*

Segal, Henry P.; and Dewilde, Carl, 4,685,101, Cl. 370-84.000.

DeWilde, Carl A.: *See—*

Segal, Henry P.; and DeWilde, Carl A., 4,697,262, Cl. 370-84.000.

De Wilde, Johannes; and van Den Hoek, Willibrordus G. M., to U.S. Philips Corporation. Method of manufacturing a sensor having a magnetic field sensitive element. 4,666,554, 5-19-87, Cl. 156-643.000.

De Wilde, Michel: *See—*

Harford, Nigel; and De Wilde, Michel, 4,666,837, Cl. 435-68.000.

Dewing, Ernest W., to Alcan International Limited. Aluminium electrolytic reduction cell linings. 4,647,357, 3-3-87, Cl. 204-243.00R.

Dewing, Ernest W.; and Reesor, Douglas N., to Alcan International Limited. Method of producing aluminum. 4,668,351, 5-26-87, Cl. 204-67.000.

Dewing, John; Hogan, Philip J.; and Stewart, Allan, to Imperial Chemical Industries PLC. Toluene disproportionation with a surface dealuminated zeolite. 4,677,239, 6-30-87, Cl. 585-475.000.

de Winter, Walter: *See—*

Podszun, Wolfgang; Goossens, John; Suling, Carlhans; Hoffarth, Gunther; Richter, Wolfgang; Uytterhoeven, Herman; and de Winter, Walter, 4,639,403, Cl. 430-115.000.

De Winter, Walter F.: *See—*

Uytterhoeven, Herman J.; De Winter, Walter F.; and Marien, August M., 4,639,404, Cl. 430-115.000.

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DeWit, Cornelis L. Discharge installation for a silo. 4,645,403, 2-24-87, Cl. 414-317.000.

De Wit, Hendrik J.; Brouha, Marcel; Enz, Ulrich E.; Jager, Kornelis; Van Der Borst, Albertus J. C.; and Turk, Gijsbertus W., to U.S.

Philips Corporation. Magnetic head with anisotropy in plane of core ports. 4,665,012, 8-4-87, Cl. 360-125.000.

De Wit, Jan B., to Nederlandse Centrale Organisatie Voor Toegepast-Natuurwetenschappelijk Onderzoek. Apparatus for adjusting a central heating installation. 4,708,287, 11-24-87, Cl. 237-8.00R.

de Wit, Paulus A. J.; and Bouma, Jitze. Apparatus for preventing shoats from being crushed to death in hog breeding operations and the use thereof as a device for indicating the start of the dam's birthing procedure. 4,651,677, 3-24-87, Cl. 119-20.000.

de With, Gijsbertus: *See—*
  Damen, Johannes P. M.; Prijs, Klaas; Witmer, Cornelis H. M.; and de With, Gijsbertus, 4,665,612, Cl. 29-603.000.

DeWitt, Carl; and Fink, Gerald A. Mowing apparatus. 4,697,405, 10-6-87, Cl. 56-10.400.

Dewitt-Dick, Doug B.: *See—*
  Thomas, Peter A.; and Dewitt-Dick, Doug B., 4,670,236, Cl. 423-242.000.

DeWitt, Elmer J.: *See—*
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  Li, George S.; Wu, Muyen M.; and DeWitt, Elmer J., 4,677,164, Cl. 525-210.000.
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DeWitt, Glen A., III. Breakaway surfboard fin holder. 4,701,144, 10-20-87, Cl. 441-79.000.

DeWitt, Gregory L.; and Huber, Dennis J., to Combustion Engineering, Inc. Magnetic induced heating for ferritic metal annealing. 4,652,423, 3-24-87, Cl. 376-277.000.

DeWitt, Gregory S.; Driscoll, John J.; and Shepherd, John L., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Switching system control arrangements. 4,688,214, 8-18-87, Cl. 370-94.000.

DeWitt, Nicklas R., to X-Ten Corporation. Chassis with telescoping articulated stinger. 4,660,848, 4-28-87, Cl. 280-404.000.

DeWitt, Susanne K.: *See—*
  Loor, Rueyming; M'Timkulu, Thabiso; and DeWitt, Susanne K., 4,690,890, Cl. 435-7.000.

De Witt, Thomas. Range finding by diffraction. 4,678,324, 7-7-87, Cl. 356-45.000.

DeWitt, William J.: *See—*
  Shepherd, Lawrence H., Jr.; DeWitt, William J.; and Kuehnhanss, Gerhard O., 4,643,253, Cl. 166-274.000.

Dewitte, Elisabeth: *See—*
  Manoury, Philippe; Binet, Jean; and Dewitte, Elisabeth, 4,680,296, Cl. 514-259.000.

Dewitz, Thomas S., to Shell Oil Company. Downflow fluidized catalytic cranking reactor process and apparatus with quick catalyst separation means in the bottom thereof. 4,693,808, 9-15-87, Cl. 208-113.000.

Dewitz, Thomas S.: *See—*
  Parker, Wesley A.; Dewitz, Thomas S.; Hinds, George P., Jr.; Gwyn, John E.; Bilgic, A. Haluk; and Hardesty, Donald E., 4,692,311, Cl. 422-144.000.

DeWoskin, Irvin S., to Barnhart Industries, Inc. Fasteners for apparel and methods of manufacturing them. 4,633,565, 1-6-87, Cl. 29-417.000.

Dexheimer, Edward M.; and Thir, Basil, to BASF Corporation. Polymer composition. 4,689,082, 8-25-87, Cl. 106-38.220.

Dexheimer, Edward M., to BASF Corporation. Heat transfer fluids having improved thermal stability. 4,699,727, 10-13-87, Cl. 252-77.000.

Dexheimer, Edward M., to BASF Corporation. Polyoxyalkylene spin finish lubricants having low coefficients of friction. 4,702,741, 10-27-87, Cl. 8-115.600.

Dexide, Inc.: *See—*
  Allgood, Fred A., 4,668,215, Cl. 604-30.000.

Dexling, Hartmut: *See—*
  Roos, Gerhard; Dexling, Hartmut; and Michael, Wolfgang, 4,712,412, Cl. 72-345.000.

Dextec Metallurgical Pty. Ltd.: *See—*
  Everett, Peter K., 4,639,302, Cl. 204-258.000.
  Everett, Peter K., 4,684,450, Cl. 204-118.000.

Dexter Corporation, The: *See—*
  Kenworthy, Ian C.; Gettins, Robert B.; Logan, Peter W.; Jeambar, Patrick; and Vuillaume, Andre, 4,666,390, Cl. 425-86.000.

Dexter Lock Company: *See—*
  Marotto, Robert A.; Kemp, Vincent M.; and Holmes, Henry A., Jr., 4,671,549, Cl. 292-333.000.

Dexter, Martin, to Ciba-Geigy Corporation. Stabilized olefin polymer insulating compositions. 4,689,362, 8-25-87, Cl. 524-266.000.

Dextraze, Raymond E.: *See—*
  Gardner, Terry N.; Brekke, James N.; Krolikowski, Lawrence P.; and Dextraze, Raymond E., 4,657,116, Cl. 187-1.00R.

Deyerle, William M. Femoral shaft surgical rasp for use in hip prosthesis surgery. 4,671,275, 6-9-87, Cl. 128-305.000.

Deyhle, Henning; and Grisar, Alexander, to Greisar, Alexander. Process for the disposal of combustible refuses. 4,678,514, 7-7-87, Cl. 106-100.000.

DeYoe, Jay, to HIS, Inc. Float mattress. 4,693,691, 9-15-87, Cl. 441-129.000.

De Yoreo, Sal G.: *See—*
  Conigliaro, Anthony; St. Hilaire, Arthur; and De Yoreo, Sal G., 4,682,740, Cl. 241-282.100.

DeYoung, Thomas W., to Exxon Printing Systems, Inc. Melt ink apparatus with means and method for repriming. 4,658,274, 4-14- Cl. 346-140.00R.

DeYoung, Thomas W. Ink jet apparatus and method of operating ink jet apparatus wherein phase change ink is supplied in solid-sta form. 4,667,206, 5-19-87, Cl. 346-1.100.

Deysarkar, Asoke K.; and Allen, James D., to Pennzoil Compan Support and centering attachments for sensitive viscomete 4,648,263, 3-10-87, Cl. 73-59.000.

De Zarate, Luis C. O., to Sammic, S.A. Highly reliable juice extracto 4,706,559, 11-17-87, Cl. 99-504.000.

De Zolt, Ivano: *See—*
  Casanova, Giuseppe; and De Zolt, Ivano, 4,635,447, Cl. 62-448.0

DFC New Zealand Limited: *See—*
  Buckle, Ian G.; and Michael, John P., 4,713,917, Cl. 52-167.00

DG Shelter Products: *See—*
  Cope, Carroll W., 4,638,022, Cl. 524-15.000.

DH Technology, Inc.: *See—*
  Hebert, Donald G., 4,640,633, Cl. 400-124.000.

Dhainaut, Andre: *See—*
  d'Agostino, Guy; Dhainaut, Andre; Kettler, Daniel G. A.; a Leclerc, Henry R., 4,681,327, Cl. 277-29.000.

Dharia, Vijay M.: *See—*
  Friend, Kenneth D.; and Dharia, Vijay M., 4,634,855, 250-222.100.

Dhawan, Satish K. Electrostatic pattern-coupled digitizer. 4,705,9 11-10-87, Cl. 178-19.000.

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  Meier, Helmut-Martin; Dhein, Rolf; Winkel, Jens; Klein, Gerha and Kloker, Werner, 4,634,791, Cl. 560-163.000.
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  Meyer, Rolf-Volker; Fahnler, Friedrich; Dhein, Rolf; and Micha Dietrich, 4,684,746, Cl. 564-38.000.
  von Bittera, Miklos; Meyer, Rolf-Volker; and Dhein, R 4,661,104, Cl. 604-896.000.

D'Hervilly, Guy: *See—*
  de la Salle, Christian; and D'Hervilly, Guy, 4,679,169, 364-900.000.

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Dhillon, Major S.: *See—*
  Walls, John E.; Tellechea, Carlos; and Dhillon, Major S., 4,652,6 Cl. 522-63.000.
  Walls, John E.; Dhillon, Major S.; and Koletar, Gabor I., 4,665,1 Cl. 525-61.000.
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Dhuyvetter, Timothy A., to Signetics Corporation. Temperature process variation compensation for a delta demodulation deco 4,684,898, 8-4-87, Cl. 329-104.000.

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  Dishner, Bryan W.; Juarros, Richard D.; and Dhyanchand, John, 4,692,671, Cl. 318-11.000.
  Dishner, Bryan W.; Juarros, Richard D.; and Dhyanchand, John, 4,695,776, Cl. 318-14.000.
  Nguyen, Vietson M.; Dhyanchand, P. John; and Thollot, Pierre 4,651,267, Cl. 363-56.000.
  Nguyen, Vietson M.; and Dhyanchand, P. John, 4,694,383, 363-17.000.
  Nguyen, Vietson M.; Dhyanchand, P. John; and Thollot, Pie 4,695,933, Cl. 363-17.000.
  Shekhawat, Sampat S.; Dhyanchand, P. John; and Thollot, Pie 4,635,177, Cl. 363-41.000.
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  - Ishiwata, Seihei, 4,670,330, Cl. 428-290.000.
- DIA Vacuum Bottle Industrial Co., Ltd.: *See—*
  - Simasaki, Masuo, 4,676,411, Cl. 222-517.000.
- Diacon, Inc.: *See—*
  - Frampton, Tom J., 4,651,415, Cl. 29-827.000.
- Diaconu, Cristian: *See—*
  - Axinti, Gavril; Arama, Stefanica; Draghici, Ionel; Bratu, Polidor; Stanciu, Corneliu; Ghinea, Aurelian; Badulescu, Florin; and Diaconu, Cristian, 4,688,468, Cl. 91-317.000.
- Diafoil Company, Limited: *See—*
  - Kanesaki, Tateo; Utsumi, Shigeo; and Tomitaka, Kichinojyo, 4,680,217, Cl. 428-141.000.
  - Utsumi, Shigeo; Tomitaka, Kichinojyo; and Fukuda, Yujiro, 4,677,188, Cl. 528-272.000.
  - Utsumi, Shigeo; Kanesaki, Tateo; Kagiyama, Takashi; Otonari, Satoshi; Ikushima, Koichiro; and Okumura, Norio, 4,708,902, Cl. 428-141.000.
- Diagnospine Research Inc.: *See—*
  - Gracovetsky, Serge, 4,655,227, Cl. 128-781.000.
  - Gracovetsky, Serge, 4,664,130, Cl. 128-781.000.
  - Gracovetsky, Serge, 4,699,156, Cl. 128-781.000.
- Diagnostic Research Limited Partnership: *See—*
  - Scholl, David R.; and Jollick, Joseph D., 4,652,517, Cl. 435-5.000.
- Diakin Kogyo Co., Ltd.: *See—*
  - Yamashita, Hiroshi; Fujii, Kanenaga; Hayakawa, Junji; Komiyama, Toru; and Tamaru, Sinji, 4,673,243, Cl. 350-96.150.
- Dial, James R.: *See—*
  - Batterman, Cynthia K.; Augustine, Michael E.; and Dial, James R., 4,676,991, Cl. 426-658.000.
- Dial, Larry A.: *See—*
  - Beining, August H.; Dial, Larry A.; Smith, William A.; and Rieck, Gene W., 4,695,827, Cl. 340-365.00P.
- Dialogic Systems Corp.: *See—*
  - Sheafor, Stephen J.; and Weng, Ken K. S., 4,649,384, Cl. 340-825.030.
- Diamalt Aktiengesellschaft: *See—*
  - Bayerlein, Friedrich; Kuhn, Manfred; and Maton, Michel, 4,661,475, Cl. 514-54.000.
- Diamantoglou, Michael; Magerlein, Helmut; Brodowski, Walter; Grimm, Wolfgang; and Meyer, Gerhard, to Akzona Incorporated. Hydrophilic polyester compounds. 4,708,985, 11-24-87, Cl. 525-166.000.
- Diamantoglou, Michael: *See—*
  - Baurmeister, Ulrich; Brodowski, Walter; Diamantoglou, Michael; Dunweg, Gustav; Henne, Werner; Pelger, Michael; and Schulze, Helmut, 4,668,396, Cl. 210-500.290.
- Diamedix Corporation: *See—*
  - Halbert, Seymour P.; and Anken, Milton, 4,642,285, Cl. 435-7.000.
- Diamond, Ana H.: *See—*
  - Hendry, Lawrence B.; Diamond, Ana H.; Diamond, Bruce I.; and Ewing, Douglas E., 4,705,796, Cl. 514-328.000.
- Diamond, Anthony E., to Teleplex Corporation. Addressable port telemetry system. 4,636,790, 1-13-87, Cl. 340-825.520.
- Diamond, Arthur S.: *See—*
  - Hightower, Richard L., 4,665,823, Cl. 101-232.000.
  - Meadows, Louis B.; and Diamond, Arthur S., 4,699,077, Cl. 118-31.500.
- Diamond, Betty A., to Albert Einstein College of Medicine of Yeshiva University. Method for removal of human antibodies to native DNA from serum. 4,690,905, 9-1-87, Cl. 436-508.000.
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- Diamond, Bruce I.: *See—*
  - Hendry, Lawrence B.; Diamond, Ana H.; Diamond, Bruce I.; and Ewing, Douglas E., 4,705,796, Cl. 514-328.000.
- Diamond Die & Mold Co.: *See—*
  - Baldyga, Joseph, 4,654,952, Cl. 29-566.200.
- Diamond, Gary. Robotic device. 4,683,773, 8-4-87, Cl. 74-479.000.
- Diamond, Gary C. Combinate polyhedra. 4,682,450, 7-28-87, Cl. 52-81.000.
- Diamond, George B. Expandable pressurized barrier container. 4,641,765, 2-10-87, Cl. 222-386.500.
- Diamond, George B.; and Helmrich, Ralph H., to Diamond, George B. Launchable aerosol grenade. 4,667,601, 5-26-87, Cl. 102-368.000.
- Diamond, Harvey E. Water massager means. 4,635,619, 1-13-87, Cl. 128-39.000.
- Diamond, Harvey E. Remote manual actuator means for a pressure-switch operated device such as a water pump in a whirlpool bath system, and the like. 4,647,738, 3-3-87, Cl. 200-81.00H.
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- Diamond, Israel, to Merchandising Display Corporation. Magnetic sign mount. 4,703,575, 11-3-87, Cl. 40-600.000.
- Diamond, John E.: *See—*
  - Barnes, John R.; Diamond, John E.; and Griffin, Graham J., 4,678,147, Cl. 248-74.100.
- Diamond, Julius, to Berlex Laboratories, Inc. Dobutamine tri-isobutyric acid ester and the use thereof as a cardiotonic agent. 4,663,351, 5-5-87, Cl. 514-548.000.
- Diamond, Julius; Lumma, William C., Jr.; Morgan, Thomas K., Jr.; and Wohl, Ronald A., to Schering A.G. Antiarrhythmic imidazoles. 4,689,341, 8-25-87, Cl. 514-399.000.
- Diamond Oil Well Drilling Company: *See—*
  - Park, Arthur; and Wilson, Bob T., 4,638,872, Cl. 175-46.000.
- Diamond, Peter. Airplane safety body passenger compartment. 4,699,336, 10-13-87, Cl. 244-140.000.
- Diamond Publishing: *See—*
  - Engel, James E.; and Diamond, Sidney, 4,714,275, Cl. 281-15.00R.
- Diamond Shamrock Chemicals Company: *See—*
  - Bardoliwalla, Dinshaw F.; and Villa, Jose L., 4,647,384, Cl. 252-8.510.
  - Bardoliwalla, Dinshaw F., 4,699,225, Cl. 175-72.000.
  - Garvey, Christopher M.; Savoly, Arpad; and Weatherford, Thomas M., 4,711,731, Cl. 252-8.514.
  - Harada, Kaoru; Shimoyama, Akira; and Mizumoto, Hiroji, 4,696,981, Cl. 525-328.200.
  - Hill, John A.; and Flynn, Gregory J., 4,659,489, Cl. 252-40.500.
  - Hill, John A.; and Flynn, Gregory J., 4,676,836, Cl. 106-243.000.
  - Lipowski, Stanley A.; Villa, Jose L.; Miskel, John J., Jr.; and Grinstein, Reuben H., 4,634,451, Cl. 44-51.000.
  - Maloney, James F.; Freis, Richard E.; and Oakes, Thomas R., 4,643,800, Cl. 162-5.000.
  - Savoly, Arpad; Villa, Jose L.; Garvey, Christopher M.; and Resnick, Albert L., 4,674,574, Cl. 166-293.000.
- Diamond, Sidney: *See—*
  - Engel, James E.; and Diamond, Sidney, 4,714,275, Cl. 281-15.00R.
- Diamond Straw Incorporated: *See—*
  - Brunner, Donald W., 4,658,984, Cl. 221-64.000.
- Diana, Silvio. Monolithic surface ornamentation of pre-cast reinforced concrete wall. 4,665,673, 5-19-87, Cl. 52-314.000.
- DiAnalog Systems, Inc.: *See—*
  - Leale, Luis O., 4,667,132, Cl. 315-282.000.
  - Zarate, Humberto T., 4,694,890, Cl. 165-12.000.
- Dianis, William P.; and Williams, Alan J., to Dow Chemical Company, The. Alkylation of aromatic mixtures. 4,665,256, 5-12-87, Cl. 585-467.000.
- Dianis, William P., to Dow Chemical Company, The. Phosphorus modified magnesium silicate. 4,668,837, 5-26-87, Cl. 585-466.000.
- Dianne Eastman Revocable Trust: *See—*
  - Eastman, Dianne, 4,681,574, Cl. 604-344.000.
- Dianon Systems, Inc.: *See—*
  - Katopodis, Nonda, 4,701,418, Cl. 436-64.000.
- DiAntonio, Francis W.: *See—*
  - Parrow, R. Alan; and DiAntonio, Francis W., 4,682,796, Cl. 285-39.000.
- Di Aragona, Antonio B., to Fiat Auto S.p.A. Drive device of variable transmission ratio, particularly for operating an internal combustion engine supercharger. 4,671,137, 6-9-87, Cl. 74-794.000.
- Dias, Daniel M.; Kumar, Manoj; Lien, Yeong-Chang L.; and Maruyama, Kiyoshi, to International Business Machines Corporation. Distributed voice-data switching on multi-stage interconnection networks. 4,679,190, 7-7-87, Cl. 370-60.000.
- Dias, Donald R.; and Antaki, Patrick R., to Thomson Components - Mostek Corporation. Non-volatile memory cell. 4,651,303, 3-17-87, Cl. 365-185.000.
- Dias dos Santos, Danilo A., to Britanite Industrias Quimicas Ltda. Percussion or impact wave conductor unit. 4,660,474, 4-28-87, Cl. 102-275.800.
- Diasonics, Inc.: *See—*
  - Birchall, James C., 4,684,894, Cl. 3[illegible]4-318.000.
  - Boner, James C.; Berger, Mitchel S.; and Fine, Marc, 4,681,103, Cl. 128-303.00B.
- Diatec Polymers: *See—*
  - Sortwell, Edwin T., 4,640,622, Cl. 366-76.000.
- Diaz, Alberto O. Child's bootlet with separable front and rear portions. 4,665,634, 5-19-87, Cl. 36-112.000.
- Diaz, Arthur F.; and Hernandez, Richard A., to International Business Machines Corporation. Coatings for ink jet nozzles. 4,643,948, 2-17-87, Cl. 428-422.000.
- Diaz, Eusebio M. Automatic transmission rebuilding tool. 4,635,334, 1-13-87, Cl. 29-226.000.
- Diaz, Eusebio M. Transmission clutch housing removal tool set. 4,656,715, 4-14-87, Cl. 29-259.000.
- Diaz, Joseph; Demarne, Henri; Roncucci, Romeo; and Schmelck, Paul-Henry, to Sanofi. Synthesis of hpGRF(Somatocrinin) in liquid phase and intermediate peptides. 4,704,450, 11-3-87, Cl. 530-324.000.
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- Diaz, Manuel, to Fluid Packaging Company, Inc. Apparatus for improving the surface characteristics of waxy materials. 4,634,368, 1-6-87, Cl. 425-453.000.
- Diaz, Manuel, to Fluid Packaging Company, Inc. System including nozzle for injecting molten product into deodorant stick containers. 4,688,609, 8-25-87, Cl. 141-82.000.
- Diaz-Noriega, Jose M. Miniature plug in fuse. 4,682,140, 7-21-87, Cl. 337-260.000.
- Diaz, Rafael: *See—*
  - Arregui, Manuel; Diaz, Rafael; Gamon, Vicente; and Yarza, Javier, 4,645,428, Cl. 417-273.000.
- Diaz, Stephen H.; Debbaut, Christian A. M.; Humphries, William H.; Lawrence, Alvah A.; Ragland, Glen W.; and Shimirak, Gerald L., to Raychem Corporation. Protection of cable splice. 4,648,919, 3-10-87, Cl. 156-48.000.
- Diaz, Stephen H.: *See—*
  - Allen, Leslie J.; Cherian, Gabe; and Diaz, Stephen H., 4,664,309, Cl. 228-180.200.

Allen, Leslie J.; Cherian, Gabe; and Diaz, Stephen H., 4,705,205, Cl. 228-180.200.

Diaz, Zaida; and Miller, James H., to Shell Oil Company. Glycerine purification process. 4,683,347, 7-28-87, Cl. 568-869.000.

Diaz, Zaida: *See—*

Fong, Howard L.; Diaz, Zaida; and Blytas, George C., 4,664,902, Cl. 423-567.00A.

Fong, Howard L.; Diaz, Zaida; and Blytas, George C., 4,705,676, Cl. 423-567.00A.

Diazzi, Claudio: *See—*

Cini, Carlo; Diazzi, Claudio; and Erratico, Pietro, 4,672,326, Cl 330-254.000.

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Dibb, Terence L. Pool cleaner. 4,649,589, 3-17-87, Cl. 15-1.700.

Dibbern, John E., Jr.; and Moores, Gregory E., to Black & Decker Inc. Electrical contacts for a switch. 4,684,774, 8-4-87, Cl. 200-275.000.

Dibble, John T.; Deever, William R.; Parcell, Lloyd J.; and White, Rudolph C., to Texaco Inc. High rate sludge reactor. 4,668,388, 5-26-87, Cl. 210-150.000.

Dibbler, Inc.: *See—*

Topham, Arnold J.; and Wilson, Harry W., 4,637,328, Cl 111-89.000.

DiBenedetto, John P.: *See—*

Krasner, Jerome L.; and DiBenedetto, John P., 4,676,228, Cl. 128-4.000.

Di Benedetto, Orazio: *See—*

Cucinotta, Luigi; and Di Benedetto, Orazio, 4,709,797, Cl. 192-106.200.

DiBianca, Frank A., to University of North Carolina at Chapel Hill. Kinestatic charge detection using synchronous displacement of detecting device. 4,707,608, 11-17-87, Cl. 250-389.000.

DiBiase, Stephen A.; and Vinci, James N., to Lubrizol Corporation, The. Hydrogen sulfide stabilized oil-soluble sulfurized organic compositions. 4,690,767, 9-1-87, Cl. 252-47.000.

Dibling, Richard C.: *See—*

Gostelow, Benjamin F.; Buick, Thomas R.; Hart, William B.; Gale, Paul N.; Carr, Trevor L.; Dibling, Richard C.; and Albon, Philip, 4,671,074, Cl. 62-186.000.

Dibowski, Gunter; and Grommes, Helmut, to Deutsche Babcock Werke Aktiengesellschaft. Bowl mill. 4,705,223, 11-10-87, Cl. 241-117.000.

Dic-Hercules Chemicals, Inc.: *See—*

Hara, Tetsuya; Hakata, Toshiyuki; and Goshiki, Keigo, 4,654,386, Cl. 524-107.000.

Ohta, Koji; Yoshimura, Masaaki; and Takahashi, Mizunori, 4,681,909, Cl. 524-272.000.

DiCenzo, Daniel A., to NCR Corporation. Interface circuit for connecting peripheral equipment to a computer terminal. 4,680,732, 7-14-87, Cl. 364-900.000.

Dichtelmuller, Herbert: *See—*

Kothe, Norbert; Dichtelmuller, Herbert; Stephan, Wolfgang; and Eichentopf, Bertram, 4,644,056, Cl. 530-387.000.

Dick, Carroll J.; Linsker, Ralph; Rutter, Roger S.; and Thomas, David L., to International Business Machines Corporation. Routing method and pattern for reducing cross talk noise problems on printed interconnection boards. 4,689,441, 8-25-87, Cl. 174-68.500.

Dick, David A.: *See—*

Butcher, Peter E.; Dick, David A.; Nicholas, James W.; Robinson, Melvin E. R.; and Staines, Glyn, 4,697,718, Cl. 220-82.00R.

Dick, David S.: *See—*

Johanson, Jerry R.; and Dick, David S., 4,646,910, Cl. 198-535.000.

Dick, Franklin A., to Marbetech Corporation. Apparatus and methods for determining the wettability of various substrates. 4,694,685, 9-22-87, Cl. 73-104.000.

Dick, Heinz; and Lux, Johannes, to Ford Motor Company. Headlight or lamp for vehicles. 4,648,014, 3-3-87, Cl. 362-346.000.

Dick, Heinz, to Ford Motor Company. Headlamp-indicator unit for motor vehicles. 4,679,125, 7-7-87, Cl. 362-66.000.

Dick, Michael; Zechmair, Wilhelm; and Bayer, Peter, to Ytong AG. Reinforcing unit including steel mats connected by connector bars. 4,667,452, 5-26-87, Cl. 52-650.000.

Dick, P. R. Pharmaceutical dermal compositions with prolonged and continuous action based on essential fatty acids. 4,710,383, 12-1-87, Cl. 424-449.000.

Dick, Paul H.: *See—*

Layman, Frederick P.; Huntley, David A.; Dick, Paul H.; Coad, George L.; Kuhlman, Michael J.; Vecta, Roger M.; and Hobson, Phillip M., 4,705,951, Cl. 250-442.100.

Dick, Wesley M., to Dana Corporation. Vehicle torque transfer gear assembly having different angled output shafts. 4,688,447, 8-25-87, Cl. 74-665.00T.

Dickakian, Ghazi, to Du Pont de Nemours, E. I., and Company. Aromatic pitch. 4,715,945, 12-29-87, Cl. 208-40.000.

Dickakian, Ghazi B., to Exxon Chemical Patents Inc. Method for determining crude oil fouling by high performance liquid chromatography. 4,671,103, 6-9-87, Cl. 73-61.10C.

Dickakian, Ghazi B.: *See—*

Atherton, George A.; Dickakian, Ghazi B.; and Grant, Edward D., Jr., 4,686,048, Cl. 210-771.000.

Dicke, Grant D.; and Williams, Jeffrey A., to Dicke Tool Company. Portable collapsible highway sign. 4,694,601, 9-22-87, Cl. 40-610.000.

Dicke, Hans-Rudolf; Bottenbruch, Ludwig; Wedemeyer, Karlfried; Paetz, Klaus-Christian; and El Sayed, Aziz, to Bayer Aktiengesellschaft. Thermotropic aromatic polyester from 3,3′-diphenyl-4,4′-dihydroxy biphenyl and arylene dicarboxylic acid. 4,701,515, 10-20-87, Cl. 528-176.000.

Dicke, Hans-Rudolf: *See—*

Eckhardt, Volker; Dicke, Hans-Rudolf; Paetz, Klaus-Christian; and El Sayed, Aziz, 4,667,011, Cl. 528-128.000.

Wagner, Rudolf; Halcour, Kurt; Dicke, Hans-Rudolf; and Eck- hardt, Volker, 4,716,252, Cl. 568-729.000.

Weber, Gunter; Dicke, Hans-Rudolf; Vogelsgesang, Roland; Simm, Walter; and Brinkmeyer, Hermann, 4,668,448, C 264-22.000.

Dicke Tool Company: *See—*

Dicke, Grant D.; and Williams, Jeffrey A., 4,694,601, C 40-610.000.

Dickens, James. Sled skis. 4,682,781, 7-28-87, Cl. 280-22.000.

Dickens, Judith F.; and Loughlin, John J. Medical apparatus and sy tem. 4,691,710, 9-8-87, Cl. 128-673.000.

Dickens, Lawrence E.: *See—*

Dawson, Dale E.; Conti, Anthony L.; Lee, Soong H.; Shade, Gar F.; and Dickens, Lawrence E., 4,638,269, Cl. 333-164.000.

Dickens, Luther L., to Radva Corporation. Molding structure for sup porting preform inserts. 4,653,718, 3-31-87, Cl. 249-95.000.

Dickenson, Donald E.: *See—*

Zimmerman, Garyx; and Dickenson, Donald E., 4,686,107, C 426-548.000.

Dicker, Ian D.; and Suschitzky, John L., to Fisons plc. Quinoline derivatives and their use as anti-asthmatic agents. 4,698,345, 10-6-8 Cl. 514-291.000.

Dickerson, Arthur F. Inverter for use with solar arrays. 4,680,69 7-14-87, Cl. 363-43.000.

Dickerson, Bobby V.: *See—*

Smith, Dale K.; Donich, Thomas G.; Dickerson, Bobby V.; and Leader, Raymond E., 4,685,149, Cl. 455-56.000.

Dickerson, Clifford; and Keithly, David, to Temes Corporation. Powe generation system. 4,697,424, 10-6-87, Cl. 60-670.000.

Dickerson, John W. Die set apparatus for badges. 4,696,086, 9-29-87, C 29-243.520.

Dickerson, Richard C.; and Miller, William S., to Ecolochem, In Apparatus for treating wash water from the manufacture of tereph thalic acid. 4,675,108, 6-23-87, Cl. 210-275.000.

Dickerson, Richard C.: *See—*

Muller, Richard S.; and Dickerson, Richard C., 4,659,460, C 210-93.000.

Dickerson, Robert E.: *See—*

Daubendiek, Richard L.; Dickerson, Robert E.; and Kelly, James E., 4,639,411, Cl. 430-510.000.

Dickerson, Wilton H., Jr.; Hsu, Che-Hsiung; and Samuels, Michael R to Du Pont de Nemours, E. I., and Company. Heat-strengthening process. 4,668,454, 5-26-87, Cl. 264-129.000.

Dickert, Joseph J., Jr.; and Heilweil, Israel J., to Mobil Oil Corporation. Controlled release dispersant for clay-thickened, water-based drilling fluids. 4,655,942, 4-7-87, Cl. 252-8.500.

Dickey, Leland C. Electrostatic particle dispersion for fluid mixture separation and chemical conversion. 4,687,493, 8-18-87, Cl. 55-2.00

Dickey, Rosalie J. Meat tenderizing apparatus. 4,672,716, 6-16-87, C 17-26.000.

Dickey, Thomas A.; and Bodetka, George R., to Avco Corporation. Overspeed system redundancy monitor. 4,712,372, 12-15-87, C 60-39.281.

Dickie, Laurence G., to B & W Loudspeakers Limited. Loudspeaker enclosures. 4,690,244, 9-1-87, Cl. 181-146.000.

Dickie, Ray A.; and Qaderi, Saiyed B. A., to Ford Motor Company. Conjugated diene functional modified aminoepoxy resins. 4,6 1-27-87, Cl. 525-113.000.

Dickie, Ray A., and Qaderi, Saiyed B. A., to Du Pont de Nemours, E. I., and Company. Blocked dieneophile functional modified amino epoxy resins. 4,657,979, 4-14-87, Cl. 525-113.000.

Dickie, Ray A.; and Oaderi, Saiyed B. A., to Du Pont de Nemours, E. I., and Company. Crosslinkable composition comprising modified aminoepoxy resins - II. 4,687,812, 8-18-87, Cl. 525-111.000.

Dickie, Robert G.; and Hobbins, Martin E., to Northern Technologies Ltd. Conductive screen for video display unit. 4,686,576, 8-11-87, C 358-245.000.

Dickie, Robert G.: *See—*

Hobbins, Martin E.; Dickie, Robert G.; and Pardo, Rene, 4,701,8 Cl. 353-245.000.

Dickinson, Alan J., to British Gas Corporation. Pipe scraper. 4,694,57 9-22-87, Cl. 30-94.000.

Dickinson, Barry L.; Robeson, Lloyd M.; and Sauers, Marvin E., t Union Carbide Corporation. Laminate formed from a polyarylate sheet and a polycarbonate and/or polyester sheet. 4,643,937, 2-17-8 Cl. 428-215.000.

Dickinson, Ben W. O., III: *See—*

Cummings, Richard E.; Mackey, Charles S.; Dickinson, Robert W. Dickinson, Ben W. O., III; and Larsen, Merle D., 4,715,128, C 33-544.000.

Dickinson, Ben Wade Oaks: *See—*

Dickinson, Robert W.; Mackey, Charles S.; and Odgers, Irving L. 4,693,327, Cl. 175-61.000.

Dickinson, Dale F.: *See—*

Yarborough, John R.; and Dickinson, Dale F., 4,652,817, Cl 324- 77.00K.

Dickinson, David A., to American Telephone and Telegraph Company. Method and apparatus for condensation heating. 4,698,915, 10-13-8 Cl. 34-23.000.

Dickinson, Harry D. Manually depressible automatically deployable spring balanced bollard. 4,715,742, 12-29-87, Cl. 404-6.000.

Dickinson III, Ben Wade Oakes: *See—*

Cummings, Richard E.; Mackey, Charles S.; Dickinson, Robert W.; Dickinson, Ben W. O., III; and Larsen, Merle D., 4,715,128, Cl. 33-544.000.

Dickinson, John; and Warhurst, Peter. Device for installing an article on a vertical surface. 4,649,652, 3-17-87, Cl. 33-180.00R.

Dickinson, Norman L., to Dipac Associates. Pollution-free pressurized combustion utilizing a controlled concentration of water vapor. 4,714,032, 12-22-87, Cl. 110-347.000.

Dickinson, Peter; and Ellwood, Michael, to Sericol Group Limited. Photosensitive systems showing visible indication of exposure. 4,659,649, 4-21-87, Cl. 430-280.000.

Dickinson, Peter D.; and Luciano, Robert A., to IGT. Amusement machine. 4,635,937, 1-13-87, Cl. 273-143.00R.

Dickinson, Peter D.; and Bertram, William, to IGT. Reel monitoring and diagnostic device for an amusement machine. 4,660,833, 4-28-87, Cl. 273-143.00R.

Dickinson, Peter D.; and Luciano, Robert A. Amusement machine. 4,693,477, 9-15-87, Cl. 273-143.00R.

Dickinson, Peter D.; and Luciano, Robert A., to International Game Technology (IGT). Amusement machine. 4,711,452, 12-8-87, Cl. 273-143.00R.

Dickinson, Robert W.; Mackey, Charles S.; and Odgers, Irving L., to Dickinson, Ben Wade Oaks; and Dickinson, Robert W. Mechanically actuated whipstock assembly. 4,693,327, 9-15-87, Cl. 175-61.000.

Dickinson, Robert W.: *See—*

Cummings, Richard E.; Mackey, Charles S.; Dickinson, Robert W.; Dickinson, Ben W. O., III; and Larsen, Merle D., 4,715,128, Cl. 33-544.000.

Dickinson, Robert Wayne: *See—*

Cummings, Richard E.; Mackey, Charles S.; Dickinson, Robert W.; Dickinson, Ben W. O., III; and Larsen, Merle D., 4,715,128, Cl. 33-544.000.

Dickinson, Roger P.: *See—*

Arrowsmith, John E.; Campbell, Simon F.; Cross, Peter E.; and Dickinson, Roger P., 4,647,565, Cl. 514-260.000.

Cross, Peter E.; and Dickinson, Roger P., 4,636,500, Cl. 514-234.000.

kinson, W. David; and Baetz, Charles N., to American Sigma, Inc. Two stage pump sampler. 4,701,107, 10-20-87, Cl. 417-86.000.

Dickinson, Gene D., to Ford Motor Company. Snap lock connector. 4,697,832, 10-6-87, Cl. 285-319.000.

Dickison, Maxwell, to F. F. Seeley Nominees Pty. Ltd. Support trolley. 4,653,710, 3-31-87, Cl. 248-188.700.

Dickmann, Thomas. Vehicle trailer hitch. 4,678,199, 7-7-87, Cl. 280-491.00E.

Dickneite, Gerhard; Schorlemmer, Hans-Ulrich; and Sedlacek, Hans-Harald, to Behringwerke Aktiengesellschaft. Use of Lycorine as an immunosuppressor. 4,699,912, 10-13-87, Cl. 514-283.000.

Dickneite, Gerhard: *See—*

Limbert, Michael; Durckheimer, Walter; Schorlemmer, Hans-Ulrich; and Dickneite, Gerhard, 4,701,452, Cl. 514-206.000.

Dicks, Hermann, to Licentia Patent-Verwaltungs-GmbH. Device for feeding one or a plurality of electrodes in an electrothermal furnace. 4,677,643, 6-30-87, Cl. 373-105.000.

Dickson, Charles R.; and Carlson, David E., to Solarex Corporation. Activation by dehydrogenation or dehalogenation of deposition feedstock and dopant materials useful in the fabrication of hydrogenated amorphous silicon alloys for photovoltaic devices and other semiconductor devices. 4,690,830, 9-1-87, Cl. 427-38.000.

Dickson, Donald C.: *See—*

Jachowski, Ronald E.; and Dickson, Donald C., 4,644,303, Cl. 333-134.000.

Dickson Industries, Inc.: *See—*

Dickson, Wayne E., 4,646,481, Cl. 51-424.000.

Dickson, Wayne E., 4,693,041, Cl. 51-424.000.

Dickson, James. Can for containing material for consolidation into widgets and method of using the same. 4,643,322, 2-17-87, Cl. 220-15.000.

ickson, LeRoy D.: *See—*

Antonelli, Douglas C.; Branscomb, Patricia M.; Broockman, Eric C.; Dickson, LeRoy D.; Koppel, Caralee P.; Ossowski, Richard; and Stokes, Olen L., Jr., 4,713,785, Cl. 364-569.000.

ickson, Lester: *See—*

Chilton, Henry; and Dickson, Lester, 4,706,683, Cl. 128-654.000.

ickson, Wayne E., to Dickson Industries, Inc. Surface blasting apparatus. 4,646,481, 3-3-87, Cl. 51-424.000.

ickson, Wayne E., to Dickson Industries, Inc. Surface blasting apparatus. 4,693,041, 9-15-87, Cl. 51-424.000.

ickson, Wesley B., to Advanced Equipment Corporation. Operable wall. 4,642,947, 2-17-87, Cl. 52-64.000.

ickson-Wright, Edward A.; and Lacey, Derick A., to Package Control Limited. Load transporting apparatus. 4,684,311, 8-4-87, Cl. 414-535.000.

cky, John, to Columbus McKinnon Corporation. Shredded tire oversize scrap return elevator. 4,684,070, 8-4-87, Cl. 241-79.300.

cky, John, to Columbus McKinnon Corporation. Unitized machine for shredding waste automotive vehicle tires. 4,684,071, 8-4-87, Cl. 241-80.000.

comed Corporation: *See—*

Lindbloom, Bruce J.; Mathews, Peter; and Yam, David S., 4,674,058, Cl. 364-518.000.

ctaphone Corporation: *See—*

Ciaraldi, Anthony, 4,663,680, Cl. 360-92.000.

D'Agosto, Nicholas A., III; and Rubinstein, Alan S., 4,658,097, Cl. 379-75.000.

Debaudringhien, Andre, 4,692,825, Cl. 360-96.300.

Dwyer, John J.; Saltzman, Jeremy; and Hipp, Betsy, 4,688,117, Cl. 360-72.300.

Hipp, Betsy; Saltzman, Jeremy; and Dwyer, John J., 4,686,587, Cl. 360-74.200.

Saltzman, Jeremy; Dwyer, John J.; and Hipp, Betsy, 4,677,501, Cl. 360-72.200.

Sidebottom, Philip L., 4,636,888, Cl. 360-92.000.

Didchenko, Rostislav; and Lewis, Irwin C., to Amoco Corporation. Mesophase pitch feedstock from hydrotreated decant oils. 4,645,584, 2-24-87, Cl. 208-40.000.

Didde Graphics Systems Corp.: *See—*

Osborn, Wayne L.; and Neff, Monty L., 4,688,459, Cl. 83-698.000.

Didden, Martinus L. N.: *See—*

Claasen, Theodoor A. C. M.; Beenker, Gerardus F. M.; van Gerwen, Petrus J.; Meijer, Johannes M.; and Didden, Martinus L. N., 4,660,216, Cl. 375-58.000.

Claasen, Theodoor A. C. M.; Beenker, Gerardus F. M.; Van Gerwen, Petrus J.; Meijer, Johannes M.; and Didden, Martinus L. N., 4,672,633, Cl. 375-58.000.

Didenot, Dominique: *See—*

Commarmot, Roger; Didenot, Dominique; and Gardais, Jean-Francois, 4,681,740, Cl. 422-78.000.

Commarmot, Roger; Didenot, Dominique; and Gardais, Jean-Francois, 4,693,867, Cl. 422-64.000.

Didier Engineering GmbH: *See—*

Wagener, Dietrich; Laue, Karl H.; Wunderlich, Egmar; Sander, Theo; Flockenhaus, Claus; Hackler, Erich; Levkov, Blagoje; Grimm, Daniel; Kainer, Hartmut; and Stein, Hermann, 4,672,052, Cl. 502-439.000.

Wagener, Dietrich; Laue, Karl H.; Wunderlich, Egmar; Sander, Theo; Flockenhaus, Claus; Hackler, Erich; Levkov, Blagoje; Grimm, Daniel; Kainer, Hartmut; Stein, Hermann; Buhler, Hans-Eugen; Kalfa, Horst; Jansen, Johann; Stender, Werner; and Max, Arnold, 4,695,559, Cl. 502-183.000.

Didier, Gerard: *See—*

Triboulet, Robert; Didier, Gerard; Durand, Alain; and Royer, Michel, 4,662,980, Cl. 156-604.000.

Didier-Werke AG: *See—*

Buhler, Hans-Eugen; Stein, Hermann; Levkov, Blagoje; Kainer, Hartmut; Kalfa, Horst; and Grimm, Daniel, 4,656,148, Cl. 502-34.000.

Buschmann, Rudiger; Ganz, Rudolf; Willmann, Gerd; Wirth, Ludwig; Elstner, Ingo; and Jeschke, Peter, 4,710,480, Cl. 501-95.000.

Dobner, Gerd-Erich, 4,691,901, Cl. 266-236.000.

Geller, Heinrich; Nold, Peter; Schermer, Heinz; and Rave, Ortwin, 4,640,447, Cl. 222-603.000.

Heinz, Michael; Lange, Joachim; Muschner, Udo; Naefe, Herbert; Rothfuss, Hans; Winkelmann, Manfred; and Winkler, Hans-Joachim, 4,711,432, Cl. 266-220.000.

Hlawatschek, Hartmut; Leistner, Hans; and Gelsdorf, Gunter, 4,648,097, Cl. 373-93.000.

Muschner, Udo, 4,702,460, Cl. 266-45.000.

Pohl, Siegfried; Luhrsen, Ernst; Jeschke, Peter; Rave, Ortwin; Kienow, Martin; and Richter, Werner, 4,634,685, Cl. 501-100.000.

Schwalb, Max, 4,671,191, Cl. 110-336.000.

Sommerer, Jurgen; Leipold, Michael; Kainer, Hartmut; and Stein, Hermann, 4,677,731, Cl. 29-526.00R.

Wagener, Dietrich; Laue, Karl H.; Wunderlich, Egmar; Sander, Theo; Flockenhaus, Claus; Hackler, Erich; Levkov, Blagoje; Grimm, Daniel; Kainer, Hartmut; and Stein, Hermann, 4,672,052, Cl. 502-439.000.

Wagener, Dietrich; Laue, Karl H.; Wunderlich, Egmar; Sander, Theo; Flockenhaus, Claus; Hackler, Erich; Levkov, Blagoje; Grimm, Daniel; Kainer, Hartmut; Stein, Hermann; Buhler, Hans-Eugen; Kalfa, Horst; Jansen, Johann; Stender, Werner; and Max, Arnold, 4,695,559, Cl. 502-183.000.

Winkelmann, Manfred; Rothfuss, Hans; Muschner, Udo; and Schmitt, Karl H., 4,695,043, Cl. 266-265.000.

Winkelmann, Manfred; Muschner, Udo; and Gerber, Pierre, 4,709,905, Cl. 266-270.000.

Didion, Charles J., to Didion Manufacturing Company. Dual sand reclaimer. 4,674,691, 6-23-87, Cl. 241-8.000.

Didion, David A.: *See—*

McLinden, Mark O.; Didion, David A.; and MacCracken, Calvin D., 4,687,588, Cl. 252-67.000.

Didion Manufacturing Company: *See—*

Didion, Charles J., 4,674,691, Cl. 241-8.000.

DiDomenico, Edward D., Jr., to Henkel Corporation. High solids coating compositions based on fatty polyols. 4,656,061, 4-7-87, Cl. 427-385.500.

DiDomenico, Robert A., to Intermedics Infusaid, Inc. Positive pressure programmable infusion pump. 4,714,462, 12-22-87, Cl. 604-67.000.

Didriksen, Neal A., to Ampex Corporation. Indexing means for tape cassette. 4,635,878, 1-13-87, Cl. 242-198.000.

Didriksen, Neil A.: *See—*

Pfannkuch, Robert B.; Didriksen, Neil A.; and Rehklaw, George, 4,652,941, Cl. 360-18.000.

Didyk, Witalij: *See—*

Fenne, Kenneth R.; Steward, Wayne D.; and Didyk, Witalij, 4,647,832, Cl. 320-2.000.

Die-Mold Tool Ltd.: *See—*

Basnett, David T., 4,712,995, Cl. 425-562.000.

Dieban, Peter H.; and Ziller, Helmut, to MAN Gutehoffnungshutte GmbH. Pedestal unit having raisable and lowerable platforms. 4,633,625, 1-6-87, Cl. 52-30.000.

DieBold, Barry L.: *See*—
  Anderson, Mike K.; DieBold, Barry L.; Cutforth, Norman F.; and Cutforth, Dean J., 4,662,800, Cl. 406-53.000.

Diebold, Gerald J., to Detection Research, Inc. Surface tension detector for liquid chromatography. 4,650,588, 3-17-87, Cl. 210-656.000.

Diebold, Incorporated: *See*—
  Anders, Walter G.; Grosswiller, Leo J., Jr.; Lozier, Benjamin F.; and Rozlosnik, Alan J., 4,710,098, Cl. 415-149.00A.
  Graef, Harry T.; and Newton, Kevin H., 4,664,369, Cl. 271-263.000.
  Shoop, James D., 4,690,073, Cl. 109-59.00T.

Dieckman, John H.: *See*—
  Redmond, Donald R.; and Dieckman, John H., 4,703,371, Cl. 360-75.000.

Diederen, Werner; and Sonnleitner, Herbert, to Saint Gobain Vitrage. Loading device for a horizontal continuous furnace for the heating of glass plates. 4,634,329, 1-6-87, Cl. 414-159.000.

Diederen, Werner: *See*—
  Bartusel, K. Rudolf; Diederen, Werner; Liepelt, Eberhard; and Linberg, Waldemar, 4,661,142, Cl. 65-348.000.

Diederen, Willi: *See*—
  Austel, Volkhard; Hauel, Norbert; Heider, Joachim; Reiffen, Manfred; Van Meel, Jacobus C. A.; and Diederen, Willi, 4,656,171, Cl. 514-250.000.
  Austel, Volkhard; Heider, Joachim; Hauel, Norbert; Reiffen, Manfred; van Meel, Jacobus C. A.; and Diederen, Willi, 4,670,438, Cl. 514-249.000.
  Hauel, Norbert; Austel, Volkhard; Heider, Joachim; Reiffen, Manfred; and Diederen, Willi, 4,696,931, Cl. 514-261.000.
  Hauel, Norbert; Austel, Volkhard; Heider, Joachim; Reiffen, Manfred; Diederen, Willi; and Haarman, Walter, 4,699,909, Cl. 514-254.000.
  Heider, Joachim; Hauel, Norbert; Austel, Volkhard; Noll, Klaus; Bomhard, Andreas; van Meel, Jacques; and Diederen, Willi, 4,716,169, Cl. 514-299.000.

Diederich, David J.; and Paddock, John C., to USX Corporation. Tundish for mixing alloying elements with molten metal. 4,711,429, 12-8-87, Cl. 266-44.000.

Diederich, Perry A., to PSI Star. Plasma reactor with voltage transformer. 4,711,767, 12-8-87, Cl. 422-186.290.

Diedrich, Donald F.; and Maynard, Christopher L., to University of Kentucky Research Foundation, The. Compositions and method of treatment for sickle cell anemia. 4,665,058, 5-12-87, Cl. 514-25.000.

Diedrich Drilling Equipment, Inc.: *See*—
  Diedrich, John C., 4,667,754, Cl. 175-249.000.

Diedrich, John C., to Diedrich Drilling Equipment, Inc. Flexible plug for obtaining soil samples during drilling operations. 4,667,754, 5-26-87, Cl. 175-249.000.

Diefenbach, Gerhard: *See*—
  Bertram, Leo; Diefenbach, Gerhard; and Schemmann, Hugo, 4,636,676, Cl. 310-162.000.

Diefenbach, Horst; Dobbelstein, Arnold; and Hille, Hans-Dieter, to BASF Farben & Fasern AG. Binders for cathodically depositable coating compositions, a process for their preparation, and their use. 4,684,676, 8-4-87, Cl. 523-411.000.

Diefenbach, Horst; and Geist, Michael, to BASF Farben & Fasern AG. Heat-hardenable binder mixture of amino resin and hydroxy epoxides. 4,686,249, 8-11-87, Cl. 523-410.000.

Diefenbach, Jean-Jacques: *See*—
  le Chatelier, Robert; Sinic, Andre ; and Diefenbach, Jean-Jacques, 4,696,334, Cl. 152-417.000.

Diefenbach, Steven P., to Ethyl Corporation. Dirhenium metathesis catalysts. 4,698,451, 10-6-87, Cl. 585-534.000.

Diefenbach, Steven P., to Ethyl Corporation. Metathesis of acetylenes. 4,704,377, 11-3-87, Cl. 502-167.000.

Diefendorff, Keith E.: *See*—
  Laws, Gerald E.; and Diefendorff, Keith E., 4,646,298, Cl. 371-16.000.

Dieffenbach, Harry N., to Dysan Corporation. Micro-floppy diskette with inner containment system. 4,652,961, 3-24-87, Cl. 360-133.000.

Dieffenbach, Harry N., to deTEQ. Flexible micro disk. 4,686,666, 8-11-87, Cl. 369-290.000.

Diegel, Dieter; Plohn, Gerhard; and Schuh, Manfred, deceased (by Schuh, Gisela, Sabine Schuh, Michael Schuh, heirs), to Siemens Aktiengesellschaft. Apparatus for controlling a turbo generator. 4,694,188, 9-15-87, Cl. 290-40.00B.

DiEgidio, Leo C. Electoral college game. 4,709,926, 12-1-87, Cl. 273-257.000.

Diehl, Bert A., Jr.: *See*—
  Norris, Richard M.; and Diehl, Bert A., Jr., 4,704,145, Cl. 55-306.000.

Diehl, Christian; Lill, Ernst; and Kirsche, Horst, to Messerschmitt-Bolkow-Blohm GmbH. Guide beam and tracking system. 4,669,682, 6-2-87, Cl. 244-3.130.

Diehl, Christian; Schnaebele, Werner; Allgaier, Karl-Heinz; and Kirsche, Horst, to Messerschmitt-Bolkow-Blohm GmbH. Guide beam and tracking system. 4,676,455, 6-30-87, Cl. 244-3.130.

Diehl, Dolores M. Bed sheet restraint. 4,653,131, 3-31-87, Cl. 5-494.000.

Diehl, Donald R.: *See*—
  DoMinh, Thap; and Diehl, Donald R., 4,668,606, Cl. 430-271.000.

Diehl, Francis L.: *See*—
  Gosselink, Eugene P.; and Diehl, Francis L., 4,711,730, Cl. 252-8.750.

Diehl GmbH & Co.: *See*—
  Argyrakis, Nikolaus, 4,711,178, Cl. 102-384.000.
  Arnold, Werner; Grasser, Hans; Kruger, Tilmann; and Meiner, Alfred, 4,684,261, Cl. 368-107.000.
  Babel, Wolfgang, 4,712,479, Cl. 102-427.000.
  Berg, Gunter; Muller, Otmar; and Esters, Rainer, 4,640,947, Cl. 524-109.000.
  Bock, Erich; and Rieger, Gerald, 4,712,482, Cl. 102-501.000.
  Brieseck, Bernd; and Kreuzer, Peter, 4,635,881, Cl. 244-49.000.
  Brieseck, Bernd; and Nagler, Josef, 4,651,584, Cl. 74-102.000.
  Brieseck, Bernd; and Nagler, Josef, 4,660,786, Cl. 244-324.000.
  Bugiel, Horst G., 4,665,791, Cl. 89-1.100.
  Bugiel, Horst G., 4,690,062, Cl. 102-476.000.
  Drager, Hubert; and Lassle, Edwin, 4,654,493, Cl. 200-302.100.
  Furst, Wilhelm; Rudenauer, Werner; and Siebert, Rainer, 4,648,320, Cl. 102-210.000.
  Heinrich, Hansjorg; and Kraft, Josef, 4,712,481, Cl. 102-435.000.
  Holler, Roland, 4,715,285, Cl. 102-435.000.
  Kratz, Bernhard; and Postler, Gunter, 4,704,965, Cl. 102-226.000.
  Kriz, Helmut, 4,655,591, Cl. 356-152.000.
  Kriz, Helmut; and Stadler, Hansjorg, 4,679,915, Cl. 350-611.000.
  Lindstadt, Klaus; Haissig, Andreas; Maier, Dietmar; and Scholz, Stefan, 4,712,480, Cl. 102-427.000.
  Nagler, Josef; and Ahlers, Utz-Udo, 4,646,642, Cl. 102-378.000.
  Remmel, Jochen; and Buchinger, Robert, 4,679,776, Cl. 267-140.100.
  Riesner, Gerhard; and Koch, Walther, 4,698,729, Cl. 361-386.000.
  Ringel, Konrad; and Degen, Wolfgang, 4,651,618, Cl. 86-20.140.
  Ringel, Konrad; and Rudolf, Karl, 4,711,181, Cl. 102-476.000.
  Ruchel, Peter; and Hofmann, Lothar, 4,676,848, Cl. 148-434.000.
  Rudenauer, Werner; Furst, Wilhelm; and Haas, Erwin, 4,658,725, Cl. 102-229.000.
  Rudenauer, Werner; Furst, Wilhelm; and Liehl, Norbert, 4,679,501, Cl. 102-208.000.
  Schleicher, Ulrich, 4,674,705, Cl. 244-3.100.
  Stessen, Lothar, 4,674,408, Cl. 102-384.000.
  Stessen, Lothar, 4,689,845, Cl. 60-228.000.
  Stessen, Lothar, 4,711,413, Cl. 244-3.160.
  Steuer, Raimar; and Brieseck, Bernd, 4,664,338, Cl. 244-328.000.
  von Laar, Klaus; Heberlein, Werner; and Winter, Cavit, 4,660,458, Cl. 89-25.000.
  von Laar, Klaus; Machmer, Wilheim; and Winter, Cavit, 4,669,357, Cl. 89-40.020.
  Wallermann, Heinrich, 4,711,412, Cl. 244-3.150.
  Weber, Adolf; Strauss, Hans; and Bankel, Adolf, 4,693,180, Cl. 102-274.000.

Diehl, Herbert: *See*—
  Huschelrath, Gerhard; and Diehl, Herbert, 4,692,702, Cl. 324-251.000.

Diehl, Konrad, to Pfaff Industriemaschinen GmbH. Adjustable apparatus for sewing machine thread tensioning device. 4,694,765, 9-22-87, Cl. 112-254.000.

Diehl, Manfred; and Bergmann, Roland, to Degussa Aktiengesellschaft. Detergent builder. 4,668,420, 5-26-87, Cl. 252-135.000.

Diehl, Manfred; Bergmann, Roland; Stadtmuller, Gunter; and Dieter, Sigrid, to Degussa Aktiengesellschaft. Aqueous stable suspensions of water insoluble silicates capable of binding calcium ions and their use for the production of washing and cleaning agents. 4,671,887, 6-9-87, Cl. 252-174.250.

Diehl, Manfred. Builder for washing agents. 4,683,073, 7-28-87, Cl. 252-135.000.

Diehl, Peter, to Feindrahtwerk Adolf Edelhoff GmbH & Co. Process for the production of tin-plated wires. 4,661,215, 4-28-87, Cl. 204-28.000.

Diehl, Roy E.: *See*—
  Berger, Alvin H.; and Diehl, Roy E., 4,674,457, Cl. 123-196.00R.
  Berger, Alvin H.; and Diehl, Roy E., 4,682,672, Cl. 184-106.000.

Diehl, Volker: *See*—
  Baur, Karl G.; Diehl, Volker; Stops, Peter; Hellbach, Hans; and Brunner, Erwin, 4,681,946, Cl. 546-317.000.

Diehl, Walter: *See*—
  Beyer, Hans-Hermann; Diehl, Walter; Eckert, Karlheinz; Eiermann, Kurt; and Ringelstein, Hans-Martin, 4,634,383, Cl. 433-226.000.

Diehl, Wolfgang: *See*—
  Schnoor, Christian; and Diehl, Wolfgang, 4,667,667, Cl. 128-201.180.

Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., to Bayer Aktiengesellschaft. Benzolactamsultams. 4,645,528, 2-24-87, Cl. 71-90.000.

Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; and Roy, Wolfgang, to Bayer Aktiengesellschaft. Preparation of sulphonyliso(thio)ureas and sulphonylisoureas. 4,647,665, 3-3-87, Cl. 544-182.000.

Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; and Roy, Wolfgang, to Bayer Aktiengesellschaft. Process for the preparation of 1-(2-oxyaminosulphonyl-phenylsulphonyl)-3-heteroaryl-ureas. 4,658,027, 4-14-87, Cl. 544-321.000.

Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochim; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., to Bayer Aktiengesellschaft. 1-(2-oxyaminosulphonyl-

phenylsulphonyl)-3-heteroaryl-iso-(thio)-ureas. 4,659,364, 4-21-87, Cl. 71-92.000.

Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., to Bayer Aktiengesellschaft. 1-(2-Oxyaminosulphonylphenylsulphonyl)-3-heteroaryl-ureas. 4,666,505, 5-19-87, Cl. 71-92.000.

Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., to Bayer Aktiengesellschaft. Herbicidal benzodisultam derivative, compositions and method of use therefor. 4,680,052, 7-14-87, Cl. 71-91.000.

Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., to Bayer Aktiengesellschaft. 1-(2-oxyaminocarbonylphenylsulphonyl)-3-heteroaryl-ureas. 4,704,158, 11-3-87, Cl. 71-92.000.

Diehr, Hans-Joachim: *See—*

Forster, Heinz; Diehr, Hans-Joachim; Muller, Fritz; Klauke, Erich; Eue, Ludwig; Santel, Hans-Joachim; Schmidt, Robert R.; Reinecke, Paul; and Hanssler, Gerd, 4,708,731, Cl. 71-90.000.

Diekemper, Erwin; and Kastrup, Dieter, to MIDS Magnetische Informations-und Daten-Systeme GmbH. Access card. 4,694,148, 9-15-87, Cl. 235-468.000.

Dieken, Alan P.; and Dufresne, Joel R., to Minnesota Mining and Manufacturing Co. Electrical stimulator for biological tissue utilizing output current monitor. 4,706,674, 11-17-87, Cl. 128-419.00R.

Dieken, Alan P.: *See—*

Dufresne, Joel R.; and Dieken, Alan P., 4,686,991, Cl. 128-421.000.

Dufresne, Joel R.; and Dieken, Alan P., 4,699,143, Cl. 128-419.00R.

Dieken, John M.: *See—*

Sharp, Stanley O.; and Dieken, John M., 4,660,910, Cl. 339-16.00R.

Diekman, Robert L.; and Downing, V. Daniel, to Huffy Corporation. Frame joint construction for bicycles and the like. 4,648,616, 3-10-87, Cl. 280-281.00R.

Diekman, Robert L., to Huffy Corporation. Apparatus for assembling a bicycle frame. 4,680,849, 7-21-87, Cl. 29-252.000.

Diekman, Robert L.: *See—*

Allen, David A.; and Diekman, Robert L., 4,657,270, Cl. 280-7.100.

Diekmann, Franz, to Rhein-Flugzeugbau GmbH. Towed air target. 4,659,034, 4-21-87, Cl. 244-1.0TD.

Diel, Peter J.; and Maier, Ludwig, to Ciba-Geigy Corporation. Herbicidal phosphonic acid and phosphinic acid derivatives. 4,640,701, 2-3-87, Cl. 71-86.000.

Diel, Peter J.: *See—*

Lukaszczyk, Alfons; Martin, Henry; Diel, Peter J.; Fory, Werner; Gotzi, Karl; Kristinsson, Haukur; Muller, Beat; Muntwyler, Rene; Pachlatko, Johannes P.; Rempfler, Hermann; Schurter, Rolf; and Szczepanski, Henry, 4,715,883, Cl. 71-90.000.

Diel, Robert L.: *See—*

Skinner, Jerald P.; Zlotky, Richard A.; and Diel, Robert L., 4,714,225, Cl. 248-523.000.

Dieleman, Adrianus H., to U.S. Philips Corporation. Validation check for remote digital station. 4,665,396, 5-12-87, Cl. 380-23.000.

Dieleman, Louis F. A.: *See—*

Scholten, Gerard J.; Dieleman, Louis F. A.; and Blankers, Johannes M. M., 4,712,675, Cl. 206-332.000.

Dieleman, Pieter J.; Goedbloed, Willem; De Jong, Roelof P.; and Oosterwijk, Theodorus M., to U.S. Philips Corporation. Method of manufacturing a waveguide filter and waveguide filter manufactured by means of the method. 4,706,051, 11-10-87, Cl. 333-212.000.

Diels, Gaston S. M.: *See—*

Janssens, Frans E.; Kennis, Ludo E. J.; Hens, Jozef F.; Torremans, Joseph L. G.; and Diels, Gaston S. M., 4,695,575, Cl. 514-322.000.

Diem, Bernard, to Commissariat a l'Energie Atomique. Process for producing by sloping etching a thin film transistor with a self-aligned gate with respect to the drain and source thereof. 4,715,930, 12-29-87, Cl. 437-101.000.

Diem, Hans: *See—*

Kraus, Friedrich; Matthias, Guenther; Wittmann, Otto; and Diem, Hans, 4,684,690, Cl. 524-419.000.

Merkel, Dieter; Muehlthaler, Wolfgang; Diem, Hans; and Matthias, Guenther, 4,700,000, Cl. 562-606.000.

Diemert, Jean-Marc, to Ritzenthaler S.A., a part interest. Electric lock with specially shaped keeper, particularly for the door to a secured locale. 4,703,637, 11-3-87, Cl. 70-277.000.

Dien, Rene; and Poulain, Guy, to Rhone-Poulenc Specialites Chimiques. Storage-stable thermosetting compositions comprising an imido/organosilicon prepolymer. 4,650,719, 3-17-87, Cl. 428-422.800.

Diener, Arnulf; Kettler, Hans; and Tenhaven, Ulrich, to Hoesch Aktiengesellschaft. Setup for producing metallic coatings. 4,635,586, 1-13-87, Cl. 118-718.000.

Diener, Horst; Albrecht, Ernst; and Willenbacher, Erich, to Pfaff Industriemaschinen GmbH. Sewing machine housing construction. 4,677,924, 7-7-87, Cl. 112-258.000.

Diener, Jorg; and Bitrolf, Ehrenfried, to Richard Wolf GmbH. Tecnoscopes. 4,640,124, 2-3-87, Cl. 73-116.000.

Diener, Richard W.: *See—*

Miller, Verelyn A., Jr.; Diener, Richard W.; and Drapatsky, Leonid, 4,661,828, Cl. 346-108.000.

Diener, Sigrid: *See—*

Diehl, Manfred; Bergmann, Roland; Stadtmuller, Gunter; and Diener, Sigrid, 4,671,887, Cl. 252-174.250.

Diener Verwaltungs-und Beteiligungsgesellschaft m.b.H.: *See—*

Maslanka, Harald, 4,646,751, Cl. 128-751.000.

Diener, Walter C.; Gaubatz, Tommy L.; and Stiefel, Michael S., to Illinois Tool Works Inc. Belt for a cable drive system. 4,699,305, 10-13-87, Cl. 226-170.000.

Dienes, Zoltan B., to Thomas & Betts Corporation. Method of sealing and repairing electrical cables. 4,666,537, 5-19-87, Cl. 156-48.000.

Dienes, Zoltan B., to Thomas & Betts Corporation. Method and apparatus for providing a spacer to a cable splice. 4,685,981, 8-11-87, Cl. 156-48.000.

Dienes, Zoltan B., to Thomas & Betts Corporation. Venting apparatus for electrical cable. 4,691,083, 9-1-87, Cl. 174-135.000.

Diep, Daniel V., to Nalco Chemical Company. H_2O_2 as a conditioning agent for electrostatic precipitators. 4,678,481, 7-7-87, Cl. 55-4.000.

Dieperink, Willem; and Vruggink, Arend, to Beyeler Machines, S.A. Sheet-bending press incorporating a device for continuous monitoring of the bending angle. 4,640,113, 2-3-87, Cl. 72-21.000.

Diepers, Heinrich; and Schewe, Herbert, to Siemens Aktiengesellschaft. Combined magnetic write and read head for the vertical magnetization of a corresponding recording medium. 4,639,811, 1-27-87, Cl. 360-125.000.

Diepers, Heinrich: *See—*

Schewe, Herbert; and Diepers, Heinrich., 4,652,957, Cl. 360-125.000.

Schewe, Herbert; and Diepers, Heinrich, 4,703,382, Cl. 360-125.000.

Diepeveen, Neal; and Bastian, Robert, to Magnavox Government and Industrial Electronics Company. Focus-corrected convergent beam scanner. 4,641,192, 2-3-87, Cl. 358-206.000.

Diepeveen, Neal; and Bastian, Robert E., to Magnavox Government and Industrial Electronics Company. Stereoscopic infrared imager having a time-shared detector array. 4,682,029, 7-21-87, Cl. 250-330.000.

Diephuis, Peter W.; and Thompson, Arthur D., to EMCO Limited. Cartridge for faucet valve. 4,699,170, 10-13-87, Cl. 137-454.500.

Dierberger, James A.; and Tumicki, Thomas F., to United Technologies Corporation. Coated high temperature combustor liner. 4,655,044, 4-7-87, Cl. 60-753.000.

Diercks, Dwight R.: *See—*

Poeppel, Roger B.; Greenberg, Sherman; and Diercks, Dwight R., 4,705,563, Cl. 75-95.000.

Dierdorf, Hans-Rolf; and Wegner, Juergen, to Henkel Kommanditgesellschaft auf Aktien. Adhesive for rigid PVC. 4,672,084, 6-9-87, Cl. 524-113.000.

Dierichs, Wolfgang; Gierenz, Gerhard; and Kraus, Gabriella, to Henkel Kommanditgesellschaft auf Aktien. Adhesive stick and a process for its production. 4,639,475, 1-27-87, Cl. 523-164.000.

Dierichs, Wolfgang; Gierenz, Gerhard; and Kraus, Gabriella, to Henkel Kommanditgesellschaft auf Aktien. Hand stamp method for applying adhesives. 4,696,836, 9-29-87, Cl. 427-208.400.

Dierkes, Albert: *See—*

Biermeier, Johann; Olbrich, Otto; and Dierkes, Albert, 4,703,374, Cl. 360-98.000.

Brand, Wilhelm; Dierkes, Albert; and Olbrich, Otto, 4,672,487, Cl. 360-97.000.

Diesel Equipment Limited: *See—*

Kipling, Graham V., 4,682,621, Cl. 137-116.300.

Olins, Richard C., 4,702,511, Cl. 296-57.00R.

Diesel, Hans-Dieter; Schmidt, Hans J.; and Sauer, Burkhard, to Letron GmbH. Process for making colored resin impregnated paper sheets with a three-dimensional surface structure and laminates using the sheets. 4,652,482, 3-24-87, Cl. 428-151.000.

Diesel Kiki Co., Ltd.: *See—*

Abe, Tatsuhiko; and Takagi, Nobukazu, 4,643,223, Cl. 137-554.000.

Hiyama, Yasuhiro; and Nozaki, Shinya, 4,674,461, Cl. 123-500.000.

Hiyama, Yasuhiro, 4,707,927, Cl. 33-366.000.

Hiyama, Yasuhiro, 4,708,317, Cl. 251-129.160.

Ichihashi, Koji, 4,694,270, Cl. 335-260.000.

Iida, Katumi, 4,685,508, Cl. 165-17.000.

Iijima, Takeo; Nomura, Hiroshi; Saito, Susumu; and Echizen, Susumu, 4,690,619, Cl. 417-269.000.

Iijima, Takeo, 4,701,110, Cl. 417-269.000.

Iijima, Takeo; Nomura, Hiroshi; Saito, Susumu; and Echizen, Susumu, 4,715,790, Cl. 417-269.000.

Inomata, Kenichi, 4,712,987, Cl. 418-150.000.

Ishibashi, Toru, 4,635,854, Cl. 239-533.800.

Ishizuka, Yutaka; and Nakamura, Teruo, 4,636,153, Cl. 418-80.000.

Ito, Satoru, 4,711,205, Cl. 123-179.00L.

Izumi, Kouichi, 4,635,201, Cl. 364-431.070.

Kato, Yushi; Suzuki, Shoichi; and Inoue, Akira, 4,652,221, Cl. 417-500.000.

Kato, Yushi, 4,685,870, Cl. 417-500.000.

Kobayashi, Tadashi; and Nozaki, Shinya, 4,697,565, Cl. 123-449.000.

Kurihara, Kazumasa; and Arai, Kenji, 4,693,142, Cl. 74-861.000.

Kurihara, Kazumasa; and Arai, Kenji, 4,714,145, Cl. 192-0.052.

Kushida, Takeo; and Yamada, Keiichi, 4,637,553, Cl. 239-533.400.

Kushida, Takeo; and Yamada, Keiichi, 4,673,163, Cl. 251-129.100.

Kushida, Takeo; and Taniai, Youichi, 4,677,327, Cl. 310-43.000.

Kushida, Takeo, 4,678,000, Cl. 137-1.000.

Matsunaga, Masahiro, 4,640,241, Cl. 123-198.00F.

Mino, Kaoru; and Yanagisawa, Yoshikazu, 4,672,819, Cl. 62-298.000.

Mino, Kaoru; Fukushima, Koji; and Kasai, Takashi, 4,715,609, Cl. 277-207.00R.

Moriya, Koichi; and Oshizawa, Hidekazu, 4,698,762, Cl. 364-424.100.
Nagao, Teruyuki; Kawamura, Yuji; and Kashima, Koichi, 4,696,340, Cl. 165-58.000.
Nakajima, Nobuyuki, 4,676,103, Cl. 73-516.0LM.
Nakajima, Nobuyuki; and Takahashi, Tadahiro, 4,704,072, Cl. 417-223.000.
Nakamura, Hisashi; and Abe, Noriyuki, 4,661,051, Cl. 417-499.000.
Nomura, Hiroshi; and Saito, Susumu, 4,676,143, Cl. 92-243.000.
Nomura, Hiroshi; Shitara, Mototaka; Echizen, Susumu; and Saito, Susumu, 4,704,073, Cl. 417-269.000.
Ogawa, Masanobu, 4,669,668, Cl. 239-533.500.
Ohi, Shinichi, 4,671,073, Cl. 62-161.000.
Onkoshi, Masayoshi, 4,656,980, Cl. 123-179.00L.
Ohtani, Yoshio, 4,636,912, Cl. 361-154.000.
Okada, Shigeru, 4,650,052, Cl. 192-84.00C.
Okamoto, Kenji, 4,709,335, Cl. 364-431.050.
Okuda, Shinji, 4,662,564, Cl. 239-73.000.
Okura, Eiji, 4,668,870, Cl. 250-577.000.
Oshizawa, Hidekazu; and Kondoh, Masami, 4,679,116, Cl 361-154.000.
Oshizawa, Hidekazu; and Okamoto, Kenji, 4,711,211, Cl. 123-357.000.
Otsuka, Shojiro; and Komada, Hideaki, 4,691,674, Cl. 123-299.000.
Sakurai, Yoshihiko; and Masauji, Mamoru, 4,658,888, Cl 165-22.000.
Sakurai, Yoshihiko, 4,665,971, Cl. 165-22.000.
Sakurai, Yoshihiko, 4,711,295, Cl. 165-22.000.
Sakuranaka, Toru; Tajima, Yutaka; and Nakamura, Hisashi, 4,664,079, Cl. 123-370.000.
Shibuya, Tsunenori, 4,652,217, Cl. 417-269.000.
Shibuya, Tsunenori; and Ishizuka, Yutaka, 4,668,172, Cl 418-270.000.
Sugiura, Hiroyuki, 4,683,725, Cl. 62-199.000.
Sugiura, Hiroyuki, 4,715,196, Cl. 62-468.000.
Sumikawa, Seiji; and Noguchi, Ichiro, 4,677,830, Cl. 62-126.000.
Taira, Shigeo; and Ishibashi, Toru, 4,635,599, Cl. 123-300.000.
Taira, Shigeo, 4,635,600, Cl. 123-300.000.
Taira, Shigeo; and Ishibashi, Toru, 4,655,183, Cl. 123-449.000.
Takahashi, Tadahiro, 4,672,816, Cl. 62-180.000.
Takahashi, Tadahiro, 4,698,977, Cl. 62-133.000.
Takefuta, Hideyasu, 4,645,045, Cl. 192-3.620.
Takefuta, Hideyasu; and Seshima, Tatsuya, 4,662,491, Cl 192-0.032.
Takemasa, Masami, 4,677,902, Cl. 98-2.110.
Tomita, Itizo; and Okura, Eiji, 4,657,074, Cl. 165-179.000.
Usami, Yutaka, 4,660,387, Cl. 62-184.000.
Wakiya, Michio; Takefuta, Hideyasu; and Kono, Hiromi, 4,662,494, Cl. 192-0.052.
Yamada, Keiichi; and Abe, Tatsuhiko, 4,678,160, Cl. 251-129.020.
Yasuhara, Seishi; Hagiwara, Mitsuo; Inoue, Kazuo; Fujimori, Kyoichi; Sekiguchi, Akira; and Okada, Hiroshi, 4,638,782, Cl. 123-502.000.

Diesel Kiki Kabushiki Kaisha: *See—*
Iida, Katsumi, 4,688,389, Cl. 62-127.000.
Iida, Katsumi, 4,690,203, Cl. 165-25.000.
Noguchi, Kazuo; and Ooi, Shinichi, 4,698,980, Cl. 62-179.000.

Diessner, Eberhard; and Zahn, Ulrich, to Volkswagen Aktiengesellschaft. Method and device for filling a fluid friction clutch. 4,697,621, 10-6-87, Cl. 141-1.000.

Dietachmair, Herbert. Mixing pistol. 4,671,942, 6-9-87, Cl. 422-133.000.

Dietch, Leonard, to Zenith Electronics Corporation. Method for shadow mask protection during manufacture. 4,680,196, 7-14-87, Cl. 427-68.000.

Dietch, Leonard, to Zenith Electronics Corporation. Shadow mask having aperture occlusion prevention means. 4,705,357, 11-10-87, Cl. 350-322.000.

Dietenberger, Josef: *See—*
Sailer, Hubert; Dietenberger, Josef; and Ehrlinger, Friedrich J., 4,667,798, Cl. 192-70.120.

Dieter Grasslin Feinwerktechnik: *See—*
Kammerer, Gerd, 4,681,254, Cl. 236-42.000.

Dieter Schomann, Klaus: *See—*
Roos, Roland; Dieter Schomann, Klaus; and Muenzner, Wulf, 4,667,261, Cl. 360-130.210.

Dieterich, Karl-Eberhard: *See—*
Pecha, Ernst; Trost, Rudolf; Gneiting, Rudi; and Dieterich, Karl-Eberhard, 4,645,390, Cl. 408-233.000.

Dieterich Standard Corp.: *See—*
Coleman, Darrel F.; Kalin, Horst W.; and Verhaagen, Donald R., 4,645,242, Cl. 285-158.000.
Mesnard, David R.; and Kalin, Horst W., 4,633,713, Cl. 73-866.500.
Parkhurst, Larry E.; and Meadows, Michael R., 4,694,159, Cl. 250-227.000.

Dieterle, Hermann: *See—*
Blattner, Dietmar; Dieterle, Hermann; Leutwein, Manfred; and Simon, Horst, 4,698,883, Cl. 29-56.500.
Blattner, Dietmar; Dieterle, Hermann; Leutwein, Manfred; and Simon, Horst, 4,706,370, Cl. 29-564.200.

Diethelm & Co. AG: *See—*
Serou, Charles M.; and Brunner, Peter, 4,651,378, Cl. 15-49.00R.

Dietiker, Paul; and Nelson, Marvin D., to Honeywell Inc. Fluid pressure regulating valve having adjustable two-stage and natural-LP gas changeover capabilities. 4,637,429, 1-20-87, Cl. 137-505.140.

Dietl, Joachim, to Telefunken electronic GmbH. Push-pull generator. 4,704,561, 11-3-87, Cl. 315-219.000.

Dietl, Joachim: *See—*
Annacker, Ralph; and Dietl, Joachim, 4,695,807, Cl. 330-310.000.

Dietlein, John E.; and Hampton, Thomas C., to Dow Corning Corporation. Intumescent foamable compositions. 4,686,244, 8-11-87, Cl 523-179.000.

Dietrich, Albert; Katz, Peter; and Vincken, Josef, to Dornier GmbH. Cardan suspension for microphones for sound ranging in water. 4,674,075, 6-16-87, Cl. 367-173.000.

Dietrich, Albert, to Dornier GmbH. Generating gas pressure in an expansion chamber. 4,690,060, 9-1-87, Cl. 102-352.000.

Dietrich, Gerhard; Nestler, Gerhard; Ruckh, Peter; and Herzog, Reinhard, to BASF Aktiengesellschaft. Preparation of alkyl esters of α,β-monoolefinically unsaturated monocarboxylic acids. 4,675,436, 6-23-87, Cl. 560-205.000.

Dietrich, Harry B.: *See—*
Thompson, Phillip E.; and Dietrich, Harry B., 4,673,446, Cl 148-33.000.

Dietrich, Herbert, to Pfaff Industriemaschinen GmbH. Skin holder in an apparatus for letting out skins. 4,689,974, 9-1-87, Cl. 69-27.000.

Dietrich, Klaus. Photocathode for the infra-red range. 4,686,556, 8-11-87, Cl. 357-30.000.

Dietrich, Klaus: *See—*
Harasim, Anton; and Dietrich, Klaus, 4,699,468, Cl. 350-332.000.

Dietrich, Kurt; Stihler, Axel; and Theilacker, Wolfgang, to Stihler Medizintechnik GmbH. Device to heat infusion and transfusion solutions. 4,709,135, 11-24-87, Cl. 219-303.000.

Dietrich, Manfred; Dustmann, Cord-Heinrich; Schmaderer, Franz; and Wahl, Georg F. H., to Brown, Boveri & Cie AG; and Kernforschungszentrum Karlruhe GmbH. CVD process for the production of a superconducting fiber bundle. 4,657,776, 4-14-87, Cl. 427-38.000.

Dietrich, Manfred; Konig, Klaus; Hettel, Hans; Seifert, Peter; and Vehlewald, Peter, to Bayer Aktiengesellschaft. Stable dispersions of polyureas and/or polyhydrazo-dicarbonamides in relatively high molecular weight hydroxyl-group containing materials, a process for the production thereof and the use thereof for the production of polyurethane plastics. 4,668,734, 5-26-87, Cl. 524-714.000.

Dietrich, Rodney J. P. Self-leveling block. 4,698,949, 10-13-87, Cl 52-415.000.

Dietrich, Udo; and Hasselmann, Heinz, to Mannesmann AG. Two-rail trolley. 4,653,407, 3-31-87, Cl. 105-148.000.

Dietrich, William V., to Kastle Systems, Inc. Access control and security alarm apparatus and method. 4,689,610, 8-25-87, Cl. 340-515.000.

Dietsch, Armin: *See—*
Kiewitz, Hans-Christoph; Dietsch, Armin; and Tennie, Manfred, 4,664,872, Cl. 376-260.000.

Dietsche, Laura J.: *See—*
Campbell, Kent D.; Dietsche, Laura J.; Crampton, Lee B.; Hovda, Keith D.; Tyson, George K.; and Wilson, Charles A., 4,713,231, Cl. 423-356.000.

Dietsche, Thomas J.: *See—*
DesJardin, Michael A.; Dietsche, Thomas J.; and Orvik, Jon A., 4,713,460, Cl. 546-345.000.
Gray, Trevor E.; Grant, Charles B.; and Dietsche, Thomas J., 4,672,125, Cl. 546-345.000.
Humphreys, Paula L.; and Dietsche, Thomas J., 4,681,945, Cl 546-345.000.
Humphreys, Paula L.; Dietsche, Thomas J.; and Bixby, James L., 4,701,532, Cl. 546-345.000.
Orvik, Jon A.; and Dietsche, Thomas J., 4,705,859, Cl. 546-345.000.

Dietsche, Wolfram: *See—*
Ziegler, Walter; Dietsche, Wolfram; Weiss, Stefan; Mueller, Richard; Hettche, Albert; Glaser, Klaus; and Vamvakaris, Christos, 4,693,909, Cl. 427-156.000.

Dietz, David R.: *See—*
Gentry, Charles B.; and Dietz, David R., 4,675,826, Cl 364-477.000.

Dietz, Gudrun: *See—*
Koizumi, Yasuhiro; Torisawa, Soichi; Gartner, Walter; Dietz, Gudrun; and Retschke, Wolfgang, 4,704,348, Cl. 430-327.000.

Dietz, Gunter; and Nowak, Manfred, to Gebr. Happich GmbH. Sun visor, particularly for automotive vehicles, with reversible mirror. 4,635,994, 1-13-87, Cl. 296-97.00H.

Dietz, Gunter; Nowak, Manfred; and Kaiser, Klaus-Peter, to Gebr Happich GmbH. Sun visor for vehicles. 4,664,435, 5-12-87, Cl. 296-97.00H.

Dietz, Gunter, to Gebr. Happich GmbH. Sun visor for vehicles. 4,668,005, 5-26-87, Cl. 296-97.00H.

Dietz, Gunter: *See—*
Dabringhaus, Volker; Dietz, Gunter; Wegel, Peter; Bowman, H. David; Korber, Jurgen; and Seidl, Horst, 4,676,544, Cl. 296-37.900.
Mahler, Gert; Dietz, Gunter; and Falkenroth, Heinz-Jurgen, 4,646,879, Cl. 180-90.000.

Dietz, Karl-Jurgen: *See—*
Khan, Imran A.; Dietz, Karl-Jurgen; Waelbroeck, Francoise; and Wienhold, Peter, 4,634,454, Cl. 55-16.000.

Dietz, Peter W.: *See—*
Itani, Abdallah M.; Dietz, Peter W.; and Carlson, Gerald J., 4,680,532, Cl. 323-240.000.
Itani, Abdallah M.; Carlson, Gerald J.; and Dietz, Peter W., 4,680,533, Cl. 323-240.000.
Snaddon, Robert W. L.; and Dietz, Peter W., 4,654,054, Cl 55-131.000.

Dietz, Rainer: *See—*
Voggenreiter, Martin; Dietz, Rainer; and Poloczek, Erwin, 4,646,822, Cl. 165-166.000.

- Dietz, Wolfgang F. W., to RCA Corporation. Circuit synchronized by a signal at a deflection frequency. 4,634,939, 1-6-87, Cl. 315-399.000.
- Dietz, Wolfgang F. W., to RCA Corporation. S-correction circuit for a video display. 4,645,985, 2-24-87, Cl. 315-371.000.
- Dietz, Wolfgang F. W., to RCA Corporation. Video image blanking signal generator. 4,652,920, 3-24-87, Cl. 358-165.000.
- Dietz, Wolfgang F. W.; and Henig, Sammy S., to RCA Corporation. Synchronization circuit responsive to time-multiplexed signals. 4,660,080, 4-21-87, Cl. 358-158.000.
- Dietz, Wolfgang F. W., to RCA Corporation. Parabolic voltage generating circuit. 4,675,580, 6-23-87, Cl. 315-371.000.
- Dietz, Wolfgang F. W., to RCA Corporation. Raster positioning circuit for a deflection system. 4,675,581, 6-23-87, Cl. 315-398.000.
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  - Genevois, Jean L.; Lucia, Antonio; and Di Fabio, Emidio, 4,636,169, Cl. 432-90.000.
- DiFazio, Joseph: *See—*
  - Moosbrugger, Dennis S.; DiFazio, Joseph; and Watson, David N., 4,697,365, Cl. 40-546.000.
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- Digicon, Inc.: *See—*
  - Grice, Gordon T., 4,656,615, Cl. 367-13.000.
- DigiRad Corporation: *See—*
  - Alvarez, Robert; Lehmann, Leonard; and Strul, Bruno, 4,710,624, Cl. 250-228.000.
- Digital Associates Corporation: *See—*
  - Perlman, Eugene H.; and MacNaughton, Laurence, III, 4,641,263, Cl. 364-900.000.
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  - Bellamy, A. Keith, 4,700,272, Cl. 361-385.000.
  - Bhavsar, Dilip K., 4,669,061, Cl. 365-154.000.
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  - Leo, Cosmo L.; and Stefanick, Stanley W., 4,705,257, Cl. 248-611.000.
  - Mallary, Michael L., 4,695,351, Cl. 204-15.000.
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  - Oakes, Alan E., 4,715,036, Cl. 371-37.000.
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  - Shell, Stanley, 4,691,199, Cl. 340-710.000.
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  - Dorman, Arthur; Glave, William K.; and Birnbach, Curtis, 4,700,076, Cl. 250-370.000.
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  - Davies, Ronald C., 4,678,994, Cl. 324-236.000.
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  - Dresdner, Daniel, 4,667,236, Cl. 358-160.000.
  - McCoy, Reginald F. H., 4,667,222, Cl. 358-22.000.
  - Norman, James W., III, 4,647,971, Cl. 358-160.000.
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  - Lee, Chin-hui; and Wong, David Y., 4,689,760, Cl. 370-110.300.
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Dil, Jan G.: *See—*
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  Sharrit, David D.; Dildine, Robert G.; Roos, Mark D.; and Barr, John T., IV, 4,636,717, Cl. 324-77.00B.

Dilella, Antonio, to NCR Corporation. Method and apparatus for isolating image data for character recognition. 4,680,803, 7-14-87, Cl. 382-9.000.

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Dilger, Sigrid. Protective mask. 4,665,567, 5-19-87, Cl. 2-174.000.

Dilgren, Richard E.; and Owens, Kenneth B., to Shell Oil Company. Steam-foaming surfactant mixtures which are tolerant of divalent ions. 4,643,256, 2-17-87, Cl. 166-303.000.

Dill, Bernd, to Ciba-Geigy AG. Process for the preparation of anthraquinone imides. 4,659,831, 4-21-87, Cl. 546-31.000.

Dill, David M.; and Redmond, Holly F., to International Business Machines Corp. Terminal procedure for utilizing host processor log on and log off prompts. 4,698,757, 10-6-87, Cl. 364-300.000.

Dill, Frederick H.; Ling, Daniel T.; Matick, Richard E.; and McBride, Dennis J., to International Business Machines Corporation. Circuits for accessing a variable width data bus with a variable width data field. 4,667,305, 5-19-87, Cl. 364-900.000.

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Dill, Gerald M., Jr.; and Malloy Werner, Georgina M., to Union Carbide Corporation. Herbicide antidotes for cotton crops. 4,666,509, 5-19-87, Cl. 71-93.000.

Dill, Hans G.: *See—*
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  Rush, James B.; Bryan, James S.; Gunter, Jonas L.; Dillard, Gu W.; Meadows, Roger D.; and Henry, Pearison W., 4,637,638, C 285-158.000.
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Dillard, John A. B., III, to PJD Associates Inc. Water quality monitor. 4,708,791, 11-24-87, Cl. 210-96.200.

Dillard, Robert D.: *See—*
  Hirsch, Kenneth S.; Jones, Charles D.; Taylor, Harold M.; and Dillard, Robert D., 4,659,730, Cl. 514-396.000.

Diller, Calvin D.; and Burke, Michael J., to Tektronix, Inc. Low impedance switched attenuator. 4,684,881, 8-4-87, Cl. 323-354.000.

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Diller, Charles E., to Dresser Industries, Inc. Tube cutter with releasable drive. 4,712,302, 12-15-87, Cl. 30-107.000.

Diller, Hans, to Gebr. Fleischmann. Claw coupling for electric toy and model trains. 4,650,081, 3-17-87, Cl. 213-75.0TC.

Dilley, Gerald G., to Ben Clements & Sons, Inc. Twist tying machine. 4,655,264, 4-7-87, Cl. 140-93.600.

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Dillman, John S. Adjustable load binding hook. 4,700,917, 10-20-87, Cl. 248-228.000.

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Dillner, James R., to United Technologies Corporation. Workholder for securing a workpiece thereto. 4,685,660, 8-11-87, Cl. 269-7.000.

Dillon, Charles M.: *See—*
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Dillon, Diane M., to Union Oil Company of California. Hydrocarbon fuel composition containing orthoester and cyclic aldehyde polymer. 4,647,288, 3-3-87, Cl. 44-52.000.

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  Furfari, Frank; Harr, Leroy P.; and Dillon, Joseph J., 4,665,469, Cl. 362-66.000.

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Dillon, Stephen M. Decorative lens. 4,715,702, 12-29-87, Cl. 351-44.000.

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Dilmore, James A.: *See—*
  Draper, Robert; Young, William E.; Spurrier, Francis R.; and Dilmore, James A., 4,664,986, Cl. 429-26.000.

Dilny, Mike M. Method and means for determining golf ball impact. 4,676,508, 6-30-87, Cl. 273-186.00D.

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  Dilo, Richard; and Dilo, Johann P., 4,651,393, Cl. 28-111.000.

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DiLorenzo, Ralph N., to Always, Inc. Coffee brewing ring. 4,666,724, 5-19-87, Cl. 426-433.000.

Dilouya, Gilbert, to Cibie Projecteurs. Motor vehicle main beam headlamp incorporating an elliptical reflector and a parabolic reflector. 4,680,679, 7-14-87, Cl. 362-61.000.

Dilts, Ray A.: *See—*
  Benson, David A.; and Dilts, Ray A., 4,638,665, Cl. 72-389.000.

Di Luccio, Robert C.; Duggins, Ray B.; and Shefter, Eli, to Du Pont de Nemours, E. I. and Company. Pharmaceutical compositions containing hollow fine tubular drug delivery systems. 4,673,565, 6-16-87, Cl. 424-443.000.

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Dima, Attila F.: *See—*
  Katz, Carlos; Dima, Attila F.; and Eager, George S., Jr., 4,681,985, Cl. 174-73.00R.

Di Manno, Richard A.: *See—*
  Biletch, Harry A.; Di Manno, Richard A.; and Gorka, Robert J., 4,680,337, Cl. 525-53.000.

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Di Marco, Joel E.: *See—*
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Di Maria, Donelli J.; and Wolf, Hans P., to International Business Machines Corporation. Liquid crystal display and method for production. 4,662,719, 5-5-87, Cl. 350-332.000.

DiMartino, Stephen P., to Air Products and Chemicals, Inc. Production of hydrogen from ammonia. 4,704,267, 11-3-87, Cl. 423-648.00R.

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  Hopkins, Jeffrey A.; DiMartino, Stephen P.; and Nicholas, David M., 4,654,047, Cl. 62-23.000.
  Peterson, Janice C.; and DiMartino, Stephen P., 4,696,806, Cl. 423-248.000.

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  Bachman, William J.; and DiMeo, Franklin R., 4,635,809, Cl. 220-4.00B.
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  Pascal, Roger; and Dimier, Jean P., 4,679,815, Cl. 280-618.000.

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  Garlanov, Dimo T.; Dimitrov, Dimiter A.; Beloev, Marin G.; Hlebarov, Vladimir P.; Vangelov, Ivan V.; Nikov, Nikolay Y.; and Savov, Ivan S., 4,691,090, Cl. 219-121.0PC.

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  Nervig, Charles H.; and Dimmick, Vance E., 4,678,086, Cl. 211-47.000.

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  Van Der Puy, Michael; Soriano, David S.; and Dimmit, Jeffrey H., 4,705,896, Cl. 564-265.000.

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  Angott, Paul G., 4,654,541, Cl. 307-147.000.

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  Papworth, Charles D.; Pole, Andrew L.; Brake, Arthur L.; and Dimmock, Ivan H., 4,659,254, Cl. 405-205.000.

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  Shulof, George F.; and DiMonte, Michael J., 4,714,202, Cl. 241-30.000.

Dimora, Leonardo; and Minutillo, Emanuele, to Alfa Romeo Auto S.p.A. Automatically positionable spoiler for a motor vehicle. 4,659,130, 4-21-87, Cl. 296-1.00S.

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  Anderson, F. Allan; Chen, Henry C. J.; DiMucci, Vito A.; and Wang, Roger C., 4,691,496, Cl. 53-53.000.

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  Christodoulou, Spiros, 4,643,086, Cl. 99-574.000.
  Christodoulou, Spiros, 4,712,312, Cl. 34-57.00D.

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  De Lucchi, Ottorino; Filippuzzi, Fabiola; Modena, Giorgio; and Camera, Ettore, 4,713,466, Cl. 549-464.000.

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  Mallozzi, Joseph; Dinan, David E.; and Daniels, Edward P., 4,642,791, Cl. 364-900.000.

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Dinanath, Chandra, to Caribbean Industrial Research Institute. Coconut dehusking machine. 4,708,056, 11-24-87, Cl. 99-575.000.

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  Perichon, Jacques; Rabemanantsoa, Amelie; Sibille, Soline; and D'Incan, Esther, 4,637,863, Cl. 204-59.00R.

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  Goodell, Eston B.; and Dinda, Bruce L., 4,668,536, Cl. 427-235.000.

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  Wobick, Robert F.; Anderson, William B.; Counter, Louis F., and Dindinger, Phil M., 4,688,669, Cl. 198-712.000.

DiNello, Robert K., to Syva Company. Agglutination dependent enzyme channeling immunoassay. 4,663,278, 5-5-87, Cl. 435-7.000.

DiNello, Robert K.; Gibbons, Ian; and Ullman, Edwin F., to Syntex (U.S.A.) Inc. Enzymatic poly-reactant channeling binding assay. 4,687,735, 8-18-87, Cl. 435-7.000.

Dines, David R.; and Webb, Vertis C., to AT&T Technologies, Inc. Method and apparatus for bonding connector terminals to circuit boards. 4,653,682, 3-31-87, Cl. 228-180.200.

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Dines, Steven; Sfarti, Adrian; and Daniel, Andrew D., to Advanced Micro Devices, Inc. Rapid graphics bit mapping circuit and method. 4,648,049, 3-3-87, Cl. 364-521.000.

Ding, Kurt; Brandt, Helmut; and Wenzl, Josef, to MTU Motoren-und Turbinen-Union Munchen GmbH. Method and apparatus for measuring pressures in a rotor of a turbomachine. 4,703,326, 10-27-87, Cl. 340-870.160.

Ding, Kurt: *See—*
  Hofmann, Jorg; and Ding, Kurt, 4,707,130, Cl. 356-28.000.

Ding, Wolfgang; and Arnold, Werner, to ARBO Medizin-Technologie GmbH. Cable connector. 4,696,527, 9-29-87, Cl. 439-53.000.

Dingeldey, Robert A. Collapsible work table. 4,676,174, 6-30-87, Cl. 108-153.000.

Dinger, Hans; and Klotz, Helmut, to MTU-Motoren- und Turbinen-Union Friedrichshafen GmbH. Turbocharged internal combustion engine. 4,669,269, 6-2-87, Cl. 60-609.000.

Dinger, Horst; and Moosmann, Horst, to Gebruder Junghans GmbH. Safety device for a projectile fuse. 4,683,823, 8-4-87, Cl. 102-229.000.

Dinger, Horst; and Moosmann, Horst, to Gebruder Junghans GmbH. Impact switch for fuses. 4,715,281, 12-29-87, Cl. 102-216.000.

Dingerdissen, John J.; Mehta, Rajanikant; Nisbet, Louis J.; Shearer, Marcia C.; and Wasserman, Gail F., to SmithKline Beckman Corporation. *Kibdelosporangium aridum* SK&F-AAD-609. 4,694,069, 9-15-87, Cl. 530-317.000.

Dingerkus, Heinz-Ludwig, to Elektro-Mechanik GmbH. Control device for guiding a material web. 4,648,539, 3-10-87, Cl. 226-19.000.

Dinges, Reinhard: *See—*
  Gross, Jurgen; and Dinges, Reinhard, 4,643,580, Cl. 356-440.000.

Dinghs, Gerardus L.: *See—*
  De Poorter, Johannes A.; De Waard, Peter J.; Tijburg, Rudolf P.; and Dinghs, Gerardus L., 4,670,966, Cl. 29-569.00L.

Dingwall, Andrew G. F.; and Zazzu, Victor, to RCA Corporation. Comparator with cascaded latches. 4,691,189, 9-1-87, Cl. 340-347.0AD.

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Robbins, Kenneth E.; Ruggles, Stephen G.; Duncan, Dan; Williams, John C.; Tung, Stephen K.; Sumner, William J.; and Dinh, Cuong V., 4,643,645, Cl. 416-190.000.

Dinh, Didier, to NIVO S.A. Structural fixing devices for furniture. 4,636,104, 1-13-87, Cl. 403-191.000.

Dinh, Tri T. Cooking utensil for deep fat frying of food items. 4,656,929, 4-14-87, Cl. 99-407.000.

DiNinno, Frank P.; Leanza, William J.; Ratcliffe, Ronald W.; and Muthard, David A., to Merck & Co., Inc. 2-unsaturated alkylthiopen-2-em-3-carboxylic acids. 4,675,317, 6-23-87, Cl. 514-192.000.

DiNinno, Frank P.: *See—*

Christensen, Burton G.; DiNinno, Frank P.; Leanza, William J.; and Ratcliffe, Ronald W., 4,650,794, Cl. 514-210.000.

Dinius, Harold B., to Eli Lilly and Company. Powdered material apportioning apparatus. 4,671,430, 6-9-87, Cl. 222-135.000.

Dinizo, Stephen E.: *See—*

Kogan, Marcelo; Dinizo, Stephen E.; and Fancher, Llewellyn W., 4,714,493, Cl. 71-99.000.

Dinkel, Nancy A.; Goldstein, Bernard; and Ettenberg, Michael, to RCA Corporation. Semiconductor structure and devices. 4,691,320, 9-1-87, Cl. 372-45.000.

Dinkelmann, Friedrich, to Zinser Textilmaschinen GmbH. Spinning and spooling apparatus. 4,703,618, 11-3-87, Cl. 57-276.000.

Dinkin, Frederick: *See—*

Fox, Steve A.; Murray, Donald L.; and Dinkin, Frederick, 4,648,414, Cl. 132-43.00R.

Dinkins, Gilbert M., to General Electric Company. Method and apparatus for interference free communications between a remote handset and a host subscriber unit in a Cellular Radio Telephone System. 4,659,878, 4-21-87, Cl. 370-71.000.

Dinner, Mark E. W. Toothbrushes. 4,654,921, 4-7-87, Cl. 15-167.00R.

D'Innocente, Ralph: *See—*

DeSousa, Daniel A.; Gockel, Gary L.; D'Innocente, Ralph; and Jacuzzi, Roy A., 4,637,873, Cl. 210-169.000.

Di Nozzi, Robert D.: *See—*

Kidder, Robert A.; Vancelette, Stanley R.; Whalen, Willis B.; and Di Nozzi, Robert D., 4,646,676, Cl. 118-243.000.

Vancelette, Stanley R.; and Dinozzi, Robert D., 4,671,707, Cl. 406-74.000.

Dinsdale, Keith: *See—*

Peel, Christopher J.; Evans, Brian; Harris, Samuel J.; Noble, Brian; and Dinsdale, Keith, 4,636,357, Cl. 420-532.000.

Dinse, Merle L.: *See—*

Putman, Robert L.; and Dinse, Merle L., 4,648,241, Cl. 60-39.290.

Dinse, Wilhelm. Apparatus for the safety stoppage of mechanically moved tools, particularly automatic welding guns. 4,681,202, 7-21-87, Cl. 192-129.00A.

Dinse, Wolfgang, to Dr. Ing. Rudolf Hell GmbH. Mounting device for reproduction apparatus. 4,657,381, 4-14-87, Cl. 355-76.000.

Dinsky, Seth: *See—*

Barouh, Victor; and Dinsky, Seth, 4,710,047, Cl. 400-6[illegible].000.

Dinsmore, Jeffrey P.; and Pfeffer, George B., to ADC Telecommunications, Inc. Electrical connector. 4,693,537, 9-15-87, Cl. 439-399.000.

Dinsmore, Mark T., to Transkinetic Systems, Inc. Wide bandwidth ultra high stability FM telemetry transmitter. 4,635,296, 1-6-87, Cl. 455-113.000.

D'Intino, Adamo M.: *See—*

Fish, Aaron M.; Mazoff, Stanley S.; D'Intino, Adamo M.; and Somasundaram, Hariharan, 4,640,110, Cl. 70-269.000.

Dinu, Illeana D.: *See—*

Dinu, Romulus C.; and Dinu, Illeana D., 4,689,347, Cl. 514-557.000.

Dinu, Romulus C.; and Dinu, Illeana D., to Centrala Industriala de Medicamente Cosmetice Coloranti Si Lacuri. Medicinal composition for the treatment of certain neuroviruses. 4,689,347, 8 25-87, Cl. 514-557.000.

Dinur, Eldad: *See—*

Gorney, Moshe; and Dinur, Eldad, 4,687,143, Cl. 239-542.000.

Dionex Corporation: *See—*

Mar, Dav, 4,644,807, Cl. 73-864.620.

Tullsen, Thomas R., 4,700,059, Cl. 250-214.0AG.

Dionne, Robert. Device for preventing unauthorized removal of portable objects. 4,691,891, 9-8-87, Cl. 248-551.000.

DiOrazio, Joseph S.: *See—*

Grabbe, Dimitry; Korsunsky, Iosif; Klunk, Thomas M.; and DiOrazio, Joseph S., 4,695,111, Cl. 439-26[illegible].000.

Dioszegi, Mariann: *See—*

Bajusz, Sandor; Szell nee Hasenohrl, Erzsbet; Bagdy, Daniel; Barabas, Eva; Dioszegi, Mariann; Fittler, Zsuzsa; Jozsa, Ferencz; Horvath, Gyula; and Tomori nee Jozst, Eva, 4,703,036, Cl. 514-18.000.

Diot, Rene: *See—*

Czarniak, Jean-Christophe; and Diot, Rene, 4,656,435, Cl. 330-253.000.

Dipac Associates: *See—*

Dickinson, Norman L., 4,714,032, Cl. 110-347.000.

DiPaola, Donald A.; Kremer, Robert M.; and Gallagher, Kevin C., to Allied Corporation. Energy absorber having a limited stroke. 4,674,801, 6-23-87, Cl. 297-472.000.

DiPaolo, Vincent. Grass catcher with efficient air flow. 4,665,684, 5-19-87, Cl. 56-202.000.

DiPardo, Robert M.: *See—*

Bock, Mark G.; DiPardo, Robert M.; Boger, Joshua S.; Evans, Ben E.; and Freidinger, Roger, 4,636,491, Cl. 514-16.000.

DiPiazza, Philip S.; Lynn, Dale E.; and Weber, Donald J., to American Telephone & Telegraph Company, AT&T Information Systems Inc. Adaptive thresholding scheme for optically-based touch screens. 4,707,689, 11-17-87, Cl. 340-706.000.

DiPietro, Vincent. Magnetic alignment toy. 4,673,369, 6-16-87, Cl. 446-133.000.

DiPisa, Joseph A., Jr., to Becton, Dickinson and Company. Percutaneously deliverable intravascular filter prosthesis. 4,662,885, 5-5-87, Cl. 623-12.000.

DiPisa, Joseph A., Jr., to Becton, Dickinson and Company. Percutaneously deliverable intravascular occlusion prosthesis. 4,705,517, 11-10-87, Cl. 623-12.000.

Dipl.-Ing. A. Loedige GmbH: *See—*

Lodige, Rudolf; Leonhard, Bernhard; and Stille, Volker, 4,681,211, Cl. 198-789.000.

Dipl. Ing. H. List Industrielle Verfahrenstechnik: *See—*

List, Heinz; and Kunz, Alfred, 4,650,338, Cl. 366-85.000.

Dippert, William H.: *See—*

Mayling, Rudolf M., 4,660,230, Cl. 2-413.000.

DiPrizio, Giuseppe M.: *See—*

Townsend, Greg M.; and DiPrizio, Giuseppe M., 4,713,553, Cl. 307-64.000.

Dirck, Ronald L. Removable cab top for vehicles. 4,679,847, 7-14-87, Cl. 296-218.000.

Directia Sanitara a Judetului Neamt Laboratoarele Plantavorel: *See—*

Elthes, Ludovic L.; and Elthes, Aristina, 4,704,281, Cl. 424-195.100.

Director General, Agency of Industrial Science and Technology: *See—*

Higuchi, Matsuo; Komura, Osamu; and Kamijo, Eiji, 4,702,869, Cl. 264-65.000.

Director-General of Agency of Industrial Science and Technology: *See—*

Arakawa, Tatsumi; Ozaki, Masaru; and Ikeda, Yukihiro, 4,701,317, Cl. 423-445.000.

Doi, Yoshihiko; Kuroishi, Nobuhito; Ochi, Shigeki; and Uenishi, Noboru, 4,710,345, Cl. 419-28.000.

Enzaki, Yoshiki; Kitahara, Kazuki; Terasaka, Satoru; Mori, Kenji; and Kimura, Takeshi, 4,695,247, Cl. 431-352.000.

Honda, Tatsutoku; Endo, Michiyuki; Wakamatsu, Saburo; and Kudo, Yoshio, 4,682,855, Cl. 350-276.00R.

Ikari, Yoshikatsu; Yokoyama, Shoichiro; Ohama, Chiaki; and Fukui, Ryosuke, 4,670,288, Cl. 427-4.000.

Inoue, Tomoyasu; Tango, Hiroyuki; Suguro, Kyoichi; Higashinakagawa, Iwao; and Hamasaki, Toshihiko, 4,662,949, Cl. 148-1.500.

Inoue, Toshihide; Hirai, Toshimasa; and Okamoto, Masaru, 4,663,422, Cl. 528-176.000.

Matsumura, Kiichiro; Takahashi, Akio; and Tsukamoto, Jun, 4,666,736, Cl. 427-52.000.

Matsumura, Kiichiro; Takahashi, Akio; and Tsukamoto, Jun, 4,673,720, Cl. 526-285.000.

Miyai, Yoshitaka; Ooi, Kenta; and Kato, Shunsaku, 4,665,049, Cl. 502-400.000.

Mori, Masaaki; Sano, Akira; Horiuchi, Yushi; and Okumura, Yoshihiro, 4,640,023, Cl. 34-57.00A.

Odagiri, Nobuyuki; and Tobukuro, Kuniaki, 4,670,536, Cl. 528-229.000.

Okado, Hideo; Shoji, Hiroshi; Takaya, Haruo; Kawamura, Kichinari; and Yamazaki, Yasuyoshi, 4,636,482, Cl. 502-60.000.

Seijiro, Sasai; Tadanobu, Fujimoto; and Kyozo, Tsukamoto, 4,654,304, Cl. 435-240.000.

Tanaka, Masato; and Ohtsuka, Kanji, 4,689,431, Cl. 562-406.000.

Yamashita, Hiroshi; Fujii, Kanenaga; Hayakawa, Junji; Komiyama, Toru; and Tamaru, Sinji, 4,673,243, Cl. 350-96.150.

Director of National Aerospace Laboratory of Science and Technology Agency, Shun Takeda, The: *See—*

Niino, Masayuki; Yatsuyanagi, Nobuyuki; Kumakawa, Akiraga; Suzuki, Akio; Gomi, Hiromi; Sakamoto, Hiroshi; Sasaki, Masaki; Masuda, Yoshimichi; Watanabe, Ryuzo; Takekawa, Junjiro; Ohtsuki, Etsuo; and Isago, Terashi, 4,703,620, Cl. 60-260.000.

Director of National Food Research Institute: *See—*

Noguchi, Akinori, 4,642,241, Cl. 426-634.000.

Director of National Food Research Institute, Ministry of Agriculture, Forestry and Fisheries: *See—*

Kobayashi, Shoichi; and Kainuma, Keiji, 4,668,626, Cl. 435-95.000.

Director of The Finance Division Minister's Secretariat Science and Technology Agency: *See—*

Ogawa, Masashi; and Tamaki, Hiroyuki, 4,699,705, Cl. 204-299.00R.

Shiraishi, Hisashi; Suyefuji, Mineo; and Kato, Masashi, 4,699,680, Cl. 156-242.000.

DiRico, Mark A. Coating printed sheets. 4,685,414, 8-11-87, Cl. 118-46.000.

Dirk, William C.: *See—*

Chemali, Roland E.; and Dirk, William C., 4,646,026, Cl. 324-373.000.

Dirkin, William; and Feldt, Gary, to Pneumo Abex Corporation. Clevis connection. 4,684,280, 8-4-87, Cl. 403-157.000.

Dirkin, William; Douglass, Duane; Tootle, James N.; and Benton, Terry L., to Pneumo Corporation. Fluid actuator including composite cylinder assembly. 4,685,384, 8-11-87, Cl. 92-166.000.

Dirkin, William; Douglass, Duane; Tootle, James N.; and Benton, Terry L., to Pneumo Corporation. Dual tandem composite cylinder assembly. 4,697,499, 10-6-87, Cl. 92-151.000.

Dirkin, William, to Pneumo Abex Corporation. Composite pressure vessel including fluid port with replaceable seal in composite sidewall structure and method of constructing such fluid port. 4,700,868, 10-20-87, Cl. 220-465.000.

Dirks, Albertus G.; and Brongersma, Hidde H., to U.S. Philips Corporation. Optically readable information disc having a reflection layer formed from a metal alloy. 4,709,363, 11-24-87, Cl. 369-275.000.

Dirks, Rolf, to Felten & Guilleaume Energietechnik GmbH. Locking mechanism for doors of switching cells. 4,674,305, 6-23-87, Cl. 70-139.000.

Dirks, Wolfgang: *See—*

Patel, Shailesh; and Dirks, Wolfgang, 4,707,754, Cl. 360-106.000.

Dirksing, Robert S., to Procter & Gamble Company, The. Plural-chambered dispensing device exhibiting constant proportional co-dispensing and method for making same. 4,678,103, 7-7-87, Cl. 222-130.000.

Dirksing, Robert S.: *See—*

Weinshenker, Eugene; and Dirksing, Robert S., 4,664,651, Cl. 604-115.000.

Dirksmeier, Ulrich; Kamp, Franz; and Fringes, Wilhelm, to R. & G. Schmoele Metallwerke GmbH & Co. KG. Valve arrangement. 4,660,601, 4-28-87, Cl. 137-613.000.

Dirlikov, Stoil K., to Dow Chemical Company, The. Novel condensation polymers containing units from 8,9-bis(hydroxyalkyl)-exo-3,4,5-trithiatricyclo[5.2.1.0^{2,6}]decane. 4,663,416, 5-5-87, Cl. 528-73.000.

Dirlikov, Stoil K.; and Schneider, Connie J., to Dow Chemical Company, The. Process for selective halogenation of primary hydroxyl groups. 4,709,059, 11-24-87, Cl. 549-453.000.

Dirmeyer, Josef; Kathmann, Heinz; Merkle, Franz; Oberberger, Franz; Wilhelm, Walter; and Wimmer, Josef, to Siemens Aktiengesellschaft. Connector plug having a radio frequency suppression filter. 4,700,157, 10-13-87, Cl. 333-185.000.

DiRocco, Jobbie. Heat pad. 4,708,608, 11-24-87, Cl. 425-14.000.

Di Rosa, Gaetano, to Fata European Group S.p.A. Automatic system for assembly and welding of motor vehicle bodies. 4,659,895, 4-21-87, Cl. 219-79.000.

Dirr, Josef. Method for coded transmission of color television signals. 4,675,721, 6-23-87, Cl. 358-13.000.

Dis Corporation, The: *See—*

Fleming, Chet, 4,666,425, Cl. 604-4.000.

DiSalvo, Anthony L.: *See—*

Goswami, Jagadish C.; Rehder, Richard A.; and DiSalvo, Anthony L., 4,652,398, Cl. 252-514.000.

DiSanto, Frank J.; and Krusos, Denis A., to Copytele, Inc. Electrophoretic display panels and associated methods. 4,655,897, 4-7-87, Cl. 204-299.00R.

Disc Technology Corporation: *See—*

Hopkins, Allen B.; and Dockx, John P., 4,645,401, Cl. 414-222.000.

Disch, Karlheinz; Hachmann, Klaus; and Pagel, Juergen, to Henkel Kommanditgesellschaft auf Aktien. Disinfectant solutions having improved corrosion properties. 4,661,523, 4-28-87, Cl. 514-635.000.

Disch, Karlheinz; and Kiewert, Eva, to Henkel Kommanditgesellschaft auf Aktien. Aqueous liquid cleaner containing an anionic surfactant and an ethoxylated aliphatic vicinal hydroxyamine. 4,666,615, 5-19-87, Cl. 252-11.000.

Disch, Karlheinz: *See—*

Gerhardt, Werner; Fischer, Herbert; Lehmann, Rudolf; Disch, Karlheinz; and Leinen, Hans T., 4,652,585, Cl. 514-563.000.

Discher, Vernon L.; Holen, Larry K.; and Mehl, Donald N., to Norfab, Inc. Door frame structure. 4,665,652, 5-19-87, Cl. 49-460.000.

Dischert, Robert A., to RCA Corporation. Progressive scan display system employing line and frame memories. 4,641,188, 2-3-87, Cl. 358-140.000.

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Dischert, Robert A.; Topper, Robert J.; and Shyu, William M., to RCA Corporation. Progressive scan processor with plural frequency band interpolation. 4,673,978, 6-16-87, Cl. 358-140.000.

Dischert, Robert A.; and Topper, Robert J., to RCA Corporation. Interpolation filter with motion compensation. 4,677,483, 6-30-87, Cl. 358-140.000.

Dischert, Robert A.; Ader, Joseph R.; and Topper, Robert J., to RCA Corporation. Luminance/chrominance separation circuitry. 4,684,977, 8-4-87, Cl. 358-31.000.

Dischert, Robert A.: *See—*

Moles, Warren H.; and Dischert, Robert A., 4,636,841, Cl. 358-31.000.

Topper, Robert J.; and Dischert, Robert A., 4,679,084, Cl. 358-160.000.

Di Schiena, Michele G., to Chinoin S.p.A. Econazole-acexamic acid addition compound having antimycotic, cicatrizing and antiinflammatory activity. 4,657,923, 4-14-87, Cl. 514-399.000.

Di Schiena, Michele G. Tris-hydroxymethyl) aminomethane salt of 4-chloro-N-furfuryl-5-sulfamoyl anthranilic acid and duiretic compositions containing the same. 4,698,361, 10-6-87, Cl. 514-471.000.

Di Schino, Giancarlo: *See—*

Podrini, Maurizio; Ferretti, Alessandro; and Di Schino, Giancarlo, 4,671,433, Cl. 222-606.000.

Discko, John, Jr.: *See—*

Dragan, William B.; and Discko, John, Jr., 4,654,027, Cl. 604-99.000.

Disco Abrasive Systems, Ltd.: *See—*

Mori, Toshiyuki, 4,693,036, Cl. 51-131.300.

Nonaka, Yuzo, 4,696,712, Cl. 156-351.000.

Ono, Takatoshi, 4,652,135, Cl. 356-401.000.

Ono, Takatoshi, 4,688,540, Cl. 125-13.00R.

Sekiya, Shinji, 4,705,016, Cl. 125-13.00R.

Tamura, Shinichi; and Uga, Masanori, 4,672,557, Cl. 364-490.000.

Discovery Toys, Inc.: *See—*

Wichman, William J.; and Troup, Edward M., deceased, 4,713,038, Cl. 446-168.000.

Discovision Associates: *See—*

Dakin, Wayne R., 4,638,377, Cl. 358-343.000.

Dakin, Wayne R., 4,703,368, Cl. 358-342.000.

Eberly, Carlyle J., 4,648,084, Cl. 369-46.000.

Efron, Edward; McPherson, James O.; and Kim, Young B., 4,682,246, Cl. 358-335.000.

Elliott, James E., 4,703,467, Cl. 369-44.000.

Giddings, Gary M., 4,701,898, Cl. 369-32.000.

Giddings, Gary M., 4,706,133, Cl. 358-342.000.

Disdier, Camille: *See—*

Regimbeau, Guy; Augelmann, Gerard; and Disdier, Camille, 4,701,560, Cl. 564-404.000.

Dishart, Kenneth T.: *See—*

Baitinger, Stacey A.; Brothers, Robert C.; and Dishart, Kenneth T., 4,645,710, Cl. 428-317.700.

Disher, Brennan C.; and Tate, Steven H., to Texaco Inc. Method and apparatus for drilling a group of subsea wells. 4,681,173, 7-21-87, Cl. 175-7.000.

Dishman, James L.: *See—*

Ashby, Carol I. H.; and Dishman, James L., 4,648,936, Cl. 156-643.000.

Ashby, Carol I. H.; and Dishman, James L., 4,648,938, Cl. 156-643.000.

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Dishner, Bryan W.; Juarros, Richard D.; and Dhyanchand, P. John, to Sunstrand Corporation. Power converter for an electrically-compensated constant speed drive. 4,695,776, 9-22-87, Cl. 318-14.000.

Dishner, Bryan W.: *See—*

Baker, Robert C.; and Dishner, Bryan W., 4,697,090, Cl. 290-4.00R.

DiSimone, Donald J. Remote telephone control apparatus. 4,700,385, 10-13-87, Cl. 379-448.000.

Diskin, John P.: *See—*

Battaglia, Maryann; and Diskin, John P., 4,669,461, Cl. 128-202.150.

Diskin, Stephen P.: *See—*

Lerner, Lawrence; and Diskin, Stephen P., 4,682,670, Cl. 181-287.000.

Lerner, Lawrence; and Diskin, Stephen P., 4,705,484, Cl. 439-502.000.

Disko, Harry: *See—*

Kulesza, Ralph J.; Disko, Harry; and Gibbons, Dennis R., 4,669,997, Cl. 446-133.000.

Kulesza, Ralph J.; Wozniak, Walter J.; and Disko, Harry, 4,708,690, Cl. 446-351.000.

Rasmussen, Russell G.; Stubenfoll, Leonard J.; and Disko, Harry, 4,710,146, Cl. 446-308.000.

Welch, Bennie R.; Rasmussen, Russell G.; and Disko, Harry, 4,696,654, Cl. 446-268.000.

Diskowski, Jorg; Jeppel, Wolfgang; Moisel, Hartmut; and Spiess, Hans P., to Hellige GmbH. Method and device for the automatic calibration of measuring and indicating appliances for the determination of partial pressure of a gas. 4,674,061, 6-16-87, Cl. 364-571.000.

Dislich, Helmut; Arfsten, Nanning J.; Schmidt, Helmut; Philipp, Gottfried; and Tuenker, Gerhard, to Schott Glaswerke. Process of making optical blanks. 4,715,999, 12-29-87, Cl. 264-1.100.

Dismon, Peter: *See—*

Weidenhaupt, Wolfgang; and Dismon, Peter, 4,679,387, Cl. 57-212.000.

Dismukes, Newton B. Downhole motor assembly. 4,646,856, 3-3-87, Cl. 175-107.000.

Disney, Daniel J.: *See—*

Thompson, Richard F.; Disney, Daniel J.; Quek, Swee-meng; and Westerfeld, Eric C., 4,701,844, Cl. 364-200.000.

Dispas, Jean P. Dual brake adjustments for fishing reels. 4,676,451, 6-30-87, Cl. 242-84.50A.

Dispenziere, Nicholas C., Jr.: *See—*

Murrell, Lawrence L.; Dispenziere, Nicholas C., Jr.; and Polizzotti, Richard S., 4,692,428, Cl. 502-254.000.

Murrell, Lawrence L.; and Dispenziere, Nicholas C., Jr., 4,708,945, Cl. 502-263.000.

Display-Design GmbH fur moderne Verkaufsforderungsmittel und Raumausstattung: *See—*

Lang, Franz J., 4,678,089, Cl. 211-133.000.

Disposable Waste Systems, Inc.: *See—*

Chambers, Joseph W., Sr.; and Nona, Jerry R., 4,702,422, Cl. 241-46.060.

Graham, Rodney E., 4,707,150, Cl. 384-481.000.

Dispoto, Gary J.; Mather, Larry R.; and Meyer, John D., to Hewlett-Packard Company. Method for rendering gray scale images with variable dot sizes. 4,680,645, 7-14-87, Cl. 358-298.000.

Disser, Robert J., to General Motors Corporation. PWM motor operating system with RFI suppression. 4,673,851, 6-16-87, Cl. 318-341.000.

Disser, Robert J.: *See—*

Lehnhoff, Richard N.; and Disser, Robert J., 4,710,685, Cl. 318-287.000.

Dissett, Walter L., to Tractech, Inc. Torque-proportioning differential with cylindrical spacer. 4,677,876, 7-7-87, Cl. 74-715.000.

Dissosway, Marc A.: *See—*
Childress, Jeffery S.; Dissosway, Marc A.; and Hughes, Houston H., III, 4,682,367, Cl. 455-17.000.
Distaffen, Patsy S. Fishing lure of the spoon type. 4,713,906, 12-22-87, Cl. 43-42.500.
Di Stazio, Giovanni: *See—*
Sisto, Alessandro; Verdini, Antonio S.; Virdia, Antonino; De Luca, Giovanna; Di Stazio, Giovanni; and Politi, Vincenzo, 4,713,368, Cl. 514-18.000.
DiStefano, Thomas H.; Hollis, Ralph L., Jr.; Johnson, Mark; and Wang, Sherman S., to International Business Machines Corporation. Format patterning method for magnetic recording media. 4,684,547, 8-4-87, Cl. 427-131.000.
Distel, Robert; and Kugland, Peter, to Bayerische Motoren Werke Aktiengesselschaft. Method and apparatus for regenerating a soot filter of internal combustion engines. 4,698,966, 10-13-87, Cl. 60-274.000.
Disteldorf, Josef; Hubel, Werner; and Wolf, Elmar, to Chemische Werke. Isocyanate-uretdiones and a method for their production. 4,668,780, 5-26-87, Cl. 540-202.000.
Distin, Robert; and Shaffer, James, to Advanced Energy Concepts '81 Ltd. Speed reducing gearing mechanism employing trochoidally formed gear surfaces for rolling torque transmission. 4,643,047, 2-17-87, Cl. 74-804.000.
Distl, Richard; and Schmidt, Ulrich. Dual-beam-real-time polarimeter. 4,671,660, 6-9-87, Cl. 356-367.000.
Distl, Richard: *See—*
Schmidt, Ulrich; and Distl, Richard, 4,699,514, Cl. 356-367.000.
Distributors Processing Inc.: *See—*
Goodall, S. Richard, 4,657,766, Cl. 426-309.000.
DIT-MCO International Corp.: *See—*
DeLapp, Dennis W.; and Roebuck, Richard K., 4,686,467, Cl. 324-158.00F.
Ditchek, Brian M.: *See—*
Bulat, Emel S.; Ditchek, Brian M.; and Butler, Scott J., 4,713,358, Cl. 437-65.000.
Ditcher, Jack, to A-Lok Products Corporation. Apparatus for forming inverts and manhole assemblies. 4,685,650, 8-11-87, Cl. 249-83.000.
Ditcher, Jack; and Westhoff, James A., to A-Lok Products Corporation. Gasket for use in manholes and including clamping band having cooperating projections and grooves for preventing relative axial movement of the opposing ends of the clamping band during installation and for facilitating expansion by an expansion jack. 4,711,455, 12-8-87, Cl. 277-9.500.
Ditchfield, Neville J., to BICC Public Limited Company. Coil package. 4,667,824, 5-26-87, Cl. 206-408.000.
Ditman, John G., to Foster Wheeler USA Corporation. Process of preparing a donor solvent for coal liquefaction. 4,663,028, 5-5-87, Cl. 208-428.000.
Ditsch, John R.; Williams, Theodore G.; and Berrios, Luis H., to HDS, Inc. Hand development system. 4,678,181, 7-7-87, Cl. 272-68.000.
Ditscheid, Hans L.; and Burger, Walter, to U.S. Philips Corporation. Optical cable element and cable, respectively, and method of manufacturing same. 4,659,174, 4-21-87, Cl. 350-96.230.
Ditta Cipelletti Alberto: *See—*
Cipelletti, Alberto, 4,655,605, Cl. 366-312.000.
Cipelletti, Alberto, 4,706,473, Cl. 62-342.000.
Dittell, Edward W. Cooling and heating apparatus. 4,633,676, 1-6-87, Cl. 62-238.600.
Ditter, Bernhard: *See—*
Urbascheck, Bernhard; Becker, Klaus-Peter; and Ditter, Bernhard, 4,663,298, Cl. 436-502.000.
Ditterline, Andrew F., Jr.; and Mann, James A., Jr. Support base for supporting a motorcycle. 4,662,617, 5-5-87, Cl. 269-16.000.
Dittert, Karen K., to Exxon Production Research Co. Method for filtering and combining seismic data having different spectral characteristics. 4,715,021, 12-22-87, Cl. 367-41.000.
Dittman, William J.; and Ward, Luther S., to Georgia Tech Research Corporation. Waterproof seal assembly for electrical connector. 4,702,710, 10-27-87, Cl. 439-271.000.
Dittman, William J.: *See—*
Weeks, James F.; Weeks, J. Richard; and Dittman, William J., 4,688,740, Cl. 242-96.000.
Dittmann, Michael, to Siemens Aktiengesellschaft. Contact arrangement in a relay for high breaking capacity. 4,683,358, 7-28-87, Cl. 200-243.000.
Dittmann, Michael, to Siemens Aktiengesellschaft. Electromagnetic relay. 4,684,909, 8-4-87, Cl. 335-128.000.
Dittmann, Michael; and Stadler, Heinz, to Siemens Aktiengesellschaft. Armature retaining spring and coil flange contact chamber for an electromagnetic relay. 4,684,910, 8-4-87, Cl. 335-274.000.
Dittmann, Michael: *See—*
Kern, Josef; and Dittmann, Michael, 4,647,743, Cl. 200-275.000.
Dittmar, Armin: *See—*
Alsdorf, Hermann; and Dittmar, Armin, 4,670,056, Cl. 106-105.000.
Dittmar, Norman R. Device for detecting metallic ticking sounds. 4,665,735, 5-19-87, Cl. 73-6.000.
Dittmar, Robert W.; and Schmiedberg, Winfried, to United Engineering Rolling Mills, Inc. Universal rolling mill. 4,706,484, 11-17-87, Cl. 72-225.000.
Dittmar, Walter; Futterer, Eberhard; and Lohaus, Gerhard, to Hoechst Aktiengesellschaft. Cosmetic compositions. 4,711,775, 12-8-87, Cl. 424-70.000.
Dittmar, Wilfried: *See—*
Franz, Reinhard; Dittmar, Wilfried; Scheidegger, Christian; and Frohlich, Roland, 4,644,840, Cl. 84-1.010.
Dittmer, Catherine A.: *See—*
Uken, William D.; Dubrow, Robert S.; Nelson, Carib; and Dittme
Catherine A., 4,690,831, Cl. 427-44.000.
Dittner, Adam; Hutterer, Werner; and Sauer, Joachim, to FAG Kugel
fischer Georg Schafer KGaA. Friction clutch operated pressur
modulator. 4,691,813, 9-8-87, Cl. 192-13.00R.
Dittrich, Thomas M.: *See—*
Stone, William S.; and Dittrich, Thomas M., 4,647,051, Cl. 27
1.00D.
Stone, William S.; and Dittrich, Thomas M., 4,662,043, Cl. 2
33.00P.
Dittrich, Volker: *See—*
Buschmann, Falk; Foerster, Karl-Heinz; Eichler, Volker; Heibe
Hartmut; and Dittrich, Volker, 4,661,919, Cl. 364-569.000.
Dittrich, Volkmar: *See—*
Buschmann, Falk; Foerster, Karl-Heinz; Eichler, Volker; Heibe
Hartmut; and Dittrich, Volkmar, 4,653,077, Cl. 377-2.000.
Buschmann, Falk; Foerster, Karl-Heinz; Eichler, Volker; Heibe
Hartmut; and Dittrich, Volkmar, 4,661,918, Cl. 364-569.000.
Buschmann, Falk; Foerster, Karl-Heinz; Eichler, Volker; Heibe
Hartmut; and Dittrich, Volkmar, 4,669,050, Cl. 364-569.000.
Dittrich, Volmar: *See—*
Buschmann, Falk; Foerster, Karl-Heinz; Eichler, Volker; Heibe
Hartmut; and Dittrich, Volmar, 4,665,498, Cl. 364-569.000.
DiTucci, Joseph: *See—*
Welch, David W.; Czarnecki, Carl G.; and DiTucci, Josep
4,664,217, Cl. 180-247.000.
Ditzig, Albert, to Telephone Products, Inc. Rotary electrical connect
apparatus. 4,673,228, 6-16-87, Cl. 439-21.000.
DiValentin, Eugene D.; and Healy, Henry S., to United Technolog
Corporation. Torque control for a variable speed wind turb
4,703,189, 10-27-87, Cl. 290-44.000.
DiValentin, Eugene D.: *See—*
Doman, Glidden S.; Kos, Joseph M.; Harner, Kermit I.; DiValentin, Eugene D.; and Healy, Henry S., 4,695,736, Cl. 290-44.0
Dive N'Surf, Inc.: *See—*
Meistrell, Robert W., 4,692,002, Cl. 351-156.000.
Meistrell, William R., 4,700,406, Cl. 2-22.000.
Meistrell, William R., 4,706,673, Cl. 128-402.000.
Dively, Lee V.; and Grubbs, Jack M., to Seiscor Technologies, In
Coin operated telephone. 4,698,840, 10-6-87, Cl. 379-112.000.
Divens, William G.; Cole, William B.; Leitner, Michael W.; and Bla
David A., to Optoscan Corporation. Laser-based wafer measuri
system. 4,656,358, 4-7-87, Cl. 250-372.000.
Divers, George A., III: *See—*
Bannick, Mark A.; Divers, George A., III; and Jansons, Vikto
4,693,851, Cl. 260-544.00D.
Divers, R. Thomas: *See—*
Cudahy, Michael J.; De La Huerga, Carlos; Arneson, Harold N
Divers, R. Thomas; and Altman, Barry J., 4,715,385, C
128-710.000.
Diversco, Inc.: *See—*
Freed, Mark L., 4,697,492, Cl. 84-1.160.
Diversey Wyandotte Corporation: *See—*
Lopes, John A.; and Stanton, James H., 4,715,980, Cl. 252-106.0
Diversified Group, Inc.: *See—*
Canter, Stanton J., 4,646,921, Cl. 211-126.000.
Diversified Manufacturing Corporation: *See—*
Bald, Gordon H., 4,635,462, Cl. 72-385.000.
Diversified Petroleum Recovery, Inc.: *See—*
Babcock, Robert E.; Beaver, W. Hardey; and Wood, F. Diam
4,673,484, Cl. 208-435.000.
Diversified Products Corporation: *See—*
Rockwell, Gary L., 4,634,127, Cl. 272-134.000.
Rockwell, Gary L., 4,691,918, Cl. 272-134.000.
Rockwell, Gary L., 4,697,809, Cl. 272-118.000.
Seal, John, 4,662,631, Cl. 272-123.000.
Diversitech Corporation: *See—*
Turner, George S., 4,674,245, Cl. 52-177.000.
Divetronic AG: *See—*
Hermann, Jurgen, 4,664,635, Cl. 434-365.000.
DiVincenzo, Gregory T.: *See—*
Ciarcia, Ronald D.; DiVincenzo, Gregory T.; Bernier, Richard E
and Nagy, Joseph G., 4,679,016, Cl. 335-132.000.
Ciarcia, Ronald D.; DiVincenzo, Gregory T.; Dougnty, Dennis
and Bernier, Richard E., 4,698,903, Cl. 29-622.000.
Doughty, Dennis J.; Seymour, Raymond K.; Ciarcia, Ronald D
and DiVincenzo, Gregory T., 4,650,272, Cl. 339-198.00R.
diVincenzo, Guido A. Apparatus for visually monitoring and contr
ling the liquid flow in a pressure line. 4,651,780, 3-24-87, C
137-559.000.
DiVincenzo, Maureen. Needlecraft with metallic substrate. 4,711,8
12-8-87, Cl. 428-131.000.
Divins, Larry A.; and Runion, Harold L., to General Electric Co
pany. Continuous process for the production of powdered urani
dioxide from uranyl nitrate. 4,656,015, 4-7-87, Cl. 423-261.000.
Divis, Richard T.: *See—*
Dilbert, Meredith N.; Forseth, Glenn J.; Jones, William R., Jr.; a
Divis, Richard T., 4,692,312, Cl. 422-151.000.
Divisek, Jiri; and Malinowski, Peter, to Kernforschungsanlage Ju
GmbH. Diaphragm for alkaline electrolysis and process for manuf
ture of diaphragm. 4,636,291, 1-13-87, Cl. 204-283.000.
Divisek, Jiri; Furst, Leander; Kastening, Bertel; and Luft, Harald,
Kernforschungsanlage Julich GmbH. Process for reduction or oxi
tion of materials in water solution by passing a gas through a catal

immersed in solution in the presence of electrically conducting bodies. 4,645,607, 2-24-87, Cl. 210-719.000.

Di Vita, Pietro; and Potenza, Marcello, to Cselt - Centro Studi e Laboratori Telecomunicazioni S.p.A. Semiconductor lasers. 4,703,488, 10-27-87, Cl. 372-44.000.

Di Vita, Pietro: *See—*

Coppa, Gianni; and Di Vita, Pietro, 4,657,388, Cl. 356-73.100.

Coppa, Gianni; and Di Vita, Pietro, 4,662.744, Cl. 356-73.100.

Coppa, Gianni; and Di Vita, Pietro, 4,664,516, Cl. 356-73.100.

DiVito, Enrico E. Oral hygiene apparatus. 4,672,953, 6-16-87, Cl. 128-66.000.

Divo, Michael, to Procter & Gamble Company, The. Bleach compositions. 4,681,695, 7-21-87, Cl. 252-94.000.

Divoux, Michel: *See—*

Courjaret, Francois; Del Fabbro, Gilbert; Devic, Jean-Noel; Divoux, Michel; Forella, Guy; Hamant, Jean-Pierre; Tubiana, Dominique; and Pavie, Claude, 4,701,094, Cl. 414-330.000.

Diwan, Nazir. Ruler belt hanger. 4,654,976, 4-7-87, Cl. 33-485.000.

Dix, James S.: *See—*

Leland, John E.; Dix, James S.; and Shue, Robert S., 4,659,761, Cl. 524-262.000.

Leland, John E.; Dix, James S.; and Wright, Roy F., 4,680,326, Cl. 524-106.000.

Tieszen, Dale O.; and Dix, James S., 4,703,088, Cl. 525-189.000.

Dix, Johannes P.: *See—*

Colberg, Horst; Degen, Hans-Juergen; and Dix, Johannes P., 4,656,256, Cl. 534-605.000.

Dix, Joseph: *See—*

Pettinga, Robert; Dix, Joseph; McHugh, Thomas O.; Sibley, Lincoln L., Jr.; Ziemba, Richard T., and Forrester, Victor J., 4,700,608, Cl. 89-11.000.

Dixen, Carl C., to Danfoss A/S. Control device for at least one hydraulically operated load. 4,642,984, 2-17-87, Cl. 60-427.000.

Dixie Arc, Inc.: *See—*

Phillips, Donald L., 4,653,066, Cl. 373-94.000.

Dixie-Narco: *See—*

Oden, Kenneth W., 4,705,176, Cl. 211-59.200.

Dixie Yarns, Inc.: *See—*

Correll, James F., Jr., 4,688,734, Cl. 242-18.00R.

Dixit, Thuan P.: *See—*

Chum, Pak-Wing S.; Barger, Mark A.; Dixit, Thuan P.; and Schuetz, James E., 4,661,303, Cl. 264-171.000.

Dixon, Andrew J.: *See—*

Turner, David W.; Dixon, Andrew J.; Gehring, Karl A.; and Keenlyside, Michael, 4,713,833, Cl. 378-119.000.

Dixon, Angus B.; Prest, Alan; and Thorpe, Paul, to General Electric Company, p.l.c., The. Electric lamps having outer stem surface which minimizes internal reflections. 4,677,338, 6-30-87, Cl. 313-43.000.

Dixon, Angus B.; Prest, Alan; and Thorpe, Paul, to General Electric Company, p.l.c., The. Lamps and ribbon seals. 4,682,071, 7-21-87, Cl. 313-43.000.

Dixon Automatic Tool, Inc.: *See—*

Dixon, Paul A., 4,711,343, Cl. 198-465.200.

Dixon, Paul H., 4,703,843, Cl. 198-345.000.

Dixon, Charles E.; and Broughton, Christopher D., to Motorola, Inc. Gated demodulator for shaped BPSK signals. 4,704,582, 11-3-87, Cl. 329-50.000.

Dixon, Charles J. Passive vortex lift control. 4,705,240, 11-10-87, Cl. 244-199.000.

Dixon, Dale D.; Daughenbaugh, Randall J.; and Fowlkes, Robert L., to Air Products and Chemicals, Inc. Synthesis of heterocyclic amines via the reaction of dialkylene glycol and ammonia. 4,645,834, 2-24-87, Cl. 544-106.000.

Dixon, Dale D.; and Daughenbaugh, Randall J., to Air Products and Chemicals, Inc. Synthesis of morpholine. 4,647,663, 3-3-87, Cl. 544-106.000.

Dixon, Dale D.; and Burgoyne, William F., to Air Products and Chemicals, Inc. Tertiary butyl derivatives of toluenediamine and mixtures as antioxidant for organic materials. 4,693,837, 9-15-87, Cl. 252-50.000.

Dixon, Dale D.: *See—*

Burgoyne, William F., Jr.; and Dixon, Dale D., 4,711,737, Cl. 252-77.000.

Burgoyne, William F., Jr.; and Dixon, Dale D., 4,714,778, Cl. 564-305.000.

Pinschmidt, Robert K., Jr.; Dixon, Dale D.; Burgoyne, William F., Jr.; and Goldstein, Joel E., 4,663,410, Cl. 526-263.000.

Pinschmidt, Robert K., Jr.; Dixon, Dale D.; and Burgoyne, William F., Jr., 4,691,026, Cl. 548-531.000.

Dixon, Eleanor M.: *See—*

Elesie, Louis D.; Van Hart, Elizabeth R.; Norwood, James J.; Norwood, Pauline M.; Dixon, Joseph W.; and Dixon, Eleanor M., 4,666,161, Cl. 273-246.000.

Dixon, Frank J.: *See—*

Altman, Amnon; Theofilopoulos, Argyrios N.; Lerner, Richard A.; and Dixon, Frank J., 4,636,463, Cl. 435-7.000.

Dixon, Fred W. Poultry delunger apparatus. 4,677,709, 7-7-87, Cl. 17-11.000.

Dixon, Glen A.; McCloskey, Clark E.; Chambers, David L.; Hawk, Woodrow D.; and McCracken, Oliver W., to Otis Engineering Corporation. Well production controller system. 4,633,954, 1-6-87, Cl. 166-372.000.

Dixon, Glenn A., McCloskey, Clark E.; Chambers, David L.; Hawk, Woodrow D.; and McCracken, Oliver W., to Otis Engineering Corporation. Well production controller system. 4,685,522, 8-11-87, Cl. 166-372.000.

Dixon Industries Corporation: *See—*

Hanson, Michael W., 4,670,089, Cl. 156-629.000.

Lombardo, Frank; Jernigan, Edward L.; and Furze, Paul, 4,637,856, Cl. 156-637.000.

Marshall, Charles R., 4,660,996, Cl. 384-138.000.

Dixon International Limited: *See—*

Malcolm-Brown, Tessa, 4,636,538, Cl. 523-179.000.

Redfarn, Cyril A., 4,645,782, Cl. 523-179.000.

Tanner, Robert A., 4,715,268, Cl. 98-41.100.

Dixon, James R., Jr., to Mobil Oil Corporation. Method for determining fluid saturation in a porous media through the use of CT scanning. 4,649,483, 3-10-87, Cl. 364-422.000.

Dixon, James R., Jr.: *See—*

Sprunt, Eve S.; Humphreys, Neil V.; Muegge, Ernest L.; and Dixon, James R., Jr., 4,688,238, Cl. 378-4.000.

Dixon, Jerry D.; Farrell, Robert H.; Marazas, Gerald A.; McNeill, Andrew B., Jr.; and Merckel, Gerald U., to International Business Machines Corporation. Redundant page identification for a catalogued memory. 4,637,024, 1-13-87, Cl. 371-67.000.

Dixon, John: *See—*

Baxter, Andrew J. G.; Dixon, John; Gould, Kenneth J.; and Tinker, Alan C., 4,686,217, Cl. 514-210.000.

Dixon, John A. Vertical blinds chain. 4,696,336, 9-29-87, Cl. 160-178.00R.

Dixon, John R.: *See—*

Koehler, Heinrich P.; and Dixon, John R., 4,710,071, Cl. 408-133.000.

Dixon, John W.: *See—*

Youtt, Stanley A.; and Dixon, John W., 4,697,618, Cl. 137-587.000.

Dixon, Joseph M.: *See—*

Davis, Benjamin L.; Dixon, Joseph M.; and Page, Nicholas D., 4,714,629, Cl. 427-138.000.

Dixon, Joseph W.: *See—*

Elesie, Louis D.; Van Hart, Elizabeth R.; Norwood, James J.; Norwood, Pauline M.; Dixon, Joseph W.; and Dixon, Eleanor M., 4,666,161, Cl. 273-246.000.

Dixon, Michael S.: *See—*

Aitken, William A.; Sedivy, Anthony J.; and Dixon, Michael S., 4,658,690, Cl. 84-1.140.

Dixon, Paul A., to Dixon Automatic Tool, Inc. Power-and-free conveyor apparatus for handling pallet-supported workpieces. 4,711,343, 12-8-87, Cl. 198-465.200.

Dixon, Paul H., to Dixon Automatic Tool, Inc. Apparatus for handling pallet-supported workpieces. 4,703,843, 11-3-87, Cl. 198-345.000.

Dixon, Richard K. Method for building structures in water. 4,664,556, 5-12-87, Cl. 405-223.000.

Dixon, Robert C.: *See—*

Perry, Richard W.; Chang, John; and Dixon, Robert C., 4,675,149, Cl. 376-260.000.

Dixon, Robert L.: *See—*

Costello, Rocky C.; and Dixon, Robert L., 4,715,300, Cl. 110-346.000.

Dixon, Samuel, Jr.; AuCoin, Thomas R.; and Malik, Roger J., to United States of America, Army. Monolithic planar doped barrier limiter. 4,654,609, 3-31-87, Cl. 333-17.00L.

Dixon, Thomas J.; and Uchtman, Vernon A., to Procter & Gamble Company, The. Conditioning shampoo. 4,701,322, 10-20-87, Cl. 424-70.000.

Dixon, Walter O. Method and apparatus for operating and regenerating ion exchangers. 4,687,582, 8-18-87, Cl. 210-677.000.

Dixon, William E.: *See—*

Ponikwia, Edward F.; Dixon, William E.; and Stottmann, Richard L., 4,674,690, Cl. 241-37.500.

Dizio, Steven F.: *See—*

Newkirk, Marc S.; and Dizio, Steven F., 4,713,360, Cl. 501-87.000.

Djabbarah, Nizar F., to Cities Service Co. Sweep improvement in enhanced oil recovery. 4,703,797, 11-3-87, Cl. 166-252.000.

Djali, Reza. Visual aid for teaching trigonometric functions. 4,655,714, 4-7-87, Cl. 434-211.000.

Djali, Reza. Visual aid for teaching linear relationships. 4,676,754, 6-30-87, Cl. 434-215.000.

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Djerf, Villy E.: *See—*

Parkinson, William S.; and Djerf, Villy E., 4,692,372, Cl. 428-282.000.

Djobadze, Michael O.: *See—*

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Djordjevic, Ilija, to Stanadyne, Inc. Fuel injection pump with spill control mechanism. 4,644,924, 2-24-87, Cl. 123-506.000.

Djordjevic, Ilija, to Stanadyne, Inc. Hydraulic pump. 4,662,825, 5-5-87, Cl. 417-206.000.

Djordjevic, Ilija, to Stanadyne, Inc. Injection pump with radially mounted spill control valve. 4,667,641, 5-26-87, Cl. 123-502.000.

Djordjevic, Ilija, to Robert Bosch GmbH. RPM governor for fuel injection pumps. 4,685,433, 8-11-87, Cl. 123-373.000.

Djordjevic, Ilija; and Ganser, Marco, to Stanadyne, Inc. Modular accumulator injector. 4,709,679, 12-1-87, Cl. 123-447.000.

Djudjev, Slavtcho G.: *See—*

Todorov, Dimiter T.; Djudjev, Slavtcho G.; and Yarumov, Kiril D., 4,672,854, Cl. 73-861.330.

Djupsjobacka, Anders G.: *See—*

Thylen, Lars H.; and Djupsjobacka, Anders G., 4,658,224, Cl. 332-7.510.

Djuric, Stevan W.; Chinn, Leland J.; and Rorig, Kurt J., to G. D. Searle & Co. 5-fluoro-3-oxa-prostacyclin compounds. 4,687,864, 8-18-87, Cl. 549-414.000.

Dlabac, Antonin: *See*—
  Protiva, Miroslav; Jilek, Jiri; Cervena, Irena; Dlabac, Antonin; Valchar, Martin; and Pomykacek, Josef, 4,678,788, Cl. 514-254.000.

Dlott, Ann Marie; Dlott, Stephen P.; and Saigal, Anil. Transformable lunch-box robot. 4,666,042, 5-19-87, Cl. 206-542.000.

Dlott, Stephen P.: *See*—
  Dlott, Ann Marie; Dlott, Stephen P.; and Saigal, Anil, 4,666,042, Cl. 206-542.000.

Dlubak, Frank C., to Dlubak, Frank C. Laminated article and process for making same. 4,642,255, 2-10-87, Cl. 428-38.000.

Dlugokecki, Andrew N.; and Middlekauff, Carle A., to Parker Hannifin Corporation. Internal gear device with improved rotary valve. 4,699,577, 10-13-87, Cl. 418-61.00B.

Dlugos, Daniel F., to Pitney Bowes Inc. System for printing encrypted messages with bar-code representation. 4,660,221, 4-21-87, Cl. 380-23.000.

Dlugos, Daniel F.: *See*—
  Clark, John I.; and Dlugos, Daniel F., 4,641,347, Cl. 380-3.000.

DM Rim Nylon Vof: *See*—
  Gabbert, James D.; Garner, Albert Y.; and Hedrick, Ross M., 4,649,177, Cl. 525-408.000.

DMA Systems Corporation: *See*—
  McNeil, Michael, 4,663,682, Cl. 360-105.000.

DMI Fabrications Limited: *See*—
  Sills, James R., 4,693,442, Cl. 248-406.200.

D'Muhala, Thomas F. Barium sulfate removal and anti-deposition compositions and process of use therefor. 4,708,805, 11-24-87, Cl. 210-698.000.

DNA Plant Technology Corporation: *See*—
  Orr, Avigdor; Spingler, John O.; and Gilbert, Seymour G., 4,670,275, Cl. 426-270.000.
  Orr, Avigdor; and Spingler, John O., 4,711,789, Cl. 426-326.000.
  Sondahl, Maro R.; and Evans, David A., 4,659,668, Cl. 435-240.000.

DNAX Research Institute of Molecular and Cellular Biology, Inc.: *See*—
  Moore, Kevin W.; and Zaffaroni, Alejandro, 4,642,334, Cl. 530-388.000.
  Mosmann, Tim R., 4,690,893, Cl. 435-240.270.
  Yokota, Takashi; Lee, Frank; Rennick, Donna; and Arai, Ken-ichi, 4,695,542, Cl. 435-68.000.

Do-All Jewelry Mfg. Co., Inc.: *See*—
  Geldwerth, Simon, 4,697,315, Cl. 24-616.000.
  Geldwerth, Simon, 4,713,865, Cl. 24-616.000.

Do, Phuc K.; Goodwin, Joel G.; and Krull, Nicholas J., to International Business Machines Corporation. Mechanism for positioning an output member. 4,680,524, 7-14-87, Cl. 318-696.000.

Doak, Kenneth W. Polyblends of a copolymer of a vinyl aromatic monomer and an unsaturated dicarboxylic acid anhydride with a methyl methacrylate homopolymer or copolymer. 4,647,620, 3-3-87, Cl. 525-71.000.

Doan, Phong: *See*—
  Berg, Harvey F.; Peterson, Lyle; Leslie, James E.; and Doan, Phong, 4,650,469, Cl. 604-131.000.

Doane, J. William: *See*—
  Wu, Bao-Gang; and Doane, J. William, 4,671,618, Cl. 350-347.00V.

Doane, John C.: *See*—
  Jacoby, Herbert; Doane, John C.; and Koe, Joe K., 4,647,921, Cl. 340-716.000.

Doane, Joseph W.; Chidichimo, Giuseppe; and Vaz, Nuno A. P., to Kent State University. Light modulating material comprising a liquid crystal dispersion in a plastic matrix. 4,688,900, 8-25-87, Cl. 350-347.00V.

Doane, Joseph W.: *See*—
  West, John; Golemme, Attilio; and Doane, Joseph W., 4,673,255, Cl. 350-347.00V.
  West, John L.; Doane, Joseph W.; and Zumer, Slobodan, 4,685,771, Cl. 350-347.00V.

Dobashi, Akihiko: *See*—
  Ohta, Tomohisa; Dobashi, Akihiko; Kanbara, Hisashige; and Seki, Yasuyuki, 4,659,788, Cl. 525-518.000.
  Ohta, Tomohisa; Dobashi, Akihiko; Kanbara, Hisashige; and Seki, Yasuyuki, 4,665,106, Cl. 522-49.000.

Dobashi, Tomoyuki: *See*—
  Fujii, Mituru; Dobashi, Tomoyuki; Sasaki, Hisashi; Imanishi, Masamichi; and Ueda, Toshihiro, 4,674,654, Cl. 222-39.000.
  Tanaka, Hideo; Ohhashi, Kuniyoshi; Gomi, Tatsuya; and Dobashi, Tomoyuki, 4,649,054, Cl. 426-397.000.

Dobashi, Toshihiro: *See*—
  Konno, Masanori; Imai, Kiyoshi; and Dobashi, Toshihiro, 4,673,791, Cl. 219-69.00M.
  Konno, Masanori; Imai, Kiyoshi; and Dobashi, Toshihiro, 4,700,039, Cl. 219-69.00G.

Dobashi, Toshio; Hara, Masaharu; and Fukutani, Kazunobu, to Nippon Kogaku K. K. Camera with focal plane shutter. 4,688,916, 8-25-87, Cl. 354-288.000.

Dobat, Daniel F.: *See*—
  Smith, Michael D.; and Dobat, Daniel F., 4,692,074, Cl. 409-233.000.

Dobbelstein, Arnold: *See*—
  Batzill, Wolfgang; Dobbelstein, Arnold; Geist, Michael; Schon, Georg; and Ott, Gunther, 4,661,541, Cl. 523-414.000.
  Batzill, Wolfgang; Dobbelstein, Arnold; Geist, Michael; Schon, Georg; and Ott, Gunther, 4,707,232, Cl. 204-181.700.
  Diefenbach, Horst; Dobbelstein, Arnold; and Hille, Hans-Dieter, 4,684,676, Cl. 523-411.000.

Dobberpuhl, Dale R.; and Stricker, David K., to Deere & Company. Power take-off system and isolation mounting therefor. 4,640,37 2-3-87, Cl. 180-53.100.

Dobberpuhl, Dale R.; and Behrens, Robert N., to Deere & Company. Power take-off brake and clutch actuation assembly. 4,671,395 6-9-87, Cl. 192-17.00C.

Dobberpuhl, Daniel W.: *See*—
  Beck, John C.; and Dobberpuhl, Daniel W., 4,642,492, C 307-578.000.

Dobbertin, Dennis. Tool for seating flooring panels. 4,683,631, 8-4-8 Cl. 29-278.000.

Dobbie, Clelland R. M., to Air Traction Industries Limited. Aircra ground-handling vehicle. 4,658,924, 4-21-87, Cl. 180-14.100.

Dobbs, Daniel R., to Sundstrand Corporation. Propulsion system for torpedo with thrust compensation. 4,690,085, 9-1-87, Cl. 114-20.20

Dobbs, Daniel R.: *See*—
  Heitz, Steven A.; and Dobbs, Daniel R., 4,648,322, Cl. 102-411.00

Dobbs, Douglas B., to Calmar, Inc. Multi-purpose nozzle assembl 4,706,888, 11-17-87, Cl. 239-478.000.

Dobbs, Herbert H. Sealing assembly. 4,649,799, 3-17-87, Cl. 89-26.00

Dobbs, John M.; and Gordon, Bernard M., to Analogic Corporatio Tomography data acquisition system with variable sampling ra and/or conversion resolution of detector output signals. 4,677,55 6-30-87, Cl. 364-414.000.

Dobbs, John M.: *See*—
  Kellogg, Edwin M.; Dobbs, John M.; Dunn, Gregory J.; Kau mann, Henry C.; and Thompson, William, 4,698,236, C 427-43.100.

Dobbs, Nathan F. Container for capturing insects. 4,696,127, 9-29-8 Cl. 43-121.000.

Dobbs, Paul T. Map display. 4,715,642, 12-29-87, Cl. 296-1.00R.

Dobbs, Robert J.; Thomas, David E.; and Wittmer, Dale E., to GTE Products Corporation. Self lubricating silicon nitride artic 4,650,592, 3-17-87, Cl. 252-12.200.

Dobbs, Robert J.; and Tarry, Christopher A., to GTE Products Corporation. Wire bonding tool. 4,667,867, 5-26-87, Cl. 228-44.700.

Dobbs, Robert J.; and Alexander, Shuford M., Jr., to GTE Produc Corporation. High purity silicon nitride polishing compoun 4,690,693, 9-1-87, Cl. 51-307.000.

Dobbs, Robert J.: *See*—
  Ludwig, David C.; and Dobbs, Robert J., 4,659,341, Cl. 51-293.00

Dobbs, Teena L.: *See*—
  Moss, Gaylord E.; Chern, Mao-Jin; and Dobbs, Teena L 4,637,678, Cl. 350-3.700.

Dobell S.a.s. di Domenico Belmondo & C.: *See*—
  Belmondo, Domenico, 4,648,505, Cl. 206-214.000.

Dobesh, Donald J., Sr.: *See*—
  Rush, James H.; and Dobesh, Donald J., Sr., 4,699,323, C 239-585.000.

Dobhan, Herbert: *See*—
  Brandenstein, Manfred; Bonengel, Roland; and Dobhan, Herbe 4,654,181, Cl. 264-328.120.

Dobias, Bohuslav: *See*—
  von Rybinski, Wolfgang; Tesmann, Holger; and Dobias, Bohusla 4,714,544, Cl. 209-167.000.

Dobkin, Milton B., to Miles Laboratories, Inc. High titer anti-respi tory syncytial virus intravenous immune globulin. 4,659,563, 4-21-8 Cl. 424-86.000.

Dobkin, Milton B., to Miles Laboratories, Inc. High titer varicell zoster immune globulin for intravenous administration. 4,665,15 5-12-87, Cl. 530-387.000.

Dobler, Karl-Otto: *See*—
  Bodensieck, Hans-Rudolf; Dobler, Karl-Otto; Hanel, Horst; Ko ler, Kurt; Liedtke, Frieder; and Seliger, Siegfried, 4,658,340, C 362-267.000.

Dobler, Thomas, to BBC Brown, Boveri & Company, Limited. Co pling for a light-conducting fiber. 4,639,077, 1-27-87, Cl. 350-96.2

Dobner, Gerd-Erich, to Didier-Werke Ag. Gas rinsing stopper preve ing mixing of air with rinsing gas. 4,691,901, 9-8-87, Cl. 266-236.00

Dobner, Michael H.; and Edwards, Evan A., to Bausch & Lomb Inco porated. Counterbalancing apparatus for use in an optical instrume 4,685,648, 8-11-87, Cl. 248-572.000.

Dobner, Michael H., to Bausch & Lomb Incorporated. Apparatus fo adjusting play in a precision optical instrument. 4,712,890, 12-15-8 Cl. 350-530.000.

Dobner, Michael H.: *See*—
  Clark, James A.; and Dobner, Michael H., 4,684,225, C 350-518.000.

Doboy Packaging Machinery, Inc.: *See*—
  Eaves, Fred W., 4,640,408, Cl. 198-460.000.
  Sampson, Mark E.; and Rosen, Marvin E., 4,696,244, C 112-262.100.

Dobran, Flavio. Lithium-sulfur hexafluoride magnetohydrodynam power system. 4,645,959, 2-24-87, Cl. 310-11.000.

Dobreski, David V.: *See*—
  Canterino, Peter J.; Dobreski, David V.; and Shaw, Richard C 4,716,201, Cl. 525-240.000.

Dobring, Wilfried; Rubey, Wolfgang; and Malke, Wolfgang, to Nixdo Computer AG. Device for selectively notching or severing a pa strip. 4,651,609, 3-24-87, Cl. 83-620.000.

Dobring, Wilfried: *See*—
  Baitz, Guenter; and Dobring, Wilfried, 4,637,326, Cl. 109-49.00

  - Baitz, Guenter; and Dobring, Wilfried, 4,638,908, Cl. 206-0.800.
  - Baitz, Guenter; and Dobring, Wilfried, 4,642,449, Cl. 235-22.000.
- Dobrotwir, Nicholas G. Process for selectively separating petroleum fractions. 4,645,522, 2-24-87, Cl. 62-18.000.
- Dobrovolny, Mark S.; Corr, James J.; and Narath, William R., to Lever Brothers Company. Process for preparing soap-acyl isethionate toilet bars. 4,663,070, 5-5-87, Cl. 252-121.000.
- Dobrovolny, Mark S.: *See—*
  - Caswell, Michael L.; Corr, James J.; Dobrovolny, Mark S.; Lander, Lynn H.; Narath, William R.; and Theiler, Richard F., 4,695,395, Cl. 252-121.000.
- Dobrowolski, Jerzy A.; and Whitehead, Lorne A., to Canadian Patents and Development Limited. Viewing angle color sensitive lighting accessory. 4,649,462, 3-10-87, Cl. 362-2.000.
- Dobrowolski, Jerzy A.; and Hara, Elmer H., to Canadian Patents and Development Limited. Optical mixing/demixing device. 4,707,064, 11-17-87, Cl. 350-96.190.
- Dobruskin, Moisey: *See—*
  - Chak, Maryan; and Dobruskin, Moisey, 4,710,282, Cl. 204-228.000.
- Dobrusskin, Alexander; Lewandowski, Bernd; and Kiele, Walter, to Patent-Treuhand Gesellschaft fur elektrische Gluhlampen mbH. High-power, high-pressure metal halide discharge lamp with improved spectral light distribution. 4,647,814, 3-3-87, Cl. 313-641.000.
- Dobrzanski, John J., to General Signal Corporation. Photoelectric smoke detector circuitry. 4,654,644, 3-31-87, Cl. 340-630.000.
- Dobrzanski, John J., to General Signal Corporation. Easily cleaned photoelectric smoke detector. 4,672,217, 6-9-87, Cl. 250-574.000.
- Dobschal, Hans-Jurgen: *See—*
  - Florek, Stefan; Becker-Ross, Helmut; Dobschal, Hans-Jurgen; and Mohr, Joachim, 4,690,559, Cl. 356-328.000.
- Dobson, Donald J., to American Fence Corporation. Barrier. 4,666,129, 5-19-87, Cl. 256-2.000.
- Dobson, John V., to British Gas Corporation. Gas sensor and method. 4,666,565, 5-19-87, Cl. 204-1.00T.
- Dobson, Johnnie M. D. Clip-on cuffs for eyeglass temples. 4,662,729, 5-5-87, Cl. 351-123.000.
- Dobson Park Industries plc: *See—*
  - Greaves, Peter, 4,712,934, Cl. 400-332.500.
  - Mann, Derek, 4,637,816, Cl. 604-62.000.
  - Ward, Richard, 4,643,392, Cl. 251-89.000.
  - Ward, Richard; and Allen, Archelaius D., 4,692,067, Cl. 405-302.000.
- Dobson, William: *See—*
  - Green, C. Brad; Dobson, William; and Abel, Stephen G., 4,641,405, Cl. 29-157.10R.
- Dobson, William C.; and Spoeth, Carl R., to Dart Industries Inc. Cordless iron. 4,650,268, 3-17-87, Cl. 339-43.000.
- Dobutsu, Masakatsu: *See—*
  - Yoshida, Mitsuo; Mizuno, Yoshikuni; Shimizu, Natsue; Otsuka, Mieko; Dobutsu, Masakatsu; Furukawa, Yuusuke; and Joshita, Yutaka, 4,690,949, Cl. 514-561.000.
- Dobyns, David W.: *See—*
  - Callahan, David T.; and Dobyns, David W., 4,693,026, Cl. 40-576.000.
- Dobyns, Kenneth P.: *See—*
  - Bingold, Steven R.; Kleck, Jeffrey A.; and Dobyns, Kenneth P., 4,647,897, Cl. 338-172.000.
- Docherty, Brian; and Lambley, Stephen, to British Telecommunications plc. Alphabetic display. 4,672,759, 6-16-87, Cl. 40-450.000.
- Docherty, Edward F.: *See—*
  - Heyne, Carl J.; Hackworth, Donald T.; Docherty, Edward F.; and Shestak, Edward J., 4,672,248, Cl. 310-68.00D.
- Docherty, James P.: *See—*
  - Solano, William E.; Docherty, James P.; and Stubenbort, Joseph W., 4,637,795, Cl. 432-138.000.
- Dochterman, Jack L.: *See—*
  - Camacho, Salvador L.; Dochterman, Jack L.; and Lindsay, Richard D., 4,654,076, Cl. 75-10.190.
- Dockery, Allison A.: *See—*
  - Wolfe, Homer O., Jr.; and Dockery, Allison A., 4,667,823, Cl. 206-392.000.
- Dockins, Ray R., Jr.: *See—*
  - Lindsey, Hiram E., Jr., and Dockins, Ray R., Jr., 4,671,358, Cl. 166-291.000.
- Dockins, Roy R., Jr.; and Lindsey, Hiram E., Jr., to Lindsey Completion Systems. Liner hanger assembly with setting tool. 4,712,615, 12-15-87, Cl. 166-208.000.
- Dockner, Toni: *See—*
  - Kempe, Uwe; and Dockner, Toni, 4,658,035, Cl. 548-342.000.
  - Kempe, Uwe; Dockner, Toni; and Schlick, Rolf, 4,672,128, Cl. 548-343.000.
  - Sauerwald, Manfred; Dockner, Toni; Rohr, Wolfgang; and Reissenweber, Gernot, 4,670,567, Cl. 549-13.000.
- Dockrey, Jasper W.: *See—*
  - Thomas, Patrick K.; Hartman, Dennis C.; and Dockrey, Jasper W., 4,680,086, Cl. 156-643.000.
- Docktor, Kenneth E.; and Pulido, Robert J., to Criton Technologies. Anodizing clip. 4,664,771, 5-12-87, Cl. 204-297.00W.
- Dockus, Kostas F.; and Zambrow, John L., to Borg-Warner Corporation. Controlled atmosphere capsule for fluxless brazing. 4,701,127, 10-20-87, Cl. 432-242.000.
- Dockx, John P.: *See—*
  - Hopkins, Allen B.; and Dockx, John P., 4,645,401, Cl. 414-222.000.
- Dr. Alois Stankiewicz GmbH: *See—*
  - Blumel, Ehrenfried; Gahlau, Heinemann; Hoffmann, Manfred; Wittenmayer, Klaus; Stankiewicz, Thomas; and Kittel, Christoph, 4,663,381, Cl. 524-426.000.
  - Gahlau, Heinemann; Wittenmayer, Klaus; Laubner, Manfred; and Baumeister, Herbert, 4,655,496, Cl. 296-39.00A.
  - Gahlau, Heinemann; Hoffmann, Manfred; and Seemann, Norbert, 4,705,139, Cl. 181-290.000.
- Dr. C. Otto & Comp. GmbH: *See—*
  - Friedrichs, Manfred; and Bohm, Michael, 4,655,488, Cl. 292-66.000.
  - Halbherr, Gerd, 4,664,140, Cl. 137-246.110.
  - Spindeler, Heinz, 4,666,559, Cl. 202-254.000.
- Dr. Hans Heubach GmbH & Co. KG: *See—*
  - Gawol, Manfred; and Adrian, Gerhard, 4,702,116, Cl. 73-865.600.
- Dr. Ing. Ernst Haeussler: *See—*
  - Zipf, Eckart; Arteon, Marcel; and Verde, Patric, 4,703,595, Cl. 52-125.400.
- Dr. Ing. h.c.F. Porsche Aktiengesellschaft: *See—*
  - Ampferer, Herbert; and Binder, Robert, 4,657,043, Cl. 137-543.190.
  - Ampferer, Herbert; and Groger, Klaus, 4,693,216, Cl. 123-195.00R.
  - Ampferer, Herbert, 4,709,670, Cl. 123-195.00C.
  - Bantle, Manfred; and Lechner, Reinhard, 4,690,462, Cl. 301-9.0CN.
  - Beeck, Peter op de; Wuest, Rainer; and Stelter, Norbert, 4,679,145, Cl. 364-424.100.
  - Binder, Robert; and Beer, Michael, 4,660,512, Cl. 123-41.600.
  - Dorr, Konrad, 4,638,155, Cl. 250-231.0SE.
  - Eger, Georg, 4,657,301, Cl. 296-188.000.
  - Eger, Georg; and Srock, Rainer, 4,689,849, Cl. 16-82.000.
  - Eyh, Wolfgang, 4,664,436, Cl. 296-121.000.
  - Gaigl, Dietmar; and Amann, Klaus, 4,709,134, Cl. 219-201.000.
  - Goerich, Hans-Jurgen, 4,681,342, Cl. 280-690.000.
  - Gosse, August-Wilhelm; and Winhart, Nikolaus, 4,659,138, Cl. 296-201.000.
  - Hawener, Juergen; and Hain, Klaus, 4,693,670, Cl. 416-25.000.
  - Heiler, Roland, 4,644,448, Cl. 362-66.000.
  - Hickmann, Udo; and Ruehle, Guenter, 4,700,820, Cl. 192-48.500.
  - Kolb, Eugen, 4,671,559, Cl. 296-107.000.
  - Korkemeier, Hans, 4,648,243, Cl. 60-272.000.
  - Kretschmer, Helmut; and Hochkoenig, Manfred, 4,673,206, Cl. 296-1.00S.
  - Kretschmer, Helmut, 4,688,840, Cl. 296-1.00S.
  - Kurz, Erich, 4,677,941, Cl. 123-41.120.
  - Linz, Herbert; and Lehmann, Klaus-Peter, 4,671,555, Cl. 296-1.00S.
  - Moebius, Wolfgang, 4,670,818, Cl. 362-61.000.
  - Morlok, Albrecht; and Weigele, Hans, 4,700,796, Cl. 180-88.000.
  - Mueller, Robert, 4,644,823, Cl. 74-710.500.
  - Mueller, Robert, 4,656,889, Cl. 74-718.000.
  - Mueller, Robert, 4,691,593, Cl. 74-714.000.
  - Mueller, Robert, 4,714,129, Cl. 180-248.000.
  - Reichel, Anton; Lohmann, Bernard; Kolb, Eugen; Hochkonig, Manfred; Burst, Hermann; and Kretschmer, Helmut, 4,690,204, Cl. 165-44.000.
  - Ruehr, Volker, 4,701,742, Cl. 340-58.000.
  - Rutschmann, Erwin, 4,641,610, Cl. 123-52.0MV.
  - Schreiber, Reinhold; Ostle, Arnold-William; Maier, Walter; and Loebert, Heinz, 4,663,210, Cl. 428-160.000.
  - Soderberg, Richard, 4,653,795, Cl. 296-1.00S.
  - Srock, Rainer; Herrmann, Ursula; and v. Rotberg, Bernhard, 4,679,820, Cl. 280-781.000.
  - Srock, Rainer, 4,685,722, Cl. 296-188.000.
  - Srock, Rainer; and Eger, Georg, 4,704,822, Cl. 49-502.000.
  - Szabo, Zsolt, 4,675,638, Cl. 336-83.000.
  - Szodfridt, Imre; and Knoblauch, Richard, 4,714,147, Cl. 192-87.150.
  - von Broock, Ulrich, 4,705,410, Cl. 384-99.000.
  - von Broock, Ulrich; and Hawener, Jurgen, 4,706,901, Cl. 244-54.000.
  - von Sivers, Rolf; Havemann, Kim; and Ilsemann, Bernhard, 4,690,238, Cl. 180-248.000.
  - von Sivers, Rolf, 4,709,778, Cl. 180-292.000.
  - Weiner, Hans, 4,710,720, Cl. 324-550.000.
  - Wichart, Klaus, 4,714,057, Cl. 123-90.150.
  - Ziegler, Gerhard; Gregotsch, Karl; and von Sivers, Rolf, 4,640,240, Cl. 123-193.00C.
  - Ziegler, Gerhard; Gregotsch, Karl; and Herrmann, Rudolf, 4,680,493, Cl. 310-62.000.
  - Ziegler, Hermann, 4,683,694, Cl. 52-208.000.
- Dr.-Ing. Manfrid Dreher GmbH & Co. KG: *See—*
  - Schmidt, Paul, 4,650,341, Cl. 366-291.000.
- Dr.-Ing. Max Schlotter GmbH & Co. KG: *See—*
  - Roubal, Jiri, 4,666,739, Cl. 427-97.000.
  - Strube, Gernot; and Jordan, Manfred, 4,650,548, Cl. 204-15.000.
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  - Osypka, Peter; and Gerstmann, Hans, 4,693,258, Cl. 128-783.000.
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  - Angelbeck, Rolf; Gesell, Reinhard; Greve, Helmut; and Henke, Ulrich, 4,667,948, Cl. 271-98.000.
  - Colditz, Armin; and Klopsch, Siegfried, 4,691,229, Cl. 358-76.000.
  - Dinse, Wolfgang, 4,657,381, Cl. 355-76.000.
  - Doelves, Juergen; and Schroedter, Wolfgang, 4,688,101, Cl. 358-299.000.
  - Fischer, Gerhard; and Scheuter, Karl R., 4,709,395, Cl. 382-54.000.
  - Gall, Winrich, 4,700,235, Cl. 358-283.000.
  - Hoffrichter, Ingo; Jung, Eggert; and Keller, Hans, 4,649,423, Cl. 358-80.000.
  - Jung, Eggert; and Klopsch, Siegfried, 4,639,770, Cl. 358-76.000

Jung, Eggert, 4,668,979, Cl. 358-75.000.

Karov, Peter, 4,667,247, Cl. 358-280.000.

Muehlenbruch, Dieter, 4,645,336, Cl. 355-61.000.

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Schulz-Hennig, Joerg; and Sievers, Horst, 4,707,597, Cl. 250-209.000.

Dr.-Ing.Wolfgang Schulz Messtechnik: *See—*

Schulz, Wolfgang; Himmler, Gunther; Knoll, Gunter; and Wenz, Friedrich, 4,676,648, Cl. 356-385.000.

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Andernach, Dieterich; and Wurm, Manfred, 4,714,920, Cl. 340-747.000.

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Feichtinger, Kurt, 4,663,851, Cl. 33-1.0PT.

Huber, Erich, 4,714,349, Cl. 356-374.000.

Kranitzky, Walter, 4,653,108, Cl. 382-25.000.

Kraus, Heinz, 4,700,482, Cl. 33-1.0PT.

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Michel, Dieter, 4,677,293, Cl. 250-237.00G.

Pettigrew, Robert M., 4,636,076, Cl. 356-356.000.

Pettigrew, Robert M.; and Longman, Robert J., 4,657,780, Cl. 427-54.100.

Schmitt, Walter, 4,645,925, Cl. 250-237.00G.

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Heider, Joachim; Hauel, Norbert; Austel, Volkhard; Noll, Klaus; Bomhard, Andreas; van Meel, Jacques; and Diederen, Willi, 4,716,169, Cl. 514-299.000.

Nickl, Josef; Muller, Erich; Narr, Benthold; Ballhause, Helmut; and Haarmann, Walter, 4,678,792, Cl. 514-307.000

Roch, Josef; Heckel, Armin; Nickl, Josef; Muller, Erich; Narr, Berthold; Zimmermann, Rainer; and Weisenberger, Johannes, 4,714,698, Cl. 514-212.000.

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Schilk, Leonhard, 4,659,584, Cl. 427-2.000.

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Voss, Gunther M.; Glasel, Volker I.; Gruber, Peter; and Bubeck, Walter, 4,707,309, Cl. 264-12.000.

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Rungger, Helmut; and Linsinger, Ernst, deceased, 4,655,109, Cl. 82-47.000.

Doctor, Titu R. Air and water conditioner for indoor swimming pool. 4,667,479, 5-26-87, Cl. 62-93.000.

Dr. von Ballmoos AG: *See—*

von Ballmoos, Fritz, 4,703,164, Cl. 235-384.000.

Dr. Welp Entwicklungs-KG: *See—*

Welp, Ullrich; Kramer, Willi; Girke, Michael; and Lack, Bernd, 4,634,269, Cl. 355-100.000.

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Dodd, Francis J., to Nuclear Energy Systems, Inc. Weld scanner guide and magnetically susceptible track. 4,677,916, 7-7-87, Cl. 104-118.000.

Dodd, Jack G., Jr.; and Dodd, Jeffrey J., to Walter C. McCrone Associates, Inc. Method and apparatus for analyzing the nature of a sample. 4,678,913, 7-7-87, Cl. 250-341.000.

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Dodd, John H.: *See—*

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Dodd, Stephen C., to Davey Company, The. Non-invasive, in-lin consistency measurement of a non-newtonian fluid. 4,680,95 7-21-87, Cl. 73-55.000.

Doddapaneni, Narayan, to Honeywell Inc. Electrochemical cell having improved active life. 4,698,283, 10-6-87, Cl. 429-101.000.

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Doddington, George R.; and Secrest, Bruce G., to Texas Instrumen Incorporated. Voice messaging system with unified pitch and voic tracking. 4,696,038, 9-22-87, Cl. 381-38.000.

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Dodds, David E.; and Bertsch, Ludo, to Develcon Electronics Lt Dataset powered by control and data signals from data termin 4,677,646, 6-30-87, Cl. 375-36.000.

Dodds, Dennis L.; and Werst, Joseph L., to RCA Corporation. Blu bow correction for CRT raster. 4,654,616, 3-31-87, Cl. 335-212.00

Dodds, Dick R.: *See—*

Scobie, William B.; and Dodds, Dick R., 4,659,064, Cl. 251-214.00

Dodds, Diego E. F., to Obeler, Leonard. Heat exchanging apparatu for cooling and condensing by evaporation. 4,693,302, 9-15-87, C 165-46.000.

Dodds, John J., to Boeing Company, The. Silicone rubber vacuum ba tool and method of fabricating same. 4,698,115, 10-6-87, C 156-382.000.

Dodds, Kathleen M.; and Bishop, John H. Soft-wall hanger. 4,664,35 5-12-87, Cl. 248-303.000.

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Dodds, Robert E.; Goodwin, David S.; and Patel, Himanshu M., t Sony Corporation. Radiation exposure method of manufacturing color cathode ray tube having light absorptive areas. 4,707,42 11-17-87, Cl. 430-25.000.

Doderer, Gerhard; Kiefer, Heinz; and Krieger, Willi, to Robert Bos GmbH. Apparatus for shaping wrappers for packages. 4,708,7 11-24-87, Cl. 493-295.000.

Dodey, Pierre: *See—*

Majoie, Bernard; Bellamy, Francois; Dodey, Pierre; and Rob Jacques, 4,680,402, Cl. 546-235.000.

Dodge Chemical Company, The: *See—*

Fredrick, Jerome F., 4,675,327, Cl. 514-383.000.

Dodge, John L.; Bush, Duane B.; Pechuzal, Georges A.; and Rav dranath, Ambrish, to Garrett Corporation, The. High efficien transonic mixed-flow compressor method and apparatus. 4,678,39 7-7-87, Cl. 415-181.000.

Dodge, Larry H.; and Stone, Glen, to Sherwood Medical Compan Fluid collection device with phase partitioning means. 4,707,27 11-17-87, Cl. 210-789.000.

Dodge, Robert H.; and Avers, Randall J., to Abbott Laborato Monoclonal antibody stabilization. 4,650,772, 3-17-87, C 436-548.000.

Dodge, Warren; and Wirfs-Brock, Rebecca, to Tektronix, Inc. Appara tus for presenting image information for display graphicall 4,635,049, 1-6-87, Cl. 340-721.000.

Dodge, Warren L., to Tektronix, Inc. Variable size and position dialo area display system. 4,660,154, 4-21-87, Cl. 364-518.000.

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Hansen, Elmer K., 4,653,634, Cl. 198-813.000.

Dodgen, Stephen L.: *See—*

Bills, Daniel G.; Arnold, Paul C.; Dodgen, Stephen L.; and Va Cleve, Craig B., 4,636,680, Cl. 313-7.000.

Dodin, Andre ; Avrameas, Eustrate; Goud, Bruno; Guillou, Michel; an Nicolas, Renee , to Institut Pasteur. Immunological detection bacterial pathogens with antibody-containing magnetic g 4,677,055, 6-30-87, Cl. 435-7.000.

Dodin, Andre; Siffert, Odile; Le Thuillier, Georgette; and Allar Patrice, to Institut Pasteur. Novel synthetic peptide, process for preparation and medicaments containing it. 4,686,281, 8-11-87, C 530-327.000.

Dodman, Nicholas H.; and Shuster, Louis, to Tufts College, Truste of. Method for preventing stereotypic behavior in animals. 4,692,45 9-8-87, Cl. 514-282.000.

Dodo, Kazuo: *See—*

Shibata, Kizo; and Dodo, Kazuo, 4,649,009, Cl. 264-235.800

Dodrill, Bradley C.: *See—*

Krause, John K.; and Dodrill, Bradley C., 4,643,589, C 374-178.000.

Dodrill, Gregg W. Speaker and baffle system for a vehicle storage w and method of installing same. 4,696,369, 9-29-87, Cl. 181-141.000

- Dodson, Christopher J.: *See—*
    - Powers, Maston L.; Dodson, Christopher J.; Moore, John S.; and Ghassemi, Farhad, 4,641,709, Cl. 166-252.000.
- Dodson, David M., to Robertshaw Controls Company. Electronic water heater thermostat system. 4,641,778, 2-10-87, Cl. 236-20.00R.
- Dodson, Douglas A. Cooling system for personal computer. 4,702,154, 10-27-87, Cl. 98-1.000.
- Dodson, Stuart A.: *See—*
    - Kuhla, Donald E.; Campbell, Henry F.; Studt, William L.; and Dodson, Stuart A., 4,704,388, Cl. 514-222.000.
    - Studt, William L.; Zimmerman, Harry K.; and Dodson, Stuart A., 4,707,478, Cl. 514-580.000.
- Dodt, Hans-Walter, to Carl Schenck AG. Test stand for power plants and method. 4,680,975, 7-21-87, Cl. 73-862.090.
- Dodt, Hans-Walter, to Carl Schenck AG. Eddy current brake cooling. 4,689,513, 8-25-87, Cl. 310-93.000.
- Dodt, Johannes: *See—*
    - Fritz, Hans; Dodt, Johannes; Seemuller, Ursula; and Fink, Ernst 4,654,302, Cl. 435-70.000.
    - Seemuller, Ursula; Dodt, Johannes; and Fritz, Hans, 4,636,489, Cl. 514-12.000.
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    - Gengenbach, Bruno; Michal, Roland; and Radbruch, Jens, 4,644,118, Cl. 200-144.00R.
    - Normann, Norbert, 4,635,227, Cl. 365-133.000.
    - Normann, Norbert, 4,639,670, Cl. 324-260.000.
- Doe, Lester A., Jr., to R. T. Vanderbilt Company, Inc. Norbornene derivatives of phenols. 4,677,149, 6-30-87, Cl. 524-324.000.
- Doe, Lester A., Jr., to R. T. Vanderbilt Company, Inc. Rubber compositions containing amine derivatives of 1,3,4-thiadiazole. 4,704,426, 11-3-87, Cl. 524-83.000.
- Doe, Lester A., Jr., to R. T. Vanderbilt Company, Inc. Surface coating compositions containing substituted 1,3,4-thiadiazoles. 4,711,915, 12-8-87, Cl. 523-122.000.
- Doege, Joachim; Paschke, Hanns-Dieter; and Tran, Ke D., to Stahl Aufzuge GmbH & Co. KG. Manipulator based on the pantograph principle. 4,659,278, 4-21-87, Cl. 414-680.000.
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- Doehler, Joachim, to Energy Conversion Devices, Inc. Method provided for corrective lateral displacement of a longitudinally moving web held in a planar configuration. 4,664,951, 5-12-87, Cl. 427-248.100.
- Doehner, Robert F., Jr., to American Cyanamid Company. Alkyl esters of substituted 2-methyl-3-quinolinecarboxylic acid and quinoline-2,3-dicarboxylic acid. 4,656,283, 4-7-87, Cl. 546-170.000.
- Doell, Andreas: *See—*
    - Thiel, Rudolf; and Doell, Andreas. 4,643,278, Cl. 188-72.700.
- Doellgast, George J., to Wake Forest University. Detecting blood clotting factors with immobilized fibrinogen and labeled fibrinogen. 4,668,621, 5-26-87, Cl. 435-13.000.
- Doelves, Juergen; and Schroedter, Wolfgang, to Dr.-Ing. Rudolf Hell GmbH. Method for engraving printing cylinders having seamless joints within repeated patterns. 4,688,101, 8-18-87, Cl. 358-299.000.
- Doemens, Gunter, to Siemens Aktiengesellschaft. Apparatus for electrical function checking of wiring matrices. 4,705,329, 11-10-87, Cl. 324-73.0PC.
- Doemer, Josef: *See—*
    - Burgmeier, Juergen; and Doemer, Josef, 4,688,226, Cl. 371-57.000.
- Doerbeck, Friedrich H.: *See—*
    - McLevige, William V.; Yuan, Han-Tzong; Duncan, Walter M.; and Doerbeck, Friedrich H., 4,654,960, Cl. 29-576.00B.
- Doerfel, Stephen; Pokorny, Anthony G.; and Rubin, Howard H., to L B & M Associates, Inc. Combined arms effectiveness simulation system. 4,682,953, 7-28-87, Cl. 434-16.000.
- Doerfler, Rudolf; Krause, Kurt; Kummerow, Gerd; Moerman, Boudewijn; Schnabel, Rudolf; Schroether, Gerhard; Voigt, Rolf; Weidner, Georg; and Zentgraf, Lothar, to Siemens Aktiengesellschaft. System for monitoring the operating condition of a switch to prevent overstress. 4,670,812, 6-2-87, Cl. 361-83.000.
- Doering, Charles W., to Brinly-Hardy Co., Inc. Pulled dethatching unit. 4,689,941, 9-1-87, Cl. 56-396.000.
- Doering, Garry L. Pitless adaptor. 4,687,056, 8-18-87, Cl. 166-88.000.
- Doering, Joachim: *See—*
    - Wingler, Frank; Koch, Otto; Doering, Joachim; Ott, Karl-Heinz; and Liebig, Lothar, 4,639,473, Cl. 525-83.000.
- Doering, Robert R., to Texas Instruments Incorporated. Method of making MOS VLSI semiconductor device with metal gate and clad source/drain. 4,661,374, 4-28-87, Cl. 427-88.000.
- Doering, Robert R.; Duane, Michael P.; and Armstrong, Gregory J., to Texas Instruments Incorporated. High density CMOS integrated circuit manufacturing process. 4,677,739, 7-7-87, Cl. 29-576.00B.
- Doering, Robert R.; and Armstrong, Gregory J., to Texas Instruments Incorporated. Method of making field-plate isolated CMOS devices. 4,696,092, 9-29-87, Cl. 437-5.000.
- Doerman, Eryk S.; Turner, William J.; Homer, David A.; Stewart, Andrew D. G.; and Clarke, Ian. Weighing a number of objects in succession. 4,696,358, 9-29-87, Cl. 177-145.000.
- Doerr, Erwin; and Wood, Prentice J., to Mead Corporation, The. Carrying handle for can carton. 4,681,252, 7-21-87, Cl. 229-52.00B.
- Doerr, Erwin: *See—*
    - Wood, Prentice J.; and Doerr, Erwin, 4,653,686, Cl. 229-52.00B.
- Doersam, Wolfgang: *See—*
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- Doery, Michael S.: *See—*
    - Bober, Henry T.; and Doery, Michael S., 4,708,469, Cl. 355-77.000.
- Doesburg, James M.: *See—*
    - Ames, Kenneth R.; Doesburg, James M.; Eschbach, Eugene A.; Kelley, Roy C.; and Myers, David A., 4,669,536, Cl. 166-68.000.
    - Ames, Kenneth R.; and Doesburg, James M., 4,688,999, Cl. 417-550.000.
- Doessel, Karl-Friedrich; and Lingnau, Juergen, to Hoechst Aktiengesellschaft. Electrophotographic recording material having a photoconductive double layer, and process for its manufacture. 4,654,283, 3-31-87, Cl. 430-57.000.
- Doetsch, Paul: *See—*
    - Suhadolnik, Robert J.; Wu, Joseph M.; Doetsch, Paul; and Henderson, Earl E., 4,708,935, Cl. 435-91.000.
- Doetsch, Werner; and Siegel, Rudolf, to Kali-Chemie Aktiengesellschaft. Process for producing solid aluminum chloride compositions. 4,681,697, 7-21-87, Cl. 252-175.000.
- Doetsch, Werner; and Siegel, Rudolf, to Peroxid-Chemie GmbH. Superoxidized sodium perborate. 4,681,748, 7-21-87, Cl. 423-279.000.
- Dofasco Inc.: *See—*
    - Easton, Trevor A.; and Gaiser, John A., 4,693,185, Cl. 105-199.200.
- Dofel, Andrew W. R., to Supafit Gymnasium Equipment Pty, Limited. Resilient support. 4,693,471, 9-15-87, Cl. 272-136.000.
- Dogadko, Peter; and Enlow, David, to Outboard Marine Corporation. Overspeed/overheat circuit with a latch for capacitive ignition systems. 4,641,618, 2-10-87, Cl. 123-335.000.
- Dogadko, Peter, to Outboard Marine Corporation. Programmed electronic advance for engines. 4,646,696, 3-3-87, Cl. 123-416.000.
- Dogadko, Peter, to Outboard Marine Corporation. Regulator overvoltage circuit. 4,659,978, 4-21-87, Cl. 320-71.000.
- Dogadko, Peter, to Outboard Marine Corporation. Timed priming system with temperature override. 4,671,225, 6-9-87, Cl. 123-187.50R.
- Doggett, David E., to Synergy Computer Graphics Corporation. Electrostatic printing apparatus. 4,672,400, 6-9-87, Cl. 346-160.000.
- Doggrell, Leslie A.: *See—*
    - Choyke, Wolfgang J.; Wood, Susan; Scala, Luciano C.; Zussman, Melvin P.; Doggrell, Leslie A.; and Lauer, Janet S., 4,711,822, Cl. 428-458.000.
- Doguchi, Nobushige: *See—*
    - Nagai, Yoshitaka; and Doguchi, Nobushige, 4,686,754, Cl. 29-418.000.
- Doherty, Brian J.: *See—*
    - Harvey, Andrew C.; and Doherty, Brian J., 4,662,657, Cl. 285-96.000.
- Doherty, Henry R., to Winandy Greenhouse Company, Inc. Triple-glaze greenhouse structure. 4,658,559, 4-21-87, Cl. 52-463.000.
- Doherty, James B.; Finke, Paul E.; Firestone, Raymond A.; Shah, Shrenik S.; and Thompson, Kevan R., to Merck & Co., Inc. Substituted cephalosporins as anti-inflammatory and antidegenerative agents. 4,637,999, 1-20-87, Cl. 514-201.000.
- Doherty, James B.; Finke, Paul E.; Hagmann, William K.; and Shah, Shrenik K., to Merck & Co., Inc. Tetrazolyl derivatives of β-lactams useful as elastase inhibitors. 4,699,904, 10-13-87, Cl. 514-202.000.
- Doherty, James B.: *See—*
    - Finke, Paul E.; Doherty, James B.; Zimmerman, Morris; Ashe, Bonnie M.; and Dorn, Conrad P., 4,711,886, Cl. 514-195.000.
- Doherty, James E.; and Nessler, Charles G., to United Technologies Corporation. Powder metal disk with selective fatigue strengthening. 4,563,241, 5-5-87, Cl. 428-547.000.
- Doherty, John A.; Ward, Billy W.; and Shaver, David C., to Micrion Limited Partnership. Focused ion beam processing. 4,639,301, 1-27-87, Cl. 204-192.310.
- Doherty, Paul D.: *See—*
    - Clark, Roger A.; Doherty, Paul D.; and Tolnar, Emil J., Jr., 4,684,190, Cl. 439-587.000.
- Doherty, Roger D.: *See—*
    - Lifka, Bernard W.; Liu, John; and Doherty, Roger D., 4,659,396, Cl. 148-11.50A.
- Dohi, Hideyuki: *See—*
    - Sato, Atsushi; Endo, Keiji; Kawakami, Shigenobu; and Dohi, Hideyuki, 4,639,833, Cl. 361-315.000.
    - Sato, Atsushi; Endo, Keiji; Dohi, Hideyuki; and Kawakami, Shigenobu, 4,670,348, Cl. 428-461.000.
    - Sato, Atsushi; Kawakami, Shigenobu; Endo, Keiji; and Dohi, Hideyuki, 4,716,084, Cl. 428-458.000.
- Dohi, Masaaki: *See—*
    - Maekawa, Nobuaki; Shimizu, Shigeru; Dohi, Masaaki; and Kuriyama, Yoji, 4,660,962, Cl. 355-15.000.
- Dohi, Nobuyasu: *See—*
    - Obata, Keigo; Dohi, Nobuyasu; Okuhama, Yoshiaki; Masaki, Seishi; Okada, Yukiyoshi; and Yoshimoto, Masakazu, 4,673,470, Cl. 204-44.400.
- Dohi, Ryosuke: *See—*
    - Ogawa, Hiroshi; Sonoda, Yoshiteru; and Dohi, Ryosuke, 4,645,176, Cl. 251-129.080.
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- Dohi, Takashi: *See—*
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- Dohler, Werner; Merz, Ludwig; Frohnert, Heinz; Uckermann, Bernd; Graeser, Ulrich; Jankowski, Alfons; Wolowski, Eckard; Tamm, Hans-Friedrich; and Wilczok, Norbert, to Veba Oel Entwicklungs-Gesellschaft mbH. Process for the production of reformer feed and heating oil or diesel oil from coal by liquid-phase hydrogenation and subsequent gas-phase hydrogenation. 4,639,310, 1-27-87, Cl. 208-412.000.
- Dohmeier, Hans-Otto. Chain winch. 4,646,805, 3-3-87, Cl. 152-172.000.
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- Dohner, Brent R., to Pennzoil Product Company. Succinic acid esters and hydraulic fluids therefrom. 4,689,166, 8-25-87, Cl. 252-75.000.
- Dohnert, Mario, Jr.: *See—*
  - Bruzzese, Vincent J.; and Dohnert, Mario, Jr., 4,640,275, Cl. 128-133.000.
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- Doi, Akira: *See—*
  - Shimizu, Yasuhiro; and Doi, Akira, 4,634,600, Cl. 427-38.000.
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- Doi, Hajime: *See—*
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- Doi, Haruo: *See—*
  - Hashimoto, Kenki; Doi, Haruo; Tokuzou, Tsujimoto; Osamu, Nakano; and Minoru, Nobuki, 4,661,316, Cl. 420-418.000.
  - Kamigaito, Osami; Doi, Haruo; Noda, Shoji; and Yamamoto, Nobuyuki, 4,645,115, Cl. 228-121.000.
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  - Mizuno, Hiroshi; Iino, Shuji; Osawa, Izumi; and Doi, Isao, 4,659,639, Cl. 430-65.000.
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- Doi, Keiichiro: *See—*
  - Mizuno, Hideaki; and Doi, Keiichiro, 4,646,282, Cl. 369-126.000.
- Doi, Kengo; Nitta, Shinichi; Kusakari, Masaki; and Takahashi, Nobuhiko, to Takada Seiyaku Kabushiki Kaisha. Solid nifedipine preparations and a process for preparing same. 4,665,081, 5-12-87, Cl. 514-356.000.
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- Doi, Koichi, to Nissan Motor Co., Ltd. Air conditioner. 4,640,183, 2-3-87, Cl. 98-2.010.
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  - Sakurai, Yukio; and Doi, Koichi, 4,653,689, Cl. 237-12.30B.
- Doi, Masahiro: *See—*
  - Fujiwara, Tsutomu; Matsuda, Susumu; Murakami, Keisuke; Ogawa, Izumi; Tago, Mamoru; Aoki, Chiharu; Doi, Masahiro; and Anno, Hiroshi, 4,711,443, Cl. 271-126.000.
- Doi, Masanori: *See—*
  - Funada, Saburo; Yoda, Yoshiro; Yoshikawa, Shoji; Doi, Masanori; and Sugawara, Kazutake, 4,706,232, Cl. 369-13.000.
- Doi, Muneharu: *See—*
  - Miyagawa, Kenichiro; Doi, Muneharu; and Akiyama, Shunichi, 4,701,413, Cl. 435-88.000.
- Doi, Nobukazu; Izumita, Morishi; Mita, Seiichi; Eto, Yoshizumi; and Rokuda, Morito, to Hitachi, Ltd., and Hitachi Denshi Kabushiki Kaisha. Method for decoding double-encoding codes and apparatus using the same. 4,653,052, 3-24-87, Cl. 371-39.000.
- Doi, Nobukazu: *See—*
  - Mita, Seiichi; Izumita, Morishi; Michikawa, Yuichi; Katayama, Hitoshi; Shiono, Hiroshi; Takagi, Hitoshi; Rokuda, Morito; and Doi, Nobukazu, 4,682,115, Cl. 328-164.000.
- Doi, Nobuo: *See—*
  - Matsuura, Masahiko; Doi, Nobuo; Yoshioka, Sadashichi; Okimoto, Haruo; and Ueda, Kazuhiko, 4,683,856, Cl. 123-136.000.
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- Doi, Seiichi: *See—*
  - Ahagon, Asahiro; Kobayashi, Toshio; Yamada, Kazuhiro; Doi, Seiichi; and Misawa, Makoto, 4,635,693, Cl. 152-209.00R.
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- Doi, Shunichi: *See—*
  - Ikemoto, Hiroyuki; Oowa, Nobutaka; Hayashi, Yasutaka; and Doi, Shunichi, 4,693,493, Cl. 280-707.000.
- Doi, Takashi: *See—*
  - Ogata, Mikito; Mori, Masahito; Doi, Takashi; Miyazaki, Michio; and Oka, Takafumi, 4,638,472, Cl. 369-54.000.
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- Doi, Toshitada; Brandes, Claudia; and Lagadec, Roger, to Sony Corporation; and Willi Studer AG. Method of digital signal transmission. 4,644,546, 2-17-87, Cl. 371-49.000.
- Doi, Yasuhumi: *See—*
  - Harada, Yoshiaki; Okino, Teizou; Mathura, Hiroyuki; Doi, Yasuhumi; and Yamasaki, Kenichi, 4,654,149, Cl. 210-763.000.
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- Doi, Yoshiharu: *See—*
  - Suzuki, Shigeo; Doi, Yoshiharu; and Soga, Kazuo, 4,695,557, Cl. 502-103.000.
- Doi, Yoshihiko; Kuroishi, Nobuhito; Ochi, Shigeki; and Uenishi, Noboru, to Director-General of Agency of Industrial Science and Technology. Manufacturing method of super-heat-resisting alloy material. 4,710,345, 12-1-87, Cl. 419-28.000.
- Doi, Yoshiki; Inabe, Mitsuo; and Noro, Osamu, to Kawasaki Jukogyo Kabushiki Kaisha. Heat activated heat pump. 4,683,723, 8-4-87, Cl. 62-6.000.
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  - Asano, Kazuhiko; Takezoe, Osamu; Yasuda, Yoshinori; Hayashi, Kenji; Aoki, Masanobu; Doi, Yoshio; and Shimata, Makoto, 4,648,918, Cl. 148-439.000.
- Doi, Yuzuru, to Asahi Kogaku Kogyo Kabushiki Kaisha. Laser knife. 4,676,242, 6-30-87, Cl. 128-303.100.
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- Doiron, Robert D.: *See—*
  - Reimer, Jay B.; and Doiron, Robert D., 4,704,696, Cl. 364-513.500.
- Doittau, Pierre O.; and Moal, Herve, to Matra. Device for monitoring the state of an electric switch or an electric relay. 4,710,645, 12-1-87, Cl. 307-115.000.
- Dojel, Bernhard. Entrance ticket. 4,705,301, 11-10-87, Cl. 283-105.000.
- Doki, Yoshikuni; Fujiwara, Masatoshi; Shiga, Tatsuhide; Shono, Yohsuke; Tanaka, Mikio; and Tsuruoka, Yoshihiro, to Yamatake-Honeywell Co., Ltd. Explosion-proof electro-displacement converter device. 4,649,359, 3-10-87, Cl. 335-222.000.
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  - Fujishige, Masao; Yokokawa, Harumi; Ujiie, Seiichi; and Dokiya, Masayuki, 4,681,626, Cl. 75-68.00A.
- Dokkestul, Jeffrey L.; and Ochrymowycz, Leo A. Method for foliage and other plant material preservation and topical color application to same. 4,664,956, 5-12-87, Cl. 428-22.000.
- Dokoshi, Noriaki: *See—*
  - Nakagima, Masashi; Kojima, Hiroshi; Matsui, Tatsuro; and Dokoshi, Noriaki, 4,698,407, Cl. 528-14.000.
- Dola, Frank P.; Siwinski, Paul P.; and Zwieg, Grover A., to AMP Incorporated. Adaptor for coupling a cable to a connector. 4,640,569, 2-3-87, Cl. 339-143.00R.

Dola, Frank P.: *See—*
Bennett, Glenn E.; Look, Raymond J.; Dola, Frank P.; Thurman, Richard E.; and Siwinski, Paul P., 4,680,423, Cl. 174-36.000.

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Dolan, Michael J.; Hilbert, Timothy L.; and Snyder, John D., to Mobil Oil Corporation. Methods of particulate measurement. 4,678,483, 7-7-87, Cl. 55-97.000.

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Dolata, Gerald. Energy saving and endurance log for a log building. 4,649,683, 3-17-87, Cl. 52-233.000.

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Dolbear, Keith D.: *See—*
Harding, John D.; and Dolbear, Keith D., 4,663,368, Cl. 523-155.000.

Dolberg, Dale R.: *See—*
Williams, Terry A.; deBuhr, Harold E.; Dolberg, Dale R.; and Suechting, Henry W., Jr., 4,663,918, Cl. 56-10.200.

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Todd, Craig C., 4,656,633, Cl. 371-54.000.
Todd, Craig C.; and Gundry, Kenneth J., 4,700,361, Cl. 375-25.000.
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Thau, Lawrence W., Jr.; and Dole, Douglas R., 4,702,500, Cl. 285-112.000.

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Buck, Keith T.; Boeing, Anthony J.; and Dolfini, Joseph E., 4,673,766, Cl. 568-433.000.

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deMey, Charles F.; and Dolgen, Igor E., 4,669,324, Cl. 74-89.150.

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Saingier, Jean; and Joly, Jean-Pierre A., 4,695,641, Cl. 549-552.000.

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Hombach, Rudolf; Reiff, Helmut; and Dollhausen, Manfred, 4,663,377, Cl. 524-196.000.

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Henklein, Peter; Becker, Manfred; Buttner, Werner; Loth, Fritz; Dautzenberg, Horts; Forner, Klaus; Dolling, Rudolf; Graul, Karl-Heinz; Halatsch, Wolf-Rainer; and Rupprich, Christian, 4,714,768, Cl. 548-435.000.

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Nemeth, Attila; Dolozselek, Gyula; Mikics, Laszlo; Molnar, Bela; Sallai, Mihaly; Liska, Sandor; and Speck, Gyula, 4,670,901, Cl. 379-292.000.

Dolph, Darrel A.: *See—*

Ingraham, Ronald D.; and Dolph, Darrel A., 4,672,278, Cl. 318-283.000.

Ko, Clyde M. A.; and Dolph, Darrel A., 4,689,609, Cl. 340-38.40E.

Dolph, Michael W.: *See—*

Rice, Steven J.; Thompson, Gilbert M.; Dolph, Michael W.; and Montoya, Daniel D., 4,684,259, Cl. 366-185.000.

Dolphin, John M., to Polaroid Corporation, Patent Dept. 2-hydroxy ethyl benzyl pyridinium compounds. 4,677,206, 6-30-87, Cl. 546-344.000.

Dolphin Machinery Limited: *See—*

Ciniglio, Alexander J.; and Tombs, Michael, 4,651,916, Cl. 228-37.000.

Ciniglio, Alexander J., 4,700,878, Cl. 228-37.000.

Dolphin Manufacturing, Inc.: *See—*

Bostic, Gerald D., Sr., deceased, 4,662,850, Cl. 441-123.000.

Dolsen, Phillip C.; and Slabinski, Chet J., to Babcock & Wilcox Company, The. Access control for a plurality of modules to a common bus. 4,652,873, 3-24-87, Cl. 340-825.500.

Doluca, Tunc, to Intersil, Inc. Flash analog to digital converter. 4,639,715, 1-27-87, Cl. 340-347.0AD.

Doluca, Tunc; and Boyacigiller, Ziya G., to Intersil, Inc. Analog to digital converter with parallel and successive approximation stages. 4,641,129, 2-3-87, Cl. 340-347.0AD.

Doluca, Tunc, to Intersil, Inc. Frequency response amplifier. 4,667,164, 5-19-87, Cl. 330-253.000.

Domagala, John M.: *See—*

Culbertson, Townley P.; Domagala, John M.; Mich, Thomas F.; and Nichols, Jeffrey B., 4,638,067, Cl. 546-15.000.

Culbertson, Townley P.; Domagala, John M.; Mich, Thomas F.; and Nichols, Jeffrey B., 4,665,079, Cl. 514-312.000.

Mich, Thomas F.; Domagala, John M.; and Nichols, Jeffrey B., 4,657,913, Cl. 514-278.000.

Mich, Thomas F.; Sanchez, Joseph P.; Domagala, John M.; and Trehan, Ashok K., 4,663,457, Cl. 546-123.000.

Domain, Inc.: *See—*

Burghardi, Stephen R., 4,692,265, Cl. 252-194.000.

Doman, D. Mark; and Moss, William R., to Dewey Electronics Corporation, The. Snowmaking machine with compressed air driven reaction fan. 4,682,729, 7-28-87, Cl. 239-2.200.

Doman, Glidden S.; Kos, Joseph M.; Harner, Kermit I.; DiValentin, Eugene D.; and Healy, Henry S., to United Technologies Corporation. Variable speed wind turbine. 4,695,736, 9-22-87, Cl. 290-44.000.

Doman, Herbert M., to Everest & Jennings, Inc. Current sharing circuit. 4,694,227, 9-15-87, Cl. 318-80.000.

Domann, Gunter, to Standard Elektrik Lorenz Aktiengesellschaft. Rotation rate measuring instrument having reduced reflection interference. 4,645,345, 2-24-87, Cl. 356-350.000.

Domas, Dennis R. Offset nipple. 4,639,017, 1-27-87, Cl. 285-38.000.

Dombay, Zsolt; Grega nee Toth, Erzsebet; Nagy, Jozsef; Pavliscsak, Csaba; Tasi, Laszlo; Toth, Andras; Toth, Oszkar; Vitanyi, Judit; Bihari, Ferenc; Bohus, Peter; Inczedy, Peter; Magyari, Istvan; Kertesz nee Szabo, Marianna; Wohl, Laszlo; and Ferenczi, Attila, to Eszakmagyarorszagi Vegyimuvek; and Budapesti Vegyimuvek. Synergistic fungicidal compositions. 4,670,429, 6-2-87, Cl. 514-187.000.

Dombek, Bernard D., to Union Carbide Corporation. Process for producing alcohols. 4,703,064, 10-27-87, Cl. 518-700.000.

Dombro, Robert A.: *See—*

Hwang, Yu-Tang; Pebsworth, Lloyd; Dombro, Robert A.; and Hoff, Raymond E., 4,634,744, Cl. 526-84.000.

Dombroski, Robert M.; and Kayser, John P., to Madison-Kipp Corporation. Wheel flange and rail lubricator apparatus. 4,711,320, 12-8-87, Cl. 184-3.200.

Dombrowski, Michael A.; and Eikeland, Nancy M., to Dombrowski, Michael A. Instructional device for tennis players. 4,711,633, 12-8-87, Cl. 434-247.000.

Dombrowski, Mitchell P. Blood sampler. 4,653,513, 3-31-87, Cl. 128-765.000.

Dombrowski, Mitchell P. Fetal blood sampling instrument. 4,660,570, 4-28-87, Cl. 128-765.000.

Dombrowski, Theodor; and Klosterhalfen, Hartwig, to Wilhelm Hegenscheidt Gesellschaft mbH. Method for achieving chip separation while machining work pieces. 4,667,546, 5-26-87, Cl. 82-1.00C.

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Dombrowski, Theodor: *See—*

Lung, Dieter; Kluft, Werner; Fabry, Jochen; Wittkopp, Helmut; Dombrowski, Theodor; and Klosterhalfen, Hartwig, 4,711,146, Cl. 82-1.00C.

Domeier, Linda A., to Amoco Corporation. Aromatic bismaleimide and prepreg resin therefrom. 4,654,407, 3-31-87, Cl. 526-262.000.

Domeier, Linda A.; and Gardner, Hugh C., to Amoco Corporation. Bismaleimides and prepreg resins therefrom. 4,691,025, 9-1-87, Cl. 548-521.000.

Domeier, Linda A.: *See—*

Koleske, Joseph V.; and Domeier, Linda A., 4,683,287, Cl. 528-357.000.

Domeier, Wayne H.: *See—*

Chin, Laurence D.; Hiscock, Christopher J.; and Domeier, Wayne H., 4,714,865, Cl. 318-563.000.

Domen, Jean-Paul. Globe maps and derived products. 4,714,351, 12-22-87, Cl. 368-17.000.

Domenichini, Carlo; and Gastaldin, Gaetano, to Axis S.p.A. Apparatus and method for determining the resistance of a coil connection of an electric motor winding. 4,651,086, 3-17-87, Cl. 324-64.000.

Domenici, Gilberto: *See—*

Corallo, Gianbattista; and Domenici, Gilberto, 4,666,039, Cl. 206-424.000.

Domenighetti, Domenico, to ŞIMESA-Societa Italiana Montaggi e Servizi Affini S.p.A. Pneumatic integral polygonal suspension for vibrating tamping machines. 4,655,636, 4-7-87, Cl. 404-117.000.

Domenighetti, Domenico, to Simesa-Societa Italiana Montaggi e Servizi Affini S.p.A. Device for controlling the pressure upon the ground of a screed unit of vibrating finishing machine for road paving. 4,682,908, 7-28-87, Cl. 404-84.000.

Domenik, Stephen L.; Folmsbee, Alan C.; Nguyen, Tai; and Shirgley, David A., to Intel Corporation. Random number generator for use in an authenticated read-only memory. 4,694,412, 9-15-87, Cl. 364-717.000.

Domeratzky, Joachim: *See—*

Grutte, Friedrich-Karl; Petzold, Heinrich; Walter, Ulrich; Bogs, Gunhild; Domeratzky, Joachim; Gartner, Helmut; Schulze, Jurgen; Zunft, Hans-Joachim; Pulz, Otto; Luft, Christa; Muller, Walheide; Wolk, Petra; Dahlke, Hannelore; and Volkmer, Margret, 4,692,340, Cl. 426-72.000.

Domes, David C., to GTE Sprint Communications Corporation. Method and apparatus for protecting buried optical fiber cable. 4,652,861, 3-24-87, Cl. 340-539.000.

Domestic Sales Corporation: *See—*

Mossbach, Wilhelm, 4,662,350, Cl. 126-101.000.

Domet, Jack: *See—*

Shah, Dhiren N.; Hammer, Gregory V.; and Domet, Jack, 4,671,823, Cl. 106-197.100.

Domges, Gunther: *See—*

Wurfel, Reinhart; Zangenfeind, Helmut; Domges, Gunther; and Kugel, Raimund, 4,643,371, Cl. 242-55.000.

Domingos, Dennis A.: *See—*

Mann, William B.; and Domingos, Dennis A., 4,657,274, Cl. 280-433.000.

Dominguez, Ben, to Formers of Houston, Inc. Packaging machines and wear strips therefor. 4,711,068, 12-8-87, Cl. 53-551.000.

Dominguez, Peter R. Modified arch support. 4,702,044, 10-27-87, Cl. 52-86.000.

Dominguez, Richard J. G.: *See—*

Grigsby, Robert A., Jr.; Dominguez, Richard J. G.; and Speranza, George P., 4,705,814, Cl. 521-159.000.

DoMinh, Thap; and Diehl, Donald R., to Eastman Kodak Company. Positive photoresist with antireflection coating having thermal stability. 4,668,606, 5-26-87, Cl. 430-271.000.

DoMinh, Thap; Fleming, James C.; and Lindstrom, Michael J., to Eastman Kodak Company. Photoresist compositions containing quinone sensitizer. 4,684,599, 8-4-87, Cl. 430-270.000.

Dominiani, Frank J., Jr.: *See—*

Annarelli, Dennis C.; and Dominiani, Frank J., Jr., 4,681,964, Cl. 558-112.000.

McCracken, Alan; Dominiani, Frank J., Jr.; and DeJarnette, Edward A., Jr., 4,697,739, Cl. 239-127.000.

Dominianni, Samuel J.; and Yen, Terence T., to Eli Lilly and Company. Imidazolium hypoglycemic agents. 4,683,312, 7-28-87, Cl. 548-341.000.

Dominico, James; Fardin, Carlos E.; and Alessio, Ralph G., to Van Dam Machine Corporation. Tube aligning assembly for tube printer. 4,669,376, 6-2-87, Cl. 101-38.00A.

Dominico, James; and Mrak, Joseph L., to Van Dam Machine Corporation. Transfer assembly for tube printing apparatus. 4,671,093, 6-9-87, Cl. 72-133.000.

Dominion Al-Chrome Corporation Ltd.: *See—*

Svirklys, Ferdinand M.; and Lancucki, Peter G., 4,655,156, Cl. 114-266.000.

Dominion Tool and Die Company: *See—*

Kozlowski, Chester P.; and Lawson, Lawrence J., 4,635,339, Cl. 29-526.00R.

Dominique, Eugene: *See—*

Correge, Gilbert; Dominique, Eugene; and Ciprian, Danilo, 4,703,908, Cl. 244-118.500.

Dominique, Harry P.; and Waggoner, Clinton A., to Canada, Her Majesty the Queen in right of, as represented by the Minister of National Defence. Jig for inscribing a substrate. 4,659,179, 4-21-87, Cl. 350-320.000.

Domino Printing Sciences Limited: *See—*

Needham, Alan, 4,658,268, Cl. 346-1.100.

- Domino Printing Sciences PLC: *See—*
  - Doyle, James J.; and Lecheheb, Ammar, 4,688,049, Cl. 346-1.100.
  - Erskine, William G.; and Marsden, Richard J., 4,714,931, Cl. 346-75.000.
- Domke, Klaus, to Robert Bosch GmbH. Method for producing a packaging container having a pressure relief valve. 4,690,667, 9-1-87, Cl. 493-213.000.
- Domke, Klaus: *See—*
  - Buchner, Norbert; and Domke, Klaus, 4,653,661, Cl. 220-209.000.
- Domkowski, Ron, to Halogen Insulator & Seal Corp. Information carrier and method of use. 4,652,528, 3-24-87, Cl. 436-56.000.
- Dommer, Erich; Rechtziegel, Bruno; and Tauber, Klaus, to Berkenhoff GmbH. Filler metal for welding. 4,701,302, 10-20-87, Cl. 420-470.000.
- Domnanovich, James R.: *See—*
  - Groch, Mark W.; and Domnanovich, James R., 4,649,930, Cl. 128-695.000.
- Domnick Hunter Filters Limited: *See—*
  - Billiet, Colin T.; Fielding, Robert M.; and Spark, Leslie B., 4,668,256, Cl. 55-219.000.
  - Billiet, Colin T.; Baggett, David; and Fielding, Robert M., 4,696,687, Cl. 55-316.000.
  - Billiet, Colin T.; and Baggett, David, 4,701,258, Cl. 210-232.000.
- Domnitch, Irving. Incinerator system arrangement with dual scrubbing chambers. 4,635,569, 1-13-87, Cl. 110-215.000.
- Domnitch, Irving. Incinerator towable by a vehicle for burning refuse. 4,688,494, 8-25-87, Cl. 110-240.000.
- Domnitz, David K.: *See—*
  - Owen, Dave L.; and Domnitz, David K., 4,704,843, Cl. 53-450.000.
- Domogalla, John C., to Texas Instruments, Inc. Voltage comparator. 4,665,326, 5-12-87, Cl. 307-362.000.
- Domoto, Gerald A.; and Sereny, Aron, to Xerox Corporation. Thermo-optic light modulation array. 4,635,082, 1-6-87, Cl. 346-160.000.
- Domoto, Gerald A.: *See—*
  - Solcz, Edward J.; Domoto, Gerald A.; and Wolf, Barry M., 4,691,212, Cl. 346-108.000.
- Domoto, Hideki; and Kimura, Takashi, to Ryobi Ltd. Operation lever controller for two-color printing apparatus. 4,671,176, 6-9-87, Cl. 101-177.000.
- Domoto, Yasuo: *See—*
  - Yagi, Takashi; Horii, Yoshiharu; and Domoto, Yasuo, 4,697,942, Cl. 400-208.000.
- Domovs, Jean R.; and Rice, Willard H., to Domovs, Jean R. Hygienic wheelchair seat for extended use. 4,713,848, 12-22-87, Cl. 4-480.000.
- Dompas, John M. A.: *See—*
  - Tylko, Jozef K.; Govaerts, Marcel K.; and Dompas, John M. A., 4,670,640, Cl. 219-121.0PC.
- Dompe' Farmaceutici S.p.A.: *See—*
  - Borsa, Massimiliano; Tonon, Giancarlo; and Malandrino, Salvatore, 4,699,911, Cl. 514-255.000.
  - Giano, Roberto; Parini, Ettore; Malandrino, Salvatore; and Tonon, Giancarlo, 4,659,707, Cl. 514-215.000.
- Domtar Inc.: *See—*
  - Avedesian, Michael M., 4,714,591, Cl. 422-140.000.
  - Cukier, Samuel; and Khan, Irshad A., 4,654,152, Cl. 252-8.800.
  - Fischer, David, 4,715,519, Cl. 225-48.000.
  - Janssen, Wladmir, 4,694,683, Cl. 73-63.000.
  - St-Michel, Andre, 4,642,268, Cl. 428-453.000.
- Don Fell Limited: *See—*
  - Takeuchi, Seiji; and Anger, Byron H., 4,641,760, Cl. 220-1.00B.
  - Takeuchi, Seiji; and Anger, Byron H., 4,684,026, Cl. 206-522.000.
- Don Gilbert Industries, Inc.: *See—*
  - Bowman, Norman E., 4,682,147, Cl. 340-286.00R.
- Don Joy Orthopedic, Inc.: *See—*
  - Mason, Bradley R.; and Mason, Jeffrey T., 4,643,176, Cl. 128-80.00C.
  - Mason, Bradley R.; Mason, Jeffrey T.; and Cawley, Patrick W., 4,697,583, Cl. 128-80.00C.
- Don Marketing Management Limited: *See—*
  - Donovan, John A., 4,634,149, Cl. 283-102.000.
- on Michael, T. Anthony; and Lambert, Edward H. Non-invasive cardiac device. 4,706,688, 11-17-87, Cl. 128-785.000.
- on Whitley Scientific Limited: *See—*
  - Whitley, Donald C., 4,686,188, Cl. 435-287.000.
- na, Marinus J. J.: *See—*
  - Koster, Marinus P.; Soemers, Hermanus M. J. R.; and Dona, Marinus J. J., 4,713,977, Cl. 74-191.000.
- na, Valerio, to Miles Italiana S.p.A. Specific binding assay employng anti-G6PDH as label. 4,686,181, 8-11-87, Cl. 435-7.000.
- nachie, Stephen: *See—*
  - Gilman, Paul S.; Jatkar, Arun D.; Donachie, Stephen; Woodard, Winfred L., III; and Mattson, Walter E., 4,668,470, Cl. 419-32.000.
- achie, Stephen J.: *See—*
  - Gilman, Paul S.; and Donachie, Stephen J., 4,643,780, Cl. 148-12.70A.
  - Gilman, Paul S.; Jatkar, Arun D.; Donachie, Stephen J.; Woodward, Winfred L., III; and Mattson, Walter E., 4,668,282, Cl. 75-0.50R.
- ahoe, Thomas S.: *See—*
  - Cioffi, Paul L.; Donahoe, Thomas S.; and Keith, George R., 4,655,395, Cl. 239-427.000.
- ahue, John: *See—*
  - Breault, Richard D.; and Donahue, John, 4,652,502, Cl. 429-13.000.
- ahue, Robert L.: *See—*
  - Hamilton, Harold F.; and Donahue, Robert L., 4,663,855, Cl. 33-288.000.
  - Hamilton, Harold F.; and Donahue, Robert L., 4,691,443, Cl. 33-288.000.
- Donahue, William R., Jr., to Appliance Valves Corporation. Direct acting valve assembly. 4,651,971, 3-24-87, Cl. 251-129.150.
- Donald, David K.; Hann, Michael M.; Saunders, John; and Wadsworth, Harry J., to G. D. Searle & Co. Intermediate for thiol based collagenase inhibitors. 4,681,966, 7-21-87, Cl. 558-255.000.
- Donald, Raymond G.: *See—*
  - Conner, George W.; Donald, Raymond G.; and Cline, Ronald L., 4,694,566, Cl. 437-48.000.
- Donald W. Lloyd Realty, Inc.: *See—*
  - Lloyd, Donald W., 4,693,864, Cl. 419-23.000.
- Donald, William W.: *See—*
  - Carlson, Steven J.; Donald, William W.; and Lepine, James J., 4,685,481, Cl. 134-155.000.
- Donaldson, A. Burl: *See—*
  - Eisenhawer, Stephen; Mulac, Anthony J.; Donaldson, A. Burl; and Fox, Ronald L., 4,648,835, Cl. 431-4.000.
- Donaldson, Charles W.: *See—*
  - Kellie, Truman F.; Moiz, Teresa M.; Manley, Mark B.; and Donaldson, Charles W., 4,659,221, Cl. 356-241.000.
- Donaldson Company, Inc.: *See—*
  - Barris, Marty A.; and Zelinka, Richard L., 4,650,506, Cl. 55-487.000.
  - Brenholt, David L., 4,661,039, Cl. 414-735.000.
  - Brenholt, David L.; Crane, Stephen M.; Fischer, Paul M.; and Mattson, Kenneth V., 4,693,663, Cl. 414-735.000.
  - Gieseke, Steven S.; and Engel, Donald F., 4,699,639, Cl. 55-385.00B.
  - Gronholz, Donald D.; Schneider, Kirk A.; and Scott, James R., 4,657,570, Cl. 55-385.00E.
  - LeBlanc, James A.; and Durre, Reynold F., 4,704,144, Cl. 55-300.000.
  - Schuler, Fredrick E., 4,702,269, Cl. 137 246.120.
  - Tokar, Joseph C.; and Krisko, William J., 4,647,373, Cl. 210-232.000.
  - Wagner, Wayne M.; and Bethke, Timothy A., 4,676,111, Cl. 73-865.600.
- Donaldson, Michael J.; Pue-Gilchrist, James D.; and Scott, James R., to Northern Telecom Limited. Cabinet for optical cable terminating equipment. 4,708,430, 11-24-87, Cl. 350-96.200.
- Donaldson, Ralph W.: *See—*
  - Gunter, William D., Jr.; Donaldson, Ralph W.; and Anderson, Alma G., Jr., 4,697,922, Cl. 356-28.500.
- Donaldson, Richard E.; and Hoops, John F., to Merrell Dow Pharmaceuticals Inc. Medroxalol intermediates. 4,697,024, 9-29-87, Cl. 549-444.000.
- Donaldson, Richard E.; and Hoops, John F., to Merrell Dow Pharmaceuticals Inc. Medroxalol intermediates. 4,701,541, 10-20-87, Cl. 549-440.000.
- Donaldson, Robert D.: *See—*
  - Tuss, John J.; and Donaldson, Robert D., 4,682,418, Cl. 33-1.00M.
- Donaldson, Robert L.: *See—*
  - Greanias, Evon C.; Guarnieri, C. Richard; Seeland, John J., Jr.; Verrier, Guy F.; and Donaldson, Robert L., 4,686,332, Cl. 178-19.000.
- Donaldson, Thomas W. Down-well pump device. 4,636,145, 1-13-87, Cl. 417-199.00R.
- Donaldson, Thomas W.: *See—*
  - Jackson, Owen E.; and Donaldson, Thomas W., 4,712,667, Cl. 198-643.000.
- Donaldson, Timothy P.; and Menown, Hugh, to English Electric Valve Company Limited. Thyratron interrupters. 4,639,643, 1-27-87, Cl. 315-344.000.
- Donaldson, William F.: *See—*
  - Tang, Chung L.; and Donaldson, William F., 4,639,923, Cl. 372-21.000.
- Donat Flamand Inc.: *See—*
  - Giguere, Jean-Paul, 4,633,616, Cl. 49-425.000.
  - Giguere, Jean-Paul, 4,674,246, Cl. 52-207.000.
  - Giguere, Jean-Paul, 4,702,050, Cl. 52-202.000.
- Donatello, Mike A.; Moritz, Scott N.; and Shuman, Guy L. Drinking apparatus. 4,699,318, 10-13-87, Cl. 239-33.000.
- Donath, Sabine; and Holz, Peter, to Messer Griesheim GmbH. Device and method for the surface treatment of cold-embrittled parts. 4,637,174, 1-20-87, Cl. 51-425.000.
- Donati, Gianni: *See—*
  - Cortesi, Paolo; Donati, Gianni; and Saggese, Giuseppe, 4,687,643, Cl. 422-150.000.
- Donati, Wanda C.: *See—*
  - Bartz, William R.; and Donati, Wanda C., 4,699,342, Cl. 248-150.000.
- Donawick, William J.; and Teichman, Betty L. Apparatus for the gravitational administration of fluids and drugs to large animals. 4,699,613, 10-13-87, Cl. 604-80.000.
- Doncer, Alex J.: *See—*
  - White, Harold R.; and Doncer, Alex J., 4,681,682, Cl. 210-221.200.
- Dondi, Giuliano, to Pietro Dondi & Figli S.r.l. Trench-digger implement carried by a laterally extending boom and drive therefor. 4,682,427, 7-28-87, Cl. 37-91.000.
- Donecker, S. Bruce; Stewart, Ronald D.; and Frederick, Wayne L., to Hewlett-Packard Company. Vector network analyzer with integral processor. 4,641,085, 2-3-87, Cl. 324-77.00R.

- Donecker, S. Bruce: *See—*
  - Sharrit, David D.; Neering, Michael J.; Donecker, S. Bruce; Roos, Mark D.; Cannon, Wayne C.; and Barr, John T., IV, 4,661,767, Cl. 324-57.00R.
- Donegan, Thomas E.; and Leary, Timothy G., to BASF Corporation. Copper phthalocyanine pigments. 4,709,021, 11-24-87, Cl. 540-141.000.
- Donelan, Lynn E.: *See—*
  - Meisner, John W.; and Donelan, Lynn E., 4,644,210, Cl. 310-211.000.
- Donelon, John J.; Tomkiewicz, Yaffa; Wassick, Thomas A.; and Yeh, James T., to International Business Machines Corporation. Selective metal etching in metal/polymer structures. 4,684,437, 8-4-87, Cl. 156-643.000.
- Donenfeld, Roger F. Endotracheal tube and method of intubation. 4,685,457, 8-11-87, Cl. 128-207.140.
- Doner, John P.; Horodysky, Andrew G.; and Keller, John A., Jr., to Mobil Oil Corporation. Grease compositions containing borated catechol compounds and hydroxy-containing soap thickeners. 4,655,948, 4-7-87, Cl. 252-49.600.
- Donets, Oleg V.: *See—*
  - Feofanov, Vitaly A.; Pilat, Boris V.; Zhdanovich, Larisa P.; Romanenko, Anatoly G.; Lukhanin, Boris S.; Donets, Oleg V.; and Korobochkin, Valery P., 4,655,895, Cl. 204-213.000.
- Donetti, Arturo: *See—*
  - Bietti, Giuseppe; Cereda, Enzo; Donetti, Arturo; del Soldato, Piero; Giachetti, Antonio; and Micheletti, Rosamaria, 4,645,841, Cl. 548-128.000.
  - Bietti, Giuseppe; Cereda, Enzo; Donetti, Arturo; Giachetti, Antonio; and Pagani, Ferdinando, 4,649,150, Cl. 514-392.000.
  - Cereda, Enzo; Donetti, Arturo; Giachetti, Antonio; and del Soldato, Piero, 4,643,993, Cl. 514-93.000.
  - Cereda, Enzo; Bietti, Giuseppe; Donetti, Arturo; del Soldato, Piero; Giachetti, Antonio; and Pagani, Ferdinando, 4,666,932, Cl. 514-400.000.
  - Cereda, Enzo; Bietti, Giuseppe; Donetti, Arturo; del Soldato, Piero; Giachetti, Antonio; and Pagani, Ferdinando, 4,699,915, Cl. 514-357.000.
- Donfab Investments, Inc.: *See—*
  - Takeuchi, Seiji; and Anger, Byron H., 4,641,760, Cl. 220-1.00B.
  - Takeuchi, Seiji; and Anger, Byron H., 4,684,026, Cl. 206-522.000.
- Dong, Michael W.; Yarbro, Stanley K.; and Vandermark, Frank, to Perkin-Elmer Corporation, The. Apparatus for periodically monitoring the composition of a plurality of samples. 4,678,639, 7-7-87, Cl. 422-81.000.
- Dong, Seung G. Manipulation holder for chopsticks. 4,659,128, 4-21-87, Cl. 294-99.200.
- Dong, Yen O., to Ford Motor Company. Nonrotatable clamp for automotive steering linkage. 4,657,424, 4-14-87, Cl. 403-46.000.
- Donhauser, Friedrich; Schoengen, Anton; Schroeder, Johann H.; and Porschen, Jorg, to Amberger Kaolinwerke GmbH; and Dynamit Nobel Aktiengesellschaft. Multistage arrangement for countercurrent separation and methods of operating same. 4,707,274, 11-17-87, Cl. 210-774.000.
- Donich, Thomas G.: *See—*
  - Smith, Dale K.; Donich, Thomas G.; Dickerson, Bobby V.; and Leader, Raymond E., 4,685,149, Cl. 455-56.000.
- Donig, Gerhard: *See—*
  - Dallhammer, Richard; Donig, Gerhard; Gaul, Hartmut; Schmidt, Walter; Neulinger, Franz; and Schummer, Helmut, 4,670,829, Cl. 363-57.000.
- Donkerbrook, Deborah: *See—*
  - Johnson, Randall, 4,692,846, Cl. 362-104.000.
- Donlee Technologies Inc.: *See—*
  - Korenberg, Jacob, 4,688,521, Cl. 122-4.00D.
- Donley, Nick J. Clamp. 4,660,870, 4-28-87, Cl. 285-419.000.
- Donn, Anthony; and Koester, Charles J. Intraocular-external lens combination system and method of using same. 4,710,197, 12-1-87, Cl. 623-6.000.
- Donn Incorporated: *See—*
  - Cline, Steven D., 4,671,832, Cl. 156-73.100.
  - Goodworth, John P., II, 4,640,064, Cl. 52-145.000.
  - LaLonde, Paul D., 4,660,348, Cl. 52-762.000.
  - Menchetti, Robert J., 4,642,418, Cl. 174-48.000.
  - Mieyal, David F.; Shirey, Richard; and Worley, Robert F., 4,648,230, Cl. 52-667.000.
  - Mieyal, David F., 4,689,870, Cl. 29-469.500.
  - Mieyal, David F.; and Koski, Gerald L., 4,696,142, Cl. 52-762.000.
  - Shirey, Richard; and Sauer, Gale E., 4,679,375, Cl. 52-777.000.
  - Slapsys, Michael, 4,646,506, Cl. 52-772.000.
- Donn, Vittorio; and Cogno, Pietro, to RIV-SKF Officine di Villar Perosa S.p.A. Steering box for a motor vehicle. 4,651,585, 3-24-87, Cl. 74-422.000.
- Donnelly Corporation: *See—*
  - Bitter, Lowell E., 4,650,557, Cl. 204-192.120.
  - Bitter, Lowell E., 4,655,811, Cl. 65-60.510.
  - Lynam, Niall R.; and Seah, Kiok K., 4,712,879, Cl. 350-357.000.
  - Murphy, Michael D., 4,645,970, Cl. 313-509.000.
  - Nieboer, Keith A.; and Tucker, Herbert D., 4,700,525, Cl. 52-698.000.
  - Skogler, Brian L.; Nyhof, Eldon J.; and Katsma, William L., 4,646,210, Cl. 362-142.000.
  - Weirick, Richard A., 4,673,797, Cl. 219-203.000.
- Donnelly, James A.: *See—*
  - Carini, Richard P.; Donnelly, James A.; Ellis, Joseph J., Jr.; and Lanzoni, Thomas P., 4,688,033, Cl. 340-800.000.
- Donnelly, James E. Work release stop for a vise. 4,635,912, 1-13-87, Cl. 269-157.000.
- Donnelly, Kevin S.; and Donnelly, Ralph H. Wallboard jack. 4,712,771, 12-15-87, Cl. 254-131.000.
- Donnelly, Ralph H.: *See—*
  - Donnelly, Kevin S.; and Donnelly, Ralph H., 4,712,771, Cl. 254-131.000.
- Donnelly, Richard G.: *See—*
  - Cheng, Wu-Cheng; and Donnelly, Richard G., 4,705,767, Cl. 502-167.000.
- Donnelly, Vincent M.; and Karlicek, Robert F., Jr., to AT&T Bell Laboratories. Deposition of III-V semiconductor materials. 4,645,687, 2-24-87, Cl. 427-53.100.
- Donner, Bernd: *See—*
  - Rathmachers, Peter; and Donner, Bernd, 4,656,315, Cl. 194-74.00R.
- Donner, Hans-Gunter: *See—*
  - Wernicke, Ubbo; Meckl, Heinz; Donner, Hans-Gunter; and Frosch, Jurgen, 4,680,123, Cl. 210-683.000.
- Donner, Paul C.: *See—*
  - Stephenson, Jim D.; and Donner, Paul C., 4,676,387, Cl. 215-11.00R.
- Donnerdal, Jan O.: *See—*
  - Andreasson, Bo C.; Donnerdal, Jan O.; and Aronsson, Tore A., 4,633,832, Cl. 123-335.000.
  - Andreasson, Bo C.; Donnerdal, Jan O.; and Strom, Hans L., 4,656,985, Cl. 123-335.000.
- Donnerhack, Andreas; Jankowski, Detlef; Pfeil-Schneider, Kurt; Thoma, Klemens; and Volker, Wolfgang, to Messer Griesheim GmbH. Insulated hose of synthetic material. 4,688,603, 8-25-87, Cl. 138-103.000.
- Donnini, Giovanni; and Fantini, Giuliano, to Bakuer Italiana S.p.A. Apparatus to make the crosswise movement of the toolholder slide mounted on the spindle of a tool machine automatic during the cutting motion. 4,676,704, 6-30-87, Cl. 409-208.000.
- Donofrio, John J., to Amchem Products, Inc. Composition and process for treating steel. 4,643,778, 2-17-87, Cl. 148-6.15R.
- Donoghue, Daniel: *See—*
  - Crossley, Ian; Donoghue, Daniel; Mittleman, Steven; and Nash, Seth, 4,637,068, Cl. 455-327.000.
  - Crossley, Ian; Donoghue, Daniel; Goldwasser, Robert; Miley, John; and Spooner, Frank, 4,644,296, Cl. 331-1.00R.
- Donoghue, William J., to Motorola, Inc. Orientation of reference cells in a memory. 4,636,979, 1-13-87, Cl. 365-104.000.
- Donoghue, William J., to Advanced Micro Devices, Inc. High gain sense amplifier for small current differential. 4,670,675, 6-2-87, Cl. 307-530.000.
- Donohie, Paul J.; Gray, Gary L.; and Capuano, Frank G., to Rendoll Paper Company. Carton and blank for packaging ice cream or the like. 4,679,694, 7-14-87, Cl. 206-611.000.
- Donohoe, David G. Tear resistant drum head assembly. 4,706,540, 11-17-87, Cl. 84-414.000.
- Donohue, James M., to Xerox Corporation. Selective development control for electrostatic reproduction machines. 4,641,952, 2-10-87, Cl. 355-14.00R.
- Donohue, James R. Weighted jump rope handle. 4,647,037, 3-3-87, Cl. 272-75.000.
- Donohue, John, to Becton, Dickinson and Company. High energy radiation stabilization of semi-crystalline polymers. 4,710,524, 12-1-87, Cl. 522-75.000.
- Donoian, Gary S.: *See—*
  - Mehta, Pradip S.; Valsamis, Lefteris N.; and Donoian, Gary S., 4,711,581, Cl. 366-99.000.
- Donomoto, Tadashi; Tatematsu, Yoshiaki; Tanaka, Atsuo; and Kubo, Masahiro, to Toyota Jidosha Kabushiki Kaisha. Method for alloying substances. 4,708,847, 11-24-87, Cl. 420-129.000.
- Donovan, Dennis; McDonnell, Michael L.; Weigel, Gerald C.; and Long, John E., to Archer Daniels Midland Company. Animal feed blocks containing dietary supplements. 4,708,877, 11-24-87, Cl. 426-69.000.
- Donovan, James G.; and Wittemen, Charles O., to Avco Corporation. Positioning device. 4,633,920, 1-6-87, Cl. 140-105.000.
- Donovan, James G.; and Skelton, John, to Albany International Corp. Thermal insulator comprised of split and opened fibers and method for making same. 4,681,789, 7-21-87, Cl. 428-93.000.
- Donovan, John A., to Don Marketing Management Limited. Label. 4,634,149, 1-6-87, Cl. 283-102.000.
- Donovan, John S. Non biased push-pull amplifiers. 4,688,000, 8-18-87, Cl. 330-269.000.
- Donovan, Joseph C.: *See—*
  - Fischer, Herbert; Stritzke, Karl H.; Morlock, Roland; Jones, Thomas C.; and Donovan, Joseph C., 4,636,265, Cl. 148-6.15R.
- Donovan, Joseph F.; Stout, Gregg W.; and Schmuck, Phillip W., to Baker Oil Tools, Inc. Boosterless perforating gun and method of assembly. 4,635,734, 1-13-87, Cl. 175-4.600.
- Donovan, Joseph F.: *See—*
  - Salerni, John V.; and Donovan, Joseph F., 4,667,735, Cl. 166-55.100.
  - Salerni, John V.; and Donovan, Joseph F., 4,708,200, Cl. 166-55.100.
- Donovan, Kevin M.: *See—*
  - Balloni, Ricardo; Donovan, Kevin M.; and Keung, Jay K., 4,659,612, Cl. 428-213.000.
  - Keung, Jay K.; Donovan, Kevin M.; and Balloni, Ricardo, 4,692,379, Cl. 428-349.000.

Donovan, Kyle P., to Milsco Manufacturing Company. Height adjustment mechanism for chair backrest. 4,639,039, 1-27-87, Cl. 297-353.000.

Donovan, Robert D.: *See—*
- Rickmers, Clifford P.; Donovan, Robert D.; and Brickner, Louis C., Jr., 4,711,032, Cl. 30-372.000.

Donovan, Robert G. Binder and folder for use therewith. 4,659,109, 4-21-87, Cl. 281-46.000.

Donovan, William J., to Honeywell Inc. Low offset MOSFET transistor switch control. 4,672,246, 6-9-87, Cl. 307-571.000.

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- Kausek, James H.; Klugman, Alfred; and Donovan, William J., 4,633,867, Cl. 128-80.00C.

Donsco Incorporated: *See—*
- Swengel, Robert C., Sr., 4,681,314, Cl. 272-52.000.
- Swengel, Robert C., Sr., 4,693,466, Cl. 272-52.000.

Donson, William A.; Ellerson, James V.; Hammer, Richard B.; Lafer, William; and Snyder, Keith A., to International Business Machines Corporation. Providing circuit lines on a substrate. 4,690,833, 9-1-87, Cl. 427-96.000.

Donuma, Kenichi: *See—*
- Takezawa, Hatsuo; Donuma, Kenichi; Katagiri, Shuhei; and Sakura, Shigeyuki, 4,695,858, Cl. 357-19.000.

Donzelli, Giampiero, to Telettra-Telefonia Elettronica e Radio S.p.A. Process for grounding flat devices and integrated circuits. 4,700,467, 10-20-87, Cl. 437-209.000.

Doogood, Peter N.: *See—*
- Evans, John M.; Atkins, Philip B.; and Doogood, Peter N., 4,699,004, Cl. 73-384.000.

Dooley, Edward J.; and Bredeweg, Robert A., to Batts, Inc. Label dispenser. 4,660,739, 4-28-87, Cl. 221-70.000.

Dooley, James L.: *See—*
- Carter, George A., III; and Dooley, James L., 4,695,058, Cl. 273-311.000.

Dooley, Myron L.: *See—*
- Kasmark, James W., Jr.; Dooley, Myron L.; and Jones, Arthur H., 4,699,681, Cl. 156-264.000.

Dooley, Patrick D. Gaff for landing fish. 4,691,465, 9-8-87, Cl. 43-5.000.

Dooley, Thomas: *See—*
- Rowe, William; and Dooley, Thomas, 4,640,884, Cl. 430-165.000.

Doolittle, B. Kingsley: *See—*
- Blamire, Michael F.; Briscoe, Peter F.; McLeod, Douglas D.; Doolittle, B. Kingsley; and Roach, Michael J., 4,673,900, Cl. 333-167.000.
- Blamire, Michael F.; Briscoe, Peter F.; Bronson, A. Grant; and Doolittle, B. Kingsley, 4,700,156, Cl. 333-182.000.

Doom, Lewis W. G.; Doom, Lewis W. G., Jr.; and Urban, Robert W. Method of mixing or drying particulate material. 4,650,343, 3-17-87, Cl. 366-279.000.

Doom, Lewis W. G., Jr.: *See—*
- Doom, Lewis W. G.; Doom, Lewis W. G., Jr.; and Urban, Robert W., 4,650,343, Cl. 366-279.000.

Door Guard, Inc.: *See—*
- Arbic, Harold J.; Love, Philip F.; and Kramer, Donald, 4,676,536, Cl. 292-339.000.

Doorenbos, Daryl E. Device for assisting in putting on elastic hosiery. 4,637,532, 1-20-87, Cl. 223-111.000.

Doorenbos, Harold E.; and Jones, Giffin D., to Dow Chemical Company, The. Monoadduct monomers and polyadduct polymers from divinyl ketones. 4,672,136, 6-9-87, Cl. 558-61.000.

Doornbos, Richard S., to Dow Corning Corporation. Purification of chlorosilanes. 4,713,230, 12-15-87, Cl. 423-341.000.

Doornbos, Tamme; van der Heijden, Arnoldus; van der Kamp, Johannes W.; and de Rooij, Johannes F., to Lever Brothers Company. Butter-like concentrate. 4,701,335, 10-20-87, Cl. 426-533.000.

Doornink, John R.: *See—*
- Irwin, Jere F.; Doornink, John R.; and Roberts, Clive J., 4,687,144, Cl. 241-49.000.

oornveld, Herman E., to U.S. Philips Corporation. Method and apparatus for applying a layer of photosensitive material to a semiconductor wafer. 4,668,334, 5-26-87, Cl. 156-640.000.

opheide, Dietrich, to Bundesrepublik Deutschland. Laser-doppler-anemometer. 4,669,876, 6-2-87, Cl. 356-285.000.

opp, Kip H. Bookmark/writing instrument combination. 4,706,995, 11-17-87, Cl. 281-42.000.

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- Oltman, John E.; Dopp, Robert B.; and Carpenter, Denis D., 4,649,090, Cl. 429-29.000.

ppelfeld, Ille-Stephanie: *See—*
- Hilboll, Gerd; Prop, Gerrit; Borbe, Harald; Lohr, Josef P.; and Doppelfeld, Ille-Stephanie, 4,643,998, Cl. 514-252.000.
- Hilboll, Gerd; Doppelfeld, Ille-Stephanie; and Prop, Gerrit, 4,699,914, Cl. 514-341.000.

pson, Gaylord W., to Magma Copper Company. Grinding mill liner late support. 4,664,324, 5-12-87, Cl. 241-182.000.

rame, Elizabeth S.; and Dorame, Gilbert A., to Dorame, Elizabeth S. ortable carport. 4,655,236, 4-7-87, Cl. 135-88.000.

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- Dorame, Elizabeth S.; and Dorame, Gilbert A., 4,655,236, Cl. 135-88.000.

Doran Brothers Inc.: *See—*
- Butterly, Edward R., Jr.; and Stoppel, Doyle E., 4,634,333, Cl. 414-331.000.

Doran, Denny F., to V. Valhalla Corp. Vaginal conditioning for sexual activity. 4,670,256, 6-2-87, Cl. 424-93.000.

Dorband, Glen C.; Liland, Alfred; Menezes, Edgar; Steinheuser, Peter; Popadiuk, Nicholas M.; and Failla, Stephen J., to Ethicon, Inc. Surgical fastening device and method for manufacture. 4,671,280, 6-9-87, Cl. 128-334.00C.

Dorbeck, Leo R., to Canadian Sun Systems Ltd. Control of hydrogen permeation especially in solar collectors. 4,708,124, 11-24-87, Cl. 126-438.000.

Dorda, Gerhard: *See—*
- Schmitt-Landsiedel, Doris; and Dorda, Gerhard, 4,661,831, Cl. 357-46.000.
- Schmitt-Landsiedel, Doris; and Dorda, Gerhard, 4,680,481, Cl. 307-279.000.

Dore, Bernard: *See—*
- Casier, Yves; Cassagne, Philippe; Dore, Bernard; and Gicquel, Sylvain, 4,638,943, Cl. 237-7.000.

Dore, Bernard-Frederic; and Gastowt, Daniel J., to Single Buoy Moorings Inc. Mooring device. 4,660,494, 4-28-87, Cl. 114-230.000.

Dore, Jacky; and Pedrazzi, Reinhard, to Sandoz Ltd. Disazo and polyazo compounds containing at least two cationic groups in metal-free or 1:1 or 1:2 metal complex form. 4,670,546, 6-2-87, Cl. 534-612.000.

Dore, James E.: *See—*
- Brockmeyer, Jerry W.; Aubrey, Leonard S.; Dore, James E.; and Soble, Clifford N., 4,708,326, Cl. 266-159.000.

Doree, Richard H.; and Ugro, Josef V., Jr., to Minnesota Mining and Manufacturing Company. Article containing microencapsulated materials. 4,654,256, 3-31-87, Cl. 428-304.400.

Doremus, Bernard, to Schlumberger Technology Corporation. Safety valve in particular for closing an oil well. 4,651,828, 3-24-87, Cl. 166-319.000.

Doremus, Bernard; and Meek, Dale E., to Schlumberger Technology Corporation. Subsea master valve for use in well testing. 4,658,904, 4-21-87, Cl. 166-336.000.

Dorer, Casper J., Jr.; and Tupa, Robert C., to Lubrizol Corporation, The. Manganese and copper containing compositions. 4,664,677, 5-12-87, Cl. 44-68.000.

Dorer, Casper J., Jr., to Lubrizol Corporation, The. Fuel treatment compositions. 4,666,461, 5-19-87, Cl. 44-63.000.

Dorer, Casper J., Jr.: *See—*
- Johnston, Thomas E.; and Dorer, Casper J., Jr., 4,659,338, Cl. 44-68.000.
- Johnston, Thomas E.; and Dorer, Casper J., Jr., 4,690,687, Cl. 44-67.000.

Dorfender Products Inc.: *See—*
- Warren, Monty, 4,690,446, Cl. 293-128.000.

Dorffler, Michael K., to Damon Corporation. Nose weight for toy aircraft. 4,642,062, 2-10-87, Cl. 446-68.000.

Dorfin Paper Products (Quebec) Limited: *See—*
- Mathieu, Andre, 4,693,367, Cl. 206-289.000.

Dorgan, Roderick J.; and Elliott, Richard L., to Beecham Group p.l.c. Benzazepines, and their use as anthelminthics. 4,661,489, 4-28-87, Cl. 514-211.000.

Dorgeloh, K. Heinrich W.: *See—*
- Ries, Joachim; and Dorgeloh, K. Heinrich W., 4,710,809, Cl. 358-109.000.

Dorhmann, Wolfgang: *See—*
- Lohr, Karl-Heinz; Kohberg, Ewald; Kuchheuser, Werner; and Dorhmann, Wolfgang, 4,641,872, Cl. 293-133.000.

Doria, Gianfederico; Passarotti, Carlo; and Buttinoni, Ada, to Farmitalia Carlo Erba, S.p.A. Condensed benzopyrone derivatives. 4,665,084, 5-12-87, Cl. 514-382.000.

Doria, Gianfederico; Romeo, Ciriaco; and Corno, Maria L., to Farmitalia Carlo Erba, S.p.A. 2H-benzofuran-3-one-derivatives and process for their preparation. 4,670,457, 6-2-87, Cl. 514-470.000.

Doriath, Gerard; Hartemann, Pierre; and Jacobelli, Alain, to Thomson-CSF. Measuring system and measuring cell for making magnetic field measurements. 4,697,145, 9-29-87, Cl. 324-244.000.

Doric Electronic Laboratories Ltd.: *See—*
- Pelonis, Kosta, 4,713,721, Cl. 361-100.000.

Dorich, Michael J.: *See—*
- Lee, Wei-long W.; Dorich, Michael J.; and Eerkens, Jeff W., 4,649,545, Cl. 372-61.000.

Dorin, Glenn: *See—*
- Ben-Bassat, Arie; Dorin, Glenn; Bauer, Keith; and Lin, Leo, 4,656,132, Cl. 435-68.000.

Dorina Nahmaschinen GmbH: *See—*
- Kefer, Joseph; and Ruf, Gerhard, 4,700,645, Cl. 112-259.000.
- Meier, Willi, 4,691,654, Cl. 112-303.000.

Doring, Joachim: *See—*
- Eichenauer, Herbert; Doring, Joachim; Ott, Karl-Heinz; and Bottenbruch, Ludwig, 4,652,614, Cl. 525-71.000.
- Eichenauer, Herbert; Zabrocki, Karl; Doring, Joachim; Ott, Karl-Heinz; and Bottenbruch, Ludwig, 4,668,737, Cl. 525-73.000.

Dorinski, Dale: *See—*
- Freyman, Bruce J.; Dorinski, Dale; and Shurboff, John, 4,700,276, Cl. 361-403.000.
- Freyman, Bruce J.; Dorinski, Dale; and Shurboff, John, 4,700,473, Cl. 29-846.000.

Doris Engineering: *See—*
- Danguy des Deserts, Loic M. J.; Michel, Dominique; and Sedillot, Francois G., 4,684,292, Cl. 405-202.000.

- Dorland, Mark A.: *See—*
  - Mattes, Michael F.; and Dorland, Mark A., 4,712,648, Cl. 184-6.400.
- Dorleans, Guy, to Cibie Projecteurs. Headlight and processes for making same. 4,675,792, 6-23-87, Cl. 362-61.000.
- Dorler, Jack A.: *See—*
  - Banker, Dennis C.; Dorler, Jack A.; and Hryckowian, John N., 4,709,166, Cl. 307-441.000.
- Dorling, Rolf: *See—*
  - Premel, Ulrich; Dorling, Rolf; and Schultze, Manfred, 4,694,782, Cl. 122-7.00R.
- Dorma-Baubeschlag GmbH & Co. KG: *See—*
  - Tillman, Horst; and Sieg, Giselher, 4,660,250, Cl. 16-58.000.
  - Tillmann, Horst; and Sieg, Giselher, 4,658,468, Cl. 16-53.000.
- Dorman, Arthur; Glave, William K.; and Birnbach, Curtis, to Digital Imaging Company of America, Inc. Solid-state X-ray receptor and method of making same. 4,700,076, 10-13-87, Cl. 250-370.000.
- Dorman, Frank D., to University of Minnesota, Regents of the. Check valve catheter. 4,657,536, 4-14-87, Cl. 604-247.000.
- Dorman, Frank D.; and Wigness, Bruce D., to University of Minnesota, Regents of the. Metabolite sensor including a chemical concentration sensitive flow controller for a drug delivery system. 4,705,503, 11-10-87, Cl. 604-50.000.
- Dorman, Frank D.: *See—*
  - Thompson, Roby C.; Erdman, Arthur G.; and Dorman, Frank D., 4,644,943, Cl. 128-92.0YY.
- Dorman, Linneaus C.; and Meyers, Paul A., to Dow Chemical Company, The. Process for the preparation of hard tissue prosthetics. 4,634,720, 1-6-87, Cl. 521-63.000.
- Dorman, Linneaus C.; and Meyers, Paul A., to Dow Chemical Company, The. Composites of unsintered calcium phosphates and synthetic biodegradable polymers useful as hard tissue prosthetics. 4,636,526, 1-13-87, Cl. 521-61.000.
- Dorman, Linneaus C.; and Meyers, Paul A., to Dow Chemical Company, The. Process for the preparation of hard tissue prosthetics. 4,661,536, 4-28-87, Cl. 523-113.000.
- Dorman, Linneaus C.; Meyer, Victor E.; and Wu, Marinda L., to Dow Chemical Company, The. Gas separation membranes from polymers containing a hydrocarbon backbone and pendant (hydrocarbylamido)alkyl ester moieties. 4,695,295, 9-22-87, Cl. 55-16.000.
- Dorman, Linneaus C.; and Meyers, Paul A., to Dow Chemical Company, The. Composites of unsintered calcium phosphates and synthetic biodegradable polymers useful as hard tissue prosthetics. 4,698,375, 10-6-87, Cl. 523-115.000.
- Dorman Products, Inc.: *See—*
  - Drake, Robert C., 4,698,459, Cl. 174-138.00F.
- Dorman, Richard A.; Kissinger, Curtis D.; Hoogenboom, Leo; Hull-Allen, Gregory; and Fallek, Samuel, to Mechanical Technology Incorporated. Precision optical displacement measuring instrument using servo controlled fiber optic sensor. 4,674,882, 6-23-87, Cl. 356-373.000.
- Dorman, Richard A.; and Johnson, Robert E., to Mechanical Technology Incorporated. High speed counter for thin objects. 4,694,474, 9-15-87, Cl. 377-6.000.
- Dorman, William C.: *See—*
  - Fremont, Henry A.; and Dorman, William C., 4,671,874, Cl. 210-243.000.
- Dorman, William D., to Fuller Company. Annular shaft kiln. 4,668,184, 5-26-87, Cl. 432-99.000.
- Dormandy, Ray H., Jr.: *See—*
  - Bell, Julie D.; and Dormandy, Ray H., Jr., 4,662,883, Cl. 623-8.000.
  - Smith, Gregory M.; Coe, Frederick L.; and Dormandy, Ray H., Jr., 4,666,447, Cl. 623-8.000.
- Dorme, Nicole A. M.: *See—*
  - Imbert, Thierry F.; Dorme, Nicole A. M.; and Langlois, Michel, 4,657,911, Cl. 514-272.000.
- Dormehl, Erich, to Heyligenstaedt & Comp. Werkzeugmaschinenfabrik GmbH. Tool changer. 4,713,875, 12-22-87, Cl. 29-568.000.
- Dorn, Alfred; Schramm, Peter; Schuhmann, Siegfried; and Zingher, Oded, to M.A.N.-Roland Druckmaschinen Aktiengesellschaft. Apparatus for determining and evaluating color measurement strips on a printed sheet. 4,648,048, 3-3-87, Cl. 364-526.000.
- Dorn, Alfred, to M.A.N.-Roland Druckmaschinen Aktiengesellschaft. Control device using light-emitting diodes for both manual input and display of data. 4,692,739, 9-8-87, Cl. 340-365.00P.
- Dorn, Conrad P.: *See—*
  - Finke, Paul E.; Doherty, James B.; Zimmerman, Morris; Ashe, Bonnie M.; and Dorn, Conrad P., 4,711,886, Cl. 514-195.000.
- Dorn, Franz; Pfiffner, Albert, and Zehnder, Beat, to Hoffmann-La Roche Inc. Certain α-benzyl-3-pyridylmethanols, N-oxides thereof and their fungicidal use. 4,678,790, 7-7-87, Cl. 514-277.000.
- Dorn, Reimund; Baumgartner, Armin; and Gutu-Nelle, Anca, to International Standard Electric Corporation. Process of fabricating an elongated glass body particularly a preform for optical waveguides. 4,661,136, 4-28-87, Cl. 65-18.100.
- Dornbracht, Helmut; and Grasse, Klaus-Peter, to Aloys F. Dornbracht GmbH & Co. Connector assembly for a water-dispensing fixture. 4,678,207, 7-7-87, Cl. 285-39.000.
- Dornbusch, Arthur H.; and Schanzle, Roger E., to Procter & Gamble Company, The. Tray-type shipping and display container. 4,641,746, 2-10-87, Cl. 206-44.00R.
- Dorner, Frank, to Kunz AG. Method and apparatus for thermal printing of plastic cards. 4,650,350, 3-17-87, Cl. 400-120.000.
- Dorner, Friedrich: *See—*
  - Eibl, Johann; Schwarz, Otto; Elsinger, Fritz; Wober, Gunter; Philapitsch, Anton; Linnau, Yendra; Dorner, Friedrich; Trambauer, Karl; and Frechinger, Wolfgang, 4,640,834, Cl. 424-94.000.
- Dorner, Jurgen: *See—*
  - Ruthrof, Klaus; Korner, Rudolf; and Dorner, Jurgen, 4,642,417, Cl. 174-36.000.
- Dorner, Karl H.: *See—*
  - Asten, Wolfgang V.; Dorner, Karl H.; Scheel, Hartmut; and Wurstle, Volker, 4,715,903, Cl. 148-11.50A.
- Dorner, Leonhard: *See—*
  - Kicherer, Robert; Schreder, Felix; and Dorner, Leonhard, 4,713,527, Cl. 219-464.000.
- Dorner Mfg. Corp.: *See—*
  - Dorner, Wolfgang C., 4,684,308, Cl. 414-96.000.
  - Dorner, Wolfgang C.; Hosch, Michael A.; and Wedell, Mark C., 4,712,355, Cl. 53-443.000.
  - Joseph, Louis H., 4,685,556, Cl. 198-787.000.
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  - Noll, Wilfried; Ehmann, Konrad; Stehle, Hans P.; Dorner, Wolfgang; and Dietzsch, Gunter, 4,635,364, Cl. 30-381.000.
- Dorner, Wolfgang C., to Dorner Mfg. Corp. Stacker assembly for a conveyor system. 4,684,308, 8-4-87, Cl. 414-96.000.
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  - Dietrich, Albert; Katz, Peter; and Vincken, Josef, 4,674,075, Cl. 367-173.000.
  - Dietrich, Albert, 4,690,060, Cl. 102-352.000.
  - Eibert, Max; Lux, Peter; and Metzdorf, Walter, 4,701,047, Cl. 356-1.000.
  - Gunter, Heinz; Kriechbaum, Gerhard; Krojer, Hubert; Matecki, Rudolf; and Spintzyk, Johannes, 4,638,962, Cl. 244-203.000.
  - Metzdorff, Walter; Lux, Peter; and Eibert, Max, 4,708,473, Cl. 356-5.000.
  - Zankl, Wolfgang, 4,708,778, Cl. 204-25.000.
  - Zimmer, Herbert, 4,700,911, Cl. 244-35.00R.
- Dornier, Peter; and Krumm, Valentin, to Lindauer Dornier Gesellschaft mbH. Apparatus for presenting weft threads to the clamps of gripper rods in shuttleless looms. 4,655,263, 4-7-87, Cl. 139-446.000.
- Dornier System GmbH: *See—*
  - Chaussy, Christian; Hepp, Wolfgang; van Rijn, Dick; and Forssmann, Bernd, 4,705,026, Cl. 128-24.00A.
  - Forssmann, Bernd; Hepp, Wolfgang; Ackern, Klaus; and Chaussy, Christian, 4,685,461, Cl. 128-328.000.
  - Hepp, Wolfgang; Forssmann, Bernd; Brendel, Walter; and Chaussy, Christian, 4,655,205, Cl. 128-132.00R.
  - Hepp, Wolfgang; Heine, Gerold; Wess, Othmar; and Marlinghaus, Ernst, 4,662,375, Cl. 128-328.000.
  - Hepp, Wolfgang; Restle, Karl-Heinz; van Rijn, Dick; and Wess, Othmar, 4,669,483, Cl. 128-660.000.
  - Kock, Wulf, 4,645,622, Cl. 252-521.000.
  - Obkircher, Bernt, 4,681,599, Cl. 48-92.000.
  - Scherber, Werner; and Schroeder, Hans W., 4,708,419, Cl. 350-1.100.
  - Seuster, Walter, 4,650,361, Cl. 403-24.000.
- Dornow, Karl-Dietrich. Method and apparatus for controlling peeling machines for peeling fruit or vegetables. 4,710,389, 12-1-87, Cl. 426-231.000.
- Dornseif, E. Ronald: *See—*
  - McInerney, Edward J.; Dornseif, E. Ronald; and Zetterquist, Norman E., 4,690,746, Cl. 204-192.320.
- Doro, Guilio: *See—*
  - Roederer, Antoine G.; Doro, Guilio; and Lisi, Marco, 4,710,776, Cl. 343-778.000.
- Dorombosy, Bela: *See—*
  - Egeto, Csaba; Szalay, Zoltan; Dorombosy, Bela; and Krauz, Karoly, 4,668,110, Cl. 384-536.000.
- Doron, Benjamin: *See—*
  - Marikovsky, Moshe; and Doron, Benjamin, 4,652,378, Cl. 210-716.000.
- Doros, Jacek P.: *See—*
  - Lewandowski, Raymond F.; Doros, Jacek P.; and Redfield, William H., 4,673,778, Cl. 200-67.00B.
- Doroszkowski, Andrew; and Skinner, Maurice W., to Imperial Chemical Industries PLC. Process of coating a heated surface. 4,690,837, 9-1-87, Cl. 427-314.000.
- Dorow, Rainer: *See—*
  - Aufdembrinke, Bernd; Dorow, Rainer; Horowski, Reinhard; Suchy, Irmgard; Schroeder, Gertrud; Wachtel, Helmut; Kehr, Wolfgang; and Stock, Gunter, 4,711,891, Cl. 514-313.000.
- Dorr, John A., to Xecutek Corporation. Weatherproofed ultrasonic transducer assembly and systems incorporating same. 4,654,834, 3-31-87, Cl. 367-96.000.
- Dorr, John A., to Xecutek Corporation. Ultrasonic apparatus for determining the amount of liquid in a container of known volume. 4,715,226, 12-29-87, Cl. 73-290.00V.
- Dorr, Konrad, to Dr. Ing. h.c.F. Porsche Aktiengesellschaft. Optoelectronic measuring device. 4,638,155, 1-20-87, Cl. 250-231.0SE.
- Dorr-Oliver Incorporated: *See—*
  - Balembois, Claude, 4,705,462, Cl. 417-395.000.
  - Culkin, Joseph B., 4,639,300, Cl. 204-182.300.
  - Culkin, Joseph B., 4,679,439, Cl. 73-61.400.
  - Culkin, Joseph B.; and Koffler, Adam, 4,689,134, Cl. 204-296.000.
  - Culkin, Joseph B., 4,693,802, Cl. 204-182.400.

Hubbard, Peter J., 4,661,455, Cl. 435-240.000.
Klinkowski, Peter R., 4,668,361, Cl. 204-182.300.
Klinkowski, Peter R., 4,670,118, Cl. 204-182.200.
McCoy, Daniel E.; Garver, Donald L.; and Hileman, George, 4,714,049, Cl. 122-4.00D.
Nemesi, Stephen A.; and Schmitz, James R., 4,660,779, Cl. 242-7.020.
Pietzsch, Kurt E.; and Bonnyay, Laszlo, 4,640,775, Cl. 210-387.000.
Sutton, Paul M.; and Peplinski, Joseph, 4,681,685, Cl. 210-618.000.
Vogt, Frederich H.; Bunk, Stanley A.; and D'Acierno, John P., 4,700,636, Cl. 110-165.00A.

Dorr, Richard W.: *See—*
Weimer, Ralph; Kalowski, Thaddeus J.; Dorr, Richard W.; and Novy, Robert A., 4,669,373, Cl. 99-349.000.

Dorr, Robert T.; and Alberts, David S. Aspiration device for a smoking article. 4,657,032, 4-14-87, Cl. 131-336.000.

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Dorr, Wolfgang: *See—*
Assmann, Helmut; Dorr, Wolfgang; Maier, Georg; and Peehs, Martin, 4,655,978, Cl. 264-0.500.
Gradel, Gerhard; Wahode, Peter; and Dorr, Wolfgang, 4,663,112, Cl. 376-245.000.

Dorran Photonics, Incorporated: *See—*
Cook, John S., 4,695,126, Cl. 350-96.210.
Cook, John S., 4,697,871, Cl. 350-96.210.

Dorre, Erhard: *See—*
Zichner, Ludwig; Dorre, Erhard; Prussner, Peter; and von Borries, Horst, 4,662,889, Cl. 623-20.000.

Dorrscheidt, Wolfgang: *See—*
Langpape, Reinhart; Dorrscheidt, Wolfgang; Roze, Jean-Philippe; and Steinleitner, Gunther, 4,683,179, Cl. 429-104.000.

Dorsch, Manfred; and Heinfling, Josef, to H. F. Stollberg Maschinenfabrik, GmbH. Method and apparatus for the contactless determination of the relative positions of two bodies. 4,665,361, 5-12-87, Cl. 324-207.000.

Dorschner, Terry A.: *See—*
Holz, Michael; and Dorschner, Terry A., 4,687,331, Cl. 356-350.000.

Dorsett, Preston H., to University of Tennessee Research Corp., The. Particles sensitized with detergent-treated antigen for agglutination immunoassay. 4,695,537, 9-22-87, Cl. 435-5.000.

Dorsett, Terry E.; and Rininger, David P. Electroplate to moving metal. 4,661,213, 4-28-87, Cl. 204-15.000.

Dorsey, Boyd: *See—*
Miller, Arthur O.; Coleman, Hollis; Atkinson, Roger; and Dorsey, Boyd, 4,685,127, Cl. 379-221.000.

Dorsey, Denis P., to RCA Corporation. Helical resonator. 4,700,158, 10-13-87, Cl. 333-202.000.

Dorsey, Denis P., to RCA Corporation. Radio frequency signal coupler. 4,701,725, 10-20-87, Cl. 333-185.000.

Dorsey, Eric A.: *See—*
Groner, Gabriel F.; Dorsey, Eric A.; Williams, Keith M.; and Vyas, Harihar J., 4,659,877, Cl. 379-88.000.
Groner, Gabriel F.; Dorsey, Eric A.; Williams, Keith M.; and Vyas, Harihar J., 4,716,583, Cl. 379-88.000.

Dorsey, John W.: *See—*
Steele, Douglas W.; Nash, George S.; Dorsey, John W.; Christy, Ronald S.; and Burns, Timothy L., 4,692,290, Cl. 264-101.000.

Dorsey, Michael L.: *See—*
Hughes, Larry R.; Dorsey, Michael L.; and Wensley, David, 4,693,386, Cl. 220-1.500.

Dorsey, Robert T.: *See—*
Borchardt, Michael G.; Dorsey, Robert T.; and Kamp, Ewald A., 4,710,968, Cl. 383-63.000.
Scheibner, Gerald H.; Dorsey, Robert T.; Engle, James D.; and Henderson, William E., deceased, 4,676,851, Cl. 156-66.000.

Dorsman, Adrian K., to Rockwell International Corporation. Apparatus for increasing the resolution of a laser gyroscope. 4,664,523, 5-12-87, Cl. 356-350.000.

Dorst Maschinen- und Analagenbau, Otto Dorst und Dipl.-Ing. Walter Schlegel GmbH & Co.: *See—*
Reimche, Heinrich, 4,701,122, Cl. 425-584.000.

Dorsz, Edmund D. Relation teaching block arrays. 4,674,983, 6-23-87, Cl. 434-300.000.

Dorumsgaard, John A.; and Amerson, Roger H., to Methods, Inc. Load/unload apparatus for disc-like workpieces. 4,648,774, 3-10-87, Cl. 414-416.000.

Dorwart, Richard E. Vehicular spray dampening device. 4,706,981, 11-17-87, Cl. 280-154.50R.

Dory, Jacques. Apparatus for examining and localizing tumors using ultra sounds, comprising a device for localized hyperthermia treatment. 4,658,828, 4-21-87, Cl. 128-660.000.

Doryokuro Kakunenryo Kaihatsu Jigyodan: *See—*
Ichinoseki, Tsuyoshi; Kato, Hirobumi; Miyahara, Shuji; and Kimuro, Harumi, 4,655,847, Cl. 134-7.000.
Kambe, Mitsuru; and Sasaki, Shuichi, 4,687,624, Cl. 376-264.000.
Kanai, Makoto; Aikawa, Hideaki; Inada, Eiichi; and Ohtsuka, Katsuyuki, 4,643,846, Cl. 252-626.000.
Noda, Kimio; Ozeki, Kiyoshi; Furukawa, Hiroaki; and Watai, Katsunori, 4,695,730, Cl. 250-370.000.
Sawayama, Takeo; Iimura, Izumi; and Miyazaki, Hisaya, 4,659,544, Cl. 376-451.000.
Ui, Masahito; Akiyama, Hideo; Todokoro, Akio; Natsui, Yukio; Kogure, Hiroshi; Kato, Yujiro; and Ozaki, Tsuneo, 4,667,400, Cl. 29-825.000.
Ui, Masahito; Akiyama, Hideo; Todokoro, Akio; Natsui, Yukio; Kogure, Hiroshi; Kato, Yujiro; and Ozaki, Tsuneo, 4,686,328, Cl. 174-153.00R.
Watanabe, Kenshu; Uchikawa, Tadashi; Takiyama, Masashi; and Kurahashi, Takashi, 4,648,425, Cl. 137-557.000.
Watanabe, Kenshu; Shiba, Kiminori; Arai, Mikiya; Yamaguchi, Masaya; Fujiki, Yasuo; and Fujimoto, Ryohei, 4,648,480, Cl. 181-158.000.

dos Santos Copia, Carlos R., to Maquinas NPU Ltda. Machine for making unitized stacks of bags. 4,692,134, 9-8-87, Cl. 493-196.000.

Dosai, Takayoshi: *See—*
Asari, Akira; Matsumoto, Satoshi; Hattori, Shigeo; and Dosai, Takayoshi, 4,637,112, Cl. 29-159.010.
Asari, Akira; Yamamura, Takashige; Hattori, Shigeo; Ueno, Tsuneya; Matsumoto, Satoshi; Dosai, Takayoshi; Ohtsuki, Fumikazu; Fujimoto, Kazuhiro; and Takahashi, Toshimitsu, 4,669,291, Cl. 72-83.000.

Dosaj, Vishu D.; and Rauchholz, Alvin W., to Dow Corning Corporation. Plasma smelting process for silicon. 4,680,096, 7-14-87, Cl. 204-164.000.

Dosaj, Vishu D.; Oleson, John D.; and Bokerman, Gary N., to Dow Corning Corporation. Handling of by-product gases from a silicon furnace. 4,702,902, 10-27-87, Cl. 423-350.000.

Dosaka, Katsumi: *See—*
Kumanoya, Masaki; Fujishima, Kazuyasu; Miyatake, Hideshi; Hidaka, Hideto; Dosaka, Katsumi; and Yoshihara, Tsutomu, 4,675,850, Cl. 365-230.000.
Kumanoya, Masaki; Fujishima, Kazuyasu; Miyatake, Hideshi; Hidaka, Hideto; Dosaka, Katsumi; and Nishimura, Yasumasa, 4,692,901, Cl. 365-201.000.
Kumanoya, Masaki; Fujishima, Kazuyasu; Dosaka, Katsumi; Hidaka, Hideto; Miyatake, Hideshi; and Yoshihara, Tsutomu, 4,710,901, Cl. 365-190.000.
Miyatake, Hideshi; Fujishima, Kazuyasu; Yoshihara, Tsutomu; Kumanoya, Masaki; Hidaka, Hideto; and Dosaka, Katsumi, 4,712,123, Cl. 357-23.600.

Dosako, Shunichi: *See—*
Kawakami, Hiroshi; Shinmoto, Hiroshi; Dosako, Shunichi; and Ahiko, Kenkichi, 4,668,771, Cl. 530-366.000.

Dosapro Milton Roy: *See—*
Fontaine, Guy R.; Malizard, Max A.; and Demouron, Bernard R., 4,702,674, Cl. 417-44.000.

Dosch, Robert G.: *See—*
Brooks, Robert A.; Dosch, Robert G.; and Tuttle, Bruce A., 4,681,717, Cl. 264-61.000.

Doscher, Burghard: *See—*
Knochel, Arndt; Doscher, Burghard; and Podesta, Wolfgang, 4,705,635, Cl. 210-633.000.

Dosco Corporation, The: *See—*
Hart, Dennis, 4,668,016, Cl. 299-29.000.

Dose, Raymond E. Extendible framework. 4,666,119, 5-19-87, Cl. 248-421.000.

Doshi, Dilip D., to Kimberly-Clark Corporation. Dispensing cartons for stacks of milk filters. 4,646,937, 3-3-87, Cl. 221-56.000.

Doshi, Kishore J., to Union Carbide Corporation. Enhanced gas separation process. 4,645,516, 2-24-87, Cl. 55-16.000.

Doshi, Kishore J., to Union Carbide Corporation. Enhanced gas separation process. 4,690,695, 9-1-87, Cl. 55-16.000.

Doshi, Mahesh: *See—*
Sullivan, Roderick B., II; Doshi, Mahesh; and Cooper, Lorne, 4,695,968, Cl. 364-578.000.

Doshi, Navin H. Acoustical volume/pressure measurement device. 4,704,902, 11-10-87, Cl. 73-149.000.

Doshi, Pratap K.; and Wilson, John F., to Westinghouse Electric Corp. Soluble burnable absorber rod for a nuclear reactor. 4,640,813, 2-3-87, Cl. 376-327.000.

Doshi, Pratap K., to Westinghouse Electric Corp. Segmented fuel and moderator rod. 4,664,882, 5-12-87, Cl. 376-423.000.

Doshi, Pratap K., to Westinghouse Electric Corp. Coolant flow paths within a nuclear fuel assembly. 4,666,664, 5-19-87, Cl. 376-261.000.

Doshi, Pratap K.: *See—*
Dollard, Walter J.; Doshi, Pratap K.; and George, Raymond A., 4,710,340, Cl. 376-209.000.
Orr, William L.; Doshi, Pratap K.; Mildrum, Claude M.; and Freeman, Thomas R., 4,642,216, Cl. 376-327.000.
Wilson, John F.; Doshi, Pratap K.; and Cerni, Samuel, 4,664,878, Cl. 376-328.000.

Doshi, Vikram N., to Gulton Industries, Inc. Method of etching etch-resistant materials. 4,713,145, 12-15-87, Cl. 156-667.000.

Dosimeter Corporation of America: *See—*
Gandhi, Om P., 4,672,309, Cl. 324-95.000.

Dosjoub, Andre; and Myatt, David, to Compagnie Generale des Etablissements Michelin. Circuit for the coding of the value of two variables measured in a tire, and device for monitoring tires employing such a circuit. 4,703,650, 11-3-87, Cl. 73-146.500.

Doskocil, David L. Stump grinding apparatus. 4,703,786, 11-3-87, Cl. 144-2.00N.

Doskocil, Walter: *See—*
Muller, Johann; Trieschmann, Christa; Doskocil, Walter; and Preiner, Gerhard, 4,675,425, Cl. 556-442.000.
Muller, Johann; Trieschmann, Christa; Doskocil, Walter; and Preiner, Gerhard, 4,680,365, Cl. 528-15.000.

Dosmo, Renato: *See—*
Mosconi, Pierbattista; and Dosmo, Renato, 4,644,181, Cl. 361-119.000.

Dosoudil, Martin. Disc shaped filter element. 4,637,876, 1-20-87, Cl. 210-331.000.

Doss, Hubert M. Well string section spinning tool. 4,694,712, 9-22-87, Cl. 81-57.170.

Doss, James D.; and McCabe, Charles W., to United States of America, Energy. Electrosurgical device for both mechanical cutting and coagulation of bleeding. 4,651,734, 3-24-87, Cl. 128-303.140.

Doss, James D. Passive integrating electromagnetic field dosimeter. 4,659,984, 4-21-87, Cl. 324-95.000.

Doss, James D., to United States of America, Energy. Implantable apparatus for localized heating of tissue. 4,679,561, 7-14-87, Cl. 128-422.000.

Dossel, Karl-Friedrich; and Lingnau, Jurgen, to Hoechst Aktiengesellschaft. Electrophotographic recording material having a photoconductive double layer and process for its manufacture. 4,652,507, 3-24-87, Cl. 430-57.000.

Dossey, Don E.: *See—*
Borgman, Bradley N.; Cramer, Jerry W.; and Dossey, Don E., 4,712,818, Cl. 294-64.100.

Dossey, Robert L.; and Collins, Truman J. Vise jaw support system and interchangeable vise jaws therefor. 4,706,949, 11-17-87, Cl. 269-283.000.

Dost, Willibald; and Kreutzer, Hans, to Siemens Aktiengesellschaft. Adjustment device for a reflector mirror of a laser resonator. 4,638,486, 1-20-87, Cl. 372-107.000.

Doster, William A.; and Sachsenmaier, Robert, to International Business Machines Corporation. Name usage support through distributed processing networks linked by bridges and/or gateways. 4,644,468, 2-17-87, Cl. 364-200.000.

Dostoomian, Ashod S.; and Vanzetti, Riccardo, to Vanzetti Systems, Inc. Non-contact detection of liquefaction in meltable materials. 4,657,169, 4-14-87, Cl. 228-103.000.

Dostoomian, Ashod S.: *See—*
Vanzetti, Riccardo; and Dostoomian, Ashod S., 4,696,101, Cl. 29-740.000.
Vanzetti, Riccardo; and Dostoomian, Ashod S. 4,696,104, Cl. 29-840.000.

Doswald, Paul; Moriconi, Emil; Moser, Helmut; and Schmid, Horst, to Sandoz Ltd. 1:1 and 1:2 metal complexes of sulfo group-free azo compound having on average at least 1.3 basic water-solubilizing groups. 4,665,162, 5-12-87, Cl. 534-606.000.

Doswald, Paul: *See—*
von Tobel, Hans-Rudolf; and Doswald, Paul, 4,699,626, Cl. 8-549.000.

Dothan, Felix: *See—*
Lund, Walter; Berman, Lou; and Dothan, Felix, 4,679,570, Cl. 128-715.000.

Dotsch, Horst: *See—*
Beckmann, Friedrich K.; Dotsch, Horst; and Hoppe, Wolfgang, 4,702,557, Cl. 350-330.000.

Dotson, Duane L.; and Forschirm, Alex, to Celanese Corporation. Flammable barrier wrap for solid fuel/firestarter composition. 4,692,168, 9-8-87, Cl. 44-7.100.

Dotson, James E. Fluid pumping apparatus. 4,657,489, 4-14-87, Cl. 417-467.000.

Dotter, Fritz: *See—*
Volk, Heinrich; Harter, Karl; and Dotter, Fritz, 4,694,745, Cl. 101-111.000.

Dotti, Enrico; and Sala, Angelo, to Societa' Cavi Pirelli S.p.A. Articulated cable clamp for electric cable raising and laying. 4,676,540, 6-30-87, Cl. 294-86.400.

Doty, Archibald C., Jr. Vertical antenna with improved artificial ground system. 4,658,266, 4-14-87, Cl. 343-848.000.

Doty, Edward N.: *See—*
Cabrera, Pedro P.; Berra, Humberto A.; and Doty, Edward N., 4,702,889, Cl. 422-103.000.

Doty, F. David. Microtube-strip heat exchanger. 4,676,305, 6-30-87, Cl. 165-158.000.

Doty, Francis D., to Doty Scientific, Inc. Parallel single turn saddle resonator for nuclear magnetic resonance signal reception. 4,641,098, 2-3-87, Cl. 324-322.000.

Doty, Francis D., to Doty Scientific, Inc. High voltage capacitor wand for high power tuned circuits. 4,710,719, 12-1-87, Cl. 324-318.000.

Doty, Gerald A., to Gateway Industries, Inc. Horizontal retractor. 4,705,230, 11-10-87, Cl. 242-107.40A.

Doty, Gerald A., to Gateway Industries, Inc. Seat belt retraction apparatus including an inertia sensor. 4,708,364, 11-24-87, Cl. 280-806.000.

Doty, Gerald A., to Gateway Industries, Inc. Seat belt retraction apparatus with remote inertia sensor. 4,708,366, 11-24-87, Cl. 280-803.000.

Doty, Gerald L.: *See—*
Nels, Terry E.; Eldridge, Larry; and Doty, Gerald L., 4,639,392, Cl. 428-283.000.

Doty, Keith: *See—*
Perciful, David D., 4,673,219, Cl. 299-39.000.

Doty, Mitchell E.; and Bernitsky, Thom V., to Ametek, Inc. Process and apparatus for forming thin films. 4,689,247, 8-25-87, Cl. 427-126.100.

Doty, Peter A.: *See—*
Soderquist, Mark E.; Muthyala, Ramaiah; Larson, William A.; and Doty, Peter A., 4,640,786, Cl. 252-8.551.

Doty Scientific, Inc.: *See—*
Doty, Francis D., 4,641,098, Cl. 324-322.000.
Doty, Francis D., 4,710,719, Cl. 324-318.000.

Dotzauer, Ewald: *See—*
Altendorfer, Alois; Dotzauer, Ewald; and Mueller, Wolfgang, 4,638,123, Cl. 379-229.000.

Dotzauer, Peter; and Schmidt, Martin, to Siemens Aktiengesellschaft. Cooling system for relatively movable components. 4,709,559, 12-1-87, Cl. 62-499.000.

Dotzel, Klaus P.; and Eschmeier, Heinz, to Windmoller & Holscher. Method of automatically setting the colors printed out by flexographic printing machines for four-color printing. 4,667,596, 5-26-87, Cl. 101-211.000.

Dotzler, Josef; and Meier, Johann, to Grammer Sitzsysteme GmbH. Spring arrangement. 4,679,760, 7-14-87, Cl. 248-602.000.

Douaud, Andre; and Rialan, Joseph, to Institut Francais du Petrole. Method of and device for automatically adjusting the ignition timing of a controlled ignition engine. 4,715,341, 12-29-87, Cl. 123-425.000.

Douaud, Andre: *See—*
Goldenberg, Emanuel; and Douaud, Andre, 4,682,293, Cl. 364-431.050.

Double, David D.: *See—*
Bright, Randall P.; Double, David D.; and Wise, Sean, 4,666,520, Cl. 106-97.000.

Double R Petroleum Recovery, Inc.: *See—*
Priestly, Ronald A., 4,664,603, Cl. 417-172.000.

Doublet, Daniel; Pynnonen, Arja; and Pontoizeau, Daniel. Movable hearth boiler with internal combustion and adjustable draught. 4,658,804, 4-21-87, Cl. 126-391.000.

Doublet, Luc. Hooking device for safety barriers. 4,646,807, 3-3-87, Cl. 160-135.000.

Doublet, Luc. Safety barrier and method of manufacturing same. 4,647,016, 3-3-87, Cl. 256-24.000.

Doubrava KG: *See—*
Heinbuchner, Johann, 4,633,641, Cl. 52-747.000.

Doubt, Ruxton C. Custom moldable hand grip. 4,696,842, 9-29-87, Cl. 428-40.000.

Doucet, Charles. Filter with superposed rings for filtering liquids. 4,707,259, 11-17-87, Cl. 210-351.000.

Doucet, Henri J.: *See—*
Verney, Marthe B.; and Doucet, Henri J., 4,661,710, Cl. 250-423.00R.

Doucet, Jos: *See—*
Hall, Robert L.; Franckx, Joris R. I.; Overbergh, Noel M. M.; Doucet, Jos; and Vansant, Jan, 4,685,683, Cl. 277-1.000.
Nolf, Jean-Marie E.; Genbrugge, Hubert; Buekers, Valere; Mendes, Luiz N.; Doucet, Jos; and Vansant, Jan, 4,648,168, Cl. 29-447.000.

Doucet, Jozef G. A.; Pieck, Amandus L. E.; and De Blauwe, Francis J. A. M. C., to N.V. Raychem S.A. Electrically heat-recoverable article. 4,675,512, 6-23-87, Cl. 219-535.000.

Doucette, Adrian R., deceased: *See—*
Brandstetter, Robert W.; Doucette, Adrian R., deceased; Kaplan, Herman; Lindig, Charles E.; and Fonneland, Nils J., 4,699,466, Cl. 350-162.120.

Doucette, Mary Alyce, executrix: *See—*
Brandstetter, Robert W.; Doucette, Adrian R., deceased; Kaplan, Herman; Lindig, Charles E.; and Fonneland, Nils J., 4,699,466, Cl. 350-162.120.

Douchy, Marc; Lohez, Pierre; Malecot, Jean-Guy; and Retali, Gilbert, to Commissariat a l'Energie Atomique. Programmable automatic means for the deposition in a precise position of a minute, precise quantity of liquid on an analytical support. 4,656,007, 4-7-87, Cl. 422-64.000.

Douchy, Michel, to Vallourec. Composite product having a tubular metal casing with a welt-type seam, and a core in powder form, which can be rolled up. 4,708,897, 11-24-87, Cl. 428-36.000.

Doud, Wilbur O., to Ball Corporation. Fan air cooling of neck ring and parison mold. 4,659,357, 4-21-87, Cl. 65-83.000.

Doud, Wilbur O., to Ball Corporation. Glassware molding machine with unitary axis molding and method of molding glassware. 4,680,050, 7-14-87, Cl. 65-79.000.

Douden, David K., to Minnesota Mining and Manufacturing Company. Fired hollow ceramic spheroids. 4,657,810, 4-14-87, Cl. 428-313.900.

Dougan, Donald R.; Peters, Gerald W.; and Kish, William C., to Babcock & Wilcox Company, The. Roll-and-race pulverizer with rotating throat. 4,687,145, 8-18-87, Cl. 241-57.000.

Dougher, Christine A.; and Rath, Mary L. Slatted sofa-bed construction. 4,692,952, 9-15-87, Cl. 5-37.00R.

Dougherty, James J., to International Business Machines Corporation. Method of making a planar trench semiconductor structure. 4,654,120, 3-31-87, Cl. 156-651.000.

Dougherty, John F. Fastener for a lace or rope or the like. 4,648,159, 3-10-87, Cl. 24-117.000.

Dougherty, John J., to General Electric Company. RMS calculation circuit for digital circuit interrupters. 4,658,323, 4-14-87, Cl. 361-79.000.

Dougherty, John J.: *See—*
Bilac, Maric M.; Dougherty, John J.; Purkayastha, Indrajit; and Premerlani, William J., 4,672,501, Cl. 361-96.000.
Martellock, Paul T.; Dougherty, John J.; and Lund, Nora A., 4,685,024, Cl. 361-93.000.
Todaro, Frank A.; and Dougherty, John J., 4,706,158, Cl. 361-92.000.

Dougherty, Joseph P.: *See—*

  AbuJudom, David N., II; Dougherty, Joseph P.; and Stengel, Kevin M., 4,708,600, Cl. 417-322.000.

Dougherty, Lawrence W.; and Strauss, Paul, to Zenith Electronics Corporation. Color CRT front assembly with tension mask support. 4,686,416, 8-11-87, Cl. 313-407.000.

Dougherty, Lawrence W.; and Fendley, James R., to Zenith Electronics Corporation. Front assembly system for a tension mask color cathode ray tube. 4,710,670, 12-1-87, Cl. 313-407.000.

Dougherty, Lawrence W.: *See—*

  Adamski, Alfred; DeFranco, Thomas P.; and Dougherty, Lawrence W., 4,710,669, Cl. 313-402.000.

Dougherty, Paul D. Method and apparatus for producing registered multiple overlay architectural drawings in a computer aided drafting system. 4,674,191, 6-23-87, Cl. 33-613.000.

Dougherty, Robert C., to Durodyne, Inc. High tensile strength removable hose covering. 4,679,600, 7-14-87, Cl. 138-128.000.

Dougherty, Steven J. Apparatus for measuring entrained gas-phase content in a liquid. 4,700,561, 10-20-87, Cl. 73-19.000.

Dougherty, Thomas J.; Potter, William R.; and Weishaupt, Kenneth R., to Health Research, Inc. Drugs comprising porphyrins. 4,649,151, 3-10-87, Cl. 514-410.000.

Doughman, Donald J.: *See—*

  Lindstrom, Richard L.; Doughman, Donald J.; and Skelnik, Debra, 4,695,536, Cl. 435-1.000.

Doughty, Dennis J.; Seymour, Raymond K.; Ciarcia, Ronald D.; and DiVincenzo, Gregory T., to General Electric Company. Circuit breaker line terminal screw retainer. 4,650,272, 3-17-87, Cl. 339-198.00R.

Doughty, Dennis J.: *See—*

  Ciarcia, Ronald D.; DiVincenzo, Gregory T.; Doughty, Dennis J.; and Bernier, Richard E., 4,698,903, Cl. 29-622.000.

Doughty, John: *See—*

  Seddon, Alan E.; and Doughty, John, 4,679,672, Cl. 191-41.000.

Doughty, John P.: *See—*

  Buck, Robert H.; Cowan, Kent G.; Doughty, John P.; and Marshall, Stephen E., 4,688,021, Cl. 340-521.000.

Doughty, Robert L.: *See—*

  Douglas, Robert J.; Doughty, Robert L.; Mungovan, John P.; Andersen, Robert P.; and Abbott, Vaughan, 4,687,502, Cl. 65-164.000.

Douglas, Barry D., to General Motors Corporation. Robotic mechanical hand. 4,643,473, 2-17-87, Cl. 294-111.000.

Douglas, Barry D.; and McCurdy, Frederick A., to General Motors Corporation. Quick disconnect device. 4,679,956, 7-14-87, Cl. 403-14.000.

Douglas Battery Manufacturing Co.: *See—*

  Kellett, James H.; Gaddis, Raymond W.; Fritts, Robert W.; and Schoenecker, David L., 4,693,949, Cl. 429-178.000.

Douglas, Daniel G., Jr., to Reference Technology, Inc. Timing system for laser disc having digital information. 4,651,231, 3-17-87, Cl. 358-342.000.

Douglas, Donald J., to MDS Health Group Limited. Method and apparatus having RF biasing for sampling a plasma into a vacuum chamber. 4,682,026, 7-21-87, Cl. 250-288.000.

Douglas, Gary R.; Kusy, Paul F.; and Groteluesschen, Ralph D., to Deere & Company. Phosphoric acid/lime hazardous waste detoxification treatment process. 4,671,882, 6-9-87, Cl. 210-720.000.

Douglas, George H.: *See—*

  Bradbury, Colin; and Douglas, George H., 4,694,405, Cl. 364-518.000.

  Studt, William L.; Riley, Richard L.; and Douglas, George H., 4,704,401, Cl. 514-456.000.

Douglas, George R.: *See—*

  Slebzak, Gary R.; Thompson, John H.; and Douglas, George R., 4,704,709, Cl. 367-158.000.

Douglas-Hamilton, Margaret M., to Hamilton/Thorn Research Associates. Device and method for facilitating animal artificial insemination. 4,690,678, 9-1-87, Cl. 604-349.000.

Douglas, Helen E. Garment drying hanger. 4,673,114, 6-16-87, Cl. 223-89.000.

Douglas, James A.: *See—*

  McGrath, Ann M.; and Douglas, James A., 4,696,471, Cl. 273-29.00A.

Douglas, Larry D., to Multiflex International, Inc. Umbilical safety joint. 4,640,163, 2-3-87, Cl. 83-175.000.

Douglas, Larry D.: *See—*

  Kovit, Sheldon L.; Tousek, Emil J.; and Douglas, Larry D., 4,707,041, Cl. 439-131.000.

Douglas Marine s.r.l.: *See—*

  Scotti, Marino D., 4,671,695, Cl. 403-213.000.

Douglas, Monte A.; and Bonifield, Thomas D., to Texas Instruments Incorporated. Oxide etch. 4,654,112, 3-31-87, Cl. 156-643.000.

ouglas, Monte A., to Texas Instruments Incorporated. Tin etch process. 4,675,073, 6-23-87, Cl. 156-643.000.

ouglas, Monte A., to Texas Instruments Incorporated. Tapered trench process. 4,690,729, 9-1-87, Cl. 156-643.000.

ouglas, Monte A., to Texas Instruments Incorporated. Trench etch process. 4,702,795, 10-27-87, Cl. 156-643.000.

ouglas, Monte A., to Texas Instruments Incorporated. Silicon oxide thin film etching process. 4,711,698, 12-8-87, Cl. 156-643.000.

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uglas, Phillip N.; and Johnson, Alan G. Multiple phase CRC generator. 4,700,350, 10-13-87, Cl. 371-37.000.

Douglas, Robert J.; Doughty, Robert L.; Mungovan, John P.; Andersen, Robert P.; and Abbott, Vaughan, to Emhart Industries, Inc. Universal servo-driven gob distributor. 4,687,502, 8-18-87, Cl. 65-164.000.

Douglas, Roy D.: *See—*

  Larson, Paul F.; Douglas, Roy D.; Petrofsky, Jerrold S.; and Phillips, Chandler A., 4,697,808, Cl. 272-70.000.

Douglas, Stephen B.; and Fisk, Allan T., to Foster-Miller, Inc. Pipeline coupling. 4,662,656, 5-5-87, Cl. 285-39.000.

Douglas, Thomas E.: *See—*

  Taub, Alan I.; Frischmann, Peter G.; and Douglas, Thomas E., 4,670,636, Cl. 219-121.0EH.

Douglas, William A., to United Technologies Automotive, Inc. Hot applied, expandable sealer. 4,680,316, 7-14-87, Cl. 521-89.000.

Douglas, William A.; and Ozer, Theodore, to Boeing Company, The. Universal holding fixture. 4,684,113, 8-4-87, Cl. 269-21.000.

Douglas, William A., to United Technologies Automotive, Inc. Hot applied, expandable sealer. 4,693,772, 9-15-87, Cl. 156-79.000.

Douglas, William D.: *See—*

  Loveday, Brian K.; Tumily, James A. J.; and Douglas, William D., 4,666,212, Cl. 299-5.000.

Douglass, Duane: *See—*

  Dirkin, William; Douglass, Duane; Tootle, James N.; and Benton, Terry L., 4,685,384, Cl. 92-166.000.

  Dirkin, William; Douglass, Duane; Tootle, James N.; and Benton, Terry L., 4,697,499, Cl. 92-151.000.

Douglass, Eugene F.; Sullivan, Michael J.; and Young, Austin H., to A. E. Staley Manufacturing Company. Process for producing filled or reinforced polymer compositions. 4,663,388, 5-5-87, Cl. 525-54.300.

Douglass, Harold E., Jr.; and Mahaffee, Joseph W., III, to United States of America, National Security Agency. Pneumatic audio sweep generator. 4,709,652, 12-1-87, Cl. 116-140.000.

Douklias, Nikolaos; and Grabmaier, Josef, to Siemens Aktiengesellschaft. Method for manufacturing preforms of glass for optical fibers. 4,642,129, 2-10-87, Cl. 65-3.120.

Doumani, Robert S.: *See—*

  Estkowski, Michael H.; Doumani, Robert S.; and Estkowski, Christopher G., 4,696,394, Cl. 206-303.000.

Doumoto, Yasuo: *See—*

  Narushima, Tsugio; Arai, Tsutomu; and Doumoto, Yasuo, 4,634,304, Cl. 400-691.000.

Doung, Cheen P.; and Gupta, Anil, to Exel Microelectronics Inc. Charge pump method and apparatus. 4,667,312, 5-19-87, Cl. 365-189.000.

Douno, Shugo; and Tomiyama, Hiroshi, to Glory Kogyo Kabushiki Kaisha. Method for confirming settled check cards and check card drawing apparatus. 4,686,357, 8-11-87, Cl. 235-379.000.

Doura, Fumihiro; Asada, Kazuo; and Inoue, Kouichi, to Takeda Chemical Industries, Ltd. Resin compositions and products using the same. 4,666,981, 5-19-87, Cl. 525-100.000.

Doura, Fumihiro: *See—*

  Nasu, Kohji; and Doura, Fumihiro, 4,656,211, Cl. 524-198.000.

Dournel, Solange: *See—*

  Chastanet, Bernard; Decailloz, Claude; Dournel, Solange; and Manson, Marcel, 4,636,606, Cl. 219-121.0LC.

Douros, Bryan P.; and Marcuvitz, Andrew, to Apollo Computer, Inc. Adaptively synchronized ring network for data communication. 4,716,575, 12-29-87, Cl. 375-3.000.

Doussiet, Roger, to Societe Nationale Elf Aquitaine (Production). Permeameter. 4,671,100, 6-9-87, Cl. 73-38.000.

Dousteyssier, Jacques: *See—*

  Corvazier, Philippe; and Dousteyssier, Jacques, 4,691,113, Cl. 250-577.000.

Doute, Pascal: *See—*

  de Guelis, Hubert V.; and Doute, Pascal, 4,696,496, Cl. 285-137.100.

Doutney, George J., to Pitney Bowes Inc. Method and apparatus for neutralizing residual charge on a photoconductive surface. 4,640,599, 2-3-87, Cl. 355-3.0CH.

Doutremepuich, Christian: *See—*

  Vairel, Edmond G.; Brouty-Boye, Huguette; Toulemonde, Francis; and Doutremepuich, Christian, 4,687,765, Cl. 514-56.000.

Doutrich, Ray C.; and DeShong, George T., to Du Pont de Nemours, E. I., and Company. Electrical connector apparatus. 4,690,477, 9-1-87, Cl. 439-595.000.

Doutsubo, Nobuhide, to Sanyo Electric Co., Ltd. Video signal reproducing apparatus using pilot signal system. 4,642,704, 2-10-87, Cl. 360-10.200.

Doutsubo, Nobuhide, to Sanyo Electric Co., Ltd. Apparatus for discriminating the recording mode of one of a plurality of recording modes and for reproducing the magnetically recorded video signal. 4,663,673, 5-5-87, Cl. 360-9.100.

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Doutt, Kingsley A. Automatic shut-off valve for welding electrode coolant systems. 4,650,152, 3-17-87, Cl. 251-16.000.

Douty, George H.; and Landis, John M., to AMP Incorporated. Multiplane connector system. 4,678,121, 7-7-87, Cl. 439-610.000.

Douty, George H.: *See—*

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Douville, Richard L.: *See—*

  Bonacci, Stephen T.; Douville, Richard L.; and Winter, Rodger C., 4,712,598, Cl. 160-84.00R.

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  - Aarts, Mathias L. C., 4,656,866, Cl. 73-49.300.
  - le Granse, Josephus N., 4,708,263, Cl. 222-1.000.
  - van de Haar, Rijk; and Thomassen, Johan H. C., 4,653,252, Cl. 53-449.000.
- Douwes, Adolphe M., to Stamicarbon B.V. Process for the recovery of valuable components from the waste streams obtained in the preparation of urea. 4,652,678, 3-24-87, Cl. 564-73.000.
- Douziech, Patrick; and Imbert, Michel, to Thomson-CSF. Process and circuit for the demodulation of chrominance signals. 4,644,388, 2-17-87, Cl. 358-23.000.
- Dovala, Donald L.: *See—*
  - Goudy, Paul R., Jr.; Weekley, William G.; Dovala, Donald L.; and Olszewski, Thomas C., Sr., 4,687,031, Cl. 141-9.000.
- Dovan, Hoai T.: *See—*
  - Hutchins, Richard D.; and Dovan, Hoai T., 4,694,906, Cl. 166-294.000.
- Dove, Albert W.: *See—*
  - New, Dane S.; and Dove, Albert W., 4,691,658, Cl. 114-66.000.
- Dove, Derek B.: *See—*
  - Crowe, Jesse R.; Dove, Derek B.; and Shih, Kwang K., 4,699,533, Cl. 400-241.100.
- Dove, George B.; and Mitra, Gautam, to Miles Laboratories, Inc. Method of separating proteins from aqueous solutions. 4,684,723, 8-4-87, Cl. 530-351.000.
- Dove, James E., Jr. Rocker arm and method of forming the same. 4,674,453, 6-23-87, Cl. 123-90.390.
- Dove, John; and Showell, Anthony D., to A. W. Showell (Surgicraft) Limited. Devices for spinal fixation. 4,686,970, 8-18-87, Cl. 128-92.0YM.
- Dove, Michael J.: *See—*
  - Burns, Roland S.; and Dove, Michael J., 4,664,052, Cl. 114-144.00E.
- Dove, Norman F. Adjustment device for a lip of a headbox slice. 4,692,213, 9-8-87, Cl. 162-259.000.
- Dove, Robert L.: *See—*
  - Sullivan, Jeremiah B.; Shaheen, Donald G.; Stanovick, Richard P.; and Dove, Robert L., 4,653,644, Cl. 206-538.000.
- Dove, Thomas D., to Bedinghaus Business Forms, Inc. Business form design aid. 4,638,569, 1-27-87, Cl. 33-562.000.
- Dover, B. Troy: *See—*
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- Dover Corporation: *See—*
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  - Casey, Robert, 4,696,484, Cl. 280-43.160.
  - DeVisser, Richard B.; and Hagerty, Sydney, 4,642,188, Cl. 210-333.100.
  - Fahl, Richard L., 4,693,268, Cl. 137-219.000.
  - Hamman, Reed K., 4,634,337, Cl. 414-563.000.
  - Holland, Gordon A., 4,658,935, Cl. 187-122.000.
  - McMath, Jack A., 4,649,969, Cl. 141-290.000.
  - McMath, Jack A., 4,687,024, Cl. 137-615.000.
  - Petter, William J.; Moore, Glenn E.; McMath, Jack A.; and Pemberton, Eugene B., 4,659,251, Cl. 405-52.000.
  - Wood, Chester W., 4,682,714, Cl. 222-153.000.
- Dover Handbag Co., Inc.: *See—*
  - O'Donnell, Roseann, 4,662,550, Cl. 224-209.000.
- Dover, Jerome J., to Basic American Foods. Deep fat fryer. 4,694,742, 9-22-87, Cl. 99-404.000.
- Dover Molded Products Co.: *See—*
  - Kessler, Milton; and Ullman, Myron, 4,688,619, Cl. 160-225.000.
  - Ullman, Myron, 4,691,839, Cl. 220-281.000.
- Dover Resources, Inc.: *See—*
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- Dow Chemical Company, The: *See—*
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  - Adams, Glen L.; and Messelt, Christopher D., 4,661,589, Cl. 536-91.000.
  - Adaway, Timothy J., 4,681,941, Cl. 546-302.000.
  - Adaway, Timothy J., 4,701,531, Cl. 546-297.000.
  - Alberino, Louis M.; Pritchard, James R.; and Vespoli, Nancy P., 4,659,747, Cl. 521-159.000.
  - Alderman, Daniel A.; and Wolford, Troy D., 4,678,516, Cl. 106-197.100.
  - Alderman, Daniel A., 4,695,464, Cl. 424-449.000.
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  - Allada, Sambasiva R., 4,695,621, Cl. 528-483.000.
  - Allada, Sambasiva R., 4,703,105, Cl. 528-483.000.
  - Alle, Narasaiah, 4,640,959, Cl. 525-316.000.
  - Anderson, Kenneth W.; and Hickner, Richard A., 4,698,141, Cl. 204-181.700.
  - Ash, Mary L.; Lee, Do I.; and Frick, Carl H., 4,666,777, Cl. 428-407.000.
  - Aucoin, Daniel A., 4,642,554, Cl. 324-51.000.
  - Bartz, Arnold M.; and Wineland, Stanley H., 4,699,516, Cl. 356-445.000.
  - Battig, Johann R., 4,648,537, Cl. 225-43.000.
  - Beaver, Richard N.; Morris, Gregory J. E.; Dang, Hiep D.; and Pimlott, John R., 4,666,579, Cl. 204-253.000.
  - Beaver, Richard N.; Morris, Gregory J. E.; Dang, Hiep D.; and Pimlott, John R., 4,666,580, Cl. 204-254.000.
  - Beaver, Richard N.; Morris, Gregory J.; Pimlott, John R.; and Dang, Hiep D., 4,690,748, Cl. 204-279.000.
  - Beck, H. Nelson; and MacWilliams, Dalton C., 4,692,355, 427-297.000.
  - Bedell, Stephen A., 4,696,802, Cl. 423-226.000.
  - Beer, James J.; and Lee, Do I., 4,707,221, Cl. 162-158.000.
  - Behr, R. Douglas; and Zieke, Larry M., 4,698,954, Cl. 53-551.
  - Behr, Raymond D.; and Zieke, Larry M., 4,701,358, Cl. 428-35.
  - Behrens, Hugh C., 4,633,930, Cl. 164-66.100.
  - Behrens, Hugh C., 4,635,706, Cl. 164-500.000.
  - Behrens, Hugh C., 4,688,431, Cl. 73-861.110.
  - Bergman, Roger W.; and Smith, Harry A., 4,699,711, 209-166.000.
  - Bertram, James L.; Walker, Louis L.; McCrary, Avis L.; Cortez, Fermin M., 4,649,188, Cl. 528-165.000.
  - Bertram, James L.; and Walker, Louis L., 4,665,149, Cl. 528-96.
  - Bertram, James L.; and Woo, Edmund P., 4,673,764, 564-155.000.
  - Bertram, James L.; and Woo, Edmund P., 4,673,765, 564-155.000.
  - Bertram, James L.; and Woo, Edmund P., 4,675,443, 564-155.000.
  - Bethea, James R.; and Knight, Clifton T., 4,708,615, 425-131.100.
  - Beyer, Douglas E.; and Carrington, Edward T., 4,645,796, 525-84.000.
  - Bogan, Gary W.; Lucas, Peter A.; and Monnerat, Georgia 4,701,481, Cl. 523-428.000.
  - Bogan, Gary W.; Lucas, Peter A.; Monnerat, Georgia A.; Aldrich, Dale J., 4,710,429, Cl. 428-417.000.
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  - Booth, Llewellyn D.; and Cohen, Arie, 4,713,202, Cl. 264-46.
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  - Britt, Thomas R.; and Burton, Willie C., 4,683,333, Cl. 564-4
  - Burba, John L., III; and Barnes, Audrey L., 4,664,843, 252-315.500.
  - Burchell, Donald J., Jr.; and Peffley, Richard D., 4,701,476, 521-159.000.
  - Burmester, Alan F.; and Trent, John S., 4,666,987, Cl. 525-193
  - Busk, Robert S., 4,694,881, Cl. 164-113.000.
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  - Byrne, Joseph B., 4,710,548, Cl. 525-439.000.
  - Callan, Lawrence W., 4,656,865, Cl. 73-38.000.
  - Campbell, Kent D.; Dietsche, Laura J.; Crampton, Lee B.; Ho Keith D.; Tyson, George K.; and Wilson, Charles A., 4,713 Cl. 423-356.000.
  - Campbell, Richard E., Jr., 4,665,046, Cl. 502-102.000.
  - Carl, William P.; and Birdwell, Jeffrey D., 4,650,551, Cl. 59.00R.
  - Carl, William P.; and Birdwell, Jeffrey D., 4,650,711, 428-265.000.
  - Carl, William P.; and Birdwell, Jeffrey D., 4,698,243, 427-341.000.
  - Carville, Donna B.; and Washington, Samuel J., 4,650,853, 528-416.000.
  - Cassidy, Edward F.; Goldwasser, David J.; and Onder, Ke 4,668,756, Cl. 528-69.000.
  - Cavitt, Michael B., 4,713,404, Cl. 523-172.000.
  - Chang, Dane; and Bedell, Stephen A., 4,643,886, Cl. 423-226.
  - Chang, Dane; and Treybig, Duane S., 4,701,484, Cl. 524-59.
  - Chang, Kuo Y., 4,695,408, Cl. 260-395.000.
  - Chen, Augustin T.; and Onder, Kemal, 4,649,180, Cl. 525-462.
  - Chou, Richard T., 4,709,039, Cl. 548-237.000.
  - Chrisman, Ray W.; McLachlan, Richard D.; and Harner, Rich S., 4,672,218, Cl. 250-574.000.
  - Christy, Mark R.; and Ecker, Ernest L., 4,714,729, Cl. 524-281.
  - Chum, Pak-Wing S.; Barger, Mark A.; Dixit, Thuan P.; and S etz, James E., 4,661,303, Cl. 264-171.000.
  - Chung, David Y.; and Tung, Lu H., 4,659,784, Cl. 525-294.00
  - Cipriano, Robert A.; and Ezzell, Bobby R., 4,652,350, 204-72.000.
  - Clark, Daniel O.; Tsang, Floris Y.; and Damrow, Paul 4,664,990, Cl. 429-104.000.
  - Clark, George B., 4,668,395, Cl. 210-321.100.
  - Clark, Howard W., 4,661,282, Cl. 252-179.000.
  - Coleman, William M., III; Schmidt, Gregory F.; Campbell, R ard E., Jr.; and Delaney, Mark S., 4,659,685, Cl. 502-113.00
  - Conway, Mark M.; Murchison, Craig B.; and Stevens, Re 4,675,344, Cl. 518-714.000.
  - Coyne, Brenton S.; Strandjord, Andrew J.; Spence, Mark Willis, Reid S.; Bredeweg, Robert A.; and Stevens, Timoth 4,715,217, Cl. 73-61.10C.
  - Cringle, David C.; Pearce, Roscoe L.; and DuPart, Michael 4,690,740, Cl. 204-147.000.
  - Croft, Alan P., 4,698,433, Cl. 548-228.000.
  - Crump, Druce K.; Simon, Jaime; and Wilson, David A., 4,680 Cl. 544-337.000.
  - Czerepinski, Ralph G.; and Gunderman, Roland E., 4,713,41 524-833.000.
  - Dai, Shenghong A., 4,642,342, Cl. 540-356.000.
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  - Dang, Hiep D.; Beaver, Richard N.; and Pimlott, John 4,654,136, Cl. 204-283.000.

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Dang, Hiep D.; and Beaver, Richard N., 4,668,372, Cl. 204-279.000.
Davis, Thomas E.; Schmidt, Donald L.; Kau, Jee I.; Wessling, Ritchie A.; Whipple, Sharon S.; Fibiger, Richard F.; and Pickelman, Dale M., 4,704,324, Cl. 428-308.400.
Delaney, Mark S.; Marshall, William B.; and Brewbaker, James L., 4,668,746, Cl. 526-180.000.
DeLassus, Phillip; and Raich, William J., 4,694,068, Cl. 528-502.000.
Delcour, Kees, 4,647,379, Cl. 210-736.000.
DesJardin, Michael A.; Dietsche, Thomas J.; and Orvik, Jon A., 4,713,460, Cl. 546-345.000.
DeVries, Robert A., 4,640,831, Cl. 423-481.000.
D'Hont, Yvan R., 4,652,601, Cl. 524-314.000.
Dianis, William P.; and Williams, Alan J., 4,665,256, Cl. 585-467.000.
Dianis, William P., 4,668,837, Cl. 585-466.000.
Dighton, Gaylon L.; and Hutter, Wayne R., 4,688,370, Cl. 53-469.000.
Dighton, Gaylon L.; and Lewis, John W., 4,702,009, Cl. 33-126.600.
Dighton, Gaylon L.; and Pennington, Donald W., 4,705,809, Cl. 521-62.000.
Dirlikov, Stoil K., 4,663,416, Cl. 528-73.000.
Dirlikov, Stoil K.; and Schneider, Connie J., 4,709,059, Cl. 549-453.000.
Dohrer, Gregory L.; and Knight, George W., 4,680,328, Cl. 524-137.000.
Dolinar, Blair E., 4,644,733, Cl. 53-472.000.
Doorenbos, Harold E.; and Jones, Giffin D., 4,672,136, Cl. 558-61.000.
Dorman, Linneaus C.; and Meyers, Paul A., 4,634,720, Cl. 521-63.000.
Dorman, Linneaus C.; and Meyers, Paul A., 4,636,526, Cl. 521-61.000.
Dorman, Linneaus C.; and Meyers, Paul A., 4,661,536, Cl. 523-113.000.
Dorman, Linneaus C.; Meyer, Victor E.; and Wu, Marinda L., 4,695,295, Cl. 55-16.000.
Dorman, Linneaus C.; and Meyers, Paul A., 4,698,375, Cl. 523-115.000.
Dunbar, Joseph E.; Hedstrand, David M.; and Maruyama, Kimiaki, 4,661,520, Cl. 514-609.000.
Dunbar, Joseph E.; and Hedstrand, David M., 4,684,398, Cl. 71-98.000.
Dunbar, Joseph E.; and Maruyama, Kimiaki, 4,689,348, Cl. 514-609.000.
Dunbar, Joseph E.; and Maruyama, Kimiaki, 4,692,467, Cl. 514-609.000.
Dunbar, Joseph E.; Holmsen, Theodore W.; and Senkbeil, Herman O., 4,701,211, Cl. 71-121.000.
Duquette, Lawrence G.; and Garrou, Philip E., 4,684,729, Cl. 544-357.000.
Easterly, James P., Jr.; Foshee, William C.; and Lamphere, Jack C., 4,676,913, Cl. 210-734.000.
Ehr, Robert J.; Tobol, Helen K.; and Troxell, Lillian H., 4,670,045, Cl. 71-94.000.
Ellerbe, Gilbert B., III; and Parrish, Donald B., 4,696,976, Cl. 525-126.000.
Elliott, Brian W., 4,678,712, Cl. 428-418.000.
Esneault, Calvin P.; and Lund, Gary K., 4,707,521, Cl. 525-250.000.
Evans, John C., 4,715,717, Cl. 356-429.000.
Evans, John C., 4,715,718, Cl. 356-446.000.
Evans, Thomas E.; and Bowen, Christine M., 4,680,211, Cl. 428-65.000.
Ewen, James H.; and Guerrero, John O., 4,667,009, Cl. 528-68.000.
Ezzell, Bobby R.; Carl, William P.; and Mod, William A., 4,687,821, Cl. 526-247.000.
Fairchok, William J.; Friedrich, Ralph E.; Thill, Bruce P.; and McKinley, Mark J., 4,694,050, Cl. 525-411.000.
Farquharson, Richard A.; Reierson, Robert L.; and Burdett, Kenneth A., 4,666,706, Cl. 424-408.000.
Fazio, Michael J., 4,661,633, Cl. 564-286.000.
Feay, Darrell C., 4,704,432, Cl. 525-133.000.
Fisk, Thomas E.; and Hoffman, Dwight K., 4,640,935, Cl. 521-137.000.
Fisk, Thomas E., 4,663,475, Cl. 560-137.000.
Fisk, Thomas E.; and Tucker, Christopher J., 4,672,118, Cl. 546-13.000.
Flores, David P.; Meiller, John G.; and Massie, James D., 4,680,357, Cl. 526-265.000.
Frazier, Kevin A.; and Renga, James M., 4,713,458, Cl. 546-115.000.
Freeman, Thurman W., 4,669,246, Cl. 52-408.000.
Friese, David D., 4,649,201, Cl. 546-345.000.
Fuentes, Ricardo, Jr.; Marchand, Gary R.; and Meiske, Larry A., 4,661,465, Cl. 502-111.000.
Fujioka, George S., 4,650,875, Cl. 546-345.000.
Fujioka, George S., 4,680,406, Cl. 546-345.000.
Gansow, Michael A. P.; Shadid, Omar B.; and Spork, Johannes E. G., 4,704,411, Cl. 521-166.000.
Garces, Juan M.; and Robinson, John W., 4,657,890, Cl. 502-340.000.
Gartner, Charles D.; and Hagans, Patrick L., 4,659,629, Cl. 428-469.000.
Gorrell, Donald B., 4,650,372, Cl. 405-232.000.
Graham, Stephen L.; and Plunkett, David O., 4,654,389, Cl. 524-272.000.
Graham, Stephen L.; and Plunkett, David O., 4,714,728, Cl. 524-272.000.
Gray, Trevor E.; Grant, Charles B.; and Dietsche, Thomas J., 4,672,125, Cl. 546-345.000.
Green, John G.; and Hunt, David G., 4,639,472, Cl. 522-107.000.
Green, John G., 4,647,608, Cl. 524-232.000.
Green, William G., 4,705,561, Cl. 75-58.000.
Gregory, Thomas D.; and Hoffman, Ronald J., 4,702,974, Cl. 429-50.000.
Gregory, Thomas D., 4,705,728, Cl. 429-192.000.
Grierson, Jeffrey G.; Jones, Carol A.; and Spears, William D., 4,640,818, Cl. 422-15.000.
Grinstead, Robert R., 4,708,854, Cl. 423-235.000.
Gurgiolo, Arthur E.; Winquist, Marvin E.; Knobel, Thomas M.; and Teeters, Dale C., 4,643,953, Cl. 428-520.000.
Gurgiolo, Arthur E.; Winquist, Marvin E.; Knobel, Thomas M.; and Teeters, Dale C., 4,654,273, Cl. 428-522.000.
Habermann, Clarence E.; and Garrett, David S., 4,668,347, Cl. 204-33.000.
Hahnfeld, Jerry L., 4,690,976, Cl. 525-70.000.
Hall, Mark J.; and Hyun, Kun S., 4,692,508, Cl. 528-503.000.
Ham, George E.; Chen, Wuu-Nan; and McIntyre, John M., 4,678,601, Cl. 252-500.000.
Harley, A. Dale; Duquette, Lawrence G.; Khoury, Issam A.; and Kohatsu, Iwao, 4,710,227, Cl. 106-193.00R.
Harris, Robert F., 4,686,273, Cl. 528-196.000.
Harris, Robert F.; and Prier, Donald G., 4,686,274, Cl. 528-196.000.
Harris, Robert F., 4,689,353, Cl. 521-159.000.
Harris, Robert F., 4,709,069, Cl. 558-265.000.
Hay, Robert A., II, 4,647,213, Cl. 366-199.000.
Hefner, Robert E., Jr.; and White, Mary N., 4,636,542, Cl. 523-466.000.
Hefner, Robert E., Jr.; and Hunter, Douglas L., 4,640,957, Cl. 525-44.000.
Hefner, Robert E., Jr.; and White, Mary N., 4,649,187, Cl. 528-117.000.
Hefner, Robert E., Jr.; and White, Mary N., 4,649,190, Cl. 528-370.000.
Hefner, Robert E., Jr., 4,661,553, Cl. 524-418.000.
Hefner, Robert E., Jr., 4,663,398, Cl. 525-419.000.
Hefner, Robert E., Jr., 4,668,745, Cl. 525-531.000.
Hefner, Robert E., Jr., 4,680,378, Cl. 528-322.000.
Hefner, Robert E., Jr., 4,683,276, Cl. 526-262.000.
Hefner, Robert E., Jr., 4,692,500, Cl. 525-529.000.
Hefner, Robert E., Jr.; and White, Mary N., 4,699,933, Cl. 521-166.000.
Hefner, Robert E., Jr., 4,701,257, Cl. 209-166.000.
Hefner, Robert E., Jr., 4,707,533, Cl. 528-96.000.
Helms, Roger L.; and Harper, Stephen M., 4,689,183, Cl. 261-97.000.
Henslee, Walter W.; Morrow, Stanley J.; and Lindsey, John S., 4,648,954, Cl. 204-243.00R.
Henson, Edwin R.; and Courtwright, Joel G., 4,663,121, Cl. 422-12.000.
Henton, David E., 4,713,420, Cl. 525-236.000.
Herrero, Maria P.; and Holtwick, Joseph B., 4,702,761, Cl. 71-87.000.
Hillshafer, Douglas K.; and Turner, Robert B., 4,687,788, Cl. 521-163.000.
Hoffman, Dwight K.; Stevens, Michael G.; and Messick, Virginia B., 4,690,988, Cl. 525-502.000.
Hoffman, Dwight K.; and Fernandez, Reet T., 4,707,529, Cl. 525-476.000.
Hoffman, Dwight K.; and Arends, Charles B., 4,708,996, Cl. 525-530.000.
Hoffman, Ronald J., 4,650,731, Cl. 429-112.000.
Hoki, Tsuneo; and Miura, Nobuo, 4,652,590, Cl. 521-139.000.
Houtchens, Robert A.; Cheng, Roberta C.; McCoy, Karen M.; Epstein, Carol C.; and Moll, Norman G., 4,675,292, Cl. 435-94.000.
Hucul, Dennis A., 4,713,363, Cl. 502-262.000.
Humphreys, Paula L.; and Dietsche, Thomas J., 4,681,945, Cl. 546-345.000.
Humphreys, Paula L.; Dietsche, Thomas J.; and Bixby, James L., 4,701,532, Cl. 546-345.000.
Hunter, Douglas L.; and Moore, Stanley E., 4,642,395, Cl. 568-883.000.
Hunter, Douglas L.; Moore, Stanley E.; and Willis, Gordon G., 4,647,708, Cl. 568-883.000.
Hunter, Douglas L., 4,684,667, Cl. 521-32.000.
Huynh-Ba, Gia; and McGrath, James E., 4,668,742, Cl. 525-294.000.
Irving, Nicholas M., 4,701,520, Cl. 528-412.000.
Johns, Dennis M., 4,645,512, Cl. 23-293.00R.
Johnson, Homer K., 4,707,267, Cl. 210-650.000.
Johnson, Mark R., 4,704,470, Cl. 560-137.000.
Johnson, Vincent L.; and Moser, Kurt, 4,707,339, Cl. 422-133.000.
Johnston, Howard; and Troxell, Lillian H., 4,678,509, Cl. 71-94.000.
Juhl, Roger L.; Potter, James L.; and Polemenakos, Sotiros C., 4,714,736, Cl. 524-608.000.
Jung, Chu W.; Garrou, Philip E.; and Strickler, Gary R., 4,709,115, Cl. 585-643.000.
Kalnins, John M.; McIntyre, James A.; Moyer, John R.; Phillips, Robert F.; and Snoble, Karel A. J., 4,701,247, Cl. 204-131.000.

Kaufman, James A.; and McKinley, Suzanne V., 4,654,174, Cl. 260-410.600.
Kelch, Robert H., 4,680,234, Cl. 428-461.000.
Keskey, William H.; Schuetz, James E.; and Hickman, Andrew D., 4,644,032, Cl. 524-549.000.
Keskey, William H.; and Willency, Richard A., 4,666,974, Cl. 524-547.000.
Keskey, William H.; and Johnson, Mark R., 4,690,995, Cl. 526-286.000.
Khoury, Issam A.; Heistand, Robert H., II; and Kohatsu, Iwao, 4,641,221, Cl. 361-321.000.
Kildea, James M.; Bedner, Maria D.; and Gulick, John J., 4,637,514, Cl. 206-406.000.
Kirchhoff, Robert A., 4,638,078, Cl. 558-414.000.
Kirchhoff, Robert A.; Schrock, Alan; and Gilpin, Jo A., 4,642,329, Cl. 526-284.000.
Kirchhoff, Robert A.; and Gilpin, Jo Ann, 4,661,193, Cl. 156-307.300.
Kirchhoff, Robert A.; and Hahn, Stephen F., 4,687,823, Cl. 526-284.000.
Kirkpatrick, Charles C., 4,708,858, Cl. 423-300.000.
Klein, Dieter H.; and Koenig, Raymond, 4,698,401, Cl. 525-489.000.
Kleschick, William A.; Vinogradoff, Anna P.; and Dunbar, Joseph E., 4,638,075, Cl. 558-5.000.
Kleschick, William A.; Vinogradoff, Anna P.; and Dunbar, Joseph E., 4,650,892, Cl. 558-5.000.
Klimpel, Richard R.; and Hansen, Robert D., 4,676,890, Cl. 209-166.000.
Klimpel, Richard R.; and Hansen, Robert D., 4,684,459, Cl. 209-166.000.
Klimpel, Richard R.; and Hansen, Robert D., 4,702,822, Cl. 209-166.000.
Knudsen, Arne K., 4,689,129, Cl. 204-157.410.
Kocsis, Deborah L., 4,712,617, Cl. 166-270.000.
Koenig, Raymond; Urscheler, Robert; and Klein, Dieter H., 4,661,568, Cl. 525-510.000.
Kolb, Gerald C.; and Regulski, Thomas W., 4,705,872, Cl. 549-448.000.
Koranek, David J., 4,659,835, Cl. 546-345.000.
Krohn, James V.; Heidner, Melvin J.; Pittman, Edward F.; and Roberts, Landon S., 4,704,265, Cl. 423-497.000.
Krueger, Robert T.; McReynolds, Kent B.; and Schletz, Jeffrey C.;, 4,666,469, Cl. 55-16.000.
Kruper, William J., Jr.; and Dellar, David V., 4,663,467, Cl. 549-229.000.
Kruper, William J., Jr., 4,668,832, Cl. 570-142.000.
Kuhn, E.; Boer, J. Den; and Thoen, J., 4,661,529, Cl. 521-137.000.
Lampton, Robert D., Jr.; and Hopkins, Thomas M., II, 4,683,076, Cl. 252-191.000.
Lancaster, Gerald M.; Kelley, David C.; Cramm, Russell H.; and Neywick, Charles V., 4,640,865, Cl. 428-421.000.
Lancaster, Gerald M.; and Kelley, David C., 4,660,354, Cl. 53-469.000
Lancaster, Gerald M.; and Mulford, Luis C., 4,671,992, Cl. 428-316.600.
Lancaster, Gerald M.; and Allen, James A., 4,678,713, Cl. 428-421.000.
Lane, George A.; and Rossow, Harold E., 4,637,888, Cl. 252-70.000.
Lane, George A.; and Rossow, Harold E., 4,690,769, Cl. 252-70.000.
Larsen, Eric R., 4,656,224, Cl. 525-40.000.
Laughner, Michael K., 4,687,851, Cl. 544-398.000.
Lee, John W.; and Moore, Eugene R., 4,668,738, Cl. 525-83.000.
Liang, Yola Y., 4,689,152, Cl. 210-649.000.
Lipp, Charles W., 4,679,733, Cl. 239-432.000.
Lipp, Charles W., 4,705,535, Cl. 48-77.000.
Little, Douglas J., 4,638,102, Cl. 568-724.000.
Liu, Ming-Biann, 4,643,807, Cl. 204-78.000.
Liu, Ming-Biann, 4,714,771, Cl. 558-102.000.
Louman, Hendrik W.; and Corbett, Peter J., 4,670,183, Cl. 252-301.350.
Luecke, Robert A.; and Gould, Gordon E., 4,643,927, Cl. 428-36.000.
MacWilliams, Dalton C.; and Beck, H. Nelson, 4,654,277, Cl. 428-704.000.
Malhotra, Sudarshan K.; and Evoy, Ingrid L., 4,661,144, Cl. 71-88.000.
Malhotra, Sudarshan K.; and Evoy, Ingrid L., 4,685,953, Cl. 71-86.000.
Malhotra, Sudarshan K.; and Evoy, Ingrid L., 4,692,183, Cl. 71-94.000.
Maria van Riet, Wilhelmus A., 4,637,189, Cl. 52-309.800.
Marino, Dean F.; Ryan, William E.; and Kamp, Arthur J., 4,638,168, Cl. 250-560.000.
Marks, Maurice J.; Porter, James R.; and Plepys, Raymond A., 4,654,443, Cl. 564-305.000.
Marks, Maurice J.; and Plepys, Raymond A., 4,658,007, Cl. 528-55.000.
Martin, Charles W.; Ezzell, Bobby R.; and Weaver, John D., 4,661,411, Cl. 428-421.000.
Mathur, Indresh; and Gopal, Ram, 4,670,122, Cl. 204-252.000.
McCreedy, Kathleen M.; Keskkula, Henno; Pawloski, James C.; and Yonkers, Edward H., 4,678,833, Cl. 525-66.000.
McCullough, Francis P., Jr.; and Hall, David M., 4,643,931, Cl 428-97.000.
McFadden, Russell T., 4,654,398, Cl. 524-512.000.
McFadden, Russell T.; Grilli, David A.; and Hunt, William R., 4,670,512, Cl. 525-223.000.
McIlhenny, William F., 4,689,133, Cl. 204-269.000.
McIntyre, John M.; Birdwell, Jeffrey D.; and Smith, Bruce R., 4,654,104, Cl. 156-276.000.
McKendry, Lennon H.; and Krauss, Richard C., 4,645,852, Cl 558-49.000.
McKinney, Osborne K.; Allen, James A.; and Flores, David P., 4,678,836, Cl. 525-221.000.
McLachlan, Richard D.; and Chrisman, Ray W., 4,643,573, Cl 356-338.000.
McLachlan, Richard D.; and Rothman, Leslie D., 4,707,134, Cl 356-342.000.
Mendoza, Abel, 4,654,447, Cl. 568-730.000.
Mendoza, Abel, 4,684,752, Cl. 568-779.000.
Mendoza, Abel; and Otterbacher, Eric W., 4,691,042, C 560-61.000.
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Miller, Robert H., 4,666,950, Cl. 521-134.000.
Miller, Theodore E., Jr.; and Iskandarani, Ziad, 4,679,428, C 73-61.10C.
Mobley, Larry W.; and Kelley, Don H., 4,696,849, Cl. 428-95.00
Moore, Eugene R.; and Goodman, Jon T., 4,704,330, C 428-407.000.
Moore, Stanley E., 4,684,619, Cl. 502-330.000.
Moriarty, James W., Jr., 4,668,571, Cl. 428-327.000.
Morris, Gregory J. E.; and Grosshandler, Sandor, 4,654,134, C 204-252.000.
Morris, Gregory J. E.; Grosshandler, Sandor; Beaver, Richard Pimlott, John R.; and Dang, Hiep D., 4,673,479, Cl. 204-279.00
Morris, Gregory J. E.; and Newton, H. Gene, 4,698,143, C 204-253.000.
Morris, Gregory J. E., 4,705,614, Cl. 204-257.000.
Morris, Thomas E.; and Snedecor, Tarver G., Jr., 4,647,210, C 356-410.000.
Mullins, Michael J., 4,701,549, Cl. 560-159.000.
Murphy, Frank H., 4,703,123, Cl. 546-345.000.
Myers, Michael O., 4,686,276, Cl. 528-371.000.
Nace, Vaughn M., 4,657,949, Cl. 523-137.000.
Najvar, Daniel J.; Pope, Brian G.; and Loeffler, Norman R. 4,714,722, Cl. 523-218.000.
Neil, Lawrence E., 4,696,982, Cl. 525-507.000.
Neill, Paul L.; Bryce, Kenneth L.; and Lancaster, Gerald M. 4,666,988, Cl. 525-196.000.
Nelb, Robert G., II; Onder, Kemal; Rausch, Karl W.; and Vande lip, John A., 4,672,094, Cl. 525-440.000.
Newman, Ritchey O.; and Finlayson, Steven E., 4,659,412, C 156-322.000.
Noding, Stephen A., 4,652,355, Cl. 204-252.000.
Noding, Stephen A., 4,659,441, Cl. 204-59.00R.
Noding, Stephen A., 4,661,565, Cl. 525-437.000.
Noding, Stephen A., 4,689,123, Cl. 204-59.00R.
Noding, Stephen A., 4,689,124, Cl. 204-78.000.
Noding, Stephen A., 4,705,564, Cl. 75-120.000.
Norman, Seth I.; and O'Brien, Kathleen F., 4,666,721, C 426-271.000.
Novak, Leo R.; and Milligan, Dennis J., 4,634,506, Cl. 204-80.00
Novak, Leo R.; Kelley, David C.; and Lau, Philip Y., 4,668,743, C 525-356.000.
Olson, Robert S., 4,714,604, Cl. 423-488.000.
Orvik, Jon A.; and Dietsche, Thomas J., 4,705,859, Cl. 546-345.00
Otte, Joseph A. N.; and Liebman, Dennis, 4,657,731, C 376-313.000.
Park, Chung P., 4,640,933, Cl. 521-94.000.
Park, Chung P., 4,652,588, Cl. 521-96.000.
Park, Chung P., 4,661,302, Cl. 264-53.000.
Park, Chung P.; and Garcia, Gerald A., 4,663,360, Cl. 521-86.00
Park, Chung P., 4,663,361, Cl. 521-94.000.
Park, Chung P.; and Garcia, Gerald A., 4,681,715, Cl. 264-53.00
Park, Chung P., 4,694,025, Cl. 521-88.000.
Park, Chung P., 4,694,026, Cl. 521-94.000.
Park, Chung P., 4,694,027, Cl. 521-94.000.
Park, Chung P., 4,705,811, Cl. 521-88.000.
Park, Chung P., 4,714,716, Cl. 521-80.000.
Parker, Theodore L.; and Martin, Patrick H., 4,661,578, C 528-98.000.
Parker, Theodore L., 4,701,512, Cl. 528-45.000.
Parker, Theodore L., 4,716,204, Cl. 525-504.000.
Pawloski, Chester E.; and Kruper, William J., Jr., 4,668,710, C 521-171.000.
Pawloski, Chester E.; Wampfler, David J.; and Fielding, Donna J. 4,68[illegible],241, Cl. 521-107.000.
Pearson, Norman R.; and Kleschick, William A., 4,685,958, C 71-93.000.
Peffley, Richard D.; Spells, John H.; and Vanderhider, James A. 4,689,356, Cl. 521-159.000.
Peters, Bruce C.; Mayes, M. Dale; Gross, Richard M.; and Pearson Stanley R., 4,653,677, Cl. 222-591.000.
Peters, Thomas L.; and Stevens, Timothy S., 4,684,470, C 210-639.000.
Petersen, Wayne E., Jr., 4,658,645, Cl. 73-189.000.
Phillips, Gary C., 4,661,258, Cl. 210-661.000.

Pierce, Richard A.; and Wilson, David A., 4,643,839, Cl. 252-75.000.
Pierce, Richard A.; and Masterson, Tipton T., 4,704,415, Cl. 524-8.000.
Pihlaja, Roger K., 4,649,735, Cl. 73-12.000.
Pimlott, John R.; Beaver, Richard N.; Dang, Hiep D.; and Morris, Gregory J. E., 4,668,371, Cl. 204-253.000.
Pimlott, John R.; Beaver, Richard N.; Dang, Hiep D.; and Morris, Gregory J. E., 4,670,123, Cl. 204-279.000.
Pimlott, John R., 4,713,162, Cl. 204-254.000.
Plowman, Keith R.; and Goldsmith, Charles E., 4,659,528, Cl. 264-49.000.
Pope, Brian G., 4,650,908, Cl. 568-427.000.
Priddy, Duane B., 4,647,632, Cl. 526-88.000.
Prier, Donald G., 4,634,743, Cl. 525-462.000.
Pritchard, James R.; and Regelman, Dale F., 4,696,954, Cl. 521-167.000.
Prueter, Elton D., 4,655,481, Cl. 285-24.000.
Randall, Osro W., III; Kernstock, John M.; Hanlon, Nicholas S.; and Erickson, Stephen H., 4,654,247, Cl. 428-95.000.
Reeder, Alfred R., Jr.; Lovett, Joe B.; and Archer, Barry W., 4,661,227, Cl. 204-186.000.
Reese, Norman W., 4,705,138, Cl. 181-212.000.
Regelman, Dale F., 4,661,627, Cl. 560-352.000.
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Reierson, Robert L.; and Rabold, Gary P., 4,659,861, Cl. 558-448.000.
Reifschneider, Walter, 4,654,329, Cl. 514-86.000.
Relenyi, Attila G., 4,661,344, Cl. 424-79.000.
Renga, James M., 4,642,349, Cl. 546-302.000.
Renga, James M.; and Wang, Pen-Chung, 4,656,284, Cl. 546-290.000.
Renga, James M., 4,658,041, Cl. 549-229.000.
Rickle, Gregory K., 4,673,755, Cl. 556-489.000.
Riley, Elizabeth; and Petersen, Wayne E., 4,658,554, Cl. 52-309.800.
Riley, Elizabeth; and Petersen, Wayne E., 4,712,349, Cl. 52-408.000.
Robbins, Lanny A., 4,713,089, Cl. 55-52.000.
Rogers, Richard B.; and Herrero, Maria P., 4,636,514, Cl. 514-340.000.
Rogers, Richard B.; and Gerwick, B. Clifford, III, 4,642,338, Cl. 534-558.000.
Rogers, Richard B.; and Goring, Cleve A. L., 4,684,394, Cl. 71-90.000.
Rogers, Richard B.; and Goring, Cleve A. L., 4,685,959, Cl. 71-94.000.
Rogers, Richard B.; and Herrero, Maria P., 4,701,207, Cl. 71-92.000.
Rogers, Richard B.; and Herrero, Maria P., 4,701,463, Cl. 514-333.000.
Rogers, Richard B.; and Herrero, Maria P., 4,716,174, Cl. 514-340.000.
Roodvoets, David L., 4,677,800, Cl. 52-309.120.
Rubens, Louis C.; Alexander, Willard E.; and Raeck, Carl A., 4,693,856, Cl. 264-45.400.
Rubens, Louis C.; and Alexander, Willard E., 4,713,927, Cl. 53-472.000.
Rulf, Donald C.; and North, Edwin R., 4,674,323, Cl. 73-61.10C.
Russell, Robert J., 4,659,776, Cl. 525-95.000.
Sablatura, Edward F., 4,646,968, Cl. 239-10.000.
Schmidt, Donald L.; and McEwen, Gerald K., 4,658,003, Cl. 526-278.000.
Scott, Laurie J.; Erickson, Robert E.; and Wallace, Theodore C., 4,649,164, Cl. 521-149.000.
Seiss, Randolph H.; and Yonkers, Edward H., 4,716,197, Cl. 525-75.000.
Sexton, Diane, 4,713,137, Cl. 156-233.000.
Shabrang, Mani, 4,707,224, Cl. 204-1.00T.
Shaw, Ken M.; Wessling, Ritchie A.; Yats, Larry D.; and Yalvac, Selim, 4,643,940, Cl. 428-308.400.
Siegel, Sanford A., 4,654,390, Cl. 524-296.000.
Siegel, Sanford A.; and Noding, Stephen A., 4,714,665, Cl. 429-192.000.
Silvis, H. Craig; Berman, Jody R.; and White, Jerry E., 4,647,648, Cl. 528-102.000.
Silvis, H. Craig; and Morgan, Ted A., 4,672,102, Cl. 528-97.000.
Silvis, Harry C.; and Mendoza, Abel, 4,661,644, Cl. 568-723.000.
Skach, Edward J., Jr.; Brake, David W.; and Waibel, Joseph H., 4,708,737, Cl. 75-58.000.
Small, Hamish; and Mani, Inder, 4,705,636, Cl. 210-638.000.
Smith, David A.; and Geiger, Herbert B., 4,647,031, Cl. 271-82.000.
Smith, David A.; and Geiger, Herbert B., 4,702,471, Cl. 271-284.000.
Snipes, Carl E.; and Coleman, John S., 4,696,817, Cl. 424-123.000.
Snoble, Karel A. J., 4,655,975, Cl. 260-503.000.
Snyder, Kenneth L., Jr.; and Evani, Syamalarao, 4,702,854, Cl. 252-75.000.
Sobieralski, Theodore J., 4,640,712, Cl. 75-251.000.
Soderquist, Mark E.; Muthyala, Ramaiah; Larson, William A.; and Doty, Peter A., 4,640,786, Cl. 252-8.551.
Solc, Jitka, 4,677,142, Cl. 523-206.000.
Solc, Jitka, 4,680,200, Cl. 427-213.340.
Stanley, Frederick W., Jr.; Lamphere, Jack C.; and Chonde, Yohannes, 4,708,997, Cl. 526-207.000.
Stephens, Keith E.; and Uzee, Andre J., 4,707,522, Cl. 525-334.100.
Stevens, James C.; and Fordyce, William A., 4,695,669, Cl. 585-511.000.
Stevens, Michael G.; and Davis, Rhetta Q., 4,636,541, Cl. 523-404.000.
Stevens, Timothy S.; and Small, Hamish, 4,696,904, Cl. 436-39.000.
Stobby, William G., 4,661,533, Cl. 521-122.000.
Stuart, Glenn A., 4,685,420, Cl. 119-1.000.
Stuart, Van I. W.; and Priddy, Duane B., 4,704,431, Cl. 525-75.000.
Suh, Kyung W.; and Kennedy, John M., 4,636,527, Cl. 521-79.000.
Swearingen, Loren L.; Earls, Jimmy D.; and LaTulip, Randy J., 4,647,616, Cl. 524-600.000.
Swearingen, Loren L.; Earls, Jimmy D.; and LaTulip, Randy J., 4,668,767, Cl. 528-341.000.
Swearingen, Loren L.; Earls, Jimmy D.; and LaTulip, Randy J., 4,684,693, Cl. 524-600.000.
Swearingen, Loren L.; Embrey, Wallace E.; LaTulip, Randy J.; Earls, Jim D.; and McConchie, Garnet E., 4,701,529, Cl. 546-251.000.
Swearingen, Loren L.; and LaTulip, Randy J., 4,701,530, Cl. 546-251.000.
Tabor, Ricky L.; and Allen, James A., 4,684,576, Cl. 428-441.000.
Thornton, David C.; and McKinley, Mark J., 4,693,830, Cl. 210-734.000.
Timm, Edward E., 4,666,673, Cl. 422-135.000.
Tomalia, Donald A.; and Hall, Mark J., 4,690,985, Cl. 525-419.000.
Tomalia, Donald A.; and Kirchhoff, Pamela M., 4,694,064, Cl. 528-332.000.
Tomalia, Donald A.; and Wilson, Larry R., 4,713,975, Cl. 73-865.800.
Treptow, Warren L.; Hyun, Kun S.; and Park, Chung P., 4,689,355, Cl. 521-154.000.
Treybig, Duane S., 4,654,414, Cl. 528-336.000.
Treybig, Duane S., 4,668,766, Cl. 528-336.000.
Treybig, Duane S., 4,676,834, Cl. 106-14.150.
Treybig, Duane S., 4,680,347, Cl. 525-519.000.
Trimmer, Johnny L., 4,652,373, Cl. 210-321.100.
Tse, Ming K., 4,662,228, Cl. 73-842.000.
Turner, Robert B.; Peffley, Richard D.; and Vanderhider, James A., 4,642,320, Cl. 521-176.000.
Turner, Robert B.; Peffley, Richard D.; Plepys, Raymond A.; Priester, Ralph D.; Gonzales, Manuel, Jr.; and Bushman, Kimbley A., 4,686,242, Cl. 521-137.000.
Turner, Robert B., 4,701,475, Cl. 521-137.000.
van der Heijden, Lambertus P. P. M., 4,664,866, Cl. 264-519.000.
van Eijl, Ahazuerus T., 4,714,793, Cl. 585-4.000.
Van Herrtum, John C.; and Holmsen, Theodore W., 4,687,509, Cl. 71-121.000.
van Rooden, Bernardus J. M. S.; and Martinez, Jose L. T., 4,652,471, Cl. 427-411.000.
Vaughn, Walter L.; and Wing, Milton S., 4,661,634, Cl. 564-292.000.
Vaughn, Walter L., 4,687,824, Cl. 526-292.200.
Virkar, Anil; and Yuan, Thomas C., 4,678,761, Cl. 501-104.000.
Virkar, Anil V., 4,656,071, Cl. 428-36.000.
Virkar, Anil V., 4,677,009, Cl. 428-36.000.
Vivian, Thomas A., 4,645,617, Cl. 252-165.000.
Wagers, Kevin J., 4,683,015, Cl. 156-66.000.
Wainerdi, Thomas J., 4,657,651, Cl. 204-265.000.
Wainerdi, Thomas J., 4,698,144, Cl. 204-257.000.
Waldrum, John E., 4,662,565, Cl. 239-236.000.
Wallace, Theodore C.; and Kozakiewicz, Bernie A., 4,647,509, Cl. 428-474.900.
Wallace, Theodore C.; and Streif, Janet M., 4,676,936, Cl. 264-40.100.
Walles, Wilhelm E., 4,647,498, Cl. 428-288.000.
Wampfler, David J.; Fielding, Donna J.; and Pawloski, Chester E., 4,690,954, Cl. 521-107.000.
Wang, Chun S.; and Bogan, Gary W., 4,663,400, Cl. 525-481.000.
Wang, Chun S.; and Bowden, Robert L., 4,672,103, Cl. 528-98.000.
Wang, Chun S.; Chen, Wuu N.; Bowden, Robert L.; and Berman, Jody R., 4,684,700, Cl. 525-481.000.
Wang, Chun S.; Bowden, Robert L.; and Chen, Wuu N., 4,684,701, Cl. 525-507.000.
Wang, Chun S.; Liao, Zeng-kun; and Steele, Dennis L., 4,707,558, Cl. 568-23.000.
Wang, Pen C., 4,680,410, Cl. 548-231.000.
Wang, Pen C.; Stuart, Van I. W.; Yates, Ronald L.; and Crain, Steven P., 4,691,021, Cl. 548-309.000.
Wang, Pen-Chung, 4,634,787, Cl. 556-470.000.
Wang, Pen-Chung; and Renga, James M., 4,638,064, Cl. 544-54.000.
Wang, Pen-Chung; Wang, Chun S.; and Crain, Steven P., 4,672,101, Cl. 528-96.000.
Wang, Pen-Chung; and Crain, Steven P., 4,692,533, Cl. 548-312.000.
Waters, Donald D.; Fletcher, Thomas K.; and Krupp, Stephen P., 4,647,360, Cl. 204-296.000.
Webb, Daniel D.; and Prier, Donald G., 4,713,399, Cl. 521-110.000.
Weller, Joseph P., 4,692,431, Cl. 502-417.000.
Werner, John A.; Wilson, Charles A.; and Mixan, Craig E., 4,636,565, Cl. 546-345.000.
Wheeless, Michael R., 4,687,327, Cl. 356-70.000.
White, Mary L. N., 4,687,805, Cl. 524-569.000.
White, William L.; Ricciardelli, Karin L.; and Chaguturu, Munirathnam K., 4,704,161, Cl. 71-106.000.
Whitten, Charles E.; and Pews, R. Garth, 4,681,943, Cl. 546-306.000.

Williams, Janet C., 4,680,370, Cl. 528-167.000.
Wilson, Wilfred W., 4,707,355, Cl. 424-84.000.
Wing, Phillip L.; Jennings, James K.; and Lamb, Terry L., 4,657,790, Cl. 427-374.100.
Woo, Edmund P.; and Price, Diana R., 4,642,351, Cl. 548-317.000.
Woo, Edmund P.; and Laux, Joseph J., 4,667,050, Cl. 558-366.000.
Woo, Edmund P.; and Murray, Daniel J., 4,713,442, Cl. 528-422.000.
Wood, Clayton D.; Garrou, Philip E.; Kohatsu, Iwao; and Gleason, Edward F., 4,642,302, Cl. 502-332.000.
Wood, Clayton D.; and Gleason, Edward F., 4,666,881, Cl. 502-325.000.
Wood, Clayton D.; and Read, Arthur E., Jr., 4,686,314, Cl. 585-260.000.
Wright, Donald R., 4,640,080, Cl. 53-449.000.
Wu, Marinda L.; and Voeks, John F., 4,664,978, Cl. 428-409.000.
Wu, Marinda L., 4,666,468, Cl. 55-16.000.
Yats, Larry D.; and Wessling, Ritchie A., 4,654,100, Cl. 156-246.000.
Zachary, Richard E., 4,648,711, Cl. 356-44.000.
Zahm, Donald E.; and Strickler, Gary R., 4,713,601, Cl. 323-322.000.

Dow Chemical Handels-und Vertriebsgesellschaft mbH: *See*—
Quack, Wolfgang, 4,710,413, Cl. 428-36.000.

Dow Corning Corporation: *See*—
Alanko, Allan M.; and Atwell, William H., 4,659,374, Cl. 75-3.000.
Allen, Phillip R.; and Romig, Charles A., 4,652,624, Cl. 528-17.000.
Baile, Gnaneshwar R.; Crompton, Jane A.; and McMahon, Daniel F., 4,689,420, Cl. 556-460.000.
Bakken, Kathy L., 4,704,422, Cl. 524-375.000.
Baney, Ronald H.; and Bujalski, Duane R., 4,666,872, Cl. 501-88.000.
Bauman, Therese M.; and Freiberg, Alan L., 4,634,733, Cl. 524-859.000.
Bauman, Therese M.; and Freiberg, Alan L., 4,647,618, Cl. 524-859.000.
Beck, Earl W., 4,670,530, Cl. 528-15.000.
Beck, Earl W.; and Brady, Sam A., 4,686,271, Cl. 528-15.000.
Blatch, Pamela E., 4,669,181, Cl. 260-408.000.
Brady, Sam A.; Elias, Michael G.; and Freiberg, Alan L., 4,668,315, Cl. 156-71.000.
Broderick, Dennis W.; and Vincent, Harold L., 4,681,908, Cl. 524-268.000.
Bujalski, Duane R., 4,668,642, Cl. 501-88.000.
Bujalski, Duane R., 4,681,860, Cl. 501-88.000.
Chaffee, Roger G.; and Stebleton, Leo F., 4,687,829, Cl. 528-17.000.
Cornelius, David J.; and Przybyla, Richard L., 4,677,141, Cl. 523-203.000.
Dennis, William E., 4,640,881, Cl. 430-106.600.
Dietlein, John E.; and Hampton, Thomas C., 4,686,244, Cl. 523-179.000.
Doornbos, Richard S., 4,713,230, Cl. 423-341.000.
Dosaj, Vishu D.; and Rauchholz, Alvin W., 4,680,096, Cl. 204-164.000.
Dosaj, Vishu D.; Oleson, John D.; and Bokerman, Gary N., 4,702,902, Cl. 423-350.000.
Finzel, William A., 4,654,236, Cl. 427-409.000.
Frisch, Eldon E., 4,686,973, Cl. 128-92.0YZ.
Gavin, John D., Jr.; and Meddaugh, Michael D., 4,678,376, Cl. 405-270.000.
Gornowicz, Gerald A.; and Lee, Chi-Long, 4,705,877, Cl. 556-422.000.
Gornowicz, Gerald A.; and Lee, Chi-Long, 4,705,878, Cl. 556-422.000.
Graiver, Daniel; and Kalinowski, Robert E., 4,710,405, Cl. 427-387.000.
Groenhof, Eugene D.; Romenesko, David J.; and Streu, Rick D., 4,640,792, Cl. 252-78.300.
Huebner, David J.; and Landis, Julie K., 4,661,556, Cl. 524-745.000.
Jakubczak, Eugene R., 4,651,717, Cl. 128-344.000.
Kasprzak, Kenneth A., 4,685,930, Cl. 8-139.100.
Kemcrer, Beverly K., 4,708,807, Cl. 252-8.600.
Klosowski, Jerome M.; Meddaugh, Michael D.; Sykes, Paul B.; and Wright, Antony P., 4,657,967, Cl. 524-860.000.
Kookootsedes, Gust J.; Reese, Herschel H.; Gutek, Beth L.; and Pretzer, Gale H., 4,701,017, Cl. 350-96.340.
Lamont, Peter; Monroe, Carl M.; and Skostins, Olgerts, 4,701,491, Cl. 524-493.000.
Lamont, Peter, 4,704,443, Cl. 528-18.000.
Lee, Chi-long; and Lutz, Michael A., 4,697,026, Cl. 556-418.000.
Lee, Chi-long; and Maxson, Myron T., 4,711,928, Cl. 524-860.000.
Lefler, Harold V., III, 4,681,808, Cl. 428-425.500.
Liles, Donald T.; and Speier, John L., 4,701,289, Cl. 264-8.000.
Lo, Peter Y. K.; Ziemelis, Maris J.; and Varaprath, Padmakumari J., 4,698,406, Cl. 528-12.000.
Lopes, William J.; and Klosowski, Jerome M., 4,681,714, Cl. 264-46.600.
Maxson, Myron T., 4,683,277, Cl. 528-21.000.
Maxson, Myron T., 4,709,001, Cl. 528-15.000.
Miller, Richard T.; Sukhman, Yefim P.; and Welker, Lynn C., 4,642,439, Cl. 219-121.0LN.
Miller, Richard T.; Sukhman, Yefim P.; and Welker, Lynn C., 4,652,721, Cl. 219-121.0LG.
Narula, Dipak; Be, Anh; and Zemanek, Charles P., 4,701,380, Cl. 428-447.000.
Pierce, David L.; and Wisniewski, Judy L., 4,662,357, Cl. 12 1.00R.
Plueddemann, Edwin P., 4,650,889, Cl. 556-421.000.
Plueddemann, Edwin P., 4,659,851, Cl. 556-431.000.
Plueddemann, Edwin P., 4,689,085, Cl. 106-287.140.
Plueddemann, Edwin P., 4,690,959, Cl. 523-213.000.
Skostins, Olgerts, 4,640,951, Cl. 524-266.000.
Spells, Sherwood; Warren, James R.; and Wieck, Ronald W., 4,695,185, Cl. 404-107.000.
Swihart, Terence J.; and Broderick, Dennis W., 4,677,147, C 524-268.000.
Sylvester, Judith M.; and Kimball, David J., 4,640,790, C 252-62.540.
Varaprath, Sudarsanan, 4,696,834, Cl. 437-223.000.
Woodard, John T.; and Metevia, Virgil L., 4,655,767, C 604-896.000.

Dow Corning GmbH: *See*—
Holinski, Ruediger, 4,663,060, Cl. 252-12.000.

Dow Corning Kabushiki Kaisha: *See*—
Aizawa, Koichi; Sewa, Shingo; and Nakahara, Hideki, 4,639,48 Cl. 524-588.000.

Dow Corning, Ltd.: *See*—
Adams, Graham; and Jones, Martin A., 4,690,688, Cl. 44-76.00
Hill, Michael P., 4,661,616, Cl. 560-050.000.
Naylor, Clifford; and Pocknell, David, 4,660,553, Cl. 128-156.00

Dow Corning Wright Corporation: *See*—
Brooks, John G., Jr.; and Spires, Walter P., Jr., 4,714,474, C 623-20.000.
Fichera, Alfred J.; and Chiarizzio, Samuel J., 4,714,477, C 623-22.000.

Dow, Julian; and Meyers, Paul F., to Technicare Corporation. Ult sonic transducer probe drive mechanism with position sense 4,649,925, 3-17-87, Cl. 128-660.000.

Dow, Thurman: *See*—
Ring, David F.; Nashed, Wilson; and Dow, Thurman, 4,655,7 Cl. 604-374.000.

Dowa Iron Powder Co., Ltd.: *See*—
Omori, Shigeru; Watanabe, Masatsugu; and Oboshi, Fum 4,655,832, Cl. 106-1.180.
Omori, Shigeru; Watanabe, Masatsugu; and Oboshi, Fum 4,714,622, Cl. 427-11.000.

Dowa Mining Co., Ltd.: *See*—
Hashimoto, Shoji, 4,673,597, Cl. 427-374.400.

Dowbenko, Rostyslaw; Singer, Debra L.; Blackburn, William P.; Williams, Frank C., Jr., to PPG Industries, Inc. Compositions b on silicon-containing resins having hydrolyzable groups. 4,652,6 3-24-87, Cl. 525-100.000.

Dowbenko, Rostyslaw: *See*—
Das, Suryya K.; and Dowbenko, Rostyslaw, 4,639,394, C 428-327.000.
Simpson, Dennis A.; Singer, Debra L.; Dowbenko, Rostyslaw Blackburn, William P.; and Kania, Charles M., 4,650,718, C 428-413.000.
Simpson, Dennis A.; Singer, Debra L.; Dowbenko, Rostyslaw Blackburn, William P.; and Kania, Charles M., 4,681,811, C 428-413.000.
Singer, Debra L.; and Dowbenko, Rostyslaw, 4,652,664, C 556-427.000.
Singer, Debra L.; Birkmeyer, William J.; Dowbenko, Rostyslaw and Kania, Charles M., 4,690,980, Cl. 525-286.000.
Singer, Debra L.; Dowbenko, Rostyslaw; and Simpson, Dennis A. 4,703,101, Cl. 528-87.000.

Dowd, Kenneth D.: *See*—
Freed, Edward E.; and Dowd, Kenneth D., 4,658,986, C 222-52.000.

Dowd, Paul; Kaufman, Christopher; and Abeles, Robert H., to University of Pittsburgh. Cyclopropanone hydrate derivatives. 4,714,7 12-22-87, Cl. 562-506.000.

Dowdall, Dennis S., to Telektron Limited. Valve actuator. 4,651,96 3-24-87, Cl. 251-14.000.

Dowden, Douglas C.: *See*—
Collins, Johnny; Cooper, Michael H.; Dowden, Douglas C.; Gill Raymond J.; and Zola, Meyer J., 4,656,624, Cl. 370-60.000.

Dowden, Paul J., to DRG (UK) Limited. Rail car tipplers and tipp installations. 4,685,851, 8-11-87, Cl. 414-361.000.

Dowden, Paul J.: *See*—
Evans, David A.; and Dowden, Paul J., 4,671,725, Cl. 414-137.00

Dowden, Peter B.: *See*—
Sugden, David B.; Cass, David T.; Dowden, Peter B.; and Hyn Nicholas A., 4,646,853, Cl. 175-94.000.

Dowding, John G.: *See*—
Calverley, Simon G.; Carter, David C. M.; Clarke, Peter A. Dowding, John G.; Hawkins, David M.; and Mitchell, Robert J. C. S., 4,690,604, Cl. 414-403.000.

Dowds, Henry M., to Traulsen & Co., Inc. Baker's dough proofing and raising unit. 4,635,540, 1-13-87, Cl. 99-468.000.

Dowe, David R., to Eastman Kodak Company. Multidome multistage switch assembly. 4,659,881, 4-21-87, Cl. 200-5.00R.

Dowell, James R.; and Laube, Paul R. Camouflage knitted article 4,671,988, 6-9-87, Cl. 428-226.000.

Dowell, Robert I.: *See*—
Briggs, Malcolm T.; Dowell, Robert I.; and Thornber, Craig W. 4,711,887, Cl. 514-247.000.
Brown, David; Dowell, Robert I.; Hargreaves, Rodney B.; and Main, Brian G., 4,683,232, Cl. 514-228.000.

- Dowell Schlumberger Incorporated: *See—*
  - Bannister, Charles E., 4,646,834, Cl. 166-291.000.
  - Bannister, Charles E., 4,681,165, Cl. 166-312.000.
  - Baranet, Sandra E.; Hodge, Richard M.; and Kucera, Clare H., 4,686,052, Cl. 252-8.551.
  - Basinsky, Michael J.; Bird, Dale T.; and Smith, Daniel W., 4,638,971, Cl. 248-678.000.
  - Bissonnette, Harold S., 4,669,541, Cl. 166-154.000.
  - Bruckdorfer, Roderick A.; and Coleman, Samuel E., 4,635,724, Cl. 166-268.000.
  - Busine, Paul H.; and Dancer, Paul, 4,705,459, Cl. 417-53.000.
  - Cameron, Donald C., 4,659,115, Cl. 285-12.000.
  - Cameron, Donald C., 4,659,116, Cl. 285-27.000.
  - Cameron, Donald C.; and Shireman, Paul M., 4,687,421, Cl. 417-296.000.
  - Crowe, Curtis W., 4,633,949, Cl. 166-279.000.
  - Frenier, Wayne W.; and Wilson, David A., 4,636,327, Cl. 252-87.000.
  - Hodge, Richard M., 4,657,080, Cl. 166-308.000.
  - Hodge, Richard M., 4,657,081, Cl. 166-308.000.
  - Kennedy, Weldon C., Jr., 4,637,899, Cl. 252-542.000.
  - Kubala, Gregory, 4,695,389, Cl. 252-8.553.
  - Kucera, Clare H., 4,683,068, Cl. 252-8.551.
  - Kucera, Clare H., 4,692,254, Cl. 252-8.551.
  - McGill, Howard L.; and Scranton, Joseph D., 4,660,637, Cl. 166-120.000.
  - McIntire, William R., 4,671,665, Cl. 366-40.000.
  - Nelson, Erik B., 4,691,774, Cl. 166-291.000.
  - Nimerick, Kenneth H., 4,669,544, Cl. 166-300.000.
  - Payne, Kathryn L., 4,702,848, Cl. 252-8.551.
  - Zingg, Warren M., 4,644,974, Cl. 138-44.000.
  - Zingg, Warren M.; and Welch, Larry D., 4,662,401, Cl. 137-824.000.
- Dowle, Michael D.: *See—*
  - Bays, David E.; Webb, Colin F.; and Dowle, Michael D., 4,650,810, Cl. 514-415.000.
  - Coates, Ian H.; Mills, Keith; Webb, Colin F.; Dowle, Michael D.; and Bays, David E., 4,636,521, Cl. 514-415.000.
  - Coates, Ian H.; Mills, Keith; Webb, Colin F.; Dowle, Michael D.; and Bays, David E., 4,672,067, Cl. 514-323.000.
- Dowling, Anthony R. Anti-snoring device. 4,644,330, 2-17-87, Cl. 340-575.000.
- Dowling, Donald J.: *See—*
  - Mazzagatti, Roy P.; and Dowling, Donald J., 4,692,706, Cl. 324-338.000.
- Dowling, Edward C.: *See—*
  - Chang, Paul S.; and Dowling, Edward C., 4,682,168, Cl. 340-825.650.
- Dowling, Steven: *See—*
  - Morris, Roy; and Dowling, Steven, 4,674,608, Cl. 188-290.000.
- Downer, James R.; Eisenhaure, David B.; Oberbeck, George; Bliamp-ts, Tim E.; and Hendrie, Susan D., to Charles Stark Draper Labora-ory, Inc., The. Magnetic suspension system. 4,700,094, 10-13-87, Cl. 310-90.500.
- Downes, James E.: *See—*
  - Nathan, Vaidy R.; Wang, John T.; and Downes, James E., 4,690,809, Cl. 423-306.000.
- Downes, Richard T.: *See—*
  - Nohren, John E., Jr.; and Downes, Richard T., 4,695,379, Cl. 210-282.000.
- Downey, Donald R.; and Witten, Donald W., to Nordam. System for joining two adjacent building structures. 4,655,012, 4-7-87, Cl. 52-79.800.
- Downey, Emil: *See—*
  - Nicoletta, Roger A.; and Downey, Emil, 4,715,639, Cl. 294-99.200.
- Downey, Raymond E., to Goodyear Tire & Rubber Company, The. Photocurable polyvinyl chloride composition. 4,634,562, 1-6-87, Cl. 264-22.000.
- Downey, William. Implement for evacuating the contents of drainable stomy pouches. 4,642,106, 2-10-87, Cl. 604-332.000.
- Downey, William J.; Brauer, Melvin; and Chao, Jerry C., to CasChem, Inc. Ester plasticizers for polyurethane compositions. 4,666,968, 5-19-87, Cl. 524-296.000.
- Downey, William J.; Brauer, Melvin; and Chao, Jerry C., to CasChem, Inc. Process for using ester plasticized polyurethanes for sealing electrical devices. 4,705,724, 11-10-87, Cl. 428-375.000.
- owney, William J.: *See—*
  - Brauer, Melvin; Downey, William J.; and Naughton, Frank C., 4,666,969, Cl. 524-310.000.
  - Brauer, Melvin; Downey, William J.; and Naughton, Frank C., 4,705,723, Cl. 428-375.000.
- wnham, David, to Leslie Hartridge Limited. Press incorporating ailey system. 4,694,671, 9-22-87, Cl. 72-26.000.
- wning, Deborah L.; and Carnegis, Nicholas P. Seat belt. 4,706,992, 11-17-87, Cl. 280-801.000.
- wning, Donald M. Upright golf bag support. 4,645,152, 2-24-87, Cl. 48-96.000.
- wning, Edgar W. Crab pot construction. 4,706,409, 11-17-87, Cl. 3-102.000.
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- wning, Gene; and Kozuma, Glen, to Vada Systems, Inc. Machine ent processing system. 4,689,757, 8-25-87, Cl. 364-550.000.
- wning, James H.: *See—*
  - Lee, Young E.; Downing, James H.; and Kaiser, Robert H., 4,684,403, Cl. 75-80.000.
- Downing, Paul A.: *See—*
  - Casey, Frank; and Downing, Paul A., 4,693,803, Cl. 204-298.000.
- Downing, Philip A., to TRW Cam Gears Limited. Rack and pinion gear and a method of assembling such a gear. 4,680,981, 7-21-87, Cl. 74-422.000.
- Downing, Robert A.; and Hansen, Lorin K., to Xerox Corporation. System and method for monitoring and maintaining concentrate material in a fluid carrier. 4,660,152, 4-21-87, Cl. 364-509.000.
- Downing, Ronald W.: *See—*
  - Downing, Elizabeth A.; and Downing, Ronald W., 4,684,246, Cl. 356-124.000.
- Downing, V. Daniel: *See—*
  - Diekman, Robert L.; and Downing, V. Daniel, 4,648,616, Cl. 280-281.00R.
- Downs, Arthur R.; and Downs, Theresa L. Flower garden. 4,654,011, 3-31-87, Cl. 434-276.000.
- Downs, Daniel C.: *See—*
  - Joannou, Kyriacos; and Downs, Daniel C., 4,685,013, Cl. 360-121.000.
- Downs, David A.; and Tecle, Haile, to Warner-Lambert Company. Diphenylmethylene piperidines, compositions and use. 4,640,925, 2-3-87, Cl. 514-331.000.
- Downs, David A.; and Tecle, Haile, to Warner-Lambert Company. Diphenylmethylene piperidines compositions and methods for their use. 4,666,905, 5-19-87, Cl. 514-222.000.
- Downs, David A.: *See—*
  - Bergmeier, Stephen C.; Downs, David A.; Moos, Walter H.; Moreland, David W.; and Tecle, Haile, 4,710,508, Cl. 514-357.000.
- Downs, John D.; Drury, Raymond L., Jr.; Moser, Kenneth B.; and Roth, C. Deane, to A. E. Staley Manufacturing Company. Glycoside-containing polyester preparation process. 4,713,436, 12-15-87, Cl. 528-295.300.
- Downs, Kenneth L.: *See—*
  - Barito, Robert W.; and Downs, Kenneth L., 4,636,415, Cl. 428-68.000.
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- Downs, Robert C., to General Motors Corporation. Torque transmitting device having a fluid-operated piston. 4,664,242, 5-12-87, Cl. 192-106.00F.
- Downs, Robert C.; Nitz, Larry T.; Reichert, Frederick K.; and Wanamaker, Joseph L., to General Motors Corporation. Clutch-to-clutch coast downshifting in a motor vehicle automatic transmission. 4,671,139, 6-9-87, Cl. 74-866.000.
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- Downs, Theresa L.: *See—*
  - Downs, Arthur R.; and Downs, Theresa L., 4,654,011, Cl. 434-276.000.
- Dowty Decoto, Inc.: *See—*
  - Gellerson, Walter G., 4,655,245, Cl. 137-493.000.
- Dowty Fuel Systems Limited: *See—*
  - Andrews, David K.; Benson, Trevor P.; and Smart, Michael W., 4,655,049, Cl. 62-172.000.
  - Marr, Douglas S. B., 4,663,033, Cl. 210-108.000.
  - Masterman, John M., 4,704,552, Cl. 310-148.000.
- Dowty Hydraulic Units Limited: *See—*
  - Bick, David E., 4,650,038, Cl. 188-62.000.
- Dowty Mining Equipment Limited: *See—*
  - Radmall, Paul, 4,636,306, Cl. 210-108.000.
- Dowty Seals Limited: *See—*
  - Oseman, Gavin S., 4,702,482, Cl. 277-165.000.
  - Stanley, Clive J., 4,635,946, Cl. 277-134.000.
- Dowty and Smiths Industries Controls Limited: *See—*
  - Saunders, Arthur F.; and Eccles, Edward S., 4,716,531, Cl. 364-431.020.
- Dox-al Italia S.p.A.: *See—*
  - Grabitz, Ernst B.; and Veneroni, Flavio, 4,677,073, Cl. 435-256.000.
  - Grabitz, Ernst B., 4,701,331, Cl. 426-302.000.
- Doy, Ralph J.: *See—*
  - Andrew, Sydney P.; Doy, Ralph J.; and Limbach, Antony P. J., 4,690,690, Cl. 48-214.00A.
- Doyen, Daniel; and Vriz, Tarcisio, to U.S. Philips Corporation. Microwave oscillator comprising a dielectric resonator insensitive to mechanical vibrations. 4,710,729, 12-1-87, Cl. 331-96.000.
- Doyen, Gerard, to Alsthom. Hinge and sectional panels on a frame enabling assembly and disassembly thereof. 4,694,533, 9-22-87, Cl. 16-257.000.
- Doyen, Rene H., to Mobil Oil Corporation. Good machineability film structure. 4,654,252, 3-31-87, Cl. 428-213.000.
- Doyle, Arthur F.; and Sklarski, Dennis J., to Essex Group, Inc. Method of making high density moisture resistant mica sheet. 4,707,209, 11-17-87, Cl. 156-307.400.
- Doyle, Arthur F.: *See—*
  - Sklarski, Dennis J.; and Doyle, Arthur F., 4,637,852, Cl. 156-307.400.
  - Sklarski, Dennis J.; and Doyle, Arthur F., 4,683,162, Cl. 428-182.000.

Doyle, Brent R., to Harris Corporation. Circuit design technique to prevent current hogging when minimizing interconnect stripes by paralleling STL or ISL gate inputs. 4,682,057, 7-21-87, Cl. 307-459.000.
Doyle, Brian M.: *See—*
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Doyle, David W., to Texas Instruments Incorporated. Microstrip patch antenna system. 4,660,048, 4-21-87, Cl. 343-700.0MS.
Doyle, Donald E. Layman's nasal hemostat. 4,646,739, 3-3-87, Cl. 128-325.000.
Doyle, Edward J., to Conair Corporation. Travel iron having controlled heat and compact storage. 4,651,453, 3-24-87, Cl. 38-77.800.
Doyle, Francis S.; and France, Randall W., to American Telephone and Telegraph Company, AT&T Information Systems Inc. Telephone set line switch. 4,710,954, 12-1-87, Cl. 379-427.000.
Doyle, James H. Mass flow controller. 4,658,855, 4-21-87, Cl. 137-468.000.
Doyle, James H. Automatic calibrator. 4,667,153, 5-19-87, Cl. 324-130.000.
Doyle, James H. Automatic equalizer. 4,684,886, 8-4-87, Cl. 324-132.000.
Doyle, James H. Fluid mass flow controller. 4,687,020, 8-18-87, Cl. 137-486.000.
Doyle, James J.; and Lecheheb, Ammar, to Domino Printing Sciences PLC. Continuous ink jet printing. 4,688,049, 8-18-87, Cl. 346-1.100.
Doyle, James T., to Motorola, Inc. Method of electrically adjusting the zener knee of a lateral polysilicon zener diode. 4,646,427, 3-3-87, Cl. 29-586.000.
Doyle, John E., to FMC Corporation. Hinged strain cell mounting apparatus. 4,644,785, 2-24-87, Cl. 73-151.000.
Doyle, John J.: *See—*
Veres, James E.; Stein, James B.; Beauchamp, Robert W.; Kimmens, Harold R.; Baird, David W.; Roman, Michael J.; Therrien, David G.; and Doyle, John J., 4,654,783, Cl. 364-200.000.
Doyle, Joseph E., III, to Motorola, Inc. Data clock oscillator having accurate duty cycle. 4,710,730, 12-1-87, Cl. 331-116.0FE.
Doyle, Keith G.; and Lloyd, Roy A., to Lloyd Doyle Limited. Method and apparatus for inspecting printed wiring boards. 4,635,289, 1-6-87, Cl. 382-8.000.
Doyle, Mark: *See—*
Savit, Carl H.; Boone, Rhonda; and Doyle, Mark, 4,707,787, Cl. 364-420.000.
Doyle, Mark R.: *See—*
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Doyle, Michael J.: *See—*
Vavra, Randall J.; and Doyle, Michael J., 4,686,856, Cl. 73-204.000.
Doyle, Michael P.; Forte, Francis J.; and Galkowski, Edward, to Stewart-Warner Corporation. Swivel caster assembly and method of making. 4,707,880, 11-24-87, Cl. 16-38.000.
Doyle, Peter; and Whittle, Alan J., to Imperial Chemical Industries PLC. Insecticidal ester. 4,670,464, 6-2-87, Cl. 514-521.000.
Doyle, Ralph R., to Buehler Ltd. Microscope for examining the surface finish of fiber optic ends. 4,671,629, 6-9-87, Cl. 350-523.000.
Doyle, Ralph R., to Buehler Ltd. Abrasive slurry supply system for use in metallographic sample preparation. 4,678,119, 7-7-87, Cl. 239-9.000.
Doyle, Ralph R., to Buehler Ltd. Multiple optical fiber polishing apparatus. 4,693,035, 9-15-87, Cl. 51-125.000.
Doyle, Reba L. Pet carrier. 4,644,902, 2-24-87, Cl. 119-19.000.
Doyle, Terrence W.: *See—*
Kaneko, Takushi; Wong, Henry S. L.; and Doyle, Terrence W., 4,642,352, Cl. 548-422.000.
Vyas, Dolatrai M.; Chiang, Yulin; and Doyle, Terrence W., 4,691,023, Cl. 548-422.000.
Vyas, Dolatrai M.; Doyle, Terrence W.; and Chiang, Yulin, 4,692,538, Cl. 558-6.000.
Doyle, Thomas B.: *See—*
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Doyle, Walter M., to Laser Precision Corporation. Universal spectrometer system having modular sampling chamber. 4,657,390, 4-14-87, Cl. 356-346.000.
Doyle, Walter M.: *See—*
Hughes, Norman S.; and Doyle, Walter M., 4,640,617, Cl. 356-326.000.
Doyon, Andrea; Matte, Denis; and Brosseau, Jacques, to Les Industries Doyon LTEE. Cabinet-making. 4,676,038, 6-30-87, Cl. 52-282.000.
Dozier, Alfred R. Chemical vapor deposition reactor. 4,640,223, 2-3-87, Cl. 118-719.000.
Dozier, Harold W.: *See—*
Kimmel, Arthur T.; and Dozier, Harold W., 4,704,599, Cl. 340-333.000.
Dozsa, Otto L., to USG Corporation. Accelerator for gypsum plaster and process of manufacture. 4,681,644, 7-21-87, Cl. 156-39.000.
Dozzi, Giovanni, to Enichem Polimeri S.p.A. Self-extinguishing polycarbonate composition. 4,663,380, 5-5-87, Cl. 524-419.000.
Dozzi, Giovanni; Della Fortuna, Giorgio; and Cucinella, Salvatore, to Anic, S.p.A. Self-extinguishing polycarbonate composition. 4,710,531, 12-1-87, Cl. 524-239.000.
Dozzo, John J., to Duke Insulation Company, Inc. Support structure for roof insulation in metal buildings. 4,715,156, 12-29-87, Cl. 52-404.000.
Dr.Ing.h.c.F. Porsche Aktiengesellschaft: *See—*
Rutschmann, Erwin; Tran-Van, Khanh; and Wagner, Joachim, 4,709,552, Cl. 60-600.000.
Draai, Willem T.: *See—*
van Cooten, Robertus; Simons, Dick; Witteveen, Bontko; Draai, Willem T.; van Stiphout, Johannes G. V.; and Huijben, Martinus J., 4,704,621, Cl. 346-153.100.
Draaisma, Henricus J. G.: *See—*
den Broeder, Friedrich J. A., Draaisma, Henricus J. G.; and Kahle, Alexander, 4,678,721, Cl. 428-607.000.
Drabek, Jozef, to Ciba-Geigy Corporation. Use of 3-acylaminobenzisothiazoles for controlling pests. 4,698,358, 10-6-87, Cl. 514-373.000.
Drabek, Jozef: *See—*
Boger, Manfred; and Drabek, Jozef, 4,638,069, Cl. 546-300.000.
Boger, Manfred; Drabek, Jozef; and Neumann, Rainer, 4,656,183, Cl. 514-346.000.
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Sorm, Miloslav; Vacha, Jiri; Ulbert, Karel; Jagos, Frantisek; Nespurek, Stanislav; Langpaul, Josef; Skalicky, Stanislav; Kensa, Jaromir; Zvonicek, Miroslav; and Drabek, Oldrich, 4,646,969, Cl. 239-106.000.
Draber, Wilfried: *See—*
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Reiser, Wolf; Draber, Wilfried; Buchel, Karl H., Lurssen, Klaus; Frohberger, Paul-Ernst; and Paul, Volker, 4,647,302, Cl. 71-92.000.
Drabing, Richard B., to SMS Advanced Power, Inc. Switch-mode power supply. 4,713,740, 12-15-87, Cl. 363-17.000.
Drabowitch, Serge; Aubry, Claude; Casseau, Daniel; and Bouko, Jean, to Thomson-CSF. Antenna having two crossed cylindro-parabolic reflectors. 4,665,405, 5-12-87, Cl. 343-756.000.
Drabowitch, Serge; Aubry, Claude; and Casseau, Daniel, to Thomson-CSF. Method and apparatus for reducing the power of jamming signals received by radar antenna sidelobes. 4,672,378, 6-9-87, Cl. 342-17.000.
Drabowitch, Serge; Baril, Michel; and Le Parquier, Guy, to Thomson-CSF. Guided vehicle control process and apparatus. 4,713,663, 12-15-87, Cl. 342-70.000.
Drach, George W., to Kendall Company, The. Multi-size ureteral stent. 4,643,716, 2-17-87, Cl. 604-8.000.
Drach, George W., to Kendall Company, The. Catheter with expansible connector and method. 4,652,258, 3-24-87, Cl. 604-53.000.
Drach, George W.: *See—*
Rosenberg, Helmut W. G.; and Drach, George W., 4,692,149, Cl. 604-99.000.
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Lewis, John C., Jr., 4,684,283, Cl. 403-299.000.
Ludwig, Clifford J.; and Delia, Anthony D., 4,707,865, Cl. 4-228.000.
McElfresh, Mark W.; and Bellersen, Martin E., 4,660,231, Cl. 4-228.000.
Nichols, Charles; and Howard, John, 4,642,837, Cl. 15-171.000.
O'Neil, William J., Jr.; and Burkhart, Richard P., 4,654,920, Cl. 15-119.00A.
Requejo, Luz P., 4,689,168, Cl. 252-139.000.
Richards, Randall G., 4,709,423, Cl. 4-228.000.
Shaer, Elias H.; and Zembrodt, Anthony R., 4,666,625, Cl. 252-146.000.
Stopper, Howard R., 4,655,959, Cl. 252-305.000.
Drader, Clarence H. Process for welding thermoplastic by injection. 4,711,746, 12-8-87, Cl. 264-36.000.
Draeger, Erich, to Veglia. Probe for measuring the level of a liquid. 4,679,432, 7-14-87, Cl. 73-295.000.
Draenert, Klaus. Device and process for mixing and applying bone cement. 4,671,263, 6-9-87, Cl. 128-92.0VO.
Draenert, Klaus. Coating composition and anchorage component for surgical implants. 4,713,076, 12-15-87, Cl. 623-16.000.
Draft, Howard J.; and Chambers, Robert W. Face guard design. 4,689,835, 9-1-87, Cl. 2-424.000.
Draft, Roger A. Tank overfill valve. 4,667,711, 5-26-87, Cl. 141-198.000.
Draft Systems, Inc.: *See—*
Fallon, Merton R.; and Froehler, John, 4,674,756, Cl. 277-30.000.
Fallon, Timothy R.; and Smith, Jerry W., 4,666,109, Cl. 248-50.000.
Draftex Industries Limited: *See—*
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Bright, Robert G., 4,699,837, Cl. 428-122.000.
Gommier, Herve; and Lamblin, Jean-Michel, 4,708,898, Cl. 428-36.000.
Dragan, William B.; and Discko, John, Jr. Vascular dilating device. 4,654,027, 3-31-87, Cl. 604-99.000.
Dragan, William B. Device and method of bonding and veneering dental material to a tooth. 4,682,950, 7-28-87, Cl. 433-90.000.
Dragan, William B. Retainerless matrix band. 4,704,087, 11-3-87, Cl. 433-39.000.
Drage, David J., to Tegal Corporation. Dual wavelength sensor which employs object as part of a corner reflector. 4,697,089, 9-29-87, Cl. 250-561.000.
Drager, Hubert; and Lassle, Edwin, to Diehl GmbH & Co. Sliding switch. 4,654,493, 3-31-87, Cl. 200-302.100.
Drager, Norbert: *See—*
Drager, Uwe; and Drager, Norbert, 4,711,402, Cl. 241-101.200.
Drager, Uwe; and Drager, Norbert, to DET-Drager-Energie-Technik GmbH & Co. KG. Apparatus for reducing the size of and/or for

mixing solid, pasty and/or liquid material. 4,711,402, 12-8-87, Cl. 241-101.200.

Dragerwerk Aktiengesellscaft. *See—*
  Boord, Leslie F., 4,669,415, Cl. 116-70.000.
  Hagen, Werner; Lagois, Johannes; and Pruss, Dieter, 4,644,141, Cl. 219-543.000.
  Holscher, Uvo, 4,657,022, Cl. 128-635.000.
  Leichnitz, Kurt, 4,684,380, Cl. 55-274.000.
  Pannwitz, Karl-Heinz, 4,692,309, Cl. 422-87.000.
  Pasternack, Adalbert, 4,667,669, Cl. 128-204.230.
  Rohling, Holmer, 4,699,173, Cl. 137-614.200.
  Schnoor, Christian; and Diehl, Wolfgang, 4,667,667, Cl. 128-201.180.
  Slemmer, Janos; and Schroter, Gottfried, 4,694,825, Cl. 128-205.240.
  van der Smissen, Carl-Ernst, 4,636,485, Cl. 502-66.000.

Dragerwerk Aktiengesellschaft: *See—*
  Altner, Ulrich; Falb, Wolfgang; Ryschka, Martin; and Wallroth, Carl-Friedrich, 4,715,370, Cl. 128-204.130.
  Baum, Marcel, 4,637,386, Cl. 128-204.210.
  Falb, Wolfgang; Ryschka, Martin; and Wallroth, Carl-Friedrich, 4,693,853, Cl. 251-39.100.
  Haas, Hans, 4,715,371, Cl. 128-204.260.
  Hagen, Werner; and Lagois, Johannes, 4,654,624, Cl. 338-34.000.
  Holscher, Uvo, 4,647,363, Cl. 204-415.000.
  Holscher, Uvo, 4,681,115, Cl. 128-635.000.
  Koch, Jochim, 4,681,090, Cl. 128-1.00B.
  Kolbe, Ernst-Gunter; Weinmann, Hasso; Drews, Wolfgang; and Eckstein, Wolfgang, 4,665,910, Cl. 128-202.260.
  Lungu, Mihail; and Rogge, Bernd, 4,689,135, Cl. 204-415.000.
  Matthiessen, Hans, 4,663,958, Cl. 73-1.00G.
  Matthiessen, Hans; and Winkler, Jorg, 4,707,614, Cl. 250-576.000.
  Rogge, Bernd; Kaross, Klaus; Busack, Hans-Jurgen; and Lungu, Mihail, 4,663,959, Cl. 73-1.00G.
  van der Smissen, Carl-Ernst, 4,677,096, Cl. 502-417.000.
  von dem Hagen, Tronje; and Wallroth, Carl F., 4,651,730, Cl. 128-204.210.

Draggoo, Vaughn G., to Boeing Company, The. Modified involute flashlamp reflector. 4,641,315, 2-3-87, Cl. 372-72.000.

Draghicchio, Pietro, to Rockwell-Rimoldi S.p.A. Adjustable drive shaft for multi-head sewing machine. 4,641,591, 2-10-87, Cl. 112-155.000.

Draghici, Ionel: *See—*
  Axinti, Gavril; Arama, Stefanica; Draghici, Ionel; Bratu, Polidor; Stanciu, Corneliu; Ghinea, Aurelian; Badulescu, Florin; and Diaconu, Cristian, 4,688,468, Cl. 91-317.000.

Dragicevic, Nedo D. L.: *See—*
  De Angelis, Pedro C.; and Dragicevic, Nedo D. L., 4,715,458, Cl. 177-172.000.

Dragmen, Kenneth J., Sr., to Picker International, Inc. Patient support for radiation imaging. 4,715,591, 12-29-87, Cl. 269-322.000.

Drago, Gary A.; Baier, Walter F.; Lee, Francis C.; Mills, Ross N.; and Mossbrugger, Horst G., to International Business Machines. Drop-on-demand ink jet print head. 4,698,644, 10-6-87, Cl. 346-140.00R.

Drago, Raymond, to Boeing Company, The. High profile contact ratio, non-involute gear tooth form and method. 4,640,149, 2-3-87, Cl. 74-462.000.

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  Brunke, Ernst-Joachim; and Kappey, Claus-Hermann, 4,652,402, Cl. 252-522.00R.
  Brunke, Ernst-Joachim; and Struwe, Hartmut, 4,683,083, Cl. 252-522.00R.
  Brunke, Ernst-Joachim, and Struwe, Hartmut, 4,709,061, Cl. 549-544.000.

Dragone, Giorgio. Liquid-rebulizing device for the dermatological treatment of the hands. 4,670,010, 6-2-87, Cl. 604-289.000.

Dragone, Vincenzo, to Effe Elle S.p.A. Folding partition system composed of a series of adjacent panels. 4,667,724, 5-26-87, Cl. 160-229.00R.

Dragoo, Jerry L.: *See—*
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Dragoset, William H., Jr.; and Cumro, Dennis L., to Western Geophysical Co. of America. Method for determining the far-field signature of an air gun array. 4,658,384, 4-14-87, Cl. 367-23.000.

Dragsund, Inge; and Gjestrum, Einar, to Geophysical Company of Norway A.S. Float for use in seismic surveys of the sea bed. 4,716,553, 12-29-87, Cl. 367-15.000.

Dragsund, Inge: *See—*
  Gjestrum, Einar; Dragsund, Inge; Skog, Just; and Selvag, Svein, 4,686,660, Cl. 367-153.000.

Draheim, Harvey J.: *See—*
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Drain, James M., to D. L. West Manufacturing, Inc. Apparatus for removeably retaining sheet material. 4,693,443, 9-15-87, Cl. 248-447.100.

Drainas, Bill. Butter rolling device. 4,676,186, 6-30-87, Cl. 118-13.000.

Drake, Bick R.: *See—*
  Marabotto, Eduardo J.; Bresin, Mark S.; and Drake, Bick R., 4,714,439, Cl. 439-627.000.

Drake, Brian L.: *See—*
  Palazzolo, Faro D.; Drake, Brian L.; and Swanson, Ralph R., 4,683,801, Cl. 89-40.120.

Drake, Charles A.; and Reiter, Stephen E., to Phillips Petroleum Company. Process for the production of allyl acetate. 4,634,794, 1-6-87, Cl. 560-245.000.

Drake, Charles A., to Phillips Petroleum Company. Process for the production of allyl acetate. 4,647,690, 3-3-87, Cl. 560-245.000.

Drake, Charles A.; and Welch, M. Bruce, to Phillips Petroleum Company. Production of high (Z,Z) content 1,5,9-tetradecatriene. 4,654,461, 3-31-87, Cl. 585-600.000.

Drake, Charles A., to Phillips Petroleum Co. Potassium carbonate with carbon supports and catalysts with elemental alkali metal. 4,656,154, 4-7-87, Cl. 502-185.000.

Drake, Charles A.; and Kubicek, Donald H., to Phillips Petroleum Company. Potassium carbonate supports, catalysts and processes therewith. 4,661,466, 4-28-87, Cl. 502-184.000.

Drake, Charles A.; and Reusser, Robert E., to Phillips Petroleum Company. Acid-treated catalysts for olefin conversion and method for preparing the catalysts. 4,663,304, 5-5-87, Cl. 502-211.000.

Drake, Charles A., to Phillips Petroleum Company. Nickel-cerium oxide-zirconium oxide-silica catalysts for hydrogenation of succinic anhydride to butyrolactone. 4,668,654, 5-26-87, Cl. 502-242.000.

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Drake, Craig D.; and Jessen, Ross A., to Ring King Visibles, Inc. Printer stand. 4,703,919, 11-3-87, Cl. 248-677.000.

Drake, Cyril F., to Standard Telephones and Cables Public Limited Company. Water soluble compositions for preparing analytical solutions. 4,645,749, 2-24-87, Cl. 501-45.000.

Drake, Cyril F.; Pitt, Gilles D.; Arch, Alfred J.; and Neat, Rosamund C., to International Standard Electric Corporation. Glass article having renewable optical surfaces. 4,652,097, 3-24-87, Cl. 350-582.000.

Drake, Cyril F.; and Tripp, Mary, to STC plc. Rumen bolus. 4,662,879, 5-5-87, Cl. 604-892.000.

Drake, Cyril F.; and Brocklehurst, John R., to STC, plc. Therapeutic devices incorporating water soluble glass compositions. 4,678,659, 7-7-87, Cl. 424-451.000.

Drake, Donald J.; Hawkins, William G.; Markham, Roger G.; and LaDonna, Richard V., to Xerox Corporation. Printhead for an ink jet printer. 4,638,328, 1-20-87, Cl. 346-75.000.

Drake, Donald J.; Hawkins, William G.; and Campanelli, Michael R., to Xerox Corporation. Ink jet printhead with integral ink filter. 4,639,748, 1-27-87, Cl. 346-140.00R.

Drake, Donald J.; Campanelli, Michael R.; and Ims, Dale R., to Xerox Corporation. Selective application of adhesive and bonding process for ink jet printheads. 4,678,529, 7-7-87, Cl. 156-234.000.

Drake, Evelyn N.; and Calcavecchio, Peter, to Exxon Research & Engineering Company. Shear thickening composition with polycarboxylic acid. 4,663,366, 5-5-87, Cl. 523-130.000.

Drake, Evelyn N.: *See—*
  Duvdevani, Ilan; Manalastas, Pacifico V.; Drake, Evelyn N.; and Thaler, Warren A., 4,701,204, Cl. 71-28.000.
  Eustace, Daniel J.; Siano, Donald B.; Drake, Evelyn N.; and Calcavecchio, Peter, 4,683,953, Cl. 166-294.000.

Drake, George M., to Litton Systems, Inc. Interlock switch base plate assembly. 4,663,505, 5-5-87, Cl. 219-10.55C.

Drake, Harry N., to FMC Corporation. Fire-resistant hydraulic fluid. 4,645,615, 2-24-87, Cl. 252-78.500.

Drake, James A., to Westinghouse Electric Corp. Deep beam reactor vessel head and nuclear reactor including same. 4,654,185, 3-31-87, Cl. 376-205.000.

Drake, James C.: *See—*
  Allegra, Carmen; Drake, James C.; Chabner, Bruce A.; Masur, Henry; and Kovacs, Joseph A., 4,694,007, Cl. 514-260.000.

Drake, James F., to Minnesota Mining and Manufacturing Company. Method and kit for detecting antibiotics in a liquid sample. 4,686,182, 8-11-87, Cl. 435-24.000.

Drake, James F., Jr., to Minnesota Mining and Manufacturing Company. Ballistic projectile. 4,664,664, 5-12-87, Cl. 604-891.000.

Drake, James R., to Drake, James R.; and Stanciu, Ulrich. Hand sail. 4,651,665, 3-24-87, Cl. 114-39.000.

Drake, Robert C., to Dorman Products, Inc. Battery connection protector case. 4,698,459, 10-6-87, Cl. 174-138.00F.

Drake, Ronald N. Aqueous waste vitrification process and apparatus. 4,666,490, 5-19-87, Cl. 65-27.000.

Drake, Timothy E.: *See—*
  Beehler, David E.; Drake, Timothy E.; and Hawk, Timothy E., 4,696,357, Cl. 177-145.000.

Drake, Tom. Extension handles for hedge trimmers. 4,638,562, 1-27-87, Cl. 30-296.00R.

Drake, William J., to Ekard Industries. Combination brush and applicator unit. 4,636,102, 1-13-87, Cl. 401-190.000.

Dralle, Heinz: *See—*
  Muller, Josef; Wiersdorff, Walter-Wielant; Burst, Wolfram; Dralle, Heinz; Schaffner, Ernst; and Steinkamp, Rolf, 4,661,610, Cl. 558-344.000.

Draman, Dennis J. Mobile sludge transfer and storage tank. 4,660,602, 4-28-87, Cl. 137-899.400.

Dranchak, Matthew A.: *See—*
  Devins, John C.; Dranchak, Matthew A.; and Rzad, Stefan J., 4,694,375, Cl. 361-212.000.

Drane, John H., to Duracell Inc. Lamp. 4,711,107, 12-8-87, Cl. 70-233.000.

- Draney, Robert G.: *See—*
  - Kassner, Harry W.; Draney, Robert G.; and Youngers, Stephen A., 4,650,370, Cl. 405-183.000.
- Dransfeld, Klaus; and Heitmann, Knut, to Ernst Leitz Wetzlar GmbH. Method and apparatus for local selective detection and generation of polar structure alignments in microscopic object areas. 4,669,313, 6-2-87, Cl. 73-606.000.
- Drapatsky, Leonid: *See—*
  - Miller, Verelyn A., Jr.; Diener, Richard W.; and Drapatsky, Leonid, 4,661,828, Cl. 346-108.000.
- Drapeau, Donald F.; Moore, Benjamin N.; and Hall, Henry B., to Safeway Products, Inc. In-line electric heater for an aerosol delivery system. 4,682,010, 7-21-87, Cl. 219-381.000.
- Drapeau, Remi, to Les Enterprises Manuspec Inc. One-piece fastener for securing a lining element in a removable manner on a carrying surface. 4,635,424, 1-13-87, Cl. 52-480.000.
- Draper Corporation: *See—*
  - Tosches, Anthony J., 4,649,966, Cl. 139-450.000.
- Draper, David L., to Cars & Concepts, Inc. Conversion of vehicle bodies. 4,662,052, 5-5-87, Cl. 29-401.100.
- Draper, David L., to Cars & Concepts, Inc. Externally retractable sunroof assembly. 4,695,090, 9-22-87, Cl. 296-216.000.
- Draper, Don R.: *See—*
  - Brahm, David J.; Draper, Don R.; Edmonds, Christopher; and Grinn, James M., 4,654,820, Cl. 364-900.000.
- Draper, Francis R.; Francis, John H.; and Ogburn, Alan P., to Lucas Industries public limited company. Fuel pumping apparatus. 4,706,635, 11-17-87, Cl. 123-506.000.
- Draper, Reed T.; Pol, Kenneth J.; and Martin, Dennis R., to Draper Technologies, Inc. Coupon packet dispensing system. 4,690,303, 9-1-87, Cl. 221-131.000.
- Draper, Robert; and Lorentz, Donald G., to Westinghouse Electric Corp. Model steam generator having an improved feedwater system. 4,635,589, 1-13-87, Cl. 122-396.000.
- Draper, Robert; Lorentz, Donald G.; Baum, Allen J.; and Economy, George, to Westinghouse Electric Corp. Compact model steam generator having multiple primaries. 4,637,346, 1-20-87, Cl. 122-4.00A.
- Draper, Robert; and Smith, Edward H., to Westinghouse Electric Corp. Model steam generator. 4,640,233, 2-3-87, Cl. 122-488.000.
- Draper, Robert, to Westinghouse Electric Corp. Model steam generator having a thermosyphon heating means. 4,660,510, 4-28-87, Cl. 122-31.00R.
- Draper, Robert; Young, William E.; Spurrier, Francis R.; and Dilmore, James A., to Westinghouse Electric Corp. High thermal conductivity gas feeder system. 4,664,986, 5-12-87, Cl. 429-26.000.
- Draper Technologies, Inc.: *See—*
  - Draper, Reed T.; Pol, Kenneth J.; and Martin, Dennis R., 4,690,303, Cl. 221-131.000.
- Drapier, Albert: *See—*
  - Henault, Jean-Paul; Drapier, Albert; Grochowski, Guy; and Meslif, Alain, 4,677,939, Cl. 122-17.000.
- Drauz, Karlheinz; and Kleemann, Axel, to Degussa Aktiengesellschaft. Process for the production of non-aqueous hydrogen peroxide solutions and their use. 4,686,010, 8-11-87, Cl. 203-63.000.
- Drauz, Karlheinz; Kleemann, Axel; and Wolf-Heuss, Elisabeth, to Degussa Aktiengesellschaft. Process for the production of 3-oxonitriles. 4,716,237, 12-29-87, Cl. 549-72.000.
- Drauz, Karlheinz: *See—*
  - Effenberger, Franz; Kuhlwein, Jurgen; and Drauz, Karlheinz, 4,661,626, Cl. 560-343.000.
- Dravo Corporation: *See—*
  - Binzen, Willard; Insana, Samuel P.; Manning, Edward T., Jr.; and Muhoray, Cornel, 4,655,401, Cl. 241-69.000.
  - Binzen, Willard, 4,699,187, Cl. 141-5.000.
  - Binzen, Willard; and Catan, Robert S., 4,714,097, Cl. 141-5.000.
  - Kilian, Alois, 4,689,007, Cl. 432-14.000.
  - Oyler, John F.; Brand, Jerry D.; and Zavada, Richard, 4,683,029, Cl. 196-14.520.
- Drawert, Manfred; and Krase, Horst, to Schering Aktiengesellschaft. Nonslip printing ink compositions. 4,655,836, 4-7-87, Cl. 106-26.000.
- Drawert, Manfred; and Krase, Horst, to Schering AG. Polyamide resin from hydrogenated dimerized fatty acid. 4,668,765, 5-26-87, Cl. 528-336.000.
- Drawert, Manfred; Krase, Horst; and Skoda, Hans D., to Schering Aktiengesellschaft. Hardenable synthetic resin mixtures. 4,698,396, 10-6-87, Cl. 525-420.500.
- Draxelmayr, Dieter, to Siemens Aktiengesellschaft. Circuit for generating a reference voltage which is independent of temperature and supply voltage. 4,656,415, 4-7-87, Cl. 323-314.000.
- Draxl, Johann: *See—*
  - Wirz, Paul; and Draxl, Johann, 4,671,628, Cl. 350-515.000.
- Drayer, William, to General Motors Corporation. Integral evaporator and accumulator for air conditioning system. 4,679,410, 7-14-87, Cl. 62-503.000.
- Drazil, Jaromir Vaclav: *See—*
  - Carternock, Frederick A.; and Knackstedt, Jack S., 4,679,337, Cl. 37-118.00R.
- Dreamland Electrical Appliances PLC: *See—*
  - Cole, Graham M., 4,684,785, Cl. 219-212.000.
- Drechsel, Arno. Articulated connector particularly for adjusting the jet inclination of irrigators. 4,652,017, 3-24-87, Cl. 285-5.000.
- Drechsel, Arno. High-performance nozzle for irrigators. 4,669,669, 6-2-87, Cl. 239-590.500.
- Drechsel, Ludwig: *See—*
  - Angele, Eugen; and Drechsel, Ludwig, 4,655,152, Cl. 112-253.000.
- Dreckmann, Karl; Schneider, Jakob; and Theuner, Hans-Werner, to Lemo M. Lehmacher & Sohn GmbH Maschinenfabrik. Apparatus for applying transverse weld seams to an intermittently moved plastic foil web. 4,695,346, 9-22-87, Cl. 156-361.000.
- Dreesmann, Gernot: *See—*
  - Blum, Holger; and Dreesmann, Gernot, 4,670,561, Cl. 544-320.000.
- Drefahl, Dieter, to Honeywell GmbH. System for transmitting and receiving a periodic pulse train. 4,654,833, 3-31-87, Cl. 367-87.000.
- Dreher, Anton; and Gramer, Josef, to Deissenberger, Hans. Tying method for tying winding material and tying apparatus for performing the same. 4,660,358, 4-28-87, Cl. 53-589.000.
- Dreher, Anton; and Gramer, Josef, to Hans Deissenberger. Winding apparatus. 4,674,701, 6-23-87, Cl. 242-110.200.
- Dreher, Anton; and Gramer, Josef, to Deissenberger, Hans. Means for cutting to length and winding winding material. 4,695,001, 9-22-87, Cl. 242-25.00R.
- Dreher, Dieter: *See—*
  - Lehmann, Klaus; Dreher, Dieter; and Goetz, Harry, 4,644,031, Cl. 524-501.000.
  - Lehmann, Klaus; Dreher, Dieter; and Goetz, Harry, 4,705,695, Cl. 427-3.000.
- Dreher, Geoffrey A.: *See—*
  - Lincoln, Andrew J.; Osborn, Robert; and Dreher, Geoffrey A. 4,646,259, Cl. 364-900.000.
- Dreher, Hermann: *See—*
  - Berger, Rosemarie; Dreher, Hermann; Hambrecht, Juergen; Heil, Eduard; Reffert, Rudi W.; Swoboda, Johann; Echte, Adolf; and Siebel, Peter, 4,654,418, Cl. 528-486.000.
  - Brandt, Hermann; Fischer, Hermann; Dreher, Hermann; Heil, Eduard; Hambrecht, Juergen; Naarmann, Herbert; Echte, Adolf; Gausepohl, Hermann; Siebel, Peter; Swoboda, Johann; Schwoebel, Gerd; and Nikles, Albert, 4,696,996, Cl. 528-214.000.
- Dreher, Ingo: *See—*
  - Rammler, Roland; Weiss, Hans J.; Dreher, Ingo; Schmalfeld, Jorg and Bietz, Karl-Heinz, 4,659,456, Cl. 208-407.000.
- Drehobl, Thomas L.: *See—*
  - Almblad, Donald F.; Mueller, Michael A.; and Drehobl, Thomas L., 4,651,604, Cl. 83-50.000.
- Dreibelbis, Jeffrey H.: *See—*
  - Braceras, George M., and Dreibelbis, Jeffrey H., 4,709,162, Cl. 307-270.000.
- Dreibelbis, John D.; Pechter, David S.; and Bernosky, Philip J., to Kulicke and Soffa Industries, Inc. Voice coil actuated fine wire clamp. 4,653,681, 3-31-87, Cl. 228-4.500.
- Dreibelbis, Richard L.; and Hunt, Oliver L., to Du Pont de Nemours, E. I., and Company. Spinneret having groups of orifices with various interorifice spacing. 4,679,998, 7-14-87, Cl. 425-72.00S.
- Dreier, Ernst: *See—*
  - Lahodny, Johann; and Dreier, Ernst, 4,644,953, Cl. 128-305.000.
- Dreifus, David W.: *See—*
  - Molitor, Robert P.; Melvin, Terence; Nealon, John L.; and Dreifus, David W., 4,674,751, Cl. 273-235.00R.
- Dreikorn, Barry A.; and Kramer, Kenneth E., to Eli Lilly and Company. Diphenylamine compounds. 4,670,596, 6-2-87, Cl. 564-433.000.
- Dreisin, Ilya. Method of and apparatus for intermittently dispensing of filled products. 4,646,386, 3-3-87, Cl. 17-49.000.
- Dreisin, Ilya. Method of and apparatus for forming filled dough products. 4,685,874, 8-11-87, Cl. 425-132.000.
- Drennan, George A.: *See—*
  - Bloomquist, Darrel R.; Drennan, George A.; Lawton, Robert J.; Opfer, James E.; and Jacobson, Michael B., 4,663,009, Cl. 204-192.200.
- Drensky, Stephen M.: *See—*
  - Happ, Lawrence R.; Stark, Gerald A.; and Drensky, Stephen M. 4,703,147, Cl. 219-10.55C.
- Drent, Eit, to Shell Oil Company. Process for the dimerization of olefins. 4,634,793, 1-6-87, Cl. 560-243.000.
- Drent, Eit, to Shell Oil Company. Process for the co-production of carboxylic acids and carboxylic acid esters. 4,640,802, 2-3-87, Cl. 260-410.90R.
- Drent, Eit, to Shell Oil Company. Process for the preparation of diesters of dicarboxylic acids. 4,642,371, 2-10-87, Cl. 560-114.000.
- Drent, Eit, to Shell Oil Company. Process for the co-production of carboxylic acids and carboxylic acid esters. 4,664,851, 5-12-87, Cl. 260-410.90R.
- Drent, Eit, to Shell Oil Company. Process for the preparation of unsaturated carboxylate esters. 4,670,582, 6-2-87, Cl. 560-233.000.
- Drent, Eit, to Shell Oil Company. Preparation of carboxylic di-esters or acids. 4,691,047, 9-1-87, Cl. 560-204.000.
- Drent, Eit, to Shell Oil Company. Process for the preparation of unsaturated compounds. 4,692,548, 9-8-87, Cl. 560-202.000.
- Drescher, Gunter; Fankhanel, Gerhard; and Gnirk, Wolfgang, to Continental Gummi-Werke Aktiengesellschaft. Rolling-type bellows for vehicular pneumatic cushioning. 4,715,588, 12-29-87, Cl. 267-122.000.
- Dreschmann, Peter; and Walter, Wilhelm, to FAG Kugelfischer Georg Schafer (KGaA). Anti-friction bearing seal. 4,650,195, 3-17-87, Cl. 277-50.000.
- Dreschmann, Peter; and Walter, Wilhelm, to FAG Kugelfischer Georg Schafer (KGaA). Pressure relieving sealing rings for rotating elements. 4,695,062, 9-22-87, Cl. 277-27.000.
- Dresdner, Daniel, to Digital Services Corporation. Television perspective effects system. 4,667,236, 5-19-87, Cl. 358-160.000.
- Drese, Jan T. Process for continuously removing and recovering respectively a gas dissolved in a liquid, particularly ammonia from aqueous ammonia waste water. 4,668,250, 5-26-87, Cl. 55-70.000.

esen, William L.; Price, William F.; Emery, Phillip L.; Breezer, Harlan W.; and Holmes, Robert R., to Penda Corporation. Truck cargo bed liner with anti-slip surface. 4,693,507, 9-15-87, Cl. 296-39.00R.

resner, Joseph, to RCA Corporation. Transistor having a superlattice. 4,697,197, 9-29-87, Cl. 357-4.000.

ressel, Juergen: *See*—
  Rieber, Norbert; Boehm, Heinrich; Pommer, Ernst-Heinrich; and Dressel, Juergen, 4,673,429, Cl. 71-27.000.

ressel, Jurgen: *See*—
  Hagen, Helmut; Ziegler, Hans; Kohler, Rolf-Dieter; Pommer, Ernst-Heinrich; and Dressel, Jurgen, 4,699,983, Cl. 546-311.000.

Dresselhuys, Donn R.: *See*—
  Goudy, Paul R., Jr.; Medhurst, James A.; and Dresselhuys, Donn R., 4,688,699, Cl. 222-56.000.

Dressendorfer, Michael: *See*—
  Baillie, William R.; Macias, Jorge; and Dressendorfer, Michael, 4,715,669, Cl. 312-12.000.

Dresser Europe S.A.: *See*—
  Kok, Frans J. J. A., 4,679,830, Cl. 285-323.000.

Dresser Industries, Inc.: *See*—
  Afimiwala, Khurshid A., 4,683,810, Cl. 92-212.000.
  Biek, Paul A., 4,650,377, Cl. 408-130.000.
  Bowman, Dennis G., 4,648,789, Cl. 415-110.000.
  Bryan, John N., 4,686,625, Cl. 364-422.000.
  Cameron, Thomas M.; and Betlinski, Glenn M., 4,634,346, Cl. 416-247.00R.
  Carlson, Norman R.; and Johnston, James M., 4,646,273, Cl. 367-32.000.
  Chatterjea, Probir K., 4,656,924, Cl. 92-85.00B.
  Chawla, Manmohan S.; and Speights, Junius L., 4,638,712, Cl. 89-1.150.
  Chawla, Manmohan S.; and McPhee, William A., 4,643,097, Cl. 102-306.000.
  Chawla, Manmohan S.; and McPhee, William A., 4,669,384, Cl. 102-307.000.
  Cook, Lanny D.; and Parker, George W., 4,688,757, Cl. 251-210.000.
  Crane, James W., 4,635,767, Cl. 192-3.00M.
  Crawford, Micheal B., 4,679,640, Cl. 175-374.000.
  Del Vecchio, Richard J.; and Gram, James A., 4,655,041, Cl. 60-646.000.
  Diller, Charles E., 4,712,302, Cl. 30-107.000.
  Dysart, Theodore R., 4,688,651, Cl. 175-371.000.
  Eckman, Richard E., 4,688,970, Cl. 408-9.000.
  Eifling, Dennis R., 4,696,751, Cl. 210-780.000.
  Erickson, John W., 4,674,950, Cl. 415-88.000.
  Fanner, John C.; and Snyder, Warren E., 4,638,777, Cl. 123-277.000.
  Fertl, Walter H.; and Frost, Elton, 4,636,994, Cl. 367-75.000.
  Fineberg, Douglas H., 4,681,160, Cl. 166-212.000.
  Fischer, John G., 4,676,124, Cl. 76-108.00A.
  Golwas, Robert F.; Pennison, Robert A.; and Eckman, Richard E., 4,702,650, Cl. 408-6.000.
  Gray, Timothy P.; Randall, Russel R.; and Schmidt, Mathew G., 4,668,863, Cl. 250-256.000.
  Greenlee, Donald R.; and Lustig, Lee M., 4,702,313, Cl. 166-216.000.
  Huffman, Joseph L., 4,690,573, Cl. 384-251.000.
  Hultgren, Claes L., 4,683,985, Cl. 184-6.120.
  Janes, Thomas A., 4,651,100, Cl. 324-338.000.
  Janes, Thomas A., 4,678,997, Cl. 324-341.000.
  Johanson, Fredrick R., 4,659,976, Cl. 318-332.000.
  Kerner, Hadyn H., Jr., 4,646,869, Cl. 180-334.000.
  Kleeb, Thomas R., 4,680,279, Cl. 501-124.000.
  Latty, James A., 4,687,491, Cl. 44-51.000.
  Loeb, James B.; Osborne, Andrew J., Jr.; and Miglierini, Raul A., 4,662,460, Cl. 175-305.000.
  Loy, Robert E.; and Baldwin, Donald C., 4,655,634, Cl. 404-84.000.
  Lustig, Lee M.; and Ritchie, Donald E., 4,688,634, Cl. 166-120.000.
  Lustig, Lee M.; and Ellis, Gary D., 4,691,775, Cl. 166-317.000.
  Makhlouf, Makhlouf M.; and Schuster, Thomas R., 4,652,277, Cl. 51-309.000.
  Mann, John P.; Levenstein, Victor M.; and Fox, Charles H., 4,648,660, Cl. 299-10.000.
  Marquardt, Julius F., 4,656,890, Cl. 74-801.000.
  McClure, Gerald B.; and Bartges, George R., 4,650,009, Cl. 175-4.600.
  McGlothen, Jody R.; and Little, Damon P., 4,637,460, Cl. 166-189.000.
  Paetzel, Herbert K.; Lindackers, Rudolf; and Grutesen, Lothar H. M., 4,671,321, Cl. 137-625.300.
  Patel, Arvind D.; and Salandanan, Carmelita S., 4,637,883, Cl. 252-8.515.
  Patel, Arvind D.; and Salandanan, Carmelita S., 4,710,586, Cl. 560-68.000.
  Patel, Arvind D.; and Salandanan, Carmelita, 4,713,183, Cl. 252-8.515.
  Pennison, Robert A.; and Eckman, Richard E., 4,681,490, Cl. 408-10.000.
  Pennison, Robert A., 4,683,682, Cl. 51-170.00R.
  Randall, Russel R., 4,645,926, Cl. 250-256.000.
  Randall, Russel R., 4,656,354, Cl. 250-256.000.
  Read, Norman W., 4,649,995, Cl. 166-115.000.
  Read, Norman W., 4,700,782, Cl. 166-330.000.
  Riehl, David C., 4,635,743, Cl. 180-243.000.
  Sankey, Edwin W., 4,684,854, Cl. 318-140.000.
  Scallan, David J., 4,708,164, Cl. 137-476.000.
  Schlett, Paul E.; Peterson, John R.; Caprio, James A.; and Kleeb, Thomas R., 4,656,146, Cl. 501-124.000.
  Scruggs, David M.; and Mickelson, Eric N., 4,648,820, Cl. 425-8.000.
  Scruggs, David M., 4,710,235, Cl. 148-4.000.
  Shieh, Ming K., 4,677,553, Cl. 318-128.000.
  Snyder, Warren E., 4,638,783, Cl. 123-527.000.
  Snyder, Warren E., 4,686,951, Cl. 123-527.000.
  Sorensen, Robert K.; and Seaton, Starling, 4,660,444, Cl. 76-108.00A.
  Spriggs, Dennis M.; and McGlothen, Jody R., 4,637,469, Cl. 166-310.000.
  Stark, Robert A., 4,684,004, Cl. 192-87.130.
  Vezza, Thomas F., 4,639,474, Cl. 523-141.000.
  Ward, Richard M.; and McWhirter, Vernie C., 4,674,328, Cl. 73-151.000.
  Ward, William H., Jr., 4,663,574, Cl. 318-128.000.
  Williams, Norman E., 4,664,203, Cl. 172-826.000.
  Wolff, Harold E., 4,679,584, Cl. 137-269.000.

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  Barry, Michael J.; Senior, Adrian; and Beech, Alan E., 4,649,288, Cl. 307-84.000.

Dressler, Hans; and Ward, Hans A., to Koppers Company, Inc. Novel biocides employing resorcinol derivatives. 4,645,780, 2-24-87, Cl. 514-731.000.

Dressler, Hans, to Koppers Company, Inc. Tris-(3-hydroxy-4,6-di-t-alkylphenyl) phosphites. 4,656,302, 4-7-87, Cl. 558-194.000.

Dressler, Hans, to Koppers Company, Inc. Long-chain alkylresorcinol phosphites. 4,705,879, 11-10-87, Cl. 558-194.000.

Dressler, Helmut; Engenhart, Peter; Jahnel, Klaus; Kochendorfer, Heinrich; Kuhn, Ulrich; Matthas, Karl H.; and Schuster, Kurt, to Robert Bosch GmbH. Headlight for motor vehicles. 4,635,173, 1-6-87, Cl. 362-294.000.

Dressler, John L.; McConnell, Bobby L.; Glenn, Michael I.; and Holder, Joseph P., to Burlington Industries, Inc. Method and apparatus for securing uniformity and solidity in liquid jet electrostatic applicators using random droplet formation processes. 4,650,694, 3-17-87, Cl. 427-32.000.

Dressler, John L.: *See*—
  Sutera, Richard; Dressler, John L.; and Halliday, Bruce W., 4,638,327, Cl. 346-75.000.
  Sutera, Richard; Dressler, John L., and Archer, Timothy H., 4,667,207, Cl. 346-75.000.

Dressman, Jennifer B.: *See*—
  Amidon, Gordon L.; Higuchi, Takeru; and Dressman, Jennifer B., 4,685,918, Cl. 604-892.000.

Dresti, Silvano; Buhler, Ernst; and Derighetti, Rene, to AG fur industrielle Elektronik AGIE Losone b. Locarno. Power supply circuit for spark erosion. 4,678,885, 7-7-87, Cl. 219-69.00C.

Dretzka, Ellen E.; Quan, Zoe S.; and Schreiner, Philip A., to American Telephone and Telegraph Company AT&T Bell Laboratories. Data communication method and apparatus using multiple physical data links. 4,703,475, 10-27-87, Cl. 370-60.000.

Dreuilhe, Claude: *See*—
  Obrecht, Georges; and Dreuilhe, Claude, 4,637,480, Cl. 175-45.000.

Drever, Kenneth W.; and Purton, Robert G., to Morris Rod-Weeder Co., Ltd. Flexible frames for wide swath agricultural implements. 4,658,911, 4-21-87, Cl. 172-776.000.

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  Chizallet, Pierre J.; Drevet, Jean C.; Monnatte, Henri J.; Meillant, Henri P.; and Taillandier, Yves J., 4,672,544, Cl. 364-414.000.

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  Axen, Rolf E.; Carlsson, Jan P.; and Drevin, Hakan N., 4,647,655, Cl. 530-390.000.

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  Herman, Kark W., 4,686,854, Cl. 73-86.000.
  Mullins, Michael A.; and Thomas, Peter A., 4,647,314, Cl. 134-30.000.
  Mullins, Michael A.; and Thomas, Peter A., 4,664,884, Cl. 422-13.000.
  Thomas, Peter A.; and Dewitt-Dick, Doug B., 4,670,236, Cl. 423-242.000.

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  Young, Mark S.; Drew, John; and Shebanow, Michael C., 4,667,286, Cl. 364-200.000.
  Young, Mark S.; Drew, John; and Shebanow, Michael C., 4,667,326, Cl. 371-40.000.

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  Winter, Walter W.; Gothard, Steven E.; and Drew, John H., 4,697,282, Cl. 379-67.000.

Drewek, David F., to General Motors Corporation. Vehicle body structure. 4,673,205, 6-16-87, Cl. 293-132.000.

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Drewes, Siegfrid; and Liebenberg, Roelof W., to Roecar Holdings. Pentene-diphenyl-diglucoside containing compound. 4,652,636, 3-24-87, Cl. 536-4.100.

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Drews, Eberhard: *See—*
Hillmann, Willi; Paus, Hermann; and Drews, Eberhard, 4,700,023, Cl. 191-12.20A.
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Bringmann, Udo; Drews, Klaus; and Schon, Detlef G., 4,673,588, Cl. 427-41.000.
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Drews, Reinhold A.; Jautakis, Karl; and Kuyper, Mark E., to Whirlpool Corporation. Heater assembly and mounting arrangement for a dryer. 4,700,495, 10-20-87, Cl. 34-133.000.
Drews, Ulrich; and Kleinhans, Josef, to Robert Bosch GmbH. Method and apparatus for measuring the flow rate of a flowing medium. 4,658,641, 4-21-87, Cl. 73-118.200.
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Kolbe, Ernst-Gunter; Weinmann, Hasso; Drews, Wolfgang; and Eckstein, Wolfgang, 4,665,910, Cl. 128-202.260.
Drewsen, Philip L. Heating system. 4,665,890, 5-19-87, Cl. 126-77.000.
Drexel University: *See—*
Rosen, Arye; and Herczfeld, Peter R., 4,675,624, Cl. 333-161.000.
Drexler, Jerome, to Drexler Technology Corporation. Optical data retrieval system for multi-characteristic reflective data storage media. 4,642,803, 2-10-87, Cl. 369-54.000.
Drexler, Jerome, to Drexler Technology Corporation. System for optically reading and annotating text on a data card. 4,656,346, 4-7-87, Cl. 235-487.000.
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Drexler, Jerome, to Drexler Technology Corporation. Data system employing wallet-size optical card. 4,680,456, 7-14-87, Cl. 235-454.000.
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Drexler, Jerome, to Drexler Technology Corporation. System and method for making recordable wallet-size optical card. 4,680,460, 7-14-87, Cl. 235-488.000.
Drexler, Jerome, to Drexler Technology Corporation. Dual stripe optical data card. 4,683,371, 7-28-87, Cl. 235-487.000.
Drexler, Jerome, to Drexler Technology Corporation. Method of forming a personal information card. 4,692,394, 9-8-87, Cl. 430-140.000.
Drexler, Jerome; and Haddock, Richard, to Drexler Technology Corporation. Protective envelope for optical data card. 4,711,347, 12-8-87, Cl. 206-38.000.
Drexler, Jerome, to Drexler Technology Corporation. Redundant optical recording of information in different formats. 4,711,996, 12-8-87, Cl. 235-468.000.
Drexler Technology Corporation: *See—*
Bouldin, Eric; Haddock, Richard; and Dyball, Christopher J., 4,692,402, Cl. 430-945.000.
Drexler, Jerome, 4,642,803, Cl. 369-54.000.
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Haddock, Richard, 4,700,840, Cl. 206-449.000.
Pierce, Gerald A.; and Buxton, James L., 4,634,850, Cl. 235-487.000.
Dreyer, Adolf; and Roozenbeek, Herman, to Robert Bosch GmbH. Method of recognizing knocking signals in a received signal derived from a knocking sensor in an internal combustion engine, and system carrying out the method. 4,637,247, 1-20-87, Cl. 73-35.000.
Dreyer, Charles W., to Sealectro Corporation. Solderless coaxial connector. 4,688,877, 8-25-87, Cl. 439-584.000.
Dreyer, Heinz; Scheufler, Bernd; Wiemeyer, Benno; and Luhrmann, Johannes, to Amazonen-Werke H. Dreyer GmbH & Co. KG. Seed drill. 4,694,759, 9-22-87, Cl. 111-85.000.
Dreyer, John F., Jr., to Minnesota Mining and Manufacturing Company. Automatic focus for overhead projector. 4,634,246, 1-6-87, Cl. 353-98.000.
Dreyer, Uwe: *See—*
Brinker, Alfred; Stewart, Iain G.; and Dreyer, Uwe, 4,648,232, Cl. 53-54.000.
Brinker, Alfred; and Dreyer, Uwe, 4,688,736, Cl. 242-56.00R.
Dreyer, William J.: *See—*
Hood, Leroy E.; Hunkapiller, Michael W.; Dreyer, William J.; Hewick, Rodney M.; and Stark, Anton W., 4,704,256, Cl. 422-68.000.
Dreyfus, Roger, to ICP S.A. Composite package for a group of containers. 4,715,493, 12-29-87, Cl. 206-200.000.
Dreyfus, Russell W.: *See—*
Beha, Johannes G.; Dreyfus, Russell W.; Hartstein, Allan M.; and Rubloff, Gary W., 4,644,264, Cl. 324-73.00R.
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Beha, Johannes G.; Dreyfus, Russell W.; and Rubloff, Gary W., 4,706,018, Cl. 324-158.00R.
Burns, Francis C.; Dreyfus, Russell W.; and Susko, John R., 4,687,539, Cl. 156-626.000.
Dreyfuss, Wilfried; Remp, Thomas E., Jr.; and Muller, Kurt. System for protecting machine threads. 4,662,402, 5-5-87, Cl. 138-96.00T.
Dreyfuss, Wilfried: *See—*
Remp, Thomas E., Jr.; Dreyfuss, Wilfried; and Muller, Kurt, 4,706,822, Cl. 211-59.400.
Dreymann, Bernhard: *See—*
Ladeburg, Jorg; Becker, Robert; Dreymann, Bernhard; Gensler, Thomas; Ulrich, Robert; Wahrenbruch, Paul; and Blaser, Reinhard, 4,672,166, Cl. 219-110.000.
DRG (UK) Limited: *See—*
Dowden, Paul J., 4,685,851, Cl. 414-361.000.
Evans, David A., 4,664,271, Cl. 212-196.000.
Evans, David A.; and Dowden, Paul J., 4,671,725, Cl. 414-137.000.
Dria, Dennis E.: *See—*
Bremer, Noel J.; Dria, Dennis E.; Milberger, Ernest C.; Blum, Patricia,R.; and Nicholas, Mark L., 4,647,673, Cl. 549-260.000.
Driden Anstalt: *See—*
Tanaka, Kenji, 4,674,852, Cl. 351-90.000.
Dridrinks N.V.: *See—*
Lavie, Louis F., 4,716,046, Cl. 426-96.000.
Driemeier, Gunter: *See—*
Unland, Georg; and Driemeier, Gunter, 4,667,886, Cl. 241-23.000.
Dries, Gregory A.; and Tompkins, Stephen S., to United States of America, National Aeronautics and Space Administration. Method of thermal strain hysteresis reduction in metal matrix composites. 4,662,955, 5-5-87, Cl. 148-125.000.
Dries, Hubertus W. A. A., to Shell Oil Company. Apparatus for cleaning solids-laden gas. 4,695,298, 9-22-87, Cl. 55-223.000.
Driessen, Leonardus M. H. E., to U.S. Philips Corporation. Fast decoder and encoder for Reed-Solomon codes and recording/playback apparatus having such an encoder/decoder. 4,675,869, 6-23-87, Cl. 371-37.000.
Driessen, Leonardus M. H. E.: *See—*
Baggen, Constant P. M. J.; Driessen, Leonardus M. H. E.; Pollen, Rudy W. J.; and Vries, Lodewijk B., 4,683,572, Cl. 371-37.000.
Drigani, Fausto: *See—*
Poloni, Alfredo; Drigani, Fausto; and Canzutti, Roberto, 4,714,355, Cl. 384-193.000.
Driggers, John M., to Westinghouse Electric Corp. Brazing apparatus having a dual function heating and eddy current probe coil. 4,683,361, 7-28-87, Cl. 219-10.430.
Driggers, John M., to Westinghouse Electric Corp. Radiant brazing temperature sensing apparatus and process. 4,700,040, 10-13-87, Cl. 219-85.00R.
Driggers, John M.; and Pirl, William E., to Westinghouse Electric Corp. Radiant brazing temperature sensing apparatus and process. 4,700,053, 10-13-87, Cl. 219-523.000.
Driggers, Randolph W.: *See—*
Petree, Larry M.; Attaway, Julian J.; and Driggers, Randolph W., 4,649,684, Cl. 52-395.000.
Dril-Quip, Inc.: *See—*
Reimert, Larry E., 4,648,627, Cl. 285-24.000.
Reimert, Larry E., 4,659,119, Cl. 285-82.000.
Driller, Hubert; and Mang, Paul, to Mania Elektronik Automatisation Entwicklung und Geratebau GmbH. Contact array assembly for a computer-controlled printed circuit board testing apparatus. 4,674,006, 6-16-87, Cl. 361-393.000.
Dring, Eric, to Dale (Mansfield) Limited. Variable displacement fluid pump with transducer interface. 4,710,104, 12-1-87, Cl. 417-53.000.
Drip Irrigation Systems, Ltd.: *See—*
Eckstein, Gershon, 4,653,695, Cl. 239-542.000.
Driscoll, Carleton D.; Najm, Elie M.; and Waechter, Manfred, to International Business Machines Corp. Shutdown circuit for blocking oscillator power supply. 4,685,020, 8-4-87, Cl. 361-18.000.
Driscoll, John J.: *See—*
DeWitt, Gregory S.; Driscoll, John J.; and Shepherd, John L., 4,688,214, Cl. 370-94.000.
Driscoll, John L.: *See—*
Coraluppi, Giorgio L.; Driscoll, John L.; Jacobs, David C.; Law, Edward K. H.; and Masson, Gerald M., 4,654,842, Cl. 370-16.000.
Driscoll, John N.; and Atwood, Edwards S., to HNU Systems, Inc. Gas sensor. 4,659,434, 4-21-87, Cl. 204-1.00T.
Driscoll, John S.; Khan, A. Hameed; and Chou, Feng-Te, to United States of America, Health and Human Services. Aziridinyl quinone antitumor agents. 4,704,384, 11-3-87, Cl. 514-183.000.
Driscoll, Patrick R.; and Kremer, Ross A., to Mobil Oil Corporation. Process for production of phosphoric acid from dry matrix by SO; treatment and extraction. 4,714,600, 12-22-87, Cl. 423-319.000.
Driscoll, Robert K.; Leupold, Ernst I.; and Ebertz, Wolfgang, to Hoechst Aktiengesellschaft. Process for the preparation of glyoxylic hemiacetal esters. 4,692,547, 9-8-87, Cl. 560-186.000.
Driskel, Stephen P., to BICC Public Limited Company. Optical fibr ribbon structure. 4,676,591, 6-30-87, Cl. 350-96.230.
Driskel, Stephen P., to BICC Public Limited Company. Optical fibr element for use in an optical cable. 4,679,897, 7-14-87, Cl. 350-96.23
Driskell, Thomas D., to Boehringer Mannheim Corporation. Submerg ible post-type dental implant system and method of using sam 4,687,443, 8-18-87, Cl. 433-173.000.
Drlik, Gunther, to Obe-Werk Ohnmacht & Baumgartner GmbH & C K.G. Bow and spring hinge assembly for eyeglasses. 4,674,14 6-23-87, Cl. 16-228.000.

- DrM, Dr. Muller AG: *See—*
  - Schumacher, Ivo, 4,650,580, Cl. 210-323.200.
- Drobe, Wolfgang: *See—*
  - Hoft, Peter; Peter, Wolfgang; Bergsteiner, Johann; Berschiek, Gunter; Drobe, Wolfgang; Engelke, Fritz; Hacke, Heinz; Hebbinghaus, Walter; and Kuhnert, Siegfried, 4,690,297, Cl. 220-273.000.
- Drobish, James L., to Procter & Gamble Company, The. Dispensing package and follower deivce. 4,640,442, 2-3-87, Cl. 222-209.000.
- Drobnik, Jaroslav; Noskova, Dagmar; Rypacek, Frantisek; Metalova, Marie; and Saudek, Vladimir, to Ceskoslovenska akademie ved. Macromolecular coordination compound containing platinum with antitumor activity in rodents. 4,659,849, 4-21-87, Cl. 556-137.000.
- Drogin, Edwin M., to Eaton Corporation. Unambiguous wide baseline interferometer. 4,638,321, 1-20-87, Cl. 342-444.000.
- Droitsch, Lutz: *See—*
  - Kranzle, Josef; Droitsch, Lutz; and Bauer, Manfred, 4,636,146, Cl. 417-270.000.
- Drolet, Denis; Burchmore, William; and Drolet, Leo, to Inclasco Corporation Ltd. Ice hockey stick. 4,684,130, 8-4-87, Cl. 273-67.00A.
- Drolet, Leo: *See—*
  - Drolet, Denis; Burchmore, William; and Drolet, Leo, 4,684,130, Cl. 273-67.00A.
- Droll, Hans; and Fessler, Dieter. Method and device for production of cover strips for insertion into the grooves of stators of electric machines. 4,648,927, 3-10-87, Cl. 156-159.000.
- Droll, Hans; and Muskulus, Willi, to Statomat-Globe Maschinenfabrik GmbH. Method and apparatus for winding wire coils. 4,650,131, 3-17-87, Cl. 242-7.030.
- Droller, Richard; and Fontaine, Brian, to Coleco Industries, Inc. Figure toy with gripping legs assembly. 4,666,419, 5-19-87, Cl. 446-330.000.
- Droller, Richard; and Farrington, Richard I., to Coleco Industries, Inc. Figure toy with rapidly retractable trap element. 4,682,968, 7-28-87, Cl. 446-268.000.
- Droller, Richard; and Fontaine, Brian, to Coleco Industries, Inc. Figure toy with rapidly extensible tongue. 4,689,033, 8-25-87, Cl. 446-183.000.
- Dromard, Adrien; Exertier, Michel; Rollin, Claude; Tayot, Jean-Louis; and Tardy, Michel, to Rhone-Poulenc Recherches; and Institut Merieux. Fractionation/purification of plasma by ion exchange chromatography. 4,675,384, 6-23-87, Cl. 530-364.000.
- Dromigny, Pierre; and Schottli, Theodore. Method, machine and mold for fabricating containers, made from an injected material, with a film forming an external coating. 4,686,076, 8-11-87, Cl. 264-268.000.
- Dromigny, Pierre; and Schottli, Theodore, to Dromigny, Pierre. System for feeding film, forming a partial coating at least of a molded object, into a mold. 4,710,116, 12-1-87, Cl. 425-125.000.
- Drommert, Heinz: *See—*
  - Nebe, Wolfgang; Reichel, Jutta; Biehler, Klaus; Lucht, Hartmut; and Drommert, Heinz, 4,691,110, Cl. 250-458.100.
- Dronet, Jean-Marc: *See—*
  - Lemaire, Didier V.; and Dronet, Jean-Marc, 4,697,695, Cl. 198-803.150.
- Drori, Joseph; and Check, William S. J., to Xicor, Inc. Nonvolatile reprogrammable electronic potentiometer. 4,668,932, 5-26-87, Cl. 338-48.000.
- Drori, Mordeki. Multiple-disc type filter with extensible support. 4,642,182, 2-10-87, Cl. 210-232.000.
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- Drori, Mordeki. Grooved filter discs. 4,681,681, 7-21-87, Cl. 210-133.000.
- Drori, Mordeki. Multiple-disc type filters. 4,683,060, 7-28-87, Cl. 210-448.000.
- Drori, Mordeki. Disk filter. 4,707,258, 11-17-87, Cl. 210-333.100.
- Droscher, Bernhard; and Zitz, Alfred, to Voest-Alpine Aktiengesellschaft. Device for controlling the position of a tunnelling machine. 4,643,567, 2-17-87, Cl. 356-152.000.
- Droscher, Michael: *See—*
  - Gerth, Christian; and Droscher, Michael, 4,708,986, Cl. 525-177.000.
- Droske, Donald J.: *See—*
  - Moy, Howard; Thomas, James R.; and Droske, Donald J., 4,693,509, Cl. 296-201.000.
- Dross, Joachim: *See—*
  - Reinehr, Ulrich; Hirsch, Rolf-Burkhard; Dross, Joachim; and Jungverdorben, Hermann-Josef, 4,714,045, Cl. 118-420.000.
- Drost, James L.: *See—*
  - Gordin, Myron K.; and Drost, James L., 4,712,167, Cl. 362-233.000.
- Drost, Kerry P. Cable driven spa thermostat controller. 4,681,255, 7-21-87 Cl. 236-51.000.
- Drott, Peter, to Alfred Teves GmbH. Disc brake for automotive vehicles. 4,693,341, 9-15-87, Cl. 188-72.700.
- Drott, Peter: *See—*
  - Czich, Erhard; Drott, Peter; and Haefner, Horst, 4,709,789, Cl. 188-73.440.
- Drouart, Alain: *See—*
  - Le Sergent, Christian; and Drouart, Alain, 4,676,820, Cl. 65-3.120.
- Drouet, Claudette: *See—*
  - Minjolle, Louis; Drouet, Claudette; Hordonneau, Alain; and Capdepuy, Bernard, 4,696,710, Cl. 156-89.000.
- Drouet, Michel G.; and Munz, Richard J., to Hydro-Quebec. Purification of effluent gases. 4,652,289, 3-24-87, Cl. 65-27.000.
- Drouet, Michel G., to Hydro-Quebec. Method and device for controlling the erosion of the electrodes of a plasma torch. 4,683,367, 7-28-87, Cl. 219-121.0PY.
- Drouin, Bernard: *See—*
  - Boulay, Russell; Drouin, Bernard; and Gagnon, Richard, 4,654,529, Cl. 250-341.000.
- Droulon, Georges: *See—*
  - Pipon, Yves, and Droulon, Georges, 4,641,806, Cl. 248-430.000.
  - Pipon, Yves; and Droulon, Georges, 4,690,458, Cl. 297-379.000.
- Droux, Jacques; and Langrenne, Albert, to CII-Honeywell Bull (Societe Anonyme). Magnetic disc cartridge having improved disc brake. 4,646,192, 2-24-87, Cl. 360-133.000.
- Droz, Francois, to Brentini, Attilio. Portable display case for timepieces, jewels, costume jewelry and like articles. 4,650,077, 3-17-87, Cl. 206-566.000.
- Drozd, Joseph C.; and Egan, Richard R., to Sherex Chemical Company, Inc.; and Stepan Company. Liquid biodegradable surfactant and use thereof. 4,668,423, 5-26-87, Cl. 252-174.210.
- Drozda, Manfred, to Miba Sintermetall Aktiengesellschaft. Sintered shrink-on cam and process of manufacturing such cam. 4,664,706, 5-12-87, Cl. 75-246.000.
- DRS Infusion Systems, Inc.: *See—*
  - Luther, Ronald B.; Snyder, Daniel R.; and Whitehouse, Craig M., 4,702,735, Cl. 604-161.000.
- Druckenbrodt, Wolf-Gunther: *See—*
  - Lasberg, Ingo, and Druckenbrodt, Wolf-Gunther, 4,687,941, Cl. 250-506.100.
- Druckerman, Martin: *See—*
  - Bryan, Barry L.; Druckerman, Martin; McDowell, Allen W.; Schneider, Ira H.; and Newkirk, Gary L., 4,641,262, Cl. 364-900.000.
- Drueck, Fred, Jr. Pentagonal dodecahedron. 4,682,726, 7-28-87, Cl. 229-108.000.
- Druet, Jacques G.: *See—*
  - Allaria, Alain P.; and Druet, Jacques G., 4,651,428, Cl. 33-126.70R.
- Druffel, Erich, to Durkoppwerke GmbH. Thread-tensioning device for a bobbin housing. 4,679,513, 7-14-87, Cl. 112-229.000.
- Drug Delivery Systems Inc.: *See—*
  - Sibalis, Dan, 4,640,689, Cl. 604-20.000.
  - Sibalis, Dan, 4,708,716, Cl. 604-20.000.
  - Sibalis, Dan, 4,713,050, Cl. 604-20.000.
- Drug Package, Inc.: *See—*
  - Ringer, Donald A.; and Greco, Michael R., 4,685,271, Cl. 53-246.000.
- Drug Science Foundation: *See—*
  - Eller, Thomas D.; and Knapp, Daniel R., 4,652,681, Cl. 564-349.000.
  - Eller, Thomas D.; Halushka, Perry V.; Knapp, Daniel R.; and Mais, Dale, 4,695,647, Cl. 560-53.000.
- Drugeault, Lionel: *See—*
  - Barrere, Genevieve C.; Beydon, Marie-Helene; Drugeault, Lionel; and Vasseur, Jean-Pierre, 4,684,613, Cl. 435-301.000.
- Drugge, Folke N. Apparatus for removing manhole covers and the like. 4,681,300, 7-21-87, Cl. 254-131.000.
- Druihet, Harold N.: *See—*
  - Fogleman, H. Frank; and Druihet, Harold N., 4,669,394, Cl. 109-59.00T.
- Drummond, George: *See—*
  - Kappas, Attallah; and Drummond, George, 4,684,637, Cl. 514-185.000.
- Drummond, George S.: *See—*
  - Kappas, Attallah; and Drummond, George S., 4,657,902, Cl. 514-185.000.
  - Kappas, Attallah; and Drummond, George S., 4,692,440, Cl. 514-185.000.
  - Rideout, Darryl; Kappas, Attallah; and Drummond, George S., 4,668,670, Cl. 514-185.000.
  - Rideout, Darryl; Kappas, Attallah; and Drummond, George S., 4,692,439, Cl. 514-185.000.
  - Rideout, Darryl; Kappas, Attallah; and Drummond, George S., 4,699,903, Cl. 514-185.000.
- Drummond, Robert L. Side bar wafer lock, an improved spring retainer for said lock, and a method of using said spring retainer in said lock. 4,689,978, 9-1-87, Cl. 70-431.000.
- Drummond Scientific Company: *See—*
  - Kenney, James W., 4,662,545, Cl. 222-386.000.
- Drummond, Todd: *See—*
  - Vees, Frederick; and Drummond, Todd, 4,681,049, Cl. 112-262.300.
- Drury, Alvin C., to Jung Corporation. Apparatus for making an athletic supporter. 4,685,405, 8-11-87, Cl. 112-121.150.
- Drury, Donald. Propulsion unit for water craft. 4,652,244, 3-24-87, Cl. 440-40.000.
- Drury, Gordon M.; Mason, Arthur G.; Lodge, Nicolas K.; and Flannaghan, Barry A., to Independent Broadcasting Authority. Signal coding for secure transmission. 4,636,851, 1-13-87, Cl. 358-119.000.
- Drury, Michael J.: *See—*
  - Metz, Werner A., Jr.; Szluk, Nicholas J.; Miller, Gayle W.; Drury, Michael J.; and Sullivan, Paul A., 4,648,175, Cl. 29-589.000.
- Drury, Raymond L., Jr.: *See—*
  - Downs, John D.; Drury, Raymond L., Jr.; Moser, Kenneth B.; and Roth, C. Deane, 4,713,436, Cl. 528-295.300.
- Druy, Mark A.; and Tripathy, Sukant K., to GTE Laboratories Incorporated. Multicomponent systems based on polypyrrole. 4,644,037, 2-17-87, Cl. 525-390.000.
- Druy, Mark A.; and Tripathy, Sukant K., to GTE Laboratories Incorporated. Multicomponent systems based on polythiophene. 4,657,985, 4-14-87, Cl. 525-390.000.

Druy, Mark A.; Tripathy, Sukant K.; and Rubner, Michael F., to GTE Laboratories Incorporated. Multicomponent systems based on polypyrrole. 4,707,527, 11-17-87, Cl. 525-417.000.
Druy, Mark A.: *See—*
  Bowers, Mark L.; Druy, Mark A.; Durfor, Charles N.; Smith, H. Gilbert; Tripathy, Sukant K.; and Yenser, Barbara A., 4,704,193, Cl. 204-1.00T.
Druz, Jacques: *See—*
  Nicco, Adrien; Hubert, Jerome; Druz, Jacques; and Lambla, Morand, 4,657,781, Cl. 427-117.000.
Drwiega, Bohdan. Projection apparatus for photographic transparencies and a device apparatus for storing transparencies to be projected with the apparatus. 4,650,303, 3-17-87, Cl. 353-25.000.
Dryanska, Margarita D.: *See—*
  Ivanova, Nedyalka S.; Nikolova, Milka P.; Ivanov, Chavdar B.; Dryanska, Margarita D.; and Zabunova, Orhideya B., 4,666,918, Cl. 514-307.000.
Dryman, William K.; Blake, Walter R.; and Halper, Warren, to General Electric Company. Luminaire including improved refractor mounting arrangement. 4,654,768, 3-31-87, Cl. 362-374.000.
Drywall Taping Tools, Inc.: *See—*
  Kumar, Sudhir, 4,664,611, Cl. 425-87.000.
Drzal, Robert S.: *See—*
  LaNieve, H. Leslie, III; Drzal, Robert S.; and Ehrlich, Benjamin S., 4,707,525, Cl. 525-399.000.
Drzemala, Elizabet Van Bellingen and Stanislas, legal representatives: *See—*
  Drzemala, Jean S., deceased, 4,665,676, Cl. 52-656.000.
Drzemala, Jean S., deceased (by Drzemala, Elizabet Van Bellingen and Stanislas, legal representatives), to Gryson, Liliane Germaine. Frame. 4,665,676, 5-19-87, Cl. 52-656.000.
Drzyzga, Michael, Jr.: *See—*
  Grabowski, Stanley E., 4,713,868, Cl. 29-275.000.
Drzyzga, Richard: *See—*
  Grabowski, Stanley E., 4,713,868, Cl. 29-275.000.
dSam Ltd.: *See—*
  Samuelson, David, 4,669,840, Cl. 352-170.000.
Dschida, Linda M.: *See—*
  Durtschi, William G.; Dschida, Linda M.; and Lang, David J., 4,688,469, Cl. 91-388.000.
D'Silva, Themistocles D.: *See—*
  Rao, Chennupati K.; and D'Silva, Themistocles D., 4,686,233, Cl. 514-469.000.
D'Silva, Themistocles D. J., to Union Carbide Corporation. Sulfur-containing bis-imino carbamate compounds, pesticidal composition and use. 4,657,904, 4-14-87, Cl. 514-229.000.
D'Silva, Themistocles D. J., to Union Carbide Corporation. Insecticidal and miticidal oxime N-alkyl-N-α-haloacylcarbamate derivatives, compositions, and method of use therefor. 4,675,340, 6-23-87, Cl. 514-436.000.
D'Silva, Themistocles D. J.: *See—*
  Rao, Chennupati K.; Arora, Sudershan K.; Grover, Raman; Durden, John A.; and D'Silva, Themistocles D. J., 4,637,901, Cl. 260-544.00C.
DSL Dynamic Sciences Limited: *See—*
  Schmid, Hartmut, 4,641,892, Cl. 303-47.000.
DSM Resins B.V.: *See—*
  de Koning, Adrianus J.; Loontjens, Jacobus A.; Mostert, Hubertus A. M.; and Omloo, Hubertus A. A., 4,684,706, Cl. 526-262.000.
  Van der Linde, Robert; and Rietberg, Johan, 4,686,270, Cl. 527-601.000.
  van der Linde, Robert, 4,694,033, Cl. 523-437.000.
DSM Rim Nylon VOF: *See—*
  Gabbert, James D.; Garner, Albert Y.; and Hedrick, Ross M., 4,645,800, Cl. 525-340.000.
  Garner, Albert Y.; Gabbert, James D.; and Hedrick, Ross M., 4,696,977, Cl. 525-184.000.
  Mottus, Edward H.; Hedrick, Ross M.; and Silverman, Bernard, 4,672,085, Cl. 524-718.000.
  Mottus, Edward H.; and Hedrick, Ross M., 4,677,189, Cl. 528-323.000.
  Mottus, Edward H.; Hedrick, Ross M.; and Silverman, Bernard, 4,694,039, Cl. 524-718.000.
  Mottus, Edward H.; and Hedrick, Ross M., 4,695,611, Cl. 525-432.000.
DSO "ELPROM": *See—*
  Popov, Entcho N.; Apostolov, Rumen K.; Georgiev, Georgi A.; Katzarov, Hristo B.; and Penkov, Julii S., 4,658,167, Cl. 310-156.000.
  Popov, Entcho N.; Stanilov, Krestyo A.; Apostolov, Rumen K.; Dundarov, Pantcho G.; Radkov, Peyu V.; Aderski, Pentcho K.; and Georgiev, Georgi A., 4,695,754, Cl. 310-156.000.
DSPIE "D. Blagoev": *See—*
  Stambolov, Lyuben K.; Chaushev, Sotir Y.; and Simitchiev, Dilvan L., 4,678,615, Cl. 261-111.000.
Dsung Precision Company: *See—*
  Suh, Kyung S., 4,697,171, Cl. 340-543.000.
DTS, Inc.: *See—*
  Phillips, Thomas, 4,686,911, Cl. 109-1.00S.
Du-Al Manufacturing Company: *See—*
  Stumpe, Leroy, 4,637,772, Cl. 414-686.000.
Du Pont Canada Inc.: *See—*
  Boivin, Daniel W.; and Zelonka, Ronald A., 4,678,834, Cl. 525-74.000.
  Breck, Alan K.; and Mollison, Alistair N., 4,657,982, Cl. 525-240.000.
  Casey, Kenneth, 4,646,641, Cl. 102-306.000.
  Hallsworth, Rodney S.; and Wirzig, Ralph C., 4,648,240, Cl 57-288.000.
  Mitchell, David J.; and Zboril, Vaclav G., 4,701,504, Cl 526-83.000.
  Sipos, Peter A., 4,658,056, Cl. 562-523.000.
  Yeates, John N., 4,673,768, Cl. 585-519.000.
  Zboril, Vaclav G., 4,666,994, Cl. 525-370.000.
  Zboril, Vaclav G., 4,711,923, Cl. 524-323.000.
Du Pont-Mitsui Polychemicals Co., Ltd.: *See—*
  Tada, Seiichi; and Hosoai, Yasuhisa, 4,677,163, Cl. 525-190.000.
Du, Yu-cang: *See—*
  Tregear, Geoffrey W.; Du, Yu-cang; and Niall, Hugh D., 4,656,249, Cl. 530-324.000.
Duane, Michael P.: *See—*
  Doering, Robert R.; Duane, Michael P.; and Armstrong, Gregory J., 4,677,739, Cl. 29-576.00B.
Duane, Willis J.: *See—*
  Bajgert, Teddy A.; Bunker, Neall H.; Cochran, James L.; Duane, Willis J.; and Mojica, Arturo, 4,714,946, Cl. 355-75.000.
Duarte, Virgilio D.: *See—*
  Leduc, Richard; Duarte, Virgilio D.; and Lamothe, Claude, 4,664,197, Cl. 169-26.000.
Dubach, Werner F., to Alfatechnic AG. Plastic closure with safety band. 4,696,408, 9-29-87, Cl. 215-237.000.
Dubach, Werner F., to Alfatechnic AG. Plastic stopper with a snap hinge. 4,699,283, 10-13-87, Cl. 215-237.000.
Dubar, Thierry: *See—*
  Allemand, Didier; Degoix, Bernard; and Dubar, Thierry, 4,671,611, Cl. 350-96.230.
DuBarry Furniture of Canada Limited: *See—*
  Magder, Max, 4,711,495, Cl. 297-440.000.
Dubbs, Jack F., and Hanyen, Clyde K., to AMP Incorporated. Method of forming a flexible strip of encapsulated contact members. 4,686,766, 8-18-87, Cl. 29-883.000.
Dube, Brian J. Juggling club. 4,696,468, 9-29-87, Cl. 272-124.000.
Dube, Carlos M.; and Devensky, Walter L., to Allied Corporation. Real time controller. 4,654,817, 3-31-87, Cl. 364-900.000.
Dube, Roger R., to International Business Machines Corporation. Holographic image processing systems. 4,636,027, 1-13-87, C 350-3.600.
Dube, Roger R., to International Business Machines Corporation. Optical signal processing arrangements. 4,655,542, 4-7-87, C 350-3.640.
Duben, Jiri: *See—*
  Kaspers, Helmut; Duben, Jiri; and Gisi, Ulrich, 4,701,454, C 514-245.000.
Dubertret, Alain; Rizzo, Gilles; Bargain, Raymond; De Mendez, Michel; and Thenaisie, Jacky, to Souriau & Cie. Electric contact terminal thermo-insertable onto a printed circuit card and a connector having such terminals. 4,687,269, 8-18-87, Cl. 439-161.000.
Dubetsky, Derry J.: *See—*
  Boss, David W.; and Dubetsky, Derry J., 4,677,254, Cl. 174-68.50
Dubey, Thomas W. Method and apparatus for repairing copper pipe 4,673,122, 6-16-87, Cl. 228-119.000.
Dubief, Claude: *See—*
  Grollier, Jean F.; and Dubief, Claude, 4,657,690, Cl. 252-90.000.
  Grollier, Jean F.; and Dubief, Claude, 4,664,835, Cl. 252-90.000.
  Grollier, Jean F.; Dubief, Claude; and Cauwet, Daniele, 4,673,5 Cl. 424-47.000.
  Grollier, Jean F.; and Dubief, Claude, 4,710,374, Cl. 424-61.000.
  Grollier, Jean-Francois; Ficquet, Claire; Fourcadier, Chantal; Dubief, Claude; and Cauwet, Daniele, 4,638,822, Cl. 132-7.000.
Dubilier Scientific Limited: *See—*
  Cleaver, John R. A.; and Ahmed, Haroon, 4,649,316, C 313-361.100.
Dubin, Leonard, to Nalco Chemical Company. Means of controlli precipitation of Na_2SO_4 from solutions of $NaHSO_3$ oxygen scavengers. 4,676,910, 6-30-87, Cl. 210-696.000.
Dubis, Ronald. Tray for use with ladders. 4,662,594, 5-5-87, 248-238.000.
Dubke, Robert E.: *See—*
  Brown, Mark W.; Dubke, Robert E.; and Kimmel, Milton 4,677,573, Cl. 364-521.000.
  Brown, Mark W.; and Dubke, Robert E., 4,684,936, 340-721.000.
Dublet, Guy P.: *See—*
  Palicot, Jacques P.; and Dublet, Guy P., 4,696,015, Cl. 375-14.0
Dubner Computer Systems, Inc.: *See—*
  Ghazey, John M., 4,707,731, Cl. 358-22.000.
Dubner, Robert; Dubner, Russel S.; and Dubner, Todd A., to Rebo Systems, Inc. Protective headgear for wrestler. 4,710,985, 12-8-87, 2-425.000.
Dubner, Russel S.: *See—*
  Dubner, Robert; Dubner, Russel S.; and Dubner, Todd 4,710,985, Cl. 2-425.000.
Dubner, Todd A.: *See—*
  Dubner, Robert; Dubner, Russel S.; and Dubner, Todd 4,710,985, Cl. 2-425.000.
Dubois, Craig; and Fontaine, Brian, to Coleco Industries, Inc. Fi toy with extensible head portion. 4,682,970, 7-28-87, Cl. 446-309.
Dubois, Craig; and Mercurio, Dominic G., to Coleco Industries, Figure toy with projectile launching mechanism. 4,689,034, 6-2 Cl. 446-309.000.
DuBois, Dale R.: *See—*
  Learn, Arthur J.; and DuBois, Dale R., 4,641,604, Cl. 118-728

Learn, Arthur J.; and DuBois, Dale R., 4,694,778, Cl. 118-728.000.

DuBois, Donald W.; Dilmore, Colonel R.; and Darlington, W. Bruce, to PPG Industries, Inc. Synthetic diaphragm and process of use thereof. 4,666,573, 5-19-87, Cl. 204-98.000.

DuBois, Donald W.: *See—*

Darlington, W. Bruce; and DuBois, Donald W., 4,680,101, Cl. 204-295.000.

Dubois, Franciscus J. M.: *See—*

Van den Berk, Peter J. T.; Knol, Berend; and Dubois, Franciscus J. M., 4,663,145, Cl. 427-659.000.

Dubois, Jacques: *See—*

Carbonneau, Raymond; and Dubois, Jacques, 4,665,795, Cl. 89-41.030.

Dubois, Jean: *See—*

Roy, Jehan; and Dubois, Jean, 4,684,171, Cl. 297-47.000.

Dubois, Jean C.: *See—*

Decobert, Guy; Dubois, Jean C.; and Soyer, Francoise, 4,661,576, Cl. 526-298.000.

Dubois, Jean G.; and Hesling, Michel. Process for treating glass containers with a protective varnish, and protecting varnish used. 4,636,411, 1-13-87, Cl. 427-314.000.

DuBois, Jean G. Process for treating glass containers for heat sealing. 4,645,550, 2-24-87, Cl. 156-69.000.

Dubois, Jean-Marie: *See—*

Le Caer, Gerard; and Dubois, Jean-Marie, 4,710,246, Cl. 148-403.000.

Dubois, Marcel; and Fagard, Pierre, to Societe Francaise d Equipments pour la Navigation Aerienne (S.N.E.F.A.). Device for displaying symbols by means of a liquid crystal matrix. 4,710,766, 12-1-87, Cl. 340-784.000.

DuBois, Michel: *See—*

Polard, Victor; Palmans, Jean; DuBois, Michel; and Weymeersch, A., 4,670,354, Cl. 428-621.000.

Dubois, Paul: *See—*

Dehennau, Claude; and Dubois, Paul, 4,690,628, Cl. 425-133.500.

DuBois, R. Clark; and Streeter, Robert K., Jr., to DuBois, R. Clark. Automatic sheet feeder for copiers and other machines having sheet transport mechanisms and assemblies therewith. 4,674,735, 6-23-87, Cl. 271-10.000.

DuBois, R. Clark. Stop-mechanism for document copier. 4,674,738, 6-23-87, Cl. 271-258.000.

DuBois, R. Clark. Bottom feed sheet feeding apparatus. 4,688,783, 8-25-87, Cl. 271-10.000.

DuBois, R. Clark. Sheet material feeder for copiers and other sheet processing apparatus. 4,702,466, 10-27-87, Cl. 271-10.000.

DuBois, Russell E., Sr. Interchangeable spacer gauge. 4,676,003, 6-30-87, Cl. 33-168.00R.

Dubost, Dominique, to Rapid S.A. Fastening clip device. 4,684,305, 8-4-87, Cl. 411-174.000.

Dubost, Gerard: *See—*

Bizouard, Alain; and Dubost, Gerard, 4,652,889, Cl. 343-792.500.

Dubovsky, George; and Garner, Terry N., to General Electric Company. Battery charger/remote control for portable radio devices. 4,673,861, 6-16-87, Cl. 320-2.000.

Dubowicz, Palemon W.: *See—*

Campbell, Donn V.; Dubowicz, Palemon W.; and Hoverter, Robert T., 4,700,196, Cl. 343-797.000.

Dubowik, John M., to Cordis Corporation. Non-fused torque control catheter. 4,665,604, 5-19-87, Cl. 29-415.000.

Duboys, Francois-Joseph: *See—*

Schapira, Joseph; Ken, Victor; Duboys, Francois-Joseph; and Regnard, Patrick, 4,670,066, Cl. 148-6.15Z.

Dubreucq, Ivan: *See—*

Pin, Bernard; Delbosse, Andre; and Dubreucq, Ivan, 4,714,976, Cl. 361-114.000.

Dubreuil, Alain; and Pelton, Arthur D., to La Corporation de l'Ecole Polytechnique. Method and apparatus for the continuous monitoring of specific elements in molten substances containing same. 4,645,571, 2-24-87, Cl. 204-1.00T.

Dubreux, Bernard; and Dugenet, Yann, to Atochem. Process of bleaching laundry. 4,699,623, 10-13-87, Cl. 8-111.000.

Dubrinsky, Max M.; and Edwards, Mary S. Treadmill assembly. 4,655,447, 4-7-87, Cl. 272-69.000.

Dubrinsky, Max M.; and Edwards, Mary S. Treadmill assembly. 4,687,196, 8-18-87, Cl. 272-69.000.

Dubroca, Claudie C.; Peirigua, Agues; and Cazeau, Philippe, to Centre National de la Recherche Scientifique. Luminescent material or phosphor having a solid matrix within which is distributed a fluorescent compound, its preparation process and its use in a photovoltaic cell. 4,647,400, 3-3-87, Cl. 252-301.160.

Dubroeucq, Marie-Christine; Le Fur, Gerard R.; and Renault, Christian L. A., to Rhone-Poulenc Sante. Pharmaceutical compositions containing naphthalene-and azanaphthalene-carboxamide derivatives, new naphthalene-and azanaphthalene-carboxamide derivatives and process for their preparation. 4,684,652, 8-4-87, Cl. 514-254.000.

Dubroeucq, Marie-Christine; Le Fur, Gerard R.; and Renault, Christian L. A., to Rhone-Poulenc Sante. Pharmaceutical compositions containing azanaphthalene-carboxamide derivatives, azanaphthalene-carboxamide derivatives and process for their use. 4,711,890, 12-8-87, Cl. 514-311.000.

Dubroff, Seymour. Intraocular lenses. 4,642,113, 2-10-87, Cl. 623-6.000.

Dubrosky, Harry A., to General Motors Corporation. Rotary coupler for a robot. 4,683,912, 8-4-87, Cl. 137-580.000.

Dubrow, Robert S.: *See—*

Uken, William D.; and Dubrow, Robert S., 4,643,924, Cl. 428-35.000.

Uken, William D.; and Dubrow, Robert S., 4,662,692, Cl. 339-96.000.

Uken, William D.; Dubrow, Robert S.; Nelson, Carib; and Dittmer, Catherine A., 4,690,831, Cl. 427-44.000.

Dubrowsky, Leonard: *See—*

Milberger, Walter E.; Cohen, Joel R.; and Dubrowsky, Leonard, 4,682,126, Cl. 333-81.00B.

DuBrucq, Denyse C.; and Kondracki, Henry C. Electronic temperature probe. 4,633,885, 1-6-87, Cl. 128-736.000.

Dubrul, William R.; and Heyler, Charles J., III, to McGhan Medical Corporation. Tissue expander with self-contained injection reservoir and reinforcing insert. 4,671,255, 6-9-87, Cl. 128-1.00R.

Dubs, Paul: *See—*

Orban, Ivan; Meier, Hans-Rudolf; Dubs, Paul; Evans, Samuel; and Hofmann, Peter, 4,699,939, Cl. 524-291.000.

Rasberger, Michael; Hofmann, Peter; Meier, Hans R.; and Dubs, Paul, 4,661,594, Cl. 546-22.000.

Rasberger, Michael; Dubs, Paul; and Evans, Samuel, 4,692,258, Cl. 252-50.000.

Dubs, Robert A.: *See—*

Peinecke, Dale R.; Robak, Casimir B., Jr.; and Dubs, Robert A., 4,702,324, Cl. 173-39.000.

Dubuc, Jean A.: *See—*

LaRoche, Allan R.; Butcher, Robert A.; Kelleher, Denis M.; Corriveau, Marcel L. M.; and Dubuc, Jean A., 4,663,894, Cl. 52-15.000.

Dubuisson, Jacques; Le Gal, Pascal; and Boutterin, Rene, to Interconnexions Ceramiques SA. Method of making alumina interconnection substrate for an electronic component. 4,641,425, 2-10-87, Cl. 29-830.000.

Dubuisson, Jacques; Le Gal, Pascal; and Boutterin, Rene, to Interconnexions Ceramiques S.A. Alumina interconnection substrate for an electronic component, and method of manufacture. 4,663,215, 5-5-87, Cl. 428-209.000.

Dubuisson, Leon: *See—*

Dehennau, Claude; Kerger, Marc; and Dubuisson, Leon, 4,657,497, Cl. 425-133.100.

Dubuit, Jean-Louis; and Rouly, Eric, to Societe d'Exploitation des Machines Dubuit. Transfer apparatus for conveying work holder supports along a closed pathway. 4,667,804, 5-26-87, Cl. 198-345.000.

Dubuit, Jean-Louis: *See—*

Rouly, Eric; Dubuit, Jean-Louis; and Marette, Gilles, 4,690,050, Cl. 101-35.000.

DuBuque, Thomas. Box knife. 4,675,996, 6-30-87, Cl. 30-2.000.

Duby, Tomas: *See—*

Tsur, Yuval; Duby, Tomas; and Stokar, Saul, 4,656,424, Cl. 324-309.000.

Duc, Heribert: *See—*

Persson, Tyko; Duc, Heribert; and Buhler, Marcel, 4,650,685, Cl. 426-285.000.

Duc, Jean: *See—*

Jamonet, Bernard; Rigouard, Alain; Bouchez, Jean-Pierre; and Duc, Jean, 4,711,721, Cl. 210-607.000.

Duc, Michel; Montreuil, Philippe; and Meuleman, Jean-Jacques, to Automobiles Citroen; and Automobiles Peugeot. Electric energy distributing devices comprising microprocessors. 4,682,294, 7-21-87, Cl. 364-492.000.

Ducan Steel Benders Ltd.: *See—*

Crosthwaite, Robert P., 4,696,069, Cl. 5-37.00R.

Ducane Company, The: *See—*

Ducate, John S., Jr., 4,697,506, Cl. 99-482.000.

Ducate, John S., Sr., 4,653,635, Cl. 198-468.400.

Ducate, John S., Jr., to Ducane Company, The. Tray for generating food flavoring smoke. 4,697,506, 10-6-87, Cl. 99-482.000.

Ducate, John S., Sr., to Ducane Company, The. Apparatus for assembling blower wheel blades. 4,653,635, 3-31-87, Cl. 198-468.400.

Ducatman, Fred P.; and Flanagan, John D., to PharmaControl Corp. Stable sodium aspirin tablet compositions. 4,686,212, 8-11-87, Cl. 514-161.000.

Ducelleeier et Cie: *See—*

D'Argouges, Bertrand; and Dumas, Pierre, 4,668,887, Cl. 310-154.000.

Duch, David S.; Nichol, Charles A.; and Sigel, Carl W., to Burroughs Wellcome Co. Treatment with dialkoxy pyridopyrimidines. 4,661,490, 4-28-87, Cl. 514-258.000.

Duchamp, Robert; Plever, Roland; and Truchot, Patrick, to Societe d'Etudes et de Recherches de l'Ecole Nationale Superieure d'Arts et Metiers (S.E.R.A.M). Press having an annular inflatable chamber. 4,651,638, 3-24-87, Cl. 100-211.000.

Ducharme, Gerald L., to Eastman Kodak Company. Subbing layer for dye-donor element used in thermal dye transfer. 4,695,288, 9-22-87, Cl. 8-471.000.

Ducharme, Gerard E.: *See—*

Smith, Gordon M.; Chase, Fred G., Sr.; and Ducharme, Gerard E., 4,679,764, Cl. 251-14.000.

Ducharme, Jacques. Scoring saw. 4,706,535, 11-17-87, Cl. 83-863.000.

Ducharme, Roger R.: *See—*

Saba, Robert A.; Ducharme, Roger R.; and Harhen, Paul F., 4,668,043, Cl. 339-177.00R.

Duchenaud, Jacky: *See—*

Bartolo, William; Boillot, Louis; Challande, Rene; De Robertis, Patrick; Duchenaud, Jacky; and Ramaciotti, Jean-Claude, 4,714,907, Cl. 335-45.000.

Duchene, Paul R. Kiln for treating bituminous schists. 4,661,123, 4-28-87, Cl. 48-76.000.

Duchenois, Valere; Fouassier, Michele; and Baudry, Hugues, to U.S. Philips Corporation. Luminescent screen having restored cavities and display tube having such a screen. 4,684,846, 8-4-87, Cl. 313-475.000.
Duchenois, Valere D. L., to U.S. Philips Corporation. Display device comprising a screen cooling circuit. 4,647,810, 3-3-87, Cl. 313-36.000.
Duchenois, Valere D. L.; and Jean, Bernard L. P., to U.S. Philips Corporation. Micro-channel plate support and lead structure. 4,672,193, 6-9-87, Cl. 250-207.000.
Duchet, Christian; and Martin, Rene , to Compagnie Generale D'Electricite. High sensitivity interferential electro-optical modulator. 4,683,448, 7-28-87, Cl. 332-7.510.
Ducheyne, Paul. Porous flexible metal fiber material for surgical implantation. 4,693,721, 9-15-87, Cl. 623-16.000.
Duchin, Daniel, to Monarch Marking Systems, Inc. Tag dispensing and attaching apparatus. 4,634,036, 1-6-87, Cl. 227-67.000.
Duchin, Daniel, to Monarch Marking Systems, Inc. Tag dispensing and attaching method and apparatus. 4,671,442, 6-9-87, Cl. 227-40.000.
Duchin, Daniel, to Monarch Marking Systems, Inc. Tag dispensing and attaching method and apparatus. 4,681,248, 7-21-87, Cl. 227-73.000.
Duchin, Daniel, to Monarch Marking Systems, Inc. Tag dispensing and attaching apparatus. 4,682,721, 7-28-87, Cl. 227-67.000.
Duchin, Daniel, to Monarch Marking Systems, Inc. Tag dispensing and attaching method and apparatus. 4,683,635, 8-4-87, Cl. 29-432.000.
Duchin, Daniel, to Monarch Marking Systems, Inc. Tab dispensing and attaching apparatus. 4,711,369, 12-8-87, Cl. 221-213.000.
Duchossois Industries, Inc.: *See—*
  Paine, Joseph P., 4,653,405, Cl. 102-529.000.
Duchrow, Robert A., to Allen-Bradley Company, Inc. Enclosure seal. 4,699,293, 10-13-87, Cl. 220-378.000.
Duck, Edward W.; and Scheffler, Ingolf, to Teroson G.m.b.H. Sealant compositions and sealed double glazing units. 4,716,070, 12-29-87, Cl. 428-192.000.
Duck, Gary S.; and Sinclair, William J. Reciprocating variable optical attenuator filter. 4,702,549, 10-27-87, Cl. 350-96.150.
Duck, Michael H., to Coronet Industries, Inc. Automatic tube processing apparatus. 4,671,784, 6-9-87, Cl. 493-29.000.
Duckett, John W. Flexible surface mount delineator. 4,636,108, 1-13-87, Cl. 404-10.000.
Duckett, Melvyn; and Limb, David I., to Costain Petrocarbon Limited. Recovery of carbon dioxide from gas mixture. 4,639,257, 1-27-87, Cl. 55-16.000.
Duckett, Steven W.: *See—*
  Purcell, John A.; Puglis, John T.; and Duckett, Steven W., 4,639,638, Cl. 313-534.000.
Duckworth, David K.; and Morley, Frederick W., to Cosworth Engineering Limited. Internal combustion engines. 4,674,463, 6-23-87, Cl. 123-570.000.
Duclos, Alain: *See—*
  Viot, Jean; Piat, Daniel; Duclos, Alain; and Albert, Simone V., 4,665,595, Cl. 24-616.000.
Duclos, Didier A.; and Coutin, Pierre F., to R. Alkan & Cie. Modular devices for loading cartridges on board aircraft. 4,682,529, 7-28-87, Cl. 89-1.510.
Duclos, Gary P.: *See—*
  Bianchini, William L.; and Duclos, Gary P., 4,704,808, Cl. 36-102.000.
Duclos, Jean-Pierre: *See—*
  Goulay, Jean; Choay, Jean; and Duclos, Jean-Pierre, 4,652,555, Cl. 514-56.000.
Ducommun, Michele, legal representative: *See—*
  Schopfer, Pierre-Andre; Richard, Francis, deceased; Richard, Ofelia, legal representative; and Ducommun, Michele, legal representative, 4,658,953, Cl. 198-757.000.
Du Corday, Gerard M. Periodical hanging system and apparatus. 4,681,232, 7-21-87, Cl. 211-46.000.
Ducourant, Thierry, to U.S. Philips Corporation. Clocked comparator. 4,649,293, 3-10-87, Cl. 307-362.000.
Ducourant, Thierry: *See—*
  Binet, Michel J. M.; and Ducourant, Thierry, 4,656,371, Cl. 307-362.000.
Ducourroy, Andre: *See—*
  Masniere, Pierre; and Ducourroy, Andre, 4,665,743, Cl. 73-170.00R.
Ducret, Bernard: *See—*
  Geisen, Pierre; Reillaudoux, Jean-Claude; and Ducret, Bernard, 4,680,913, Cl. 52-746.000.
Ducret, Lucien C. Cable slitting tool. 4,674,183, 6-23-87, Cl. 30-90.100.
Ducret, Lucien C. Bushing for BX cable. 4,683,350, 7-28-87, Cl. 174-83.000.
Ductmate Industries, Inc.: *See—*
  Arnoldt, Peter J.; and Arnoldt, Fredrick J., 4,639,574, Cl. 219-125.100.
  Arnoldt, Peter J., 4,662,661, Cl. 285-363.000.
Duda, Donald J.: *See—*
  Tomkins, David A.; Tait, William S.; and Duda, Donald J., 4,668,507, Cl. 424-45.000.
Duda, Henry J. Flexible hinge rain sealing mechanism. 4,634,172, 1-6-87, Cl. 296-163.000.
Dudar, Erzsebet: *See—*
  Gorog nee Privitzer, Katalin; Bodnar, Laszlo ; Dudar, Erzsebet; Kocsis nee Bagi, Maria; Gaal, Sandor; Tasnadi, Marta; Egyhazi nee Csizmadia, Eva; Varga, Valeria M.; Kajati, Istvan; Kis, Gyorgy; Molnar, Janos; Toth, Bertalan; Cserhati nee Botka, Ilona; Kaptas, Tibor; and Csete, Sandor, 4,661,477, Cl. 514-76.000.
  Gorog nee Privitzer, Katalin; Bodnar, Laszlo; Dudar, Erzsebet; Kocsis nee Bagi, Maria; Gaal, Sandor; Tasnadi, Marta; Egyhazi nee Csizmadia, Eva; Varga, Valeria M.; Kajati, Istvan; Kis, Gyorgy; Molnar, Janos; Toth, Bertalan; Cserhati nee Botka, Ilona; Kaptas, Tibor; and Csete, Sandor, 4,675,431, Cl. 558-218.000.
Dudar, Thomas E.: *See—*
  Makaryk, Walter A.; Dudar, Thomas E.; and Zentz, Mary K., 4,698,061, Cl. 604-408.000.
Dudder, Ulrich: *See—*
  Jurgensen, Peter J.; and Dudder, Ulrich, 4,652,106, Cl. 354-325.00
Duddy, Gerald J.: *See—*
  Henderson, James A.; Travlos, Constantine M.; Ferris, David S.; Duddy, Gerald J.; and Mercier, Roland F., 4,683,636, Cl. 29-564.600.
Dudeck, David H., to Heron Manufacturing, Inc. Upright jig 4,713,907, 12-22-87, Cl. 43-42.390.
Dudek, Dietmar: *See—*
  Sondergeld, Manfred A. J.; Dudek, Dietmar; and Hossner, Klaus 4,683,190, Cl. 430-281.000.
Dudek, Evelin. Disposable diaper. 4,642,110, 2-10-87, Cl. 604-385.10
Dudek, Guenther: *See—*
  Schroeder, Guenter; Dudek, Guenther; and Schrader, Heinolf 4,673,814, Cl. 250-506.100.
Dudek, Peter P.: *See—*
  Borg, Bo I. B.; and Dudek, Peter P., 4,660,747, Cl. 222-213.000.
Dudill, Roger: *See—*
  Riley, Eric K.; Dudill, Roger; and Young, Philip J., 4,673,348, C 431-115.000.
Dudin, Vladimir P.: *See—*
  Ovchinnikov, Alexandr A.; Dudin, Vladimir P.; Konov, Vyache lav V.; Khlybov, Vyacheslav I.; Rapoport, Jury M.; Gorbunov Boris N.; Makarova, Evgenia S.; Davituliani, Valentin V.; an Zaitseva, Svetlana I., 4,642,354, Cl. 548-473.000.
Dudley, Dana; and Hefner, Charles C., to Texas Instruments Incorpo rated. Signal peaking device for single-line video input. 4,667,23 5-19-87, Cl. 358-166.000.
Dudley, Daniel P., to Trailer Marine Transport. Lug attachmen 4,659,273, 4-21-87, Cl. 411-373.000.
Dudley, Dwight A., II: *See—*
  Halabisky, Donald D.; and Dudley, Dwight A., II, 4,690,835, C 427-210.000.
Dudley, Harold J. T.: *See—*
  Dudley, Thomas I.; and Dudley, Harold J. T., 4,649,953, C 137-148.000.
Dudley, Hubert T.: *See—*
  Young, Kenneth E.; Dudley, Hubert T.; and Frohlich, Robert 4,641,471, Cl. 52-361.000.
  Young, Kenneth E.; Dudley, Hubert T.; and Frohlich, Robert 4,641,472, Cl. 52-361.000.
Dudley Industries Limited: *See—*
  Fielding, Robert M. G., 4,634,192, Cl. 312-37.000.
Dudley, Jerry W.; and Andrich, Patrick J., to Metropolitan Steved Company. Safety cage for attending to locks on cargo containe 4,705,140, 11-10-87, Cl. 182-3.000.
Dudley, Lynn A.; and Kamentser, Boris B., to Corona Clipper Co pany. Back-pack power supply for pneumatic hand tools. 4,662,5 5-5-87, Cl. 224-211.000.
Dudley, Ralph S., to Animal Healthcare Products. Catheter. 4,639,2 1-27-87, Cl. 604-158.000.
Dudley, Robert H.: *See—*
  Areaux, Larry D.; and Dudley, Robert H., 4,702,768, Cl. 65.00R.
  Areaux, Larry D.; and Dudley, Robert H., 4,710,126, 432-58.000.
Dudley Shearing Machine Manufacturing Company Limited, T *See—*
  Pardoe, Raymond, 4,669,187, Cl. 30-154.000.
Dudley, Thomas I.; and Dudley, Harold J. T., to Thomas Du Limited. Siphon assembly for flushing cisterns. 4,649,953, 3-17-87 137-148.000.
Dudley, Wayne C., to Top-Air Manufacturing, Inc. Break away boom assembly. 4,634,051, 1-6-87, Cl. 239-168.000.
Dudley, Wayne C., to Top-Air Manufacturing, Inc. Self-leveling b assembly. 4,650,117, 3-17-87, Cl. 239-168.000.
Dudnick, Steven L. Creative art medium for forming artistic ex sions having a latent luminescent image pattern. 4,708,817, 11-2 Cl. 252-301.160.
Dudzik, Henryk, to Mardon Illingworth, Ltd. Tap for a liquid tainer. 4,640,493, 2-3-87, Cl. 251-342.000.
Dudzik, Henryk, to R. W. Simon Limited. Strip ventilator. 4,70 10-20-87, Cl. 98-98.000.
Dudzik, Joachim; and Dudzik, Winfried. Labeling apparatus improved label transport control. 4,658,982, 4-21-87, Cl. 221-1
Dudzik, Winfried: *See—*
  Dudzik, Joachim; and Dudzik, Winfried, 4,658,982, Cl. 221-1
Duell, Graham: *See—*
  Whitehead, David; Duell, Graham; and Jordon, Donald, 4,64 Cl. 128-84.00C.
Duello, Dennis E. Bi-fold toolbar. 4,646,851, 3-3-87, Cl. 172-776
Duembgen, Gerd: *See—*
  Broecker, Franz J.; Duembgen, Gerd; Fouquet, Gerd; K Richard; Merger, Franz; and Nees, Friedbert, 4,638,0 560-208.000.
Duenas, Oswaldo A. Quick change, adjustable tool holder. 4,6 7-28-87, Cl. 82-36.00R.
Duenisch, Ingo; and Lausch, Michael, to Heimann GmbH. G charge lamp with sintered cathode. 4,672,268, 6-9-87, Cl. 313-6

Duerichen, Johann G. Wood or coal burning heater. 4,677,965, 7-7-87, Cl. 126-76.000.

Duerig, Thomas; Escudier, Marcel; and Keller, Jakob, to BBC Brown, Boveri & Company, Limited. Process for atomizing liquid metals to produce finely granular powder. 4,640,806, 2-3-87, Cl. 264-9.000.

Duerig, Thomas: *See—*
Albrecht, Joachim; and Duerig, Thomas, 4,637,962, Cl. 428-616.000.

Duering, Walter: *See—*
Burke, Peter A.; Duering, Walter; and Gut, Martin, 4,705,181, Cl. 215-220.000.

Dueringer, Rudi, to S. Franzen Sohne (GmbH & Co.). Permutation lock having rotary dials and a dial locking spring. 4,644,767, 2-24-87, Cl. 70-312.000.

Dueringer, Rudi, to S. Franzen Sohne GmbH & Co. Closure mechanism for suitcases or the like. 4,679,833, 7-14-87, Cl. 292-113.000.

Duerr, Dennis. Wood splitter. 4,700,759, 10-20-87, Cl. 144-193.00A.

Duerrschnabel, Wolfgang; Puckert, Franz; Stueer, Heinrich; and Bletschacher, Max, to Weiland-Werke AG. Copper-chromium-titanium-silicon alloy and application thereof. 4,678,637, 7-7-87, Cl. 420-490.000.

Duescher, Wayne O.: *See—*
Amundsen, Louis R.; Patterson, Robert P.; Baxter, Tanya L.; Scudder, Glenn N.; Duescher, Wayne O.; Danlman, Willis E.; Schukar, Gary W.; and Steinback, Clarence L., 4,702,108, Cl. 73-379.000.

Duester, Everett: *See—*
Blanchard, Russell O.; and Duester, Everett, 4,653,678, Cl. 223-85.000.

Duewelhenke, Rainer; and Meyer, Joachim, to Frisch Kabel-und Verseilmaschinenbau GmbH. Withdrawing fiber optics from storage plates. 4,651,937, 3-24-87, Cl. 242-45.000.

Dueymes, Eric: *See—*
Cerdan, Jean-Pierre; Dueymes, Eric; Talleu, Patrick; Carnel, Jean; Palacio, Gerard; and Franzonni, Marc, 4,650,578, Cl. 210-197.000.

Dufau, Oscar R.; Siddiqui, Kabir; and Schoepe, Adolf, to Fluidmaster, Inc. Pressure activated cleaner discharge for toilets and the like. 4,656,676, 4-14-87, Cl. 4-228.000.

Dufau, Oscar R.: *See—*
Schoepe, Adolf; Dufau, Oscar R.; and Siddiqui, Kabir, 4,703,653, Cl. 73-322.500.

Dufau, Philippe: *See—*
Blond, Marcel; and Dufau, Philippe, 4,666,024, Cl. 192-70.160.

Dufaylite Developments Limited: *See—*
Thwaites, Peter J., 4,649,089, Cl. 428-913.000.

Duff, Bill. Fishing boat with integral tackle box. 4,662,303, 5-5-87, Cl. 114-343.000.

Duff, Bob M., to Southwest Research Institute. Directional antenna system for use in a borehole incorporating antenna dipole elements. 4,689,569, 8-25-87, Cl. 324-338.000.

Duff, Don. Shallow water boat design. 4,713,028, 12-15-87, Cl. 440-61.000.

Duff, Harry F.: *See—*
Boudin, Leon L.; and Duff, Harry F., 4,659,322, Cl. 493-57.000.

Duff, Kenneth S., to Durolla Products (N.Z.) Limited. Toilet roll holder and dispenser. 4,697,754, 10-6-87, Cl. 242-55.300.

Duff Norton Company: *See—*
Ferguson, George R., 4,691,452, Cl. 34-119.000.

Duffey, Craig L.: *See—*
Schieser, Warren J.; Vickers, Stanley E.; and Duffey, Craig L., 4,676,285, Cl. 141-114.000.

Duffin, Leon C.: *See—*
Roberts, Auston K.; Trainer, William E.; Nakamura, Steve; Duffin, Leon C.; and Biederman, David L., 4,686,094, Cl. 423-322.000.

Dufford, Edward L.: *See—*
Chang, Wen H.; Prucnal, Paul J.; Peffer, John R.; Dufford, Edward L.; and Ambrose, Ronald R., 4,714,738, Cl. 525-58.000.
Chang, Wen-Hsuan; Dufford, Edward L.; Erikson, J. Alden; and Prucnal, Paul J., 4,678,835, Cl. 525-100.000.
Chang, Wen-Hsuan; Blackburn, William P.; Prucnal, Paul J.; and Dufford, Edward L., 4,684,697, Cl. 525-100.000.

Duffour et Igon S.A. (D.I.): *See—*
Vigneau, Jean L.; and Trenque, Pierre, 4,693,235, Cl. 126-263.000.
Vigneau, Jean-Louis; Trenque, Pierre; and Rivoire, Bruno, 4,683,905, Cl. 137-329.100.

Dufft, Jurgen, to Tudor Webasto Limited. Actuator for an openable vehicle roof. 4,645,259, 2-24-87, Cl. 296-223.000.

Duffy, Christene; and Necakov, Ivan, to Duffy, Christene. Container. 4,653,671, 3-31-87, Cl. 222-105.000.

Duffy, Edward P.; Craggs, Geoffrey B.; and McGlade, David, to Marconi Avionics Limited. Display systems. 4,653,012, 3-24-87, Cl. 364-518.000.

Duffy, James J., to Ford Motor Company. Speed sensitive power steering pump unload valve. 4,714,413, 12-22-87, Cl. 417-293.000.

Duffy, Thomas F. Hand saws. 4,680,863, 7-21-87, Cl. 30-511.000.

DuForest, Rene; and Roussel, Albert, to Sommer S.A. Process and apparatus for producing synthetic decorative covering. 4,675,216, 6-23-87, Cl. 427-56.100.

Duforestel, Guy G.; Lechaczynski, Michel A.; Poiraud, Clement Y.; and Viallon, Paul P., to International Business Machines Corporation. Device for serializing/deserializing bit configurations of variable length. 4,680,733, 7-14-87, Cl. 364-900.000.

Dufoug, Gilbert E., to Ets. Bonnet. Controlled-access apparatus for the agricultural food industries. 4,683,381, 7-28-87, Cl. 307-125.000.

Dufour, Alain: *See—*
Badinier, Christian; Louhichi, Alain; Annichini, Andre; and Dufour, Alain, 4,675,052, Cl. 134-8.000.

Dufour, Jean-Claude: *See—*
Najer, Henry; Giudicelli, Jean-Francois; and Dufour, Jean-Claude, 4,663,340, Cl. 514-401.000.

DuFour, Kenneth S. Differential pressure biased spool type valve controller for a pneumatic dual diaphragm control system. 4,655,378, 4-7-87, Cl. 226-23.000.

DuFour, Kenneth S. Spring biased spool type valve controller for a pneumatic dual diaphragm control system. 4,666,073, 5-19-87, Cl. 226-23.000.

Dufour, Marcel, to Cofpa. Method for seaming a papermaker's fabric. 4,683,624, 8-4-87, Cl. 28-141.000.

Dufour, Mark D.: *See—*
Kurtz, John A.; Cousens, Donald E.; and Dufour, Mark D., 4,685,631, Cl. 242-47.000.

Dufour, Michel, to Thomson-CSF. Process for photolithographing a thick layer of paste deposited on a substrate. 4,711,835, 12-8-87, Cl. 430-314.000.

Dufrasnes, Jean-Claude, to Ateliers de Constructions Electriques de Charleroi (ACEC) Societe Anonyme. Electrical contacts for oscillating yoke of load selector. 4,638,127, 1-20-87, Cl. 200-11.00K.

Dufrasnes, Jean-Claude, to Ateliers de Constructions Electriques de Charleroi (ACEC) Societe Anonyme. Transformer crankshaft load selector. 4,647,731, 3-3-87, Cl. 200-11.0TC.

DuFrene, Clement O., to Rosenmeier, Gordon, a part interest. Rotary fluid devices. 4,653,603, 3-31-87, Cl. 180-146.000.

Dufrenne, Gerald, to Unitek Corporation. Weld resistance measuring apparatus for a spot welder. 4,639,569, 1-27-87, Cl. 219-109.000.

DuFresne, Eugene R., to United States of America, National Aeronautics and Space Administration. Method of evaporation. 4,666,561, 5-19-87, Cl. 203-90.000.

Dufresne, Jacques. Metal melting installation. 4,664,624, 5-12-87, Cl. 432-56.000.

Dufresne, Joel R.; and Dieken, Alan P., to Minnesota Mining and Manufacturing Company. Electrical stimulator for biological tissue utilizing linear current output circuit. 4,686,991, 8-18-87, Cl. 128-421.000.

Dufresne, Joel R.; ReMine, Walter J.; and King-Smith, Eric A., to Minnesota Mining and Manufacturing Company. Electrical stimulator for biological tissue having mode control. 4,688,574, 8-25-87, Cl. 128-421.000.

Dufresne, Joel R.; and Dieken, Alan P., to Minnesota Mining and Manufacturing Company. Electrical simulator for biological tissue having remote control. 4,699,143, 10-13-87, Cl. 128-419.00R.

Dufresne, Joel R.: *See—*
Dieken, Alan P.; and Dufresne, Joel R., 4,706,674, Cl. 128-419.00R.
King-Smith, Eric A.; ReMine, Walter J.; and Dufresne, Joel R., 4,690,145, Cl. 128-421.000.

Dufresne, Pierre; Marcilly, Christian; and Trinh, Dinh Chan, to Institut Francais du Petrole. Hydrocracking catalyst and process for manufacturing the same. 4,645,752, 2-24-87, Cl. 502-66.000.

Dufresne, Ralph E.; and Brauns, Douglas A., to Boeing Company, The. Apparatus for determining the etch rate of nonconductive materials. 4,662,975, 5-5-87, Cl. 156-345.000.

Dufresne, Yves: *See—*
Monet, Paul E.; and Dufresne, Yves, 4,674,111, Cl. 379-58.000.

Duga, Robert J., to Emhart Industries, Inc. Positive drive override mechanism. 4,667,533, 5-26-87, Cl. 74-584.000.

Dugan, Jeffrey S., to Springs Industries, Inc. Mattress pad and fitted bed sheet. 4,682,379, 7-28-87, Cl. 5-500.000.

Dugan, Larry M., to Adolph Coors Company. Can filling system to prevent damage to cans. 4,664,159, 5-12-87, Cl. 141-1.000.

Dugan, Michael J.: *See—*
Banzi, Frederick J., Jr.; Dugan, Michael J.; and Sharper, Craig A., 4,675,862, Cl. 370-15.000.
Banzi, Frederick J., Jr.; Dugan, Michael J.; Johnson, Randolph W.; Saylor, Douglas D.; and Sharper, Craig A., 4,688,209, Cl. 370-15.000.

Dugan, Thomas J. Sliding door lock. 4,648,252, 3-10-87, Cl. 70-100.000.

Dugan, William P., to General Dynamics, Pomona Division. Fine line circuitry probes and method of manufacture. 4,647,851, 3-3-87, Cl. 324-158.00P.

Dugan, William P., to General Dynamics, Pomona Division. Fine line circuitry probes and method of manufacture. 4,649,338, 3-10-87, Cl. 324-158.00P.

Dugas, Roger A., to Hewlett-Packard Company. Support for transformer windings. 4,714,909, 12-22-87, Cl. 336-192.000.

Dugdale, Marion: *See—*
Lasslo, Andrew; Quintana, Ronald P.; Dugdale, Marion; and Johnson, Randy W., 4,634,709, Cl. 514-316.000.
Lasslo, Andrew; Quintana, Ronald P.; and Dugdale, Marion, 4,657,917, Cl. 514-315.000.

Dugenet, Yann: *See—*
Dubreux, Bernard; and Dugenet, Yann, 4,699,623, Cl. 8-111.000.

Duggan, Alain J. Treatment of boiler tubes. 4,658,761, 4-21-87, Cl. 122-235.00C.

Duggan, D. Michael; Myers, Harry K., Jr.; and Lyons, James E., to Sun Refining and Marketing Company. Ruthenium-cobalt carbonyl catalysts for the dealkoxyhydroxymethylation of acetals to form glycol ethers. 4,652,542, 3-24-87, Cl. 502-154.000.

Duggan, D. Michael; Myers, Harry K., Jr.; and Lyons, James E., to Sun Refining and Marketing Company. Ruthenium-cobalt carbonyl catalysts for the dealkoxyhydroxymethylation of acetals to form glycol ethers. 4,663,489, 5-5-87, Cl. 568-678.000.

Duggan, D. Michael; Lyons, James E.; and Myers, Harry K., Jr., to Sun Refining and Marketing Company. Phosphite-promoted ruthenium-cobalt catalysts for the dealkoxyhydroxymethylation of acetals to form glycol ethers. 4,692,426, 9-8-87, Cl. 502-154.000.

Duggan, Jack, to Fire Detection Devices Ltd. Fire detector. 4,651,140, 3-17-87, Cl. 340-589.000.

Duggan, Stephen R., to Medtronic, Inc. Drug administration device. 4,692,147, 9-8-87, Cl. 604-93.000.

Dugge, Richard H.; and Cordani, Eugene J., to ACF Industries, Incorporated. High volume covered hopper car with loading from below and automatic unloading. 4,677,917, 7-7-87, Cl. 105-248.000.

Dugger, Michael D., to Petro Fill, Inc. Method for underground storage tank abandonment. 4,693,284, 9-15-87, Cl. 141-1.000.

Dugger, Michael N.; and Hampton, Jack S., to Occidental Chemical Agricultural Products, Inc. Heat exchange apparatus useful for melting sulfur. 4,651,817, 3-24-87, Cl. 165-86.000.

Duggins, Ray B., to Du Pont de Nemours, E. I., and Company. Hollow fiber plasmapheresis process. 4,668,399, 5-26-87, Cl. 210-637.000.

Duggins, Ray B.: *See—*
  Di Luccio, Robert C.; Duggins, Ray B.; and Shefter, Eli, 4,673,565, Cl. 424-443.000.

Dugle, Thomas E. Rectilinearly traveling vehicle. 4,678,051, 7-7-87, Cl. 180-9.100.

Dugliss, Charles H., to American Cyanamid Company. Chemiluminescent composition. 4,678,608, 7-7-87, Cl. 252-700.000.

Dugot, Richard S., to Biolectron, Inc. Audiometer. 4,667,683, 5-26-87, Cl. 128-746.000.

Dugre, Jean-Pierre: *See—*
  Arnould, Emmanuel; and Dugre, Jean-Pierre, 4,675,836, Cl. 364-725.000.
  Arnould, Emmanuel; and Dugre, Jean-Pierre, 4,679,163, Cl. 364-725.000.

Duguay, Michel A.; Koch, Thomas L.; Kokubun, Yasuo; and Pfeiffer, Loren N., to American Telephone and Telegraph Company. Optical waveguide utilizing an antiresonant layered structure. 4,715,672, 12-29-87, Cl. 350-96.120.

Duhaime, Paul T.; and Spector, George. Mail detector. 4,651,135, 3-17-87, Cl. 340-569.000.

DuHamel, Raymond H. Dual polarized sinuous antennas. 4,658,262, 4-14-87, Cl. 343-792.500.

DuHamel, Raymond H.: *See—*
  Werner, William L.; and DuHamel, Raymond H., 4,656,485, Cl. 343-876.000.

Duheille, Jean; Pau, Bernard; and Gros, Pierre, to Sanofi. Nephelometric determination of HB_s antigen with antibody-containing microparticles. 4,690,906, 9-1-87, Cl. 436-512.000.

Duijkers, Peter A., to U.S. Philips Corporation. Picture display device comprising a noise detector. 4,636,860, 1-13-87, Cl. 358-148.000.

Duin, Peter B.: *See—*
  Spaanenburg, Lambertus; Duin, Peter B.; Woudsma, Roberto; and van der Poel, Arie A., 4,656,592, Cl. 364-490.000.

Duina, Franco G., to F. J. Littell Machine Co. Work piece transporting apparatus. 4,643,634, 2-17-87, Cl. 414-749.000.

Duinker, Simon; and Vlasbloem, Hugo, to N.V. Optische Industrie "De Oude Delft". Apparatus for slit radiography. 4,675,893, 6-23-87, Cl. 378-151.000.

Duinker, Simon; and Vlasbloem, Hugo, to N.V. Optische Industrie "De Oude Delft". Apparatus for slit radiography. 4,677,652, 6-30-87, Cl. 378-151.000.

Duinker, Simon: *See—*
  Vlasbloem, Hugo; and Duinker, Simon, 4,715,056, Cl. 378-152.000.

Dujardin, George J. P.: *See—*
  Lippits, Gerardus J. M.; Legierse, Petrus E. J., and Dujardin, George J. P., 4,668,549, Cl. 428-65.000.

Dujardin, Thierry: *See—*
  Bethuel, Louis; Martin, Laurent; and Dujardin, Thierry, 4,636,290, Cl. 204-186.000.

Dujka, Bernhard: *See—*
  Chatzipetros, Johann; Dujka, Bernhard; Elf, Frank; and Will, Georg, 4,644,761, Cl. 62-514.00R.

Dukai, Jozsef: *See—*
  Matolcsy, Gyorgy; Gimesi, Antal; Pelejtei nee Bauer, Krisztina; Sztatisz, Janisz; Tombor nee Szotyori, Agota; Cserhati, Tibor; Gerlei nee Komaromy, Aniko ; Kardos nee Nikoletti, Mariann; Dukai, Jozsef; Sebok, Dezso; Soptei, Csaba; Nagy, Lajos; and Belai, Ivan, 4,672,112, Cl. 536-46.000.

Dukane Corporation: *See—*
  Keysor, Charles W., 4,651,112, Cl. 330-297.000.

Dukarich, Gary S.: *See—*
  Rockwell, Lynn H.; and Dukarich, Gary S., 4,645,869, Cl. 178-18.000.

Duke, Christopher C.: *See—*
  Varnum, Gerald F.; and Duke, Christopher C., 4,691,573, Cl. 73-702.000.

Duke Insulation Company, Inc.: *See—*
  Dozzo, John J., 4,715,156, Cl. 52-404.000.

Duke, Jack L.: *See—*
  White, Dowell; Craig, Daniel L.; Duke, Jack L.; and Laurie, Donald H., 4,637,211, Cl. 60-650.000.

Duke, Martin G., to British-American Tobacco Company Limited. Smoking article mouthpiece elements. 4,644,964, 2-24-87, Cl. 131-336.000.

Duke, Martin G.: *See—*
  Horsewell, Henry G.; and Duke, Martin G., 4,649,942, Cl. 131-336.000.
  Horsewell, Henry G.; and Duke, Martin G., 4,660,576, Cl. 131-336.000.
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Duneczky, Francis: *See*—
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Dunfee, David C. Waterbed sheet and insert means therefor. 4,686,726, 8-18-87, Cl. 5-485.000.

Dunfield, John C.: *See*—
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- Swartwout, Richard J., 4,647,801, Cl. 310-41.000.

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Dunisch, Ingo, to Heimann GmbH. Method of making a wall stabiliz infrared flash tube. 4,690,652, 9-1-87, Cl. 445-28.000.

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Dunkel, Kelvin, to Perkins Engines Group Limited. Apparatus fo measuring smoke density. 4,647,780, 3-3-87, Cl. 250-573.000.

Dunker, Friedrich W.: *See*—
- Rentrop, Peter W.; Trapp, Gunter H.; and Dunker, Friedrich W. 4,657,432, Cl. 405-24.000.

Dunkerly, Cedric A., II: *See*—
- Kennard, Gregory J.; and Dunkerly, Cedric A., II, 4,636,40 C 428-110.000.
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Dunkerton, Stephen H.; Reynolds, Gary R.; Chapman, Scott G.; an Erickson, Gary D., to Motorola, Inc. individual simulcast stat control system. 4,642,633, 2-10-87, Cl. 340-825.760.

Dunkerton, Stephen H.; Erickson, Gary D.; and Reynolds, Gary R., t Motorola, Inc. Individual simulcast transmitter remote control sy tem encoder. 4,701,758, 10-20-87, Cl. 340-825.480.

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- Wheeler, James E.; Hardy, Robert M.; Dunki-Jacobs, Robert J. and Premerlani, William J., 4,694,416, Cl. 364-736.000.

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Dunkle, Steven R.; and Mason, Charles D., to Allied Corporatio Impact modified polyester blends. 4,659,767, 4-21-87, Cl. 524-504.0

Dunkle, Steven R.; and Haylock, John C., to Allied Corporatio Polyester molding compositions. 4,687,795, 8-18-87, Cl. 523-436.0

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Dunlap, Bill D., to KB Denver, Inc. Method in a snap dome swi keyboard assembly for reducing contact bounce time. 4,703,1 10-27-87, Cl. 200-76.000.

Dunlap, Harold E.; and Goodnow, Ronald F., to Thermo Electr Web Systems, Inc. Finger-type doctor blade holder. 4,665, 5-19-87, Cl. 118-126.000.

Dunlap, Richard L.: *See*—
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Dunlap, Thomas G.: *See*—
- Nelson, Harold L.; Dunlap, Thomas G.; Johansson, Eric B.; Matzner, Bruce, 4,675,154, Cl. 376-444.000.

Dunlop Limited: *See*—
- Atkin, Howard S.; and Forth, Geoffrey A., 4,681,377, Cl. 35.0EB.
- Atkin, Howard S., 4,687,261, Cl. 305-57.000.
- Bell, Raymond W. H., 4,698,369, Cl. 521-99.000.
- Clark, Michael; and Taylor, Kenneth J., 4,641,817, Cl. 267-14
- Clark, Michael, 4,682,753, Cl. 248-562.000.
- Glaessgen, Herbert; and Kleinheinz, Wolfgang, 4,693,474, 273-73.00C.
- Griffiths, Alan D., 4,688,604, Cl. 138-129.000.
- Harrison, Reginald, 4,690,388, Cl. 267-35.000.
- Heitzenroder, Hans; and Merz, Eckhard, 4,715,496, 206-213.100.

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- Harvey, Ross H.; Wobcke, Graham W.; Rogers, Antony W.; Fenwick, Robert R., 4,650,579, Cl. 210-199.000.

Mathias, Anthony D., 4,686,916, Cl. 112-121.120.

Mathias, Anthony D., 4,712,782, Cl. 271-21.000.

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deSouza, Antonio S., 4,684,353, Cl. 445-51.000.

Dunn, Aubrey J., to United States of America, Army. Motion convertor from rotary to sine-wave reciprocation. 4,646,580, 3-3-87, Cl. 74-44.000.

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Dunn, Bruce S.: See—

Farrington, Gregory C.; and Dunn, Bruce S., 4,664,849, Cl. 252-647.000.

Dunn, Charles S.; Propster, Mark A.; and Hohman, Charles M., to Owens-Corning Fiberglas Corporation. Melting furnaces. 4,638,490, 1-27-87, Cl. 373-35.000.

Dunn, Charles S.; Seng, Stephen; and Hickman, Michael D., to Owens-Corning Fiberglas Corporation. Method and apparatus for changing bushings. 4,650,508, 3-17-87, Cl. 65-1.000.

Dunn, Charles S., to Owens-Corning Fiberglas Corporation. Electrode heater. 4,672,627, 6-9-87, Cl. 373-38.000.

Dunn, Charlton, to Rockwell International Corporation. Vented shrouded inducer. 4,642,023, 2-10-87, Cl. 415-53.00R.

Dunn, Cooper L.: See—

Poe, Frank E., Jr.; Schwertner, Dan R.; Dunn, Cooper L.; and Whitby, Melvyn F., 4,715,456, Cl. 175-423.000.

Dunn, George F., Jr., to Du Pont de Nemours, E. I., and Company. Particle separation process. 4,708,710, 11-24-87, Cl. 494-37.000.

Dunn, George T., Jr.: See—

Chimere, Alcide W.; and Dunn, George T., Jr., 4,693,324, Cl. 174-47.000.

Dunn, George W., to WaveTek International, Inc. High-head, low-volume surfing wave pool. 4,692,949, 9-15-87, Cl. 4-491.000.

Dunn, Gregory J.: See—

Kellogg, Edwin M.; Dobbs, John M.; Dunn, Gregory J.; Kaufmann, Henry C.; and Thompson, William, 4,698,236, Cl. 427-43.100.

Dunn, James P., to MicroOffice Systems Technology. Portable computer. 4,667,299, 5-19-87, Cl. 364-708.000.

Dunn, Jerry G.: See—

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Dunn, John P.; Collins, Kent L.; and King, Norman R., to North American Philips Lighting Corp. Method of making support means for discharge lamp tubes. 4,708,679, 11-24-87, Cl. 445-26.000.

Dunn, Joseph E.; and Pearlman, Jay S., to Maxwell Laboratories, Inc. Methods and apparatus for extending the shelf life of fluid food products. 4,695,472, 9-22-87, Cl. 426-237.000.

Dunn, Keh-Jim, to Chevron Research Company. Miniature sapphire anvil cell for reservoir fluid property studies. 4,715,711, 12-29-87, Cl. 356-246.000.

Dunn, Kenon H.; Pack, Michael L.; and Holzhausen, Sonja H., to Cummins Engine Company, Inc. Air filter unit. 4,664,684, 5-12-87, Cl. 55-498.000.

Dunn, Larry W. Air compressor. 4,700,663, 10-20-87, Cl. 123-1.00R.

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Tippens, George W.; Dunn, Lawrence P.; and Pottmeyer, Wayne G., 4,658,363, Cl. 364-472.000.

Dunn, Mark R., to Combustion Engineering, Inc. High efficiency separator system. 4,637,556, 1-20-87, Cl. 241-48.000.

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Musto, Richard L.; and Dunn, Mark R., 4,640,464, Cl. 241-34.000.

Dunn, Michael J., to Boeing Company, The. Projectile with integrated propulsion system. 4,711,414, 12-8-87, Cl. 244-3.220.

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Beskow, Robert H.; Dunn, Patrick J.; Goodacre, John H.; Hall, Larry J.; Fischer, William H.; and Carlson, E. Ronald, 4,695,201, Cl. 405-224.000.

Dunn, Richard L.; and Casper, Robert A., to Southern Research Institute. Method of producing biodegradable prosthesis and products therefrom. 4,655,777, 4-7-87, Cl. 623-16.000.

Dunn, Richard L.: See—

Bays, F. Barry; Dunn, Richard L.; Marchand, Sam; and Treharne, Richard W., III, 4,650,488, Cl. 623-12.000.

Dunn, Robert B.; and Wiltshire, Bruce, to Northern Telecom Limited. Multiple contact zero insertion force connector. 4,682,834, 7-28-87, Cl. 439-267.000.

Dunn, Robert M., to Cadware Group, Ltd., The. Schematic diagram generating system using library of general purpose interactively selectable graphic primitives to create special applications icons. 4,656,603, 4-7-87, Cl. 364-900.000.

Dunn, William F.: See—

Webb, James E., Sr.; and Dunn, William F., 4,644,990, Cl. 160-5.000.

Dunn, William J., to Kendall Company, The. Liquid drainage system having a hook support member. 4,650,478, 3-17-87, Cl. 604-322.000.

Dunn, William J.; and Silver, Brian H., to Kendall Company, The. Acoustic coupling assembly with retaining connector for noninvasive sensing of sampling chamber fluid. 4,691,557, 9-8-87, Cl. 73-32.00A.

Dunn, William W.: See—

Hirsch, Michael; Kristensen, Peter D.; and Dunn, William W., 4,672,845, Cl. 73-151.000.

Dunnagan, Cecil A. Carpet pad knife. 4,713,884, 12-22-87, Cl. 30-294.000.

Dunnavant, William R.; Fechter, Robert B.; Gardikes, John J.; and Langer, Heimo J., to Ashland Oil, Inc. Phenolic resin-polyisocyanate binder systems containing an organohalophosphate and use thereof. 4,683,252, 7-28-87, Cl. 523-143.000.

Dunnavant, William R.: See—

Gruber, Bruce A.; Langer, Heimo J.; and Dunnavant, William R., 4,636,537, Cl. 523-139.000.

Dunnebacke, Joachim A., to U.S. Philips Corporation. Fader circuit arrangement in electrical reproducing apparatus and fader control for such an arrangement. 4,682,364, 7-21-87, Cl. 381-109.000.

Dunnick, Julian S., to Capitol Products Corporation. Window frame members. 4,663,896, 5-12-87, Cl. 52-71.000.

Dunnigan, Gerald; and Bandari, Ardeshir, to Westcan Manufacturing Ltd. Dual stage thermostat and electric space heating system. 4,641,013, 2-3-87, Cl. 219-364.000.

Dunphy, Gerald F.; and Best, Lance E., to Ogden Industries Pty Ltd. Sliding window or door lock. 4,639,022, 1-27-87, Cl. 292-150.000.

Dunphy, Gerald F.; and Newman, Donald J., to Ogden Industries Pty Ltd. Padlock. 4,689,975, 9-1-87, Cl. 70-56.000.

Dunphy, James R.; Meltz, Gerald; and Snitzer, Elias, to United Technologies Corporation. Spatially resolving fiber-optic crosstalk strain sensor. 4,653,906, 3-31-87, Cl. 356-32.000.

Dunromin Enterprises Unlimited, Inc.: See—

Avejic, Katarina, 4,678,465, Cl. 604-397.000.

Dunsay, George: See—

Orenstein, Henry; and Dunsay, George, 4,674,985, Cl. 446-14.000.

Dunseath, W. J. Ross, Jr., to Spring Creek Institute, Inc. Dry electrode system for detection of biopotentials. 4,669,479, 6-2-87, Cl. 128-640.000.

Dunshee, Wayne K., to Minnesota Mining and Manufacturing Company. Tamper indication system. 4,685,578, 8-11-87, Cl. 215-230.000.

Dunsirn, Duane R., to Menasha Corporation. Flexographic printing plate mounting method and apparatus. 4,653,369, 3-31-87, Cl. 83-411.00R.

Dunski, Neil; Bazzi, Ali A.; and Buehler, Henry J., to Mallinckrodt, Inc. Polyol carboxyalkylthioalkanoamidophenol compounds and organic material stabilized therewith. 4,634,728, 1-6-87, Cl. 524-219.000.

Dunski, Neil; Bazzi, Ali A.; and Buehler, Henry J., to Mallinckrodt, Inc. Anti-oxidant isocyanurate ester of thioamidophenol and polyolefins stabilized therewith. 4,680,325, 7-14-87, Cl. 524-101.000.

Dunsmore, Gerald L.: See—

Kerr, Jack R.; Dunsmore, Gerald L.; and Shelton, Thomas V., 4,682,924, Cl. 411-329.000.

Dunsmore, Jerry L.: See—

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Sternberg, Ben K.; Dunster, Donald E.; and Honeycutt, Kenneth D., 4,642,570, Cl. 324-366.000.

Dunsworth, Charles L., to Metalines, Inc. Hygroscopic composition for fire resistant expansion joint cover. 4,649,129, 3-10-87, Cl. 502-407.000.

Dunweg, Gustav: See—

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Potucek, Frank R., 4,684,022, Cl. 206-347.000.

Duo-Therm Corporation, The: See—

Aldrich, Roger L.; Bodett, Peter C.; and Kelly, Richard E., 4,641,502, Cl. 62-244.000.

Duonghong, Dung: See—

Graetzel, Michael; Serpone, Nick; and Duonghong, Dung, 4,684,537, Cl. 427-53.100.

Duparc, Jacques: See—

Foch, Henri; and Duparc, Jacques, 4,642,553, Cl. 323-322.000.

DuPart, Michael S.: See—

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Dupasquier, Guy: See—

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Duperon Corporation: See—

Duperon, Terry L., 4,709,804, Cl. 198-719.000.

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Bekkering, Hendrik M.; and Vulink, Henricus H. M., 4,661,098, Cl. 604-135.000.

Brouwer, Marius S.; Grosscurt, Arnoldus C.; and van Hes, Roelof, 4,656,193, Cl. 514-594.000.

Brouwer, Marius S.; and Grosscurt, Arnoldus C., 4,665,235, Cl. 564-44.000.

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Dolman, Hendrik; and Kuipers, Johannes, 4,649,154, Cl. 514-445.000.

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Roerink, Jan H. G., 4,650,677, Cl. 424-89.000.

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Van Dam, Mathieu J. D.; De Lange, Harrie R.; and Grande, Robert, 4,664,807, Cl. 210-635.000.

Dupin, Thierry, to Rhone-Poulenc Specialites Chimiques. Catalyst for the oxidation of hydrogen sulfide and process for the preparation of the catalyst. 4,640,908, 2-3-87, Cl. 502-243.000.

- Duplatre, Raymond; and De Luca, Paul V., to Porta Systems Corp. Telephone building entrance terminal. 4,645,284, 2-24-87, Cl. 339-94.00A.
- Dupler, Tim: *See—*
    - Purvis, Gene; Phelps, Russell; Dupler, Tim; Landoll, Patrick; and Landoll, Leonard, 4,678,010, Cl. 138-31.000.
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- du Plessis, Gysbert J., to Rotaque (Proprietary) Limited. Hoppers and bogies. 4,633,785, 1-6-87, Cl. 105-176.000.
- du Plessis, Gysbert J., to Rotaque (Proprietary) Limited. Bottom discharge hopper rail car. 4,669,392, 6-2-87, Cl. 105-247.000.
- Duplo Seizo Kabushiki Kaisha: *See—*
    - Ohmori, Masami, 4,647,029, Cl. 270-45.000.
- Dupommier, Jean M., to Goodyear Tire & Rubber Company, The. Device for transferring a tire carcass band. 4,634,489, 1-6-87, Cl. 156-403.000.
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- Dupont, Bo: *See—*
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- Du Pont de Nemours, E. I., and Company: *See—*
    - Abbott, Scot D.; Levin, Herman W.; Kobos, Robert K.; Kilkson, Henn; and Peterson, Dale R., 4,699,887, Cl. 436-70.000.
    - Abe, Hiroshi, 4,676,566, Cl. 439-43.000.
    - Adams, Philip E.; McGowan, Michael J.; and Yunan, Malak E., 4,637,312, Cl. 102-275.120.
    - Allen, John L., Jr.; and Grandstaff, Teddy H., 4,660,147, Cl. 364-468.000.
    - Amuti, Kofi S.; and Sweetser, Philip B., 4,645,527, Cl. 71-90.000.
    - Anderson, Martin, 4,666,942, Cl. 514-594.000.
    - Anderson, Martin, 4,672,139, Cl. 560-16.000.
    - Anderson, Martin, 4,698,365, Cl. 514-594.000.
    - Applegate, Lynn E.; and Sackinger, Clifton T., 4,675,109, Cl. 210-321.100.
    - Arduengo, Anthony J., 4,710,576, Cl. 556-40.000.
    - Artz, Steven P., 4,678,498, Cl. 71-87.000.
    - Artz, Steven P., 4,689,069, Cl. 71-90.000.
    - Aungst, Bruce J.; and Hussain, Munir A., 4,673,679, Cl. 514-282.000.
    - Awano, Yoshiyuki, 4,708,416, Cl. 439-851.000.
    - Awano, Yoshiyuki; and Narita, Hiroshi, 4,713,020, Cl. 439-267.000.
    - Bach, David T.; Gruenke, Roger A.; and Levin, Herman W., 4,681,443, Cl. 356-246.000.
    - Bair, Thomas I., 4,698,414, Cl. 528-339.000.
    - Baitinger, Stacey A.; Brothers, Robert C.; and Dishart, Kenneth T., 4,645,710, Cl. 428-317.700.
    - Bakermans, Frank C.; and Trexler, Charles J., 4,682,129, Cl. 333-184.000.
    - Batzar, Kenneth, 4,687,708, Cl. 428-339.000.
    - Bayless, John H.; Steinberg, Neil I.; and Thirtle, James H., 4,645,731, Cl. 430-271.000.
    - Bayless, John H.; Steinberg, Neil I.; and Thirtle, James H., 4,699,869, Cl. 430-271.000.
    - Bellis, Harold E.; and McBride, Edward F., 4,715,967, Cl. 252-8.551.
    - Bergna, Horacio E., 4,677,084, Cl. 502-8.000.
    - Bergna, Horacio E.; Corbin, David R.; and Sonnichsen, George, 4,683,334, Cl. 564-474.000.
    - Binnersley, Edwin K., and Krueger, William H., 4,640,861, Cl. 428-294.000.
    - Bissot, Thomas C., 4,648,949, Cl. 204-98.000.
    - Bither, Tom A., Jr., 4,699,985, Cl. 549-260.000.
    - Blair, Leslie M.; and Conrad, Roddy M., 4,698,440, Cl. 560-205.000.
    - Blaisdell, Charles T.; Cordes, Walter J.; Heinsohn, George E.; Kook, John F.; and Kosak, John R., 4,698,438, Cl. 558-3.000.
    - Bockrath, Richard E.; and Kirksey, Kirby, 4,708,806, Cl. 210-754.000.
    - Bollin, Ernest, Jr.; and Fletcher, Mark G., 4,678,812, Cl. 514-777.000.
    - Bolt, John D.; and Lukhard, Mark H., 4,657,753, Cl. 423-447.600.
    - Bosworth, Robert T., 4,643,244, Cl. 165-1.000.
    - Brittelli, David R., 4,650,609, Cl. 260-396.00N.
    - Broaddus, Clarke R.; and Gollhardt, Bradley J., 4,712,988, Cl. 425-725.000.
    - Brown, Hugh M., 4,659,361, Cl. 71-90.000.
    - Brugel, Edward G., 4,704,448, Cl. 528-125.000.
    - Bruner, Harold S., Jr., 4,692,549, Cl. 560-204.000.
    - Bryan, Paul J., 4,696,231, Cl. 102-202.500.
    - Bryant, Walter M., III, 4,667,037, Cl. 546-44.000.
    - Buckmaster, Marlin D.; and Morgan, Richard A., 4,675,380, Cl. 528-481.000.
    - Buckmaster, Marlin D., 4,714,756, Cl. 528-481.000.
    - Burn, Ian, 4,640,905, Cl. 501-137.000.
    - Burns, John T., 4,711,812, Cl. 428-401.000.
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    - Caywood, Stanley W., Jr., 4,663,395, Cl. 525-340.000.
    - Caywood, Stanley W., Jr., 4,673,715, Cl. 525-340.000.
    - Cescon, Lawrence A.; Trebilcock, Robert W.; and Moffett, Rober H., 4,714,503, Cl. 149-21.000.
    - Chao, Tze; and Nyquist, Jack K., 4,655,839, Cl. 106-105.000.
    - Chattha, Mohinder S.; and Theodore, Ares N., 4,710,543, C 525-161.000.
    - Chattha, Mohinder S.; and Theodore, Ares N., 4,713,427, C 525-510.000.
    - Chen, Chi-wan; and Schwing, Gregory W., 4,640,704, C 71-92.000.
    - Chou, Richard T., 4,698,392, Cl. 525-189.000.
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    - Christensen, Joel R.; Liang, Paul H.; and Thompson, Mark E 4,685,955, Cl. 71-92.000.
    - Christensen, Joel R., 4,690,705, Cl. 71-90.000.
    - Christini, Theodore P., 4,666,774, Cl. 428-330.000.
    - Christini, Theodore P., 4,711,827, Cl. 428-690.000.
    - Clark, John T.; and Shiffler, Donald A., 4,707,407, Cl. 428-361.00
    - Cluff, Stephen L.; and Strolle, Clifford H., 4,665,128, C 525-131.000.
    - Coker, James N., 4,680,344, Cl. 525-176.000.
    - Cole, Paul M.; Johanson, William G.; McConnell, Ronald F Popper, Peter; and Velvel, William E., 4,659,325, Cl. 494-20.00
    - Connolly, Mark S., 4,664,972, Cl. 428-290.000.
    - Connon, Helen A.; Gorski, Robert A.; Kenyon, William G.; an Yokozeki, Akimichi, 4,715,900, Cl. 134-31.000.
    - Contractor, Rashmikant M., 4,668,802, Cl. 549-259.000.
    - Cope, Charles S.; Kitagawa, Katsunosuke; and Konabe, Kaz 4,639,337, Cl. 260-408.000.
    - Coq, Jean L., 4,684,577, Cl. 428-447.000.
    - Craig, Alan R.; and Gorman, Eileen G., 4,703,018, Cl. 436-515.00
    - Craig, William A.; and Taylor, Barry E., 4,636,332, Cl. 252-514.00
    - Crandall, Terry G.; and Chen, Horng-Yih, 4,698,220, C 423-607.000.
    - Culgan, John M.; and Sherbeck, Leander A., 4,646,667, C 112-262.100.
    - Davis, Richard F., 4,636,562, Cl. 544-354.000.
    - DeBergalis, Michael, 4,636,431, Cl. 428-327.000.
    - De Felice, Charles P.; and Le Roux, Donald F., 4,688,243, C 378-187.000.
    - Dickakian, Ghazi, 4,715,945, Cl. 208-40.000.
    - Dickerson, Wilton H., Jr.; Hsu, Che-Hsiung; and Samuels, Micha R., 4,668,454, Cl. 264-129.000.
    - Dickie, Ray A.; and Qaderi, Saiyed B. A., 4,657,979, C 525-113.000.
    - Dickie, Ray A.; and Oaderi, Saiyed B. A., 4,687,812, C 525-111.000.
    - Di Luccio, Robert C.; Duggins, Ray B.; and Shefter, Eli, 4,673,9 Cl. 424-443.000.
    - Doutrich, Ray C.; and DeShong, George T., 4,690,477, C 439-595.000.
    - Dreibelbis, Richard L.; and Hunt, Oliver L., 4,679,998, Cl. 4 72.00S.
    - Duggins, Ray B., 4,668,399, Cl. 210-637.000.
    - Dumas, Donald J., 4,661,147, Cl. 71-92.000.
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    - Dunn, George F., Jr., 4,708,710, Cl. 494-37.000.
    - Ebersole, Richard C.; and Foss, Robert P., 4,704,198, C 204-182.800.
    - Ebnesajjad, Sina; and Jones, Eugene G., 4,668,453, Cl. 264-78.00
    - Edwards, Donald W., 4,670,145, Cl. 210-321.100.
    - Elarde, Vito D., 4,689,103, Cl. 156-242.000.
    - Elco, Richard A.; and Vandegriff, Hugh R., 4,690,472, C 439-67.000.
    - Elias, John G.; and Jansson, Peter A., 4,638,456, Cl. 364-518.00
    - El-Sayed, Lyla M.; and Taggi, Arthur J., 4,702,984, C 430-115.000.
    - Erhardt, Paul W.; and Matier, William L., 4,692,446, C 514-234.000.
    - Fahmy, Mohamed A. H., 4,683,224, Cl. 514-120.000.
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    - Falcoff, Allan F., 4,702,931, Cl. 427-10.000.
    - Feder, Fred R.; Opsahl, Arthur W.; and Yarbrough, Kenneth 4,650,126, Cl. 241-22.000.
    - Feiring, Andrew E., 4,650,913, Cl. 570-144.000.
    - Fong, Dan S. C., 4,690,865, Cl. 428-341.000.
    - Forrest, Albert W., Jr., 4,679,283, Cl. 26-73.000.
    - Fountain, Frank S.; and Pusey, Donald K., 4,686,563, C 360-38.100.
    - Franklin, John S., 4,634,625, Cl. 428-258.000.
    - Freerksen, Robert W., 4,661,146, Cl. 71-92.000.
    - Freytag, J. William; and Ishikawa, Eiji, 4,657,853, Cl. 435-7.00
    - Fritz, Herbert L., 4,635,358, Cl. 29-853.000.
    - Fusselman, David F., 4,641,902, Cl. 339-91.00R.
    - Gajjar, Bharat J., 4,638,648, Cl. 66-193.000.
    - Gajjar, Bharat J., 4,649,722, Cl. 66-195.000.
    - Gajjar, Bharat J., 4,688,403, Cl. 66-195.000.
    - Gale, David M., 4,693,749, Cl. 106-99.000.
    - Galloway, Lory, 4,650,743, Cl. 430-278.000.
    - Gangal, Subhash V.; and Malhotra, Satish C., 4,636,549, 524-546.000.
    - Gantzhorn, John E., Jr.; McCloud, John W., II; and Uhler, Rob O., 4,698,701, Cl. 360-16.000.
    - Garlick, Russell K.; and Jirousek, Ludek, 4,649,039, Cl. 424-1.
    - Garlick, Russell K., 4,656,280, Cl. 546-20.000.
    - Garrison, William E., Jr., 4,708,980, Cl. 524-412.000.

Gessell, Donald E., 4,699,961, Cl. 526-124.000.
Glajch, Joseph L.; and Kirkland, Joseph J., 4,705,725, Cl. 428-405.000.
Gorondy, Emery J., 4,636,449, Cl. 430-39.000.
Gosser, Lawrence W., 4,681,751, Cl. 423-584.000.
Gregory, Walter A., 4,705,799, Cl. 514-376.000.
Griffiths, Bonnie W.; and Michel, John B., 4,659,686, Cl. 502-183.000.
Grossa, Mario, 4,698,293, Cl. 430-291.000.
Grossa, Mario, 4,716,095, Cl. 430-291.000.
Gruber, Mark B., 4,714,509, Cl. 156-272.200.
Gruenke, Roger A., 4,666,301, Cl. 356-215.000.
Hadley, Henry C., Jr.; and Mazur, Stephen, 4,657,833, Cl. 430-52.000.
Hahn, Marlyn E., 4,691,971, Cl. 439-78.000.
Hamilton, Edward H.; Onstenk, Ralph M.; and Lesscher, Bernardus A., 4,674,650, Cl. 220-319.000.
Hanagan, Mary A.; and Thompson, Mark E., 4,678,502, Cl. 71-93.000.
Hanagan, Mary A.; and Thompson, Mark E., 4,699,650, Cl. 71-92.000.
Hanagan, Mary A., 4,705,556, Cl. 71-90.000.
Hancock, Jack A.; Johnson, Walter D.; and Kennedy, Alan D., 4,639,347, Cl. 264-291.000.
Hancock, Jack A.; Johnson, Walter D.; and Kennedy, Alan D., 4,704,329, Cl. 428-369.000.
Hardam, William M.; Schadt, Frank L., III; and Taggi, Arthur J., 4,668,748, Cl. 526-240.000.
Harlacker, David S., 4,666,424, Cl. 494-60.000.
Hartzell, Stephen L., 4,705,558, Cl. 71-92.000.
Hasircoglu, Alexander W., 4,640,565, Cl. 339-45.00M.
Hasircoglu, Alexander W., 4,679,868, Cl. 439-495.000.
Hasircoglu, Alexander W., 4,687,888, Cl. 200-51.100.
Hasircoglu, Alexander W., 4,697,862, Cl. 439-404.000.
Hay, James V.; Wexler, Barry A.; and Zimmerman, Donna F., 4,666,501, Cl. 71-90.000.
Hay, James V.; and Levitt, George, 4,678,500, Cl. 71-92.000.
Hay, James V.; and Sauers, Richard F., 4,687,508, Cl. 71-92.000.
Hayes, Richard A., 4,705,540, Cl. 55-16.000.
Heinsohn, George E., 4,694,101, Cl. 560-352.000.
Held, Robert P., 4,654,296, Cl. 430-325.000.
Hertler, Walter R.; and Sogah, Dotsevi Y., 4,656,233, Cl. 526-190.000.
Hesson, David P., 4,639,454, Cl. 514-239.000.
Hill, Joel B., Jr.; Stevens, William E.; and Davies, Reg, 4,661,322, Cl. 422-158.000.
Hillemann, Craig L., 4,666,506, Cl. 71-90.000.
Hillemann, Craig L., 4,705,555, Cl. 71-90.000.
Hillemann, Craig L., 4,710,221, Cl. 71-93.000.
Hodge, James D.; and Lee, Kiu-Seung, 4,684,409, Cl. 106-311.000.
Holman, Bruce, III, 4,634,657, Cl. 430-281.000.
Hommes, William J.; and Keegan, John J., Jr., 4,675,582, Cl. 318-38.000.
Hormadaly, Jacob, 4,654,166, Cl. 252-518.000.
Hormadaly, Jacob, 4,707,346, Cl. 423-518.000.
Howell, Gary W., 4,714,210, Cl. 242-55.300.
Huisman, Hendrikus F.; and Pigmans, Henricus J. M., 4,678,705, Cl. 428-315.900.
Hull, Robert E., 4,644,668, Cl. 34-119.000.
Hutchins, Clyde S.; and Shor, Arthur C., 4,656,226, Cl. 525-93.000.
Irwin, Robert S., 4,640,972, Cl. 528-188.000.
Janowicz, Andrew H.; and Melby, Lester R., 4,680,352, Cl. 526-147.000.
Janowicz, Andrew H., 4,694,054, Cl. 526-93.000.
Jansson, Peter A.; Merrill, Michael J.; Owens, Daniel K.; and Rubin, Barry, 4,656,663, Cl. 382-8.000.
Jansson, Peter A.; Rogers, Wade T.; and Schwaber, James S., 4,672,559, Cl. 364-525.000.
Jennings, Uel D., 4,702,875, Cl. 264-177.130.
Johanson, William G., 4,675,001, Cl. 494-85.000.
John, William W.; Estreicher, Herbert; and Soloway, Samuel B., 4,699,651, Cl. 71-92.000.
Johnson, Bruce B., 4,686,120, Cl. 427-370.000.
Johnson, Van B.; and Adolphson, Douglas G., 4,634,658, Cl. 430-293.000.
Johnson, Van B.; and Nicosia, Salvatore J., 4,712,228, Cl. 378-185.000.
Josey, Alden D., 4,683,091, Cl. 260-543.00R.
Kelly, Renee J., 4,692,481, Cl. 523-219.000.
Kempf, Richard J., 4,716,093, Cl. 430-277.000.
Kettner, Charles A.; and Korant, Bruce D., 4,636,492, Cl. 514-18.000.
Kettner, Charles A.; and Korant, Bruce D., 4,644,055, Cl. 530-330.000.
Kettner, Charles A.; and Korant, Bruce D., 4,652,552, Cl. 514-18.000.
Keys, Dalen E.; and Nebe, William J., 4,636,453, Cl. 430-138.000.
Kinoshita, Toshio; and Hiyama, Naoki, 4,684,183, Cl. 439-77.000.
Klabunde, Ulrich, and Mulhaupt, Rolf, 4,650,778, Cl. 502-8.000.
Klabunde, Ulrich, 4,698,403, Cl. 526-126.000.
Klabunde, Ulrich, 4,716,205, Cl. 526-115.000.
[illegible], Robert J., 4,645,709, Cl. 428-251.000.
Knight, Alan C.; and Malhotra, Satish C., 4,639,497, Cl. 526-93.000.
Korant, Bruce D., 4,675,387, Cl. 530-412.000.
Kordomenos, Panagiotis I.; and Dervan, Andrew H., 4,694,051, Cl. 525-437.000.
Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., 4,698,398, Cl. 525-437.000.
Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., 4,698,399, Cl. 525-449.000.
Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., 4,698,400, Cl. 525-450.000.
Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., 4,698,402, Cl. 525-533.000.
Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., 4,699,955, Cl. 525-440.000.
Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., 4,699,957, Cl. 525-450.000.
Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., 4,699,958, Cl. 525-528.000.
Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., 4,699,959, Cl. 525-528.000.
Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., 4,701,501, Cl. 525-449.000.
Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., 4,701,502, Cl. 525-449.000.
Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., 4,708,995, Cl. 525-450.000.
Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., 4,713,425, Cl. 525-438.000.
Kordomenos, Panagiotis I.; and Dervan, Andrew H., 4,714,743, Cl. 525-418.000.
Kordomenos, Panagiotis I.; and Dervan, Andrew H., 4,714,744, Cl. 525-438.000.
Kordomenos, Panagiotis I.; and Dervan, Andrew H., 4,714,745, Cl. 525-438.000.
Korzeniowski, Stephen H., 4,716,208, Cl. 526-245.000.
Krespan, Carl G., 4,686,300, Cl. 549-313.000.
Lahm, George P., 4,694,013, Cl. 514-345.000.
Larson, James R.; and Trout, Torence J., 4,681,831, Cl. 430-114.000.
Larson, James R., 4,702,985, Cl. 430-115.000.
Lau, Tit-Kueng; and Cohen, Abraham B., 4,698,294, Cl. 430-325.000.
Lechner, Alfred, 4,658,482, Cl. 26-93.000.
Lee, Duk H.; Feierberg, Susan; and O'Brien, Robert E., 4,645,618, Cl. 252-301.170.
Lee, Duk-Hi; Feierberg, Susan F.; and Mayer, Patricia, 4,710,319, Cl. 252-646.000.
Lee, Jerald D., 4,698,649, Cl. 346-108.000.
LeRoux, Donald F.; and Stottlemyer, Quayton R., 4,692,083, Cl. 414-411.000.
Levitt, George, 4,645,529, Cl. 71-90.000.
Levitt, George, 4,645,531, Cl. 71-92.000.
Levitt, George, 4,647,30[illegible], Cl. 71-90.000.
Levitt, George; and Wolf, Anthony D., 4,655,821, Cl. 71-92.000.
Levitt, George, 4,655,822, Cl. 71-92.000.
Levitt, George, 4,659,369, Cl. 71-92.000.
Levitt, George, 4,668,281, Cl. 71-93.000.
Levitt, George, 4,684,395, Cl. 71-92.000.
Levitt, George, 4,687,507, Cl. 71-92.000.
Levitt, George, 4,689,072, Cl. 71-93.000.
Levitt, George, 4,701,535, Cl. 549-60.000.
Levy, Moshe, 4,668,354, Cl. 204-130.000.
Libeskind, Irwin C., 4,699,876, Cl. 435-5.000.
Lim, Hyun S., 4,639,205, Cl. 425-200.000.
Lim, Hyun S., 4,652,322, Cl. 156-181.000.
Lipp, Hayden I.; and Squire, Richard H., 4,668,818, Cl. 560-215.000.
Logothetis, Anestis L.; and Stewart, Charles W., 4,713,418, Cl. 525-200.000.
Logullo, Francis M., Sr.; Wu, Yun-Tai; and Zahr, George E., 4,678,821, Cl. 523-205.000.
Lou, Gene W., 4,684,568, Cl. 428-265.000.
Lowe, David J.; Powell, Richard J.; and Smith, Malcolm S., 4,663,383, Cl. 524-493.000.
Luse, Robert R., 4,668,415, Cl. 252-62.540.
Luoma, Robert P., II; and Willis, Frank M., 4,639,317, Cl. 210-433.200.
Luoma, Robert P., II; and Willis, Frank M., 4,640,776, Cl. 210-433.200.
Lynch, Charles E.; and Wilkinson, William K., 4,698,413, Cl. 525-328.500.
Lyon, John B.; and Stowe, Gerald T., 4,675,450, Cl. 568-360.000.
Magolda, Ronald L.; Confalone, Pasquale N.; and Johnson, Paul R., 4,702,864, Cl. 260-402.500.
Mai, Khuong H. X.; and Patil, Ghanshyam, 4,709,042, Cl. 548-312.000.
Malhotra, Satish C., 4,640,955, Cl. 524-546.000.
Malhotra, Satish C., 4,654,406, Cl. 526-91.000.
Manring, Lewis E.; and Mazur, Stephen, 4,692,360, Cl. 427-443.100.
McClure, George R.; and Vassiliou, Eustathios, 4,698,382, Cl. 524-292.000.
McConnell, Ronald F., 4,715,924, Cl. 156-433.000.
Miller, Conrad E., 4,701,403, Cl. 430-529.000.
Miller, Jeffrey A., 4,670,379, Cl. 435-6.000.
Miller, Joel S., 4,668,533, Cl. 427-98.000.
Mitchell, Robert D., 4,663,264, Cl. 430-115.000.
Moore, Albert L., 4,694,045, Cl. 525-276.000.
Moore, Earl P., Jr., 4,659,823, Cl. 544-212.000.
Moss, Arthur Z., 4,698,372, Cl. 521-145.000.

Moussie, Bob, 4,701,002, Cl. 439-426.000.
Moussie, Bob; and Libregts, Hubertus B., 4,715,825, Cl. 439-391.000.
Mrowca, Joseph J., 4,668,806, Cl. 549-470.000.
Mumaw, Clayton T., 4,666,669, Cl. 422-116.000.
Nahas, Robert C.; and Strolle, Clifford H., 4,659,799, Cl. 528-73.000.
Nahas, Robert C.; and Strolle, Clifford H., 4,713,265, Cl. 427-341.000.
Nair, Kumaran M., 4,645,621, Cl. 252-513.000.
Nair, Kumaran M., 4,652,397, Cl. 252-513.000.
Nair, Kumaran; M., 4,657,699, Cl. 252-513.000.
Nelson, Thomas L., 4,697,317, Cl. 28-258.000.
Nelson, Thomas L., 4,704,856, Cl. 57-228.000.
Nicholson, Michael D.; and Roy, Gerald A., Jr., 4,704,159, Cl. 71-92.000.
Nugent, William A.; and Waller, Francis J., 4,709,085, Cl. 560-124.000.
O'Grady, William R., 4,687,506, Cl. 71-92.000.
Ostapchenko, George J., 4,693,941, Cl. 428-480.000.
Pardini, Steven P., 4,708,870, Cl. 424-81.000.
Pasteris, Robert J.; and Muthukrishnan, Ramaurthi, 4,678,499, Cl. 71-90.000.
Paulson, Charles M., Jr., 4,634,280, Cl. 356-385.000.
Payne, George B.; Soloway, Samuel B.; Powell, James E.; Roman, Steven A.; and Kollmeyer, Willy D., 4,670,041, Cl. 71-92.000.
Perna, Dominic R., 4,705,711, Cl. 428-141.000.
Petersen, W. Christian, 4,683,000, Cl. 71-92.000.
Petersen, Wallace C., 4,675,045, Cl. 71-90.000.
Petersen, Wallace C., 4,678,497, Cl. 71-86.000.
Ponte, John R.; Steffens, James J.; and Estreicher, Herbert, 4,666,499, Cl. 71-86.000.
Potter, Raymond G., 4,701,157, Cl. 494-16.000.
Rajanbabu, Thaliyil V., 4,659,862, Cl. 560-20.000.
Randa, Stuart K., 4,711,811, Cl. 428-383.000.
Randa, Stuart K., 4,716,073, Cl. 428-215.000.
Rao, Velliyur N. M., 4,683,329, Cl. 560-338.000.
Rapoport, Morris, 4,705,881, Cl. 558-338.000.
Rapoport, Morris, 4,714,773, Cl. 558-338.000.
Reich, Shymon, 4,692,387, Cl. 428-545.000.
Reitz, Robert R., 4,678,607, Cl. 252-609.000.
Rellick, Joseph R., 4,655,864, Cl. 156-89.000.
Resnick, Paul R., 4,675,453, Cl. 568-615.000.
Richards, James C.; and Taylor, Robert B., 4,657,869, Cl. 435-287.000.
Rorer, Morris P., 4,668,279, Cl. 71-92.000.
Rorer, Morris P., 4,695,310, Cl. 71-90.000.
Rorer, Morris P., 4,695,311, Cl. 71-92.000.
Rorer, Morris P., 4,699,647, Cl. 71-90.000.
Rorer, Morris P., 4,699,649, Cl. 71-90.000.
Roy, Suva B., 4,712,310, Cl. 34-5.000.
Rudershausen, Charles G., 4,678,859, Cl. 570-163.000.
Rushmere, John D., 4,668,499, Cl. 423-588.000.
Rutkiewic, Andrew F.; and Strolle, Clifford H., 4,681,815, Cl. 428-458.000.
Ryntz, Rose A.; and Kurple, Kenneth R., 4,673,718, Cl. 525-476.000.
Sakamoto, Haruo; and Kajiura, Motomu, 4,659,158, Cl. 339-19.000.
Sauers, Richard F., 4,699,648, Cl. 71-90.000.
Schober, Manfred, 4,680,251, Cl. 430-306.000.
Schroder, Hans L., 4,640,877, Cl. 430-14.000.
Shah, Ashok H., 4,666,395, Cl. 425-377.000.
Shain, Albert L., 4,708,975, Cl. 523-216.000.
Shapiro, Rafael, 4,639,265, Cl. 71-90.000.
Shapiro, Rafael, 4,655,823, Cl. 71-93.000.
Shapiro, Rafael, 4,684,393, Cl. 71-90.000.
Shapiro, Rafael, 4,689,070, Cl. 71-90.000.
Shapiro, Rafael, 4,693,744, Cl. 71-93.000.
Shenvi, Ashokkumar B., 4,692,528, Cl. 546-115.000.
Shiffler, Donald A., 4,713,289, Cl. 428-361.000.
Shu, Ming-tsai; Thomas, William R., Jr.; and Wehner, Ann M., 4,698,914, Cl. 34-10.000.
Sitzler, Fred C., 4,705,338, Cl. 439-260.000.
Siuta, Vincent P., 4,687,597, Cl. 252-512.000.
Smith, Malcolm S.; and Daigle, Colastie J., 4,666,717, Cl. 426-1.000.
Sondergeld, Manfred A. J.; Dudek, Dietmar; and Hossner, Klaus, 4,683,190, Cl. 430-281.000.
Sowell, Lyles H., 4,707,896, Cl. 28-250.000.
Spinelli, Harry J., 4,659,782, Cl. 525-293.000.
Spinelli, Harry J., 4,659,783, Cl. 525-293.000.
Spinelli, Harry J., 4,695,607, Cl. 525-272.000.
Sroog, Cyrus E., 4,687,611, Cl. 264-236.000.
Stamegna, Andrew P.; and Strolle, Clifford H., 4,659,780, Cl. 525-131.000.
Stamegna, Andrew P.; and Strolle, Clifford H., 4,711,929, Cl. 525-131.000.
Statz, Robert J., 4,690,981, Cl. 525-329.600.
Steinberg, Jerry L., 4,654,095, Cl. 156-89.000.
Stout, David M.; Yamamoto, Diane M.; and Barcelon-Yang, Cynthia, 4,657,919, Cl. 514-335.000.
Stout, David M.; and Matier, William L., 4,666,924, Cl. 514-343.000.
Strauss, Howard W., 4,716,202, Cl. 525-370.000.
Sun, King M., 4,666,925, Cl. 514-345.000.
Sundet, Sherman A., 4,643,829, Cl. 210-500.330.
Swartling, Lennart G., 4,634,025, Cl. 222-161.000.
Sze, Benjamin C., 4,691,003, Cl. 528-308.100.
Tabb, David L., 4,708,988, Cl. 525-194.000.
Tadros, Safwat E., 4,664,738, Cl. 156-275.100.
Taggi, Arthur J., 4,670,370, Cl. 430-137.000.
Takahashi, Fumiyuki, 4,676,580, Cl. 439-885.000.
Tanaka, Toshiyasu; and Ariga, Sadakazu, 4,654,523, Cl. 25 231.0SE.
Tanaka, Toshiyasu; and Ariga, Sadakazu, 4,657,340, Cl. 350-96.20
Tannenbaum, Harvey P., 4,711,802, Cl. 428-207.000.
Taylor, Harvey W., Jr., 4,668,603, Cl. 430-258.000.
Tebbe, Frederick N., 4,696,968, Cl. 524-610.000.
Thompson, Mark E., 4,643,759, Cl. 71-90.000.
Thompson, Mark E., 4,655,817, Cl. 71-90.000.
Thompson, Mark E., 4,657,578, Cl. 71-90.000.
Thompson, Mark E., 4,662,931, Cl. 71-90.000.
Thompson, Mark E., 4,662,933, Cl. 71-92.000.
Thompson, Mark E., 4,707,178, Cl. 71-90.000.
Thompson, Mark E., 4,707,179, Cl. 71-90.000.
Ting, Tse-wu, 4,676,579, Cl. 439-825.000.
Tokarsky, Edward W., 4,698,267, Cl. 428-474.400.
Topolski, Alvin S., 4,677,006, Cl. 428-35.000.
Trout, Torence J., 4,707,429, Cl. 430-115.000.
Tseng, Chi-Ping, 4,652,304, Cl. 71-92.000.
Valentini, Jose E., 4,704,803, Cl. 34-9.000.
Vance, Eric; and Barton, Bruce A., 4,668,234, Cl. 8-115.60
Van Woensel, Johannes Maria B., 4,647,131, Cl. 339-74.00R
Vassallo, Donald A.; and Zunker, David W., 4,640,946, C 524-45.000.
Vassilatos, George, 4,634,739, Cl. 525-240.000.
Vassiliou, Eustathios, 4,636,402, Cl. 427-49.000.
Vassiliou, Eustathios, 4,645,692, Cl. 427-318.000.
Vassiliou, Eustathios, 4,647,481, Cl. 427-385.500.
Vassiliou, Eustathios, 4,684,551, Cl. 427-345.000.
Vassiliou, Eustathios, 4,698,110, Cl. 156-231.000.
Vasta, Joseph A., 4,699,936, Cl. 523-400.000.
Verhoeven, Laurentius M.; and van Nes, Cornelis G. J., 4,696,52 Cl. 439-267.000.
Verhoeven, Laurentius M., 4,697,339, Cl. 29-828.000.
Verhoeven, Laurentius M., 4,701,001, Cl. 439-394.000.
Verhoeven, Laurentius M., 4,715,824, Cl. 439-391.000.
Vincent, Laurent, 4,676,788, Cl. 604-415.000.
Waggoner, Marion G., 4,639,495, Cl. 525-285.000.
Wagman, Mark E., 4,640,949, Cl. 524-227.000.
Wallace, Lawrence R., 4,680,334, Cl. 521-406.000.
Walter, Henry C., 4,678,848, Cl. 526-220.000.
Wang, Ying, 4,692,636, Cl. 307-427.000.
Webster, Owen W., 4,681,918, Cl. 525-282.000.
Webster, Owen W., 4,711,942, Cl. 526-185.000.
Weed, Gregory C., 4,680,249, Cl. 430-281.000.
Weed, Gregory C., 4,710,262, Cl. 156-630.000.
Weed, Gregory C., 4,716,097, Cl. 430-327.000.
Weeks, Gregory P., 4,647,497, Cl. 428-284.000.
Wells, John R.; and Grant, John W., 4,663,058, Cl. 210-801.00
Werjefelt, Bertil, 4,683,880, Cl. 128-201.280.
Wexler, Barry A., 4,671,817, Cl. 71-91.000.
Wexler, Barry A., 4,693,743, Cl. 71-92.000.
Wexler, Barry A., 4,715,885, Cl. 71-91.000.
Wexler, Barry A., 4,715,886, Cl. 71-91.000.
Wheeler, James W., 4,701,398, Cl. 430-510.000.
Wilhite, Douglas L.; and Mickewich, Daniel J., 4,678,744, C 430-569.000.
Wilkerson, Wendell W., 4,652,582, Cl. 514-427.000.
Williams, John F.; and Wagner, Emery L., 4,690,669, C 494-14.000.
Willis, Frank M., 4,636,312, Cl. 210-416.100.
Willis, Frank M., 4,647,756, Cl. 219-243.000.
Winckler, Steven J., 4,689,947, Cl. 57-304.000.
Wischusen, Henry, III; and Fletcher, Richard J., 4,676,430, C 229-140.000.
Wojcik, Michael S., 4,668,607, Cl. 430-281.000.
Wolf, Anthony D., 4,645,530, Cl. 71-91.000.
Wolfe, James R., Jr., 4,710,544, Cl. 525-194.000.
Zafiroglu, Dimitri P., 4,704,321, Cl. 428-230.000.
Zebley, Raymond S.; Nichols, James H., Jr.; and Ciosek, Berna M., Jr., 4,690,302, Cl. 221-11.000.
Zimmerman, Joseph, 4,699,746, Cl. 264-211.150.
Zimmerman, William T., 4,643,761, Cl. 71-92.000.

Dupont, Jean-Marcel: *See*—
Lebas, Jean-Marie; Rat, Pierre; Dupont, Jean-Marcel; and Vinues Germain, 4,710,329, Cl. 264-3.100.

DuPont, Preston S.; Ritter, Robert E.; and Stafford, John P., to Hughe Aircraft Company. Conductive coating. 4,705,646, 11-10-87, C 252-511.000.

Dupont, Regis: *See*—
Wick, Alexander; Frost, Jonathan; Gaudilliere, Bernard; Bern Jean; Dupont, Regis; and Rousseau, Jean, 4,690,931, C 514-317.000.

Dupont, Rene : *See*—
Schurmans, Jacques; Neukermans, Herman; Quibel, Jacques; and Dupont, Rene , 4,670,187, Cl. 252-373.000.

du Port de Poncharra, Jean: *See*—
Bruel, Michel; and du Port de Poncharra, Jean, 4,704,302, C 427-38.000.

Duport, Louis. Double-action belt intended particularly for a spee varying device comprising pulleys of variable useful diamete 4,701,153, 10-20-87, Cl. 474-201.000.

uPoy, Marc, to Commissariat a l'Energie Atomique. Process for the use of a binary register with n bistable cells making it possible to determine the ratio of two frequencies and apparatus for performing the process. 4,688,236, 8-18-87, Cl. 377-48.000.

upoyet, Guy, to Compagnie des Transmissions Mecaniques Sedis. Transmission chain. 4,642,078, 2-10-87, Cl. 474-206.000.

upper, Walter; Emberger, Roland; Hack, Kurt; Lattner, Manfred; Nickolay, Helmut; Riedel, Karl; and Schollhammer, Richard, to Zinser Textilmaschinen GmbH. Spinning machines and the like with signal or indicator devices. 4,635,321, 1-13-87, Cl. 19-0.250.

uppong, Denis E.; McGrew, Bernard L.; and Decker, Ramsay P., to FMC Corporation. Apparatus for detecting power lines. 4,649,375, 3-10-87, Cl. 340-660.000.

uprat, George; Langon, Bernard; and Sulmont, Benoit, to Aluminium Pechiney. Process and apparatus for automatic increased suction extraction on electrolysis tanks for the production of aluminum. 4,668,352, 5-26-87, Cl. 204-67.000.

upre, Jean; and Keenan, Andrea C., to Rohm and Haas Company. Rinse aid formulation. 4,678,596, 7-7-87, Cl. 252-174.240.

upre, Milburn E. Energy conserving refrigeration apparatus and method. 4,679,986, 7-14-87, Cl. 417-53.000.

upree, Hans-Werner. Outwardly pullable drawer or sliding tray for furniture. 4,685,751, 8-11-87, Cl. 312-263.000.

uprez, Wayne R. Pressure compensated temperature switch unit for protection of an internal combustion engine. 4,672,920, 6-16-87, Cl. 123-41.150.

uPriest, Mark T.; and York, Billie M., Jr., to Alcon Laboratories, Inc. Method for treating hypertension with 2,3-diamino-1,4-butanedithiol; 4,5-diamino-1,2-dithiane; and N-acyl and N-alkyl derivatives thereof. 4,659,733, 4-21-87, Cl. 514-436.000.

upuis, Aurelian J., Jr. Column construction. 4,641,467, 2-10-87, Cl. 52-297.000.

upuis, Bruno, to Construction Acton Ltee. Loosening of compacted material in a silo. 4,657,402, 4-14-87, Cl. 366-349.000.

upuis, Didier: *See—*
Rouger, Andre; Dupuis, Didier; Philippe, Michel; Sebag, Henri; and Leger, Didier S., 4,668,664, Cl. 514-29.000.

upuy Engineering (SA): *See—*
Dupuy, Francois, 4,664,648, Cl. 493-84.000.

upuy Engineering, S.A.: *See—*
Dupuy, Francois, 4,713,046, Cl. 493-6.000.

upuy, Francois, to Dupuy Engineering (SA). Method and apparatus for making display boxes. 4,664,648, 5-12-87, Cl. 493-84.000.

upuy, Francois, to Dupuy Engineering, S.A. Circular machine for automatic manufacturing of display boxes. 4,713,046, 12-15-87, Cl. 493-6.000.

upuy, Rene: *See—*
Le Cheviller, Jean-Pierre; Duquesne, Jean; and Dupuy, Rene, 4,669,109, Cl. 379-143.000.

upuy, Timothy C. Attachment for a firearm. 4,713,905, 12-22-87, Cl. 42-85.000.

uquesne, Jean: *See—*
Le Cheviller, Jean-Pierre; Duquesne, Jean; and Dupuy, Rene, 4,669,109, Cl. 379-143.000.

uquette, Lawrence G.; and Garrou, Philip E., to Dow Chemical Company, The. Polyethylene polypiperazine compositions. 4,684,729, 8-4-87, Cl. 544-357.000.

uquette, Lawrence G.: *See—*
Harley, A. Dale; Duquette, Lawrence G.; Khoury, Issam A.; and Kohatsu, Iwao, 4,710,227, Cl. 106-193.00R.

ra Corporation: *See—*
Bauer, Barney J.; Buehler, William E.; and Wingate, Gregory A., 4,660,325, Cl. 49-352.000.

rabla Manufacturing Co.: *See—*
Yaindl, Charles, 4,693,270, Cl. 137-514.300.

racell Inc.: *See—*
Calcerano, Victor, 4,667,827, Cl. 206-461.000.
Drane, John H., 4,711,107, Cl. 70-233.000.
Duncan, Wooten E.; and Townsend, Dwight, 4,669,183, Cl. 29-623.100.
Graham, Teresita O., 4,681,698, Cl. 252-182.100.
Kelm, Roger W., 4,640,874, Cl. 429-27.000.
Klein, Gerhart; Gurrie, Francis; and Barella, Joseph, 4,663,248, Cl. 429-169.000.
McVeigh, James B., Jr.; Reise, Terrence F.; and Taylor, Alwyn H., 4,707,421, Cl. 429-94.000.
Noyes, Androus D.; and Ricci, Joseph T., 4,655,352, Cl. 211-175.000.
Whitney, Thomas A.; and Foster, Donald L., 4,670,363, Cl. 429-196.000.
Wiacek, Marian; and Book, Ronald J., 4,670,362, Cl. 429-174.000.

aco Products, Inc.: *See—*
Glass, Henry P., 4,635,818, Cl. 222-41.000.

affourd, Alain; and Duraffourd, Jean-Max. Composition for regenerating the collagen of connective skin tissue and a process for its preparation. 4,668,516, 5-26-87, Cl. 424-196.100.

affourd, Jean-Max: *See—*
Duraffourd, Alain; and Duraffourd, Jean-Max, 4,668,516, Cl. 424-196.100.

akon Industries, Inc.: *See—*
Gower, Jerald, 4,659,133, Cl. 296-39.00R.
McDonald, Dean, 4,707,016, Cl. 296-39.00R.

ame, Claude: *See—*
Badouard, Michel; Durame, Claude; and Pade, Bernard, 4,673,085, Cl. 206-459.000.

Duramet Systems, Inc.: *See—*
Pendergast, Hugh L., 4,633,877, Cl. 128-581.000.

Duran, John A., to Avibank Mfg., Inc. Self-retaining positive locking bolt. 4,655,657, 4-7-87, Cl. 411-348.000.

Duran, Michael J., Jr., to RCA Corporation. Motion tracking device. 4,662,756, 5-5-87, Cl. 356-429.000.

Duran, Michael J., Jr., to RCA Corporation. Motion tracking system and method. 4,662,757, 5-5-87, Cl. 356-429.000.

Duran, Reginald F.; and Brass, Jack L. Method of construction of a heat treatment furnace. 4,667,396, 5-26-87, Cl. 29-611.000.

Duran Romero, Gustavo; and Munoz Escribano, Jose-Antonio. Coplanar closure sliding window. 4,662,108, 5-5-87, Cl. 49-130.000.

Durand, Alain: *See—*
Triboulet, Robert; Didier, Gerard; Durand, Alain; and Royer, Michel, 4,662,980, Cl. 156-604.000.

Durand, Bernard. Speed measuring device for a helicopter. 4,648,269, 3-10-87, Cl. 73-178.00H.

Durand, Charles A.; and Gadsby, Larry R., to Electronic Processors, Inc. Cartridge loading and ejecting mechanism for use in a tape transport system. 4,635,147, 1-6-87, Cl. 360-93.000.

Durand, Daniel: *See—*
Courty, Philippe; Durand, Daniel; Sugier, Andre; and Freund, Edouard, 4,659,742, Cl. 518-713.000.
Courty, Philippe; Durand, Daniel; Forestiere, Alain; and Grandvallet, Pierre, 4,675,343, Cl. 518-713.000.
Desvignes, Bernard; Durand, Daniel; and Milleliri, Bernard, 4,663,238, Cl. 428-516.000.

Durand, David, to Industrial Science Associates. Printed circuit. 4,656,314, 4-7-87, Cl. 174-68.500.

Durand, David, to K-T, Inc. Method of applying a dye image to a plastic member. 4,668,239, 5-26-87, Cl. 8-471.000.

Durand, David. Apparatus for applying a dye image to a member. 4,670,084, 6-2-87, Cl. 156-540.000.

Durand, Francois. Planetary gear box with two double eccentrics. 4,656,891, 4-14-87, Cl. 74-804.000.

Durand, Giuliana G., heiress: *See—*
Durand, Joseph L., deceased, 4,699,576, Cl. 418-58.000.

Durand, Jean-Henri: *See—*
Schapira, Joseph; Ken, Victor; Hoessler, Christian; Cot, Louis; Durand, Jean-Henri; and Pelletier, Patrice, 4,668,307, Cl. 148-6.15Z.

Durand, Jean-Jacques. Unitary package for a glass or similar article. 4,662,512, 5-5-87, Cl. 206-45.190.

Durand, Jean-Jacques. Display package for a glass or similar article. 4,667,825, 5-26-87, Cl. 206-426.000.

Durand, Jean-Pierre; Nicolas, Denise; Kohler, Norbert; Dawans, Francois; and Candau, Francoise, to Institut Francais du Petrole. Process for manufacturing inverse microlatices of watersoluble copolymers, the resultant inverse microlatices and their use for improving the production of hydrocarbons. 4,681,912, 7-21-87, Cl. 524-827.000.

Durand, John E.: *See—*
Durand, Joseph L., deceased, 4,699,576, Cl. 418-58.000.

Durand, Joseph L., deceased (by Durand, Giuliana G., heiress), to Durand, John E.; Durand, Loreta; and Sassone, Robert L. Positive displacement device. 4,699,576, 10-13-87, Cl. 418-58.000.

Durand, Loreta: *See—*
Durand, Joseph L., deceased, 4,699,576, Cl. 418-58.000.

Durand, Philippe, to Verrerie Cristallerie d'Arques J. G. Durand & Cie. Display-packing unit for glasses and similar articles. 4,640,417, 2-3-87, Cl. 206-426.000.

Duranleau, Roger G.; Nieh, Edward C. Y.; and Knifton, John F., to Texaco Inc. Process for production of ethylene glycol and dimethyl carbonate. 4,691,041, 9-1-87, Cl. 558-277.000.

Durant, Graham J.; Ganellin, Charon R.; and Vickers, Margaret R., to Smith Kline & French Laboratories Limited. Pharmaceutical compositions. 4,649,138, 3-10-87, Cl. 514-232.000.

Durant, Graham J.: *See—*
Brown, Thomas H.; and Durant, Graham J., 4,694,008, Cl. 514-269.000.

Durant, Jacques; Simon, Georges; and Charton, Alain, to Etat Francais. Automatic fire arm with external motor. 4,708,049, 11-24-87, Cl. 89-11.000.

Durant, Jacques A.: *See—*
Marcon, Joel M.; Durant, Jacques A.; and Simon, Georges H., 4,704,945, Cl. 89-185.000.

Durant, Will G., to Westmont, Inc. Valve bag placer. 4,664,162, 5-12-87, Cl. 141-154.000.

Duratech, Inc.: *See—*
Carpenter, Charles T.; and Bayly, Robert M., 4,669,516, Cl. 144-241.000.

Durbin, Enoch J. Fluid flow rate and direction measuring apparatus. 4,680,962, 7-21-87, Cl. 73-189.000.

Durbin, James L.; and Clemens, Robert M., to A.K.G.S. Partnership, A Partnership of Las Vegas. Aircraft trash compactor. 4,700,623, 10-20-87, Cl. 100-52.000.

Durbin, James L.: *See—*
Andrews, Kenneth E.; Weingardt, Gary; and Durbin, James L., 4,711,390, Cl. 229-41.00R.

Durbin, James W., to Canevari Timber Co., Inc. Method and system for determination of data record order based on keyfield values. 4,[illegible]9,139, 7-7-87, Cl. 364-200.000.

Durbin, John A.: *See—*
Harrigan, Michael E.; Durbin, John A.; and Schroll, Ross E., 4,701,027, Cl. 350-334.000.
Loce, Robert P.; Rees, James D.; and Durbin, John A., 4,692,015, Cl. 355-1.000.

Durbin, John R. Fiber optic swivel coupler and method of use therefor. 4,658,130, 4-14-87, Cl. 250-227.000.

Durbin, Roger: *See—*

Althouse, Rickie M.; Beamenderfer, Robert E.; Durbin, Roger; Hollyday, Robert D.; and Kling, John P., 4,641,907, Cl. 339-147.00R.

Durbin, Roger W.; Kling, John P.; and Schroeder, James L., III, to AMP Incorporated. Stamped and formed filter pin terminal having an aperture for preventing solder wicking. 4,652,842, 3-24-87, Cl. 333-182.000.

Durchenwald, Larry D., to Deere & Company. Workpiece rollover apparatus. 4,696,387, 9-29-87, Cl. 198-394.000.

Durckheimer, Walter: *See—*

Kirrstetter, Reiner; Durckheimer, Walter; Lattrell, Rudolf; and Schwab, Wilfried, 4,692,516, Cl. 540-222.000.

Lattrell, Rudolf; Kirrstetter, Reiner; Schwab, Wilfried; Durckheimer, Walter; and Seibert, Gerhard, 4,647,556, Cl. 514-206.000.

Limbert, Michael; Durckheimer, Walter; Schorlemmer, Hans-Ulrich; and Dickneite, Gerhard, 4,701,452, Cl. 514-206.000.

Schwab, Wilfried; Durckheimer, Walter; Kirrstetter, Reiner; and Lattrell, Rudolf, 4,667,028, Cl. 540-222.000.

Durden, John A.: *See—*

Rao, Chennupati K.; Arora, Sudershan K.; Grover, Raman; Durden, John A.; and D'Silva, Themistocles D. J., 4,637,901, Cl. 260-544.00C.

Dure, Antonino, to Danieli & C. Officine Meccaniche SpA. Plant to form and cool coils. 4,641,512, 2-10-87, Cl. 72-201.000.

Dureanleau, Roger G.; and Knifton, John F., to Texaco Inc. Process for separation of product resulting from hydroformylation. 4,678,857, 7-7-87, Cl. 568-454.000.

Dureigne, Bernard; Guerillot, Stephane; and Regnault, Alain, to Agence France Presse. Method and device for recreation of an analog luminance signal from a digital signal. 4,670,792, 6-2-87, Cl. 358-280.000.

Durej, Ronald G.: *See—*

Albano, Rocco V.; and Durej, Ronald G., 4,646,324, Cl. 375-38.000.

Duren, Monica O. Condensed vapor vent. 4,671,076, 6-9-87, Cl. 62-289.000.

Duret, Christian; and Pirio, Francis. End equipments for wideband transmission line. 4,707,672, 11-17-87, Cl. 333-4.000.

Duret, Francois; and Termoz, Christian. Method of and apparatus for making a prosthesis, especially a dental prosthesis. 4,663,720, 5-5-87, Cl. 364-474.000.

Durette, Philippe L.; Witzel, Bruce E.; Rupprecht, Kathleen M.; Tischler, Allan N.; and Gallagher, Timothy F., to Merck & Co., Inc. Anti-inflammatory and analgesic 3-hydroxybenzo[b]thiophene derivatives, compositions, and method of use therefor. 4,663,344, 5-5-87, Cl. 514-443.000.

Durette, Philippe L.: *See—*

Hagmann, William K.; Durette, Philippe L.; and Ponpipom, Mitree M., 4,652,553, Cl. 514-26.000.

Dureux, Pierre J. C., to U.S. Philips Corporation. Television-type interlaced display device and digital oscilloscope comprising such a device. 4,642,623, 2-10-87, Cl. 340-728.000.

Durfee, David W.: *See—*

Bouyoucos, John V.; and Durfee, David W., 4,663,206, Cl. 428-57.000.

Durfee, John R.: *See—*

Greider, C. Austin; Stephenson, David G.; Lee, Terry R.; and Durfee, John R., 4,648,238, Cl. 56-202.000.

Durfee, Norman E., Jr.: *See—*

Rock, John A.; Durfee, Norman E., Jr.; and Johnson, Robert O., 4,673,708, Cl. 525-66.000.

Durfor, Charles N.: *See—*

Bowers, Mark L.; Druy, Mark A.; Durfor, Charles N.; Smith, H. Gilbert; Tripathy, Sukant K.; and Yenser, Barbara A., 4,704,193, Cl. 204-1.00T.

Durham, Clyde S.: *See—*

Mair, Steven M.; and Durham, Clyde S., 4,686,862, Cl. 74-44.000.

Durham, Dana, to American Hoechst Corporation. Process of using photoresist treating composition containing a mixture of a hexa-alkyl disilazane, propylene glycol alkyl ether and propylene glycol alkyl ether acetate. 4,692,398, 9-8-87, Cl. 430-329.000.

Durham, LaMoyne W.: *See—*

Backe, Bengt S.; and Durham, LaMoyne W., 4,658,859, Cl. 137-625.230.

Backe, Bengt S.; and Durham, LaMoyne W., 4,706,456, Cl. 60-368.000.

Durham, Robert L., to Agritec, Inc. Filtration with biogenetic silica. 4,645,605, 2-24-87, Cl. 210-679.000.

Durham, Robert L., to Agritec, Inc. Plant growth media containing rice hull ash. 4,707,176, 11-17-87, Cl. 71-23.000.

Durham, Roger O. Two-piece crankshaft for bicycles. 4,704,919, 11-10-87, Cl. 74-594.100.

Durham, Stephen J., to Cermetek Microelectronics, Inc. Universal modem receiver transmitter. 4,682,352, 7-21-87, Cl. 379-98.000.

Durham, Timothy N. Apparatus for housing and deploying a radar detector in an automotive vehicle. 4,684,164, 8-4-87, Cl. 296-37.700.

Durholz, Friedrich: *See—*

Skipka, Guido; and Durholz, Friedrich, 4,680,146, Cl. 260-505.00R.

Duri, Antonino, to Danieli & C. Officine Meccaniche SpA. Convertible head to form coils. 4,644,773, 2-24-87, Cl. 72-135.000.

Duri, Antonino, to Danieli & C. Officine Meccaniche SpA. Device to discharge rolled products onto a cooling plate, closure of the device taking place by positive actuation. 4,711,340, 12-8-87, Cl. 198-451.000.

Durif Varambon, Bruno: *See—*

Baviere, Marc; and Durif Varambon, Bruno, 4,686,053, Cl. 252-8.554.

Durinck, Rene: *See—*

Chielens, Alain; Durinck, Rene; and Werquin, Pierre, 4,635,704, Cl. 164-452.000.

Duringer, Rudi H., to S. Franzen Sohne (GmbH & Co.). Combination lock. 4,651,545, 3-24-87, Cl. 70-312.000.

Duriron Company, Inc., The: *See—*

Medvid, Richard J., 4,711,264, Cl. 137-241.000.

Wissman, Jack L., 4,701,291, Cl. 264-248.000.

Durivage, Leon W.; and Farrington, Ronald L., to Square D Company. Restraint signal interface circuit. 4,706,155, 11-10-87, Cl. 361-64.000.

Durkan, Martin J., Jr. Super-elliptical adaptor ring for refuse containers and the like. 4,712,701, 12-15-87, Cl. 220-71.000.

Durkee, Darryl L.; and Manning, Frank E. Tongue force measuring device. 4,697,601, 10-6-87, Cl. 128-777.000.

Durkee Famous Foods, Inc.: *See—*

Rakosky, Gayle E., 4,704,294, Cl. 426-578.000.

Durkee Industrial Foods Corp.: *See—*

Kozlowski, Thomas A.; Lindstrom, Robert O.; Loughrin, Thomas D.; and Baka, Kathleen J., 4,714,181, Cl. 222-480.000.

Seighman, Jon T., 4,713,251, Cl. 426-96.000.

Steinke, James A., 4,698,264, Cl. 426-402.200.

Durkee, Susan C., to Hercules Incorporated. Method of improving the color of tall oil rosin esters. 4,657,703, 4-14-87, Cl. 260-104.000.

Durkee, Susan C., to Hercules Incorporated. Method of improving the color of tall oil rosin esters. 4,657,706, 4-14-87, Cl. 260-104.000.

Durkin, Robert O. Trailer chassis assembly for holding stacked chassis. 4,650,381, 3-17-87, Cl. 410-43.000.

Durkopp System Technik GmbH: *See—*

Kupper, Gerd; Zabinski, Siegfried; and Vossen, Burghardt, 4,659,097, Cl. 280-281.00R.

Durkoppwerke GmbH: *See—*

Biermann, Kurt; and Steppat, Gerhard, 4,646,668, Cl. 112-320.000.

Druffel, Erich, 4,679,513, Cl. 112-229.000.

Fenzl, Horst, 4,644,882, Cl. 112-121.260.

Goldbeck, Heinz; and Moller, Klaus, 4,658,740, Cl. 112-114.000.

Goldbeck, Heinz; Plassmeier, Horst; and Struck, Herbert, 4,665,843, Cl. 112-68.000.

Riss, Gerhard; and Fuerhoff, Richard, 4,714,034, Cl. 112-113.000.

Durl, Bernd; Bos, Johannes; Ong, Sienling; Raffel, Peter; and Brozat, Kurt, to Hoechst Aktiengesellschaft. Process for producing white and colored resists on polyamide fiber materials using reactive dye in free vinyl sulphone form. 4,680,033, 7-14-87, Cl. 8-449.000.

Durl, Bernd: *See—*

Richter, Wolfgang; and Durl, Bernd, 4,640,691, Cl. 8-543.000.

Durner, Yvan, to Mali S.A.R.L. Underwater trenching and pipe-laying devices. 4,643,613, 2-17-87, Cl. 405-161.000.

Duro-Last Roofing Inc.: *See—*

Greko, John C., 4,652,321, Cl. 156-165.000.

Duro Med Industries, Inc.: *See—*

Whitehead, Edward J., 4,711,445, Cl. 272-67.000.

Duro-Test Corporation: *See—*

Goldstein, Irving S., 4,714,857, Cl. 313-112.000.

Shurgan, Joel, 4,649,319, Cl. 315-99.000.

Walsh, Peter J., 4,645,290, Cl. 350-1.700.

Walsh, Peter J., 4,703,220, Cl. 313-112.000.

Walsh, Peter J., 4,707,632, Cl. 313-112.000.

Durodyne, Inc.: *See—*

Dougherty, Robert C., 4,679,600, Cl. 138-128.000.

Durol Flying Lindauer Ikh Montage GmbH: *See—*

Bingener, Hans, 4,638,545, Cl. 29-460.000.

Durolla Products (N.Z.) Limited: *See—*

Duff, Kenneth S., 4,697,754, Cl. 242-55.300.

Duropal-Werk Eberh. Wrede GmbH & Co. Kg: *See—*

Vinther, Knud, 4,663,912, Cl. 52-813.000.

Durot, Jean; and Prevot, Claude, to Societe Degremont. Fluid bed reactor for the biological treatment of water. 4,707,252, 11-17-87, Cl. 210-151.000.

Durotech Corporation: *See—*

Jones, Robert H., III, 4,667,478, Cl. 62-64.000.

Durr, Charles A.: *See—*

Sharma, Shanmuk; Hill, Donnie K.; and Durr, Charles A., 4,702,819, Cl. 208-354.000.

Sharma, Shanmuk; Hill, Donnie K.; and Durr, Charles A., 4,710,214, Cl. 62-28.000.

Sharma, Shanmuk; Hill, Donnie K.; and Durr, Charles A., 4,711,651, Cl. 62-34.000.

Durr Dental GmbH & Co. KG: *See—*

Rosander, Jan, 4,663,035, Cl. 210-167.000.

Durr, Dieter, to Ciba-Geigy Corporation. Novel phenoxyphenylamine acid derivatives, the production thereof, compositions containing them and use thereof. 4,649,212, 3-10-87, Cl. 560-21.000.

Durr, Dieter, to Ciba-Geigy Corporation. Herbicidal alkoxyamino- and polyalkoxyaminodiphenyl ethers. 4,694,105, 9-15-87, Cl. 564-430.000.

Durr, Dieter, to Linde Aktiengesellschaft. Method of deburring or deflashing articles. 4,696,421, 9-29-87, Cl. 225-1.000.

Durr, Dieter: *See—*

Schurter, Rolf; Thummel, Rudolph C.; Topfl, Werner; Meyer, Willy; and Durr, Dieter, 4,664,695, Cl. 71-92.000.

Durr, Frederick E.: *See—*

Murdock, Keith C.; Damiani, Martin R.; and Durr, Frederick E., 4,696,935, Cl. 514-297.000.

Durr GmbH: *See—*

Klobenzer, Heinz; and Hosel, Peter, 4,686,049, Cl. 210-774.000.

Durr, Manfred: *See—*
- Schulz, Volker; Leyck, Sigurd; Durr, Manfred; Ghyczy, Miklos; Wendel, Armin; and Hager, Jorg, 4,684,632, Cl. 514-78.000.
- Wendel, Armin; Leyck, Sigurd; Wetzig, Helmut; Hager, Jorg; Durr, Manfred; and Ghyczy, Miklos, 4,687,766, Cl. 514-78.000.

Durr, Manfred J., to Krupp Polysius AG. Cyclone construction. 4,662,909, 5-5-87, Cl. 55-267.000.

Durr, Walter. Dental handpiece assembly. 4,711,630, 12-8-87, Cl. 433-82.000.

Durrant, James A.; and Lowry, Michael R., to Lever Brothers Company. Skin treatment composition. 4,699,924, 10-13-87, Cl. 514-558.000.

Durrant, James A.: *See—*
- Bews, Brian; Critchley, Peter; Durrant, James A.; Stebles, Malcolm R. D.; and Tipping, Leigh R. H., 4,659,560, Cl. 424-47.000.
- Bews, Brian; Critchley, Peter; Durrant, James A.; Stebles, Malcolm R. D.; and Tipping, Leigh R. H., 4,708,863, Cl. 424-47.000.

Durrant, John T.; and Deily, Greg K., to Garden Way Incorporated. Cultivator drag bar and mounting therefor. 4,699,219, 10-13-87, Cl. 172-42.000.

Durrant, Oliver W.; Kakarala, Chandrasekhara R.; and Mandel, Sheldon W., to Babcock & Wilcox Company, The. Start-up control system and vessel for LMFBR. 4,656,335, 4-7-87, Cl. 219-271.000.

Durrant, Oliver W.; Kakarala, Chandrasekhara R.; and Mandel, Sheldon W., to Babcock & Wilcox Company, The. Start-up control system and vessel for LMFBR. 4,674,285, 6-23-87, Cl. 60-676.000.

Durrant, Richard C. E.: *See—*
- Adams, Graham L.; and Durrant, Richard C. E., 4,696,540, Cl. 350-96.210.

Durre, Reynold F.: *See—*
- LeBlanc, James A.; and Durre, Reynold F., 4,704,144, Cl. 55-300.000.

Durrell, Robert R.; and Willis, Kenneth E., to Unidynamics Phoenix, Inc. Safety and arming mechanism. 4,643,096, 2-17-87, Cl. 102-250.000.

Durrenberger, Willy. Process and equipment for heating a liquid without pollution of the environment. 4,685,444, 8-11-87, Cl. 126-360.00A.

Dursch, Harry W., to Boeing Company, The. $CdS/CuInSe_2$ solar cells with titanium foil substrate. 4,703,131, 10-27-87, Cl. 136-258.000.

Dursch, Walter; Herwig, Walter; and Engelhardt, Friedrich, to Hoechst Aktiengesellschaft. Process for the preparation of polymers of vinylphosphonic acid in protic solvents. 4,696,987, 9-29-87, Cl. 526-216.000.

Dursch, Walter: *See—*
- Schlingmann, Merten; Hoppe, Hans-Ullrich; and Dursch, Walter, 4,709,086, Cl. 560-171.000.

Durschlag, Mark S.: *See—*
- Lee, Kyu-Woong; Durschlag, Mark S.; and Day, John, 4,670,297, Cl. 427-91.000.

Durselen, Heinz: *See—*
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Durst, Felix, to Allenspach, Norbert. Heat exchanger unit with support ring and radial brackets. 4,691,764, 9-8-87, Cl. 165-68.000.

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Durst, Paul T.: *See—*
- Theiss, John J.; and Durst, Paul T., 4,691,097, Cl. 219-513.000.

urst Phototechnik GmbH: *See—*
- Delueg, Werner; and Gandini, Mario, 4,682,883, Cl. 355-38.000.
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- Yagusic, George J.; and Durstin, Michael F., 4,672,281, Cl. 318-592.000.

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rston, Thomas W., to Harris Corporation. Telephone test set having an auxiliary amplifier and speaker for permitting listening to line signals. 4,691,336, 9-1-87, Cl. 379-21.000.

rston, Thomas W.; Fleitz, George D.; Coffelt, Steven R.; Eckman, James D.; Wong, Wayne K.; and Chavannes, Theodore E., to Harris Corporation. Test set communication/interface system. 4,707,848, 11-17-87, Cl. 379-1.000.

rston, Thomas W.: *See—*
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rth, Wilfried, to Buderus Aktiengesellschaft. Method of selectively perating a cooking apparatus with circulating heated air or water apor. 4,701,334, 10-20-87, Cl. 426-510.000.

rtschi, William G.; Dschida, Linda M.; and Lang, David J., to undstrand Corporation. Fault detector for a triplexed mechanical or ydromechanical system. 4,688,469, 8-25-87, Cl. 91-388.000.

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Dusar, Heinz. Moveable lower guide for sliding doors. 4,672,694, 6-16-87, Cl. 4-607.000.

Dusch, Albert, to Pfaff Industriemaschinen GmbH. Lockstitch sewing machine with a rotary hook. 4,669,401, 6-2-87, Cl. 112-231.000.

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Dusel, Robert O.; and Keene, Harold J., to Artos Engineering Company. Wire processing apparatus having control means. 4,649,621, 3-17-87, Cl. 29-564.400.

Dusel, Robert O.; Keene, Harold J.; Berres, James; and Blaha, Gerald, to Artos Engineering Company. Lead making machine. 4,713,880, 12-22-87, Cl. 29-564.400.

Dusel, Robert O.: *See—*
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Dussan V. Benlcio L., to Proctor & Schwartz, Inc. Sanitary conveyor assembly. 4,674,627, 6-23-87, Cl. 198-821.000.

Dussaud, Jacques: *See—*
- Lucas, Gerard; Dussaud, Jacques; and Leroy, Andre, 4,690,719, Cl. 156-201.000.

Dussault, Paul G.: *See—*
- Slavik, William H.; Carlson, William P.; Cepynsky, George L.; Dussault, Paul G.; Margison, Steven E.; and Wolf, James A., Jr., 4,682,958, Cl. 434-335.000.

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- Leben, Yannick; and D'Ussel, Louis, 4,710,438, Cl. 429-119.000.

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Dutcher, Alan P., to Oki America, Inc. Read back circuit for recovering data from magnetic storage medium. 4,686,586, 8-11-87, Cl. 360-46.000.

Dutcher, Alan P. Read post compensator circuit for magnetic record-/reproduce device. 4,716,475, 12-29-87, Cl. 360-45.000.

Dutertre-Laduree, Daniel: *See—*
- Roos, Andre; Dutertre-Laduree, Daniel; Goldman, Max; and Goldman, Alice, 4,698,586, Cl. 324-71.100.

Dutescu, Cornel J. Gaseous fuel reactor. 4,708,637, 11-24-87, Cl. 431-116.000.

Duteurtre, Bruno H. J.; Coulon, Philippe A.; and Goutard, Rene M., to Champagne Moet & Chandon. Method and apparatus for dispensing particles into a container. 4,655,265, 4-7-87, Cl. 141-9.000.

Duthaler, Rudolf: *See—*
- Pfeifer, Josef; and Duthaler, Rudolf, 4,698,295, Cl. 430-325.000.
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Duthweiler, Frederick C., to Union Oil Company of California. Method for preventing thaw settlement along offshore artic pipelines. 4,676,695, 6-30-87, Cl. 405-157.000.

Dutil, Robert; and Gilbert, Raymond. Automatic transmission for multi-speed bicycle. 4,701,152, 10-20-87, Cl. 474-70.000.

Dutina, Hans, to Hans Dutina, Research & Development AB. Arrangement in circular saws, and saw-blades therefor. 4,662,259, 5-5-87, Cl. 83-821.000.

Dutka, Ferenc: *See—*
- Komives, Tamas; Dutka, Ferenc; Barta, Istvan; Jablonkai, Istvan; Hulesch, Agnes; Bihari, Ferenc; Eifert, Gyula; Bohus, Peter;

Nagy, Mihaly; Bacskai, Gyorgy; and Kuronya, Istvan, 4,708,733, Cl. 71-94.000.

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Dutkewych, Oleh B., to Shipley Company Inc. Ductile electroless copper. 4,695,505, 9-22-87, Cl. 428-209.000.

Dutkewych, Oleh B.: *See—*
  Gulla, Michael; Dutkewych, Oleh B.; and Bladon, John J., 4,634,468, Cl. 106-1.110.
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Dutt, Herbert V., to Sun Coast Plastics, Inc. Plastic closure for beverage container. 4,640,435, 2-3-87, Cl. 220-307.000.

Dutt, Herbert V.; Foldesi, Istvan; and Santostasi, Paul A., to Sun Coast Plastics, Inc.; and Montreal Milling Cutter and Company, Inc. Process for forming a two part closure. 4,683,016, 7-28-87, Cl. 156-69.000.

Dutt, Herbert V.; and Santostasi, Paul A., to Sun Coast Plastics, Inc. Easy open container end closure. 4,687,116, 8-18-87, Cl. 220-270.000.

Dutt, Herbert V.; and Weir, Dixie L., to Sun Coast Plastics, Inc. Sleeved container and closure assembly. 4,700,867, 10-20-87, Cl. 220-410.000.

Dutt, William H., to Albany International Corp. Wet press papermakers felt. 4,657,806, 4-14-87, Cl. 428-226.000.

Dutt, William H., to Albany International Corp. Forming fabric. 4,676,278, 6-30-87, Cl. 139-383.00A.

Dutta, Anand S.; Stein, Ross L.; Trainor, Diane A.; and Wildonger, Richard A., to ICI Americas Inc.; and Imperial Chemical Industries PLC. Proline derivatives. 4,691,007, 9-1-87, Cl. 530-331.000.

Dutton, Edmund L.; Selfridge, Glenn D.; and Tipton, Russell C., to Mallinckrodt, Inc. Controlled atmosphere enclosure. 4,701,415, 10-20-87, Cl. 435-289.000.

Dutton, G. Wayne. Process for sensing defects on a smooth cylindrical interior surface in tubing. 4,707,132, 11-17-87, Cl. 356-241.000.

Dutton, Hugh J.; and Francis, Martin. Architectural plate glass support system. 4,689,928, 9-1-87, Cl. 52-235.000.

Dutton, Mike: *See—*
  Lane, Darryl; Barr, B. G.; Dutton, Mike; Frain, Mike; Frechette, Simon; Hummel, Keith; Majerle, John; Majerle, Joseph; Rogers, Steve; Unger, Mark; and Umholtz, Robert, 4,664,366, Cl. 269-303.000.

Dutton, Patrick F., to International Business Machines. Apparatus for automatically correcting erroneous data and for storing the corrected data in a common pool alternate memory array. 4,654,847, 3-31-87, Cl. 371-10.000.

Dutton, Patrick F.; and Jackson, Earl W., Jr., to International Business Machines Corporation. Masking commands for a second processor when a first processor requires a flushing operation in a multiprocessor system. 4,713,751, 12-15-87, Cl. 364-200.000.

Dutton, Roger W.: *See—*
  Westhoff, William L., and Dutton, Roger W., 4,652,252, Cl. 474-204.000.

Duty Cycle, Inc.: *See—*
  Welch, Dean, 4,664,311, Cl. 236-10.000.

Duurland, Jozef M.; Bos, Sinnighe J.; and Kreeft, Hendrik K., to Polygram International Holding B.V. Magnetic-tape cassette with stretched liner arrangement. 4,681,280, 7-21-87, Cl. 242-199.000.

Duval, Casimir J.: *See—*
  Beaumont, Gregory J.; Duval, Casimir J.; Kula, Frank N.; and Tamkin, Michael S., 4,646,159, Cl. 358-254.000.

Duval, Claude, to La Detection Electronique Francaise-Protecbat. Method for transmitting messages between a central station and several distant stations. 4,663,499, 5-5-87, Cl. 178-2.00R.

Duval Corporation: *See—*
  Ochs, Leonard R., 4,634,467, Cl. 75-117.000.

Duval, David R. Single line pair power control system with multi-station capability. 4,709,233, 11-24-87, Cl. 340-825.180.

Duval, Leonard A. Method and apparatus for the drying of solid materials by displacement. 4,696,114, 9-29-87, Cl. 34-9.000.

Duval, Paul A., to Guilford Mills, Inc. Differential density fabric. 4,698,276, 10-6-87, Cl. 428-116.000.

DuVall, Dale R.; Bateson, John E.; Hewitt, Lew V.; and Hewitt, David P., to Overhead Door Corporation of Texas. Acoustic obstruction detector and method. 4,706,227, 11-10-87, Cl. 367-96.000.

Du Vall, Frederick W.: *See—*
  Mitchell, Ronald B.; and Du Vall, Frederick W., 4,666,084, Cl. 239-265.430.

Duvall, Robert L., III; Halmos, Maurice J.; and Henderson, David M., to Hughes Aircraft Company. Linear FM chirp laser. 4,662,741, 5-5-87, Cl. 356-5.000.

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  Dewhirst, Donald R.; and Duvall, Robert L., III, 4,660,204, Cl. 372-16.000.

DuVall, Wilbur E. Muscle contraction stimulation. 4,688,575, 8-25-87, Cl. 128-422.000.

Duvall, William E.: *See—*
  Craig, Randy W.; and Duvall, William E., 4,700,260, Cl. 361-150.000.

Duvdevani, Ilan; Wagensommer, Joseph; and Agarwal, Pawan K., to Exxon Research & Engineering Co. Novel interpolymer complexes of sulfonated octene-1 copolymer. 4,634,542, 1-6-87, Cl. 252-47.500.

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Duvdevani, Ilan: *See—*
  Kitano, Kissho; Duvdevani, Ilan; and Schulz, Donald N., 4,715,865, Cl. 44-7.300.
  Lundberg, Robert D.; Duvdevani, Ilan; and Peiffer, Dennis G., 4,647,603, Cl. 523-339.000.
  Lundberg, Robert D.; Phillips, Robert R.; Peiffer, Dennis G.; and Duvdevani, Ilan, 4,665,115, Cl. 524-251.000.
  Mintz, Donald J.; Peiffer, Dennis G.; Thaler, Warren A.; and Duvdevani, Ilan, 4,701,263, Cl. 210-728.000.
  Schulz, Donald N.; Duvdevani, Ilan; Bock, Jan; and Berluche, Enock, 4,650,848, Cl. 526-287.000.

Duve, John P., to Eaton Corporation. Program timer with variable time delay. 4,649,239, 3-10-87, Cl. 200-38.00R.

Duve, John P., to Eaton Corporation. Electrical coil assembly and terminal therefor. 4,672,348, 6-9-87, Cl. 336-192.000.

Duvenkamp, Manfred, to General Motors Corporation. Foldable headrest for vehicle rear seat. 4,711,494, 12-8-87, Cl. 297-403.000.

Duvent, Jean-Louis, to U.S. Philips Corporation. Method of automatic focussing by digital analysis of the contours of an image. 4,701,7 10-20-87, Cl. 358-227.000.

Duvivier-Durev: *See—*
  Duvivier, Jean-Marie, 4,662,011, Cl. 5-476.000.

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Duwel, Dieter: *See—*
  Rosner, Manfred; Loewe, Heinz; Duwel, Dieter; and Kirsch, Reinhard, 4,639,463, Cl. 514-395.000.

Duwel, Edward C.: *See—*
  Soderberg, John H.; and Duwel, Edward C., 4,636,975, Cl. 364-900.000.

Duwell, Ernest J.: *See—*
  Abrahamson, Gerald R.; and Duwell, Ernest J., 4,705,124, Cl. 175-410.000.
  Bloecher, Ulrich; and Duwell, Ernest J., 4,652,275, Cl. 51-298.000.

Duyckinck, Robert W.: *See—*
  Heidinger, Alfred J.; and Duyckinck, Robert W., 4,681,676, Cl. 209-380.000.

Dvirka, Miro; Psihos, George J.; and Cosulich, Joseph J., to William F Cosulich Associates, P.C. Treatment of flue gas containing noxio gases. 4,681,045, 7-21-87, Cl. 110-345.000.

Dvorak, Antonin J.; and Toth, Francis C., to General Electric Company. Welded tungsten filament to lead joint. 4,661,739, 4-28-87, C 313-333.000.

Dvorak, Robert E.; and Fattedad, Frank D. Board game apparat representing transportation. 4,679,798, 7-14-87, Cl. 273-254.000.

Dvorak, Robert F.; and Netolicky, Charles E., to Square D Compan Rotary switch assembly. 4,638,133, 1-20-87, Cl. 200-302.100.

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Dvorak, Robert F., to Square D Company. Self-contained ground fa test feature in circuit breaker. 4,714,975, 12-22-87, Cl. 361-44.000.

Dvorak, Robert V.: *See—*
  Lee, Keibock; and Dvorak, Robert V., 4,686,628, Cl. 364-481.0

Dvornichenko, Anatoly: *See—*
  Jackson, Jacqueline J.; Dvornichenko, Anatoly; and Cooper, D iel, 4,663,127, Cl. 422-58.000.

Dvorsky, James E.; Kelley, Brian A.; McCown, Robert B.; and Ren G. Frederick, to Battelle Memorial Institute. Active multi-la piezoelectric tactile sensor apparatus and method. 4,634,917, 1-6- Cl. 310-328.000.

Dvorsky, Stephan; Radivojevich, Franz; and Joss, Hans, to Siegfr Aktiengesellschaft. Coronary therapeutic agent in the form of gelatin capsules. 4,689,233, 8-25-87, Cl. 424-455.000.

Dwek, Raymond A.; and Rademacher, Thomas W., to Mons Company. Diagnostic method for diseases having an arthritic com nent. 4,659,659, 4-21-87, Cl. 435-18.000.

Dwiggins, David F., to Westvaco Corporation. Delignification bleaching of a cellulose pulp with an alkalioxygen-hypochlo single stage sequential extraction. 4,657,633, 4-14-87, Cl. 162-65

Dwight, William H. Exercise machine having variable radius c arm. 4,673,178, 6-16-87, Cl. 272-73.000.

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  Wolfenson, Gilbert B.; and Dworetzky, Philip J., 4,668,188 433-37.000.

Dworschak, Karl: *See—*
  Jardin, Hans; and Dworschak, Karl, 4,705,316, Cl. 296-217.00

Dworski, Michael. Fish hook assembly. 4,667,437, 5-26-87, 43-42.360.

Dworsky, Lawrence N.: *See—*
  Chason, Marc K.; Kotecki, Carl A.; Tomase, Joseph P.; Ony Michael J.; Ryback, Donald J.; Kinsman, Robert G.; Dwo

Lawrence N.; Nield, Kenneth J.; and Moore, Steven C., 4,639,631, Cl. 310-344.000.

Dwyer, David J., to GTE Laboratories Incorporated. Optical coating apparatus. 4,669,418, 6-2-87, Cl. 118-664.000.

Dwyer, Francis G.; and Klocke, Donald J., to Mobil Oil Corporation. Large crystal ZSM-5 from template addition to the gel. 4,650,656, 3-17-87, Cl. 423-329.000.

Dwyer, Frank J.: *See—*

Zwolinski, Leon M.; and Dwyer, Frank J., 4,687,787, Cl. 521-131.000.

Zwolinski, Leon M.; and Dwyer, Frank J., 4,713,400, Cl. 521-131.000.

Dwyer, John J.; Saltzman, Jeremy; and Hipp, Betsy, to Dictaphone Corporation. Display including variable mode for a record and/or playback device. 4,688,117, 8-18-87, Cl. 360-72.300.

Dwyer, John J.: *See—*

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Dwyer, Mark A.: *See—*

Dwyer, Paul; and Dwyer, Mark A., 4,657,191, Cl. 241-101.700.

Dwyer, Michael L.: *See—*

Bhattacharyya, Bhupati R.; Srivatsa, Sanjay R.; and Dwyer, Michael L., 4,715,962, Cl. 210-708.000.

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Dwyer, Robert A.; and Ott, Russell G., to RCA Corporation. Universal interface circuit for microprocessor peripherals. 4,641,261, 2-3-87, Cl. 364-900.000.

Dwyer, Robert A., to RCA Corporation. Double level metal edge seal for a semiconductor device. 4,656,055, 4-7-87, Cl. 427-89.000.

Dyakov, Nikola G.; Guguchkova-Yanchuleva, Pravoslava T.; and Benchev, Dimiter V., to V T P "Maimex". Intraocular crystalline lens. 4,710,196, 12-1-87, Cl. 623-6.000.

Dyakov, Vladimir A.: *See—*

Nenakhov, Sergei S.; Tilles, Robert S.; Savinykh, Vitaly V.; Dyakov, Vladimir A.; and Nikitin, Vladimir V., 4,678,076, Cl. 198-525.000.

Dyball, Christopher J.: *See—*

Bouldin, Eric; Haddock, Richard; and Dyball, Christopher J., 4,692,402, Cl. 430-945.000.

Dybel, Frank R.; and Dybel, William P. Load monitoring system for progressive dies. 4,633,720, 1-6-87, Cl. 73-862.530.

Dybel, William P.: *See—*

Dybel, Frank R.; and Dybel, William P., 4,633,720, Cl. 73-862.530.

Dyben, Jerry F.; and Wulc, Stanley S., to Tokheim Corporation. Gauge apparatus for measuring liquid levels. 4,637,254, 1-20-87, Cl. 73-314.000.

Dybus, Herbert: *See—*

Wolowski, Eckard; Mirtsch, Frank; and Dybus, Herbert, 4,696,735, Cl. 208-408.000.

Dybwad, Jens P. Refractively scanned interferometer. 4,654,530, 3-31-87, Cl. 250-347.000.

Dyche, Mark P.: *See—*

Barnett, Christopher J.; Dyche, Mark P.; Golding, Victor G.; and Ng, Yat H., 4,653,100, Cl. 381-52.000.

Dyckerhoff Engineering GmbH: *See—*

Wolter, Albrecht; Hartmann, Rolf; Herchenbach, Horst; and Grisar, Alexander, 4,640,203, Cl. 110-346.000.

Dyckerhoff & Widmann Aktiengesellschaft: *See—*

Heimsoth, Harald; and Herbst, Thomas, 4,711,604, Cl. 405-260.000.

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Herrmann, Gero, 4,694,623, Cl. 52-223.00L.

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Jungwirth, Dieter; and Mannhart, Also, 4,640,068, Cl. 52-223.00L.

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Spang, Konrad; Herbst, Thomas; and Kellner, Urs, 4,652,179, Cl. 405-260.000.

Stauss, Eberhard; Klein, Hans-Rudolf; and Thalmeir, Alfons, 4,644,728, Cl. 52-710.000.

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Dydyk, Michael, to Motorola, Inc. Dual adjacent directional filters/combiners. 4,706,049, 11-10-87, Cl. 333-110.000.

Dye, Charles: *See—*

Dolan, John J.; and Dye, Charles, 4,692,967, Cl. 19-244.000.

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Dye, G. Frank: *See—*

Furrow, Roger W.; Young, Harold R.; and Dye, G. Frank, 4,687,033, Cl. 141-59.000.

Dye, John F., to Kendall Company, The. Tamper discouraging device. 4,693,707, 9-15-87, Cl. 604-111.000.

Dye, Leonard. Chuck for rotary metal cutting tool. 4,669,933, 6-2-87, Cl. 409-136.000.

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Dyer, Gerald P., to United Technologies Corporation. Metering valve. 4,637,420, 1-20-87, Cl. 137-242.000.

Dyer, Hugh D.: *See—*

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Dyer, John; and Kennette, John W., to Johnson & Johnson Products, Inc. Stabilized fabric. 4,695,500, 9-22-87, Cl. 428-134.000.

Dyer, Michael E., to Intera Corporation. Process for improving polymer substrate properties, and modified polymers produced thereby. 4,672,005, 6-9-87, Cl. 428-474.400.

Dyer, Michael E., to Intera Corporation. Shaped structure of polyamide treated with unsaturated monomer to effect single monomer unit addition branch. 4,705,831, 11-10-87, Cl. 525-426.000.

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Dyer, Ross M. W.; and Nowak, Edward, to Ciba-Geigy Corporation. Herbicidal concentrates. 4,637,830, 1-20-87, Cl. 71-105.000.

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Riggins, Oral L.; and Dyer, Thomas L., Jr., 4,672,259, Cl. 313-231.110.

Dyett, Derek H.: *See—*

Bolt, Reginald C.; Dyett, Derek H.; and Williams, Robert E., 4,635,653, Cl. 131-281.000.

Dyhr, Einar. Choke valve especially used in oil and gas wells. 4,709,900, 12-1-87, Cl. 251-5.000.

Dyke, David E.: *See—*

Adams, Kenneth J.; and Dyke, David E., 4,648,910, Cl. 148-6.200.

Dyke, Howard L. Method of automatically steering agricultural type vehicles. 4,700,301, 10-13-87, Cl. 364-424.000.

Dykema, Owen W. Constant spring force mechanism. 4,673,170, 6-16-87, Cl. 267-174.000.

Dykes, Charles D.: *See—*

Wood, John F. B.; Kaiser, Timothy D.; Allyn, Jerome B.; Dykes, Charles D.; Kalaskie, Frank E.; Carmichael, Robert J.; and Simon, Charles R., 4,694,899, Cl. 164-452.000.

Dykes, James R. King pin lock. 4,704,883, 11-10-87, Cl. 70-232.000.

Dykes, Robert M.: *See—*

Townsend, Ray T.; Smith, David W.; and Dykes, Robert M., 4,660,255, Cl. 17-49.000.

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Dyki, Joseph J., to Ford Motor Company. Electrical connector. 4,714,437, 12-22-87, Cl. 439-595.000.

Dykoski, Alan W.: *See—*

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Dykstra, Jerald P.; Ray, Andrew M.; and King, Monroe L., to Eaton Corporation. Ion beam implanter control system. 4,700,077, 10-13-87, Cl. 250-492.200.

Dykstra, Raymond C., to Cobe Laboratories, Inc. Pinch valve. 4,684,102, 8-4-87, Cl. 251-7.000.

Dykstra, Ronald A.; Hawks, Mark W.; and De Jong, Jerry M., to Prince Corporation. Vehicle interior light. 4,686,609, 8-11-87, Cl. 362-61.000.

Dykstra, Ronald A.: *See—*

Watjer, Sheldon J.; and Dykstra, Ronald A., 4,674,789, Cl. 296-97.00R.

Dylewski, Anthony J.: *See—*

Bardo, Charles J.; Seawell, Jesse Q.; Dylewski, Anthony J.; and Clark, John L., Jr., 4,637,903, Cl. 261-24.000.

Dyllick-Brenzinger, Rainer: *See—*

Loeffler, Hermann; and Dyllick-Brenzinger, Rainer, 4,668,774, Cl. 534-728.000.

Dyma, Horst; and Heindke, Armin, to Mannesmann Kienzle GmbH. Document encoder. 4,692,041, 9-8-87, Cl. 400-82.000.

Dymax Corporation: *See—*
  Matzuk, Terrance, 4,671,292, Cl. 128-060.000.
  Matzuk, Terrance, 4,676,105, Cl. 73-602.000.
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Dymenko, Vladimir V.: *See—*
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Dymo Science Inc.: *See—*
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Dymond, Brian, to Allied Colloids Ltd. Soil sealing compositions and methods. 4,669,920, 6-2-87, Cl. 405-264.000.
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Dymond, Brian; and Farrar, David, to Allied Colloids Limited. Aqueous well fluids. 4,699,722, 10-13-87, Cl. 252-8.551.
Dymond, Brian: *See—*
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Dynacast International Limited: *See—*
  Ferguson, James M., 4,632,932, Cl. 164-131.000.
Dynacycle Corporation: *See—*
  Irwin, Everett F.; and Walle, Irwin, 4,688,471, Cl. 91-482.000.
Dynaflair Corporation Canada Inc.: *See—*
  Schwalb, Horst, 4,694,669, Cl. 70-100.000.
Dynagram Corporation of America: *See—*
  Valentine, William, 4,684,534, Cl. 427-3.000.
Dynagraphic Merchandising Corporation: *See—*
  Glasener, Kenneth A., 4,658,526, Cl. 40-602.000.
Dynamic Air Inc.: *See—*
  Steele, James R., 4,708,535, Cl. 406-93.000.
Dynamic Corporation: *See—*
  Harkness, Jack A., 4,651,125, Cl. 338-295.000.
  Harkness, Jack A., 4,654,627, Cl. 338-319.000.
Dynamic Disk: *See—*
  Wray, Daniel X., 4,686,151, Cl. 428-607.000.
Dynamic Hydraulic Systems, Inc.: *See—*
  Rosman, Alan H., 4,665,696, Cl. 60-414.000.
  Rosman, Alan H., 4,702,076, Cl. 60-372.000.
  Rosman, Alan H., 4,715,180, Cl. 60-372.000.
  Rosman, Allan H., 4,686,828, Cl. 60-415.000.
Dynamics Corporation of America: *See—*
  Valbona, Bruno M.; Satkunas, Bruno; and Brym, Stanley J., 4,645,352, Cl. 366-349.000.
Dynamics Research Corporation: *See—*
  Bakewell, Joseph J., 4,636,811, Cl. 346-76.0PH.
  Bakewell, Joseph J., 4,636,812, Cl. 346-76.0PH.
  DuLong, Ronald X., 4,716,516, Cl. 364-132.000.
Dynamit Nobel Aktiengesellschaft: *See—*
  Barfurth, Dieter; and Nestler, Heinz, 4,647,680, Cl. 556-40.000.
  Bender, Richard; Bendler, Hellmut; Penner, Horst; and Sander, Reinhold, 4,644,863, Cl. 102-202.500.
  Bender, Richard; Bendler, Hellmut; Scheiderer, Gerrit; and Winkler, Hans, 4,660,473, Cl. 102-223.000.
  Bison, Gunter; Linkat, Norbert; and Thewalt, Klaus, 4,652,671, Cl. 560-168.000.
  Brede, Uwe; Kern, Heinz; and Kordel, Gerhard, 4,651,254, Cl. 361-248.000.
  Brede, Uwe; and Kordel, Gerhard, 4,653,211, Cl. 42-84.000.
  Brede, Uwe; Horr, Alfred; and Reiss, Heinz, 4,674,405, Cl. 102-202.000.
  Brede, Uwe; and Kordel, Gerhard, 4,690,056, Cl. 102-202.200.
  Burkhardt, Rudolf; and Hass, Hansjurgen, 4,645,382, Cl. 405-264.000.
  Donhauser, Friedrich; Schoengen, Anton; Schroeder, Johann H.; and Porschen, Jorg, 4,707,274, Cl. 210-774.000.
  El-Chahawi, Moustafa; and Meyer, Gunter, 4,699,999, Cl. 562-450.000.
  Engels, Hans-Werner; Neuschaeffer, Karlheinz; and Spielau, Paul, 4,668,659, Cl. 502-439.000.
  Engels, Hans-Werner; Neuschaffer, Karlheinz; and Spielau, Paul, 4,681,631, Cl. 106-4.000.
  Englaender, Fritz; and Vogt, Wilhelm, 4,665,218, Cl. 560-181.000.
  Fischer, Nikolaus H. J.; Mathey, Christoph; and Schoffl, Rainer, 4,681,017, Cl. 89-29.000.
  Florin, Johann; Heinemeyer, Friedrich; Roh, Peter; and Storrle, Hansmartin, 4,646,640, Cl. 102-217.000.
  Fuhrmann, Horst, 4,671,910, Cl. 264-54.000.
  Groh, Reiner; Kotzsch, Hans-Joachim; Srebny, Hans-Gunther; and Vahlensieck, Hans-Joachim, 4,642,363, Cl. 556-471.000.
  Hargarten, Werner; and Kautz, Rudolf, 4,696,709, Cl. 156-79.000.
  Hellriegel, Edmund, 4,702,040, Cl. 49-502.000.
  Hulsmann, Hans L.; Pass, Reinhard; and Hermsdorf, Horst, 4,643,850, Cl. 260-410.700.
  Kotzsch, Hans-Joachim; and Vahlensieck, Hans-Joachim, 4,647,681, Cl. 556-411.000.
  Kotzsch, Hans-Joachim; and Vahlensieck, Hans-Joachim, 4,677,215, Cl. 556-469.000.
  Kuhnel, Werner; and Spielau, Paul, 4,680,317, Cl. 521-89.000.
  Kurth, Josef; Mathey, Christoph; and Wissinger, Waldemar, 4,646,618, Cl. 89-1.816.
  Mattarelli, Ennio, 4,691,462, Cl. 42-75.040.
  Modic, Rudolf; Porschen, Jorg; Schoengen, Anton; and Wirges, Ralf, 4,642,369, Cl. 560-77.000.
  Modic, Rudolf; Porschen, Jorg; Schoengen, Anton; and Wirges, Ralf, 4,642,377, Cl. 562-483.000.
  Muller, Hartmut; Huber, Hans; Franzmann, Giselher; and Elmenthaler, Bernd, 4,668,763, Cl. 528-296.000.
  Penner, Horst, 4,669,383, Cl. 102-202.000.
  Penner, Horst; and Jensen, Ernst, 4,697,524, Cl. 102-498.000.
  Piotrowski, Bernhard; Buning, Robert; Janser, Bernhard; and Lang, Egon, 4,642,262, Cl. 428-296.000.
  Rodder, Karl-Martin, 4,716,051, Cl. 427-136.000.
  Schmidt, Hans-Georg, 4,673,760, Cl. 560-124.000.
  Schmidt, Werner, 4,708,743, Cl. 106-12.000.
  Schnippering, Friedhelm; and Rodder, Karl-Martin, 4,715,895, Cl 106-38.500.
  Spielau, Paul; Kuhnel, Werner; Klaar, Karlo; Gaspar, Bertram Weiss, Richard; Ulb, Horst; Breitscheidel, Hans-Ulrich; Klingberg, Gerd; and Fenske, Jurgen, 4,652,326, Cl. 156-244.110.
  Spielau, Paul; Vohwinkel, Horst; and Putz, Peter, 4,666,956, Cl 523-122.000.
  Steffen, Klaus-Dieter; and Meyer, Gunther, 4,673,751, C 549-294.000.
  Suerken, Hans P.; Amort, Jurgen; Hanisch, Horst; and van de Maas, Hendrikus, 4,649,220, Cl. 564-296.000.
Dynapac AB: *See—*
  Andersson, Uno; and Svensson, Bengt, 4,645,014, Cl. 173-49.00
  Persson, Gert, 4,634,188, Cl. 299-39.000.
Dynapac Mfg. Inc.: *See—*
  Tuneblom, Eskil, 4,697,850, Cl. 299-87.000.
Dynapert-HTC Corporation: *See—*
  Derrico, Gerard G., 4,672,912, Cl. 118-64.000.
  Derrico, Gerard G., 4,678,111, Cl. 228-37.000.
  Derrico, Gerard G., 4,681,250, Cl. 228-37.000.
  Derrico, Gerard G., 4,694,775, Cl. 118-64.000.
  Derrico, Gerard G., 4,712,719, Cl. 228-37.000.
  Finney, James L., 4,699,080, Cl. 118-666.000.
  Strattman, Wayne P., 4,658,513, Cl. 34-78.000.
  Waldron, Gerald E.; and Wilson, Edward J., 4,692,114, 432-198.000.
Dynasplints Systems, Inc.: *See—*
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Dynatech Computer Power, Inc.: *See—*
  Busam, Vincent A.; Bell, James C.; and Holcombe, Wayne 4,647,721, Cl. 379-102.000.
Dynatech Corporation: *See—*
  Kitchell, Judith P.; and de Riel, Stanton R., 4,692,328, 424-78.000.
Dynatech, Inc.: *See—*
  Walker, Robert A., 4,644,597, Cl. 5-449.000.
Dynatech/U-Z, Inc.: *See—*
  Hoffman, Jerzy, 4,697,056, Cl. 200-153.00S.
Dynavac, Inc.: *See—*
  Leisman, Thomas; and Huston, Jon, 4,681,186, Cl. 182-47.00
Dynavector, Inc.: *See—*
  Tominari, Noboru, 4,644,517, Cl. 369-134.000.
Dyneer Corporation: *See—*
  Thomey, Henry W.; and Heuninck, John B., 4,696,663, 474-133.000.
Dynes, Paul J.: *See—*
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Dynic Corporation: *See—*
  Ikeda, Sakio, 4,638,819, Cl. 131-331.000.
  Ikeda, Sakio; and Yonamine, Shozen, 4,691,717, Cl. 131-365.0
Dynisco, Inc.: *See—*
  Wareham, William, 4,679,438, Cl. 73-726.000.
  Wareham, William, 4,680,972, Cl. 73-730.000.
  Wareham, William, 4,702,113, Cl. 73-706.000.
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  Samson, Joseph E.; Wolff, Kenneth T.; Reid, Robert; He Gardner C.; Falkoff, Daniel M.; Dynneson, Ronald E.; Cle Daniel M.; and Baty, Kurt F., 4,654,857, Cl. 371-68.000.
Dyonics, Inc.: *See—*
  Prescott, Rochelle; and Leiner, Dennis C., 4,641,927 350-413.000.
  Sjostrom, Douglas D.; and Zemgals, Edvin, 4,705,03 128-305.000.
Dyott, Richard B., to Andrew Corporation. Method for makin aligning optical fiber with accessible guiding region. 4,66 5-26-87, Cl. 65-3.110.
Dyott, Richard B., to Andrew Corporation. Single mode, single ization optical fiber with accessible guiding region and met forming directional coupler using same. 4,669,814, 6-2-8 350-96.150.
Dyott, Richard B., to Andrew Corporation. Fiber-optic rotation 4,697,876, 10-6-87, Cl. 350-96.290.
Dyott, Richard B., to Andrew Corporation. Indium-clad fibe polarizer. 4,712,866, 12-15-87, Cl. 350-96.300.
Dysan Corporation: *See—*
  Dieffenbach, Harry N., 4,652,961, Cl. 360-133.000.

- Dysart, Theodore R., to Dresser Industries, Inc. Cone mouth debris exclusion shield. 4,688,651, 8-25-87, Cl. 175-371.000.
- Dysarz, Edward D. Multiwell pumping device. 4,676,311, 6-30-87, Cl. 166-68.500.
- Dysarz, Edward D. Device and method to set and salvage structures. 4,683,832, 8-4-87, Cl. 114-258.000.
- Dysarz, Edward D. Device to relieve sucker rod torque below ground level in a petroleum well. 4,714,110, 12-22-87, Cl. 166-68.000.
- Dyshlenko, Alexandr T.: *See—*
  - Lebedev, Vladimir K.; Chernenko, Ivan A.; Dyshlenko, Alexandr T.; Litvin, Leonid V.; and Tishura, Vladimir I., 4,712,724, Cl. 228-112.000.
  - Lebedev, Vladimir K.; Chernenko, Ivan A.; Dyshlenko, Alexandr T.; Litvin, Leonid V.; and Tishura, Vladimir I., 4,715,523, Cl. 228-2.000.
- Dyson, George W., to Chubb & Son's Lock and Safe Company Limited. Latching mechanism. 4,707,005, 11-17-87, Cl. 292-332.000.
- Dyson, James, to Notetry Limited. Cleaning apparatus. 4,643,748, 2-17-87, Cl. 55-338.000.
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  - Morganstein, Sanford J.; Tuck, Edward F.; Mehta, Bakulesh A.; and Krakau, Herbert B., 4,696,028, Cl. 379-88.000.
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- Dyvik, Froystein; and Mioen, Thomas K., to Boliden Aktiebolag. Method for manufacturing zinc hydrometallurgically. 4,710,277, 12-1-87, Cl. 204-119.000.
- Dzemeshkevich, Sergei L.; Zavalishin, Nikolai N.; Krasovskaya, Svetlana M.; Sagalevich, Valery M.; Konstantinov, Boris A.; Nenjukov, Alexandr K.; and Ivanov, Alexei S., to Moskovskoe Vysshee Tekhnicheskoe Uchilische Imeni N.E. Baumana. Bioprosthetic heart valve, methods and device for preparation thereof. 4,692,164, 9-8-87, Cl. 623-2.000.
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- Dzhagangirov, Farkhad N.: *See—*
  - Junusov, Sabir J.; Junusov, Marat S.; Telnov, Vladimir A.; Dzhagangirov, Farkhad N.; Satritdinov, Fakhritdin; and Taizhanov, Karimzhan, 4,656,178, Cl. 514-279.000.
- Dzhalabadze, Nikolai V.: *See—*
  - Asatiani, Georgy N.; Pikus, Evgeny A.; Kutelia, Elgudzha R.; Tsivtsivadze, David M.; Mudzhiri, Yason N.; and Dzhalabadze, Nikolai V., 4,695,360, Cl. 204-404.000.
- Dzhamanbaev, Zhenis A.: *See—*
  - Afanasiev, Vitaly A.; and Dzhamanbaev, Zhenis A., 4,656,259, Cl. 536-22.000.
- Dzhikia, Alexandr A.: *See—*
  - Chazov, Evgeny I.; Smirnov, Vladimir N.; Vinogradov, Valentin A.; Titov, Mikhail I.; Penin, Vladimir A.; Giorgadze, Alexandr K.; Titova, Galina P.; Bespalova, Zhanna D.; Pekelis, Boris L.; Permyakov, Nikolai K.; Emelyanov, Sergei I.; and Dzhikia, Alexandr A., 4,695,622, Cl. 530-329.000.
- Dziaduszek, Jerzy: *See—*
  - Dabrowski, Roman; Dziaduszek, Jerzy; Szulc, Jaroslaw; Witkiewicz, Zygfryd; Stolarz, Zofia; Kenig, Krystyna; and Adamska, Gabriela, 4,676,924, Cl. 252-299.610.
- Dziedzic, Edward: *See—*
  - Hoyt, Robert M.; Dziedzic, Edward; and Rinehart, William M., 4,707,964, Cl. 52-742.000.
- Dziedzic, Jerome J., to Flur Wire & Metal Inc. Workpiece holder for coating processes. 4,679,526, 7-14-87, Cl. 118-503.000.
- Dziemba, Peter; and Wenderoth, Karl, to MAP Mikrofilm Apparatebau Dr. Poehler GmbH & Co. KG. Transport mechanism. 4,699,372, 10-13-87, Cl. 271-251.000.
- Dziemba, Peter: *See—*
  - Poehler, Hermann; and Dziemba, Peter, 4,653,744, Cl. 271-264.000.
  - Poehler, Hermann; and Dziemba, Peter, 4,666,272, Cl. 353-25.000.
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- Dziewolski, Richard. Offshore platform designed in particular to constitute a pleasure center. 4,674,916, 6-23-87, Cl. 405-207.000.
- Dziggel, Klaus-Peter, to Siemens Aktiengesellschaft. Conveyor system comprising electrically driven conveyor cars that are closeable by means of a cover. 4,641,245, 2-3-87, Cl. 364-478.000.
- Dziki, Jeffrey P.: *See—*
  - Harrold, Donald T.; and Dziki, Jeffrey P., 4,651,602, Cl. 83-15.000.
- Dziki, Michael M., to Minnesota Mining and Manufacturing Company. Hand pressure attachment for use on thermoplastic dispensing device. 4,658,991, 4-21-87, Cl. 222-146.500.
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- Dziuk, Peter, to J.S. Staedtler, Firma. Writing point for writing or recording instruments and process for its manufacture. 4,634,306, 1-6-87, Cl. 401-215.000.
- Dziura, Richard A.: *See—*
  - Todaro, Frank A.; Dziura, Richard A.; and Castonguay, Roger N., 4,700,161, Cl. 335-172.000.
- Dzmura, Mark R.: *See—*
  - Friedman, Mark B.; Kiliany, Gary J.; and Dzmura, Mark R., 4,648,052, Cl. 364-550.000.
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  - Dzurkovich, Damon; and Dzurkovich, Joseph A., 4,703,583, Cl. 43-82.000.
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- Dzwinel, Jan, to Instytut Gornictwa Naftowego i Gazownictwa. Multifrequency method for direct airborne electromagnetic prospecting of hydrocarbon deposits. 4,641,100, 2-3-87, Cl. 324-330.000.
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  - Saraisky, Alfred, 4,659,031, Cl. 242-96.000.
- E&A Heyworth Enterprises, Inc.: *See—*
  - Heyworth, Malcolm I., 4,693,643, Cl. 408-82.000.
- E.A.S. Technologies, Inc.: *See—*
  - Fearon, Edward R.; and Fearon, Robert E., 4,682,154, Cl. 340-572.000.
- E. Allman & Company Limited: *See—*
  - Ganderton, Alfred D.; and Brazier, William A., 4,711,398, Cl. 239-167.000.
- E. B. Eddy Forest Products, Ltd.: *See—*
  - Gladish, Herbert E., 4,687,079, Cl. 188-268.000.
- E. Bruderer Maschinenfabrik AG: *See—*
  - Leinhaas, Werner, 4,660,452, Cl. 83-530.000.
- E.C.C. America Inc.: *See—*
  - Bilimoria, Bomi M.; Lewis, Herbert I.; Cook, Jerry A.; Turner, Ralph E., Jr.; and Garner, Robert H., 4,693,427, Cl. 241-23.000.
  - Dunaway, Weyman H.; and Salinas, Jorge E., 4,670,993, Cl. 34-10.000.
  - Dunaway, Weyman H., 4,678,517, Cl. 106-309.000.
  - Rice, Camilla A., 4,690,868, Cl. 428-409.000.
- E.C.H. Will (GmbH & Co.): *See—*
  - Besemann, Alfred, 4,708,332, Cl. 270-39.000.
  - Besemann, Alfred, 4,715,551, Cl. 242-46.400.
  - Herrig, Friedhelm, 4,669,344, Cl. 83-27.000.
  - Ladewig, Dieter; and Ramcke, Bernd, 4,710,256, Cl. 156-484.000.
- E. D. Bullard Company: *See—*
  - Blake, Bruce H., 4,656,667, Cl. 2-5.000.
- E.D.S. Company: *See—*
  - Schmidt, Edward D., 4,711,786, Cl. 426-19.000.
- E and E Specialties, Inc.: *See—*
  - White, Roger L., 4,687,128, Cl. 229-41.00R.
- E.F.C. Control Inc.: *See—*
  - Boissinot, Jean-Guy; and Begin, Pierre, 4,666,478, Cl. 55-279.000.
- E. F. Johnson Company: *See—*
  - Stursa, Lloyd C., 4,645,288, Cl. 339-177.00R.
  - Stursa, Lloyd C., 4,655,534, Cl. 339-177.00R.
- E&G Classics, Inc.: *See—*
  - Eash, David D., 4,714,290, Cl. 296-210.000.
- E & G Enterprises: *See—*
  - Smith, Elmer L.; McLarty, Gerold E.; and Smith, Geraldine L., 4,675,575, Cl. 315-185.00S.
- E.G.O. Elektro-Gerate Blanc u. Fischer: *See—*
  - Essig, Willi; and Petri, Heinz, 4,695,816, Cl. 337-394.000.
  - Essig, Willi; and Mannuss, Siegfried, 4,704,595, Cl. 337-107.000.
  - Essig, Willi; Mayer, Hans; and Mannuss, Siegfried, 4,713,502, Cl. 200-61.820.
  - Fischer, Karl; Schreder, Felix; and Kicherer, Robert, 4,680,452, Cl. 219-449.000.
  - Goessler, Gerhard; Schreder, Felix; and Wilde, Eugen, 4,700,051, Cl. 219-464.000.
  - Kicherer, Robert; and Reif, Stefan, 4,650,969, Cl. 219-451.000.
  - Kicherer, Robert; Krist, Josef; and Reinhardt, Jens-Uwe, 4,699,269, Cl. 206-320.000.
  - Knauss, Hermann, 4,691,096, Cl. 219-441.000.
  - Schreder, Felix, 4,695,708, Cl. 219-486.000.
  - Schreder, Felix, 4,697,068, Cl. 219-449.000.
  - Schreder, Felix, 4,716,277, Cl. 219-449.000.
- E. H. Wachs Company, The: *See—*
  - Galos, Imre G., 4,655,108, Cl. 82-38.00R.
  - Kwech, Horst; and Olson, Peter K., 4,677,884, Cl. 82-4.00C.
- E. Hawle & Co.: *See—*
  - Hawle, Erwin, 4,657,288, Cl. 285-420.000.
  - Hawle, Erwin, 4,706 529, Cl. 82-1.00C.
- E & I Corporation: *See—*
  - Lowry, John A., 4,670,142, Cl. 210-207.000.
- E.I. Du Pont de Nemours and Company: *See—*
  - Ashcraft, Robert W., 4,693,959, Cl. 430-323.000.
  - Boswell, George A.; Mackin, William M.; and Thoolen, Martin J., 4,668,676, Cl. 514-243.000.
  - Carson, David M.; and Weyant, Oakley L., Jr., 4,693,702, Cl. 494-61.000.
  - Chang, Ike Y., 4,681,911, Cl. 524-607.000.
  - Cohen, Abraham B.; and Webers, Vincent J., 4,668,604, Cl. 430-258.000.
  - Hesson, David P., 4,680,299, Cl. 514-311.000.
  - Jansson, Peter A.; Rogers, Wade T.; and Schwaber, James S., 4,673,988, Cl. 358-280.000.

Lau, Hon-Peng P.; Yang, Esther K.; and Jacobson, Howard W., 4,661,408, Cl. 428-405.000.
Lee, Denny L. Y., 4,679,142, Cl. 364-406.000.
Levitt, George; and Zimmerman, William T., 4,680,053, Cl. 71-93.000.
Roberts, Bryan E., 4,668,624, Cl. 435-68.000.
Ruskin, Maureen K., 4,661,439, Cl. 430-449.000.
Shami, Elie G., 4,668,685, Cl. 514-279.000.
Vassilatos, George, 4,687,610, Cl. 264-211.140.
Vasta, Joseph A., 4,659,770, Cl. 524-553.000.
E. J. Brooks Company: *See—*
Guiler, Richard S., 4,674,304, Cl. 70-164.000.
Mautner, Jacob E., 4,676,535, Cl. 292-320.000.
Swift, Allan W., 4,687,240, Cl. 292-320.000.
E & J Enterprises, Inc.: *See—*
Graves, Rodney J., 4,635,660, Cl. 132-92.00A.
E. K. Mailing Machines Inc.: *See—*
Buckholz, Frederick, 4,649,691, Cl. 53-53.000.
E. L. LeBaron Foundry Co.: *See—*
LeBaron, Francis, 4,673,310, Cl. 404-26.000.
LeBaron, Francis, 4,690,584, Cl. 404-26.000.
E.M.M. Emiliana Macchine Maglieria S.R.L.: *See—*
Stoppazzini, Benito, 4,660,392, Cl. 66-149.00R.
Stoppazzini, Benito, 4,667,488, Cl. 66-75.100.
Stoppazzini, Benito, 4,686,838, Cl. 66-71.000.
Stoppazzini, Benito, 4,697,439, Cl. 66-149.00R.
E M X International Limited: *See—*
Bartlett, David W., 4,639,689, Cl. 331-65.000.
E-Mu Systems, Inc.: *See—*
Weuge, D. Scott, 4,699,038, Cl. 84-1.100.
E.P. Remy & Cie: *See—*
Lemaire, Didier V.; and Dronet, Jean-Marc, 4,697,695, Cl. 198-803.150.
E.R.G. Management Services Pty., Ltd.: *See—*
Kent, Roger S., 4,694,289, Cl. 340-815.050.
E. R. Squibb & Sons: *See—*
Gordon, Eric M.; and Varma, Ravi K., 4,672,075, Cl. 514-469.000.
E. R. Squibb & Sons, Inc.: *See—*
Arnone, Ronald; and Ferguson, Keith, 4,642,107, Cl. 604-342.000.
Atwal, Karnail, 4,647,561, Cl. 514-221.000.
Atwal, Karnail, 4,650,797, Cl. 514-221.000.
Atwal, Karnail, 4,654,335, Cl. 514-211.000.
Atwal, Karnail, 4,684,655, Cl. 514-274.000.
Atwal, Karnail, 4,684,656, Cl. 514-274.000.
Atwal, Karnail, 4,689,414, Cl. 544-297.000.
Auth, David C., 4,646,736, Cl. 128-303.00R.
Bisacchi, Gregory S.; and Koster, William H., 4,654,426, Cl. 549-548.000.
Breuer, Hermann; and Denzel, Theodor, 4,670,553, Cl. 540-363.000.
Das, Jagabandhu, 4,638,011, Cl. 514-438.000.
Das, Jagabandhu; and Nakane, Masami, 4,663,337, Cl. 514-382.000.
Das, Jagabandhu, 4,670,453, Cl. 514-382.000.
DeCrosta, Mark T.; Jain, Nemichand B.; and Rudnic, Edward M., 4,666,705, Cl. 424-482.000.
Delaney, Norma G.; and Gordon, Eric M., 4,670,541, Cl. 530-331.000.
Feld, Thomas A.; Juri, Pedro N.; and Treher, Elizabeth N., 4,714,605, Cl. 424-1.100.
Ferguson, Keith T., 4,648,875, Cl. 604-339.000.
Ferguson, Keith T., 4,664,661, Cl. 604-342.000.
Ferguson, Keith T., 4,685,990, Cl. 156-253.000.
Floyd, David; and Atwal, Karnail, 4,694,002, Cl. 514-211.000.
Gegelys, Anthony A., 4,643,726, Cl. 604-368.000.
Godfrey, Jollie D., Jr.; Gordon, Eric M.; and Delaney, Norma G., 4,636,560, Cl. 530-331.000.
Gordon, Eric M., 4,636,522, Cl. 514-423.000.
Gordon, Eric M.; and Weller, Harold N., III, 4,642,315, Cl. 514-307.000.
Gordon, Eric M., 4,692,455, Cl. 514-332.000.
Gordon, Eric M.; Godfrey, Jollie D., Jr.; and Delaney, Norma G., 4,714,757, Cl. 530-329.000.
Hall, Steven E.; and Nakane, Masami, 4,656,185, Cl. 514-382.000.
Hall, Steven E.; Haslanger, Martin F.; and Varma, Ravi K., 4,661,506, Cl. 511-382.000.
Haugwitz, Rudiger D.; and Sprague, Peter W., 4,681,886, Cl. 514-259.000.
Jensen, Ole R., 4,650,452, Cl. 493-206.000.
Jensen, Ole R.; and Ferguson, Keith T., 4,673,401, Cl. 604-353.000.
Karanewsky, Donald S.; and Dejneka, Tamara, 4,670,422, Cl. 514-63.000.
Karanewsky, Donald S.; and Dejneka, Tamara, 4,686,298, Cl. 549-218.000.
Karanewsky, Donald S.; and Petrillo, Edward W., Jr., 4,703,043, Cl. 514-80.000.
Karanewsky, Donald S., 4,711,884, Cl. 514-226.000.
Karanewsky, Donald S.; and Petrillo, Edward W., Jr., 4,716,155, Cl. 514-89.000.
Koster, William H.; and Breuer, Hermann, 4,670,554, Cl. 540-355.000.
Krapcho, John, 4,709,046, Cl. 548-409.000.
Kronenthal, David, 4,638,062, Cl. 540-355.000.
Liu, Wen-Chih; Parker, William L.; Singh, Pushpa; and Sykes, Richard B., 4,686,299, Cl. 549-271.000.
Loots, Melanie J.; Hall, Steven E.; and Sprague, Peter W., 4,647,585, Cl. 514-530.000.
Misra, Raj N., 4,714,714, Cl. 514-572.000.
Moniot, Jerome L.; Cimarusti, Christopher M.; and Fox, Rita T., 4,704,457, Cl. 540-355.000.
Nakane, Masami, 4,638,012, Cl. 514-469.000.
Nakane, Masami, 4,639,461, Cl. 514-382.000.
Nakane, Masami, 4,647,573, Cl. 514-382.000.
Nakane, Masami, 4,652,576, Cl. 514-382.000.
Nakane, Masami; and Hall, Steven E., 4,652,578, Cl. 514-382.000.
Nakane, Masami; and Reid, Joyce, 4,654,355, Cl. 514-382.000.
Nakane, Masami; and Reid, Joyce, 4,654,356, Cl. 514-382.000.
Nakane, Masami, 4,654,357, Cl. 514-382.000.
Nakane, Masami; and Reid, Joyce, 4,663,336, Cl. 514-381.000.
Nunn, Adrian D.; Feld, Thomas A.; and Treher, Elizabeth N., 4,705,849, Cl. 534-14.000.
Ondetti, Miquel A.; and Pluscec, Josip, 4,684,660, Cl. 514-423.000.
Opie, Eric A.; and Clement, Thomas J., 4,679,557, Cl. 128-305.000.
Ryono, Denis E.; and Petrillo, Edward W., Jr., 4,665,193, Cl. 548-344.000.
Sedergran, Thomas C.; and Anderson, Carl F., 4,675,398, Cl. 540-355.000.
Slusarchyk, William A.; and Koster, William H., 4,638,061, Cl. 540-355.000.
Slusarchyk, William A.; Dejneka, Tamara; Koster, William H.; and Gordon, Eric M., 4,681,937, Cl. 540-355.000.
Slusarchyk, William A.; and Dejneka, Tamara, 4,694,083, Cl. 546-14.000.
Sundeen, Joseph E.; Koster, William H.; and Zahler, Robert, 4,638,060, Cl. 540-203.000.
Sundeen, Joseph E.; Koster, William H.; and Zahler, Robert, 4,680,388, Cl. 540-203.000.
Sundeen, Joseph E., 4,684,722, Cl. 540-203.000.
Thottathil, John K., 4,670,193, Cl. 260-502.40R.
Thottathil, John K., 4,687,865, Cl. 549-463.000.
Treuner, Uwe D., 4,680,409, Cl. 548-194.000.
Varma, Ravi K.; and Das, Jagabandhu, 4,654,364, Cl. 514-469.000
Varma, Ravi K.; and Das, Jagabandhu, 4,654,366, Cl. 514-469.000
Varma, Ravi K.; and Das, Jagabandhu, 4,654,367, Cl. 514-469.000
Varma, Ravi K.; Gordon, Eric M.; and Simpkins, Ligaya M., 4,673,685, Cl. 514-333.000.
Varma, Ravi K.; and Gordon, Eric M., 4,695,585, Cl. 514-469.000
Varma, Ravi K.; Chao, Sam T.; and Gordon, Eric M., 4,695,58 Cl. 514-469.000.
Varma, Ravi K.; Ciosek, Carl P.; and Gordon, Eric M., 4,707,494 Cl. 514-469.000.
Varma, Ravi K.; and Gordon, Eric M., 4,711,900, Cl. 514-351.00
Weller, Harold N., III; and Gordon, Eric M., 4,638,010, C 514-423.000.
Zahler, Robert; Breuer, Hermann; and Jacobs, Glenn A., 4,647,66 Cl. 540-355.000.
E. R. Wagner Mfg. Company: *See—*
Broeske, Jeffrey J., 4,706,328, Cl. 16-35.00R.
E.S.G. Controls, Ltd.: *See—*
Robinson, Anthony, 4,637,349, Cl. 122-448.00B.
E-Systems, Inc.: *See—*
Cloud, James M., Jr.; and Weideman, William R., 4,654,528, C 250-336.100.
Harris, Mark A., 4,692,724, Cl. 333-202.000.
Kennett, Scott W., 4,639,938, Cl. 375-60.000.
Kennett, Scott W., 4,644,293, Cl. 330-296.000.
King, Dennis D., 4,646,097, Cl. 342-95.000.
King, Dennis D.; and Dautel, David F., 4,676,660, Cl. 368-113.00
Masheff, Michael S.; and Sanders, David E., 4,696,017, C 375-60.000.
Middleton, William J., Jr., 4,636,802, Cl. 343-895.000.
E-Vac, Inc.: *See—*
Mickler, Paul W., 4,672,711, Cl. 15-306.00A.
E. W. Buschman Company, The: *See—*
Yu, Thomas C.; Vogt, Robert K.; and Wilkins, John J., 4,711,34 Cl. 198-372.000.
E-W Mold & Tool Co., Inc.: *See—*
Grannen, Walter A., III, 4,676,731, Cl. 425-570.000.
E-Z-Em, Inc.: *See—*
Greene, Franklin R.; Stern, Howard S.; and Waye, Jerome D 4,640,273, Cl. 128-136.000.
Greene, Franklin R.; Zimmet, Arthur L.; Waye, Jerome D.; a Petix, Edward A., 4,643,197, Cl. 128-762.000.
Meyers, Phillip H., 4,670,658, Cl. 250-519.100.
Onik, Gary; and Ginsburg, Leonard, 4,678,459, Cl. 604-22.000.
E-Z Machine Corp.: *See—*
Lowe, William F., 4,698,114, Cl. 156-353.000.
E-Z Trail, Inc.: *See—*
Kuhns, Abe B., 4,646,942, Cl. 222-144.500.
E-Zee Company, Inc.: *See—*
Thompson, Joseph V., Jr., 4,667,433, Cl. 43-25.200.
Eachus, Vernon F.: *See—*
Kelley, Anthony D.; Finley, James W.; Eachus, Vernon F.; L Richard A.; and Yano, Miles K., 4,702,439, Cl. 244-158.00A
Eacobacci, Michael J.; and Planchard, David C., to Helix Technol Corporation. Cryopump with exhaust filter. 4,655,046, 4-7-87, 62-55.500.
Eade, William D. Universal joint servicing tool. 4,646,412, 3-3-87, 29-259.000.
Eades, Lindsay R.: *See—*
Batjer, John D.; Eades, Lindsay R.; Liedtke, Raymond J.; Zebelman, Arthur M., 4,641,674, Cl. 134-138.000.
Eads, Harold O.; and Planthaber, Rudolph F., to O. Ames Co. Pl grain scoop. 4,655,494, 4-7-87, Cl. 294-49.000.

- Eads, Rand E.; Boolootian, Mark R.; and Hankin, Steven C., to United States of America, Agriculture. Means and method of sampling flow related variables from a waterway in an accurate manner using a programmable calculator. 4,660,422, 4-28-87, Cl. 73-863.020.
- Eady, Robert W.: *See—*
  - Davis, Arthur A.; and Eady, Robert W., 4,662,002, Cl. 455-601.000.
  - Davis, Aurthur A.; and Eady, Robert W., 4,679,250, Cl. 455-601.000.
- Eagar, Thomas W.: *See—*
  - Barringer, Eric A.; and Eagar, Thomas W., 4,662,952, Cl. 148-23.000.
- Eagen, Duane M.; and Meek, Robert K., to Prince Valve, Inc. Jacketed valve. 4,687,018, 8-18-87, Cl. 137-340.000.
- Eager, George S., Jr.: *See—*
  - Katz, Carlos; Dima, Attila F.; and Eager, George S., Jr., 4,681,985, Cl. 174-73.00R.
- Eager, Thomas W.: *See—*
  - Cabrera, Rene J.; and Eager, Thomas W., 4,646,734, Cl. 128-303.100.
- Eagle Electric Mfg. Co., Inc.: *See—*
  - Leopold, Howard S., 4,688,135, Cl. 361-118.000.
  - Munroe, Ronald G., 4,669,804, Cl. 439-398.000.
  - Munroe, Ronald G., 4,669,807, Cl. 439-787.000.
- Eagle Industries, Inc.: *See—*
  - Meyer, Fred J., 4,644,603, Cl. 15-104.3SN.
- Eagle Manufacturing Company: *See—*
  - Gillispie, John G.; and Mitchell, Donald J., 4,645,099, Cl. 222-472.000.
  - Gillispie, John G., 4,662,544, Cl. 222-385.000.
- Eagle, Paul A.: *See—*
  - Maddux, Forrest E., Jr.; Eagle, Paul A.; and Robbins, Robert L., 4,694,638, Cl. 53-459.000.
- Eagle-Picher Industries, Inc.: *See—*
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  - Cargould, Barry D.; and Beebe, James C., 4,699,185, Cl. 141-1.000.
  - Goodell, Eston B.; and Dinda, Bruce L., 4,668,536, Cl. 427-235.000.
  - Higbie, Robert E.; and Beebe, James C., 4,702,287, Cl. 141-4.000.
  - Markle, Richard A.; and Melchior, Wayne R., 4,699,965, Cl. 526-304.000.
  - Meisner, Edward O.; and Romine, Charles F., 4,695,061, Cl. 277-27.000.
  - Traylor, John W., 4,663,819, Cl. 29-432.000.
- Eagleair, Inc.: *See—*
  - Hagar, Donald K.; Kennedy, Curtis V.; and Townsend, Garnold, 4,675,026, Cl. 165-9.000.
- Eakin, David M., to United States of America, Navy. Expanding latch captive bolt fastener. 4,671,718, 6-9-87, Cl. 411-345.000.
- Eakin, Murdoch A.; Edwards, Philip N.; and Large, Michael S., to Imperial Chemical Industries PLC. Bisbiguanide compounds. 4,670,592, 6-2-87, Cl. 564-234.000.
- Eames, Thomas R.: *See—*
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- Earhart, Jonathan P.; Kostecki, John A.; and McNutt, Adrian C., to Stauffer Chemical Company. Process for removing alkali metal aluminum silicate scale deposits from surfaces of chemical process equipment. 4,713,119, 12-15-87, Cl. 134-3.000.
- Earl, Geoffrey H.: *See—*
  - Aldrich, Robert G.; Earl, Geoffrey H.; and Trunko, David W., 4,698,289, Cl. 430-106.600.
- Earl, Gregory. Fuel evaporation apparatus and method. 4,665,879, 5-19-87, Cl. 123-557.000.
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  - Carter, Alan T.; Carter, Lloyd W.; and Earl, Richard, 4,700,862, Cl. 220-6.000.
- Earl Wright Company: *See—*
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- Earle, George A., III: *See—*
  - Murray, William J.; and Earle, George A., III, 4,637,761, Cl. 408-16.000.
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  - Hawkes, Graham S., 4,655,673, Cl. 414-730.000.
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- Earls, Jimmy D.: *See—*
  - Swearingen, Loren L.; Earls, Jimmy D.; and LaTulip, Randy J., 4,647,616, Cl. 524-600.000.
  - Swearingen, Loren L.; Earls, Jimmy D.; and LaTulip, Randy J., 4,668,767, Cl. 528-341.000.
  - Swearingen, Loren L.; Earls, Jimmy D.; and LaTulip, Randy J., 4,684,693, Cl. 524-600.000.
- Early California Foods, Inc.: *See—*
  - Scrimshire, Hershell, 4,664,926, Cl. 426-270.000.
- Early, Paul D., Jr.: *See—*
  - Syvarth, Anne S.; Gordin, Harvey H.; Early, Paul D., Jr.; Needs, Kathy A.; and Perfetti, Thomas A., 4,711,255, Cl. 131-330.000.
- Early, Stanley T.: *See—*
  - Shorter, John J.; and Early, Stanley T., 4,645,508, Cl. 623-48.000.
- Early, Stephen R.; and Grogan, Daniel, to Tektronix, Inc. Rhodium capped gold IC metallization. 4,687,552, 8-18-87, Cl. 204-15.000.
- Early, Susan E. Fishing line gripping and release assembly for attachment to a floatation member. 4,635,391, 1-13-87, Cl. 43-26.100.
- Early, Thad: *See—*
  - Engelmann, Rudolph H.; and Early, Thad, 4,673,888, Cl. 330-10.000.
- Earth Chemical Company, Limited: *See—*
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- Earth Protection Systems, Inc.: *See—*
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- Earthquake Protection Systems, Inc.: *See—*
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- Earthship Enterprise, Inc.: *See—*
  - Britz, Richard D., 4,633,629, Cl. 52-169.110.
- Earwood, Donald E., Sr. Telephone cord twist restrainer. 4,679,234, 7-7-87, Cl. 379-438.000.
- Easdon, Jerome C.: *See—*
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- Easfind Limited: *See—*
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- Eash, David D., to E&G Classics, Inc. Simulated padded car roof cover. 4,714,290, 12-22-87, Cl. 296-210.000.
- Eash, Lester E. Stopper remover. 4,708,033, 11-24-87, Cl. 81-3.370.
- Eash, Matthew G.: *See—*
  - Hayes, Cecil E.; and Eash, Matthew G., 4,642,569, Cl. 324-318.000.
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- Easley, James C.: *See—*
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- Eason, Paul M.: *See—*
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  - Anderson, Gregory A.; Eason, Paul M.; Marzalek, Michael S.; and Wheelwright, Lynn M., 4,660,150, Cl. 364-485.000.
- Eassa, Hussam E.: *See—*
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- East, Gary P.: *See—*
  - Schulte, Rudolf R.; East, Gary F.; Bryant, Marga M.; and Heindl, Alfons, 4,636,194, Cl. 604-9.000.
  - Schulte, Rudolf R.; East, Gary P.; and Heindl, Alfons, 4,681,560, Cl. 604-9.000.
- East, Judith A.: *See—*
  - Bondy, Daniel A.; East, Judith A.; and Rizzo, Christina M., 4,641,387, Cl. 5-508.000.
- East Moline Metal Products Company: *See—*
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  - Arbogast, Bradley W., 4,699,878, Cl. 435-11.000.
- East/West Industries, Inc.: *See—*
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  - Spinosa, Dominic J.; and Knoll, Frank, 4,709,818, Cl. 206-524.800.
  - Spinosa, Dominic J.; and Knoll, Frank, 4,715,561, Cl. 244-129.100.
- East, William S.: *See—*
  - Armstrong, Archie E.; and East, William S., 4,669,224, Cl. 51-135.00R.
- Eastep, Calvin W., to Kowah, Inc. Microcomputer controlled instant electric water heating and delivery system. 4,713,525, 12-15-87, Cl. 219-308.000.
- Easter, Brian: *See—*
  - Kropielnicki, Jerzy J.; Easter, Brian; and Last, James D., 4,654,669, Cl. 343-704.000.
- Easter, Finis C., to RCA Corporation. Switching DC-to-DC converters. 4,641,229, 2-3-87, Cl. 363-21.000.
- Easter, James R.: *See—*
  - Schaefer, William F.; Little, James L.; Cooper, Kenneth F.; and Easter, James R., 4,675,147, Cl. 376-245.000.
- Easter, John H.: *See—*
  - Blandford, David M.; and Easter, John H., 4,678,031, Cl. 166-242.000.
- Easter, Leland E.: *See—*
  - Gilmore, William J.; and Easter, Leland E., 4,657,212, Cl. 248-56.000.
- Easter, Michael D. Storage reel with self-adjusting hub for precoiled goods. 4,700,908, 10-20-87, Cl. 242-86.400.
- Easterling, Teddy G. Apparatus for splicing magnetic tape. 4,698,119, 10-6-87, Cl. 156-506.000.
- Easterly, James P., Jr.; Foshee, William C.; and Lamphere, Jack C., to Dow Chemical Company, The. Coal liquor clarification with water-soluble, high molecular weight polymers having low concentration of cationic moieties. 4,676,913, 6-30-87, Cl. 210-734.000.
- Eastern Artificial Insemination Cooperative, Inc.: *See—*
  - Schultz, Ronald D., 4,699,789, Cl. 424-105.000.
- Eastern Canvas Products, Inc.: *See—*
  - Goldman, Mark; Frank, Robert; Roberts, Craig; and Jacobs, Norman, 4,643,343, Cl. 224-275.000.
- Eastern Company, The: *See—*
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  - Frease, Jerry, 4,664,561, Cl. 405-261.000.
  - Pastva, John V., 4,641,865, Cl. 292-5.000.
  - Swan, Jye P.; Weinerman, Lee S.; and Mayo, Steven A., 4,706,478, Cl. 70-208.000.
  - Weinerman, Lee S.; and Vargus, Joel T., 4,671,547, Cl. 292-197.000.
  - Weinerman, Lee S.; and Vargus, Joel T., 4,674,780, Cl. 292-336.300.

Weinerman, Lee S.; and Vargus, Joel T., 4,679,835, Cl. 292-197.000.
Weinerman, Lee S.; Rachocki, Michael J.; and Giarrizzo, John F., 4,683,736, Cl. 70-208.000.
Weinerman, Lee S.; and Vargus, Joel T., 4,703,961, Cl. 292-216.000.
Wolniak, Stanley C.; Laabs, Timothy P.; and Schulz, Richard H., Jr., 4,633,689, Cl. 70-379.00R.
Wolniak, Stanley C.; and Laabs, Timothy P., 4,689,977, Cl. 70-379.00R.
Eastern Pennsylvania Co., Inc., The: *See*—
Wood, Theodore N., Jr., 4,648,526, Cl. 220-85.00P.
Wood, Theodore N., Jr., 4,651,888, Cl. 220-85.00P.
Eastern Refractories Company, Inc.: *See*—
Feinzig, David S.; Watson, I. Wesley; and Hahn, Clifford H., 4,676,946, Cl. 376-289.000.
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Eastlund, Bernard J., to APTI, Inc. Method and apparatus for altering a region in the earth's atmosphere, ionosphere, and/or magnetosphere. 4,686,605, 8-11-87, Cl. 361-231.000.
Eastlund, Bernard J.; and Ramo, Simon, to APTI, Inc. Method and apparatus for creating an artificial electron cyclotron heating region of plasma. 4,712,155, 12-8-87, Cl. 361-231.000.
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Eastman, James M., to Allied Corporation. Fuel metering system. 4,640,093, 2-3-87, Cl. 60-39.281.
Eastman, James M., to Allied Corporation. Control system for an air motor. 4,651,621, 3-24-87, Cl. 91-361.000.
Eastman, Jay M.; and Boles, John A., to Optel Systems Inc. Optical device for detecting coded symbols. 4,652,750, 3-24-87, Cl. 250-239.000.
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Almeter, David D.; and Edwards, Jon K., 4,652,754, Cl. 250-325.000.
Ambro, Joseph H.; and Contois, Lawrence E., 4,657,831, Cl. 430-14.000.
Anagnostopoulos, Constantine; and White, Marvin H., 4,654,683, Cl. 357-24.000.
Angeli, Gerald J., 4,652,105, Cl. 354-121.000.
Armstrong, Timothy G.; Kroll, Arthur S.; and Shuster, Frank A., 4,647,186, Cl. 355-15.000.
Atkinson, William C., 4,682,870, Cl. 354-275.000.
Babb, Bruce E.; and Daniel, Daniel S., 4,670,385, Cl. 435-28.00
Barrett, Harold J., 4,685,000, Cl. 358-332.000.
Baumeister, Hans P., 4,660,073, Cl. 358-21.00R.
Baumeister, Hans P., 4,684,995, Cl. 358-227.000.
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Baumeister, Hans-Peter; Greenwald, Roger J.; and Schauffele, Ca N., 4,675,755, Cl. 360-35.100.
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Bischoff, Gene L.; and Elly, James E., 4,714,969, Cl. 360-66.00
Bishop, John F., 4,695,526, Cl. 430-215.000.
Bizjak, John F., 4,714,967, Cl. 360-48.000.
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Franke, Hans G., 4,639,405, Cl. 430-124.000.
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Hinshaw, Jerald C.; Toner, John L.; and Reynolds, George A., 4,637,988, Cl. 436-546.000.
Hinshaw, Jerald C.; Toner, John L.; and Reynolds, George A., 4,670,572, Cl. 556-1.000.
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Pike, Susan C., 4,634,286, Cl. 366-320.000.
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Pruett, Wayne P.; Wang, Richard H. S.; Hilbert, Samuel D.; and Weaver, Max A., 4,661,566, Cl. 525-445.000.
Pruett, Wayne P.; Wang, Richard H. S.; Hilbert, Samuel D.; and Weaver, Max A., 4,707,537, Cl. 528-288.000.

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Randall, Kent A., 4,714,241, Cl. 271-3.100.
Raychaudhuri, Pranab K., 4,710,452, Cl. 430-495.000.
Remley, Herbert D., 4,684,605, Cl. 430-537.000.
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Rudick, Arthur G., 4,676,370, Cl. 206-1.500.
Rule, Mark; Larkins, Thomas H., Jr.; Lane, Donald W.; and Steinmetz, Guy R., 4,649,216, Cl. 562-406.000.
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Singer, Stephen P., 4,634,654, Cl. 430-223.000.
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Bielinski, Ralph F.; Jaeschke, James R.; Krstic, Slobodan; Earl T.; and Theisen, Peter J., 4,642,481, Cl. 307-252.0UA
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Cote, William F., 4,702,127, Cl. 74-866.000.
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Duve, John P., 4,649,239, Cl. 200-38.00R.
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Giere, David W., 4,696,164, Cl. 60-485.000.
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  Iwata, Minoru; and Kuji, Nobuyuki, 4,672,249, Cl. 310-90.000.
  Kataoka, Tadashi, 4,641,842, Cl. 277-83.000.
  Kondo, Hideki; Shimizu, Noburu; and Kanemitsu, Yoichi, 4,688,989, Cl. 415-122.00R.
  Maeda, Kensaku; Fujiwara, Satoru; Mochizuki, Teiichi; and Nagashima, Yutaka, 4,669,279, Cl. 62-505.000.
  Maeda, Kensaku; Fujiwara, Satoru; and Mochizuki, Teiichi, 4,671,082, Cl. 62-515.000.
  Maeda, Kensaku; and Mochizuki, Teiichi, 4,687,411, Cl. 415-122.00R.
  Miyagawa, Teiji; Iwamura, Yoshio; and Hayakawa, Masao, 4,696,452, Cl. 251-25.000.
  Mizobuchi, Shotaro; Kimura, Yoshikazu; and Sasaki, Katusmi, 4,699,525, Cl. 384-369.000.
  Nishimori, Shinji, 4,697,746, Cl. 241-46.00B.
  Tsuji, Seiichi; Ogawara, Kazuhiro; Koide, Shikuo; and Mizobuchi, Shotaro, 4,664,595, Cl. 415-170.00R.
  Yamada, Koichi; Hiraiwa, Ichiro; Taniguchi, Shin; and Zengo, Toshinari, 4,680,109, Cl. 210-103.000.
  Yamazaki, Sigeru; and Nakayama, Mitsuhito, 4,667,264, Cl. 361-77.000.

Ebara, Katsuya: *See—*
  Koseki, Yasuo; Yamada, Akira; Kurokawa, Hideki; Matsuzaki, Harumi; Ebara, Katsuya; and Takahashi, Sankichi, 4,638,646, Cl. 62-478.000.
  Koseki, Yasuo; Ebara, Katsuya; Takahashi, Sankichi; Matsuoka, Kazuhiko; Kuroiwa, Minoru; and Yamada, Akira, 4,670,137, Cl. 210-96.100.
  Matsuzaki, Harumi; Kubota, Masayoshi; Ebara, Katsuya; Takahashi, Sankichi; and Kuroiwa, Minoru, 4,698,153, Cl. 210-192.000.

Ebara, Masami: *See—*
  Arai, Takeshi; Ebara, Masami; and Ueyama, Hiroyuki, 4,658,293, Cl. 358-140.000.

Ebara Research Co., Ltd.: *See—*
  Mizobuchi, Shotaro; Kimura, Yoshikazu; and Sasaki, Katusmi, 4,699,525, Cl. 384-369.000.

Ebara Research Ltd.: *See—*
  Kataoka, Tadashi, 4,641,842, Cl. 277-83.000.

Ebara, Ryohei; and Sano, Shinichi, to Somar Corporation. Lightsafe masking film. 4,681,784, 7-21-87, Cl. 428-40.000

Ebara-Udylite Co., Ltd.: *See—*
  Combs, Daniel J.; Martin, Sylvia; Tremmel, Robert A.; Snell, Kenneth D.; Kamitani, Masaaki; Kimizuka, Ryoichi; and Koga, Takaaki, 4,699,696, Cl. 204-44.200.

Ebata, Makoto: *See—*
  Degawa, Toru; Okuyama, Gen; Hashimoto, Akio; Uchida, Seiju; Fujiwara, Kouzou; Ebata, Makoto; Satou, Takashi; and Ototani, Tohei, 4,710,481, Cl. 501-123.000.

Ebata, Sakae; and Ohshima, Nobuaki, to Hitachi, Ltd. Turbine pedestal. 4,682,754, 7-28-87, Cl. 248-639.000.

Ebata, Tokihide; and Onoda, Shigeyoshi, to Canon Kabushiki Kaisha. Feeding device. 4,653,743, 3-31-87, Cl. 271-124.000.

Ebata, Yasuo, to Kabushiki Kaisha Toshiba. Surface acoustic wave resonator. 4,635,009, 1-6-87, Cl. 333-195.000.

Ebata, Yasuo: *See—*
  Suzuki, Hitoshi; Ebata, Yasuo; Matsumura, Sadao; and Ushizawa, Jisaburo, 4,672,255, Cl. 310-313.00A.

Ebata, Yoshihiro; Hayami, Ryozo; Tamari, Nobuyuki; Toibana, Yasuo; and Kinoshita, Makoto, to Agency of Industrial Science and Technology. Non-oxide ceramics-metal composite material. 4,707,416, 11-17-87, Cl. 428-627.000.

Ebato, Kazuo; Osumi, Yasuaki; Tamura, Keiji; and Yoshida, Hiroshi, to Nihon Yakin Kogyo Kabushiki Kaisha. Hydrogen absorbing zirconium alloy. 4,661,415, 4-28-87, Cl. 428-570.000.

Ebato, Seigo: *See—*
  Iguchi, Keisuke; and Ebato, Seigo, 4,710,455, Cl. 430-567.000.

Ebaugh, Paul L.: *See—*
  Masters, Edwin J.; and Ebaugh, Paul L., 4,654,034, Cl. 604-192.000.
  Masters, Edwin J.; and Ebaugh, Paul L., 4,681,567, Cl. 604-198.000.

Ebaugh, Roger L.; and Rhodes, Jerry P., to Torrington Company, The. Multirow roller bearing with seals between the races. 4,692,040, 9-8-87, Cl. 384-484.000.

Ebbing, Steven J.; Hermans, Robert J.; Vicari, John J.; and Beneditz, Bruce D., to Sundstrand Corporation. Power drive unit and control system therefor. 4,635,441, 1-13-87, Cl. 60-450.000.

EBCO Industries Ltd.: *See—*
  Verrelli, Loreto, 4,715,489, Cl. 194-256.000.

Ebel, Klaus; Reuther, Wolfgang; Weiss, Wolfram; and Lelgemann, Ludwig, to BASF Aktiengesellschaft. Preparation of (2-hydroxyethyl)-melamines and their use as modifiers in the preparation of aminoplast resins. 4,668,785, 5-26-87, Cl. 544-196.000.

Ebel, Klaus; and Reuther, Wolfgang, to BASF Aktiengesellschaft. Aminoalkylmelamines. 4,670,558, 6-2-87, Cl. 544-196.000.

Ebel, Mark S., to Silicon Macrosystems Incorporated. High speed eprom cell and array. 4,663,740, 5-5-87, Cl. 365-185.000.

Ebeling, Donald C., to Lowery, Loyd; and Lowery, Joyce. Low power generator. 4,687,945, 8-18-87, Cl. 290-37.00R.

Ebeling, Franklin D.: *See—*
  Englehardt, Raymond R.; and Ebeling, Franklin D., 4,669,940, C 414-303.000.

Ebeling, Harold O.; and Honerkamp, Joseph D. Absorber for dehydra ing gas using desiccants. 4,661,130, 4-28-87, Cl. 55-234.000.

Ebeling, Joachim; Friedrich, Peter; Jekat, Herbert; Lugscheider, Wa ter; Riegler, Ernst; Zajicek, Ernst; Achleitner, Walter; and Jarem Ferdinand, to SKW Trostberg Aktiengesellschaft; and Yoest-Alpine Aktiengesellschaft. Process for the production of calcium carbide an a shaft furnace for carrying out the process. 4,644,557, 2-17-87, C 373-22.000.

Ebeling, Olavi, to Oy Kontekla; and Aeromator Trading Company AB Waste screen. 4,652,365, 3-24-87, Cl. 210-163.000.

Ebeling, Olavi; and Lunden, Risto, to Oy Kontekla. Draining arrang ment for roof. 4,683,685, 8-4-87, Cl. 52-12.000.

Ebeling, Wilfried: *See—*
  Schulte, Klaus; Nadolski, Klaus; Ersfeld, Heinrich; Ebeling, Wi fried; Boden, Heinrich; and Schneider, Walter, 4,695,166, C 366-160.000.

Ebeling, Wolfgang; and Kolditz, Helmut, to Turmag Turbo-Masch en-AG, Nuesse & Graefer; and Gesellschaft fuer Strahlen-und U weltsforschung Muenchen mbH (GSF). Drilling machine. 4,705,12 11-10-87, Cl. 175-99.000.

Ebenhack, Ben W.; and Floran, Robert J., to Union Oil Company California. Process for obtaining permeability logs using radioactiv drilling mud additives. 4,691,772, 9-8-87, Cl. 166-254.000.

Ebenhoch, Sebastian, to Waukesha Cutting Tools, Inc. Automa coolant inducer arrangement. 4,648,759, 3-10-87, Cl. 408-59.000.

Ebenhoech, Franz L.; and Schlegel, Reinhold, to BASF Aktiengesel schaft. Preparation of iron powder. 4,652,305, 3-24-87, Cl. 75-0.5BA

Eber, David H.: *See—*
  Lakowske, Rodney; Tischer, James C.; and Eber, David H. 4,662,819, Cl. 415-129.000.

Eberbach, Steven J. Dihedral loudspeakers with variable disper circuits. 4,691,362, 9-1-87, Cl. 381-99.000.

Eberdt, Jurgen; Fezer, Kurt; and Peters, Hans. Convertible parti wall. 4,662,128, 5-5-87, Cl. 52-71.000.

Eberhard, Guenther; and Krause, Joachim, to Siemens Aktiengesel schaft. Dynamic MOS circuit. 4,644,190, 2-17-87, Cl. 307-450.000.

Eberhard, Gunter; and Heitzig, Jurgen, to Continental Gummi-Wer Aktiengesellschaft. Hydraulically damped resilient mounti 4,650,169, 3-17-87, Cl. 267-140.100.

Eberhard, Gunter; and Heitzig, Jurgen, to Continental Gummi-Wer Aktiengesellschaft. Resilient mounting. 4,700,931, 10-20-87, C 267-35.000.

Eberhard, Jeffrey W.; and Cain, Dallas E., to General Electric Co pany. High resolution collimator system for X-ray detec 4,638,499, 1-20-87, Cl. 378-7.000.

Eberhard, Joachim: *See—*
  Schneider, Alfred; and Eberhard, Joachim, 4,706,813, C 206-387.000.

Eberhard, Martin F., to Wyse Technology, Inc. Four wire keybo interface. 4,706,068, 11-10-87, Cl. 340-365.00S.

Eberhard, Norbert: *See—*
  Hoppe, Hans; Heep, Dieter; Eberhard, Norbert; and Miller, We ner, 4,715,749, Cl. 406-14.000.

Eberhardt, George M.: *See—*
  Lang, Keven W.; Eberhardt, George M.; Entenmann, William and Shipman, Frank P., 4,645,674, Cl. 426-94.000.

Eberhardt, H. Alfred, to Hale Fire Pump Company. Fluid proportio ing apparatus. 4,633,895, 1-6-87, Cl. 137-98.000.

Eberhardt, H. Alfred, to Hale Fire Pump Company. Portable eng pump assembly. 4,643,652, 2-17-87, Cl. 417-364.000.

Eberhardt, H. Alfred; and Hoffman, Kenneth F., to Hale Fire Pu Company. Relief valve system. 4,653,978, 3-31-87, Cl. 415-39.000.

Eberhardt, H. Alfred, to Hale Fire Pump Company. Portable eng pump assembly. 4,676,065, 6-30-87, Cl. 60-310.000.

Eberhardt, H. Alfred, to Hale Fire Pump Company. Portable eng pump assembly. 4,690,613, 9-1-87, Cl. 415-148.000.

Eberhardt, H. Alfred; Broitman, Kalman; Evangelista, Richard Teske, Richard E.; and Sulmone, Michael, to Hale Fire Pump C pany. Gasoline engine EMI suppression system. 4,691,667, 9-8-87, 123-633.000.

Eberhardt, H. Alfred, to Hale Fire Pump Company. Fuel supply rotary piston engine. 4,712,516, 12-15-87, Cl. 123-1.00A.

Eberhardt, H. Alfred, to Hale Fire Pump Company. Flow system engine-pump assembly. 4,715,327, 12-29-87, Cl. 123-41.150.

Eberhardt, Horst: *See—*
  Peiffer, Herbert; and Eberhardt, Horst, 4,678,339, Cl. 366-76.0

Eberhardt, Mark E., Jr.; and Caldwell, Francis J., to Hobart Corp tion. Heat control for a dishwashing machine. 4,689,089, 8-25-87 134-18.000.

Eberhardt, Werner; and Ziegler, Rudolf, to Henkel Kommandit schaft auf Aktien. Stripping paste for removing lacquer and coatings. 4,692,263, 9-8-87, Cl. 252-122.000.

Eberhardt, Wolfgang U.: *See*—

Abeles, Benjamin; Eberhardt, Wolfgang U.; and Tiedje, J. Thomas, 4,684,565, Cl. 428-220.000.

Eberhart, Edward; and Ingram, Arlen E., to Ingram, Arlen E. Sanding tool. 4,694,618, 9-22-87, Cl. 51-392.000.

Eberhart, Laurence L.; and Holben, Larry B., to Peabody Noise Control, Inc. Sound rated floor system and method of constructing same 4,685,259, 8-11-87, Cl. 52-144.000.

Eberhart, Laurence L.: *See*—

Fearon, William W.; Eberhart, Laurence L.; Millspaugh, Rick G.; and Holben, Larry B., 4,699,836, Cl. 428-73.000.

Eberl, Karl, to Hoechst Aktiengesellschaft. Process for the preparation of an agglomerated molding powder composed of polytetrafluoroethylene and metallic fillers. 4,665,113, 5-12-87, Cl. 524-156.000.

Eberl, Karlheinz: *See*—

Hellweck, Walter; and Eberl, Karlheinz, 4,703,301, Cl. 337-367.000.

Eberl, Tertulin; and Weber-Unger, Georg, to Anita-Spezialmiederfabrik Dr. Helbig & Co. Mastoprosthesis. 4,681,587, 7-21-87, Cl. 623-7.000.

Eberle, Arthur C.; Thomson, David M.; and Sherman, John J., to Columbia Gas System Service Corp. Apparatus for measuring the work performed by a gas compressor. 4,676,095, 6-30-87, Cl. 73-112.000.

Eberle, Bernd: *See*—

Rutinger, Herbert; Gertitschke, Detlev H.; Rapp, Karlheinz; and Eberle, Bernd, 4,693,057, Cl. 53-539.000.

Eberle, Douglas J.: *See*—

Hill, Robert L.; and Eberle, Douglas J., 4,662,922, Cl. 65-2.000.

Eberle, Gunter. Centrifugal chamber with removable carrier plate. 4,688,513, 8-25-87, Cl. 118-52.000.

Eberle, Hans-Jurgen; Kreuzer, Franz-Heinrich; and Zeitler, Norbert, to Consortium fur Elektrochemische Industrie GmbH. Process for producing cycloalkadienes. 4,668,836, 5-26-87, Cl. 585-364.000.

Eberle, Heini; and Huber, Josef, to Getag AG. Apparatus for drying a moist material by air heated by a heat pump. 4,644,666, 2-24-87, Cl. 34-34.000.

Eberle, Ray, to Illinois Foundation Seeds, Inc. Particle counting device. 4,716,280, 12-29-87, Cl. 235-98.00C.

Eberle, Reinhard: *See*—

Heber, Helmut; Eberle, Reinhard; and Teetz, Volker, 4,665,016, Cl. 435-23.000.

Eberle, Rudolf; Essert, Wilfried; and Kull, Herbert, to Juwedor GmbH. Process for producing pieces of jewelry from precious metals and pieces of jewelry produced by it. 4,681,664, 7-21-87, Cl. 204-9.000.

Eberle, William J. Vacuum sensitive switch. 4,692,575, 9-8-87, Cl. 200-82.00C.

Eberlein, Wolfgang: *See*—

Trummlitz, Gunter; Engel, Wolfhard; Eberlein, Wolfgang; Mihm, Gerhard; and Giachetti, Antonio, 4,668,674, Cl. 514-220.000.

Eberly, Carlyle J., to Discovision Associates. Storage medium track pitch detector. 4,648,084, 3-3-87, Cl. 369-46.000.

Ebersole, George: *See*—

Denman, Owen S.; and Ebersole, George, 4,666,130, Cl. 256-13.100.

Ebersole, Richard C.; and Foss, Robert P., to Du Pont de Nemours, E. I. and Company. Porosity gradient electrophoresis gel. 4,704,198, 11-3-87, Cl. 204-182.800.

Eberspacher, Jorg: *See*—

von Schart, Frithjof; and Eberspacher, Jorg, 4,661,952, Cl. 370-94.000.

Eberspaecher, Joerg, to Siemens Aktiengesellschaft. Circuit arrangement for a communications system for the transmission of message information from narrowband and broadband terminal equipment within a local network constructed as a loop. 4,715,026, 12-22-87, Cl. 370-1.000.

Ebert, Charles; Delcroix, Jean L.; Majchrzak, Roland; and Viertel, Lothar, to Gebr. Happich GmbH. Bracket for sun visor for automotive vehicles with means for excluding molding foam. 4,702,513, 10-27-87, Cl. 296-97.00H.

Ebert, Charles; Krehl, Hermann; Viertel, Lothar; Hilbert, Bernard; and Walter, Rudiger, to Gebr. Happich GmbH. Mounting housing for sun visor for vehicles. 4,707,019, 11-17-87, Cl. 296-97.00K.

Ebert, Frederick; Silder, Stephen H.; and Beims, Michael A., to United Technologies Corporation. Preventing inadvertent downthrottling of the operative engine in a multi-engine aircraft. 4,655,414, 4-7-87, Cl. 244-75.00R.

Ebert, Klaus-Peter, to Kennecott Corporation. Jacket system for an enameled or glassed vessel. 4,651,894, 3-24-87, Cl. 220-469.000.

Ebert, Michael: *See*—

Finkelstein, Abraham E., 4,657,763, Cl. 424-131.000.

Miller, William, 4,648,406, Cl. 128-674.000.

Ebert, Philip C.; and Holliday, Lawrence E., to Boeing Company, The. Gyro simulator. 4,646,255, 2-24-87, Cl. 364-578.000.

Ebertz, Wolfgang: *See*—

Driscoll, Robert K.; Leupold, Ernst L.; and Ebertz, Wolfgang, 4,692,547, Cl. 560-186.000.

Ebi, Yutaka: *See*—

Izumi, Kouji; Horike, Masanori; Furukawa, Tatsuya; Komai, Hiromichi; Naruse, Osamu; and Ebi, Yutaka, 4,677,845, Cl. 73-56.000.

Ebigt, Joachim: *See*—

Fock, Kurt; Hermann, Hans D.; Fabian, Klaus; and Ebigt, Joachim, 4,663,235, Cl. 428-437.000.

Ebihara, Ben T.; and Forman, Ralph, to United States of America, National Aeronautics and Space Administration. Apparatus for mounting a field emission cathode. 4,687,964, 8-18-87, Cl. 313-237.000.

Ebihara, Hiroshi: *See*—

Shimamiya, Yukio; Narumo, Kinzo; and Ebihara, Hiroshi, 4,639,066, Cl. 339-132.00B.

Ebihara, Norio: *See*—

Nakamura, Yoshiyuki; Kato, Tetsuro; and Ebihara, Norio, 4,641,202, Cl. 358-313.000.

Ebihara, Toshio: *See*—

Tsukamoto, Teisuke; Morohoshi, Shinichi; Iida, Tetsuo; Kishizawa, Yuji; Kato, Shoichi; Suzuki, Toshio; and Ebihara, Toshio, 4,698,975, Cl. 60-721.000.

Ebihara, Yoshiyuki, to Etona Company, Limited. Staple cassette. 4,687,098, 8-18-87, Cl. 206-340.000.

Ebihara, Yoshiyuki, to Etona Company, Limited. Stapler. 4,706,865, 11-17-87, Cl. 227-110.000.

Ebihara, Yoshiyuki, to Etona Company, Limited. Stapler. 4,706,866, 11-17-87, Cl. 227-120.000.

Ebihara, Yuko: *See*—

Ohno, Sachio; Ebihara, Yuko; Mizukoshi, Kiyoshi; Ichihara, Kenji; Ban, Takao; and Nagasaka, Mitsuaki, 4,713,457, Cl. 546-67.000.

Ebina, Kiyoshi; Nakao, Kazuhira; and Tani, Zempei, to Sharp Kabushiki Kaisha. Optical rotary encoder. 4,654,525, 3-31-87, Cl. 250-231.0SE.

Ebina, Masaki, to NEC Corporation. Complementary MOS integrated circuit having means for preventing latch-up phenomenon. 4,660,067, 4-21-87, Cl. 357-42.000.

Ebinger, Gunther: *See*—

Abthoff, Joerg; Schuster, Hans D.; Langer, Hans J.; Zahn, Wolfgang; and Ebinger, Gunther, 4,691,562, Cl. 73-118.100.

Ebino, Hiroshi: *See*—

Okimoto, Haruo; Mithui, Syuzi; and Ebino, Hiroshi, 4,641,619, Cl. 123-479.000.

Ebinuma, Ryuichi; Hattori, Yoshifumi; and Ichihashi, Hiroo, to Canon Kabushiki Kaisha. Ink jet recorder with improved system for transporting ink to or from recording heads. 4,680,696, 7-14-87, Cl. 346-75.000.

Ebinuma, Ryuichi: *See*—

Ichihashi, Hiroo; Ozawa, Masakazu; Ebinuma, Ryuichi; and Saito, Atsushi, 4,695,855, Cl. 346-145.000.

Ichihashi, Hiroo; Ozawa, Masakazu; Saito, Atsushi; and Ebinuma, Ryuichi, 4,704,620, Cl. 346-140.00R.

Ozawa, Masakazu; Ozawa, Kunitaka; Hatanaka, Katsunori; Suzuki, Tetsuo; Mori, Tetsuzo; Shiina, Tadashi; and Ebinuma, Ryuichi, 4,651,173, Cl. 346-136.000.

Ebisaka, Toshinobu, to Mitsubishi Denki Kabushiki Kaisha. Generator protecting relay. 4,635,157, 1-6-87, Cl. 361-20.000.

Ebisawa, Isao: *See*—

Hirosawa, Toshiaki; Akiyama, Yoshie; Ebisawa, Isao; Hattori, Yoshifumi; and Abe, Tsutomu, 4,684,962, Cl. 346-140.00R.

Ebisawa, Makoto; Shindo, Shuko; Hashizume, Kenichi; and Isa, Isao, to Japan Carlit Co., Ltd., The. Charge transfer complex. 4,688,153, 8-18-87, Cl. 361-433.000.

Ebisu, Katsuji: *See*—

Sawatari, Norio; Yamagishi, Yasuo; Ebisu, Katsuji; Katagiri, Yoshimichi; and Narusawa, Toshiaki, 4,699,863, Cl. 430-97.000.

Ebisu, Satoshi: *See*—

Ueno, Katsuji; Nagaoka, Kenji; Miyashita, Akira; and Ebisu, Satoshi, 4,639,344, Cl. 264-83.000.

Ebisumoto, Takashige: *See*—

Nagamatsu, Hiroaki; and Ebisumoto, Takashige, 4,665,775, Cl. 74-868.000.

Ebizawa, Akio: *See*—

Nishio, Hisaharu; Taguchi, Kazuo; Okumura, Toshio; and Ebizawa, Akio, 4,668,477, Cl. 422-98.000.

Eblen, Ewald; Hofmann, Karl; Holzgrefe, Volker; Pigeroulet, Jean; Rodriguez-Amaya, Nestor; Simon, Nikolaus; Trachte, Dietrich; Weiss, Friedrich; and Ziegler, Ewald, to Robert Bosch GmbH. Electrically controlled fuel injection pump for internal combustion engines. 4,653,455, 3-31-87, Cl. 123-506.000.

ebm Elektrobau Mufingen GmbH & Co.: *See*—

Best, Dieter, 4,707,627, Cl. 310-71.000.

ebm Elektrobau Mulfingen GmbH & Co.: *See*—

Reinhardt, Wilhelm; and Lipp, Helmut, 4,694,371, Cl. 361-23.000.

Sturm, Gerhard, 4,634,908, Cl. 310-64.000.

Ebmeyer, Wilfried; and Krutemeier, Werner, to Windmoller & Holscher. Apparatus for aligning a wicketer stacking station with an edge of a web. 4,666,422, 5-19-87, Cl. 493-12.000.

Ebner, Arno: *See*—

Ettischer, Helmut; Ebner, Arno; Munz, Rolf; and Pollak, Raimund, 4,696,615, Cl. 414-114.000.

Ebner, Edwin D.: *See*—

Colodner, Jesse L.; and Ebner, Edwin D., 4,669,548, Cl. 169-12.000.

Ebner, Emanual C., Jr.: *See*—

Ebner, Peter R.; Ebner, Emanual C., Jr.; Shaw, John H.; Miller, John G.; and Gorelick, Donald E., 4,691,987, Cl. 350-96.230.

Ebner, Heinrich: *See*—

Follmann, Heinrich; and Ebner, Heinrich, 4,689,153, Cl. 210-650.000.

Ebner, Heinz: *See*—

Wessel, Gerhard; and Ebner, Heinz, 4,658,271, Cl. 346-107.00R.

Ebner, Howard A., to Resinoid Engineering Corporation. Commutator and method of making same. 4,638,202, 1-20-87, Cl. 310-235.000.

Ebner, Peter R.; Ebner, Emanual C., Jr.; Shaw, John H.; Miller, John G.; and Gorelick, Donald E., to Itek Graphix Corp. Optical fiber cable producer and method of bonding optical fibers to light emitting diodes. 4,691,987, 9-8-87, Cl. 350-96.230.

Ebnesajjad, Sina; and Jones, Eugene G., to Du Pont de Nemours, E. I., and Company. Cospinning process. 4,668,453, 5-26-87, Cl. 264-78.000.

Ebneth, Harold: *See—*
von Bonin, Wulf; Sattlegger, Hans; and Ebneth, Harold, 4,694,030, Cl. 523-179.000.

Ebra, Martha A.: *See—*
Walker, Darrel D.; and Ebra, Martha A., 4,654,173, Cl. 252-631.000.

Ebrahim, Sajjad; and Hexamer, Donald K., to Par-Pak Limited. Cover for baked goods. 4,684,024, 8-4-87, Cl. 206-464.000.

Ebrahimian, Ebrahim. Combined bending and cutting machine for metal plate. 4,646,420, 3-3-87, Cl. 29-560.000.

Ebrahimzadeh, Mozaffar. Windshield curtain. 4,647,102, 3-3-87, Cl. 296-97.00D.

Ebregt, Johan L.; and Maatman, Hendrik, to Akzo N.V. Variable-aperture process for the manufacture of filaments from aromatic polyamides. 4,702,876, 10-27-87, Cl. 264-184.000.

Eby, David H.: *See—*
Shank, Gordon W.; Bristol, Lloyd R.; Eby, David H.; and Klerk, Jeffrey A., 4,644,337, Cl. 340-709.000.

Eby, Lawrence T.: *See—*
Struss, Arthur W.; Williams, Terrance L.; and Eby, Lawrence T., 4,686,253, Cl. 524-44.000.

Eby, Michael D., to NCR Corporation. CMOS memory margining control circuit for a nonvolatile memory. 4,658,380, 4-14-87, Cl. 365-201.000.

EC Erdolchemie GmbH: *See—*
Herwig, Jens; Norenberg, Hagen; Bergmann, Friedhelm; Stiller, Manfred; Schlemmermeyer, Horst; Schmidt, Wilfried; Straube, Hilmar; and Wolter, Helmut, 4,712,434, Cl. 73-864.630.
Ruch, Siegfried; Hagen, Karl-Heinz; and Hambrock, Klaus-Peter, 4,655,798, Cl. 55-64.000.

Ecabert, Jacques: *See—*
Aillet, Guy; and Ecabert, Jacques, 4,659,468, Cl. 210-352.000.

ECB Technologies, Inc.: *See—*
Kuzyk, Roman; Bender, Richard H.; and Edwards, Lew, 4,690,546, Cl. 355-69.000.

ECC International Limited: *See—*
Goodman, Howard, 4,683,259, Cl. 524-447.000.

Eccardt, Curtis J., to Emerson Electric Co. Adjustable side extensions for work table. 4,677,920, 7-7-87, Cl. 108-69.000.

Eccel, Rosanna: *See—*
Bernardi, Luigi; Temperilli, Aldemio; Bosisio, Germano; Traquandi, Gabriella; Eccel, Rosanna; Rossi, Alessandro; and Salvati, Patricia, 4,675,404, Cl. 544-238.000.

Eccles, Edward S.: *See—*
Saunders, Arthur F.; and Eccles, Edward S., 4,716,531, Cl. 364-431.020.

Eccles, Harry; and Fell, Stephen A., to British Nuclear Fuels plc. Production of uranium tetrafluoride. 4,693,795, 9-15-87, Cl. 204-94.000.

Eccles, Richard M.: *See—*
Li, Allen S.; Eccles, Richard M.; and Ruef, Lloyd M., 4,673,552, Cl. 422-140.000.
Li, Allen S.; and Eccles, Richard M., 4,702,891, Cl. 422-140.000.

Eccles, Robert E.: *See—*
Vasseghi, Nader; Goddard, Donald G.; and Eccles, Robert E., 4,678,940, Cl. 307-446.000.

Eccles, Timothy C.: *See—*
Gawlik, Robert F.; and Eccles, Timothy C., 4,643,511, Cl. 339-231.000.

Eccleston, Larry; Cook, James C., II; and Goodrich, Earl R., II, to Progressive Dynamics, Inc. Method and apparatus for producing electromagnetic surveillance fields. 4,634,975, 1-6-87, Cl. 324-232.000.

Eccleston, Larry; Goodrich, Earl R., II; and Swasdee, Manot, to Progressive Dynamics, Inc. Signal analysis apparatus including recursive filter for electromagnetic surveillance system. 4,668,942, 5-26-87, Cl. 340-551.000.

Eccleston, Larry E.; and Emery, John C., to John Fluke Mfg. Co., Inc. Linearity control circuit for digital to analog converter. 4,716,398, 12-29-87, Cl. 340-347.0DA.

Ecer, Gunes. Method for preparing fully dense, near-net-shaped objects by powder metallurgy. 4,673,549, 6-16-87, Cl. 419-10.000.

Ecer, Gunes M., to CDP, Ltd. Pump liners and a method of cladding the same. 4,715,313, 12-29-87, Cl. 118-105.000.

Ecer, Gunes M.: *See—*
Oslin, Brian; and Ecer, Gunes M., 4,667,497, Cl. 72-62.000.

Echavarrio, Fernando C. Zigzag and transport device for sewing machines. 4,641,593, 2-10-87, Cl. 112-443.000.

Echazabal, Julio, Jr. Disposable dispensing container. 4,650,100, 3-17-87, Cl. 222-475.000.

Echigo, Yoshiaki; Yamao, Mutsunori; Suematu, Yoshiyuki; Ishikura, Tadashi; Asami, Keiichi; and Shidei, Ritsuko, to Unitika Ltd. Microspherical particles of resole resins and process for producing the same. 4,640,971, 2-3-87, Cl. 528-129.000.

Echizen, Susumu: *See—*
Iijima, Takeo; Nomura, Hiroshi; Saito, Susumu; and Echizen, Susumu, 4,690,619, Cl. 417-269.000.
Iijima, Takeo; Nomura, Hiroshi; Saito, Susumu; and Echizen, Susumu, 4,715,790, Cl. 417-269.000.
Nomura, Hiroshi; Shitara, Mototaka; Echizen, Susumu; and Saito, Susumu, 4,704,073, Cl. 417-269.000.

Echizen, Tetsuro: *See—*
Hammura, Hisao; Echizen, Tetsuro; and Sanada, Yoshio, 4,707,691 Cl. 340-754.000.

Echlin, Inc.: *See—*
Shaff, Gerald, 4,682,470, Cl. 60-299.000.

Echodata Corporation: *See—*
Echols, James R., 4,653,947, Cl. 400-202.400.

Echolac Co., Ltd.: *See—*
Chao, Ting-Tsung, 4,638,649, Cl. 70-71.000.

Echols, James R., to Echodata Corporation. Reinking device for ribbon cartridge. 4,653,947, 3-31-87, Cl. 400-202.400.

Echols, John C.: *See—*
Burgess, James P.; Echols, John C.; and Walker, Thomas A., 4,636,775, Cl. 340-566.000.

Echols, John D.; and Wilson, Robert M., to Westinghouse Electric Corp. One-piece removable tube lane blocking device for nuclear steam generator. 4,664,178, 5-12-87, Cl. 165-72.000.

Echols, Ronald. Safety stopper engager. 4,704,924, 11-10-87, Cl. 81-3.400.

Echte, Adolf: *See—*
Berger, Rosemarie; Dreher, Hermann; Hambrecht, Juergen; Hei Eduard; Reffert, Rudi W.; Swoboda, Johann; Echte, Adolf; and Siebel, Peter, 4,654,418, Cl. 528-486.000.
Brandt, Hermann; Fischer, Hermann; Dreher, Hermann; Hei Eduard; Hambrecht, Juergen; Naarmann, Herbert; Echte, Adolf; Gausepohl, Hermann; Siebel, Peter; Swoboda, Johann; Schwaebel, Gerd; and Nikles, Albert, 4,696,996, Cl. 528-214.000.

Echterling, Garry K.: *See—*
Herweh, John E.; Echterling, Garry K.; and Setthachayanon, Songvit, 4,672,098, Cl. 526-268.000.

Echternach, Gerald G.: *See—*
Karas, Richard J.; and Echternach, Gerald G., 4,646,930, C 220-70.000.

ECI Building Components, Inc.: *See—*
Vondergoltz, G. Earl; and Hammack, Milton E., 4,694,628, C 52-528.000.

Eck, Herbert; Menzel, Hartmut; Jira, Reinhard; and Prasse, Alfred, t Wacker-Chemie GmbH. Silicon compounds containing SiC-bonded biuret groups and a method for preparing the same. 4,650, 3-17-87, Cl. 525-440.000.

Eck, Herbert; and Roth, Michael, to Wacker-Chemie GmbH. Aqueous redispersible powders which contain a water-soluble polymer and a least one organic silicon compound and a process for preparing the same. 4,704,416, 11-3-87, Cl. 524-17.000.

Eck, Jeffrey A.: *See—*
Cahill, Richard F.; Eck, Jeffrey A.; Schwantz, Gerald L.; Theriault, John P.; Turek, Philip A.; Udd, Eric; Wagoner, Raymond E.; and Wanser, Keith H., 4,712,306, Cl. 33-304.000.

Eck, Paul L., to Abbott Laboratories. Combined washer and aspirator. 4,685,480, 8-11-87, Cl. 134-182.000.

Eckardt, Bernd: *See—*
Queiser, Horst; and Eckardt, Bernd, 4,671,925, Cl. 376-310.000.

Eckardt, Dieter; and Hettich, Gerhard, to Robert Bosch GmbH. Magnetoresistive sensor for detecting position or speed of a ferromagnetic body. 4,712,064, 12-8-87, Cl. 324-208.000.

Eckardt, Fred H., to EMCO Filtration Systems, Inc. Gravity liquid filtration apparatus with rotatable discs that mount swinging discharge elements therebetween. 4,686,042, 8-11-87, Cl. 210-386.000.

Eckardt, Hartmann: *See—*
Nussbaumer, Manfred; Glaser, Eberhard; Beitinger, Eberhard; and Eckardt, Hartmann, 4,697,953, Cl. 405-128.000.

Eckardt, Rudolf: *See—*
Bechtold, Dieter; and Eckardt, Rudolf, 4,666,800, Cl. 429-175.000.

Eckart, George R., to Woodhead Industries, Inc. Rotatable electrical elbow fitting. 4,708,663, 11-24-87, Cl. 439-469.000.

Eckberg, Richard P., to General Electric Company. Ultraviolet radiation-curable silicone release compositions with epoxy and/or acrylic functionality. 4,640,967, 2-3-87, Cl. 528-26.000.

Eckberg, Richard P., to General Electric Company. Novel acrylated polymers. 4,663,185, 5-5-87, Cl. 427-54.100.

Eckberg, Richard P., to General Electric Company. Inhibited precious metal catalyzed organopolysiloxane compositions. 4,670,531, 6-2-87, Cl. 528-15.000.

Eckberg, Richard P.; Striker, Richard A.; and Modic, Frank J., General Electric Company. Ultraviolet radiation-curable silicone release compositions. 4,684,670, 8-4-87, Cl. 522-13.000.

Eckbreth, Alan C., to United Technologies Corporation. Optical spectrometer for dynamic range enhancement of optical multichannel detectors. 4,660,932, 4-28-87, Cl. 350-171.000.

Eckbreth, Alan C.; and Stufflebeam, John H., to United Technologies Corporation. Variable focal length optical system having a constant diameter focal spot. 4,705,367, 11-10-87, Cl. 350-572.000.

Ecke, Hermann, to Mecron Medizinische Produkte GmbH. Shaft collarless hip joint prosthesis. 4,657,551, 4-14-87, Cl. 623-23.000.

Eckel, Merowech: *See—*
Bukoschek, Romuald L.; Eckel, Merowech; and Schroder, Joh 4,712,386, Cl. 62-342.000.

Eckel, Robert: *See—*
Larue, Roderick W.; Aebersold, Werner; and Eckel, Ro 4,701,664, Cl. 313-112.000.

Eckelman, William C.: *See—*
Paik, Chang H.; Reba, Richard C.; and Eckelman, William 4,652,440, Cl. 424-1.100.
Rzeszotarski, Waclaw J.; Gibson, Raymond E.; Eckelman, Wi C.; and Reba, Richard C., 4,644,003, Cl. 514-304.000.

Eckels, Stanley: *See—*
  Triporo, Pedro R.; and Eckels, Stanley, 4,634,365, Cl. 425-398.000.
Eckenhoff, James B., to Alza Corporation. Means for providing instant agent from agent dispensing system. 4,643,731, 2-17-87, Cl. 604-892.000.
Eckenhoff, James B.; Theeuwes, Felix; and Deters, Joseph C., to ALZA Corporation. Dispenser comprising telescopically engaging members. 4,663,148, 5-5-87, Cl. 424-454.000.
Eckenhoff, James B.; Theeuwes, Felix; and Deters, Joseph C., to Alza Corporation. Dispenser comprising inner and outer walls functioning as cooperative unit. 4,663,149, 5-5-87, Cl. 424-452.000.
Eckenhoff, James B., to Alza Corporation. Veterinary dispenser delivering beneficial agent by gas power generated in situ. 4,675,174, 6-23-87, Cl. 424-15.000.
Eckenhoff, James B.; Theeuwes, Felix; and Deters, Joseph C., to ALZA Corporation. Dispenser comprising capsule with volume displacing member. 4,678,467, 7-7-87, Cl. 604-892.000.
Eckenhoff, James B.; Cortese, Richard; and Landrau, Felix A., to ALZA Corporation. Rate controlled dispenser for administering beneficial agent. 4,684,524, 8-4-87, Cl. 424-469.000.
Eckenhoff, James B.; Theeuwes, Felix; and Deters, Joseph C., to ALZA Corporation. Dispenser comprising inner positioned soft or hard capsule. 4,692,326, 9-8-87, Cl. 424-413.000.
Eckenhoff, James B.; Cortese, Richard; and Landrau, Felix A., to ALZA Corporation. Self controlled release device for administering beneficial agent to recipient. 4,692,336, 9-8-87, Cl. 424-468.000.
Eckenhoff, James B., to ALZA Corporation. Ruminant dispensing device with thermo-activated memory. 4,704,118, 11-3-87, Cl. 604-892.000.
Eckenhoff, James B.; Theeuwes, Felix; and Deters, Joseph C., to ALZA Corporation. Drug dispenser comprising a multiplicity of members acting together for successfully dispensing drug. 4,716,031, 12-29-87, Cl. 424-453.000.
Eckenhoff, James B.: *See—*
  Campbell, Patricia S.; and Eckenhoff, James B., 4,704,282, Cl. 424-449.000.
  Theeuwes, Felix; and Eckenhoff, James B., 4,655,766, Cl. 604-896.000.
Ecker, Ernest L.: *See—*
  Christy, Mark R.; and Ecker, Ernest L., 4,714,729, Cl. 524-281.000.
Ecker, Howard J.: *See—*
  Ecker, Warren S.; Ecker, Howard J.; Ecker, Robert S.; and Sterner, Maurice E., Jr., 4,694,552, Cl. 29-418.000.
Ecker, Karl-Heinz; and Henschenmacher, Helmut, to Wirth Maschinen- und Bohrgerate-Fabrik GmbH. Manipulator for cover closure members. 4,655,362, 4-7-87, Cl. 220-260.000.
Ecker Mfg. Corp.: *See—*
  Ecker, Warren S.; Ecker, Howard J.; Ecker, Robert S.; and Sterner, Maurice E., Jr., 4,694,552, Cl. 29-418.000.
Ecker, Robert S.: *See—*
  Ecker, Warren S.; Ecker, Howard J.; Ecker, Robert S.; and Sterner, Maurice E., Jr., 4,694,552, Cl. 29-418.000.
Ecker, Warren S.; Ecker, Howard J.; Ecker, Robert S.; and Sterner, Maurice E., Jr., to Ecker Mfg. Corp.; and Product Design & Development, Inc. Method for fabricating a compound portal frame extrusion profile. 4,694,552, 9-22-87, Cl. 29-418.000.
Eckerrot, Hans; Eriksson, Knut; and Rothman, Bengt, to ASEA Aktiebolag. Synchronous machine with coil halves. 4,658,169, 4-14-87, Cl. 310-208.000.
Eckersley, John S., to Jonas Woodhead Limited. Telescopic hydraulic shock absorbers. 4,650,043, 3-17-87, Cl. 188-322.140.
Eckert, Alton B., to Pitney Bowes Inc. Method and apparatus for verifying postage. 4,649,266, 3-10-87, Cl. 235-432.000.
Eckert, Alton B.: *See—*
  Check, Frank T., Jr.; Eckert, Alton B.; and Warren, Joseph R., 4,675,841, Cl. 364-900.000.
  Clark, John I.; Eckert, Alton B.; and Warren, David M., 4,641,346, Cl. 380-3.000.
  Jones, Howell A.; Soderberg, John H.; Eckert, Alton B.; and Nambudiri, Easwaran C. N., 4,635,204, Cl. 364-464.000.
Eckert, Alton B., Jr.; Kirschner, Wallace; and Salazar, Edilberto L., to Pitney Bowes Inc. Microprocessor controlled d.c. motor for indexing postage value changing means. 4,635,205, 1-6-87, Cl. 364-464.000.
Eckert, Bruce M. Tractor dual wheel remover. 4,709,474, 12-1-87, Cl. 29-802.000.
Eckert, Charles E., to Aluminum Company of America. Fluid flow control process. 4,634,559, 1-6-87, Cl. 261-76.000.
Eckert, Charles E., to Aluminum Company of America. Aspirator pump and metering device. 4,634,560, 1-6-87, Cl. 261-76.000.
Eckert, Charles E., to Aluminum Company of America. Apparatus and method for ultrasonic detection of inclusions in a molten body. 4,662,215, 5-5-87, Cl. 73-61.00R.
Eckert, Charles E.; and Miller, Ronald E., to Aluminum Company of America. Alloying system. 4,688,771, 8-25-87, Cl. 266-78.000.
Eckert, Charles E.; and Miller, Ronald E., to Aluminum Company of America. Process for adding material to molten media. 4,689,199, 8-25-87, Cl. 420-590.000.
Eckert, Charles E., to Aluminum Company of America. Trough shear diffusor apparatus for fluxing molten metal and method. 4,714,494, 12-22-87, Cl. 75-66.000.
Eckert, Donald C.; George, J. Richard; Lilley, George L.; Sensenig, Darryl L.; and Tshudy, James A., to Armstrong World Industries, Inc. Loose-lay and adhered surface coverings. 4,654,244, 3-31-87, Cl. 428-47.000.
Eckert, Guenter: *See—*
  Bay, Herbert; Widder, Rudi; and Eckert, Guenter, 4,701,269, Cl. 252-8.570.
Eckert, John A., to Exxon Research & Engineering Co. Anti-mist liquid degradation. 4,647,291, 3-3-87, Cl. 44-62.000.
Eckert, Karlheinz: *See—*
  Beyer, Hans-Hermann; Diehl, Walter; Eckert, Karlheinz; Eiermann, Kurt; and Ringelstein, Hans-Martin, 4,634,383, Cl. 433-226.000.
Eckert, Konrad; Eisele, Hermann; Laufer, Helmut; and Straubel, Max, to Robert Bosch GmbH. Fuel injection apparatus for internal combustion engines. 4,655,184, 4-7-87, Cl. 123-458.000.
Eckert, Konrad, to Robert Bosch GmbH. Apparatus for controlling vehicle spring firmness. 4,655,440, 4-7-87, Cl. 267-64.110.
Eckert, Robert L.; and Gorrell, Walter T. Bobbin and method of winding said bobbin. 4,634,076, 1-6-87, Cl. 242-118.700.
Eckert, Rudolf J. A.: *See—*
  Bleeker, Jan J.; Lammers, Jan H.; Roest, Jacob B.; and Eckert, Rudolf J. A., 4,670,550, Cl. 536-114.000.
Eckhardt, David A.: *See—*
  Lahoda, Edward J.; and Eckhardt, David A., 4,676,201, Cl. 122-392.000.
Eckhardt, Dennis C., to General Motors Corporation. Check valve in auxiliary vacuum system. 4,711,224, 12-8-87, Cl. 123-572.000.
Eckhardt, Heinz: *See—*
  Buschmann, Ernst; Himmele, Walter; Eckhardt, Heinz; Ernst, Hansgeorg; Rademacher, Wilhelm; and Jung, Johann, 4,705,553, Cl. 71-76.000.
  Ernst, Hansgeorg; Eckhardt, Heinz; and Paust, Joachim, 4,656,275, Cl. 544-251.000.
Eckhardt, Helmut: *See—*
  Baughman, Ray H.; Elsenbaumer, Ronald L.; Iqbal, Zafar; Miller, Granville G.; and Eckhardt, Helmut, 4,646,066, Cl. 340-540.000.
Eckhardt, Volker; Dicke, Hans-Rudolf; Paetz, Klaus-Christian; and El Sayed, Aziz, to Bayer Aktiengesellschaft. Thermotropic aromatic polyesters having high mechanical properties and good processability, a process for their preparation, and their use for the production of mouldings, filaments, fibres and films. 4,667,011, 5-19-87, Cl. 528-128.000.
Eckhardt, Volker: *See—*
  Wagner, Rudolf; Halcour, Kurt; Dicke, Hans-Rudolf; and Eckhardt, Volker, 4,716,252, Cl. 568-729.000.
Eckhardt, Wolfgang: *See—*
  Franz, Hans-Joachim; Hommola, Jurgen; Langensiepen, Bernd; and Eckhardt, Wolfgang, 4,665,653, Cl. 49-477.000.
  Hubele, Adolf; Zondler, Helmut; Riebli, Peter; and Eckhardt, Wolfgang, 4,659,363, Cl. 71-92.000.
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  Hubele, Adolf; and Eckhardt, Wolfgang, 4,705,790, Cl. 514-269.000.
  Kunz, Walter; and Eckhardt, Wolfgang, 4,663,463, Cl. 548-262.000.
Eckhart, Charles G.: *See—*
  Jenkins, John K.; Chiu, John S.; Eckhart, Charles G.; McNamara, Paul E.; Rosenhouse, Stanley; and Youngstrom, Richard E., 4,634,556, Cl. 540-310.000.
Eckhart, Horst: *See—*
  Holderle, Hans; Wolf, Jurgen; Eckhart, Horst; and Vonderau, Werner, 4,711,225, Cl. 123-590.000.
Eckhaus, Ira. Electrical wire connectors for wire of varied sizes. 4,695,113, 9-22-87, Cl. 439-404.000.
Eckhoff, Steven R.; Oard, Darrell; Davis, Arthur B.; and Behnke, Kieth C., to Kansas State University Research Foundation. Apparatus for measuring grain hardness. 4,703,647, 11-3-87, Cl. 73-81.000.
Eckle, Otto; and Roser, Walter, to Komet Stahlhalter- und Werkzeugfabrik Robert Breuning GmbH. Tool holder with radial adjustment means for a tool, in particular a rotary tool. 4,634,324, 1-6-87, Cl. 409-209.000.
Eckle, Otto, to Komet Stahlhalter- und Werkzeugfabrik Robert Breuning GmbH. Machine tool spindle and tool holders suitable for use therewith. 4,678,382, 7-7-87, Cl. 409-232.000.
Eckle, Otto, to Komet Stahlhalter- und Werkzeugfabrik Robert Breuning GmbH. Machine tool spindle and tool holder. 4,684,301, 8-4-87, Cl. 409-232.000.
Eckle, Otto; and Roser, Walter, to Komet Stahlhalter und Werkzeugfabrik Robert Breuning GmbH. Boring tool. 4,714,390, 12-22-87, Cl. 409-234.000.
Eckler, Paul E., to International Minerals & Chemical Corp. Waste liquor disposal methods. 4,676,912, 6-30-87, Cl. 210-708.000.
Eckler, Paul E., to International Minerals & Chemical Corporation. Pentaerythritol slurries. 4,689,173, 8-25-87, Cl. 252-308.000.
Eckler, Paul E., to International Minerals & Chemical Corp. Air drying protective coatings. 4,689,266, 8-25-87, Cl. 428-334.000.
Eckler, Paul E., to International Minerals & Chemical Corp. Crystallization-inhibited trimethylolethane solutions. 4,709,104, 11-24-87, Cl. 568-853.000.
Ecklund, Lawrence M., to Motorola, Inc. Correction control circuit for AM stereophonic receivers. 4,679,237, 7-7-87, Cl. 381-15.000.
Ecklund, Lawrence M., to Motorola, Inc. Dual purpose variable Q filter. 4,680,795, 7-14-87, Cl. 381-15.000.
Ecklund, Lawrence M., to Motorola, Inc. Controlled blend for AM stereo receivers. 4,688,254, 8-18-87, Cl. 381-15.000.
Ecklund, Lawrence M., to Motorola, Inc. Adaptive phase locked loop having a variable locking rate. 4,691,175, 9-1-87, Cl. 331-1.00A.
Ecklund, Lawrence M., to Motorola, Inc. Broadcast signal detected indication system. 4,712,241, 12-8-87, Cl. 381-15.000.

- Ecklund, Richard C.: *See—*
  - Yasui, Ken K.; Williams, Neil R.; Ecklund, Richard C.; Hayase, Masashi; and Walkington, Robert J., 4,708,008, Cl. 72-60.000.
- Eckman, Harold J., to Cadet Manufacturing Company. Housing for wall mounted heating unit. 4,714,194, 12-22-87, Cl. 237-70.000.
- Eckman, James D.: *See—*
  - Durston, Thomas W.; Fleitz, George D.; Coffelt, Steven R.; Eckman, James D.; Wong, Wayne K.; and Chavannes, Theodore E., 4,707,848, Cl. 379-1.000.
- Eckman, Richard E., to Dresser Industries, Inc. Power drill and automatic control system therefore. 4,688,970, 8-25-87, Cl. 408-9.000.
- Eckman, Richard E.: *See—*
  - Golwas, Robert F.; Pennison, Robert A., and Eckman, Richard E., 4,702,650, Cl. 408-6.000.
  - Pennison, Robert A.; and Eckman, Richard E., 4,681,490, Cl. 408-10.000.
- Eckold, Gerd-Jurgen; and Maass, Hans. Sheet metal joining apparatus. 4,658,502, 4-21-87, Cl. 29-798.000.
- Eckstein, Gershon, to Drip Irrigation Systems, Ltd. Pressure compensating drip irrigation emitter. 4,653,695, 3-31-87, Cl. 239-542.000.
- Eckstein, Gunter K., to Shell Oil Company. Process for separating fly-ash. 4,701,185, 10-20-87, Cl. 48-197.00R.
- Eckstein, John P.: *See—*
  - Schaefer, Suzanne E.; and Eckstein, John P., 4,685,591, Cl. 222-107.000.
- Eckstein, Karlheinz, to Grundig E.M.V. Elektro-Mecnanische Versuchsanstalt Max Grundig Helland, Stiftung & Co. KG. Method for making magnetic heads. 4,704,788, 11-10-87, Cl. 29-603.000.
- Eckstein, Udo: *See—*
  - Telle, Helmut; Schieder, Rudolf; Raue, Roderich; and Eckstein, Udo, 4,670,882, Cl. 372-53.000.
- Eckstein, Wolfgang: *See—*
  - Kolbe, Ernst-Gunter; Weinmann, Hasso; Drews, Wolfgang; and Eckstein, Wolfgang, 4,665,910, Cl. 128-202.260.
- Eckstrom, Delano, to Red Wing Shoe Company, Inc. Welting for a shoe. 4,651,443, 3-24-87, Cl. 36-17.00R.
- Eckwert, Klemens; Jeromin, Lutz; Meffert, Alfred; Peukert, Eberhard; and Gutsche, Bernhard, to Henkel Kommanditgesellschaft auf Aktien. Process for the epoxidation of olefinically unsaturated hydrocarbon compounds with peracetic acid. 4,647,678, 3-3-87, Cl. 549-528.000.
- Eclipse, Inc.: *See—*
  - Collier, David W., 4,673,350, Cl. 431-353.000.
  - Collier, David W., 4,705,022, Cl. 126-91.00A.
  - Jackson, W. Shaun; and Bohm, Leslie E., 4,662,548, Cl. 224-32.00A.
- Eclipse Technologies: *See—*
  - Forti, Steven A.; and McNulty, Robert F., Jr., 4,706,070, Cl. 340-568.000.
- Eco-Tec Limited: *See—*
  - Brown, Craig J.; and Dejak, Michael J., 4,666,683, Cl. 423-24.000.
  - Brown, Craig J., 4,673,507, Cl. 210-681.000.
- Ecodyne Limited: *See—*
  - Lindstol, Anders, deceased, 4,681,683, Cl. 210-521.000.
- Ecolab Inc.: *See—*
  - Copeland, James L., 4,687,121, Cl. 222-64.000.
  - Copeland, James L., 4,690,305, Cl. 222-52.000.
  - Copeland, James L., 4,711,738, Cl. 252-95.000.
  - Heile, Bernard J.; and Klos, Terry J., 4,680,134, Cl. 252-160.000.
  - McDermott, Peter B.; and Syrek, Gerald M., 4,667,854, Cl. 222-101.000.
  - Nystuen, David L., 4,691,721, Cl. 134-96.000.
  - Olson, Keith E., 4,657,784, Cl. 427-213.000.
  - Olson, Keith E.; and Brittain, Kent R., 4,681,914, Cl. 252-91.000.
  - Pedersen, Daniel E.; and Hatcher, Herbert J., 4,684,469, Cl. 210-632.000.
  - Riehm, Terri L.; and Hall, Robert T., II, 4,699,728, Cl. 252-142.000.
- Ecole Nationale d'Ingenieurs des Travaux: *See—*
  - Peron, Jean-Yves, 4,665,031, Cl. 435-240.000.
- Ecole Nationale Superieure de Creation Industrielle: *See—*
  - Sibertin-Blanc, Jean-Baptiste; and Tellier, Yves, 4,694,931, Cl. 182-3.000.
- Ecole Nationale Superieure de Mecanique et des Microtechniques: *See—*
  - Besson, Raymond; Delaite, Richard; Genestier, Gerard; Maitre, Pierre; Renard, Georges; Thiebaud, Daniel; and Valentin, Jean-Pascal, 4,705,982, Cl. 310-356.000.
- Ecole Polytechnique: *See—*
  - Roy, Gilles, 4,695,792, Cl. 324-83.00D.
- Ecolochem, Inc.: *See—*
  - Dickerson, Richard C.; and Miller, William S., 4,675,108, Cl. 210-275.000.
  - Muller, Richard S.; and Dickerson, Richard C., 4,659,460, Cl. 210-93.000.
- Ecolotech, Inc.: *See—*
  - Rose, Thomas A., 4,673,819, Cl. 250-573.000.
- Ecomard, Andre , to Institut Francais du Petrole. Turbocharged internal combustion engine with a system for regulating the supercharged air pressure. 4,658,587, 4-21-87, Cl. 60-602.000.
- Econocorp, Inc.: *See—*
  - Lee, Richard G.; and Fletcher, Robert T., 4,676,860, Cl. 156-443.000.
- Economatics (Education) Limited: *See—*
  - McGarry, Jerome, 4,650,425, Cl. 434-219.000.
- Economic Development Corporation: *See—*
  - Olson, Donald M., 4,639,028, Cl. 294-34.000.
- Economics Laboratory, Inc.: *See—*
  - Ciuba, Stanley J.; and Bartelme, Michael J., III, 4,675,215, Cl. 427-372.200.
  - Majewski, Donna M.; and Morganson, Stephen A., 4,642,258, Cl. 428-68.000.
  - Thomas, John E., 4,651,907, Cl. 222-639.000.
- Economidy, Byron G.: *See—*
  - Tofield, Joshua J.; Burkhardt, Boyd R.; Martin, Timothy S., and Economidy, Byron G., 4,676,802, Cl. 623-66.000.
- Economopoulos, Marios; Lambert, Nicole; Simon, Pierre; and Conti, Rene , to Centre de Recherches Metallurgiques-Centrum Voor Research in de Metallurgie; and Metallurgique et Miniere de Rodange-Athus S.A. Method and apparatus for manufacturing rails. 4,668,308, 5-26-87, Cl. 148-12.00R.
- Economopoulos, Marios, to Centre de Recherches Metallurgiques-Centrum Voor Research in de Metallurgie. Electrolytic apparatus and a method of operating it. 4,702,812, 10-27-87, Cl. 204-208.000.
- Economopoulos, Marios: *See—*
  - Bach, Norbert; Economopoulos, Marios; Gredt, Marc; Lessel, Guy; and Schummer, Arthur, 4,704,166, Cl. 148-12.00B.
- Economy Distributors, Inc.: *See—*
  - Magaha, George H., Jr., 4,651,930, Cl. 239-318.000.
- Economy Engineering, Inc.: *See—*
  - Wehmeyer, Donald T.; and Barnhart, Ronald W., 4,691,795, Cl. 180-6.480.
- Economy Forms Corporation: *See—*
  - Brotherton, Thomas W., 4,679,763, Cl. 249-189.000.
- Economy, George: *See—*
  - Draper, Robert; Lorentz, Donald G.; Baum, Allen J.; and Economy, George, 4,637,346, Cl. 122-4.00A.
- Economy, James: *See—*
  - Clark, Roger J.; Economy, James; Flandera, Mary A.; Susko, John R.; and Wheater, Robin A., 4,690,962, Cl. 524-94.000.
- Economy, Richard: *See—*
  - Merz, Donald M.; Chandler, Jimmy E.; and Economy, Richard, 4,692,880, Cl. 364-521.000.
- Ecoplastics Limited: *See—*
  - Guillet, James E.; and Redpath, Anthony E., 4,663,412, Cl. 526-284.000.
- Ecotat System Company: *See—*
  - Asher, Ron E.; and Lesko, Charles J., 4,703,521, Cl. 2-69.000.
- Ecquarican Enterprises, Inc.: *See—*
  - Fordyce, Douglas, 4,646,673, Cl. 116-34.00R.
- Ector, W. Lane, Jr., to Concept Incorporated. Lighted canalicular intubation sets. 4,658,816, 4-21-87, Cl. 128-303.100.
- Ecupan AB: *See—*
  - Johansson, Erik, 4,659,416, Cl. 156-384.000.
- Ed. Scharwachter GmbH & Co. KG.: *See—*
  - Brockhaus, Ernst, 4,675,940, Cl. 16-273.000.
- Ed. Zublin Aktiengesellschaft: *See—*
  - Beitinger, Eberhard; and Glaser, Eberhard, 4,678,771, Cl. 502-402.000.
  - Fastenau, Werner, 4,637,586, Cl. 249-159.000.
  - Glaser, Eberhard, 4,678,369, Cl. 405-129.000.
  - Glaser, Eberhard; and Beitinger, Eberhard, 4,679,965, Cl. 405-258.000.
  - Hahn, Volker; and Beitinger, Eberhard, 4,647,256, Cl. 405-184.000.
  - Nussbaumer, Manfred; Glaser, Eberhard; and Beitinger, Eberhard, 4,671,705, Cl. 405-267.000.
  - Nussbaumer, Manfred, 4,673,312, Cl. 405-184.000.
  - Nussbaumer, Manfred; Glaser, Eberhard; and Beitinger, Eberhard, 4,673,316, Cl. 405-267.000.
  - Nussbaumer, Manfred; Glaser, Eberhard; and Beitinger, Eberhard, 4,690,590, Cl. 405-267.000.
  - Nussbaumer, Manfred; Glaser, Eberhard; Beitinger, Eberhard; and Eckardt, Hartmann, 4,697,953, Cl. 405-128.000.
  - Thiemann, Heinz; Schwarz, Bernd; and Langhans, Dieter, 4,656,743, Cl. 33-1.00H.
- Eda, Hiroshi: *See—*
  - Kanazawa, Hirotaka; Takatani, Teruhiko; Furutani, Shigeki; Chikuma, Isamu; Shimada, Satoru; and Eda, Hiroshi, 4,646,867, Cl. 180-140.000.
- Eda, Nobuo, to Mitsubishi Denki Kabushiki Kaisha. Differential-type protective relay. 4,670,811, 6-2-87, Cl. 361-45.000.
- Edagawa, Mitsugu: *See—*
  - Yamada, Norio; Kajitani, Hayashi; Chiba, Kyoji; and Edagawa, Mitsugu, 4,636,966, Cl. 364-491.000.
- Edakubo, Hiroo; Takayama, Nobutoshi; and Takimoto, Hiroyuki, to Canon Kabushiki Kaisha. Head tracking apparatus. 4,636,882, 1-13-87, Cl. 360-77.000.
- Edakubo, Hiroo, to Canon Kabushiki Kaisha. Information signal reproducing apparatus. 4,679,099, 7-7-87, Cl. 360-10.200.
- Edakubo, Hiroo; and Nagasawa, Kenichi, to Canon Kabushiki Kaisha. Color video signal mixing system. 4,688,102, 8-18-87, Cl. 358-310.000.
- Edakubo, Hiroo, to Canon Kabushiki Kaisha. Reproducing apparatus having recording speed discriminating system. 4,714,970, 12-22-87, Cl. 360-73.000.
- Edakubo, Hiroo: *See—*
  - Kozuki, Susumu; Nagasawa, Kenichi; Edakubo, Hiroo; Sato, Junichi; and Takayama, Nobutoshi, 4,638,390, Cl. 360-74.100.
  - Kozuki, Susumu; Takayama, Nobutoshi; Edakubo, Hiroo; Ushiro, Tatsuzo; Takei, Masahiro; and Nagasawa, Kenichi, 4,665,449, Cl. 360-77.000.
  - Kozuki, Susumu; Takimoto, Hiroyuki; Edakubo, Hiroo; and Takayama, Nobutoshi, 4,691,256, Cl. 360-73.000.

Edberg, Dan O., to A/S Ingeniorgruppen AF. Beater mill having at least one vertically or obliquely extending cylindrical milling chamber. 4,637,561, 1-20-87, Cl. 241-154.000.

Edberg, Thomas: *See—*
  Bjorlin, Anders; Edberg, Thomas; Sjoblom, Eva; and Westling, Anders, 4,670,184, Cl. 252-311.000.

Edblad, Warren A.: *See—*
  Jones, Donald J.; Edblad, Warren A.; Pringle, Judith S.; Oravetz, David M.; and Patelunas, Joann R., 4,663,704, Cl. 364-188.000.

Edco, Inc.: *See—*
  Nabell, Robert E.; and Wrighton, William F. C., 4,703,983, Cl. 439-92.000.

Edd, Jon F.: *See—*
  Fleming, Hubert L.; Edd, Jon F.; Pearson, Alan; Chou, Chin-Liang; Kono, Hisashi O.; and Huang, Ching-Chung, 4,704,378, Cl. 502-355.000.

Eddinger, Kevin: *See—*
  Mosser, Mark F.; and Eddinger, Kevin, 4,650,699, Cl. 427-240.000.

Eddins, Fred D.; and Cooke, William B., to Hasbro, Inc. Animated night-light and music-box combination. 4,670,820, 6-2-87, Cl. 362-86.000.

Eddy, Albert W. Method and apparatus for printing the interior of hollow articles. 4,667,594, 5-26-87, Cl. 101-35.000.

Eddy, Elizabeth L.: *See—*
  Kobylinski, Thaddeus P.; Kibby, Charles L.; Pannell, Richard B.; and Eddy, Elizabeth L., 4,670,414, Cl. 502-174.000.

Eddy, Frederick N., to United States of America, Air Force. Retrodirective radar and target simulator beacon apparatus and method. 4,686,534, 8-11-87, Cl. 342-165.000.

Eddy, William C.: *See—*
  Buike, James W.; and Eddy, William C., 4,638,837, Cl. 137-627.500.

Eddy, William C., Jr., to Allied Corporation. Variable rate shock absorber. 4,682,675, 7-28-87, Cl. 188-299.000.

Ede, Michael: *See—*
  Andrews, Donald R., 4,635,042, Cl. 340-605.000.

Edejer, Merardo P.; Ford, Roger S.; Jailor, John J.; and Jens, Michael J., to Scott & Fetzer Company, The. Rotation indicating device. 4,692,754, 9-8-87, Cl. 340-671.000.

Edelhoff, Gustav D.; and Smith, Fred I., to Edelhoff Polytechnik GmbH & Co. Motor-driven garbage truck comprising a detachable container. 4,715,767, 12-29-87, Cl. 414-408.000.

Edelhoff Polytechnik GmbH & Co.: *See—*
  Edelhoff, Gustav D.; and Smith, Fred I., 4,715,767, Cl. 414-408.000.

Edelman, Brian S.: *See—*
  Aposchanski, Alexander; Buglione, Arthur J.; Coats, James M.; and Edelman, Brian S., 4,644,474, Cl. 364-431.050.

Edelman, Robert, to M&T Chemicals Inc. Siloxane-containing polymers. 4,652,598, 3-24-87, Cl. 524-99.000.

Edelman, William; Naghieh, Hamid R.; and Constantinou, Dennis, to Shiley Inc. Liquid interface fiberoptic coupler. 4,657,014, 4-14-87, Cl. 128-303.100.

Edelman, William, to Shiley Inc. Apparatus for focusing an intravascular laser catheter. 4,681,104, 7-21-87, Cl. 128-303.100.

Edelmann, Hermann; Pasch, Manfred; Mann, Karlheinz; Sattler, Stephan; and Haar, Hans-Peter, to Boehringer Mannheim GmbH. Photometric analysis apparatus for a liquid. 4,676,952, 6-30-87, Cl. 422-72.000.

Edelmann, Ludwig: *See—*
  Brandenstein, Manfred; Edelmann, Ludwig; Haas, Roland; Herrmann, Gerhard; and Hans, Rudiger, 4,643,700, Cl. 474-112.000.

Edelmayer, Thomas C., to Teledyne Continental Motors. Piston pin construction and method for forming same. 4,640,641, 2-3-87, Cl. 403-150.000.

Edelsohn, Charles R.: *See—*
  Tsuda, George L., and Edelsohn, Charles R., 4,649,391, Cl. 342-153.000.

Edelson, Richard L., to Bourke, Frederic A., Jr.; Bourke, Eleanor F.; Edelson, Richard L.; and Edelson Trust, The. Method and system for externally treating the blood. 4,683,889, 8-4-87, Cl. 128-395.000.

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Edelson, Steven D. Method and apparatus for providing anti-aliased edges in pixel-mapped computer graphics. 4,704,605, 11-3-87, Cl. 340-728.000.

delson Trust, The: *See—*
  Edelson, Richard L., 4,683,889, Cl. 128-395.000.

delstein, Fred, to United States of America, National Aeronautics and Space Administration. Pumped two-phase heat transfer loop. 4,664,177, 5-12-87, Cl. 165-1.000.

elstein, Fred; Haslett, Robert A.; Kosson, Robert L.; and Harwell, William, to Grumman Aerospace Corporation. Capillary-pumped heat transfer panel and system. 4,685,512, 8-11-87, Cl. 165-104.140.

elstein, Fred; and Brown, Richard F., to United States of America, National Aeronautics and Space Administration. Monogroove cold plate. 4,687,048, 8-18-87, Cl. 165-1.000.

elstein, William A.; Schenck, John F.; Mueller, Otward M.; and Hayes, Cecil E., to General Electric Company. Radio frequency field coil for NMR. 4,680,548, 7-14-87, Cl. 324-318.000.

elstein, William A.; Hutchison, James M. S.; Johnson, Glyn; Redpath, Thomas W. T.; and Mallard, John R., to National Research Development Corporation. Methods of producing image formation from objects. 4,706,025, 11-10-87, Cl. 324-309.000.

Edelstein, William A.: *See—*
  Bottomley, Paul A.; Edelstein, William A.; Hart, Howard R., Jr.; Schenck, John F.; Redington, Rowland W.; and Leue, William M., 4,689,563, Cl. 324-309.000.
  Hardy, Christopher J.; and Edelstein, William A., 4,695,799, Cl. 324-307.000.
  Hodsoll, Raymond J., Jr.; Karr, Steven G.; Leue, William M.; Smith, Lowell S.; Redington, Rowland W.; Bottomley, Paul A.; and Edelstein, William A., 4,667,159, Cl. 324-309.000.
  O'Donnell, Matthew; Karr, Steven G.; Barber, William D.; Wang, Jish M.; and Edelstein, William A., 4,680,551, Cl. 324-320.000.
  Schenck, John F.; Hussain, Moayyed A.; and Edelstein, William A., 4,646,024, Cl. 324-318.000.
  Vatis, Dimitrios; Smith, Lowell S.; and Edelstein, William A., 4,694,254, Cl. 324-309.000.

Eden, Dayton D., to LTV Aerospace and Defense Company. Optical erasable disk memory system utilizing duration modulated laser switching. 4,637,008, 1-13-87, Cl. 369-100.000.

Eden, James G.; and Geohegan, David B., to United States of America, Air Force. Photoionization technique for growth of metallic films. 4,649,059, 3-10-87, Cl. 427-38.000.

Edenbaum, Martin I.; and Rybalka, Borys, to Seton Company. Foam bandage. 4,655,210, 4-7-87, Cl. 128-156.000.

Edenbaum, Martin I.; and Rybalka, Borys, to Seton Company. Self-release foam laminate. 4,675,232, 6-23-87, Cl. 428-317.300.

Edenborough, John S.: *See—*
  Neuhalfen, Michael A.; Ridoux, Frank E.; and Edenborough, John S., 4,711,226, Cl. 123-609.000.

Edenhofer, Albrecht: *See—*
  Cassal, Jean-Marie; Edenhofer, Albrecht; and Ramuz, Henri, 4,675,328, Cl. 514-345.000.
  Cassal, Jean-Marie; Edenhofer, Albrecht; and Ramuz, Henri, 4,692,450, Cl. 514-256.000.

Edens, Luppo; Ledeboer, Adrianus; Verrips, Cornelis; and Van den Berg, Johannes A., to Internationale Octrooi Maatschappij "Octropa" BV. Yeast of the genus kluyveromyces modified for the expression of preprothaumatin or its various allelic and modified forms or their maturation forms, and the proteins obtained by that expression. 4,657,857, 4-14-87, Cl. 435-68.000.

Eder, Ernest J.; and Goodwin, Laverne D. Reverse bend attachment for a sheet metal brake. 4,713,957, 12-22-87, Cl. 72-319.000.

Eder Instrument Co.: *See—*
  Welber, Stanley; and Lakatos, Nick, 4,635,632, Cl. 128-303.100.

Eder, Kenneth C.; and Krzyanowski, Robert V., to Honeywell Inc. Ultrasonic distance sensor with dual burst noise rejection. 4,679,175, 7-7-87, Cl. 367-98.000.

Eder, Kurt T. Cleaning tape for top roll assembly. 4,706,339, 11-17-87, Cl. 19-265.000.

Eder, Theodor; and Koser, Jaroslav, to Eder, Theodor; and Austria Metall Aktiengesellschaft. Method of making a ship's hull. 4,662,299, 5-5-87, Cl. 114-84.000.

Eder, Wilhelm: *See—*
  Spriewald, Erika; Eder, Wilhelm; and Meckl, Heinz, 4,664,799, Cl. 210-288.000.

Ederati, Richard M.; and Perez, Henry J. Urostomy guard. 4,636,206, 1-13-87, Cl. 604-340.000.

Edgar, Brian W.; and Elliott, Robert B., to University of Auckland, The. Method of dispensing and/or a dispenser. 4,677,975, 7-7-87, Cl. 128-200.140.

Edgar, Reuben W., Jr.; Gilstad, Dennis W.; and Branstetter, Ronald L., to Nippon Colin Co., Ltd. Method and apparatus for noninvasive monitoring of arterial blood oxygen saturation. 4,714,080, 12-22-87, Cl. 128-633.000.

Edgar, Thomas L.; Baker, George A.; and Comerford, Robert P., to Chicago Bridge & Iron Company. Silo for bulk storage of large quantities of products at closely controlled humidity and temperature conditions throughout. 4,662,137, 5-5-87, Cl. 52-245.000.

Edge, David J.; Naik, Appaya R.; and Scott, Melvin, to Lever Brothers Company. Detergent compositions. 4,680,143, 7-14-87, Cl. 252-553.000.

Edgerton, Preston. Shoe top cover. 4,665,633, 5-19-87, Cl. 36-2.00R.

Edgerton, Willie H., to Ouzts, Wilbert. Valve seat cutting tool. 4,708,541, 11-24-87, Cl. 408-83.500.

Edging, Thomas E.: *See—*
  Stewart, John M.; Clark, Teddy R.; and Edging, Thomas E., 4,684,512, Cl. 423-321.00R.

Edgington, Nicholas: *See—*
  Coster, Charles S.; and Edgington, Nicholas, 4,659,232, Cl. 368-223.000.

Edgington, Thomas S.: *See—*
  Curtiss, Linda K.; and Edgington, Thomas S., 4,677,057, Cl. 435-7.000.

Edgley, John K., to Optica Industries Limited. Ducted propeller aircraft. 4,657,209, 4-14-87, Cl. 244-54.000.

Edgley, Richard, to Molex Incorporated. Edge board connector with positive board lock. 4,712,848, 12-15-87, Cl. 439-327.000.

Edguer, Nihat S.: *See—*
  Derfiny, Dennis J.; van den Heuvel, Anthony P.; and Edguer, Nihat S., 4,641,222, Cl. 361-403.000.

Edholm, Stig; and Stenberg, Bengt. Signal transmitter. 4,639,711, 1-27-87, Cl. 338-114.000.

Edholm, Thomas; and Stahl, Ulf, to Kamas Industri AB. Arrangement in machines for separating materials having different aerodynamic properties. 4,634,522, 1-6-87, Cl. 209-154.000.

Edholm, Thomas; and Stahl, Ulf, to Kamas Industri AB. Arrangement in grading and cleaning machines with screens. 4,687,105, 8-18-87, Cl. 209-546.000.

Ediger, Glen: *See—*

Bartholomew, Alan; Bauer, Harold; Berry, Loren E.; and Ediger, Glen, 4,693,406, Cl. 227-63.000.

Edinger, Egon; Koetter, Joachim; Kraske, Dietmar; Krumrey, Klaus; Mayser, Joerg; and Michael, Ulrich, to Siemens Aktiengesellschaft. Method for manufacturing electronic card modules. 4,667,403, 5-26-87, Cl. 29-840.000.

Edinger, Egon; and Pedall, Friedrich, to Siemens Aktiengesellschaft. Connection method for piezo-electric acoustic transducers in electroacoustic capsules. 4,674,161, 6-23-87, Cl. 29-25.350.

Edison Price Incorporated: *See—*

Price, Edison A., 4,671,170, Cl. 98-41.300.

Edl, Josef, to Quick-Rotan Elektromotoren GmbH. Motor having an electromagnetically actuated friction clutch and friction brake. 4,643,282, 2-17-87, Cl. 192-18.00B.

Edlin, George R.; and Snead, Robert A., to United States of America, Army. Time varying magnetic field safety probe. 4,634,969, 1-6-87, Cl. 324-95.000.

Edlin, George R.: *See—*

Strickland, Brian R.; and Edlin, George R., 4,647,849, Cl. 324-95.000.

Strickland, Brian R.; and Edlin, George R., 4,673,870, Cl. 324-74.000.

Edlund, Carl E.; and Sparks, Cecil R., to Southern Gas Association. Electronic square root error indicator. 4,654,813, 3-31-87, Cl. 364-571.000.

Edlund, Roy; and Hom, Jorgen, to Busak & Luyken GmbH and Co. Double wiper seal arrangement. 4,709,932, 12-1-87, Cl. 277-165.000.

Edlund, Roy: *See—*

Mack, Theo; and Edlund, Roy, 4,714,259, Cl. 277-165.000.

Edmark, Karl W., III, to GCA Corporation. Microlithographic calibration scheme. 4,640,619, 2-3-87, Cl. 356-372.000.

Edmeads, Ralph W., to Mahaffy Materials Handling Ltd. Truck restraint system. 4,664,582, 5-12-87, Cl. 414-401.000.

Edminster, Robert E., to Motorola, Inc. Low profile, pivoted generator. 4,656,943, 4-14-87, Cl. 102-208.000.

Edminster, Robert E., to Motorola, Inc. Axial movement blocking apparatus. 4,708,511, 11-24-87, Cl. 403-316.000.

Edminster, Robert E., to Motorola, Inc. Attachment apparatus and method for attaching. 4,715,757, 12-29-87, Cl. 411-411.000.

Edminster, Robert E.: *See—*

Roche, Thomas A.; and Edminster, Robert E., 4,636,581, Cl. 174-152.00R.

Edmisson, Delmar D., to Adams Hard-Facing Company, Inc. Agricultural sweep. 4,645,013, 2-24-87, Cl. 172-730.000.

Edmiston, Charles G., to GTE Products Corporation. Process for forming ceramic parts. 4,690,791, 9-1-87, Cl. 264-122.000.

Edmonds, Albert V.: *See—*

Whittenburg, Stephen L.; Morris, David S.; Edmonds, Albert V.; McGaw, John; McCormick, David D.; Bartlett, William L.; Cruz, Edward; and Harding, David, 4,657,193, Cl. 241-282.100.

Edmonds, Anthony C. F.: *See—*

Chin, Chang-Hwa; Edmonds, Anthony C. F.; and Evans, Colin M., 4,713,232, Cl. 423-390.000.

Masse, Gary M. J.; and Edmonds, Anthony C. F., 4,673,560, Cl. 423-532.000.

Edmonds, Christopher: *See—*

Brahm, David J.; Draper, Don R.; Edmonds, Christopher; and Grinn, James M., 4,654,820, Cl. 364-900.000.

Edmonds, Michael G.: *See—*

Betts, David R.; and Edmonds, Michael G., 4,690,417, Cl. 280-42.000.

Edmondson, Gerald K.: *See—*

Benisek, Ladislav; and Edmondson, Gerald K., 4,707,467, Cl. 502-403.000.

Edmondson, James G., to Betz Laboratories, Inc. Method of inhibiting propionic acid corrosion in distillation units. 4,647,366, 3-3-87, Cl. 208-47.000.

Edmondson, James G., to Betz Laboratories, Inc. Method of scavenging hydrogen sulfide. 4,680,127, 7-14-87, Cl. 210-749.000.

Edmund-White, Barrie E. Property sales sign case. 4,667,829, 5-26-87, Cl. 206-575.000.

Edmunds, Raymond S. Apparatus and method for extruding and packaging portions of extrudable, form retaining products. 4,633,651, 1-6-87, Cl. 53-435.000.

EDO Corporation: *See—*

Pino, Louis, 4,635,443, Cl. 60-628.000.

Edo Corporation/Fiber Science Division: *See—*

Brooks, John C., 4,684,423, Cl. 156-156.000.

Mohan, Raja, 4,671,831, Cl. 156-69.000.

Mohan, Raja, 4,699,288, Cl. 220-3.000.

Edoardo, Favagrossa. Brush for a washing roller. 4,658,460, 4-21-87, Cl. 15-182.000.

Edouard Dubied & Cie, S.A.: *See—*

Kohler, Fritz; and Perotti, Andre, 4,644,763, Cl. 66-75.200.

Edridge, Michael J., to Ford Aerospace & Communications Corporation. Reconfigurable multiplexer. 4,688,259, 8-18-87, Cl. 455-12.000.

Edry, Richard J.: *See—*

Schwartz, Martin J.; Howes, H. Frank; and Edry, Richard J., 4,654,781, Cl. 364-200.000.

Edsall, Jesse A.: *See—*

Wilkinson, Herbert C.; and Edsall, Jesse A., 4,672,836, Cl. 72-479.000.

Edso, Lennart: *See—*

Andersson, Jan; Edso, Lennart; Jonsson, Nils-Ake; and Rissler, Per, 4,699,212, Cl. 165-167.000.

Edson, Gwynne I. Electropolishing process. 4,663,005, 5-5-87, Cl. 204-129.850.

Edson Industries Pty., Ltd.: *See—*

Pfeiffer, Otto; and Gnezda, Drago, 4,671,575, Cl. 301-37.0TP.

Edson, James B., to ADT, Inc. Alarm system test annunciator. 4,683,459, 7-28-87, Cl. 340-514.000.

Edson, James B.: *See—*

Galvin, Aaron A.; Edson, James B.; and Guscott, John K., 4,636,774, Cl. 340-565.000.

Edson, Steven S., to W. R. Grace & Co. Manual relief gas vent. 4,688,591, 8-25-87, Cl. 137-15.000.

Edson, Sydney, to Sara Lee Corporation. Support frame for a display carton. 4,697,776, 10-6-87, Cl. 248-311.200.

Edson, Sydney: *See—*

Howard, Fred; and Edson, Sydney, 4,705,175, Cl. 211-59.200.

Edson, William A.; Nelson, Raymond A.; and Frankel, Michael S., to SRI International. Passive, frequency-steerable, microwave repeater system. 4,677,440, 6-30-87, Cl. 342-157.000.

Edstrom, Carl W.; Fedele, Daniel E.; and Lazar, Martin, to Raytheon Company. Apparatus for delaying printer bail closing. 4,684,277, 8-4-87, Cl. 400-639.100.

Eduard Kusters Maschinenfabrik GmbH & Co. KG: *See—*

Brendel, Bernhard, 4,644,860, Cl. 100-35.000.

Educational Experiences, Inc.: *See—*

Cayton, Nancy M., 4,713,891, Cl. 33-494.000.

Edvardsen, Terje: *See—*

Lien, Per; and Edvardsen, Terje, 4,662,807, Cl. 411-368.000.

Edvardsson, Kurt O., to Saab Marine Electronics Aktiebolag. Method and apparatus for measuring the level of a fluent material in a container. 4,641,139, 2-3-87, Cl. 342-124.000.

Edvardsson, Kurt O., to Saab Marine Electronics Aktiebolag. Method and apparatus for level measurement with microwaves. 4,665,403, 5-12-87, Cl. 342-124.000.

Edward Billington & Son Limited: *See—*

Statham, Roger; and Taylor, John F., 4,636,389, Cl. 426-11.000.

Edward E. Gillen Company: *See—*

Mulqueen, Paul J., 4,650,389, Cl. 414-10.000.

Edward Weck & Co.: *See—*

Peters, Rudolph; Peters, Ronald; and Taylor, William, 4,712,548, Cl. 128-325.000.

Edward Weck & Company, Inc.: *See—*

O'Harra, Dale G., II, 4,635,265, Cl. 372-25.000.

Peters, Rudolph; Peters, Ronald L.; and Taylor, William, 4,646,740, Cl. 128-325.000.

Thornton, Curtis W., 4,662,555, Cl. 227-19.000.

Thornton, Curtis W., 4,685,460, Cl. 128-321.000.

Edwards, A. Glen; Wesson, David S.; and Brieger, Emmet F., to Halliburton Company. Method and apparatus for absorbing shock. 4,693,317, 9-15-87, Cl. 166-378.000.

Edwards, A. Glen: *See—*

Wesson, David S.; Edwards, A. Glen; George, Flint R.; George, Kevin R.; and Brieger, Emmert F., 4,658,902, Cl. 166-317.000.

Edwards, A. Russell: *See—*

London, J. Reid; Bell, Cecil R., Jr.; Edwards, A. Russell; Lathery, Willie M.; Efird, Lee A.; Porter, Richard M.; Shaw, Stephen K.; Costello, Thomas J.; Pike, August A.; Bell, Donald G.; and Setliff, Harold, 4,640,162, Cl. 83-152.000.

London, J. Reid; Bell, Cecil R., Jr.; Edwards, A. Russell; Lathery, Willie M.; Efird, Lee A.; Porter, Richard M.; Shaw, Stephen K.; Costello, Thomas J.; Pike, August A.; Bell, Donald G.; and Setliff, Harold, 4,704,976, Cl. 112-262.200.

Edwards, Arthur J.: *See—*

Sievers, Kirk A.; and Edwards, Arthur J., 4,670,705, Cl. 322-28.000.

Edwards, Brian E.; and Biron, David G., to Massachusetts Institute of Technology. Laser radar utilizing pulse-tone waveform. 4,690,551, 9-1-87, Cl. 356-5.000.

Edwards, Carl H., to Cooper Industries, Inc. Time delay electric fuse. 4,680,567, 7-14-87, Cl. 337-164.000.

Edwards, Carson P.; Huisjen, Martin A.; and Munson, Robert E., to Ball Corporation. Microwave/seismic security system. 4,684,929, 8-4-87, Cl. 340-541.000.

Edwards, Charles L., to Shell Oil Company. Alkoxylation process using bimetallic oxo catalyst. 4,665,236, 5-12-87, Cl. 568-618.000.

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Edwards, Charles W., to Westinghouse Electric Corp. Delay circuit for inverter switches. 4,651,270, 3-17-87, Cl. 363-96.000.

Edwards, Charles W., to Westinghouse Electric Corp. Multi-inverter control apparatus. 4,674,025, 6-16-87, Cl. 363-71.000.

Edwards, Charles W., to Westinghouse Electric Corp. Low dissipation capacitor voltage sharing circuit for a static AC/DC converter. 4,686,619, 8-11-87, Cl. 363-126.000.

Edwards, Charles W.: *See—*

Paice, Derek A.; and Edwards, Charles W., 4,674,024, Cl. 363-71.000.

Edwards, Christopher J.; George, Robert D.; and Sherlock, Paul, to Sherwood Medical Company. Anti-reflux drain tube and drainage meter combination. 4,633,887, 1-6-87, Cl. 128-762.000.

Edwards, Clarence C. Method of color photography of black and white object. 4,714,334, 12-22-87, Cl. 354-76.000.

Edwards, Constance M.: *See—*

Edwards, James D.; and Edwards, Constance M., 4,672,383, Cl. 342-394.000.

Edwards, David J.; and Watson, Barry K., to British Telecommunications plc. Electronic tracking system for microwave antennas. 4,704,611, 11-3-87, Cl. 342-367.000.

Edwards, David M.; and Haywood, Kenneth H., to British Petroleum Company p.l.c., The. Burner. 4,643,670, 2-17-87, Cl. 431-202.000.

Edwards, David V.; and Newman, Michael A., to RFD Limited. Inflatable liferaft. 4,678,443, 7-7-87, Cl. 441-38.000.

Edwards, David V., to R.F.D. Limited. Inflatable lifejacket. 4,685,890, 8-11-87, Cl. 441-94.000.

Edwards, Dean B.; and Rippel, Wally E., to California Institute of Technology. Composite battery separator. 4,664,992, 5-12-87, Cl. 429-144.000.

Edwards, Donald W., to Du Pont de Nemours, E. I., and Company. Multiple bundle fluid separation apparatus. 4,670,145, 6-2-87, Cl. 210-321.100.

Edwards, Douglas C.; and Crossman, James A., to Polysar Limited. Dispersions of fibres in rubber. 4,659,754, 4-21-87, Cl. 523-214.000.

Edwards, Douglas F., to J. B. Foote Foundry Co., The. Simplified disc brake. 4,633,979, 1-6-87, Cl. 188-72.700.

Edwards, Douglas F., to J. B. Foote Foundry Co., The. Infinitely variable speed drive with differential having two input shafts and an output gear. 4,651,592, 3-24-87, Cl. 74-689.000.

Edwards, Douglas F., to J. B. Foote Foundry Co., The. Single control, mechanical variable speed drive. 4,653,345, 3-31-87, Cl. 74-700.000.

Edwards, Douglas F., to J. B. Foote Foundry Co., The. Shift mechanism. 4,656,886, 4-14-87, Cl. 74-475.000.

Edwards, Douglas F., to J. B. Foote Foundry Co., The. Two-shaft gear drive. 4,662,241, 5-5-87, Cl. 74-701.000.

Edwards, Douglas F., to J. B. Foote Foundry Co., The. Shift mechanism employing gears with built-in ramps. 4,702,119, 10-27-87, Cl. 74-371.000.

Edwards, Evan A.: *See—*
Dobner, Michael H.; and Edwards, Evan A., 4,685,648, Cl. 248-572.000.

Edwards, Floyd V.; and Shah, Hasmukh, to Becton, Dickinson and Company. Disposable reservoir cassette. 4,685,902, 8-11-87, Cl. 604-153.000.

Edwards, Gene R.; and Anderson, Charles W. Ouch saver circuit tester guide and methods of constructing and utilizing same. 4,709,206, 11-24-87, Cl. 324-158.00P.

Edwards, Grant C.; Gilson, Jean-Pierre; and McDaniel, Carl V., to W. R. Grace & Co. Cracking catalyst. 4,681,864, 7-21-87, Cl. 502-63.000.

Edwards, Gregory S. Combined child safety car seat and stroller. 4,685,688, 8-11-87, Cl. 280-30.000.

Edwards, Hugh A.; and Patchell, John W., to Allied Corporation; and Senstar Security Systems Corporation. Method of producing leaky coaxial cable. 4,660,007, 4-21-87, Cl. 333-237.000.

Edwards, James A.: *See—*
Edwards, Samuel H.; and Edwards, James A., 4,681,501, Cl. 414-42.000.

Edwards, James D.; and Edwards, Constance M. Craft guidance system. 4,672,383, 6-9-87, Cl. 342-394.000.

Edwards, John C.; Allen, Gerald J.; Martin, John K.; and Summers, Malcolm R., to Amersham International plc. Immunoassay with chromatographic medium and labelled reagent. 4,666,863, 5-19-87, Cl. 436-514.000.

Edwards, John R.; Popov, George D.; and Philbrick, John B., to Lapine Technology. Apparatus for loading and retracting magnetic head in a disk drive. 4,703,376, 10-27-87, Cl. 360-105.000.

Edwards, Jon K.: *See—*
Almeter, David D.; and Edwards, Jon K., 4,652,754, Cl. 250-325.000.

Edwards, Jonathan; Waller, David L.; and May, Michael D., to Inmos Limited. High density ROM in separate isolation well on single with chip. 4,680,698, 7-14-87, Cl. 364-200.000.

Edwards, Katherine Elliot, co-executrix: *See—*
Edwards, Richard N., deceased; and Edwards, Richard N., Jr., co-executor, 4,652,382, Cl. 210-752.000.

Edwards, Kevin L.: *See—*
Owen, Michael J.; Middleton, Victor; and Edwards, Kevin L., 4,650,620, Cl. 264-45.500.

Edwards, Laroy H., to Chevron Research Company. 2-thio-organotin-4(3H)-quinazolinone. 4,652,558, 3-24-87, Cl. 514-186.000.

Edwards, Lawrence J., to Combustion Engineering, Inc. Self-orienting conduit probe. 4,703,264, 10-27-87, Cl. 324-220.000.

Edwards, Leonard, to Bijur Lubricating Corp. Drill bit. 4,664,567, 5-12-87, Cl. 408-59.000.

Edwards, Lew: *See—*
Kuzyk, Roman; Bender, Richard H.; and Edwards, Lew, 4,690,546, Cl. 355-69.000.

Edwards Manufacturing, Inc.: *See—*
Fraley, Walter C., 4,712,799, Cl. 273-138.00A.

Edwards, Mary S.: *See—*
Dubrinsky, Max M.; and Edwards, Mary S., 4,655,447, Cl. 272-69.000.
Dubrinsky, Max M.; and Edwards, Mary S., 4,687,196, Cl. 272-69.000.

Edwards, Michael: *See—*
McCarthy, Brian D.; and Edwards, Michael, 4,689,834, Cl. 2-422.000.

Edwards, Neil K.; and Gorden, Michael W., to Journey Electronics Corp. Glue detection system. 4,704,603, 11-3-87, Cl. 340-674.000.

Edwards, Pansy S. Exercise machine. 4,712,791, 12-15-87, Cl. 272-73.000.

Edwards, Peter J.: *See—*
Cowpertwait, John; and Edwards, Peter J., 4,667,810, Cl. 198-525.000.

Edwards, Philip N.: *See—*
Eakin, Murdoch A.; Edwards, Philip N.; and Large, Michael S., 4,670,592, Cl. 564-234.000.
Yellin, Tobias O.; Gilman, David J.; Edwards, Philip N.; Large, Michael S.; Jones, Derrick F.; and Oldham, Keith, 4,657,908, Cl. 514-245.000.

Edwards, Preston. Trash bag holding device. 4,705,249, 11-10-87, Cl. 248-101.000.

Edwards, Richard B.: *See—*
Clarke, Terence A.; Edwards, Richard B.; and Irving, Graeme N., 4,680,132, Cl. 252-108.000.

Edwards, Richard L.: *See—*
Logan, David J.; Wood, Kenneth O.; Hernandez, William; and Edwards, Richard L., 4,711,035, Cl. 33-200.000.

Edwards, Richard N., deceased (by Edwards, Katherine Elliot, co-executrix); and Edwards, Richard N., Jr., co-executor, to International Waste Water Reclamation Technologies, Inc. Process and apparatus for continuously treating sewage wastewater by chemical oxidation. 4,652,382, 3-24-87, Cl. 210-752.000.

Edwards, Richard N., Jr., co-executor: *See—*
Edwards, Richard N., deceased; and Edwards, Richard N., Jr., co-executor, 4,652,382, Cl. 210-752.000.

Edwards, Rick C.: *See—*
McCormick, Peter E.; Edwards, Rick C.; Autry, Walter D., Jr.; Culbertson, Timothy D.; Goch, Jerome F.; and Linder, Marc S., 4,676,142, Cl. 92-130.00R.

Edwards, Robert C.; and Udovich, Carl A., to Standard Oil Company (Indiana). Process for the manufacture of maleic anhydride utilizing catalysts reactivated with alkyl esters of orthophosphoric acid in the presence of water. 4,649,205, 3-10-87, Cl. 549-260.000.

Edwards, Robert C.; and Meyers, Bernard L., to Standard Oil Company (Indiana). Catalysts useful for the manufacture of maleic anhydride having a characteristic X-ray diffraction pattern. 4,652,543, 3-24-87, Cl. 502-209.000.

Edwards, Robert C., to Standard Oil Company (Indiana). Process for the manufacture of catalysts for the production of maleic anhydride. 4,699,895, 10-13-87, Cl. 502-209.000.

Edwards, Robert C., to Amoco Corporation. Process for improving phosphorus-vanadium oxide and phosphorus-vanadium-co-metal oxide catalysts. 4,701,433, 10-20-87, Cl. 502-209.000.

Edwards, Robert J. Nonslip crutch foot assembly. 4,708,154, 11-24-87, Cl. 135-84.000.

Edwards, Ronald: *See—*
Hardwick, Martha K.; Pike, Kelly A.; Evans, George D., II; Edwards, Ronald; and Norman, Jacob J., 4,648,868, Cl. 604-32.000.

Edwards, Samuel H.; and Edwards, James A. Article transfer apparatus. 4,681,501, 7-21-87, Cl. 414-42.000.

Edwards, Sherrie M.: *See—*
Quilling, Marlys M.; Edwards, Sherrie M.; and Mathews, Jeanette M., 4,660,226, Cl. 2-49.00R.

Edwards, Thomas P.: *See—*
Beesley, Brian G.; Hurley, Clive; Brend, Ramon H. J.; Edwards, Thomas P.; Sherrell, Robert W. D.; and Vickery, Andrew J., 4,677,909, Cl. 100-229.000.

Edwards, Timothy R.: *See—*
Choma, Alvin A.; and Edwards, Timothy R., 4,644,818, Cl. 74-650.000.

Edwards, Troy C. Interior wall trim system. 4,642,957, 2-17-87, Cl. 52-242.000.

Edwards, Walter A.; and Huddleston, George R., Jr., to B. F. Goodrich Company, The. Property variation of dispersion resins by electrofiltration. 4,693,800, 9-15-87, Cl. 204-180.100.

Edwards, Walter A.: *See—*
Huddleston, George R., Jr.; and Edwards, Walter A., 4,671,860, Cl. 204-182.300.

Edwards, Walter C.; and Winterbottom, Robert J. H. Machine tools. 4,646,596, 3-3-87, Cl. 82-19.000.

Edwards, Walter G.: *See—*
Winterbottom, Robert J. H.; and Edwards, Walter G., 4,672,550, Cl. 364-474.000.

Edwards, Wayne; Nation, Richard V.; and Tomkins, Keith A. Adhesively secured fastener. 4,712,957, 12-15-87, Cl. 411-82.000.

Edwards, William, to C.C. Developments, Limited. Carbonizable fabrics of activated, carbonized fibers and differently activated or unactivated fibers. 4,714,649, 12-22-87, Cl. 428-257.000.

Edwards, William B.; and Hamlin, Thomas J., to Xerox Corporation. Copying machine with a rotary sorter having sheet gripping devices. 4,678,179, 7-7-87, Cl. 271-295.000.

Edwards, William D., to R-Con International, Inc. Pipe connector structure. 4,687,233, 8-18-87, Cl. 285-55.000.

Edwards, William J.: *See—*
Teoh, Eam K.; Goodwin, Graham C.; and Edwards, William J., 4,691,547, Cl. 72-16.000.

Edwardson, Svante R., to AB Dentatus. Quick mount face-bow device for an articulator. 4,695,252, 9-22-87, Cl. 433-73.000.

EEE Corporation: *See—*
Shuman, Bernard E., 4,677,780, Cl. 40-600.000.

EEM Rachanski Enterprises, Inc.: *See—*
Rachanski, Michael A., 4,651,596, Cl. 81-53.200.

Eer Nisse, Errol P., to Quartztronics, Inc. AT-cut crystal resonator pressure transducer. 4,660,420, 4-28-87, Cl. 73-702.000.

Eerkens, Jeff W.: *See—*

Lee, Wei-long W.; Dorich, Michael J.; and Eerkens, Jeff W., 4,649,545, Cl. 372-61.000.

Eerola, Matti V., to Raute Oy. Suction-lifting conveyor for transfer for sheet-shaped objects. 4,637,599, 1-20-87, Cl. 271-5.000.

Eertink, Bastiaan B. Apparatus for cleaning waste water. 4,655,918, 4-7-87, Cl. 210-199.000.

Eesley, Gary L.; Mance, Andrew M.; and Meyer, Martin S., to General Motors Corporation. Wire-glass composite and method of making same. 4,637,862, 1-20-87, Cl. 204-15.000.

EFAFLEX Transport-und-Lager-Technik GmbH: *See—*

Rejc, Gabriel, 4,655,019, Cl. 52-475.000.

Efamol Limited: *See—*

Horrobin, David F.; Manku, Mehar S.; and Huang, Yung S., 4,666,701, Cl. 424-10.000.

Horrobin, David F., 4,681,896, Cl. 514-552.000.

EFB Inc.: *See—*

Alexander, Jeffrey; and Zahedi, Karim, 4,668,489, Cl. 423-240.000.

Efco Manufacturing Company Pty. Limited: *See—*

Luker, Graham J., 4,682,799, Cl. 292-169.150.

Effe Elle S.p.A.: *See—*

Dragone, Vincenzo, 4,667,724, Cl. 160-229.00R.

Effelsberg, Heinz: *See—*

Coenen, Hubert; Effelsberg, Heinz; and Hagen, Rainer, 4,652,686, Cl. 585-240.000.

Effem GmbH: *See—*

Kiel, Hans R., 4,685,276, Cl. 53-459.600.

Effenberger, Alfred: *See—*

Mehnert, Johannes; and Effenberger, Alfred, 4,652,229, Cl. 425-528.000.

Effenberger, Franz; Kuhlwein, Jurgen; and Drauz, Karlheinz, to Degussa Aktiengesellschaft. Process for the production of 2-isocyanato-2,3-dehydrocarboxylic acid esters. 4,661,626, 4-28-87, Cl. 560-343.000.

Effenberger, John A.; Ribbans, Robert C., III; and Keese, Frank M., to Chemical Fabrics Corporation. Novel wear resistant fluoropolymer-containing flexible composites and method for preparation thereof. 4,654,235, 3-31-87, Cl. 427-407.300.

Effenberger, Leo T. Actuator mount for valves. 4,633,897, 1-6-87, Cl. 137-315.000.

Efferding, Larry E.: *See—*

Machado, Octavio J.; Daugherty, David A.; Andrews, Ronnie H.; and Efferding, Larry E., 4,711,758, Cl. 376-272.000.

Effland, Richard C.; Davis, Larry; and Kapples, Kevin J., to Hoechst-Roussel Pharmaceuticals Inc. 11-substituted 5H,11H-pyrrolo(2,1-C)(1,4)benzoxazepines as antipsychotic and analgesic agents. 4,667,039, 5-19-87, Cl. 546-208.000.

Effland, Richard C.; Davis, Larry; and Kapples, Kevin J., to Hoechst-Roussel Pharmaceuticals Inc. 11-substituted 5H,11H-pyrrolo[2,1-c][1,4]benzoxazepines as antipsychotic and analgesic agents. 4,681,879, 7-21-87, Cl. 514-211.000.

Effler, Kenneth T.; and Miner, Douglas H., to Nike, Inc. Baseball shoe with improved outsole. 4,667,425, 5-26-87, Cl. 36-126.000.

Efird, Lee A.: *See—*

London, J. Reid; Bell, Cecil R., Jr.; Edwards, A. Russell; Lathery, Willie M.; Efird, Lee A.; Porter, Richard M.; Shaw, Stephen K.; Costello, Thomas J.; Pike, August A.; Bell, Donald G.; and Setliff, Harold, 4,640,162, Cl. 83-152.000.

London, J. Reid; Bell, Cecil R., Jr.; Edwards, A. Russell; Lathery, Willie M.; Efird, Lee A.; Porter, Richard M.; Shaw, Stephen K.; Costello, Thomas J.; Pike, August A.; Bell, Donald G.; and Setliff, Harold, 4,704,976, Cl. 112-262.200.

EFKA-Werke Fritz Kiehn GmbH: *See—*

Ruppert, Heinrich W.; and Gatschmann, Klaus, 4,658,837, Cl. 131-70.000.

Eflab Oy: *See—*

Sandholm, Markus, 4,659,656, Cl. 435-7.000.

Efner, Howard F.: *See—*

Parrott, Stephen L.; Kukes, Simon G.; and Efner, Howard F., 4,636,487, Cl. 502-168.000.

Efron, Edward; McPherson, James O.; and Kim, Young B., to Discovision Associates. Characterizing the information transfer characteristics of a recording medium. 4,682,246, 7-21-87, Cl. 358-335.000.

Efron, Edward. Computerized studio for motion picture film and television production. 4,689,683, 8-25-87, Cl. 358-185.000.

Efron, Uzi; and Soffer, Bernard H., to Hughes Aircraft Company. Dual liquid-crystal cell-based visible-to-infrared dynamic image converter. 4,679,910, 7-14-87, Cl. 350-335.000.

Efron, Uzi: *See—*

Soffer, Bernard H.; Efron, Uzi; and Marom, Emanuel, 4,686,647, Cl. 364-850.000.

Efros, Boris. Wide powerful range bicycle. 4,666,174, 5-19-87, Cl. 280-258.000.

Efrudec GmbH: *See—*

Wunsch, Erich, 4,640,590, Cl. 350-632.000.

Efstathiou, John D.; Dechaine, Robert; and Zoss, Robert, to General Mills, Inc. Low-acid juice-milk beverages, juice and milk components therefor and methods of preparation. 4,676,988, 6-30-87, Cl. 426-271.000.

EG&G, Inc.: *See—*

Hood, Donald W.; Johnson, John A.; and Smartt, Herschel B., 4,712,722, Cl. 228-104.000.

EG&G Ocean Products, Inc.: *See—*

Brown, Neil L., 4,652,830, Cl. 324-439.000.

EG&G Sealol, Inc.: *See—*

Riccitelli, Constantino, 4,669,739, Cl. 277-89.000.

Vassalotti, Michele, 4,664,586, Cl. 414-590.000.

Egami, Hidemi; Kan, Fumitaka; Hosoi, Atsushi; Tajima, Hatsuo; Nakamura, Shunji; and Nakahata, Kimio, to Canon Kabushiki Kaisha. Developing apparatus. 4,660,958, 4-28-87, Cl. 355-3.0DD.

Egami, Hidemi: *See—*

Hosoi, Atsushi; Kan, Fumitaka; Egami, Hidemi; Tajima, Hatsuo; Nakamura, Shunji; and Nakahata, Kimio, 4,637,706, Cl. 355-3.0DD.

Hosono, Nagao; Nagase, Yukio; Takeuchi, Tatsuo; Egami, Hidemi; and Satomura, Hiroshi, 4,709,298, Cl. 361-213.000.

Inaba, Yutaka; Satomura, Hiroshi; Nagase, Yukio; Takeuchi, Tatsuo; Egami, Hidemi; and Hosaka, Akihito, 4,697,196, Cl. 346-159.000.

Nagase, Yukio; Egami, Hidemi; Takeuchi, Tatsuo; and Satomura, Hiroshi, 4,700,261, Cl. 361-225.000.

Nakamura, Shunji; Kan, Fumitaka; Egami, Hidemi; Hosoi, Atsushi; Tajima, Hatsuo; and Nakahata, Kimio, 4,638,760, Cl. 118-658.000.

Satomura, Hiroshi; Takeuchi, Tatsuo; Egami, Hidemi; Nagase, Yukio; and Hosono, Nagao, 4,674,857, Cl. 355-3.00R.

Tajima, Hatsuo; Nakahata, Kimio; Egami, Hidemi; Kan, Fumitaka; and Hosoi, Atsushi, 4,669,852, Cl. 355-3.0DD.

Egami, Kazunari; Umeda, Tetsuo; and Nishijima, Yasuo, to NEC Corporation. Binary character signal producing apparatus. 4,675,9 6-23-87, Cl. 382-50.000.

Egami, Koji: *See—*

Ogura, Atsushi; and Egami, Koji, 4,643,950, Cl. 428-446.000.

Egami, Masaki, to NTN-Rulon Industries Co., Ltd. Resinous compositions having lubricity. 4,703,075, 10-27-87, Cl. 524-269.000.

Egami, Noritaka, to Mitsubishi Denki Kabushiki Kaisha. Remote repeater in transmission bus system. 4,700,342, 10-13-87, Cl. 370-85.000.

Egami, Tsuneyuki; Saito, Tsutomu; Kohama, Tokio; Saito, Kimitaka; Sato, Kunihiko; and Takahashi, Hiroshi, to Nippon Soken Inc.; and Toyota Jidosha Kabushiki Kaisha. System for controlling air-fuel ratio in an internal combustion engine. 4,635,200, 1-6-87, Cl. 364-431.050.

Egami, Tsuneyuki; Saito, Tsutomu; Ando, Mitosi; Hori, Ryuzou; Kamo, Takashi; and Yoshida, Kazunori, to Nippon Soken, Inc.; and Toyota Jidosha Kabushiki Kaisha. Coating quality measuring device. 4,636,648, 1-13-87, Cl. 250-571.000.

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Egami, Tsuneyuki: *See—*

Miyaki, Masahiko; and Egami, Tsuneyuki, 4,642,773, Cl. 364-431.050.

Mori, Satoshi; Egami, Tsuneyuki; Mori, Kouichi; Nohira, Hidetaka; and Yoshimura, Kunimasa, 4,661,695, Cl. 250-227.000.

Saito, Tsutomu; Egami, Tsuneyuki; Kohama, Tokio; Saito, Kimitaka; Takahashi, Hiroshi; and Sato, Kunihiko, 4,633,840, Cl. 123-489.000.

Egan, Joseph W.: *See—*

McGhee, James B.; Egan, Joseph W.; and Hill, Leslie C., 4,700,88 Cl. 236-25.00R.

Egan, Kulwant: *See—*

Krishna, Surinder; and Egan, Kulwant, 4,648,909, Cl. 148-1.500.

Egan, Michael: *See—*

Murphy, John; McMullin, Francis; Egan, Michael; and Brosnan, Michael, 4,661,756, Cl. 318-701.000.

Murphy, John; McMullin, Francis; Egan, Michael; Byrne, John V.; and Kenneally, Patrick, 4,682,093, Cl. 318-701.000.

Egan, Mike: *See—*

Clark, Jeffrey; Finger, David; Vanover, Ron; and Egan, Mike, 4,659,288, Cl. 416-186.00R.

Egan, Philip A., to Olin Corporation. Non-ionic carbohydrate based surfactants. 4,663,444, 5-5-87, Cl. 536-4.100.

Egan, Richard R.: *See—*

Drozd, Joseph C.; and Egan, Richard R., 4,668,423, Cl. 252-174.210.

Egan, Terence: *See—*

Hulse, Anthony J.; Hulse, Neville G.; and Egan, Terence, 4,635,692, Cl. 144-286.00R.

Egashira, Yoshinori: *See—*

Tomita, Seisuke; and Egashira, Yoshinori, 4,696,475, Cl. 273-227.000.

Egawa, Akira; and Noudomi, Ryoichi, to Kabushiki Kaisha Komatsu Seisakusho. Laser device of AC discharge excitation type. 4,706,25 11-10-87, Cl. 372-38.000.

Egawa, Akira: *See—*

Kodaira, Takanori; Egawa, Akira; and Namai, Akihiro, 4,671,639, Cl. 354-400.000.

Kodaira, Takanori; Namai, Akihiro; and Egawa, Akira, 4,684,23 Cl. 354-400.000.

Kodaira, Takanori; and Egawa, Akira, 4,708,454, Cl. 354-422.000.

Namai, Akihiro; Egawa, Akira; and Kodaira, Takanori, 4,653,892, Cl. 354-400.000.

Namai, Akihiro; Egawa, Akira; and Kodaira, Takanori, 4,710,01 Cl. 354-400.000.

Egawa, Hideharu; and Okumura, Katsuya, to Kabushiki Kaisha Toshiba. Method of wire bonding with applied insulative coating. 4,678,114, 7-7-87, Cl. 228-176.000.

Egawa, Jiro: *See—*

Yamashita, Mitsuo; Tomimori, Kiyoshi; and Egawa, Jiro, 4,669,717, Cl. 271-186.000.

Egawa, Mitsuo: *See*—
  Ninomiya, Kunihiro; Nitta, Issei; Tobe, Akihiro; Egawa, Mitsuo; and Kikumoto, Ryoji, 4,695,568, Cl. 514-258.000.

Egawa, Satoshi: *See*—
  Miyawaki, Yoshinori; Ueno, Satoshi; Egawa, Satoshi; and Shirasaki, Osamu, 4,703,760, Cl. 128-681.000.

Egawa, Takashi; and Sano, Yoshiaki, to Oki Electric Industry Co., Ltd. Method of heat treatment for reduction of dislocation density near III-V substrate surface. 4,713,354, 12-15-87, Cl. 437-22.000.

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  Akada, Yasuaki; Ishikawa, Norio; Egawa, Takeshi; and Taniguchi, Nobuyuki, 4,671,640, Cl. 354-402.000.
  Matsui, Tohru; and Egawa, Takeshi, 4,690,538, Cl. 354-403.000.

Egawa, Tsuneo: *See*—
  Ideue, Kazuo; Oya, Masashi; Hayashi, Kanji; Egawa, Tsuneo; Shimazutsu, Hiroaki; Ibushi, Junichi; Yamamoto, Kunio; Miyaguchi, Kanehisa; and Doho, Tamenari, 4,671,017, Cl. 51-45.000.

Egawa, Yoshinori, to Yamaichi Electric Mfg. Co., Ltd. IC package connector. 4,679,871, 7-14-87, Cl. 439-70.000.

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Egberg, David C.: *See*—
  Seaborne, Jonathan; and Egberg, David C., 4,[illegible]1,359, Cl. 426-89.000.
  Seaborne, Jonathan; and Egberg, David C., 4,710,228, Cl. 106-218.000.

Egbers, Gerhard: *See*—
  Artzt, Peter; Egbers, Gerhard; and Rottmayr, Hans, 4,633,660, Cl. 57-263.000.
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  Johnson, Richard C.; and Egbert, Leigh B., 4,635,713, Cl. 165-134.100.

Ege Westin AB: *See*—
  Westin, Jan E., 4,665,585, Cl. 16-302.000.

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  Robinson, Albert H., Jr.; and Egee, Walter W., deceased, 4,636,395, Cl. 426-511.000.

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  Meinecke, Albrecht; Schmid, Hans-Rainer; and Egelhof, Dieter, 4,684,444, Cl. 162-380.000.

Egeli, Finn: *See*—
  Andreasson, Eva M.; Egeli, Finn; Holmberg, Krister A.; Nystrom, Borje; Stridh, Kjell G.; and Osterberg, Eva M., 4,650,000, Cl. 166-307.000.

Egenhoffer, Otto: *See*—
  Toth, Jeno; Szeles, Jozsef; and Egenhoffer, Otto, 4,676,918, Cl. 252-70.000.

Eger, Georg, to Dr. Ing. H.c.F. Porsche Aktiengesellschaft. Vehicle body support structure. 4,657,301, 4-14-87, Cl. 296-188.000.

Eger, Georg; and Srock, Rainer, to Dr. Ing. h.c.F. Porsche Aktiengesellschaft. Control mechanism for a door of a motor vehicle with a reciprocating safety valve. 4,689,849, 9-1-87, Cl. 16-82.000.

Eger, Georg: *See*—
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Eger, Wolfgang; and Scheiblhofer, Gerhard, to Voest-Alpine Aktiengesellschaft. Plasma torch. 4,650,953, 3-17-87, Cl. 219-121.0PQ.

Egerdahl, Raymond H. Combined drop and broadcast spreader for granular material. 4,712,717, 12-15-87, Cl. 222-252.000.

Egerer, Josef, to Staedtler & Uhl. Drawhead for drawing equipment for drawing woolen fleece or the like. 4,635,323, 1-13-87, Cl. 19-129.00R.

Egerer, Peter; Crueger, Wulf; and Golker, Christian, to Bayer Aktiengesellschaft. Immobilization of cells and enzymes. 4,681,843, 7-21-87, Cl. 435-41.000.

Egerod, Eskel, to Telefonaktiebolaget LM Ericsson. Apparatus for obtaining an enlarged image of a portion of the field of view of an infra-red camera. 4,677,297, 6-30-87, Cl. 250-334.000.

Egert, Allen C.; Casey, Charles J.; and Negro, Claudio P., to Wingaersheek Division of Victor Equipment Co. Cam-actuated diaphragm valve. 4,667,931, 5-26-87, Cl. 251-340.000.

Egerton Hospital Equipment Limited: *See*—
  Thompson, Martin S., 4,658,450, Cl. 5-61.000.

Egeto, Csaba; Szalay, Zoltan; Dorombosy, Bela; and Krauz, Karoly, to Nikex Nehezipari Kulkereskedelmi. Antifriction bearing block especially for bearing support of rollers of belt conveyor. 4,668,110, 5-26-87, Cl. 384-536.000.

Eggebrecht, Lewis C.; and Kummer, David A., to International Business Machines Corp. Extended addressing apparatus and method for direct storage access devices. 4,658,350, 4-14-87, Cl. 364-200.000.

Eggemar, Bengt V. Arena floor and flooring element. 4,703,597, 11-3-87, Cl. 52-220.000.

Eggenberger, John S.; and Patel, Arvind M., to International Business Machines Corporation. Method and apparatus for implementing optimum PRML codes. 4,707,681, 11-17-87, Cl. 340-347.0DD.

Egger, Eugene R., to C.T.S. Power Services, Inc. Nuclear reactor visual inspection system. 4,668,981, 5-26-87, Cl. 358-100.000.

Egger, Eugene R.; and Sherman, Harold, to C.T.S. Consulting Personnel Svcs., Inc. Apparatus for performing internal inspection of piping. 4,675,728, 6-23-87, Cl. 358-100.000.

Egger, Friedrich; and Gautschi, Andreas, to Gebrueder Buehler AG. Temperature-controlling machine. 4,688,336, 8-25-87, Cl. 34-109.000.

Egger, Hans R., to Intradym Maschinen AG. Method of and apparatus for conveying powdered or granular material. 4,681,484, 7-21-87, Cl. 406-63.000.

Egger, Joseph; and Sedlak, Adolf, to Timex Corporation. Base element for a wristwatch. 4,657,408, 4-14-87, Cl. 368-317.000.

Egger, Peter: *See*—
  Bors, Hans; Egger, Peter; Gotz, Albert; and Schwemmer, Martin, 4,672,705, Cl. 8-151.000.

Eggerichs, Terry L.: *See*—
  Stickler, Raymond E.; Eggerichs, Terry L.; and Larson, Kenneth J., 4,659,479, Cl. 210-695.000.

Eggermont, Marc: *See*—
  Tack, Rufin; and Eggermont, Marc, 4,715,556, Cl. 242-118.600.

Eggers, Eugene A.; and Summa, William J., to International Business Machines Corporation. Continuous process for the manufacture of printed circuit boards. 4,659,425, 4-21-87, Cl. 156-630.000.

Eggers, Mark L., to KW Battery Company. Tubular plate electrode slurry filling process and apparatus for lead-acid cells. 4,678,730, 7-7-87, Cl. 429-140.000.

Eggers, Rudolf; and Schade, Ernst-Gunter, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Process and apparatus for the recovery of fats and oils. 4,675,133, 6-23-87, Cl. 260-412.200.

Eggersdorfer, Manfred: *See*—
  Fritz, Gerhard; Eggersdorfer, Manfred; and Siegel, Hardo, 4,707,549, Cl. 544-336.000.

Eggerstedt, Paul: *See*—
  Zievers, James F.; and Eggerstedt, Paul, 4,664,752, Cl. 203-10.000.
  Zievers, James F.; and Eggerstedt, Paul, 4,713,174, Cl. 210-233.000.

Eggert, Albert; Montag, Jurgen; Muller, Manfred; and Wiener, Peter, to Robert Bosch GmbH. Miniature hearing aid. 4,672,672, 6-9-87, Cl. 381-69.000.

Eggert, Albert: *See*—
  Kopke, Wolfgang; Eggert, Albert; Wiener, Peter; Gotze, Gerd-Wolfgang; and Maas, Rainer, 4,689,820, Cl. 381-68.000.

Eggert, Dennis J.; Hendrix, Charles E.; and Krinsky, Barnet, to Hughes Aircraft Company. Direction finding interferometer. 4,638,320, 1-20-87, Cl. 342-442.000.

Eggert, Horst; and Olsen, Willi, to Siemens Aktiengesellschaft. Protective device for preventing blowout of bushing in high-voltage switching installation. 4,709,291, 11-24-87, Cl. 361-2.000.

Eggert, Ulrich, to Ford Motor Company. Control valve system for a continuously variable belt drive. 4,693,144, 9-15-87, Cl. 74-868.000.

Eggert, Walter S., Jr., to Budd Company, The. Truck for a railway car. 4,674,413, 6-23-87, Cl. 105-224.050.

Eggert, Walter S., Jr.: *See*—
  Freeman, Richard B.; and Eggert, Walter S., Jr., 4,633,626, Cl. 52-71.000.
  Freeman, Richard B.; Goetz, Charles W.; and Eggert, Walter S., Jr., 4,712,710, Cl. 220-414.000.
  Pavlick, Michael J.; McQueston, James C.; Eggert, Walter S., Jr.; and Sherrow, Lionel, 4,715,292, Cl. 105-456.000.

Eggimann, Bernhard; Hochuli, Erich; and Schacher, Alfred, to Hoffmann-La Roche Inc. Adsorbent for protein purification. 4,716,219, 12-29-87, Cl. 530-413.000.

Eggler, James F.; Johnson, Michael R.; and Melvin, Lawrence S., Jr., to Pfizer Inc. Substituted dodecahydrotripheylenes, and decahydropyrrolo[1,2-f]phenanthridines as CNS agents. 4,642,373, 2-10-87, Cl. 560-139.000.

Eggler, James F.; Johnson, Michael R.; and Melvin, Lawrence S., Jr., to Pfizer Inc. Benzopyrans. 4,680,404, 7-14-87, Cl. 546-269.000.

Eggler, James F.; Holland, Gerald F.; Johnson, Mickael R.; and Volkmann, Robert A., to Pfizer Inc. Hypoglycemic thiazolidinediones. 4,703,052, 10-27-87, Cl. 514-337.000.

Eggleston, Dean E., to Central Plastics Company. Thermoplastic fitting electric welding method and apparatus. 4,684,789, 8-4-87, Cl. 219-497.000.

Eggleston, Ross W.: *See*—
  Thomas, Richard A.; and Eggleston, Ross W., 4,673,288, Cl. 356-72.000.

Egis Gyogyszergyar: *See*—
  Berenyi nee Poldermann, Edit; Varga, Laszlo; Pallos, Laszlo; Petocz, Lujza; Ladanyi, Laszlo; Tompe, Peter; Hartai nee Zsorzs, Eva; and Kovacs nee Palotai, Agnes, 4,652,562, Cl. 514-237.000.
  Lempert, Karoly; Hornyak, Gyula; Bartha, Ferenc; Doleschall, Gabor; Fetter, Jozsef; Nyitrai, Jozsef; Simig, Gyula; Zauer, Karoly; Huszthy, Peter; Feller, Antal; Petocz, Lujza; Szirt, Eniko; Grasser, Katalin; Berenyi, Edit; Orr, Zsuzsanna; and Pjeczka, Etelka, 4,665,083, Cl. 514-370.000.

Egitto, Frank D.; Emmi, Francis; Mlynko, Walter E.; and Susko, Robin A., to International Business Machines Corporation. Process for removing contaminant. 4,654,115, 3-31-87, Cl. 156-643.000.

Egle, Elmar: *See*—
  Kraus, Ulrich; Egle, Elmar; and Schmude, Leonhard, 4,655,308, Cl. 180-78.000.

Egle, Lawrence E., to Eaton Corporation. Exhaust gas recirculation control system. 4,690,120, 9-1-87, Cl. 123-571.000.

Egler, Gerhard: *See*—
  Beckinger, Gunther; Egler, Gerhard; and Rambold, Thomas, 4,694,452, Cl. 370-58.000.

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Egli, Alwin, to SIG Schweizerische Industrie-Gesellschaft. Method and apparatus for fine-dosing bulk material. 4,662,409, 5-5-87, Cl. 141-1.000.

Egli, Annmarie O.; and St. Clair, Terry L., to United States of America, National Aeronautics and Space Administration. Semi-2-interpenetrating networks of high temperature systems. 4,695,610, 9-22-87, Cl. 525-426.000.

Egli, Werner, to Armaturenfabrik Wallisellen AG. Single-lever mixing fixture. 4,705,072, 11-10-87, Cl. 137-625.170.

Egli, Werner H.; and Weber, Mark W., to Honeywell Inc. Discriminant apparatus for ring laser angular rate sensors. 4,637,723, 1-20-87, Cl. 356-350.000.

Egli, Werner H., to Honeywell Inc. Discriminant apparatus for a ring laser angular rate sensor. 4,648,716, 3-10-87, Cl. 356-350.000.

Egli, Werner H., to Honeywell Inc. Lock-in rate discriminate apparatus for ring laser angular rate sensors. 4,657,392, 4-14-87, Cl. 356-350.000.

Egli, Werner H.; Miller, John W.; and Setterholm, Jeffrey M., to Honeywell Inc. Method and apparatus for determining location and orientation of objects. 4,672,562, 6-9-87, Cl. 364-559.000.

Egli, Werner H.; Miller, John W.; and Setterholm, Jeffrey M., to Honeywell Inc. Method and apparatus for determining location and orientation of objects. 4,672,564, 6-9-87, Cl. 364-559.000.

Egli, Werner H., to Honeywell Inc. Error cancelling bias system. 4,695,160, 9-22-87, Cl. 356-350.000.

Eglise, David; and Lewis, Adrian, to Mars Incorporated. Tokens and token handling devices. 4,674,618, 6-23-87, Cl. 194-210.000.

Egly, Robert A. Diskette storage container. 4,684,019, 8-4-87, Cl. 206-309.000.

Egner, Robert J.: *See—*

Seiz, Frederick G.; Seiz, Carl G.; and Egner, Robert J., 4,687,404, Cl. 414-276.000.

Egner, Walter A.; and Collins, Daniel R., to AMP Incorporated. Frangible pulling bullet. 4,684,161, 8-4-87, Cl. 294-1.100.

Egner-Walter, Bruno; Schmid, Eckhardt; and Scholl, Wolfgang, to SWF Auto-Electric GmbH. Windshield wiper system. 4,641,389, 2-10-87, Cl. 15-250.210.

Egner-Walter, Bruno; Neubauer, Walter; Schmid, Eckhardt; and Scholl, Wolfgang, to SWF Auto-Electric GmbH. Device for a reciprocating wiper system. 4,648,148, 3-10-87, Cl. 15-250.210.

Egnor, Richard. Inflatable rubber blasting hole plug. 4,660,644, 4-28-87, Cl. 166-285.000.

EGO Elektro-Gerate Blanc u. Fischer: *See—*

Essig, Willi; Kicherer, Robert; and Mayer, Hans, 4,715,569, Cl. 248-27.100.

Kicherer, Robert; and Reif, Stefan, 4,658,118, Cl. 219-451.000.

Kicherer, Robert; Schreder, Felix; and Dorner, Leonhard, 4,713,527, Cl. 219-464.000.

Ego, Toyokazu: *See—*

Murakami, Saburo; Kinashi, Shoji; and Ego, Toyokazu, 4,710,333, Cl. 264-73.000.

EgoKiefer AG: *See—*

Liebl, Rudolf; and Bosshard, Ernst, 4,705,469, Cl. 425-117.000.

Egon, Janosdeak; Tibor, Gergely; and Janos, Szabo, to Autoipari Kutato es Fejleszto Vallalat. Brake lining, particularly for a vehicle drum brake. 4,708,226, 11-24-87, Cl. 188-251.00A.

Egorova, Eleonora V.: *See—*

Fedorov, Svyatoslav N.; Egorova, Eleonora V.; Nanushyan, Sergei R.; Chernyshev, Evgeny A.; Spiridonov, Oleg P.; Benenson, Igor L.; Polivanov, Alexandr N.; Shapatin, Anatoly S.; and Karavaev, Alexandr A., 4,647,282, Cl. 623-4.000.

Semenov, Pavel A.; Fedorov, Svyatoslav N.; Mironova, Emilia M.; and Egorova, Eleonora V., 4,653,001, Cl. 364-415.000.

Egozi, Avihay, to Elscint Ltd. Patient operator intercom arrangements for magnetic resonance imaging systems. 4,696,030, 9-22-87, Cl. 379-167.000.

Egri, Janos: *See—*

Bezzegh, Denes; Magyar, Karoly; Kelemen, Jozsef; Zalai, Gabor; Mandi, Attila; and Egri, Janos, 4,680,315, Cl. 514-738.000.

Egri, Laszlo, to Tamag Basel AG. Method and apparatus for the volume expansion of tobacco. 4,646,760, 3-3-87, Cl. 131-296.000.

Eguchi, Hajime; Kataoka, Jiro; and Takahashi, Masahiro, to Ajinomoto Co., Inc. Method of producing a seasoning from cheese whey. 4,699,793, 10-13-87, Cl. 426-41.000.

Eguchi, Hirotugu, to Nippon Electric Co., Ltd. High speed-low power consuming IGFET integrated circuit. 4,635,088, 1-6-87, Cl. 357-41.000.

Eguchi, Isamu: *See—*

Mitsukuchi, Kunio; Ito, Hiromitsu; Eguchi, Isamu; Hirasato, Bunji; and Furuhata, Takashi, 4,701,583, Cl. 200-148.00B.

Eguchi, Kazutoshi, to Tokyo Shibaura Denki Kabushiki Kaisha. Data transfer control system. 4,646,230, 2-24-87, Cl. 364-200.000.

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Ishikawa, Tadashi; and Eguchi, Kazutoshi, 4,707,799, Cl. 364-771.000.

Eguchi, Keiji; and Komatsu, Kunito, to JEOL Ltd. Nuclear magnetic resonance spectrometer. 4,652,827, 3-24-87, Cl. 324-322.000.

Eguchi, Ken; Kawada, Haruki; and Nishimura, Yukuo, to Canon Kabushiki Kaisha. Electroluminescent device. 4,672,265, 6-9-87, Cl. 313-504.000.

Eguchi, Ken; Matsuda, Hiroshi; Haruta, Masahiro; Nishimura, Yukuo; Hirai, Yutaka; and Nakagiri, Takashi, to Canon Kabushiki Kaisha. Method of forming deposition film. 4,683,147, 7-28-87, Cl. 427-54.100.

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Eguchi, Ken: *See—*

Hirai, Yutaka; Matsuda, Hiroshi; Eguchi, Ken; Haruta, Masahiro Nishimura, Yukuo; and Nakagiri, Takashi, 4,683,146, C 427-54.100.

Matsuda, Hiroshi; Haruta, Masahiro; Hirai, Yutaka; Nishimura Yukuo; Eguchi, Ken; and Nakagiri, Takashi, 4,693,915, C 427-256.000.

Miyazaki, Toshihiko; Sugawa, Etsuko; Tomida, Yoshinor Munakata, Hirohide; Nishimura, Yukuo; and Eguchi, Ken 4,674,436, Cl. 118-402.000.

Nishimura, Yukuo; Eguchi, Ken; Matsuda, Hiroshi; Haruta Masahiro; Hirai, Yutaka; and Nakagiri, Takashi, 4,683,144, C 427-35.000.

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Saito, Kenji; Eguchi, Ken; Kawada, Haruki; Tomida, Yoshinor Nishimura, Yukuo; and Nakagiri, Takashi, 4,682,897, C 374-45.000.

Eguchi, Kiyoshi; Ishikawa, Takayoshi; Tamaru, Shigemi; Genba, Yas shi; and Sera, Tsutomu, to Mitsubishi Denki Kabushiki Kaisha. Te minal connecting device for pulling-type breaker. 4,655,538, 4-7-8 Cl. 339-255.00P.

Eguchi, Kouji: *See—*

Okamoto, Tatsuo; Eguchi, Kouji; and Oosaki, Saburou, 4,710,79 Cl. 357-23.600.

Eguchi, Mamoru: *See—*

Shibata, Masato; Eguchi, Mamoru; and Kondo, Yoshihi 4,637,200, Cl. 53-551.000.

Eguchi, Masaharu; and Kiuchi, Masayoshi, to Canon Kabushiki Kaisha. Display device for a camera. 4,697,900, 10-6-87, Cl. 354-215.000.

Eguchi, Masaharu; Tosaka, Yoichi; Ohnuki, Ichiro; Aihara, Yoshihiko; and Ishizaki, Akira, to Canon Kabushiki Kaisha. Film data reading device. 4,714,332, 12-22-87, Cl. 354-21.000.

Eguchi, Masaharu: *See—*

Ohnuki, Ichiro; Aihara, Yoshihiko; Tosaka, Yoichi; and Eguchi, Masaharu, 4,693,574, Cl. 354-21.000.

Eguchi, Shinsuke, to Nissan Motor Co., Ltd. Volume control device fo variable volume pump for automatic transmission. 4,658,582, 4-21-8 Cl. 60-357.000.

Eguchi, Tadashi: *See—*

Migita, Yoshihiro; Eguchi, Tadashi; Kumazawa, Yukina Nakagami, Jozi; Amano, Takehiro; Sota, Kaoru; and Sakakibar Jinsaku, 4,686,292, Cl. 544-343.000.

Watanabe, Yoshiaki; Morimoto, Shigeo; Goi, Masami; Mitsukuchi Morihiro; Adachi, Takashi; Nakagami, Jozi; Asaka, Toshifumi Eguchi, Tadashi; and Sota, Kaoru, 4,672,109, Cl. 536-7.200.

Eguchi, Takeo, to Sony Corporation. Method and apparatus for recording and reproducing an information signal with a larger tape wrapping angle. 4,636,873, 1-13-87, Cl. 360-8.000.

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Nanao, Tsutomu; and Eguchi, Tamiyuki, 4,668,299, C 106-309.000.

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Hasegawa, Kenji; Nakashima, Koichi; Eguchi, Tohru; and Ou Masako, 4,701,320, Cl. 424-54.000.

Eguchi, Yasukata; Hara, Kazumasa; and Hisatake, Michio, to Janome Sewing Machine Co. Ltd. Device for regulating upper thread tensio of a sewing machine. 4,690,082, 9-1-87, Cl. 112-254.000.

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Eguchi, Yasuteru; Yorozu, Hidenori; and Iijima, Eiji, to Kao Corpora tion. Gas-emitting bath additive composition. 4,650,667, 3-17-87, C 424-44.000.

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Hara, Kenji; and Eguchi, Yasuteru, 4,657,691, Cl. 252-91.000.

Eguchi, Yoshio; and Yamada, Atsushi, to Nippon Paint Co., Ltd. Acrylic resin composition for use in high solids paints. 4,687,82 8-18-87, Cl. 526-265.000.

Eguchi, Yoshio: *See—*

Miyazono, Tadafumi; Eguchi, Yoshio; Ogino, Akiharu; Sawada Haruhiko; and Okude, Yoshitaka, 4,714,634, Cl. 427-409.000.

Tsutsui, Koichi; Eguchi, Yoshio; and Kataoka, Hiroyosh 4,659,795, Cl. 526-301.000.

Eguma, Chikashi: *See—*

Nishimori, Shozo; and Eguma, Chikashi, 4,707,263, C 210-484.000.

Egusa, Sumio: *See—*

Iio, Tukasa; and Egusa, Sumio, 4,700,271, Cl. 361-355.000.

Egyhazi nee Csizmadia, Eva: *See—*

Gorog nee Privitzer, Katalin; Bodnar, Laszlo; Dudar, Erzsebe Kocsis nee Bagi, Maria; Gaal, Sandor; Tasnadi, Marta; Egyha nee Csizmadia, Eva; Varga, Valeria M.; Kajati, Istvan; K Gyorgy; Molnar, Janos; Toth, Bertalan; Cserhati nee Botk Ilona; Kaptas, Tibor; and Csete, Sandor, 4,661,477, C 514-76.000.

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Bezzegh, Denes; Fekete, Pal; Toth, Zoltan; Bor, Ilona; and Fellner, Erzsebet, 4,647,599, Cl. 523-105.000.

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Toth, Miklos; Endresz, Valeria; Beladi, Ilona; and Toth, Sandor, 4,696,899, Cl. 435-68.000.

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Knudson, Robert M.; and Ehrenfellner, Hubert, 4,643,860, Cl. 264-109.000.

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Ehrenfried, Ted R., to Treco Products Inc. Leg stretching apparatus. 4,647,040, 3-3-87, Cl. 272-126.000.

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Ehrlich, Daniel J.; Arnone, Claudio; and Rothschild, Mordecai, to Massachusetts Institute of Technology. Method and apparatus for photodeposition of films on surfaces. 4,668,528, 5-26-87, Cl. 427-53.100.

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Ehrlich, Donald J., to Wabash National Corporation. Trailer floor assembly. 4,703,948, 11-3-87, Cl. 280-782.000.

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Ehrlund, Ake, to Konstruktionsatelje AkeÅhrlund. Continuous strip of mutually hinged panels. 4,650,217, 3-17-87, Cl. 282-12.00A.

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Ehrreich, John E., to Ercon, Inc. One-component, particle-filled compositions. 4,683,082, 7-28-87, Cl. 252-506.000.

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Eian, Gilbert; and Cheney, Paul G., to Minnesota Mining and Manufacturing Company. Durable melt-blown fibrous sheet material. 4,681,801, 7-21-87, Cl. 428-283.000.

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Tung, Hsueh S.; Friedland, David J.; Sukornick, Bernard; McCurry, Lynn E.; Eibeck, Richard E.; and Lockyer, George D., 4,681,823, Cl. 429-218.000.

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Plantholt, Martin; Eiberger, Berthold; and Schroder, Hartmut, 4,661,839, Cl. 358-12.000.

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Hammer, Heinz; Eichenauer, Herbert; Roos, Ernst; and Jurgens, Eberhard, 4,699,972, Cl. 528-293.000.

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  Wang, Xian T.; and Eichenwald, Rolf, 4,709,199, Cl 318-696.000.

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  Schroder, Gunter; and Eichhhorn, Rudolf, 4,674,926, Cl 408-40.000.

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  Gliemeroth, Georg; Ross, Ludwig; Eichhorn, Uwe; Hoelzel, Eva G.; and Speit, Burkhard, 4,686,196, Cl 501-13.000.

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  Komives, Tamas; Dutka, Ferenc; Barta, Istvan; Jablonkai, Istvan; Hulesch, Agnes; Bihari, Ferenc; Eifert, Gyula; Bohus, Peter; Nagy, Mihaly; Bacskai, Gyorgy; and Kuronya, Istvan, 4,708,733, Cl 71-94.000.

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  Wada, Hiroshi; and Kosaka, Yuzo, 4,716,110, Cl. 435-25.000.

Eikenberry, Eric J.: *See—*
  Hemphill, John K.; and Eikenberry, Eric J., 4,684,612, Cl. 435-240.500.

Eikmeyer, Peter, to Feldmuehle Aktiengesellschaft. Apparatus for the inspection of continuous sheets of material. 4,634,281, 1-6-87, Cl. 356-431.000.

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Eikonix Corporation: *See—*
  Barrett, Douglas J., 4,701,809, Cl. 358-293.000.

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  Toase, Barry; and Grant, David, 4,667,782, Cl. 191-12.00R.

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  Barthomeuf, Jean-Claude S., 4,659,294, Cl. 417-397.000.

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Eimerl, David, to United States of America, Energy. Deuterated L-arginine phosphate monohydrate. 4,697,100, 9-29-87, Cl. 307-427.000.

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  Cheung, Kin L.; and Einarson, Jeffrey W., 4,685,082, Cl. 365-49.000.

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Eino, Teruo, to Olympus Optical Co., Ltd. Color image pickup device with complementary color type mosaic filter and gamma compensation means. 4,697,208, 9-29-87, Cl. 358-44.000.

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  Koch, Karl C.; and Einolf, Charles W., Jr., 4,679,111, Cl. 361-31.000.

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Einstabland, Tomas; and Opedal, Torlak, to Ingenior F. Selmer A/S Norway. Offshore platform structure having at least a superstructure and a substructure made of reinforced concrete. 4,688,967, 8-25-87, Cl. 405-222.000.

Einthoven, Willem G., to General Instrument Corporation. Schottky barrier device and method of manufacture. 4,638,551, 1-27-87, Cl. 29-571.000.

Einzinger, Josef; Fellinger, Christine; Leipold, Ludwig; Tihanyi, Jenoe; and Weber, Roland, to Siemens Aktiengesellschaft. High voltage MOSFET switch. 4,677,325, 6-30-87, Cl. 307-574.000.

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Eiraku, Yukio: *See—*
  Tozawa, Takashi; Endo, Masahiro; and Eiraku, Yukio, 4,665,059, Cl. 514-53.000.

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  Harigaya, Yasuji; Ogura, Hiroo; Mihara, Mitsuo; Yamanaka, Motosuke; and Yamatsu, Kiyomi, 4,661,630, Cl. 562-455.000.
  Hirama, Shinichi; Nishiyama, Toshio; Ohta, Youichi; Urata, Makoto; Tomita, Kenichi; Nakajima, Keisuke; and Furuse, Kazumaro, 4,713,397, Cl. 514-690.000.
  Igarashi, Toshiji, 4,707,477, Cl. 514-218.000.
  Minami, Norio; Mathukura, Masayuki; Ueda, Koichiro; Tanaka, Satoru; and Igarashi, Toshiji, 4,650,798, Cl. 514-227.000.
  Namba, Yuzaburo; and Kukisaki, Shigenari, 4,635,665, Cl. 134-167.00R.
  Saito, Isao; Nomoto, Seiichiro; Kamiya, Takashi; Yamauchi, Hiroshi; Sugiyama, Isao; Machida, Yoshimasa; and Negi, Shigeto, 4,698,336, Cl. 514-202.000.
  Tagaya, Ryosaku, 4,664,525, Cl. 356-428.000.
  Takada, Masahiro; Yuzuriha, Teruaki; Katayama, Kouichi; and Sunamoto, Junzo, 4,636,381, Cl. 424-38.000.
  Yamatsu, Isao; Inai, Yuichi; Abe, Shinya; Watanabe, Hideaki; Igarashi, Toshiji; Shiojiri, Hiroyuki; Tanabe, Yoshio; and Hara, Kumiko, 4,639,450, Cl. 514-238.000.
  Yamatsu, Isao; Inai, Yuichi; Abe, Shinya; Suzuki, Takeshi; Suzuki, Yoshikazu; Tagaya, Osamu; Suzuki, Kouichi; Abe, Kouichi; and Yamada, Kouji, 4,655,973, Cl. 260-404.000.
  Yamatsu, Isao; Abe, Shinya; Inai, Yuichi; Suzuki, Takeshi; Kinoshita, Kensaku; Mishima, Mannen; Katoh, Yoshinori; Kobayashi, Seiichi; Murakami, Manabu; and Yamada, Kouzi, 4,709,079, Cl. 560-66.000.
  Yoshino, Hiroshi; Tsuchiya, Yutaka; Kaneko, Takeru; Nakazawa, Takahiro; Ikeda, Masuhiro; Araki, Shin; Yamatsu, Kiyomi; Tachibana, Shinro; and Arakawa, Yoshihiro, 4,707,468, Cl. 514-16.000.

Eisele, Albert; Hess, Jurgen; and Krimmer, Erwin, to Robert Bosch GmbH. Central locking device for a plurality of closeable openings in the body of a motor vehicle. 4,647,087, 3-3-87, Cl. 292-45.000.

Eisele, Hermann: *See—*
  Dettling, Hubert; Eisele, Hermann; Haag, Gottlob; Hagel[illegible] Heinz; Linder, Ernst; and Polach, Wilhelm, 4,649,70[illegible], Cl. 60-275.000.
  Eckert, Konrad; Eisele, Hermann; Laufer, Helmut; and Straubel, Max, 4,655,184, Cl. 123-458.000.

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  Muller, Anton; Herdeg, Karl; Schinko, Hermann; Leyermann, Gunter; Kimmit, Richard; and Meyer, Frank, 4,671,418, Cl. 211-59.400.
  Wirth, Heinz, 4,703,976, Cl. 297-445.000.

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isenberg, Roselyn J.: *See—*
Cohen, Gary H.; and Eisenberg, Roselyn J., 4,709,011, Cl. 530-324.000.

Eisenberg, Sylvan, to Micro Tracers, Inc. Microingredient containing tracer. 4,654,165, 3-31-87, Cl. 252-408.100.

Eisenblaetter, Norbert: *See—*
Wuensche, Dieter; and Eisenblaetter, Norbert, 4,693,079, Cl. 60-320.000.

Eisenblatter, Gerd. Lamellar end grinding wheel. 4,679,360, 7-14-87, Cl. 51-337.000.

Eisenblatter, Jurgen: *See—*
Erlenkamper, Siegbert; and Eisenblatter, Jurgen, 4,676,098, Cl. 73-290.00V.

Eisenbraun, Allan A., to Ethyl Corporation. Process for making alkali metal aryloxides. 4,691,057, 9-1-87, Cl. 564-223.000.

Eisenhammer, Karl P. Attitude displacement measurement apparatus. 4,706,389, 11-17-87, Cl. 33-318.000.

Eisenhandler, Sanford: *See—*
Perlman, Stuart S.; Eisenhandler, Sanford; Lyons, Paul W.; and Shumila, Michael J., 4,682,230, Cl. 358-167.000.

Eisenhardt, Anne R., and Hansen, Ole M., to Radiometer A/S. Composition and sampling receptacle method for treating blood with anticoagulant. 4,687,000, 8-18-87, Cl. 128-760.000.

Eisenhauer, David P.: *See—*
Gerri, Edward J.; and Eisenhauer, David P., 4,642,634, Cl. 340-870.020.

Eisenhauer, Gary; and Simokat, Frank, to Brand-Rex Company. Single channel subscriber carrier system. 4,653,046, 3-24-87, Cl. 370-72.000.

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Eisenhawer, Stephen; Mulac, Anthony J.; Donaldson, A. Burl; and Fox, Ronald L., to Enhanced Energy Systems. Steam generator having a high pressure combustor with controlled thermal and mechanical stresses and utilizing pyrophoric ignition. 4,648,835, 3-10-87, Cl. 431-4.000.

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Eisenloeffel, Helmut, to Valco/Valley Tool & Die, Inc. Compression clamp for a picture frame. 4,694,598, 9-22-87, Cl. 40-155.000.

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Eisenlohr, Franz, to Sulzer Brothers Limited. Device for screening fluff from entering a shed. 4,682,633, 7-28-87, Cl. 139-1.00C.

Eisenlohr, Franz. Gauze or leno harness for weaving machines. 4,715,408, 12-29-87, Cl. 139-54.000.

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Bolte, Georg; and Schwarz, Helmut, 4,676,366, Cl. 198-803.800.

Eisenmann, Rolf, to Thyssen Industrie AG; and Schmiedetechnik/-Bergbautechnik. Forging die. 4,649,731, 3-17-87, Cl. 72-352.000.

Eisenmann, Siegfried. Hydrostatic gear ring machine. 4,666,382, 5-19-87, Cl. 418-61.00B.

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Kugler, Hans-Peter; Eisenreich, Norbert; and Liehmann, Wolfgang, 4,685,804, Cl. 356-373.000.

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Eisenzimmer, George W.; and Schisler, Robert C., to Goodyear Tire & Rubber Company, The. Reinforced hose structure. 4,688,605, 8-25-87, Cl. 138-130.000.

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Sedley, Bruce S.; and Eisermann, Armin, 4,676,083, Cl. 70-276.000.

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Eiskop, Robert K.: *See—*
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Baudequin, Francois; and Leclere, Patrick, 4,707,350, Cl. 423-637.000.
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Griffith, John T., 4,678,881, Cl. 219-10.510.
Winstanley, Ray; Farrell, Trevor; and Booth, Malcolm, 4,663,763, Cl. 373-26.000.
Electro Adapter: *See—*
Wolcott, Wayne B., 4,688,607, Cl. 140-93.200.
Wolcott, Wayne B., 4,696,327, Cl. 140-150.000.
Electro Adapter, Inc.: *See—*
Young, Thomas F., 4,646,393, Cl. 24-20.00R.
Electro-Biology, Inc.: *See—*
Gardner, Arthur M. N.; and Fox, Roger H., 4,696,289, Cl. 128-64.000.
Gardner, Arthur M. N.; and Fox, Roger H., 4,702,232, Cl. 128-64.000.
Electro-Catheter Corporation: *See—*
Shonk, Robert S., 4,699,157, Cl. 128-786.000.
Electro Cell AB: *See—*
Gustafsson, Hans; Schwartz, Stephan; and Widen, Karl-Bertil, 4,696,910, Cl. 502-159.000.
Electro Controls Inc.: *See—*
Clark, Ruel, 4,651,060, Cl. 315-199.000.
Electro-Craft Corporation: *See—*
Meshkat-Razavi, Saeid, 4,651,068, Cl. 318-254.000.
Electro-Fluidics: *See—*
Williams, W. Samuel; Hadley, David L.; Macia, Narciso F.; and Blum, Alvin S., 4,665,911, Cl. 128-204.210.
Electro-Matic Products Co.: *See—*
Littwin, Kenneth M.; Armond, Joseph A.; Buky, Gabriel R.; and Patrick, Fred, 4,639,821, Cl. 361-151.000.
Littwin, Kenneth M.; Armond, Joseph A.; and Patrick, Fred, 4,672,345, Cl. 335-284.000.
Electro Minerals (Canada), Inc.: *See—*
Seider, Robert J.; Guichelaar, Philip J.; and Anderson, Robert O., 4,686,032, Cl. 209-8.000.
Electro-Nite Company: *See—*
Bollen, Theo P. C.; and Cassidy, John E., 4,692,556, Cl. 136-234.000.
Cassidy, John E., 4,645,865, Cl. 136-234.000.
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Muehlberger, Erich, 4,689,468, Cl. 219-121.0PL.
Electro-Pneumatic-International GmbH: *See—*
Huber, Thomas, 4,689,847, Cl. 16-26.000.
Huber, Thomas, 4,697,694, Cl. 198-782.000.
Electro Sprayer Systems, Inc.: *See—*
Wensel, Neil D.; Norris, Gary E.; and Beierwaltes, Craig C., 4,698,767, Cl. 364-471.000.
Electro-tec Corporation: *See—*
Bloss, F. Donald, 4,692,024, Cl. 356-135.000.
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Bryson, Michael A., 4,646,873, Cl. 181-160.000.
Engelmann, Rudolph H.; and Early, Thad, 4,673,888, Cl. 330-10.000.
Engelmann, Rudolph H., 4,716,353, Cl. 320-21.000.
Gunness, David W., 4,685,532, Cl. 181-185.000.
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Bjareklint, Ake; and Simonsson, Daniel, 4,692,229, Cl. 204-151.000.
Carlsson, H. Roger; Schwartz, Stephan; and Hallberg, Mats, 4,701,265, Cl. 210-744.000.

- Electrochemische Energieconversie N.V. (Elenco N.V.): *See—*
  - Blanchart, Alain P. O.; and Van Der Poorten, Christian J. E. C., 4,696,872, Cl. 429-42.000.
- Electrohome Limited: *See—*
  - Desjardins, Francois G., 4,701,788, Cl. 358-64.000.
  - Kurz, Walter, 4,679,211, Cl. 315-399.000.
  - Waldeck, Gerald, 4,680,555, Cl. 331-108.00D.
- Electrolux Constructor GmbH: *See—*
  - Pepping, Karl-Heinz; and Kreuz, Werner, 4,643,495, Cl. 312-268.000.
- Electrolux Motor AB: *See—*
  - Nilsson, Goran A., 4,658,506, Cl. 30-371.000.
- Electrolux S.a.r.l.: *See—*
  - Godijn, Willem, 4,674,974, Cl. 431-337.000.
  - Muller, Fernand; Wannborg, Nils A.; and Billen, Kurt, 4,641,629, Cl. 126-6.000.
- Electromagnetic Launch Research, Inc.: *See—*
  - Mongeau, Peter P., 4,691,133, Cl. 310-178.000.
- Electromagnetic Sciences, Inc.: *See—*
  - Hoover, John C., 4,673,946, Cl. 343-776.000.
  - Hoover, John C.; and Giese, David E., 4,697,158, Cl. 333-1.100.
- Electromatic (Proprietary) Limited: *See—*
  - Buttemer, David A., 4,661,799, Cl. 340-941.000.
- Electromedics, Inc.: *See—*
  - Reeder, Gary D., 4,668,214, Cl. 494-37.000.
- Electromotive, Inc.: *See—*
  - Long, Alexander, 4,649,881, Cl. 123-418.000.
- Electronic Concepts, Inc.: *See—*
  - Lavene, Bernard, 4,685,026, Cl. 361-308.000.
- Electronic Design & Research, Inc.: *See—*
  - Shvartsman, Vladimir A., 4,692,709, Cl. 328-108.000.
  - Shvartsman, Vladimir A., 4,692,710, Cl. 328-111.000.
- Electronic Dust Detection, Inc.: *See—*
  - Dattilo, Donald P., 4,677,426, Cl. 340-627.000.
- Electronic Engineering and Manufacturing, Inc.: *See—*
  - Mackie, Gregory C.; Satra, Stephen E., and Chen, Chih-Ming, 4,698,842, Cl. 381-1.000.
- Electronic Identification Systems Silkesborg A/S: *See—*
  - Northeved, Allan, 4,651,750, Cl. 128-736.000.
- Electronic Image Systems, Inc.: *See—*
  - Holmes, Richard E.; Mays, Joe A.; and Tyler, Michael C., 4,687,973, Cl. 315-371.000.
- Electronic Instrument & Specialty Corp.: *See—*
  - Valeur, Bjorn E., 4,670,810, Cl. 361-5.000.
- Electronic Instrumentation and Technology: *See—*
  - May, Joe T.; and Hale, Steven D., 4,685,074, Cl. 364-564.000.
- Electronic Plating Service, Inc.: *See—*
  - Loewen, Heinz; and Wenko, Wold, 4,712,299, Cl. 29-882.000.
- Electronic Processors, Inc.: *See—*
  - Durand, Charles A.; and Gadsby, Larry R., 4,635,147, Cl. 360-93.000.
  - Sanford, Platter; Gadsby, Larry R.; and Heath, Robert T., 4,646,177, Cl. 360-95.000.
- Electronic Systems Technology, Inc.: *See—*
  - Kirchner, Tommy L.; Vargo, George F., Jr.; and Cantrell, Steven C., 4,665,519, Cl. 370-94.000.
- Electronics Corporation of America: *See—*
  - De Meirsman, Laurent, 4,639,717, Cl. 340-578.000.
- Electronics Research and Service Organization: *See—*
  - Yeh, Der-Zong; Wang, Der-Chyen; and Hsu, Tung-Tian, 4,669,898, Cl. 400-124.000.
- Electronics and Telecommunication Research Institute: *See—*
  - Chai, Sang-Hoon; and Lee, Jin-Hyo, 4,686,762, Cl. 437-36.000.
- Electronique CKD: *See—*
  - Picciotto, Robert; Ramel, Francois; Rousseau, Alain; and Touzin, Philippe, 4,687,268, Cl. 439-55.000.
- Electronique Serge Dassault: *See—*
  - Gaucher, Michel M., 4,697,726, Cl. 225-100.000.
- Electropainting Sales Pty. Ltd.: *See—*
  - Fallas, Spyros, 4,640,220, Cl. 118-326.000.
- Electroplating Engineers of Japan, Limited: *See—*
  - Higuchi, Kazuhiro, 4,699,697, Cl. 204-44.600.
  - Murata, Yasuto; Tezuka, Junichi; and Yamamoto, Kenji, 4,683,045, Cl. 204-206.000.
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  - Tezuka, Junichi; and Murata, Yasuto, 4,655,881, Cl. 204-15.000.
- Electrotel, Inc.: *See—*
  - Barbare, Walter L.; Willey, Harley M.; and Higgins, Ronald D., 4,706,280, Cl. 379-284.000.
- Electrovac, Fabrikation Elektrotechnischer Spezialartikel GmbH: *See—*
  - Bayer, Helmut, 4,646,054, Cl. 337-348.000.
- Electrovert: *See—*
  - Buszard, John F., 4,666,077, Cl. 228-37.000.
- Electrovert Limited: *See—*
  - Deambrosio, Carlos A., 4,684,056, Cl. 228-180.100.
  - Decker, Ronald G.; Hohmann, John P.; and Morones, George R., 4,667,868, Cl. 228-49.100.
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  - Watson, Alan R.; and Bryson, Michael A., 4,685,137, Cl. 381-174.000.
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  - Verstraeten, Achiel, 4,684,128, Cl. 273-1.0GC.
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- Elektro-Bladh AB: *See—*
  - Bladh, Ake, 4,686,738, Cl. 16-2.000.
- Elektro-Brite GmbH: *See—*
  - Klos, Klaus-Peter; Lindemann, Karl-Heinz; and Birnstiel, Willi, 4,705,576, Cl. 148-6.200.
- Elektro-Mechanik GmbH: *See—*
  - Dingerkus, Heinz-Ludwig, 4,648,539, Cl. 226-19.000.
- Elektro Mekan I Arjang AB: *See—*
  - Bergquist, Eric A., 4,645,022, Cl. 180-6.700.
- Elektro Mekani Arjang AB: *See—*
  - Faktus, Eskil; and Dahlen, Rolf, 4,710,063, Cl. 405-269.000.
- Elektro-Physik Hans Nix & Dr.-Ing. E. Steingroever KG: *See—*
  - Nix, Hans F., 4,692,700, Cl. 324-229.000.
- Elektro-Thermit GmbH: *See—*
  - Kempa, Bernd-Joachim, 4,634,087, Cl. 246-430.000.
- Elektromanufaktur Zangenstein Hanauer GmbH & Co.: *See—*
  - Giesl, Johann, 4,709,164, Cl. 307-326.000.
- Elektroschmelzwerk Kempten GmbH: *See—*
  - Benecke, Theodor; Lux, Benno; Schubert, Wolf-Dieter; Ta, Ar Tuan; and Kahr, Gerhard, 4,642,135, Cl. 420-33.000.
  - Hunold, Klaus; Lipp, Alfred; and Reinmuth, Klaus, 4,634,640, Cl. 428-704.000.
  - Hunold, Klaus; Lipp, Alfred; Reinmuth, Klaus; Arnold, Peter; and Napholcz, Johannes, 4,687,655, Cl. 423-344.000.
  - Knoch, Heinrich; Bechler, Eckhart; and Lipp, Alfred, 4,661,740, Cl. 313-346.00R.
  - Lipp, Alfred; Reinmuth, Klaus; and von Struensee, Detlef, 4,684,480, Cl. 252-478.000.
  - von Matuschka, Alfred G.; and Trausner, Norbert, 4,637,837, Cl. 148-6.000.
  - von Matuschka, Alfred G.; Liethschmidt, Klaus; Webert, Hubertus; and Kohler, Emil K., 4,715,812, Cl. 432-258.000.
- Elektrotechnisch Bureau Moekotte BV: *See—*
  - Jonker, Johan, 4,634,251, Cl. 354-312.000.
- Elektrowatt AG: *See—*
  - Mayer, Hans-Michael, 4,648,245, Cl. 60-477.000.
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- Elenteny, Barbara. Peel away multi-layer gloves. 4,696,065, 9-29-87, Cl. 2-168.000.
- Elesie, Louis D.; Van Hart, Elizabeth R.; Norwood, James J.; Norwood, Pauline M.; Dixon, Joseph W.; and Dixon, Eleanor M. Word definition game including a race track board. 4,666,161, 5-19-87, Cl. 273-246.000.
- Elettrochimica Marco Ginatta S.p.A.: *See—*
  - Ginatta, Marco V.; and Orsello, Gianmichele, 4,670,121, Cl. 204-225.000.
- Elettronica San Giorgio - ELSAG S.p.A.: *See—*
  - Filauro, Paolo; and Musso, Giorgio, 4,673,804, Cl. 235-463.000.
  - Musso, Giorgio, 4,696,049, Cl. 382-22.000.
- Elevator GmbH: *See—*
  - Halonen, Heino T. K.; and Pohjonen, Jukka I., 4,673,326, Cl. 414-286.000.
  - Heikkinen, Urho, 4,638,610, Cl. 52-109.000.
  - Hetemaa, Kalevi; Naumanen, Esko; and Vainio, Frans, 4,640,159, Cl. 238-122.000.
  - Kahkipuro, Matti; and Hakkinen, Pekka, 4,635,320, Cl. 187-29.00R.
  - Kahkipuro, Matti, 4,684,856, Cl. 318-310.000.
  - Kahkipuro, Matti J., 4,663,700, Cl. 363-54.000.
  - Kononen, Juhani, 4,673,066, Cl. 188-119.000.
  - Kuivamaki, Ismo; and Uuskoski, Klaus, 4,689,510, Cl. 310-74.000.
  - Kuivamaki, Ismo, 4,689,512, Cl. 310-89.000.
  - Makinen, Heimo; and Kahkipuro, Matti, 4,672,277, Cl. 318-380.000.
  - Partanen, Paavo; and Soderena, Soini, 4,687,110, Cl. 212-147.000.
  - Roschier, Nils-Robert, 4,679,032, Cl. 340-562.000.
  - Winkler, Hugo, 4,653,612, Cl. 187-38.000.
- Elevators Pty. Limited: *See—*
  - Luinstra, Mark F.; and McGloin, Stephen, 4,660,682, Cl. 187-1.00R.
- Elf France: *See—*
  - Angles, Michel; Hoornaert, Pierre; Audouin, Alain; Roques, Henri Aurelle, Yves; and Lopez, Louis, 4,650,581, Cl. 210-398.000.
  - Bossand, Bernard; Eppe, Jacques; Faure, Alain; and Leygue, Gilles, 4,684,391, Cl. 71-24.000.
  - de Cortanze, Andre, 4,641,849, Cl. 280-270.000.
  - de Cortanze, Andre, 4,650,027, Cl. 180-227.000.
  - de Cortanze, Andre, 4,653,604, Cl. 180-227.000.
  - Delons, Luc; and Chaumont, Roger, 4,681,680, Cl. 210-110.000.
  - Denis, Jacques; Sillion, Bernard; Damin, Bernard; and Laupie Jean-Michel, 4,664,676, Cl. 44-62.000.
  - Maldonado, Paul; Leger, Robert; Cohen, Choua; and Sillion, Bernard, 4,652,273, Cl. 44-63.000.
  - Torck, Bernard; Amigues, Pierre; Glaize, Yves; Grangette, Henri Laurent, Jean; and Fitoussi, Fred, 4,647,703, Cl. 568-697.000.
  - Torck, Bernard; Amigues, Pierre; Weill, Jerome; Gueguen, Claude Linares, Michel; and Bourgognon, Henri, 4,664,675, Cl. 44-60.000.
  - Trema, Daniel, 4,702,338, Cl. 180-219.000.
- Elf, Frank: *See—*
  - Chatzipetros, Johann; Dujka, Bernhard; Elf, Frank; and Will Georg, 4,644,761, Cl. 62-514.00R.

- Elf Isolation: *See—*
  - Couderc, Pierre; and Corbel, Henri, 4,686,803, Cl. 52-97.000.
- Elfgen, Gerd. Round cutting tool. 4,688,856, 8-25-87, Cl. 299-79.000.
- Elfline, Geraldine S., to CX/OXYTECH, Inc. Method of removing heavy metal from wastewater streams. 4,678,584, 7-7-87, Cl. 210-719.000.
- Elfman, Brian P.; and Zajac, Patricia L., to Autosense Corporation. Breath alcohol analyzer. 4,678,057, 7-7-87, Cl. 180-272.000.
- Elg, Karl G. H. Electric heat accumulating radiator with thermostatically regulated heat dissipation. 4,636,616, 1-13-87, Cl. 219-365.000.
- Elgema GmbH: *See—*
  - Moschner, Erich; Gruber, Engelbert; and Herborg, Karlheinz, 4,653,196, Cl. 33-552.000.
- Elger, Gerd. Linear coupling. 4,710,052, 12-1-87, Cl. 403-310.000.
- Elger, John H., to Sunbeam Corporation. Juice extractor quick connect/disconnect coupling. 4,700,621, 10-20-87, Cl. 99-511.000.
- Elger, Walter: *See—*
  - Annen, Klaus; Laurent, Henry; Elger, Walter; Wiechert, Rudolf; Hofmeister, Helmut; and Topert, Michael, 4,670,427, Cl. 514-178.000.
  - Laurent, Henry; Bittler, Dieter; Beier, Sybille; and Elger, Walter, 4,681,875, Cl. 514-182.000.
  - Skuballa, Werner; Raduchel, Bernd; Vorbruggen, Helmut; Elger, Walter; and Loge, Olaf, 4,699,920, Cl. 514-530.000.
- El-Hag, Nabil A.: *See—*
  - Rogers, Ann M.; El-Hag, Nabil A.; and Shenouda, Soliman Y. K., 4,701,330, Cl. 426-270.000.
- El-Hanany, Uri; Lachish, Uri; Rotter, Shlomo; and Adler, Eli, to Arel Control Systems, Ltd.; and State of Israel. Temperature control laser detection apparatus. 4,701,607, 10-20-87, Cl. 250-205.000.
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- Eli Lilly and Company: *See—*
  - Abdulla, Riaz F., 4,670,437, Cl. 514-247.000.
  - Anderson, David B.; Schmiegel, Klaus K.; and Veenhuizen, Edward L., 4,690,951, Cl. 514-653.000.
  - Atkins, Randall K.; and Weigel, Leland O., 4,689,415, Cl. 546-15.000.
  - Barnett, Charles J., 4,663,460, Cl. 546-334.000.
  - Bassett, Gregory S.; and Bollman, Robert L., 4,698,116, Cl. 156-423.000.
  - Beck, James R.; and Price, Carole W., 4,666,504, Cl. 71-92.000.
  - Beedle, Edward E.; and Robertson, David W., 4,642,379, Cl. 564-155.000.
  - Belagaje, Ramamoorthy; Kuhstoss, Stuart A.; and Rao, R. Nagaraja, 4,710,464, Cl. 435-91.000.
  - Birmingham, Virginia A.; and Seno, Eugene T., 4,680,265, Cl. 435-172.300.
  - Black, Larry J.; and Clemens, James A., 4,656,187, Cl. 514-422.000.
  - Boeck, LaVerne D.; Clem, Gladys M.; Hershberger, Charles L.; Anderson, Marie T.; and Michel, Karl H., 4,663,282, Cl. 435-68.000.
  - Boeck, LaVerne D., 4,683,204, Cl. 435-128.000.
  - Boisvenue, Rudolph J., 4,692,468, Cl. 514-616.000.
  - Bonjouklian, Rosanne; and Phillips, Michael L., 4,647,685, Cl. 558-169.000.
  - Bonjouklian, Rosanne; and Phillips, Michael L., 4,659,859, Cl. 558-188.000.
  - Bonjouklian, Rosanne; and Phillips, Michael L., 4,675,390, Cl. 536-4.100.
  - Bowsher, Ronald R.; and Henry, David P., 4,649,107, Cl. 435-15.000.
  - Browning, Ronald C.; and Pleiss, Melvin G., Jr., 4,659,813, Cl. 540-225.000.
  - Buddenbaum, Harry C.; and Robison, Robert L., 4,684,643, Cl. 514-204.000.
  - Burow, Kenneth W., Jr., 4,636,243, Cl. 71-88.000.
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  - Campbell, Jack B.; and Lavagnino, Edward R., 4,670,442, Cl. 514-283.000.
  - Chance, Ronald E.; Frank, Bruce H.; and Galloway, John A., 4,652,547, Cl. 514-4.000.
  - Chance, Ronald E.; Frank, Bruce H.; and Galloway, John A., 4,652,548, Cl. 514-4.000.
  - Chance, Ronald E.; Frank, Bruce H.; and Galloway, John A., 4,654,324, Cl. 514-12.000.
  - Cherkin, Arthur; Flood, James F.; and Wong, David T., 4,647,591, Cl. 514-651.000.
  - Chou, Ta-Sen; and Heath, Perry C., 4,665,168, Cl. 540-224.000.
  - Cohen, Marlene L.; Fuller, Ray W.; Garbrecht, William L.; and Whitten, Kathleen R., 4,713,384, Cl. 514-288.000.
  - Cullinan, George J., 4,667,030, Cl. 540-478.000.
  - Cullinan, George J., 4,675,400, Cl. 540-478.000.
  - Davis, Robert C.; Gibson, John W.; Skinner, Daniel S., Jr.; Dearth, Timothy E.; and Harris, Dale C., 4,649,042, Cl. 424-438.000.
  - Dinius, Harold B., 4,671,430, Cl. 222-135.000.
  - Dominianni, Samuel J.; and Yen, Terence T., 4,683,312, Cl. 548-341.000.
  - Dreikorn, Barry A.; and Kramer, Kenneth E., 4,670,596, Cl. 564-433.000.
  - Fayerman, Jeffrey T.; and Malin, Nancy E., 4,643,975, Cl. 435-317.000.
  - Fayerman, Jeffrey T.; Jones, Michael D.; and Malin, Nancy E., 4,666,846, Cl. 435-243.000.
  - Garbrecht, William L.; Marzoni, Gifford P.; and Whitten, Kathleen R., 4,714,704, Cl. 514-288.000.
  - Hamill, Robert L.; and Kastner, Ralph E., 4,659,660, Cl. 435-71.000.
  - Hamill, Robert L.; and Yao, Raymond C., 4,683,201, Cl. 435-75.000.
  - Hershberger, Charles L.; Merkel, Kurt E.; Weeks, Robert E.; and Wild, Gene M., 4,637,981, Cl. 435-75.000.
  - Hershberger, Charles L.; and Rosteck, Paul R., Jr., 4,650,761, Cl. 435-172.300.
  - Hershberger, Charles L.; and Larson, Jeffrey L., 4,710,466, Cl. 435-91.000.
  - Hertel, Larry W., 4,692,434, Cl. 514-49.000.
  - Hirsch, Kenneth S.; Jones, Charles D.; Taylor, Harold M.; and Dillard, Robert D., 4,659,730, Cl. 514-396.000.
  - Hirsch, Kenneth S.; and Taylor, Harold M., 4,661,508, Cl. 514-396.000.
  - Hunt, Ann H.; Molloy, R. Michael; Nagarajan, Ramakrishnan; and Schabel, Amelia A., 4,639,433, Cl. 514-8.000.
  - Hynes, Martin D., 4,683,235, Cl. 514-282.000.
  - Katner, Allen S., 4,692,443, Cl. 514-206.000.
  - Katner, Allen S., 4,698,338, Cl. 514-206.000.
  - Kukolja, Stjepan; and Wright, Walter E., 4,683,227, Cl. 514-202.000.
  - Lacefield, William B.; and Simon, Richard L., 4,658,061, Cl. 564-180.000.
  - Laguzza, Bennett C., 4,675,322, Cl. 514-288.000.
  - Laguzza, Bennett C.; Nichols, Cynthia L.; and Bach, Nicholas J., 4,683,313, Cl. 548-437.000.
  - Lipson, David; Liu, Benjamin L.; and Loebel, Nicolas G., 4,710,623, Cl. 250-227.000.
  - Lord, Gary E., 4,692,518, Cl. 540-224.000.
  - Lord, Gary E.; Metzler, Robert M.; and Wirth, David D., 4,703,118, Cl. 540-224.000.
  - Ludwig, Nelson H., 4,665,100, Cl. 514-778.000.
  - Mabe, James A.; and Nakatsukasa, Walter M., 4,683,206, Cl. 435-253.000.
  - Mabe, James A.; and Nakatsukasa, Walter M., 4,698,307, Cl. 435-253.000.
  - Marshall, Winston S.; and Verge, John P., 4,661,505, Cl. 514-381.000.
  - Marzoni, Gifford P.; and Garbrecht, William L., 4,683,237, Cl. 514-288.000.
  - Marzoni, Gifford P.; and Garbrecht, William L., 4,704,395, Cl. 514-288.000.
  - Marzoni, Gifford P.; and Garbrecht, William L., 4,713,385, Cl. 514-288.000.
  - Massey, Eddie H., 4,704,407, Cl. 514-649.000.
  - McShane, Lawrence J., 4,704,156, Cl. 71-88.000.
  - Michel, Karl H.; and Kastner, Ralph E., 4,713,331, Cl. 435-68.000.
  - Morin, John M., Jr.; and Leonard, Nelson J., 4,665,066, Cl. 514-206.000.
  - Mynderse, Jon S.; and Fukuda, David S., 4,675,408, Cl. 546-138.000.
  - Nagarajan, Ramakrishnan; and Schabel, Amelia A., 4,643,987, Cl. 514-8.000.
  - Nagarajan, Ramakrishnan; and Schabel, Amelia A., 4,698,327, Cl. 514-8.000.
  - Nakatsukasa, Walter M., 4,695,545, Cl. 435-119.000.
  - Robertson, David W., 4,647,564, Cl. 514-254.000.
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  - Ryan, Charles W.; and Slomski, Bruce A., 4,645,861, Cl. 564-99.000.
  - Schaus, John M., 4,647,667, Cl. 546-164.000.
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  - Whitten, Kathleen R.; Garbrecht, William L.; Marzoni, Gifford P.; and Parli, C. John, 4,683,236, Cl. 514-288.000.
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  - Wikel, James H., 4,659,717, Cl. 514-301.000.
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- Eliachar, Isaac, to Cleveland Clinic Foundation, The. Endotracheal tube. 4,700,700, 10-20-87, Cl. 128-207.150.
- Elias, Bernard: *See—*
  - Galles, Henri; and Elias, Bernard, 4,700,864, Cl. 220-86.00R.
- Elias, Carole L.; and Fields, Marvin C., to Aristech Chemical Corporation. Purifying cumene hydroperoxide. 4,654,124, 3-31-87, Cl. 203-72.000.
- Elias, Eric: *See—*
  - Van Gieson, Edward; Wicks, Gary W.; Elias, Eric; and Eastman, Lester F., 4,700,353, Cl. 372-26.000.
- Elias, John G.; and Jansson, Peter A., to Du Pont de Nemours, E. I., and Company. Spot quantitation. 4,638,456, 1-20-87, Cl. 364-518.000.
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Matejka, Zdenek; and Eliasek, Jarcslav, 4,664,810, Cl. 210-672.000.

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Newberg, Phillip J., 4,635,421, Cl. 52-309.110.

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Cavagna, Elio, 4,641,575, Cl. 101-23.000.

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Amstutz, Stanford R.; Eliscu, Mark; and Haselton, E. Fletcher, 4,698,799, Cl. 370-58.000.
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Robertsen, Anthony L., 4,690,566, Cl. 368-108.000.

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Curda, Otakar; Maxa, Jaroslav; and Uhlir, Pavel, 4,710,646, Cl. 307-116.000.
Havelka, Jilji; Jirasko, Petr; Koloc, Zdenek; and Vaclavik, Miroslav, 4,643,372, Cl. 242-43.200.
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Jelinek, Jan; and Matousek, Bohumir, 4,665,718, Cl. 66-9.00R.
Rambousek, Zdenek; and Zlatohlavek, Jiri, 4,651,784, Cl. 139-57.000.

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Barnett, Timothy J., 4,690,040, Cl. 98-2.140.

Elizalde, Fernando V.: *See—*
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Aasen, Torbjorn; and Thogersen, Bjarne, 4,649,807, Cl. 98-58.000.
Aune, Jan A.; and Nos, Per O., 4,674,728, Cl. 266-193.000.
Aune, Jan A. J.; and Evensen, Knut K., 4,696,457, Cl. 266-207.000.
Dahl, Erik Q.; Vatland, Arnfinn; and Vegge, Olaf T., 4,678,434, Cl. 432-242.000.
Evensen, Knut, 4,646,317, Cl. 373-101.000.
Sandvik, Johannes, 4,645,082, Cl. 212-141.000.
Vegge, Olaf T., 4,663,844, Cl. 30-100.000.

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Hornung, Mary J.; and Sauer, Edward C., 4,666,516, Cl. 420-30.000.
Lee, Young E.; Downing, James H.; and Kaiser, Robert H., 4,684,403, Cl. 75-80.000.
Todd, Lamar S.; Kaiser, Robert H.; and Hilburger, Donald R., 4,676,970, Cl. 423-561.00R.

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Elkins, Johnny C. Adjustable gun rack. 4,648,516, 3-10-87, Cl. 211-64.000.

Elkins, Marvin; and Smith, Dwight L. Pet mat. 4,649,861, 3-17-87, Cl. 119-1.000.

Elkins, Patricia C.; Chan, Yau-Wai D.; Chi, Keh-Fei C.; Reinhardt, Karen A.; Tang, Rebecca Y.; and Zwingman, Robert L., to Rockwell International Corporation. Planarization process for double metal MOS using spin-on glass as a sacrificial layer. 4,676,867, 6-30-87, Cl. 156-643.000.

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Ell, Travis E.; and Stephenson, Jeff, to International Business Machines Corporation. Data disk drive velocity estimator. 4,691,152, 9-1-87, Cl. 318-616.000.

Ellames, George J.; and Jaxa-Chamiec, Albert A., to G. D. Searle & Co. Substituted dihydroimidazo[1,2-a]quinoxalines. 4,696,928, 9-29-87, Cl. 514-250.000.

Ellcon-National, Inc.: *See—*
Shepherd, Robert W., 4,714,142, Cl. 188-185.000.

Ellegood, Norman W.; Fritsche, Joel L.; Groezinger, John J.; Ikeda, Keichi; and Streitmatter, Ronald W., to Caterpillar Inc. Apparatu and method for wrapping an external tape support about a filte element assembly. 4,692,196, 9-8-87, Cl. 156-187.000.

Elleman, Daniel D.: *See—*
Kendall, James M., Jr.; Wang, Taylor G.; and Elleman, Daniel D. 4,643,854, Cl. 264-12.000.
Wang, Taylor G.; Elleman, Daniel D.; Lee, Mark C.; and Kenda James M., Jr., 4,701,436, Cl. 502-339.000.

Ellen, Peter E., to Elspan International Limited. Post-tensioned st structure. 4,676,045, 6-30-87, Cl. 52-745.000.

Ellenberg & Poensgen GmbH: *See—*
Sell, William F., 4,667,175, Cl. 337-68.000.

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Sibeud, Jean P.; and Ellenberger, Gerard, 4,653,272, Cl. 60-586.00

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Eller, Bill A.: *See—*
Weaver, Max A.; Clark, Gary T.; and Eller, Bill A., 4,650,861, C 534-777.000.

Eller, Dennis E. Motorboat propeller guard for improved performan 4,680,017, 7-14-87, Cl. 440-66.000.

Eller, Harold E. Exhaust back pressure reducer. 4,665,691, 5-19-87, C 60-316.000.

Eller, Thomas D.; and Knapp, Daniel R., to Drug Science Foundati Aminoalkoxy derivatives of propranolol for immunoassay applic tions. 4,652,681, 3-24-87, Cl. 564-349.000.

Eller, Thomas D.; Halushka, Perry V.; Knapp, Daniel R.; and Ma Dale, to Drug Science Foundation. Aromatic derivatives of 13-a prostanoic acid. 4,695,647, 9-22-87, Cl. 560-53.000.

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Ellerbrock, Eugene A.: *See—*
Hughes, Brett A.; Gilbert, David L.; and Ellerbrock, Eugene 4,689,868, Cl. 29-523.000.

Ellerbroek, Brent L., to Hughes Aircraft Company. Solid-state wa front slope determination. 4,690,555, 9-1-87, Cl. 356-121.000.

Ellerbroek, Brent L.; and Cohn, Brian D., to Hughes Aircraft Co pany. Shearing phase difference sensor. 4,705,400, 11-10-87, C 356-353.000.

Ellermann, Horst; and Krumboeck, Walter, to Otis Elevator Comp Gibs for elevator guide shoes. 4,652,146, 3-24-87, Cl. 384-33.00

Ellermann, Jurgen; Pfeiffenberger, Horst; and Ripberger, Emil Mahle GmbH. Aluminum plunger piston with thermal expans regulating strip, for internal combustion engines. 4,669,366, 6-2 Cl. 92-225.000.

Ellerson, James V.: *See—*
Donson, William A.; Ellerson, James V.; Hammer, Richard Lafer, William; and Snyder, Keith A., 4,690,833, Cl. 427-96.0

Ellery, John M., Sr., to Beloit Corporation. Adaptive constant refi intensity control. 4,661,911, 4-28-87, Cl. 364-471.000.

Ellicott Machine Corporation: *See—*
McDowell, Alexander W. K., 4,702,023, Cl. 37-66.000.

Elliehausen, Heinrich: *See—*
Grenacher, Armin V.; Strohmeyer, Max; Hoffmann, Herwig Elliehausen, Heinrich, 4,709,105, Cl. 568-883.000.

Elliesen, Wolfgang, to Joh. Friedrich Behrens AG. Valve arrangem 4,667,572, 5-26-87, Cl. 91-461.000.

Ellig, Daniel L.: *See—*
Gattuso, Mark J.; and Ellig, Daniel L., 4,695,560, Cl. 502-222.0

Ellingboe, Edmund G. Theft resistant condiment container. 4,637 1-20-87, Cl. 222-146.200.

Ellinger, S. Michael, to Simmonds Precision Products, Inc. Opto-ac tic fuel quantity gauging system. 4,677,305, 6-30-87, Cl. 250-577.0

Ellinghuysen, Jerald A.: *See—*
Phillips, Robert W.; and Ellinghuysen, Jerald A., 4,689,318, C 514-25.000.

Ellingsen, Turid: *See—*
Ugelstad, John; Ellingsen, Turid; Berge, Arvid; and Helgee, Od B., 4,654,267, Cl. 428-407.000.

Ellingson, Chester W., Jr., to Reese Enterprises, Inc. Floor cove structure. 4,663,903, 5-12-87, Cl. 52-181.000.

Ellingson, David I., to Maytag Company, The. Analysis of rota eccentricity. 4,677,291, 6-30-87, Cl. 250-231.0GY.

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Cotton, Curran D.; Ellingson, David I.; Erickson, Donald E.; M William J.; and Wilson, James D., 4,663,538, Cl. 307-38.000

Ellingson, David R.: *See—*
Baxter, Richard V., Jr.; Bourke, Robert F.; Ellingson, David Paul, Terrance D.; and Layden, David L., 4,692,854, 363-75.000.

Ellingson, Hartley, to Frontier, Inc. Roll-tight tarp system. 4,691, 9-8-87, Cl. 296-98.000.

Ellington, William E.: *See—*
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Ellingvag, Nils A. Offshore multi-stay platform structure. 4,704, 11-3-87, Cl. 405-224.000.

Ellion, Dolores D.; and Ellion, Max E. Gun powder dispensing measuring apparatus. 4,696,356, 9-29-87, Cl. 177-123.000.

Ellion, M. Edmund; and Wolff, George, to Hughes Aircraft Com Thin GaAs solar cell structures. 4,692,559, 9-8-87, Cl. 136-262

Ellion, M. Edmund, to Hughes Aircraft Company. Combined photovoltaic-thermoelectric solar cell and solar cell array. 4,710,588, 12-1-87, Cl. 136-206.000.

Ellion, Max E.: *See—*

Ellion, Dolores D.; and Ellion, Max E., 4,696,356, Cl. 177-123.000.

Elliott, Arthur J., to Halocarbon Products Corporation. Coupling of chloroperfluoroalkanes. 4,634,797, 1-6-87, Cl. 570-171.000.

Elliott, Brian W., to Dow Chemical Company, The. Curable coating composition and epoxy resin adduct useful therein. 4,678,712, 7-7-87, Cl. 428-418.000.

Elliott, Charles R.: *See—*

Davies, Graham J.; and Elliott, Charles R., 4,675,086, Cl. 204-129.300.

Elliott, Charles T.; and White, Anthony M., to Secretary of State for Defence, The. Infra red photo detector systems. 4,691,107, 9-1-87, Cl. 250-370.000.

Elliott, Curtis, to Elliott, Curtis. Method and apparatus for preventing mud slides. 4,671,701, 6-9-87, Cl. 405-131.000.

Elliott, David J. Transport containers for semiconductor wafers. 4,668,484, 5-26-87, Cl. 422-113.000.

Elliott, David J., to Phillips Petroleum Company. Synthesis of higher ketones. 4,694,108, 9-15-87, Cl. 568-387.000.

Elliott, Donald P.; and Halseth, William L., to C. R. Bard, Inc. Air leak detection system for chest fluid collection bottles and blow-out prevention baffle therefor. 4,715,856, 12-29-87, Cl. 604-321.000.

Elliott, Elden M.: *See—*

Cooper, Michael G.; Elliott, Elden M.; and Hartzell, Dean A., 4,644,538, Cl. 371-9.000.

Elliott, Francis J. J., Jr. Quick disconnect retainer for a detachable drumstick head. 4,640,176, 2-3-87, Cl. 84-422.00S.

Elliott, Francis J. J., Jr. Drumsticks or mallets with para-hemispheroidal heads and their assembly. 4,640,177, 2-3-87, Cl. 84-422.00S.

Elliott, Franklin E.; and Kudishevich, Anatoly, to Capri Lighting. One piece lamp mounting for recessed light fixtures. 4,703,406, 10-27-87, Cl. 362-365.000.

Elliott, George D. Fuel injector. 4,700,678, 10-20-87, Cl. 123-297.000.

Elliott, Gregory K., to Kaiser Aerospace & Electronics Corporation. Open flow valve assembly. 4,690,296, 9-1-87, Cl. 220-259.000.

Elliott, Guy R. B. Recovery of uranium alloy. 4,636,250, 1-13-87, Cl. 75-84.10A.

Elliott, James E. Adjustable Venetian blind. 4,699,196, 10-13-87, Cl. 160-168.00R.

Elliott, James E., to Discovision Associates. Video disc read back scanner. 4,703,467, 10-27-87, Cl. 369-44.000.

Elliott, James O.; and Ricker, Dennis J., to General Motors Corporation. Electric motor speed controller supply circuit for a motor vehicle. 4,642,538, 2-10-87, Cl. 318-139.000.

Elliott, James O., to General Motors Corporation. AM-FM cellular telephone multiband antenna for motor vehicle. 4,675,687, 6-23-87, Cl. 343-715.000.

Elliott, James O.; and Monahan, Michael B., to General Motors Corporation. Sensorless starting control for a brushless DC motor. 4,678,973, 7-7-87, Cl. 318-254.000.

Elliott, James O.; and Savage, Jack W., to General Motors Corporation. Brushless DC motor and sensorless drive arrangement therefor. 4,694,210, 9-15-87, Cl. 310-68.00R.

Elliott, James P.: *See—*

Chen, Wen-hsiung; Elliott, James P.; Newell, Robert E. G.; Nichols, Ralph E.; and Rackett, Albert E., 4,704,628, Cl. 358-136.000.

Elliott, Jeffrey H.; Stokes, Robert B.; Penunuri, David; and Yen, Kuo-Hsiung, to TRW Inc. Magnetostatic wave channelizer. 4,716,390, 12-29-87, Cl. 333-202.000.

Elliott, Jennings W., to Schlumberger Technology Corporation. Electrophotographic recorder controller. 4,669,860, 6-2-87, Cl. 355-14.00R.

Elliott, John D.; and King, Steven P., to Foster Wheeler Energy Corporation. Method of quenching heated coke to limit coke drum stress. 4,634,500, 1-6-87, Cl. 201-39.000.

Elliott, John D.: *See—*

Bonilla, Jorge A.; and Elliott, John D., 4,686,027, Cl. 208-39.000.

Elliott, Jon S. Electrical wire connector and connection method. 4,685,757, 8-11-87, Cl. 439-426.000.

Elliott, Kenneth: *See—*

Atkins, Alan D.; Elliott, Kenneth; and Looms, John S. T., 4,714,800, Cl. 174-73.00R.

Elliott, Kenneth F., to U.S. Philips Corporation. Supporting assembly. 4,706,819, 11-17-87, Cl. 211-41.000.

Elliott, Kenneth R., to Rockwell International Corporation. Method of adjusting threshold voltage subsequent to fabrication of transistor. 4,701,422, 10-20-87, Cl. 437-8.000.

Elliott, Mark L., to Magnetic Peripherals Inc. Digital velocity control for a disk drive servo system. 4,677,507, 6-30-87, Cl. 360-78.000.

Elliott, Michael; Janes, Norman F.; and Elliott, Richard L., to National Research Development Corporation. Pesticides. 4,668,701, 5-26-87, Cl. 514-531.000.

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Elliott, Michael; Janes, Norman F.; and Khambay, Bhupinder P. S., to National Research Development Corporation. Pesticidal cyclopropanecarboxylic acid esters, their compositions and use. 4,696,944, 9-29-87, Cl. 514-531.000.

Elliott, Michael; Janes, Norman F.; and Khambay, Bhupinder P. S., to National Research Development Corporation. Pesticides. 4,713,392, 12-15-87, Cl. 514-464.000.

Elliott, Morris C., Sr. Long-haul vehicle streamline apparatus. 4,702,509, 10-27-87, Cl. 296-1.00S.

Elliott, Patrick H.; and Funk, James L., to Babcock & Wilcox Company, The. Adjustable multilayer thermal mirror insulation. 4,659,601, 4-21-87, Cl. 428-36.000.

Elliott, Randall B.: *See—*

Pailthorp, Robert M.; Stupak, Joseph J., Jr.; and Elliott, Randall B., 4,656,400, Cl. 318-135.000.

Elliott, Richard A.: *See—*

Puretz, Joseph; Orloff, Jonathan H.; DeFreez, Richard K.; and Elliott, Richard A., 4,698,129, Cl. 156-643.000.

Elliott, Richard L.: *See—*

Dorgan, Roderick J.; and Elliott, Richard L., 4,661,489, Cl. 514-211.000.

Elliott, Michael; Janes, Norman F.; and Elliott, Richard L., 4,668,701, Cl. 514-531.000.

Elliott, Michael; Janes, Norman F.; and Elliott, Richard L., 4,668,702, Cl. 514-531.000.

Elliott, Robert B.: *See—*

Edgar, Brian W.; and Elliott, Robert B., 4,677,975, Cl. 128-200.140.

Elliott, Robert D.: *See—*

Temple, Carroll G.; Montgomery, John A.; Elliott, Robert D.; and Wheeler, Glynn P., 4,645,840, Cl. 546-308.000.

Elliott, Roger A.; and Lindquist, Wayne V., to AT&T Bell Laboratories. Reliable local data network arrangement. 4,692,918, 9-8-87, Cl. 370-85.000.

Elliott, Timothy F.: *See—*

Johnson, Bruce S.; and Elliott, Timothy F., 4,666,034, Cl. 206-3.000.

Elliott Turbomachinery Co., Inc.: *See—*

Hankins, William H., 4,646,411, Cl. 29-252.000.

Strickler, Roger D., 4,643,637, Cl. 415-122.00R.

Strickler, Roger D., 4,679,399, Cl. 60-646.000.

Elliott, William O., to McConway & Torley Corporation. Knuckle structure to prevent knuckle pin failure in a railway coupler. 4,640,422, 2-3-87, Cl. 213-155.000.

Elliott, William O.; and Glover, Mary A., to McConway & Torley Corporation. Striker carrier having an adjustable wear plate for a railway coupler. 4,706,826, 11-17-87, Cl. 213-61.000.

Elliott, William T.: *See—*

Le, Minh V.; Hawkett, Brian S.; and Elliott, William T., 4,661,540, Cl. 523-409.000.

Ellis, Annie T., to Coca-Cola Company, The. Cup locator for beverage dispenser. 4,658,872, 4-21-87, Cl. 141-311.00R.

Ellis, Arthur B.; and Carpenter, Michael K., to Minnesota Mining and Manufacturing Company. Diodes with chemically sensitive luminescence. 4,645,932, 2-24-87, Cl. 250-361.00R.

Ellis, Arthur B., and van Ryswyk, Hal, to Minnesota Mining and Manufacturing Company. Surface-derivatized semiconductors with chemically sensitive luminescence. 4,710,476, 12-1-87, Cl. 436-172.000.

Ellis, Cedric R.; Long, Peter G.; Marshman, Christopher A.; and Gillery, David J., to Ellis, Cedric R. Heating instrument for treating a deformed nail. 4,702,246, 10-27-87, Cl. 128-303.100.

Ellis, Chris P.: *See—*

Ellis, John P.; and Ellis, Chris P., 4,650,098, Cl. 222-252.000.

Ellis, Christopher W. H., and Tritton, John A., to General Electric Company, p.l.c., The. Line transmission systems. 4,644,525, 2-17-87, Cl. 370-29.000.

Ellis, Craig A.: *See—*

Foster, Roland S.; and Ellis, Craig A., 4,644,076, Cl. 556-412.000.

Ellis, Dale E. Surfboard user's foot piece and new combinations therewith. 4,645,466, 2-24-87, Cl. 441-74.000.

Ellis, Darwin L.; and Kelly, Frank M., to Aluminum Company of America. Capping head. 4,633,646, 1-6-87, Cl. 53-331.500.

Ellis, Darwin L.; and McKee, Kyle, to Aluminum Company of America. Screwcapping head with a hysteresis clutch. 4,674,264, 6-23-87, Cl. 53-331.500.

Ellis, Darwin L., to Aluminum Company of America. Valve. 4,700,745, 10-20-87, Cl. 137-625.110.

Ellis, Darwin V., to Schlumberger Technology Corporation. Clay type and volume evaluation. 4,645,927, 2-24-87, Cl. 250-269.000.

Ellis, David M., to Hewlett-Packard Company. Apparatus and method for reduction in respiration artifact in pulmonary artery pressure measurement. 4,667,680, 5-26-87, Cl. 128-672.000.

Ellis, Donald G., to University Patents, Inc. Probe swivel mechanism. 4,641,657, 2-10-87, Cl. 128-630.000.

Ellis, Donald G.: *See—*

Moulding, Thomas S., Jr.; and Ellis, Donald G., 4,690,676, Cl. 604-189.000.

Ellis, Edward J.; and Ellis, Jeanne Y., to Polymer Technology Corporation. Fluorine containing polymeric compositions useful in contact lenses. 4,686,267, 8-11-87, Cl. 526-245.000.

Ellis, Ernest W.: *See—*

Borror, Alan L.; Ellis, Ernest W.; Faramarzpour, Faramarz; MacKenzie, Hugh R.; and McGowan, Donald A., 4,663,518, Cl. 235-487.000.

Ellis, Frank B., Jr.; and Delahoy, Alan E., to Chronar Corp. Method of depositing wide bandgap amorphous semiconductor materials. 4,696,702, 9-29-87, Cl. 437-88.000.

Ellis, Gary D.: *See—*

Lustig, Lee M.; and Ellis, Gary D., 4,691,775, Cl. 166-317.000.

Ellis, George S., to Kinetico, Inc. Filter apparatus. 4,698,164, 10-6-87, Cl. 210-739.000.

Ellis, George S., III, to Kinetico, Inc. Fluid treatment system. 4,650,586, 3-17-87, Cl. 210-636.000.

Ellis, Gwendolyn E.: *See—*
  Arrendiell, Robert; and Ellis, Gwendolyn E., 4,712,927, Cl. 384-23.000.
Ellis, Harold, to Delphic Research Laboratories, Inc. Fire-barrier plywood. 4,661,398, 4-28-87, Cl. 428-245.000.
Ellis, Harold W.: *See—*
  Knapp, Alan G.; and Ellis, Harold W., 4,660,076, Cl. 358-73.000.
Ellis, Jack J. Bulk material sampling apparatus. 4,641,540, 2-10-87, Cl. 73-863.530.
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Ellis, Julian G. Prosthetic ligament. 4,665,951, 5-19-87, Cl. 139-387.00R.
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Ellis, Louise C.; Fahrenkrug, Anne M.; Basten, Julie T.; and Milner, James D., to Kimberly-Clark Corporation. Three-dimensional shaped feminine pad with narrow, absorbent center and winged edges. 4,701,177, 10-20-87, Cl. 604-385.00A.
Ellis, Malcolm I., to MIE Medical Research Limited. Apparatus for measurement of grip and pinch strength. 4,674,330, 6-23-87, Cl. 73-379.000.
Ellis, Michael P.; and Ray, Jon P., to Advanced Tobacco Products Inc. Nicotine enhanced smoking device. 4,676,259, 6-30-87, Cl. 131-335.000.
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  Ginzburg, Vladimir B.; and Ellis, Robert H., 4,656,905, Cl. 83-337.000.
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Ellis, Stafford M.; and Price, Donald R. C., to GEC Avionics Limited. Magnetic field sensors. 4,656,421, 4-7-87, Cl. 324-244.000.
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Ellis, Stafford M., to GEC Avionics Limited. Electric circuit module arrangements. 4,692,840, 9-8-87, Cl. 361-393.000.
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Ellis, Theron L.: *See—*
  Chellis, LeRoy N.; and Ellis, Theron L., 4,704,791, Cl. 29-852.000.
Ellis, Thomas B. Body restraint. 4,655,207, 4-7-87, Cl. 128-135.000.
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  Niggemann, Richard E.; and Ellis, Wilbert E., 4,697,427, Cl. 62-119.000.
Ellis, Willard H., to Carbomedics, Inc. Stabilizer for percutaneous medical devices. 4,648,391, 3-10-87, Cl. 128-132.00R.
Ellison, Donald E., to United Technologies Automotive, Inc. Wire cross-over arrangement for coil assembly. 4,638,282, 1-20-87, Cl. 336-185.000.
Ellison, John E.: *See—*
  Riefler, Roger G.; and Ellison, John E., 4,649,360, Cl. 335-255.000.
Ellison, John R., Jr.: *See—*
  Krohn, David A.; Maack, David R.; Vinarub, Edmond L.; and Ellison, John R., Jr., 4,679,029, Cl. 340-347.00P.
  Krohn, David A.; Maack, David R.; Vinarub, Edmond L.; and Ellison, John R., Jr., 4,698,616, Cl. 340-347.00P.
Ellison, Kenneth, to Hunter Engineering (Canada) Ltd. Indirect fir oven system for curing coated metal products. 4,662,840, 5-5-87, C 432-8.000.
Ellison, Kenneth, to Hunter Engineering (Canada) Ltd. Oven syste having a heated snout at its entrance end. 4,678,433, 7-7-87, C 432-59.000.
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  Goodell, Fred L.; and Ellison, Michael J., 4,709,738, C 152-400.000.
Ellison, Pioneer Division: *See—*
  Chabot, Leo L., 4,635,685, Cl. 139-91.000.
  Goodman, Robert M., Jr., 4,658,864, Cl. 139-91.000.
Ellison, Thomas M.: *See—*
  Palmer, Emery A.; Shimanski, Michael A.; Ellison, Thomas M and Everidge, Jack P., 4,678,690, Cl. 428-31.000.
Ellman, Alan G.: *See—*
  Garito, Jon C.; and Ellman, Alan G., 4,657,016, Cl. 128-303.13
Ellner, Sidney; and Sauska, Christian. Elongated tubular lamp constru tion. 4,700,101, 10-13-87, Cl. 313-1.000.
Elloway, Russell: *See—*
  Aldridge, Robert E.; Elloway, Russell; Fritz, William O.; Gell Ralph D.; and Herrera, Michael J., 4,636,140, Cl. 414-786.00
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  Aldridge, Robert E.; Elloway, Russell; Fritz, William O.; Gell Ralph D.; and Herrera, Michael J., 4,692,115, Cl. 432-242.00
Ellsberg, Thomas R., to American Locker Group Incorporated. Sec rity system. 4,698,630, 10-6-87, Cl. 340-825.310.
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Ellsworth, Wendell E.; and Birdsall, Raymond P., to Algoma Har woods, Inc. Windowed fire door. 4,637,182, 1-20-87, Cl. 52-211.0
Elltex, koncern textilniho strojirenstvi: *See—*
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Ellwood, Derek C.; Evans, Charles G. T.; and Yeo, Richard G., t Secretary of State for Defence in Her Britannic Majesty's Gover ment of the United Kingdom of Great Britian and Northern Irelan The. Production of bacterial polysaccharides. 4,696,900, 9-29-87, C 435-104.000.
Ellwood, Derek C.: *See—*
  Gibbs, Dudley F.; Greenhalgh, Marilyn E.; Watson, James H. F Yeo, Richard G.; and Ellwood, Derek C., 4,701,261, C 210-606.000.
Ellwood, Henry, to Farrel Corporation. Modular extruder barrel co struction. 4,640,672, 2-3-87, Cl. 425-192.00R.
Ellwood, Michael: *See—*
  Dickinson, Peter; and Ellwood, Michael, 4,659,649, C 430-280.000.
Ellwood, Robert E. Bedding device for an animal leg hold tr 4,660,319, 4-28-87, Cl. 43-96.000.
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  Gindy, Sherif S.; Amlani, Kishan D.; and Ellwood, Thomas J 4,659,411, Cl. 156-285.000.
Elly, James E.: *See—*
  Bischoff, Gene L.; and Elly, James E., 4,714,969, Cl. 360-66.00
Elm Company Ltd.: *See—*
  Hori, Keiichi, 4,679,058, Cl. 346-140.00R.
Elman, Boris S.; Sandman, Daniel J.; Tripathy, Sukant K.; and Thak Mrinal K., to GTE Laboratories Incorporated. Ion implanted poly iacetylenes. 4,647,403, 3-3-87, Cl. 252-512.000.
Elman, Boris S.: *See—*
  Sandman, Daniel J.; Elman, Boris S.; and Velazquez, Christophe S., 4,665,133, Cl. 525-326.700.
  Sandman, Daniel J.; and Elman, Boris S., 4,681,920, C 525-328.100.
  Sandman, Daniel J.; Elman, Boris S.; and Velazquez, Christophe S., 4,699,952, Cl. 525-326.700.
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Elmar Industries, Inc.: *See—*
  Minard, Everett S., 4,700,756, Cl. 141-144.000.
Elmasry, Mohamed A., to Minnesota Mining and Manufacturing Com pany. Optical information storage based on polymeric dy 4,666,819, 5-19-87, Cl. 430-270.000.
Elmasry, Mohamed A., to Minnesota Mining and Manufacturing Com pany. Polymeric cyanine dye. 4,680,375, 7-14-87, Cl. 528-253.000
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  Kameya, Kazuo, 4,642,588, Cl. 333-139.000.
  Kameya, Kazuo, 4,649,356, Cl. 333-138.000.
  Kameya, Kazuo, 4,656,443, Cl. 333-156.000.
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  Kameya, Kazuo, 4,695,812, Cl. 333-156.000.
  Kameya, Kazuo, 4,697,162, Cl. 333-161.000.
  Kameya, Kazuo, 4,701,723, Cl. 333-33.000.
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Elmenthaler, Bernd: *See—*

- Muller, Hartmut; Huber, Hans; Franzmann, Giselher; and Elmenthaler, Bernd, 4,668,763, Cl. 528-296.000.

Elmer, Arthur E. H., to Kysor Industrial Corporation. Viscous drive with variable pump action. 4,682,679, 7-28-87, Cl. 192-58.00C.

Elmer, William A. Triangular car top sign. 4,667,428, 5-26-87, Cl. 40-592.000.

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- Gassmann, Gerhard G.; Schat, Hermannus; Elmis, Herbert; Novotny, Bernd; Kappeler, Otmar; and Ehrhardt, Dietmar, 4,710,814, Cl. 358-143.000.

Elmlid, Carl-Gustaf: *See—*

- Marklund, Olle E.; Elmlid, Carl-Gustaf; Marklund, Ulf P.; and Borell, Michael C., 4,681,268, Cl. 241-24.000.

El-Mokadem, Ferial T.: *See—*

- Horna, Otakar A.; Stennett, Edwin A.; and El-Mokadem, Ferial T., 4,645,883, Cl. 379-406.000.

Elmore, Carl L.; Poulin, Ted M.; and Barrett, Mark D., to Kamyr, Inc. Heat exchange treatment of fluids. 4,638,855, 1-27-87, Cl. 165-101.000.

Elmore, Carl L.; Sherman, Paul; and McGrath, Daniel A., to Kamyr, Inc. Radial configuration of evaporator heating elements and method. 4,673,459, 6-16-87, Cl. 159-13.100.

Elmore, Charles D. Method and composition for treatment of plants. 4,645,682, 2-24-87, Cl. 427-4.000.

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- Barr, John T., IV; Neering, Michael J.; Fullmer, Douglas E.; Oblad, Roger P.; Cannon, Wayne C.; and Elmore, Glenn E., 4,641,086, Cl. 324-77.00R.

Elmore, Jimmy D., and Goff, Elizabeth S., to Celanese Corporation. Process for the ammonium hydroxide hydrolysis of polymers of acetoxystyrene to polymers of vinylphenol. 4,678,843, 7-7-87, Cl. 525-378.000.

Elmore, Jimmy D.; and Schweri, Raphael J., to Celanese Corporation. Process for the preparation of poly (vinylphenol) from poly (acetoxystyrene). 4,689,371, 8-25-87, Cl. 525-374.000.

Elmore, Lester C., to Pulsepower, Inc. Automatic weapons effect signature simulator. 4,654,008, 3-31-87, Cl. 434-16.000.

Elmquist, Lyle F.; Howland, Warren W.; and Karl, Curtis L., to Henkel Corporation. Thickeners having two ionic components and use thereof in aqueous compositions. 4,655,943, 4-7-87, Cl. 252-8.551.

Elmquist, Steven A.; and Boesger, Leonard E., to W. S. Tyler, Incorporated. Drilling mud cleaning system. 4,696,353, 9-29-87, Cl. 175-206.000.

Elms, Robert T.: *See—*

- Lagree, James L., and Elms, Robert T., 4,701,673, Cl. 315-244.000.

Elna Company Ltd.: *See—*

- Morimoto, Takeshi; Matsubara, Toshiya; Hamatani, Yoshiki; Iwano, Naoto; Shimizu, Hideo; Komatsu, Shigeo; and Yamada, Hidemi, 4,689,724, Cl. 361-433.000.

Elnick, Rodney K.: *See—*

- Frost, Charles E.; and Elnick, Rodney K., 4,698,885, Cl. 29-156.50A.

Elo, James C.: *See—*

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- Gibson, William A.; and Talmage, John E., Jr., 4,659,873, Cl. 178-18.000.
- Gibson, William A.; and Talmage, John E., Jr., 4,661,655, Cl. 178-18.000.
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- Andersen, Arve, 4,709,836, Cl. 222-490.000.

Eloranta, Jarmo, to Rauma-Repola Oy. Mode of construction of lifting mechanisms for a jack-up platform and lifting mechanism for a jack-up platform. 4,678,165, 7-7-87, Cl. 254-97.000.

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ELP Products Ltd.: *See—*

- Macierewicz, Jacek J., 4,640,780, Cl. 210-512.200.
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Elpan, Aps: *See—*

- Keldmann, Erick C. V., 4,679,617, Cl. 165-56.000.

Elpatronic AG: *See—*

- Frei, Matthias, 4,674,435, Cl. 118-69.000.
- Kramer, Felix, 4,700,865, Cl. 220-274.000.
- Kramer, Felix, 4,710,088, Cl. 414-113.000.
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- Opprecht, Paul; Urech, Werner; and Opprecht, Jurg, 4,637,521, Cl. 220-274.000.
- Opprecht, Paul, 4,652,720, Cl. 219-82.000.
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- Portmann, Niklaus; and D'Aniello, Alfonso, 4,641,008, Cl. 219-84.000.
- Tengler, Hermann; and Mettler, Paul, 4,709,132, Cl. 219-110.000.
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Elpern, David G., to Garrett Corporation, The. Electronic turbocharger control. 4,656,834, 4-14-87, Cl. 60-602.000.

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- Beutter, Ulrich; and Gronle, Hansgeorg, 4,676,514, Cl. 277-235.00B.
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Elrod, Philip C., to Showdata, Inc. System and method for registering and keeping track of the activities of attendees at a trade show, convention or the like. 4,654,793, 3-31-87, Cl. 364-401.000.

Elrod, Scott A., to Xerox Corporation. Capillary wave controllers for nozzleless droplet ejectors. 4,638,338, 1-20-87, Cl. 346-140.00R.

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El-Saie, Ahmed A., and Campbell, David W., to Conoco Inc. Revolving separator. 4,676,810, 6-30-87, Cl. 55-203.000.

Elsasser, Dieter; and Schuh, Bernhard, to Papst-Motoren GmbH & Co. KG. Disk storage drive. 4,658,312, 4-14-87, Cl. 360-97.000.

Elsasser, Heinrich; and Kolb, Wolfgang, to Sulzer Morat GmbH. Electromagnetic patterning system on a knitting machine. 4,688,404, 8-25-87, Cl. 66-219.000.

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- Kuhnemundt, Gerhard; and Elsasser, Heinz, 4,703,248, Cl. 323-300.000.

Elsasser, Martin, to International Standard Electric Corporation. Circuit arrangement for a voice-controlled hands-free telephone facility. 4,648,110, 3-3-87, Cl. 379-390.000.

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- Dicke, Hans-Rudolf; Bottenbruch, Ludwig; Wedemeyer, Karlfried; Paetz, Klaus-Christian; and El Sayed, Aziz, 4,701,515, Cl. 528-176.000.
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- Crawford, Carl R.; and Freundlich, David A., 4,714,997, Cl. 364-414.000.
- Freundlich, David A., 4,670,840, Cl. 364-414.000.
- Sohval, A. Robert, 4,689,809, Cl. 378-136.000.

Elscint Ltd.: *See—*

- Barnea, Daniel, 4,669,103, Cl. 378-10.000.
- Beer, Steve, 4,682,112, Cl. 324-322.000.
- Beer, Steve, 4,703,276, Cl. 324-319.000.
- Blass, Judd; and Keren, Hanan, 4,691,163, Cl. 324-318.000.
- Egozi, Avihay, 4,696,030, Cl. 379-167.000.
- Fenster, Paul; and Shimoni, Yair, 4,685,146, Cl. 382-54.000.
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- Keren, Hanan, 4,689,562, Cl. 324-307.000.
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- Keren, Hannan, 4,648,405, Cl. 128-653.000.
- Melman, Haim, 4,638,355, Cl. 358-111.000.
- Paltiel, Zvi, 4,644,280, Cl. 324-309.000.
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- Rappaport, Michael L.; and Blumenau, Leif, 4,713,945, Cl. 62-514.00R.
- Reuveni, Asher, 4,682,291, Cl. 364-414.000.
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Else, Mark: *See—*

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Elsenbaumer, Ronald L.: *See—*

- Baughman, Ray H.; Elsenbaumer, Ronald L.; Iqbal, Zafar; Miller, Granville G.; and Eckhardt, Helmut, 4,646,066, Cl. 340-540.000.

Jen, Kwan-Yue A.; and Elsenbaumer, Ronald L., 4,711,742, Cl. 252-500.000.

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Elsey, Paul. Portable bandsaw mill. 4,660,454, 4-28-87, Cl. 83-797.000.

Elsfelder, Leonard. Display tray with reversible inserts. 4,685,568, 8-11-87, Cl. 206-561.000.

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Elsholz, John F. Shear-type nail clipper. 4,644,644, 2-24-87, Cl. 30-28.000.

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Eibl, Johann; Schwarz, Otto; Elsinger, Fritz; Wober, Gunter; Philapitsch, Anton; Linnau, Yendra; Dorner, Friedrich; Trambauer, Karl; and Frechinger, Wolfgang, 4,640,834, Cl. 424-94.000.

Elslager, Edward F.: *See—*

Bigge, Christopher F.; Elslager, Edward F.; French, James C.; Graham, Blanche D.; Hokanson, Gerard C.; Mamber, Stephen W.; Smitka, Tim A.; Tunac, Josefino B.; and Wilton, John H., 4,657,909, Cl. 514-249.000.

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Bargholtz, William E.; and Molison, Robert E., 4,700,529, Cl. 53-399.000.

Elsner, Ernst, to J.M. Voith GmbH. Drive unit, particularly for short-haul vehicles. 4,680,986, 7-21-87, Cl. 74-866.000.

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Elsner, Hans; and Prendel, Peter, to U.S. Philips Corporation. Power line surge protector with internal shielding. 4,669,027, 5-26-87, Cl. 361-111.000.

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Elsner, Uwe: *See—*

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Elsohly, Hala N.: *See—*

Bedford, John A.; Elsohly, Hala N.; Wilson, Marvin C.; and Turner, Carlton E., 4,696,819, Cl. 424-195.100.

Elsom, Simon M.: *See—*

Chorley, Bernard J.; Parkin, Graeme I. P.; Wichmann, Brian A.; and Elsom, Simon M., 4,634,807, Cl. 178-22.080.

Elson, Edward E.; Bolwell, Farley W.; Manska, Wayne E.; and Shoffner, Stanley G., to American Hospital Supply Corporation. Tubing occlusion clip. 4,643,389, 2-17-87, Cl. 251-10.000.

Elson, Edward E.: *See—*

Swendson, David L.; Elson, Edward E.; Lieber, Clement; and Rold, Michael D., 4,651,751, Cl. 128-786.000.

Elson, John P.: *See—*

Yun, Kyung W.; Jones, Othel L.; Long, Gerald M.; and Elson, John P., 4,685,489, Cl. 137-543.150.

Elspan International Limited: *See—*

Ellen, Peter E., 4,676,045, Cl. 52-745.000

Elspass, Marold, to Rheinmetall GmbH. Armored vehicle for supplying ammunition to a self-propelled artillery weapon. 4,648,305, 3-10-87, Cl. 89-36.080.

Elspass, Marold, to Rheinmetall GmbH. Gun barrel with reduced, repeative jump angle. 4,649,797, 3-17-87, Cl. 89-14.050.

Elstein, Rick A.; Faret, Svein; and Gazzo, John J., to Innovating Training Products, Inc. Sports technique and reaction training system. 4,702,475, 10-27-87, Cl. 273-1.0GC.

Elster, Werner; Koch, Horst; Ost, Gustav; Simon, Werner; Deckelmann, Karl; and Taitl, Ino, to W.C. Heraeus GmbH. Electrical test connector for simultaneous testing of a plurality of electrical components. 4,659,986, 4-21-87, Cl. 324-158.00F.

Elstner, Erich; Schleifer, Karl-Heinz; Gotz, Friedrich; Sedewitz, Barbara; Roder, Albert; Mollering, Hans; and Seidel, Hans, to Boehringer Mannheim GmbH. Pyruvate oxidase. 4,666,832, 5-19-87, Cl. 435-25.000.

Elstner, Ingo: *See—*

Buschmann, Rudiger; Ganz, Rudolf; Willmann, Gerd; Wirth, Ludwig; Elstner, Ingo; and Jeschke, Peter, 4,710,480, Cl. 501-95.000.

Elston, Malcolm: *See—*

Jones, David W.; and Elston, Malcolm, 4,703,328, Cl. 343-704.000.

Elston, Thomas P., to G S I Holdings (Proprietary) Limited. Nozzle. 4,678,125, 7-7-87, Cl. 239-589.100.

Elsworth, Adrian J.; Daniell, Michael G.; Zwaan, Paul; and Stewart, David P. M., to Fisher & Paykel Limited. Methods of and/or apparatus for humidifying gases. 4,708,831, 11-24-87, Cl. 261-130.000.

Elsworth, John K.; Nownahal, Ali; and Wilson, Kevin, to Pratt & Whitney Canada Inc. Coupling for a fuel manifold. 4,708,371, 11-24-87, Cl. 285-13.000.

Eltac Nogler & Daum KG: *See—*

Oppitz, Hans, 4,645,913, Cl. 219-549.000.

Oppitz, Hans, 4,678,554, Cl. 204-299.00R.

Eltech Systems Corporation: *See—*

Beer, Henri B.; Van Den Keybus, Franz A. M.; and Suykerbuyk, Lucovicus F. M., 4,670,114, Cl. 204-96.000.

Chevigne, Michel; Darracq, Dominique; and Wiaux, Jean-Pol, 4,689,077, Cl. 75-233.000.

Debely, Pierre E., 4,647,405, Cl. 252-518.000.

de Nora, Vittorio; Gauger, Jurgen F.; Fresnel, Jean-Marie Adorian, Iudita L.; and Duruz, Jean-Jacques R., 4,650,552, C 204-67.000.

Duruz, J. J., 4,683,037, Cl. 204-64.00R.

Duruz, Jean-Jacques, 4,680,094, Cl. 204-67.000.

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Fenn, Robert W., III; Pless, Emory J.; Harris, Richard L.; and O'Leary, Kevin, 4,701,250, Cl. 204-283.000.

Hruska, Louis W.; and Tsai, Shan-Pu, 4,665,120, Cl. 524-452.000.

Mitchell, Thomas A.; Bennett, John E.; Brown, Claude M.; and Pohto, Gerald R., 4,708,888, Cl. 427-126.100.

Niksa, Marilyn J.; Pohto, Gerald R.; Lakatos, Leslie K.; Wheeler, Douglas J.; Niksa, Andrew J.; and Schue, Thomas J., 4,693,94 Cl. 429-27.000.

Sane, Ajit Y., 4,693,989, Cl. 501-96.000.

Schraff, Raymond J.; Miller, Thomas M.; and Labas, Nicholas, 4,640,202, Cl. 110-336.000.

Solomon, Frank; Grun, Charles; Abrahamson, Donald W.; Stewart, James J.; and Niksa, Marilyn J., 4,687,553, C 204-16.000.

Vauss, Elvin M., Jr.; and Niksa, Andrew J., 4,657,650, C 204-242.000.

Eltek S.p.A.: *See—*

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Fornasari, Paolo, 4,711,270, Cl. 137-625.500.

Elter, Claus; and Schoening, Josef, to Hochtemperatur-Reaktorbau GmbH. Prestressed concrete pressure vessel, in particular for a nuclear reactor installation. 4,696,790, 9-29-87, Cl. 376-296.000.

Elter, Claus: *See—*

Schoening, Josef; and Elter, Claus, 4,657,732, Cl. 376-314.000.

Schoening, Josef; Elter, Claus; and Becker, Gerhard, 4,661,313, C 376-295.000.

Schoening, Josef; Elter, Claus; and Rautenberg, Jurgen, 4,692,30 Cl. 376-391.000.

Schoening, Josef; and Elter, Claus, 4,713,213, Cl. 376-299.000.

Elter, Herbert: *See—*

Wahl, Detlev; Elter, Herbert; and Julien, Hermann, 4,646,574, C 73-741.000.

Eltex-Elektrostatik Gesellschaft mbH: *See—*

Hahne, Ernst A.; and Kunzig, Hermann, 4,686,069, Cl. 261-92.00

Elthes, Aristina: *See—*

Elthes, Ludovic L.; and Elthes, Aristina, 4,704,281, Cl. 424-195.10

Elthes, Ludovic L.; and Elthes, Aristina, to Directia Sanitara a Judetului Neamt Laboratoarele Plantavorel Medicinal. Vegetable composition for treating some hepatic and biliary diseases. 4,704,281, 11-3-87, Cl. 424-195.100.

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Postle, Stephen R.; Elton, Peter J.; and Gregory, David P., 4,649,026, Cl. 422-56.000.

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El-Toukhy, Ahmed: *See—*

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Eltoukhy, Atef, to Trimedia Corporation. Pallet-loading system 4,697,974, 10-6-87, Cl. 414-331.000.

Eltrax Systems, Inc.: *See—*

Raisleger, Ronald J., 4,645,916, Cl. 235-494.000.

Eltreva AG: *See—*

Emmer, Hans, 4,704,831, Cl. 52-235.000

Eltro GmbH: *See—*

Ruger, James; Strauss, Manfred; and Welz, Wolfgang, 4,643,51 Cl. 350-6.600.

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Eltron Research, Inc.: *See—*

Sammells, Anthony F., 4,668,593, Cl. 429-191.000.

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Eltze, Georg; Kluegl, Wendelin; and Thoma, Frank, to Daimler-Benz Aktiengesellschaft. Speed governor for injection pumps in internal combustion engines. 4,706,627, 11-17-87, Cl. 123-365.000.

Elverdam, Peter, to AB Volvo. Gearbox synchronizer. 4,712,66 12-15-87, Cl. 192-53.00F.

Elvin, Frank J., to ChemCat Corporation. Catalyst demetallization and process for using demetallized catalyst. 4,686,197, 8-11-87, Cl 502-22.000.

Elvin, Pamela. Tandem infant carrier. 4,657,269, 4-14-87, C 280-47.380.

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Vogler, Franz, 4,662,022, Cl. 15-97.00R.

Elwood, Clifford C., to Nabisco Brands, Inc. Apparatus and method for continuously cutting shredded grain product. 4,656,908, 4-14-87, Cl 83-863.000.

ELXSI: *See—*

Massey, Edwin M., 4,694,123, Cl. 174-117.0FF.

Ely, Gary W., to COE Manufacturing Company, The. Method and apparatus for controlling rotary veneer lathe knife to optimize material usage. 4,672,552, 6-9-87, Cl. 364-475.000.

Ely, Gary W.: *See—*
  Browning, Robert A., Jr.; Ely, Gary W.; and Hayes, Leonard L., 4,708,180, Cl. 144-213.000.

Ely, Glen W. Solar conductive spa water heater and safety cover. 4,660,545, 4-28-87, Cl. 126-452.000.

Ely, Glenn L., to Intersil, Inc. Electronic static switched-latch frequency divider circuit with odd number counting capability. 4,646,331, 2-24-87, Cl. 377-47.000.

Ely, Glenn L., to intersil, Inc. Non-restricted level shifter. 4,703,199, 10-27-87, Cl. 307-264.000.

Ely, Richard I., to Burroughs Corporation. Electro-optical system using light modulation. 4,654,892, 3-31-87, Cl. 455-617.000.

Ely, Roger L.; and Langenberg, Marvin B., to Research Chemical. Coating remover and wood restorative compositions and methods of using same. 4,652,393, 3-24-87, Cl. 252-158.000.

Ely, Stephen R.: *See—*
  Carlson, Ronald F.; Ely, Stephen R.; Feinstein, Allen I.; and Ghanayem, Ibrahim. 4,677,240, Cl. 585-488.000.

Ely, William F., to Corning Glass Works. Method of making a sealing glass suspension. 4,636,260, 1-13-87, Cl. 106-198.000.

Elzer, Albert: *See—*
  Hoffmann, Gerhard; Hofmann, Reiner; and Elzer, Albert, 4,710,446, Cl. 430-281.000.
  Schornick, Gunnar; Elzer, Albert; and Hofmann, Reiner, 4,714,751, Cl. 528-103.000.

Elzett Muvek: *See—*
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EMA Company: *See—*
  Guglielmo, Richard J., Sr., 4,661,400, Cl. 428-255.000.
  Guglielmo, Richard J., Sr., 4,698,097, Cl. 106-15.050.

Ema, Takehiro, to Kabushiki Kaisha Toshiba. X-ray imaging system. 4,688,242, 8-18-87, Cl. 378-154.000.

EMAG Maschinenfabrik GmbH: *See—*
  Scholl, Herbert, 4,647,268, Cl. 414-416.000.

Emanis, Russell B.; Wallace, Don L.; Wolfe, Travis W.; and Emanis, Waverly B. Earlobe treatment apparatus. 4,636,203, 1-13-87, Cl. 604-257.000.

Emanis, Waverly B.: *See—*
  Emanis, Russell B.; Wallace, Don L.; Wolfe, Travis W.; and Emanis, Waverly B., 4,636,203, Cl. 604-257.000.

Emanuelli, Dino J., to Greenfield Industries, Inc. Threading tap. 4,708,542, 11-24-87, Cl. 408-144.000.

Emanuelson, Bjorn, to Autoliv Developmen. AB. Seat belt anchorage. 4,679,853, 7-14-87, Cl. 297-468.000.

Emberger, Roland; Kopsel, Manfred; Bruning, Jurgen; Hopp, Rudolf; and Sand, Theodor, to Haarmann & Reimer GmbH. Use of 5-methyl-hept-2-en-4-one as a fragrance and/or flavor. 4,654,168, 3-31-87, Cl. 252-522.00R.

Emberger, Roland: *See—*
  Bruning, Jurgen; Emberger, Roland; Hopp, Rudolf; Kopsel, Manfred; Sand, Theodor; and Werkhoff, Peter, 4,647,662, Cl. 544-5.000.
  Bruning, Jurgen; Emberger, Roland; Hopp, Rudolf; and Sand, Theodor, 4,710,392, Cl. 426-534.000.
  Dupper, Walter; Emberger, Roland; Hack, Kurt; Lattner, Manfred; Nickolay, Helmut; Riedel, Karl; and Schollhammer, Richard, 4,635,321, Cl. 19-0.250.

Embrex Inc.: *See—*
  Hebrank, John H., 4,681,063, Cl. 119-1.000.

Embrey, Wallace E.: *See—*
  Swearingen, Loren L.; Embrey, Wallace E.; LaTulip, Randy J.; Earls, Jim D.; and McConchie, Garnet E., 4,701,529, Cl. 546-251.000.

Embry, Marjorie L. Animal waste container. 4,646,684, 3-3-87, Cl. 119-1.000.

Embury, Janon F., Jr.: *See—*
  Sellman, Leonard R.; Embury, Janon F., Jr.; and Beyth, Werner W., 4,704,966, Cl. 102-334.000.

EMC Controls, Inc.: *See—*
  Circo, Miles M., 4,677,614, Cl. 370-86.000.

EMCO Filtration Systems, Inc.: *See—*
  Eckardt, Fred H., 4,686,042, Cl. 210-386.000.

Emco Industries, Inc.: *See—*
  Englehardt, Raymond R.; and Ebeling, Franklin D., 4,669,940, Cl. 414-303.000.

EMCO Limited: *See—*
  Diephuis, Peter W.; and Thompson, Arthur D., 4,699,170, Cl. 137-454.500.

Emco Wheaton, Inc.: *See—*
  Bower, Allen M.; and Roberts, Robert D., 4,649,970, Cl. 141-302.000.
  Bower, Allen M.; Butterfield, Eric J.; and Roberts, Robert D., 4,697,624, Cl. 141-208.000.

Emcore, Inc.: *See—*
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  Saupe, Martin; Dauernheim, Hans; and Markl, Màximillian, 4,696,645, Cl. 433-125.000.

Emde, Carsten, to Fresnius AG. Medical tube. 4,692,152, 9-8-87, Cl. 604-164.000.

Emde, Hugo: *See—*
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  Munning, Hans; Bock, Jurgen; Oldach, Bernd; Ladic, Josef; Rauert, Max-Otto; Emde, Hugo; Petzsch, Dietrich; and de Baan, Johannes J., 4,673,067, Cl. 188-299.000.

Emelyanov, Sergei I.: *See—*
  Chazov, Evgeny I.; Smirnov, Vladimir N.; Vinogradov, Valentin A.; Titov, Mikhail I.; Penin, Vladimir A.; Giorgadze, Alexandr K.; Titova, Galina P.; Bespalova, Zhanna D.; Pekelis, Boris L.; Permyakov, Nikolai K.; Emelyanov, Sergei I.; and Dzhikia, Alexandr A., 4,695,622, Cl. 530-329.000.

Emelyanov, Viktor A.: *See—*
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Emenaker, Leo J.: *See—*
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Emergent Technologies Corporation: *See—*
  Bersin, Richard L., 4,687,544, Cl. 156-643.000.
  Bersin, Richard L., 4,689,112, Cl. 156-643.000.
  Bersin, Richard L., 4,699,689, Cl. 156-643.000.

Emerick, Alan J.: *See—*
  Darrow, Russell E.; Emerick, Alan J.; and Larnerd, John D., 4,676,426, Cl. 228-125.000.

Emerson, Andrew C., and Foster, Stephen A., to Ling Dynamic Systems Limited. Electrodynamic shakers. 4,641,050, 2-3-87, Cl. 310-27.000.

Emerson Electric Co.: *See—*
  Adams, John T.; and Goodale, John B., 4,712,996, Cl. 431-20.000.
  Baker, Gerald N.; and Fischer, Carl R., 4,689,507, Cl. 310-62.000.
  Baker, Gerald N.; and Fischer, Carl R., 4,689,511, Cl. 310-88.000.
  Behr, Joseph L., 4,685,309, Cl. 62-212.000.
  Bowsky, Benjamin; Honkomp, Glenn A.; Burrows, Larry G.; and Wilson, Edward E., 4,702,976, Cl. 429-181.000.
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  Claghorn, Roger O.; and Metzger, James I., Jr., 4,700,031, Cl. 200-153.0LA.
  Cox, Karmen D., 4,694,275, Cl. 340-347.00P.
  Cunningham, Donald M., 4,650,972, Cl. 219-549.000.
  Cunningham, Donald M.; Bartels, Mark A.; and Markum, T. Randall, 4,687,905, Cl. 219-336.000.
  Cunningham, Donald M., 4,689,470, Cl. 219-213.000.
  Eccardt, Curtis J., 4,677,920, Cl. 108-69.000.
  Gehrt, Louis M., 4,661,732, Cl. 310-68.00E.
  Gehrt, Louis M., 4,686,401, Cl. 310-68.00E.
  Hansen, John M., 4,665,286, Cl. 200-80.00R.
  Hildebrandt, Eugene F., 4,658,107, Cl. 200-80.00R.
  Hildebrandt, Eugene F., 4,658,196, Cl. 318-793.000.
  Hildebrandt, Eugene F.; and Ottersbach, Thomas V., 4,697,860, Cl. 439-374.000.
  Johnson, Harold R., III; Phillips, Allyn E.; Carrigan, Erwin R.; Virgo, Richard A.; and Mickelson, James E., 4,697,675, Cl. 192-7.000.
  Kieffer, Vernon E.; and Kliethermes, Andrew J., 4,658,492, Cl. 29-564.600.
  Langowski, Emil J., 4,672,858, Cl. 74-424.80R.
  LaRou, Albert M., 4,671,681, Cl. 384-466.000.
  LaRou, Albert M., 4,673,302, Cl. 384-548.000.
  Mak, Sioe T., 4,658,238, Cl. 340-310.00R.
  Mertz, Denny W., 4,681,297, Cl. 251-45.000.
  Munson, Robert D., 4,641,061, Cl. 315-210.000.
  Newberg, Barry M., 4,710,037, Cl. 384-537.000.
  Peachee, C. Theodore; and Crow, William D., 4,670,631, Cl. 200-80.00R.
  Phillips, Charles F., 4,642,074, Cl. 474-156.000.
  Reed, Gueary T., Jr., 4,661,892, Cl. 362-226.000.
  Reed, Gueary T., Jr., 4,705,255, Cl. 248-317.000.
  Schmitt, Thomas J., 4,694,932, Cl. 182-109.000.
  Sciuto, George J., 4,637,881, Cl. 210-689.000.
  Snider, S. Duke; and May, Kevin M., 4,670,677, Cl. 310-63.000.
  Stanek, Terrence L.; and Lathrop, David R., 4,634,345, Cl. 416-244.00R
  Steiner, Robert E.; Cox, Karmen D.; Terpstra, Daniel A.; Metzger, James J., Jr.; and Plume, Steven H., 4,641,557, Cl. 83-71.000.
  Tuggle, Lloyd H.; Baker, Michael; and Franke, Jeffery S., 4,674,146, Cl. 15-330.000.
  Welch, Richard E.; and Newman, Robert L., 4,698,614, Cl. 338-22.00R.

Emerson, William D.; Hill, Deborah J.; Loeb, Karen C.; Mizrahi, Albert; Schlegel, Charles T.; and Scott, Lowell C., to American Telephone and Telegraph Company, AT&T Information Systems Inc. Integrated message service system. 4,646,346, 2-24-87, Cl. 379-214.000.

Emery, David L. Simultaneous communication system using time delays. 4,644,524, 2-17-87, Cl. 370-29.000.

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  Gonzalez, Avelino J., Murphy, Franklin J.; Emery, Franklin T.; Weyant, Perry A.; and Craig, William G., 4,698,756, Cl. 364-557.000.

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- Emery, John C.: *See—*
  - Eccleston, Larry E.; and Emery, John C., 4,716,398, Cl. 340-347.0DA.
- Emery, Keith A.: *See—*
  - Osterwald, Carl R.; and Emery, Keith A., 4,712,063, Cl. 324-158.00D.
- Emery, Phillip L.: *See—*
  - Dresen, William L.; Price, William F.; Emery, Phillip L.; Breezer, Harlan W.; and Holmes, Robert R., 4,693,507, Cl. 296-39.00R.
- Emery, Richard T.: *See—*
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- Emery, Walter C.: *See—*
  - Persem, Jake; Quinn, Mike; Emery, Walter C.; and Bracht, Philip E., 4,633,672, Cl. 62-126.000.
- Emhart Industries, Inc.: *See—*
  - Andrejasich, Raymond J.; and Kidd, Roy E., 4,646,069, Cl. 340-603.000.
  - Blumenfeld, John F., 4,655,812, Cl. 65-346.000.
  - Blumenfeld, John F., 4,662,927, Cl. 65-162.000.
  - Blumenfeld, John F.; and Bubon, Frank, 4,680,051, Cl. 65-346.000.
  - Chandler, Brian L., 4,660,026, Cl. 340-604.000.
  - Clarkson, Bruce A.; Frere, Ronald J.; Loughlin, Thomas G.; Taylor, William W., Jr.; and Mongeau, Peter 4,712,398, Cl. 70-276.000.
  - Claypool, Mark P.; and Weber, Gary C., 4,653,628, Cl. 198-395.000.
  - Claypool, Mark P.; and Battersby, Patrick T., 4,672,200, Cl. 250-227.000.
  - Coash, Ronald J., 4,684,853, Cl. 318-16.000.
  - Cole, Ronald E., 4,697,432, Cl. 62-233.000.
  - Dawson, Brian D.; and Leacock, James R., 4,682,348, Cl. 379-37.000.
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  - Douglas, Robert J.; Doughty, Robert L.; Mungovan, John P.; Andersen, Robert P.; and Abbott, Vaughan, 4,687,502, Cl. 65-164.000.
  - Duga, Robert J., 4,667,533, Cl. 74-584.000.
  - Foster, Thomas V., 4,657,048, Cl. 137-884.000.
  - Foster, Thomas V., 4,657,574, Cl. 65-265.000.
  - Foster, Thomas V., 4,661,143, Cl. 65-362.000.
  - Foster, Thomas V., 4,678,492, Cl. 65-74.000.
  - Foster, Thomas V.; Jones, Stanley P.; and Alderson, David L., 4,682,996, Cl. 65-25.100.
  - Foster, Thomas V., 4,701,202, Cl. 65-265.000.
  - Frolov, Georgy; and Surko, Walter E., Jr., 4,665,583, Cl. 16-52.000.
  - Gehman, Stacy E.; and Ruddell, Kevin T., 4,672,365, Cl. 340-539.000.
  - Hart, Leroy, 4,635,453, Cl. 70-134.000.
  - Hirt, Walter, 4,652,291, Cl. 65-68.000.
  - Hirt, Walter, 4,698,087, Cl. 65-172.000.
  - Hirt, Walter, 4,704,154, Cl. 65-233.000.
  - Japenga, Robert J.; and Scott, Paul F., 4,641,269, Cl. 364-473.000.
  - Jones, Stanley P., 4,657,573, Cl. 65-265.000
  - Keller, Rene, 4,649,503, Cl. 364-552.000.
  - Kidd, Roy E., 4,644,354, Cl. 340-870.270.
  - Kulig, Constantine W., 4,690,703, Cl. 65-265.000
  - Kulig, Constantine W., 4,699,643, Cl. 65-332.000.
  - Kulikauskas, Joseph A., 4,639,263, Cl. 65-158.000.
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  - Liska, Timothy J.; and Scott, Paul F., 4,685,947, Cl. 65-29.000.
  - Liska, Timothy J.; and Scott, Paul F., 4,705,552, Cl. 65-158.000.
  - Martin, Hans, 4,636,623, Cl. 235-436.000.
  - Matievic, Miroslav, 4,697,932, Cl. 368-255.000.
  - Melody, Brian; and Eickelberg, Ernest W., 4,664,883, Cl. 419-2.000.
  - Merchant, David E., 4,692,838, Cl. 361-380.000.
  - Merchant, David E., 4,695,686, Cl. 200-61.860.
  - Mussmann, Sara M.; and Kidd, Roy E., 4,682,157, Cl. 340-605.000.
  - Nebelung, Hermann H., 4,636,241, Cl. 65-260.000.
  - Nebelung, Hermann H.; Huber, Robert; and Futterknecht, Fritz, 4,637,827, Cl. 65-235.000.
  - Nebelung, Hermann H.; Gruninger, William; and Huber, Robert, 4,654,069, Cl. 65-163.000.
  - Nebelung, Hermann H., 4,655,813, Cl. 65-359.000.
  - Nebelung, Hermann H., 4,657,474, Cl. 414-744.00A.
  - Nebelung, Hermann H.; and Futterknecht, Fritz, 4,659,358, Cl. 65-360.000.
  - Nebelung, Hermann H.; and Knoth, Werner-Dieter, 4,678,494, Cl. 65-261.000.
  - Nebelung, Hermann H., 4,695,307, Cl. 65-242.000.
  - Scott, Charles E., 4,672,233, Cl. 307-141.000.
  - Scott, Paul F.; and Brady, Dale J., 4,664,521, Cl. 356-240.000.
  - Shedigian, Vandos, 4,642,731, Cl. 361-319.000.
  - Shedigian, Vandos, 4,679,119, Cl. 361-315.000.
  - Sidler, Werner, 4,636,238, Cl. 65-29.000.
  - Smith, John W.; and Lipp, Ellis P., 4,673,239, Cl. 439-746.000.
  - Smock, Steven W.; and Richmond, James W., 4,636,595, Cl. 200-38.00R.
  - Smock, Steven W.; and Hueber, William J., 4,650,945, Cl. 200-283.000.
  - Vajda, Vladimir; Nebelung, Hermann H.; and Piesbergen, Ulrich, 4,662,923, Cl. 65-29.000.
  - Weaver, Robert F., 4,641,422, Cl. 29-598.000.
  - Williams, Reade; and Westlund, Kenneth P., 4,679,075, Cl. 358-106.000.
  - Williams, Reade; and Scott, Paul F., 4,713,536, Cl. 250-223.00B.
  - Winzer, Frederick W., 4,684,390, Cl. 65-133.000.
- Emi, Kenji: *See—*
  - Sayo, Kosaku; Tani, Seijiro; Miyamoto, Seigo; Emi, Kenji; and Fukushima, Toshihiko, 4,653,288, Cl. 62-210.000.
- EMI Limited: *See—*
  - Ashton, Mark; and Hounsfield, Godfrey N., 4,687,979, Cl. 318-638.000.
  - Axford, Walter J.; Trumble, Francis R.; and Turner, Charles W., 4,680,591, Cl. 343-853.000.
  - Coates, Philip V.; and Eaton, Brian J., 4,682,229, Cl. 358-166.000.
  - Hounsfield, Godfrey N., 4,639,941, Cl. 378-11.000.
  - Hounsfield, Godfrey N.; and Williams, Anthony M., 4,702,667, Cl. 414-735.000.
  - Johnson, Nigel, 4,698,673, Cl. 358-140.000.
  - LeMay, Christopher A. G., 4,642,540, Cl. 318-568.000.
  - Robins, Ian; Ross, John F.; and Webb, Brian C., 4,650,561, Cl. 204-416.000.
  - Williams, Anthony M., 4,645,407, Cl. 414-730.000.
- Emi, Makoto: *See—*
  - Ichikawa, Toshiji; Takahara, Kazuaki; Shimoda, Kazuhiro; Setta, Yukio; and Emi, Makoto, 4,708,800, Cl. 210-500.230.
- Emig, Peter: *See—*
  - Hettche, Helmut; Emig, Peter; and Engel, Jurgen, 4,673,666, Cl. 514-23.000.
- Emigh, Stuart G.: *See—*
  - White, Maurice A.; and Emigh, Stuart G., 4,671,064, Cl. 60-517.000.
- Emil Schenker AG: *See—*
  - Karpf, Kurt; and Bobst, Franz, 4,651,833, Cl. 173-136.000.
  - Karpf, Kurt, 4,657,552, Cl. 623-23.000.
- Emkey, William L., to American Telephone and Telegraph Company, and AT&T Bell Laboratories. Non-tapered, butt-coupled, fused-fiber optical coupler and method of forming the same. 4,666,234, 5-19-87, Cl. 350-96.150.
- Emkey, William L.; and Jack, Curtis A., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Multimode fiber-lens optical coupler. 4,701,011, 10-20-87, Cl. 350-96.180.
- EML Environmental Simulations Inc.: *See—*
  - Moffatt, Michael; LePage, James; and Englar, Gerald, 4,641,918, Cl. 350-125.000.
- Emler, Don R.; and Thomas, Glenn M. Flow enhancer for reed inlet valves. 4,690,107, 9-1-87, Cl. 123-65.00V.
- Emmel, Henry J.: *See—*
  - Clark, James A.; and Emmel, Henry J., 4,690,519, Cl. 350-515.000.
- Emmel, John J., to Minnesota Mining and Manufacturing Company. Tabbed tape pad. 4,650,706, 3-17-87, Cl. 428-40.000.
- Emmenegger, Heinz. Gold alloys and galvanic bath for the electrolytic deposit thereof. 4,687,557, 8-18-87, Cl. 204-44.000.
- Emmenthal, Klaus-Dieter, to Volkswagenwerk Aktiengesellschaft. System for continuous fuel injection. 4,646,706, 3-3-87, Cl. 123-585.000.
- Emmenthal, Klaus-Dieter; and Neumann, Joachim, to Volkswagen Aktiengesellschaft. Distribution device for a two-phase flow. 4,712,581, 12-15-87, Cl. 137-561.00A.
- Emmer, Eric D., to Chrysler Motors Corporation. Tapered piston pin. 4,677,722, 7-7-87, Cl. 29-156.50A.
- Emmer, Eric D., to Chrysler Motors Corporation. Tapered piston pin. 4,712,941, 12-15-87, Cl. 403-151.000.
- Emmer, Hans, to Eltreva AG. Facade wall. 4,704,831, 11-10-87, Cl. 52-235.000.
- Emmerich, Claude L.: *See—*
  - Schaffer, Irving; and Emmerich, Claude L., 4,684,367, Cl. 604-140.000.
- Emmerich, Kenneth C., to Fansteel Inc. Coolant sleeve for mining tools. 4,678,238, 7-7-87, Cl. 299-81.000.
- Emmerich, Robert D.; and Christie, Leslie G., Jr., to Hewlett-Packard Company. Anti-adhesion device for magnetic tape drive. 4,656,534, 4-7-87, Cl. 360-71.000.
- Emmert, Deborah A.: *See—*
  - Gleason, Francis E.; Emmert, Deborah A.; McClure, Matthew; and McEwan, Ronald W., 4,664,710, Cl. 106-23.000.
- Emmert, M[illegible]fred. Device for producing mechanical force by pressure of a f[illegible] 4,[illegible]3,724, 1-27-87, Cl. 92-84.000.
- Emme[illegible] Walter, to Deere & Company. Crop divider mounting arrangen[illegible] for [illegible] harvester. 4,700,537, 10-20-87, Cl. 56-314.000.
- Emmett, J[illegible] Slater, Robert A.; and Warrington, Brian H., to Smith Kline & [illegible]h Laboratories Ltd. Heterocyclic compounds having inotropic activity. 4,657,906, 4-14-87, Cl. 514-234.000.
- Emmi, Francis: *See—*
  - Egitto, Frank D.; Emmi, Francis; Mlynko, Walter E.; and Susko, Robin A., 4,654,115, Cl. 156-643.000.
- Emmons, Daniel H., to Nalco Chemical Company. Low molecular weight polyvinyl sulfonate for low pH barium sulfate scale control. 4,710,303, 12-1-87, Cl. 210-698.000.
- Emmons, David J.: *See—*
  - Berger, John G.; and Emmons, David J., 4,644,675, Cl. 40-531.000.
- Emmons, Lawrence D.: *See—*
  - Cooper-Hart, Michael A.; Emmons, Lawrence D.; Mackley, James S.; and Stokes, David H., 4,715,059, Cl. 379-53.000.
- Emo, Cathy V.: *See—*
  - McVay, Robert L.; Emo, Cathy V.; and Rush, Virginia P., 4,666,982, Cl. 525-109.000.

Emon, Mariko: *See—*
  Cho, Hidetsura; Aisaka, Kazuo; and Emon, Mariko, 4,640,922, Cl. 514-256.000.
Emond, George T.: *See—*
  Ostreicher, Eugene A.; Knight, Rodney A.; Fiore, Joseph V.; Emond, George T.; and Hou, Kenneth C., 4,673,504, Cl. 210-500.220.
  Ostreicher, Eugene A.; Knight, Rodney A.; Fiore, Joseph V.; Emond, George T.; and Hou, Kenneth C., 4,708,803, Cl. 210-650.000.
  Ostreicher, Eugene A.; Knight, Rodney A.; Fiore, Joseph V.; Emond, George T.; and Hou, Kenneth C., 4,711,793, Cl. 427-244.000.
Emori, Kazuo: *See—*
  Kumata, Masataka; Emori, Kazuo; Mitsumori, Masahito; Watanabe, Hideo; and Kobayashi, Kazuaki, 4,664,644, Cl. 464-180.000.
Emori, Masashi, to Sony Corporation. Cassette holder in recording and reproducing apparatus for magnetic tape cassette having underside-covering sliding shutter member. 4,673,145, 6-16-87, Cl. 242-198.000.
Emori, Yasuyoshi; and Nomura, Ikuo, to Jidosha Kiki Co., Ltd. Rack and pinion steering apparatus. 4,709,591, 12-1-87, Cl. 74-422.000.
Emory, Lyle: *See—*
  O'Brien, Edward J.; Emory, Lyle; and Vidusek, Daniel A., 4,664,314, Cl. 239-469.000.
Emory, Lyle J.; and Maney, Patrick, to Spraying Systems Co. Air atomizing spray nozzle. 4,645,127, 2-24-87, Cl. 239-299.000.
Emory University: *See—*
  Chu, Chung K.; and Schinazi, Raymond F., 4,681,933, Cl. 536-23.000.
Emoto, Hiromi: *See—*
  Kurome, Shosaku; Maeda, Yosinari; and Emoto, Hiromi, 4,664,530, Cl. 366-205.000.
Emoto, Hiroshi: *See—*
  Fukushima, Tsunekazu; Emoto, Hiroshi; Kagitani, Yoshio; Yokoyama, Kazumasa; Nishida, Masayuki; and Suyama, Tadakazu, 4,687,762, Cl. 514-34.000.
Emoto, Ikuo: *See—*
  Wakita, Kazuto; Tsuchiya, Kazuo; Nagayasu, Isao; and Emoto, Ikuo, 4,642,260, Cl. 428-215.000.
Emoto, Kazuhiro; Itoh, Akira; and Haino, Kozo, to Mitsubishi Paper Mills Ltd. Electrophotographic photoreceptor containing a trisazo compound. 4,687,721, 8-18-87, Cl. 430-58.000.
Emoto, Kazuhiro: *See—*
  Haino, Kozo; Emoto, Kazuhiro; and Itoh, Akira, 4,702,983, Cl. 430-75.000.
Emoto, Masami; Nishimiya, Masanobu; and Kiguchi, Hiroyuki, to Ricoh Company, Ltd. Method and device for detecting focal point. 4,636,625, 1-13-87, Cl. 250-201.000.
Emoto, Masami; Gotoh, Hiroshi; and Inuzuka, Hideo, to Ricoh Company, Ltd. Optical pickup with a two-detector arrangement. 4,683,559, 7-28-87, Cl. 369-44.000.
Emoto, Masami; and Inuzuka, Hideo, to Ricoh Company, Ltd. Focus detection method involving cutting more than half of light beam reflected from disc. 4,684,799, 8-4-87, Cl. 250-201.000.
Emoto, Masami; and Inuzuka, Hideo, to Ricoh Company, Ltd. Optical pick-up device for both focus and error tracking detection. 4,687,916, 8-18-87, Cl. 250-201.000.
Emoto, Shigeo: *See—*
  Yamauchi, Fumio; Tohara, Tsutomu; Nakano, Shigeo; and Emoto, Shigeo, 4,690,960, Cl. 523-442.000.
mpak Inc.: *See—*
  Mortensen, Roger, and Gregerson, Barry, 4,709,834, Cl. 220-326.000.
  Mortensen, Roger L., 4,634,004, Cl. 206-387.000.
  Mortensen, Roger L., 4,669,612, Cl. 206-454.000.
  Mortensen, Roger L., 4,687,097, Cl. 206-334.000.
mpco (Canada) Ltd.: *See—*
  Wunsche, Edgar R.; Wunsche, Alan A.; and Kosanovich, Milan, 4,653,730, Cl. 266-47.000.
mpi, Inc.: *See—*
  Maurer, Donald D., 4,653,479, Cl. 128-25.00B.
  Ober, Stephen H., 4,669,477, Cl. 128-421.000.
mpie, Mark W., to Stauffer Chemical Company. Resolution of racemates of amino acids. 4,636,470, 1-13-87, Cl. 435-280.000.
pire Automotive, Inc.: *See—*
  Hough, Louis E., 4,666,206, Cl. 296-216.000.
pire of Carolina, Inc.: *See—*
  Kinberg, Benjamin, 4,700,965, Cl. 280-289.00D.
pire Returns Corporation: *See—*
  Weitzman, David H.; and Young, Jeffrey M., 4,667,291, Cl. 364-401.000.
pl, Bernhard: *See—*
  Rauscher, Elli; Schaich, Eugen; Neumann, Ulrich; Wahlefeld, August; Gruber, Wolfgang; and Empl, Bernhard, 4,709,020, Cl. 536-17.800.
pson, Geuane: *See—*
  Hoover, Gary W.; Empson, Geuane; and Ashley, Bruce W., 4,712,326, Cl. 43-42.310.
R Elektronische Messund Regelgerate Gesellschaft m.b.H.: *See—*
  Rieder, Heinz; and Schwaiger, Max, 4,695,720, Cl. 250-231.0SE.
, Zsuzsanna: *See—*
  Nagy, Imre Z.; Emri, Zsuzsanna; Jancso, Sandor; Csernus, Istvan; and Balint, Janos, 4,661,618, Cl. 560-62.000.
ch, Albert. Metric measuring device for postage stamps. 4,660,295, 8-87, Cl. 33-541.000.
Emrich, Helmut, to M.A.N.-Roland Druckmaschinen Aktiengesellschaft. Arrangement for conveyance of stream-fed sheets. 4,647,033, 3-3-87, Cl. 271-276.000.
Emrich, Helmut; and Wenzel, Jurgen, to M.A.N.-Roland Druckmaschinen Aktiengesellschaft. Method and apparatus for aligning and feeding sheets for printing presses. 4,648,589, 3-10-87, Cl. 271-236.000.
Emrich, Helmut, to M.A.N.-Roland Druckmaschinen Aktiengesellschaft. Method of and apparatus for accurate-register sheet transport in a printing machine. 4,651,984, 3-24-87, Cl. 271-237.000.
Emrich, Helmut; Mathes, Josef; Ochs, Heinrich; and Despot, Janko, to M.A.N.- Roland Druckmaschinen Aktiengesellschaft. Changing drive for the distributing rollers of at least one inking unit of a printing unit of an offset rotary press. 4,711,173, 12-8-87, Cl. 101-349.000.
Emrich, Helmut: *See—*
  Seib, Berthold; and Emrich, Helmut, 4,669,380, Cl. 101-216.000.
EMS Electro Medical Systems, S.A.: *See—*
  Mabille, Pierre, 4,676,749, Cl. 433-88.000.
EMS-Inventa AG: *See—*
  Kerschbaumer, Franz; and Schmidt, Klaus, 4,657,952, Cl. 523-351.000.
  Liedloff, Hanns-Jorg, 4,689,393, Cl. 528-283.000.
  Rehmann, Robert, 4,637,311, Cl. 102-209.000.
  Schmid, Eduard; and Hoppe, Manfred, 4,647,630, Cl. 525-431.000.
  Wittwer, Alfred, 4,686,903, Cl. 102-202.500.
  Wittwer, Alfred, 4,715,280, Cl. 102-202.800.
Emslander, Jeffrey O.; and Larson, Curtis L., to Minnesota Mining and Manufacturing Company. Divisible tape tab for opening a container. 4,664,263, 5-12-87, Cl. 206-630.000.
Emslander, Jeffrey O.; and Larson, Curtis L., to Minnesota Mining and Manufacturing Company. Two part tape tab for opening a container. 4,708,249, 11-24-87, Cl. 206-630.000.
Emter, James. Guide pad resurfacing apparatus. 4,685,845, 8-11-87, Cl. 409-145.000.
Emuge-Werk Richard Glimpel Fabrik fuer Praezisionswerkzeuge (vormals Moschkau & Glimpel): *See—*
  Schmidt, Wolfgang, 4,694,944, Cl. 192-56.00R.
Emuge-Werk Richard Glimpel Fabrik fur Prazisionswekzeuge Vormals: *See—*
  Hofmann, Hans; and Ziegler, Heinz, 4,666,167, Cl. 279-2.00R.
Emura, Hideo: *See—*
  Onitsuka, Katsuhiko; and Emura, Hideo, 4,670,805, Cl. 360-103.000.
Emura, Katsumi: *See—*
  Minemura, Kouichi; Shikada, Minoru; and Emura, Katsumi, 4,706,300, Cl. 455-619.000.
Emura, Masaharu; Uetsuki, Haruo; Aoki, Atsuhito; and Kobayashi, Takehiro, to Ryobi Limited. Drag control mechanism for use in fishing reels. 4,708,303, 11-24-87, Cl. 242-218.000.
Emura, Noriaki: *See—*
  Okuzono, Shuichi; Tanaka, Tetsuo; Oda, Yasuhiro; Shintani, Takashi; and Emura, Noriaki, 4,713,083, Cl. 8-557.000.
EMX International Limited: *See—*
  Bartlett, David, 4,714,925, Cl. 340-825.550.
Enaka, Nobuhiro, to Shimizu Construction Co., Ltd. Illumination apparatus. 4,635,169, 1-6-87, Cl. 362-147.000.
Enamel Products & Plating Co.: *See—*
  Anderson, William J.; Anderson, Wayne R.; and Robinson, Larry D., 4,641,571, Cl. 98-72.000.
Enami, Katsuya; Tsuyuguchi, Hiroshi; and Sakaguchi, Takahiro, to Teac Corporation. Stepping motor drive method and system capable of stopping the rotor in a required angular position. 4,677,359, 6-30-87, Cl. 318-69.00G.
Enami, Katsuya; Tsuyuguchi, Hiroshi; and Sakaguchi, Takahiro, to Teac Corporation. Stepping motor drive system and method capable of stopping the rotor in a required angular position. 4,697,129, 9-29-87, Cl. 318-696.000.
Enami, Katsuya; Kawamura, Sinobu; Nagase, Fumio; and Aikawa, Shinichi, to Teac Corporation. Head assemblies mounted for optimum contact with a flexible magnetic disk. 4,709,285, 11-24-87, Cl. 360-104.000.
Enami, Kazumasa: *See—*
  Murakami, Keinosuke; Enami, Kazumasa; and Yagi, Nobuyuki, 4,673,980, Cl. 358-149.000.
Enami, Yasushi: *See—*
  Muramatsu, Tateo; Enami, Yasushi; Saito, Hideaki; and Aramaki, Kuninori, 4,662,783, Cl. 405-115.000.
Enari, Hiroyuki; Konai, Yutaka; Akiba, Uichi; and Ito, Masayo, to Kureha Kagaku Kogyo Kabushiki Kaisha. Derivatives of phenylacetic ester, a process for producing the same and insecticidal compositions containing the same as an active ingredient. 4,668,815, 5-26-87, Cl. 560-55.000.
Enari, Masahiko: *See—*
  Kanno, Hideo; Yamashita, Shinichi; Enari, Masahiko; Kuno, Mitsutoshi; and Mizutome, Atsushi, 4,714,921, Cl. 340-784.000.
Enatech Corporation: *See—*
  Schreter, Robert E., 4,688,496, Cl. 110-264.000.
Enatsu, Akira: *See—*
  Hara, Tomihiro; Adaniya, Takeshi; Yamashita, Masaaki; and Enatsu, Akira, 4,659,394, Cl. 148-6.200.
Enberg, Helge, to AB Bahco Ventilation. Air supply device. 4,637,302, 1-20-87, Cl. 98-115.300.
Encon Associates Inc.: *See—*
  Lockett, William, Jr., 4,714,542, Cl. 208-347.000.
Encon Systems, Ltd.: *See—*
  Schmidt, Donald R., 4,672,932, Cl. 123-196.00A.
Encontre, Yves. Table leg mount. 4,662,591, 5-5-87, Cl. 248-188.000.

Encore Drilling Limited: *See—*
Braithwaite, Richard W.; Smith, Graham M.; Bellamy, Norman W.; and Gergely, Stephen, 4,665,995, Cl. 175-45.000.
Enda, Masami; Fujita, Reiko; Morisue, Tetsuo; and Hasegawa, Yutaka, to Kabushiki Kaisha Toshiba. Apparatus for decontamination of radiation contaminated metallic waste. 4,663,085, 5-5-87, Cl. 252-626.000.
Enda, Masami: *See—*
Fujita, Reiko; and Enda, Masami, 4,701,246, Cl. 204-130.000.
Enda, Ryuichi, to Yamaha. Motorcycle frame. 4,696,363, 9-29-87, Cl. 180-219.000.
Enda, Toyoaki, to Iwatsu Electric Co., Ltd. Pen control circuit. 4,660,055, 4-21-87, Cl. 346-139.00R.
Ende, Don S., to Miltope Corporation. Environmental conditioning and safety system for disk-type mass memories. 4,642,715, 2-10-87, Cl. 360-97.000.
Enderby, Ralph: *See—*
Kurtzman, Gary; Heck, Joseph P.; Hansen, Kenneth A.; Enderby, Ralph; and Vidugiris, Bronis, 4,714,899, Cl. 331-1.00A.
Enderby, Ralph T.; Ferrer, Enrique; and Shepherd, Wayne P., to Motorola Inc. Varactor tuning circuit having plural selectable bias voltages. 4,713,631, 12-15-87, Cl. 331-36.00C.
Enders, George E., to NRM Corporation. Tire building machine. 4,705,589, 11-10-87, Cl. 156-401.000.
Enders, Gerhard: *See—*
Beinvogl, Willy; Enders, Gerhard; and Mohr, Ernst-Guenter, 4,658,496, Cl. 29-571.000.
Enders, Max L., deceased; and by Thiel, Reinhard A., administrator, to Sellers, William Douglas; and Brace, George A. Demountable wheel. 4,639,044, 1-27-87, Cl. 301-9.0DN.
Endless Energy, Inc.: *See—*
Bowman-Jones, Gordon, 4,639,612, Cl. 307-132.00E.
Endo, Akira; Takezaki, Jiro; Tsujii, Fumio; and Shibata, Takanori, to Hitachi, Ltd. Navigation apparatus for automotive. 4,638,438, 1-20-87, Cl. 364-449.000.
Endo, Akira; and Yamashita, Haruyuki, to Asahi Denka Kogyo K.K. Metal salt of organic phosphate and an antihyperlipemic agent containing the same. 4,701,448, 10-20-87, Cl. 514-121.000.
Endo, Akira: *See—*
Sasayama, Takao; Oho, Shigeru; Kanke, Atsushi; Shibata, Takanori; and Endo, Akira, 4,708,480, Cl. 356-350.000.
Tsujii, Fumio; Matsuoka, Yoji; Endo, Akira; Takezaki, Jiro; and Shirai, Hiroshi, 4,635,202, Cl. 364-449.000.
Tsujii, Fumio; Matsuoka, Yoji; Shibata, Takanori; Endo, Akira; and Shirai, Hiroshi, 4,679,147, Cl. 364-449.000.
Uzawa, Sumiyo; Fujiwara, Tetsuo; Suzuki, Isao; and Endo, Akira, 4,652,157, Cl. 400-124.000.
Endo, Ariyoshi, to Ichikoh Industries Limited. Incandescent lamp bulb assembly. 4,663,558, 5-5-87, Cl. 313-318.000.
Endo, Atsushi: *See—*
Takada, Mitsuyuki; Endo, Atsushi; and Takasago, Hayato, 4,645,734, Cl. 430-315.000.
Yokota, Yuzo; and Endo, Atsushi, 4,687,388, Cl. 408-230.000.
Endo, Azuchi; and Akimoto, Taizo, to Fuji Photo Film Co., Ltd. Automatic calibration circuit for monitoring device. 4,707,739, 11-17-87, Cl. 358-139.000.
Endo, Fumihiro; Kobayashi, Shigeo; and Yoshioka, Yoshio, to Hitachi, Ltd. Gas-insulated circuit breaker. 4,667,072, 5-19-87, Cl. 200-148.00A.
Endo, Fumihiro: *See—*
Ishikawa, Toshio; Endo, Fumihiro; Yamagiwa, Tokio; and Kamata, Yuzuru, 4,667,061, Cl. 174-14.00R.
Yamagiwa, Tokio; Ishikawa, Toshio; and Endo, Fumihiro, 4,672,150, Cl. 174-14.00R.
Endo, Hideki; Hashimoto, Kazuto; Tanaka, Kenji; Matsumoto, Takeshi; Igi, Keishiro; Okamura, Takayuki; Taniguchi, Shunro; Ishii, Masao; Murata, Yoshifumi; and Yokota, Shinichi, to Idemitsu Petrochemical Co. Ltd.; and Kuraray Company Limited. Polycarbonate resin composition. 4,657,973, 4-14-87, Cl. 525-67.000.
Endo, Hidetoshi: *See—*
Kuzuya, Fumio; and Endo, Hidetoshi, 4,713,376, Cl. 514-78.000.
Endo, Hiroshi, to Nissan Motor Co., Ltd. Optical radar system with an array of photoelectric sensors. 4,634,272, 1-6-87, Cl. 356-5.000.
Endo, Hiroshi; Katoh, Masao; and Hino, Kuniaki, to Kureha Kagaku Kogyo Kabushiki Kaisha. Porous and spherical carbonaceous product. 4,681,764, 7-21-87, Cl. 424-125.000.
Endo, Hiroshi; Yagi, Toshio; Tanaka, Masahiro; and Suzuki, Takanori, to Mitsubishi Yuka Badische Co., Ltd. Process for producing foamed particles of propylene copolymer resin. 4,689,351, 8-25-87, Cl. 521-60.000.
Endo, Hiroshi; Arai, Masakazu; Nishikawa, Shigeo; Saito, Masanori; Tanaka, Masahiro; Nagasaki, Kunikazu; and Mathuno, Shigeki, to Mitsubishi Yuka Badische Co., Ltd. Methods of producing molded products from foamed polypropylene particles. 4,698,191, 10-6-87, Cl. 264-50.000.
Endo, Hiroyuki: *See—*
Hoshiai, Atsushi; and Endo, Hiroyuki, 4,715,257, Cl. 84-1.010.
Takagi, Yoshiaki; Katsui, Yoshihiro; Endo, Hiroyuki; and Ikenoue, Yutaka, 4,702,771, Cl. 75-241.000.
Endo, Hisashi, to Yokogawa Medical Systems, Limited. Method of and apparatus for photographing medical image. 4,716,426, 12-29-87, Cl. 354-76.000.
Endo, Isao: *See—*
Kumata, Katsuhiko; Endo, Isao; Numa, Syozi; Hirose, Ichiro; Sagawa, Takayoshi; and Matono, Katsuyoshi, 4,661,034, Cl. 414-416.000.
Kumata, Katsuhiko; Endo, Isao; Numa, Syozi; Hirose, Ichiro; Sagawa, Takayoshi; and Matono, Katsuyoshi, 4,696,617, Cl. 414-422.000.
Endo, Itaru: *See—*
Inoue, Yasuo; Yonekubo, Ken; Yamagishi, Masaaki; and Endo, Itaru, 4,685,776, Cl. 350-502.000.
Endo, Junji; Tonomura, Akira; Ozasa, Susumu; Matsuda, Tsuyoshi; Kimura, Chikara; and Osakabe, Nobuyuki, to Hitachi, Ltd. Field emission type electron microscope using a multi-stage acceleration tube. 4,642,461, 2-10-87, Cl. 250-311.000.
Endo, Junji: *See—*
Arai, Tohru; and Endo, Junji, 4,686,117, Cl. 427-249.000.
Endo, Juro; Murakami, Shiro; Fujii, Shigeo; Nakao, Masayuki; and Iimura, Tsutomu, to Hitachi Metals, Ltd. Process for manufacturing magnetic recording medium. 4,663,193, 5-5-87, Cl. 427-129.000.
Endo, Juro; Murakami, Shiro; Takada, Yukiharu; and Koike, Yoshiharu, to Hitachi Metals, Ltd. Magnetic recording device having a stabilized zirconia slider and a cobalt based recording medium. 4,709,284, 11-24-87, Cl. 360-103.000.
Endo, Juro: *See—*
Kuni, Asahiro; Yamaguchi, Kazuo; Akiyama, Nobuyuki; and Endo, Juro, 4,647,196, Cl. 356-237.000.
Murakami, Shiro; Fujii, Shigeo; Nakao, Masayuki; Igarashi, Yoshio; and Endo, Juro, 4,645,690, Cl. 427-128.000.
Endo, Kazuhito; Ishida, Masayuki; and Ishida, Yoshinobu, to Mitsubishi Denki Kabushiki Kaisha. Magnetic recorder/reproducer. 4,675,754, 6-23-87, Cl. 360-32.000.
Endo, Kazuma: *See—*
Endo, Shigeharu; Endo, Kazuma; Endo, Kazuya; and Itoh, Hiroko, 4,651,351, Cl. 2-159.000.
Endo, Shigeharu; and Endo, Kazuma, 4,694,993, Cl. 241-46.110.
Endo, Kazumasa: *See—*
Kato, Kinya, and Endo, Kazumasa, 4,660,966, Cl. 355-43.000.
Endo, Kazunaka: *See—*
Kanada, Eiji; Suzuki, Shigeyoshi; Endo, Kazunaka; and Yamamoto, Kyonosuke, 4,636,066, Cl. 355-77.000.
Endo, Kazuya: *See—*
Endo, Shigeharu; Endo, Kazuma; Endo, Kazuya; and Itoh, Hiroko, 4,651,351, Cl. 2-159.000.
Endo, Kazuyuki; Taniguchi, Motoaki; Takahashi, Masanobu; Yamada, Shigeki, and Kato, Kenshiro, to Bridgestone Corporation. Heavy duty pneumatic radial tires. 4,700,764, 10-20-87, Cl. 152-526.000.
Endo, Keiji: *See—*
Goh, Atsushi; Nakamura, Mami; Endo, Keiji; and Hikido, Mitsuru, 4,654,074, Cl. 71-92.000.
Konno, Kazuhiko; Araki, Koichi; Ikeda, Kaoru; Endo, Keiji; and Hikido, Mitsuru, 4,659,365, Cl. 71-92.000.
Sato, Atsushi; Endo, Keiji; Kawakami, Shigenobu; and Dohi, Hideyuki, 4,639,833, Cl. 361-315.000.
Sato, Atsushi; Endo, Keiji; Kawakami, Shigenobu; Matsuzaka, Eiichi; and Narui, Satoshi, 4,642,730, Cl. 361-315.000.
Sato, Atsushi; Endo, Keiji; Dohi, Hideyuki; and Kawakami, Shigenobu, 4,670,348, Cl. 428-461.000.
Sato, Atsushi; Endo, Keiji; Kawakami, Shigenobu; Yanagishita, Hitoshi; and Hayashi, Shozo, 4,681,980, Cl. 585-6.300.
Sato, Atsushi; Kawakami, Shigenobu; Endo, Keiji; and Dohi, Hideyuki, 4,716,084, Cl. 428-458.000.
Takahashi, Naoya; Endo, Keiji; Matsuzaka, Eiichi; Narui, Satoshi; and Sato, Atsushi, 4,686,548, Cl. 503-213.000.
Endo, Kenzo: *See—*
Fujimura, Koh; and Endo, Kenzo, 4,688,899, Cl. 350-346.000.
Endo, Kiyonobu, to Canon Kabushiki Kaisha. Information recording-reproducing method and apparatus. 4,642,703, 2-10-87, Cl. 358-342.000.
Endo, Kiyonobu, to Canon Kabushiki Kaisha. Optical head. 4,654,839, 3-31-87, Cl. 369-46.000.
Endo, Mamoru: *See—*
Mitani, Tadayuki; Endo, Mamoru; and Hiramoto, Takashi, 4,698,441, Cl. 562-531.000.
Endo, Mariko: *See—*
Ishii, Toru; Isobe, Masashi; and Endo, Mariko, 4,671,825, Cl. 148-6.15R.
Endo, Masahiro: *See—*
Tozawa, Takashi; Endo, Masahiro; and Eiraku, Yukio, 4,665,059, Cl. 514-53.000.
Endo, Masami: *See—*
Hirabayashi, Hideo; Endo, Masami; and Kokubo, Kakuro, 4,702,414, Cl. 239-4.000.
Kawakami, Hideo; Tazawa, Shinichi; Endo, Masami; and Kinoshita, Masaharu, 4,674,236, Cl. 51-325.000.
Endo, Masayuki: *See—*
Sasaki, Toshihiko; Sunayama, Yooji; Yoshida, Isao; and Endo, Masayuki, 4,696,800, Cl. 422-186.180.
Endo, Michio: *See—*
Harase, Jiro; Ohta, Kuniteru; Takeshita, Tetsurou; and Endo, Michio, 4,709,742, Cl. 164-76.100.
Endo, Michiyuki: *See—*
Honda, Tatsutoku; Endo, Michiyuki; Wakamatsu, Saburo; and Kudo, Yoshio, 4,682,855, Cl. 350-276.00R.
Endo, Mitsuharu: *See—*
Okuno, Shigeru; Torisawa, Yoshihiro; Endo, Mitsuharu; Nakayama, Tetsuroh; Shimosato, Masashi; and Fukushima, Takafumi, 4,696,589, Cl. 400-119.000.
Shimosato, Masashi; Torisawa, Yoshihiro; Nishikawa, Hisashi; and Endo, Mitsuharu, 4,646,111, Cl. 346-140.00R.

ndo, Mitsuhiro; Ando, Hiromi; and Ono, Yukou, to Tokico Ltd. Pneumatic booster. 4,671,167, 6-9-87, Cl. 91-369.00A.

ndo, Mitsuhiro: *See—*

Ando, Hiromi; Endo, Mitsuhiro; and Ono, Yukou, 4,690,034, Cl. 91-369.00A.

ndo, Morinobu; Takamizawa, Minoru; Hongu, Tatsuhiko; and Kobayashi, Taishi, to Shin-Etsu Chemical Co., Ltd. Method for the preparation of a fine powder of silicon carbide. 4,676,966, 6-30-87, Cl. 423-345.000.

ndo, Nobuhiro: *See—*

Kurogi, Yukinori; Endo, Nobuhiro; and Tanno, Kohetsu, 4,637,127, Cl. 29-576.00E.

ndo, Sadayoshi: *See—*

Teraguchi, Yuji; and Endo, Sadayoshi, 4,672,484, Cl. 360-96.300.

ndo, Sasuke. Toothbrush. 4,685,819, 8-11-87, Cl. 401-176.000.

ndo, Sasuke. Brush for applying material in liquid or emulsion form. 4,692,047, 9-8-87, Cl. 401-141.000.

ndo, Seiji; and Kikuchi, Eiji, to Sumitomo Electric Industries, Ltd. Terminal connector assembly for multiconductor cable. 4,705,482, 11-10-87, Cl. 439-460.000.

ndo, Shigeharu; Endo, Kazuma; Endo, Kazuya; and Itoh, Hiroko. Escapement glove. 4,651,351, 3-24-87, Cl. 2-159.000.

ndo, Shigeharu; and Endo, Kazuma. Crushing and washing processing appartus for ballast and sand. 4,694,993, 9-22-87, Cl. 241-46.110.

ndo, Shigeki: *See—*

Yoshida, Masaaki; Endo, Shigeki; Kisanuki, Shigeru; and Kakuzen, Hideo, 4,713,107, Cl. 65-157.000.

ndo, Shinichi; Kimata, Kunio; Shinoda, Hideho; and Ogita, Kunio, to Matsushita Electric Industrial Co., Ltd. Bed warmer with a body temperature sensor for stopping a higher preset temperature. 4,656,334, 4-7-87, Cl. 219-212.000.

do, Shinichi; Shinoda, Hideho; and Kimata, Kunio, to Matsushita Electric Industrial Co., Ltd. Warming apparatus for use during sleep. 4,658,119, 4-14-87, Cl. 219-492.000.

do, Shokichi: *See—*

Miyazawa, Hideo; Endo, Shokichi; and Nishimoto, Hideo, 4,648,346, Cl. 118-500.000.

do, Shyusuke; Aoyama, Naofumi; Yabuuchi, Toshihiko; Sakuma, Toshiyuki; and Kinugawa, Kiyoshige, to Hitachi, Ltd. Liquid crystal isplay device with driving method to eliminate blur due to frequency dependence. 4,701,025, 10-20-87, Cl. 350-333.000.

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do, Syunkichi: *See—*

Kurosawa, Yukio; Iwashita, Kiyoji; Matumoto, Morihisa; Kurasawa, Takanao; and Endo, Syunkichi, 4,704,506, Cl. 200-144.00B.

do, Syuzo; and Tsuchida, Haruo, to Yoshino Kogyosho Co., Ltd. A Dispensing container for cream-like fluids. 4,657,161, 4-14-87, Cl. 22-256.000.

do, Tadao: *See—*

Shimizu, Kiyoshi; Endo, Tadao; and Harada, Susumu, 4,670,517, Cl. 525-328.200.

do, Takashi: *See—*

Watanabe, Yoshitaka; Mamiya, Toshiharu; Ishikawa, Tadashi; and Endo, Takashi, 4,698,650, Cl. 346-134.000.

do, Takayoshi; Sugiyama, Toshimasa; Murofushi, Satoru; and Yagi, akai, to Yazaki Corporation. Wire-harness for automobiles. 648,673, 3-10-87, Cl. 339-97.00R.

do, Takeyuki: *See—*

Kitazume, Yoshiaki; Yasue, Toshikazu; Ohira, Eiji; Endo, Takeyuki; and Asou, Satoshi, 4,672,668, Cl. 381-43.000.

o, Tetugi; and Nishijima, Kazuyoshi, to Nihon Plast Co., Ltd. teering wheel assembly. 4,655,101, 4-7-87, Cl. 74-552.000.

o, Toshihiko: *See—*

Igarashi, Takeshi; Endo, Toshihiko; and Koshi, Isei, 4,673,636, Cl. 435-34.000.

o, Toshiya: *See—*

Okawa, Susumu; Jufuku, Yasunobu; Okuwaki, Shigeru; Kondou, Takayoshi; Endo, Toshiya; and Nakata, Shigenori, 4,655,734, Cl. 474-242.000.

o, Yasuhiko: *See—*

Yoshida, Takashi; Yoshioka, Takashi; and Endo, Yasuhiko, 4,672,589, Cl. 367-104.000.

, Yasuhiro: *See—*

Kyoden, Hiroshi; Endo, Yasuhiro; Fujiwara, Teiichi; Mimura, Toshisada; Nishikawa, Kihachiro; and Nishizawa, Shoichi, 4,636,969, Cl. 364-560.000.

, Yasuhisa; Mizuhara, Shuhei; Murakami, Satoshi; Beppu, Osamu; d Toshioka, Saiji, to Mitsui Engineering and Shipbuilding Co. Ltd. vice for preventing abnormal flow of gas fuel from gas fuel injec- of diesel engine. 4,704,997, 11-10-87, Cl. 123-198.0DB.

, Yoichi; and Masaki, Kazumi, to Hayashibara, Ken. Electromag- ic vibration generator. 4,697,581, 10-6-87, Cl. 128-41.000.

, Yorimasa: *See—*

ukushima, Toshiki; Endo, Yorimasa; and Nishiyama, Osamu, 4,652,419, Cl. 376-254.000.

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Yoshimasa, to Futaba Kogyo Yugen Kaisha. Tree transplanting ratus having non-parallel link mechanism for digging blade. 6,013, 6-30-87, Cl. 37-2.00R.

Endo, Yukio; Harada, Nozomu; and Yoshida, Okio, to Kabushiki Kaisha Toshiba. Solid state image sensor with high resolution. 4,652,928, 3-24-87, Cl. 358-213.000.

Endo, Yukio; Harada, Nozomu; and Yoshida, Okio, to Kabushiki Kaisha Toshiba. Image-sensing system with noise eliminator. 4,698,686, 10-6-87, Cl. 358-213.180.

Endo, Yukio: *See—*

Rollhaus, Philip; and Endo, Yukio, 4,638,306, Cl. 340-365.00R.

Rollhaus, Philip E.; and Endo, Yukio, 4,694,280, Cl. 340-365.00R.

Endo, Yutaka: *See—*

Tanimoto, Akikazu; Ishizaka, Shoji; Endo, Yutaka; Suzuki, Hiroyuki; and Yanagihara, Masamitsu, 4,687,322, Cl. 355-55.000.

Endoh, Hiroyuki: *See—*

Ikenoue, Yutaka; Endoh, Hiroyuki; Ishii, Kei; and Suzuki, Keitaro, 4,648,903, Cl. 75-230.000.

Endoh, Kenji; Narui, Fumio; Sugiyama, Kazuhiro; Hara, Kazuya; and Shimazaki, Tatsuo, to Casio Computer Co., Ltd. Method of manufacturing a small electronic device. 4,668,314, 5-26-87, Cl. 156-64.000.

Endoh, Koichi; Kaneko, Toshiyuki; Yaoi, Hideo; Aso, Seiji; Obana, Yasuo; and Takahama, Hideyuki, to Nippon Steel Corporation. Treating agent for desulfurizing molten steels and method for treating molten steels. 4,661,151, 4-28-87, Cl. 75-53.000.

Endoh, Seiji; Kimura, Kunio; Ohta, Toshihiko; and Kato, Yasuo, to Toyo Boseki Kabushiki Kaisha. Polymeric whisker and production of the same. 4,673,724, 6-16-87, Cl. 528-206.000.

Endoh, Toshiaki; and Yamazaki, Yasuhiro, to Kokusai Denshin Denwa Kabushiki Kaisha. Graded facsimile image signal coding system. 4,652,935, 3-24-87, Cl. 358-260.000.

Endoh, Yasuyuki: *See—*

Watanabe, Yuji; and Endoh, Yasuyuki, 4,649,432, Cl. 358-241.000.

Endom, Edward F. Method and apparatus for conditioning the floor of a poultry rearing area. 4,708,294, 11-24-87, Cl. 241-27.000.

Endorfin, Inc.: *See—*

Ehrenpreis, Seymour; Comaty, Joseph E.; and Balagot, Reuben C., 4,687,781, Cl. 514-557.000.

Endotherapeutics: *See—*

Moll, Frederic H.; Roth, Alex T.; Costa, Peter F.; and Holmes, William A., 4,654,030, Cl. 604-165.000.

Endotronics, Inc.: *See—*

Bach, Bert R., 4,647,539, Cl. 435-284.000.

Harm, William H.; and Peluso, John J., 4,650,766, Cl. 435-284.000.

Endou, Hideyasu: *See—*

Itagaki, Masanori; Takahashi, Junichi; and Endou, Hideyasu, 4,695,678, Cl. 174-52.0FP.

Endres, Dan D.: *See—*

Lamers, Gregory C.; Endres, Dan D.; Win, Maung H.; and Kuenn, Cary K., 4,659,609, Cl. 428-194.000.

Endres, Douglas W.: *See—*

McDaniel, Kenneth D., Jr.; Endres, Douglas W.; and Griebel, Francis J., 4,653,654, Cl. 212-182.000.

Endres, Lothar: *See—*

Becker, Manfred; Matejec, Reinhart; and Endres, Lothar, 4,636,461, Cl. 430-567.000.

Endres, Mark C., to Instrument Sales and Service, Inc. Temperature responsive engine control apparatus. 4,656,973, 4-14-87, Cl. 123-41.150.

Endress u. Hauser GmbH u. Co.: *See—*

Braun, Hans; and Schneider, Georg, 4,708,021, Cl. 73-861.060.

Kastel, Walter; and Geiger, Wolfgang, 4,640,135, Cl. 73-716.000.

Lau, Jurgen, 4,675,854, Cl. 367-908.000.

Michalski, Bernhard; Lau, Jurgen; and Berger, Wolfram, 4,700,569, Cl. 73-290.00V.

Endresz, Valeria: *See—*

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Endrodi, Bela: *See—*

Szenes, Zsuzsa; and Endrodi, Bela, 4,675,842, Cl. 364-900.000.

Endrud, Douglas G.: *See—*

Davidson, Dale D.; and Endrud, Douglas G., 4,713,757, Cl. 364-200.000.

Endruscheit, Peter: *See—*

Bergmann, Franz-Josef; Hockenberger, Lothar; Endruscheit, Peter; and Paehler, Ralf, 4,689,395, Cl. 528-374.000.

Endter, Cynthia K.: *See—*

Coran, Aubert Y.; and Endter, Cynthia K., 4,661,554, Cl. 524-504.000.

Enein, Mohamed, to Hazeltine Corporation. Microwave landing system with ±90 degree azimuth clearance guidance and 360 degree data coverage. 4,677,442, 6-30-87, Cl. 342-410.000.

Enel-Ente Nazionale per l'Energia Elettrica: *See—*

Graziadio, Mario; and Ligasacchi, Sergio, 4,708,293, Cl. 239-427.000.

Enenkel, Hans J.: *See—*

Jonas, Rochus; Kloft, Michael; Wurziger, Hanns; Harting, Juergen; Enenkel, Hans J.; Minck, Klaus-Otto; and Schliep, Hans-Jochen, 4,654,344, Cl. 514-248.000.

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Bakay, Arpad; Bergmann, Gyorgy; Hivessy, Geza; and Szentgyorgyi, Istvan, 4,688,397, Cl. 62-335.000.

Balazs, Janos; Bocskor, Adam; Cseh, Otto; and Iring, Rezso, 4,641,607, Cl. 122-360.000.

Szucs, Laszlo; Szabo, Jozsef; and Tasnadi, Csaba, 4,648,443, Cl. 165-181.000.

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Energikontroll A.S.: *See—*
Wesseltoft, Per, 4,677,279, Cl. 219-345.000.
Energy Absorption Systems, Inc.: *See—*
Denman, Owen S.; and Ebersole, George, 4,666,130, Cl. 256-13.100.
Friton, Warren D., 4,635,981, Cl. 293-1.000.
Gertz, David C., 4,674,911, Cl. 404-6.000.
Krage, William G.; Stephens, Barry D.; and Denman, Owen S., 4,711,481, Cl. 293-133.000.
Zucker, Stanley, 4,688,766, Cl. 256-13.100.
Energy Adaptive Grinding, Inc.: *See—*
Smith, Roderick L., 4,663,892, Cl. 51-289.00R.
Smith, Roderick L., 4,712,332, Cl. 51-103.0WH.
Energy Conservation Partnership, Ltd.: *See—*
Johnson, Arthur F., 4,676,299, Cl. 165-1.000.
Johnson, Arthur F., 4,703,794, Cl. 165-7.000.
Energy Conversion Devices, Inc.: *See—*
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Cannella, Vincent D.; Yaniv, Zvi; and Johnson, Robert R., 4,672,454, Cl. 358-213.110.
Cannella, Vincent D.; Yaniv, Zvi; and Johnson, Robert R., 4,691,243, Cl. 358-294.000.
Cannella, Vincent D.; Yaniv, Zvi; and Johnson, Robert R., 4,691,244, Cl. 358-294.000.
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den Boer, Willem; Payson, J. Scott; and Yaniv, Zvi, 4,667,189, Cl. 340-713.000.
den Boer, Willem; Payson, J. Scott; and Yaniv, Zvi, 4,698,627, Cl. 340-718.000.
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Hanak, Joseph J.; Young, James; Kuypers, Bert; and Blieden, Richard, 4,636,579, Cl. 136-245.000.
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Hanak, Joseph J., 4,713,492, Cl. 136-245.000.
Hartman, Robert A.; and Koch, Paul E., 4,663,829, Cl. 29-572.000.
Hennessey, Michael, 4,667,309, Cl. 365-113.000.
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Johncock, Annette; and Hudgens, Stephen J., 4,713,309, Cl. 430-65.000.
Johncock, Annette G.; and Hudgens, Stephen J., 4,715,927, Cl. 156-606.000.
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Johnson, Robert R.; and Chapelle, Walter E., 4,679,085, Cl. 358-160.000.
Keem, John E.; Bergeron, Richard C.; Custer, Russell C.; and McCallum, R. William, 4,637,967, Cl. 429-101.000.
Keem, John E.; and Marshall, Gerald F., 4,698,833, Cl. 378-84.000.
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Young, Rosa; and Ovshinsky, Stanford R., 4,710,899, Cl 365-113.000.
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Energy Counselors, Inc.: *See—*
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Tarpley, William B., Jr.; and Ruscitto, Gerald L., 4,652,383, Cl 252-8.000.
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Stokes, John H.; Clark, John I.; Morris, James D.; and Ward Steven M., 4,701,858, Cl. 364-483.000.
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- Engel, James R.; Stepien, Michael A.; and Glidewell, Keith J., to Motorola, Inc. Inbound acknowledgement stack. 4,646,082, 2-24-87, Cl. 340-825.540.
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- Engel, Jurgen; Jakovlev, Vladimir; Nickel, Bernd; Thiemer, Klaus; and Scheffler, Gerhard, to Degussa Aktiengesellschaft. Analgesic pyridine-2-ethers or pyridine-2-thioethers having a nitrogen-containing cycloaliphatic ring. 4,643,995, 2-17-87, Cl. 514-210.000.
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  - Baril, Gerard J., 4,674,474, Cl. 125-21.000.
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  - Borland, William, 4,663,189, Cl. 427-79.000.
  - Cleland, Andrew J., 4,640,716, Cl. 106-161.000.
  - Needham, Eric, 4,685,019, Cl. 361-2.000.
  - Pitts, Frank; Hemstock, Glen A.; and Moselle, Inez L., 4,668,124, Cl. 405-129.000.
  - Taylor, Arthur D.; and Upson, Thomas M., 4,640,752, Cl. 204-141.500.
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- Engelhardt, Friedrich: *See—*
  - Dursch, Walter; Herwig, Walter; and Engelhardt, Friedrich, 4,696,987, Cl. 526-216.000.
  - Keil, Karl-Heinz; Wullbrandt, Dieter; Keller, Reinhold; and Engelhardt, Friedrich, 4,686,243, Cl. 521-149.000.
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- Engelhardt, Jonathan A. Efficiency photo-gram with stand-up display. 4,681,253, 7-21-87, Cl. 229-92.800.
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- Engelke, Fritz: *See—*
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Accumanno, Mario B.; Ball, Laurence G.; and Price, Macy J., 4,688,860, Cl. 312-125.000.

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Blair, Boyton T., 4,715,971, Cl. 252-8.510.

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Olsen, Joseph C.; and Steinbach, Richard H., 4,637,288, Cl. 83-375.000.

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Harman, S. Mitchell, 4,661,103, Cl. 604-62.000.

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Desport, Lucien A., 4,695,032, Cl. 249-112.000.

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Lew, Hyok S.; and Yoshida, Louis T., 4,699,012, Cl. 73-861.240.

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Morton, Bruce L.; and Engles, Bruce E., 4,713,797, Cl. 365-20

Engles, Richard D. Fishing rod holder. 4,676,019, 6-30-87 43-21.200.

Englisch, Marlies: *See—*

Panster, Peter; Englisch, Marlies; and Kleinschmit, 4,647,679, Cl. 556-9.000.

- English, Adrian M.: *See—*
  - Parker, Lawrence D.; and English, Adrian M., 4,650,679, Cl. 424-118.000.
- English China Clays Lovering Pochin & Co. Limited: *See—*
  - Watson, David J., 4,653,914, Cl. 356-344.000.
- English Clays Lovering Pochin & Company: *See—*
  - Goodman, Howard; and Fugler, Andrew R., 4,695,511, Cl. 428-404.000.
- English Clays Lovering Pochin & Company, Limited: *See—*
  - Burr, Kenneth J.; Smith, Laurence S.; and Hazelden, David, 4,704,899, Cl. 73-61.00R.
- English, David R., to Fashion Magic, Inc. Seat cover. 4,676,549, 6-30-87, Cl. 297-224.000.
- English Electric Company Limited, The: *See—*
  - Hyde, John A. C.; and Broughton, Jack, 4,660,375, Cl. 60-39.030.
  - Law, Hilton, 4,636,707, Cl. 322-35.000.
  - Topham, Harland G., 4,664,853, Cl. 261-62.000.
- English Electric Valve Company Limited: *See—*
  - Bailey, Philip C.; and Kitchin, Vaughan N., 4,646,140, Cl. 358-50.000.
  - Brady, Michael B. C.; and Crook, Archie W., 4,673,896, Cl. 333-13.000.
  - Carter, Richard G., 4,709,186, Cl. 315-3.500.
  - Cooper, Brian F.; and Esterson, Maurice, 4,658,181, Cl. 313-346.00R.
  - Donaldson, Timothy P.; and Menown, Hugh, 4,639,643, Cl. 315-344.000.
  - Esterson, Maurice; and Brady, Michael B. C., 4,672,340, Cl. 333-231.000.
  - Maitland, Arthur; Menown, Hugh; Strudwick, Ian A.; Weatherup, Clifford R.; and Carman, Robert J., 4,698,546, Cl. 313-446.000.
  - Menown, Hugh, 4,703,226, Cl. 313-595.000.
  - Nixon, Ralph D., 4,644,407, Cl. 358-242.000.
  - Nixon, Ralph D., 4,695,764, Cl. 313-497.000.
  - Nixon, Ralph D., 4,695,765, Cl. 313-497.000.
- English, George A.; and Marracino, Charles R., to Nidec-Torin Corporation. Molded plastic motor housing with integral stator mounting and shaft journalling projection. 4,682,065, 7-21-87, Cl. 310-90.000.
- English, George J.; and Chakrabarti, Kirti B., to GTE Products Corporation. Automobile headlight with combined heat and light shield. 4,642,514, 2-10-87, Cl. 313-111.000.
- English, George J.; Gagnon, Peter R.; and Leadvaro, Stephen J., to GTE Products Corporation. Single-ended high intensity discharge lamp and manufacture. 4,668,204, 5-26-87, Cl. 445-26.000.
- English, George J.: *See—*
  - Bergin, John A.; and English, George J., 4,660,128, Cl. 362-61.000.
  - Bergin, John A.; and English, George J., 4,707,767, Cl. 362-61.000.
  - Levin, Robert E.; and English, George J., 4,646,207, Cl. 362-80.000.
  - Levin, Robert E.; and English, George J., 4,646,215, Cl. 362-296.000.
- English, James D.: *See—*
  - Ritchey, Mary B.; Cano, Francis R.; O'Hara, Gerald J.; English, James D.; and Lin, Wenlii, 4,686,102, Cl. 424-92.000.
- English, John C.; Ondrey, John A.; and Voyce, Jason M. Process for the separation of water from a water-containing mixture or azeotrope with an extractant, and for the separation of water from said extractant. 4,636,284, 1-13-87, Cl. 203-18.000.
- English, John W., to Kayby Mills of N.C., Inc. Circular hosiery knitting machine drive. 4,663,945, 5-12-87, Cl. 66-56.000.
- English, Lawrence J.: *See—*
  - Ingrisano, Louis A.; Moon, Stephen H.; and English, Lawrence J., 4,637,075, Cl. 2-94.000.
- English, Philip H.; and Szpak, Anthony D. Apparatus for making varied strength beverages. 4,697,502, 10-6-87, Cl. 99-299.000.
- Englund, Arvid E.; Wynn, Stephen R.; Dolman, Rodney A.; Highton, Frederick J.; and Harris, Rickey D., to General Electric Company. Duplex radio transceiver having improved data/tone and audio modulation architecture. 4,680,749, 7-14-87, Cl. 370-11.000.
- Engman, Sonja A.: *See—*
  - Lindblom, Karl P. C.; and Engman, Sonja A., 4,684,253, Cl. 356-333.000.
- Engstrand, Bradley W. Portable humidifier. 4,699,737, 10-13-87, Cl. 261-24.000.
- Engstrom, Ake: *See—*
  - Kratz, Christer; Engstrom, Ake; and Karlsson, Goran, 4,642,427, Cl. 200-16.00C.
- Engstrom, David A. Spanner for torsion springs and method for its use. 4,691,428, 9-8-87, Cl. 29-426.600.
- Engstrom, Folke, to A. Ahlstrom Corporation. Apparatus for separating solid material in a circulating fluidized bed reactor. 4,664,887, 5-12-87, Cl. 422-147.000.
- Engstrom, Folke; and Sarkki, Juha, to A. Ahlstrom Corporation. Circulating fluidized bed reactor temperature control. 4,672,918, 6-16-87, Cl. 122-4.00D.
- Engstrom, Folke, to A. Ahlstrom Corporation. Method of generating energy from low-grade alkaline fuels. 4,676,177, 6-30-87, Cl. 110-345.000.
- Engstrom, Folke, to A. Ahlstrom Corporation. Apparatus for separating solids from flue gases in a circulating fluidized bed reactor. 4,699,068, 10-13-87, Cl. 110-216.000.
- Engstrom, Folke, to A. Ahlstrom Corporation. Circulating fluidized bed boiler. 4,708,092, 11-24-87, Cl. 122-4.00D.
- Engstrom, Keith A., to Illinois Tool Works Inc. Keyboard data entry system with hysteresis. 4,704,601, 11-3-87, Cl. 340-365.00E.
- Engstrom, Nils G.: *See—*
  - Angstrom, Hans E., 4,669,318, Cl. 73-862.090.
- Engstrom, Olof, to Forsvarets Forskningsanstalt. Method for comparison between a first optical signal and at least one other signal. 4,651,014, 3-17-87, Cl. 250-578.000.
- Engstrom, Randy J.: *See—*
  - Heggart, Ronald G.; McClintock, Willard K.; and Engstrom, Randy J., 4,715,042, Cl. 373-74.000.
- Engstrom, Ulf: *See—*
  - Oka, Kazuyoshi; Katayama, Mitsuhiro; Kohno, Toshihiko; Engstrom, Ulf; and Larssen, Svenn-Erik, 4,663,262, Cl. 430-108.000.
- Engstrom, Ulf F., to Hoganas AB. Powder mixture containing talloil free of segregation. 4,676,831, 6-30-87, Cl. 75-252.000.
- Engstrom, Ulf F. I.; Allroth, Sven E.; and Mustonen, Olavi M., to Hoganas AB. Sintered alloy. 4,702,772, 10-27-87, Cl. 75-243.000.
- Enhanced Energy Systems: *See—*
  - Eisenhawer, Stephen; Mulac, Anthony J.; Donaldson, A. Burl; and Fox, Ronald L., 4,648,835, Cl. 431-4.000.
- ENI-Ente Nazionale Idrocarburi: *See—*
  - Verdini, Antonio S.; and Viscomi, Giuseppe C., 4,638,046, Cl. 530-332.000.
- Enichem Elastomeri S.p.A.: *See—*
  - Bruzzone, Mario; Gordini, Silvano; and Wyllie, Ken, 4,714,747, Cl. 526-64.000.
  - Carbonaro, Antonio; and Ferraro, Domenico, 4,696,984, Cl. 526-98.000.
  - Carbonaro, Antonio; Gordini, Silvano; and Cucinella, Salvatore, 4,710,553, Cl. 526-142.000.
  - Gordini, Silvano; Carbonaro, Antonio; and Spina, Stanislao, 4,699,960, Cl. 526-81.000.
  - Roggero, Arnaldo, 4,680,407, Cl. 546-348.000.
- Enichem Elastomers Limited: *See—*
  - Correia, Joao M. G., 4,659,513, Cl. 260-97.000.
- Enichem Polimeri S.p.A.: *See—*
  - Dozzi, Giovanni, 4,663,380, Cl. 524-419.000.
  - Throckmorton, Morford C., 4,663,405, Cl. 526-144.000.
- Enichem Sintesi S.p.A.: *See—*
  - Bellussi, Giuseppe; Buonomo, Franco; Esposito, Antonio; Clerici, Mario; Romano, Ugo; and Notari, Bruno, 4,701,428, Cl. 502-8.000.
  - Broussard, Fabio; and Busetto, Carlo, 4,668,725, Cl. 524-219.000.
  - Calvino, Rosella; Fruttero, Roberta; Messori, Vittorio; and Rodio, Francesco, 4,671,818, Cl. 71-92.000.
  - Greco, Alberto; Busetto, Carlo; Cassar, Luigi; and Neri, Carlo, 4,684,726, Cl. 544-69.000.
  - Renzi, Fiorenzo; Rivetti, Franco; Romano, Ugo; and Gagliardi, Claudio, 4,713,433, Cl. 526-314.000.
  - Rivetti, Franco; Mizia, Franco; Garone, Guido; and Romano, Ugo, 4,659,845, Cl. 549-438.000.
- Enichem S.p.A.: *See—*
  - Bonelli, Fabio; Pessi, Antonello; and Verdini, Antonio S., 4,716,149, Cl. 514-12.000.
  - Kosinska, Wanda; Grzelak, Dorota; Penczek, Irena; and Bialy, Jan, 4,687,799, Cl. 524-100.000.
  - Sanjurjo, Angel; and Sancier, Kenneth M., 4,676,968, Cl. 423-350.000.
  - Sisto, Alessandro; Verdini, Antonio S.; and Virdia, Antonino, 4,713,367, Cl. 514-17.000.
- Enichem Tecnoresine S.p.A.: *See—*
  - Ferraresi, Andrea; and Griselli, Pierluigi, 4,703,090, Cl. 525-246.000.
- Enichen, Margaret C.: *See—*
  - Brelsford, David P.; Cerutti, Daniel D.; Coleman, Leslie S.; Davison, Gerald A.; Dewey, Pamela H.; Enichen, Margaret C.; Hartley, Sarah T.; Malinowski, Paul A.; Rogers, Roger W.; Tallman, Peter H.; and Wilczak, Lynn A., 4,674,038, Cl. 364-200.000.
- Enichimica Secondaria S.p.A.: *See—*
  - Invernizzi, Renzo; and Marcato, Federico, 4,663,404, Cl. 526-114.000.
- Enichimica S.p.A.: *See—*
  - Throckmorton, Morford C., 4,663,405, Cl. 526-144.000.
- Enidine Incorporated: *See—*
  - Houghton, Benjamin T., 4,709,791, Cl. 188-315.000.
- Eninger, James E.; Miller, Joseph; Murch, Charles K.; and Ginbey, Leland A., to TRW Inc. Ice penetrating method and apparatus. 4,651,834, 3-24-87, Cl. 175-18.000.
- Eniricerche S.p.A.: *See—*
  - Bonelli, Fabio; Pessi, Antonello; and Verdini, Antonio S., 4,716,149, Cl. 514-13.000.
  - Brunelli, Maurizio; Ferrari, Pierferdinando; Stroppa, Fabrizio; and Bellussi, Giuseppe, 4,654,446, Cl. 568-630.000.
  - De Antoniis, Mario; Fiorini, Mario; and Mazzamurro, Giuseppina, 4,714,769, Cl. 556-419.000.
  - Roggero, Arnaldo; and Gandini, Alberto, 4,701,498, Cl. 525-293.000.
  - Sisto, Alessandro; Verdini, Antonio S.; Virdia, Antonino; De Luca, Giovanna; Di Stazio, Giovanni; and Politi, Vincenzo, 4,713,368, Cl. 514-18.000.
- Enison, Brent M., to Prestige Skirting and Tablecloths Inc. Installment system for table skirting. 4,698,117, 10-6-87, Cl. 156-486.000.
- Enjo, Naonori; Noguchi, Masahiro; and Ide, Satoshi, to Daikin Kogyo Co., Ltd. Working fluids for Rankine cycle. 4,651,531, 3-24-87, Cl. 60-651.000.
- Enjo, Naonori; and Omure, Yukio, to Daikin Kogyo Co., Ltd. Azeotropic like composition. 4,659,505, 4-21-87, Cl. 252-364.000

Enjo, Naonori; Yagi, Toshiharu; and Kagami, Masato, to Daikin Industries Ltd. Non-electrification polymeric composite material. 4,664,846, 5-12-87, Cl. 252-511.000.

Enjo, Naonori; Noguchi, Masahiro, and Ide, Satoshi, to Daikin Kogyo Co., Ltd. Heat pump. 4,673,517, 6-16-87, Cl. 252-67.000.

Enjo, Naonori; Shinjo, Masayoshi; Okazaki, Yasuko; and Hayashi, Kazunori, to Daikin Industries Ltd. Deicing coating composition. 4,685,967, 8-11-87, Cl. 106-13.000.

Enjo, Naonori: *See—*
  Fukui, Shosin; Shinjo, Masayoshi; Aoyama, Hirokazu; Okazaki, Yasuko; Enjo, Naonori; and Hayashi, Kazunori, 4,673,712, Cl. 526-253.000.

Enjoji, Susumu: *See—*
  Nagai, Yasutaka; and Enjoji, Susumu, 4,676,106, Cl. 73-625.000.

Enk, Allan T.; Flaugher, Jeffery R.; Hagedorn, Floyd T.; and Leflet, Herbert A., Jr., to Libbey-Owens-Ford Co. Conveying, supporting and shaping glass sheets. 4,670,036, 6-2-87, Cl. 65-106.000.

Enk, Joseph O.: *See—*
  Bridges, Jack E.; and Enk, Joseph O., 4,646,277, Cl. 367-191.000.

Enkegaard, Torben, to F. L. Smidth & Co. A/S. Method and apparatus for producing clinker. 4,695,325, 9-22-87, Cl. 106-100.000.

Enkegaard, Torben, to F. L. Smidth & Co. A/S. Method and cooler for cooling granular material. 4,715,188, 12-29-87, Cl. 62-63.000.

Enkel Corporation: *See—*
  Keene, John F.; Kuller, Bengt L.; and Kemmeter, Robert G., 4,673,142, Cl. 242-58.300.

Enkes Marine B.V.: *See—*
  van der Aa, Leonardus J., 4,699,360, Cl. 254-345.000.

Enkner, Bernhard; Amon, Leopold; Kubelbock, Alfred; Trimmel, Wolfgang; Nalepka, Paul; Schropp, Leopold; Schwaighofer, Helmut; Pum, Reinhard; Traxler, Manfred; and Tasch, Franz, to Voest-Alpine Aktiengesellschaft. Tilting channel arrangement for guiding a molten material. 4,678,168, 7-7-87, Cl. 266-196.000.

Enkner, Bernhard; Stephani, Dietmar; Schropp, Leopold; and Stastny, Wilhelm, to Voest-Alpine Aktiengesellschaft. Arrangement for the production of vitrified slag. 4,678,419, 7-7-87, Cl. 425-143.000.

Enkner, Bernhard; Amon, Leopold; Kubelbock, Alfred; Trimmel, Wolfgang; Nalepka, Paul; Schropp, Leopold; Schwaighofer, Helmut; Pum, Reinhard; Traxler, Manfred; and Tasch, Franz, to Voest-Alpine Aktiengesellschaft. Electric melting furnace arrangement as well as a method of influencing the composition of a mineral melt for producing wool. 4,697,274, 9-29-87, Cl. 373-79.000.

Enko, Alfred: *See—*
  Krempl, Peter W.; Stubenberg, Johann; and Enko, Alfred, 4,667,127, Cl. 310-338.000.

Enkoji, Takashi: *See—*
  Orlowski, Ronald C.; Seyler, Jay K.; Colescott, Robert L.; Stahl, Glenn L.; Enkoji, Takashi; Geever, James E.; and Flanigan, Everett, 4,659,804, Cl. 530-307.000.

Enloe, Kenneth M.; and Wehman, Timothy L., to Kimberly-Clark Corporation. Apparatus and process for forming a laid fibrous web. 4,666,647, 5-19-87, Cl. 264-121.000.

Enloe, Kenneth M., to Kimberly-Clark Corporation. Elastic waist for disposable absorbent garment. 4,685,916, 8-11-87, Cl. 604-385.00A.

Enloe, Kenneth M., to Kimberly-Clark Corporation. Diapers with elasticized side pockets. 4,704,116, 11-3-87, Cl. 604-385.00A.

Enlow, David: *See—*
  Dogadko, Peter; and Enlow, David, 4,641,618, Cl. 123-335.000.

Enlund, Birger S. I., to ABA Invest AB. Hose clip. 4,667,375, 5-26-87, Cl. 24-274.00R.

Ennaoui, Ahmed: *See—*
  Tributsch, Helmut; Ennaoui, Ahmed; Jaegermann, Wolfram; and Fiechter, Sebastian, 4,649,227, Cl. 136-252.000.

Ennis, G. Thomas; and Chelton, Robert G., to N/S Corporation. Water filtration system. 4,652,368, 3-24-87, Cl. 210-97.000.

Ennis, James F., III, to Anderson, Mark L. Dripless dispenser for liquids and viscous fluids. 4,678,107, 7-7-87, Cl. 222-386.500.

Ennis, James F., III, to Anderson, Mark L. Two compartment mixing syringe. 4,693,706, 9-15-87, Cl. 604-87.000.

Ennis, Melvyn S. J. Hammer for use in a bore hole and apparatus for use therewith. 4,705,118, 11-10-87, Cl. 175-65.000.

Eno, Julius R., Jr.: *See—*
  Kobayashi, Masayasu; and Eno, Julius R., Jr., 4,698,550, Cl. 313-618.000.

Eno, Philip A.: *See—*
  Helinski, Richard R.; Lutz, Carl D.; Peer, Thomas R.; and Eno, Philip A., 4,714,936, Cl. 346-140.00R.

Enochs, R. Scott, to Tektronix, Inc. Method for attaching an optical fiber to a substrate to form an optical fiber package. 4,702,547, 10-27-87, Cl. 350-96.200.

Enoki, Sachio: *See—*
  Aoshima, Atsushi; Komatsu, Tamikuni; and Enoki, Sachio, 4,668,761, Cl. 528-230.000.

Enoki, Shigenaga; Yoshio, Kazuya; and Yamaguchi, Nobuo, to Honda Giken Kogyo Kabushiki Kaisha. Power-unit support structure of motorcycle. 4,696,364, 9-29-87, Cl. 180-228.000.

Enoki, Shigenaga, to Honda Giken Kogyo Kabushiki Kaisha. Vibration isolating pipe. 4,699,243, 10-13-87, Cl. 181-207.000.

Enoki, Takatomo; Yamasaki, Kimiyoshi; and Ohwada, Kuniki, to Nippon Telegraph & Telephone Corporation. Method for the manufacture of a Schottky gate field effect transistor. 4,694,564, 9-22-87, Cl. 437-40.000.

Enokian, Craig. Video game with playback of live events. 4,662,635, 5-5-87, Cl. 273-94.000.

Enokida, Susumu; and Ono, Jun, to Honda Giken Kogyo Kabushiki Kaisha. Body structure of a motor vehicle having exterior panels made of synthetic resins. 4,707,020, 11-17-87, Cl. 296-191.000.

Enokido, Nobuo: *See—*
  Suga, Yoshinori; Tanaka, Eiji; Enokido, Nobuo; and Maruyama, Yasuo, 4,645,797, Cl. 525-191.000.

Enokido, Shunji; Kodani, Hideyuki; and Ohta, Hajime, to Fujitsu Limited. Eraser for electronic blackboard. 4,670,751, 6-2-87, Cl. 340-706.000.

Enokimoto, Akito: *See—*
  Masuda, Tatsuo; Enokimoto, Akito; and Ohtsuka, Kazutosh 4,641,854, Cl. 280-701.000.

Enokizono, Takatoshi, to Kabushiki Kaisha Toshiba. Key input data emulation system. 4,710,869, 12-1-87, Cl. 364-200.000.

Enomiya, Takuji: *See—*
  Nakai, Mamoru; and Enomiya, Takuji, 4,638,094, Cl. 568-309.000.

Enomoto, Akio: *See—*
  Hattori, Isao; and Enomoto, Akio, 4,674,376, Cl. 83-285.000.
  Hattori, Isao; and Enomoto, Akio, 4,702,138, Cl. 83-785.000.
  Mizutani, Isao; and Enomoto, Akio, 4,692,581, Cl. 219-10.810.

Enomoto, Eyo, to Ibiden Kabushiki Kaisha. Ceramic wiring board and its production. 4,715,117, 12-29-87, Cl. 29-851.000.

Enomoto, Hirokazu, to Fuji Tekko Co., Ltd. Brake unit of power train output. 4,658,937, 4-21-87, Cl. 188-71.400.

Enomoto, Hiromu; Yasuda, Yasushi; Tahara, Akinori; and Kumagai, Masao, to Fujitsu Limited. Two-stage gate circuit providing inverted and non-inverted outputs. 4,703,202, 10-27-87, Cl. 307-443.000.

Enomoto, Hiromu: *See—*
  Tahara, Akinori; Enomoto, Hiromu; and Yasuda, Yasushi, 4,680,600, Cl. 357-15.000.

Enomoto, Hiroshi; Kawamata, Masanobu; Nomura, Akira; Aoyagi, Yoshiaki; and Ueda, Fusao, to Nippon Shinyaku Co., Ltd. Low dosage compositions of finely pulverized 2,4-diamino-6-(2,5-dichlorophenyl)-1,3,5-triazine and pharmaceutically acceptable acid addition salts thereof and administration thereof. 4,657,907, 4-14-87, Cl. 514-245.000.

Enomoto, Hiroshi; Kise, Masahiro; Ozaki, Masakuni; Kitano, Masahiko; and Morita, Iwao, to Nippon Shinyaku Co., Ltd. Olinecarboxylic acid derivatives. 4,659,734, 4-21-87, Cl. 514-255.000.

Enomoto, Hiroshi; Nomura, Tadatoshi; Aoyagi, Yoshiaki; Chokai, Shoichi; Fujita, Yukio; Kono, Tatsuhiko; Murase, Masao; Inoue, Kichiro; and Adachi, Masahiro, to Nippon Shinyaku Co., Ltd. 4-quinolone derivatives having anti-inflammatory, anti-allergic, antitussive, expectorant and antithrombotic activity. 4,711,898, 12-8-87, Cl. 514-312.000.

Enomoto, Hiroshi: *See—*
  Aoyagi, Yoshiaki; Okubo, Takashi; Tomita, Toshio; Nishida, Hiroshi; and Enomoto, Hiroshi, 4,642,307, Cl. 514-252.000.

Enomoto, Kanehiko: *See—*
  Yamada, Hideaki; Ryuno, Koitchiro; Enomoto, Kanehiko; and Watanabe, Ichiro, 4,661,456, Cl. 435-244.000.
  Yamada, Hideaki; Enomoto, Kanehiko; and Watanabe, Ichiro, 4,661,457, Cl. 435-244.000.

Enomoto, Kayo: *See—*
  Yamaguchi, Noriaki; Sugano, Shozo; and Enomoto, Kayo, 4,707,371, Cl. 426-462.000.

Enomoto, Koji: *See—*
  Suzuki, Kunihiko; and Enomoto, Koji, 4,669,569, Cl. 180-249.000.

Enomoto, Masami: *See—*
  Hara, Hajime; Orii, Shingo; Aoyama, Kazuho; and Enomoto, Masami, 4,639,503, Cl. 528-92.000.

Enomoto, Masao, to Ichikoh Industries, Ltd. Outside rear view mirror. 4,681,409, 7-21-87, Cl. 350-637.000.

Enomoto, Masao, to Ichikoh Industries Limited. Electric remote control mirror apparatus. 4,696,555, 9-29-87, Cl. 350-634.000.

Enomoto, Masayuki; Ishibashi, Ichiro; Yamashita, Sachihiro; Ichinose, Kiyohiro; and Kano, Toshiharu, to Honda Giken Kogyo Kabushiki Kaisha. Method and apparatus for assembling an insert assembly for a catalytic converter. 4,667,386, 5-26-87, Cl. 29-157.00R.

Enomoto, Osaomi; and Komatsuzaki, Katsuo, to Texas Instruments Incorporated. Semiconductor device fabrication process. 4,708,768, 11-24-87, Cl. 437-228.000.

Enomoto, Ryo; Yamauchi, Hidetoshi; and Tanikawa, Shoji, to Ibiden Co., Ltd. Silicon carbide substrates and a method of producing the same. 4,664,946, 5-12-87, Cl. 427-126.200.

Enomoto, Takamichi: *See—*
  Ohta, Wasaburo; Enomoto, Takamichi; and Uehara, Kiyohiro, 4,678,285, Cl. 350-345.000.

Enomoto, Yoshinori; Monma, Hideo; Ohta, Shunzo; and Sasaki, Takeshi, to Fujitsu Limited. Chip on chip type integrated circuit device. 4,703,483, 10-27-87, Cl. 371-24.000.

Enomoto, Yuji: *See—*
  Yoshimoto, Takeo; Umemoto, Mitsumasa; Igarashi, Keiichi; Kubota, Yutaka; Yamazaki, Hideo; Enomoto, Yuji; and Yanagita, Hirohisa, 4,692,466, Cl. 514-604.000.

Enos, Gary W.: *See—*
  Gambini, Michael R.; Martone, Ronald J.; Kearns, Donald S.; Enos, Gary W.; Franke, Rudi; and Schoeppy, Herbert, 4,645,933, Cl. 250-363.00S.

Enos, John F.: *See—*
  Dempsey, Russell M.; Fragala, Anthony R.; LaConti, Anthony B. and Enos, John F., 4,707,229, Cl. 204-129.000.

Enoshita, Ryosuke: *See—*
  Itoh, Hiroshi; Nakagawa, Toshimi; Nitta, Atsuhiko; Tanaka, Tomio; Kamio, Hideo; Enoshita, Ryosuke; Uejima, Tamotu

Ouchi, Takahiro; Abe, Kazuki; and Kobayashi, Sadao, 4,683,258, Cl. 524-434.000.

Enoxy Chemical Limited: *See—*
Jenkins, Derek K., 4,689,368, Cl. 525-247.000.

Enpece AB: *See—*
Thyren, Carl H.; and Hesthamar, Tore, 4,713,966, Cl. 73-149.000.

Enquist, Lynn W.: *See—*
George, Henry J.; Krzyzek, Richard A.; Enquist, Lynn W.; and Watson, Roger J., 4,673,641, Cl. 435-68.000.

Enrico, Bertin. Magnetic pen holder. 4,643,604, 2-17-87, Cl. 401-131.000.

Enrico, Franco: *See—*
Bava, Gianfranco; and Enrico, Franco, 4,651,174, Cl. 346-140.00R.

Enright, Mitchell K.: *See—*
Inman, Scott; and Enright, Mitchell K., 4,706,788, Cl. 188-378.000.

Enron Chemical Company: *See—*
Kiang, Webster W., 4,643,945, Cl. 428-349.000.

Enron Corp.: *See—*
Cunningham, Richard D.; and Grose, Ronald D., 4,653,321, Cl. 73-197.000.
Grose, Ronald D., 4,637,219, Cl. 62-199.000.
Lisowyj, Bohdan; Hitchcock, David C.; and Epstein, Henry, 4,678,647, Cl. 423-96.000.
Nichols, Leo F., 4,638,286, Cl. 338-34.000.

Enron, Inc.: *See—*
Lisowyj, Bohdan; Hitchcock, David; and Epstein, Henry, 4,643,110, Cl. 110-229.000.

Ensci, Inc.: *See—*
Fitzgerald, Maurice E.; Braunstein, David M.; Alkaitis, Saulius A.; and Pinsky, Naum, 4,708,918, Cl. 429-210.000.
Horiuchi, Tetsuro, 4,680,277, Cl. 501-27.000.
Mackenzie, John D.; and Horiuchi, Tetsuro, 4,652,535, Cl. 501-27.000.
Pinsky, Naum; and Alkaitis, Saulius A., 4,713,306, Cl. 429-218.000.

Enscore, David J.: *See—*
Gale, Robert M.; and Enscore, David J., 4,645,502, Cl. 604-896.000.

Ensign-Bickford Industries, Inc.: *See—*
Skutnik, Bolesh J.; and Brielmann, Harry L., Jr., 4,707,076, Cl. 350-96.340.

Ensign, Gordon S. Car safety seat. 4,674,800, 6-23-87, Cl. 297-465.000.

Ensinger, Helmut: *See—*
Weber, Karl-Heinz; Schneider, Claus; Walther, Gerhard; Hinzen, Dieter; Kuhn, Franz J.; Lehr, Erich; Ensinger, Helmut; and Troger, Wolfgang, 4,670,456, Cl. 514-424.000.

Ensley, Kenneth L.: *See—*
Perkins, Haywood A.; and Ensley, Kenneth L., 4,669,667, Cl. 239-467.000.

Ensley, R. Neal: *See—*
Cothran, Liggett A.; Morgan, Edward L.; Stevens, Robert E.; Holden, Homer N.; and Ensley, R. Neal, 4,655,986, Cl. 264-508.000.

Enso-Gutzeit Oy: *See—*
Forss, Kaj; Sten, Matti; Peltonen, Juhani; and Jokela, Veikko, 4,681,935, Cl. 536-56.000.
Kuhasalo, Antti; and Vikio, Pentti, 4,657,678, Cl. 210-512.200.
Lankinen, Matti; Engdahl, Holger; Kohonen, Raimo; Niskanen, Jukka; and Kosonen, Markku, 4,687,583, Cl. 210-739.000.
Puumalainen, Pertti, 4,639,942, Cl. 378-045.000.
Simanainen, Jyrki, 4,683,816, Cl. 100-121.000.
Vikio, Pentti, 4,671,878, Cl. 210-512.300.

Ensphere Concept International, Inc.: *See—*
Rossman, Wendell E., 4,671,693, Cl. 403-174.000.

Esslin, Frieder H., to Castle Company. Electrosurgical apparatus having a safety circuit. 4,662,369, 5-5-87, Cl. 128-303.130.

Esslin, Frieder H., to Castle Company. Electrosurgical generator. 4,712,544, 12-15-87, Cl. 128-303.140.

Enstrom, Hans. Medical lancet. 4,676,244, 6-30-87, Cl. 128-314.000.

Enstrom, Hans. Blood lancing device. 4,712,548, 12-15-87, Cl. 128-314.000.

Enstrom, Ronald E., to RCA Corporation. Vapor deposition apparatus and method of using same. 4,703,718, 11-3-87, Cl. 118-715.000.

Enstrom, Ronald E.: *See—*
Kaganowicz, Grzegorz; Enstrom, Ronald E.; and Robinson, John W., 4,705,760, Cl. 437-234.000.

Ensuiko Sugar Refining Co., Ltd.: *See—*
Hashimoto, Hitoshi; Shibata, Takuzo; Nagano, Teruo; Hara, Kozo; Kuwahara, Nobuhiro; and Yashiki, Ikuo, 4,659,583, Cl. 426-629.000.

Ensz, Randy: *See—*
Nikkel, Lee F.; Baerg, Barry W.; Ensz, Randy; and Frank, Ray E., 4,646,063, Cl. 111-73.000.

Entac Co., Ltd.: *See—*
Nozawa, Yoshikuni, 4,644,209, Cl. 310-198.000.

Entani, Etsuzo; Fujiyama, Seiichi; Ohmori, Shoji; and Masai, Hiroshi, to Nakano Vinegar Co., Ltd. Novel bacterium, *Acetobacter altoacetigenes* MH-24, useful for the fermentation production of vinegar. 4,654,306, 3-31-87, Cl. 435-253.000.

Entech, Inc.: *See—*
O'Neill, Mark J., 4,672,949, Cl. 126-440.000.
O'Neill, Mark J., 4,711,972, Cl. 136-246.000.

Entek Manufacturing Inc.: *See—*
Johnson, Peter E.; and Young, James, 4,648,417, Cl. 134-105.000.

Entenmann's Inc.: *See—*
Lang, Keven W.; Eberhardt, George M.; Entenmann, William J.; and Shipman, Frank P., 4,645,674, Cl. 426-94.000.

Entenman, Alan W., to Radyne Corporation. Data transmission system with error correcting data encoding. 4,691,318, 9-1-87, Cl. 371-43.000.

Entenmann, Robert: *See—*
Bonitz, Jorg; Entenmann, Robert; Miller, Bernhard; Rauch, Hans; Rohde, Siegfried; Unland, Stefan; and Viess, Walter, 4,700,677, Cl. 123-425.000.

Entenmann, William J.: *See—*
Lang, Keven W.; Eberhardt, George M.; Entenmann, William J.; and Shipman, Frank P., 4,645,674, Cl. 426-94.000.

Enterprise Brass Works, Inc.: *See—*
Klop, Elmer P., 4,637,522, Cl. 220-322.000.
Klop, Elmer P.; and LeBlanc, Leo J., 4,646,773, Cl. 137-68.100.

Enterprises International, Inc.: *See—*
Hawley, Michael E.; and Roth, Jack, 4,704,064, Cl. 414-592.000.

Enthone, Incorporated: *See—*
Hajdu, Juan B.; and Bastenbeck, Edwin W., 4,663,240, Cl. 428-545.000.
Sullivan, Thomas E.; and Kulak, Mark A., 4,673,521, Cl. 252-79.300.

Entravision, Inc.: *See—*
Newton, Walter A., 4,714,464, Cl. 604-118.000.

Entriken, Raymond A.: *See—*
Nelson, Roy A.; Entriken, Raymond A.; and Grieves, Randolph C., 4,684,072, Cl. 241-172.000.

Entrikin, Raymond A., to Epworth Manufacturing Co., Inc. Mechanical seal. 4,634,134, 1-6-87, Cl. 277-12.000.

Entringer, David C.; and Neisen, Gerald F., to Brunswick Corporation. Engine coupler for stern drive. 4,634,391, 1-6-87, Cl. 440-75.000.

Entringer, Guy P.: *See—*
Vorachek, Michael J.; Entringer, Guy P.; Meives, Otis E.; Lynch, Gary L.; and Lutzke, Anthony J., 4,683,704, Cl. 53-461.000.

Entwistle, Brian; Roberts, Peter; and Rogerson, John M., to British Aerospace PLC. Industrial processing and manufacturing systems. 4,698,766, 10-6-87, Cl. 364-468.000.

Entwistle Company, The: *See—*
Krafft, Frederic B., 4,709,542, Cl. 57-16.000.

Entwistle, James A. Applicator for wallboard tape. 4,689,107, 8-25-87, Cl. 156-465.000.

Entwistle, James R., to British Nuclear Fuels plc. Ion concentration analysis and apparatus employing standard addition techniques. 4,668,346, 5-26-87, Cl. 204-1.00T.

Enushi Shangyo Co., Ltd.: *See—*
Shiraishi, Takashi; and Kitamura, Shiro, 4,687,328, Cl. 356-384.000.

Envirex Inc.: *See—*
Davie, Richard L.; and Gass, Donald N., 4,668,387, Cl. 210-150.000.
Rasper, Susan M.; and Wiegand, James H., 4,663,042, Cl. 210-525.000.
Smith, George W.; and Wittmann, John W., 4,663,038, Cl. 210-195.400.

Enviro-Clear Company, Inc.: *See—*
Casey, Francis J.; DePass, Ernest T.; and Gilman, Kevin R., 4,673,514, Cl. 210-783.000.

Enviro-Spray Systems, Incorporated: *See—*
Magid, David J.; Svitila, Barbara; and Kalriess, William, 4,679,706, Cl. 222-130.000.
Schmidt, Richard; and Pizzo, Joseph A., Sr., 4,641,485, Cl. 53-429.000.
Schmidt, Richard; and Pizzo, Joseph A., 4,696,145, Cl. 53-436.000.

Envirodyne, Inc.: *See—*
Wong, John M., 4,673,505, Cl. 210-611.000.

Environheat Limited: *See—*
Lamb, Patrick R. J.; Joyce, Terrance F.; and Scouse, Bernard R., 4,662,187, Cl. 62-274.000.

Environmental Air Contractors, Inc.: *See—*
Rogalla, Lyle H., 4,686,121, Cl. 427-378.000.

Environmental Air Control, Inc.: *See—*
Shields, William, 4,637,301, Cl. 98-115.300.

Environmental Diagnostics, Inc.: *See—*
Kelton, Arden A., 4,696,797, Cl. 422-101.000.
Lattuada, Charles P.; and Gladden, Frank R., Jr., 4,709,819, Cl. 206-524.800.

Environmental Elements Corp.: *See—*
Kercheval, Mark R.; and Fickus, Lawrence W., 4,655,804, Cl. 55-324.000.

Environmental Management Associates, Inc.: *See—*
Ward, Irl E., 4,680,133, Cl. 252-153.000.

Environmental Products & Services Co., Inc.: *See—*
Lewis, Robert L., Jr.; and Hudson, J. Albert, 4,685,586, Cl. 220-305.000.

Environmental Protection Systems: *See—*
Webster, James B., 4,710,751, Cl. 340-522.000.

Environmental Research Institute of Michigan: *See—*
Crimmins, Thomas R.; and Brown, William M., 4,644,585, Cl. 382-48.000.
Larrowe, Vernon L., 4,663,541, Cl. 307-219.100.
McCubbrey, David; and Friedman, Theron, 4,685,144, Cl. 382-49.000.
Politis, Demetrios T.; and Licata, William H., 4,692,765, Cl. 342-106.000.
Upatnieks, Juris, 4,643,515, Cl. 350-3.670.
Upatnieks, Juris, 4,711,512, Cl. 350-3.700.
Zuk, David M.; and Larrowe, Vernon L., 4,636,719, Cl. 324-83.00D.

Environmental Resources, Inc.: *See—*
Simcox, Allan W., 4,709,689, Cl. 126-448.000.

Environmental Security Incorporated: *See—*
Greene, Jay S., 4,636,325, Cl. 252-75.000.
Environmental Tectonics Corporation: *See—*
Melrose, Richard C.; and McIntosh, Lionel D., 4,678,914, Cl. 250-343.000.
Wachsmuth, Robert H.; and Brusch, Donald W., 4,710,128, Cl. 434-46.000.
Environments, Limited: *See—*
LaForge, Laurence E., 4,643,164, Cl. 126-44.000.
Envirotech Corporation: *See—*
Armitage, Jack R.; and Haymore, Ralph B., 4,647,215, Cl. 366-266.000.
Davis, Steven S.; Mueller, Max A.; and Janecek, Kenneth F., 4,697,511, Cl. 100-37.000.
Davis, Steven S., 4,710,293, Cl. 210-225.000.
Envopak Group Limited: *See—*
Arthur, Frank H., 4,690,444, Cl. 292-324.000.
Enyo, Hiroji: *See—*
Miyabayashi, Toshio; Sakabe, Nobuyuki; Udagawa, Yoshiyuki; Enyo, Hiroji; and Takemura, Yasuhiko, 4,675,362, Cl. 525-208.000.
Enz, Ulrich E.: *See—*
De Wit, Hendrik J.; Brouha, Marcel; Enz, Ulrich E.; Jager, Kornelis; Van Der Borst, Albertus J. C.; and Turk, Gijsbertus W., 4,685,012, Cl. 360-125.000.
Enzaki, Yoshiki; Kitahara, Kazuki; Terasaka, Satoru; Mori, Kenji; and Kimura, Takeshi, to Director-General of Agency of Industrial Science & Technology. Combustor of gas turbine. 4,695,247, 9-22-87, Cl. 431-352.000.
Enzo Biochem, Inc.: *See—*
Stavrianopoulos, Jannis G., 4,707,352, Cl. 424-1.100.
Stavrianopoulos, Jannis G., 4,707,440, Cl. 435-6.000.
Enzo-Gutzeit OY: *See—*
Nuranen, Tapani; Savolainen, Erkki; and Kohonen, Raimo, 4,678,574, Cl. 210-327.000.
EOA Systems, Inc.: *See—*
McCormick, Peter E.; Edwards, Rick C.; Autry, Walter D., Jr.; Culbertson, Timothy D.; Goch, Jerome F.; and Linder, Marc S., 4,676,142, Cl. 92-130.00R.
Eoga, Anthony B. J., to Warner-Lambert Company. Liquid denture cleanser composition and method of application. 4,701,223, 10-20-87, Cl. 134-2.000.
EOL$_3$ Company, Inc.: *See—*
Dill, James M., 4,695,718, Cl. 250-213.0VT.
Eotec Corporation: *See—*
Krohn, David A.; Maack, David R.; Vinarub, Edmond L.; and Ellison, John R., Jr., 4,679,029, Cl. 340-347.00P.
Krohn, David A., 4,703,309, Cl. 340-347.00P.
Eotek Corporation: *See—*
Krohn, David A.; Maack, David R.; Vinarub, Edmond L.; and Ellison, John R., Jr., 4,698,616, Cl. 340-347.00P.
Eparco: *See—*
Bavaveas, Tristan, 4,709,425, Cl. 4-228.000.
Epars, Michel, to Auxilec. High speed synchronous machine having a rotor provided with magnets arranged for orthoradial magnetic induction. 4,700,096, 10-13-87, Cl. 310-153.000.
Epe, Alfred. Servovalve for pipe flange connection. 4,651,768, 3-24-87, Cl. 137-219.000.
Epel, Joseph N., to Budd Company, The. Fibrous armor material. 4,639,387, 1-27-87, Cl. 428-113.000.
Epel, Joseph N.; Morse, John J., III; and Trebilcock, Terry N. Method of making leaf spring. 4,707,317, 11-17-87, Cl. 264-136.000.
Epel, Joseph N.: *See—*
Wilkinson, Robert E.; and Epel, Joseph N., 4,643,126, Cl. 118-405.000.
Ephrath, Linda M.: *See—*
Bennett, Reid S.; Ephrath, Linda M.; Schwartz, Geraldine C.; and Selwyn, Gary S., 4,675,072, Cl. 156-626.000.
Epic Metals Corporation: *See—*
Landis, Donald H., 4,685,264, Cl. 52-252.000.
EPID, Inc.: *See—*
Beilin, Solomon I.; and Truong, Long K., 4,680,103, Cl. 204-299.00R.
Epis S.A.: *See—*
Bar-Tana, Jacob, 4,634,795, Cl. 562-590.000.
Bar-Tana, Jacob, 4,689,344, Cl. 514-527.000.
Bar-Tana, Jacob; Witte, Ernst-Christian; Hagenbruch, Bernd; Pill, Johannes; and Stegmeier, Karlheinz, 4,711,896, Cl. 514-570.000.
Epitestudomanyi Intezet & Konnyuipari Szerelo es Epito Vallalat: *See—*
Nagy, Istvan; Nagy, Ferenc; Pozsgai, Istvan; Karatson, Laszlo; Gabori, Andor; Toth, Kalman; and Zubretzky, Jeno, 4,691,485, Cl. 52-125.100.
Epler, Alan H. Diesel fuel additive. 4,682,984, 7-28-87, Cl. 44-56.000.
Eplett, Gene W. Multi-stepped gameboard apparatus. 4,696,476, 9-29-87, Cl. 273-241.000.
Epley, Lee R.: *See—*
Everman, Wilburn D.; and Epley, Lee R., 4,649,689, Cl. 52-701.000.
Epoch Company, Ltd.: *See—*
Ukisu, Hiroshi, 4,690,645, Cl. 434-309.000.
Epoxy Technology, Inc.: *See—*
Banfield, Charles E., 4,637,197, Cl. 53-428.000.
Eppe, Jacques: *See—*
Bossand, Bernard; Eppe, Jacques; Faure, Alain; and Leygue, Gilles, 4,684,391, Cl. 71-24.000.

Eppendorf Geratebau Netheler & Hinz GmbH: *See—*
Gerken, Hero; and Gora, Heinz-Jurgen, 4,713,219, Cl. 422-102.0
Hofmeier, Gerhard; Petersen, Karl; and Schroeder, Wolfgang 4,714,527, Cl. 204-1.00T.
Epper, Wolfgang: *See—*
Heckmann, Wolfgang; and Epper, Wolfgang, 4,715,956, C 210-363.000.
Epperson, David L., to John Fluke Mfg. Co., Inc. Particulate spac for inhibiting Newton rings in touch sensitive overlays. 4,696,36 9-29-87, Cl. 428-325.000.
Epperson, George B.: *See—*
Georges, Richard P.; and Epperson, George B., 4,642,938, C 47-2.000.
Eppinger, Bernhard: *See—*
Janda, Ralf; and Eppinger, Bernhard, 4,636,533, Cl. 522-14.000
Janda, Ralf; and Eppinger, Bernhard, 4,640,9[illegible], Cl. 522-14.000
Eppinger, Timothy L. Vehicle support assembly. 4,643,014, 2-17-87, C 72-305.000.
Eppink, Jay M., to Hughes Tool Company. Downhole progress cavity type drilling motor with flexible connecting rod. 4,636,1 1-13-87, Cl. 418-48.000.
Eppink, Jay M., to Hughes Tool Company. Connector housing 4,641,717, 2-10-87, Cl. 175-74.000.
Eppink, Jay M., to Hughes Tool Company. Moineau type gear mechanism with resilient sleeve. 4,676,725, 6-30-87, Cl. 418-48.000.
Eppink, Jay M., to Hughes Tool Company. Downhole progress cavity type drilling motor with flexible connecting rod. 4,679,63 7-14-87, Cl. 175-107.000.
Epple, Anton; Trube, Hans; Pfeiffer, Martin; Huber, Guntram; a Berger, Josef, to Daimler-Benz Aktiengesellschaft. Windshi wiper. 4,670,934, 6-9-87, Cl. 15-250.320
Epple, Anton; Trube, Hans; and Pfeiffer, Martin, to Daimler-Be Aktiengesellschaft. Wiper arm in motor vehicle windscreen wip installations. 4,674,145, 6-23-87, Cl. 15-250.190.
Epple, Peter C., to General Motors Corporation. Torque compensating spring arrangement for seat belt retractor. 4,640,472, 2-3-87, C 242-107.000.
Eppler, Susan G.: *See—*
McAuley, James A.; and Eppler, Susan G., 4,708,212, C 175-42.000.
Epps, Joyce E.; Ng, Kung-Tat; Tuman, Robert W.; and Wu, Wu-Na to McNeilab, Inc. Hypoglycemic 5-substituted pyrrolidinylide compounds, compositions and use. 4,670,436, 6-2-87, Cl. 514-237.0
Epps, Joyce E.; Ng, Kung-Tat; Tuman, Robert W.; and Wu, Wu-Na to McNeilab, Inc. Hypoglycemic method using 5-substituted py rolidinylidene compounds. 4,716,163, 12-29-87, Cl. 514-237.000.
Epps, Leon A.: *See—*
Burns, Hugh D.; Zemyan, Susan E.; Epps, Leon A.; Krame Alfred V.; and Dannals, Robert F., 4,638,051, Cl. 534-14.000.
Eppstein, Deborah A.; Fraser-Smith, Elizabeth; and Matthews, Thom R., to Syntex (U.S.A.) Inc. Method for enhancing the anti-infect activity of muramyldipeptide derivatives. 4,684,625, 8-4-87, C 514-19.000.
Eppstein, Lee B.; Mohler, Robert D.; and Reuveny, Shaul, to Ne Brunswick Scientific Company, Inc. Fermentor control syste 4,680,267, 7-14-87, Cl. 435-289.000.
Epsco, Inc.: *See—*
Bear, Richard W., 4,704,833, Cl. 52-309.200.
Fulton, David A., 4,663,634, Cl. 343-756.000.
Epsilon Limited Partnership: *See—*
Robinson, McDonald; Behee, Ronald D.; deBoer, Wiebe B.; a Johnson, Wayne L., 4,654,507, Cl. 219-405.000.
Epstein, Barry M. General purpose uninterruptible power supp 4,675,538, 6-23-87, Cl. 307-64.000.
Epstein, Barry M. Protector network for A-C equipment. 4,675,7 6-23-87, Cl. 361-56.000.
Epstein, Carol C.: *See—*
Houtchens, Robert A.; Cheng, Roberta C.; McCoy, Karen M Epstein, Carol C.; and Moll, Norman G., 4,675,292, C 435-94.000.
Epstein, David. Panoramic rear view automobile mirror. 4,695,1 9-22-87, Cl. 350-615.000.
Epstein, David I.; and Holland, Charles J., to Data General Corpo tion. Microsequencer in a data processing system using stack sto for controlling the sequencing of microroutines. 4,679,138, 7-7-87 364-200.000.
Epstein, Harry. Portable water-jet system. 4,650,470, 3-17-87 604-149.000.
Epstein, Henry: *See—*
Lisowyj, Bohdan; Hitchcock, David; and Epstein, He 4,643,110, Cl. 110-229.000.
Lisowyj, Bohdan; Hitchcock, David C.; and Epstein, He 4,678,647, Cl. 423-96.000.
Epstein, Howard D. Article of headwear convertible between hat neckwarmer and method. 4,641,380, 2-10-87, Cl. 2-209.100.
Epstein, Irving, to Washington Chain & Supply, Inc. Releaseable ho 4,658,748, 4-21-87, Cl. 114-217.000.
Epstein, Max: *See—*
Raviv, Gil; Marhic, Michel E.; and Epstein, Max, 4,643,514, 350-3.600.
Epstein, Michael. Solar radiation filter and reflector device and me of filtering and reflecting solar radiation. 4,674,823, 6-23-87, 350-1.700.
Epstein, Norman. Plug for heat exchanger tubes. 4,653,540, 3-31-87, 138-89.000.

- Epstein, Norman. Concealed post lock. 4,688,405, 8-25-87, Cl 70-14.000.
- Epstein, Paul; Petschek, Harry; LaWhite, Eric; Strohl, Clair; Coyne, Henry; Kaleskas, Edward; and Ad[illegible]iya, George, to Omni-Flow, Inc. Infusion system having plural fluid input ports and at least one patient output port. 4,696,671, 9-29-87, Cl 604-67.000.
- Epstein, Peter C.: *See*—
  - Maurer, Robert; and Epstein, Peter C., 4,637,244, Cl 73-3.000.
- Epstein, Ronald A., to Stauffer Chemical Company. High yield carbonylation of halo-hydrocarbons. 4,668,816, 5-26-87, Cl 560-105.000.
- Epstein, Ronald A., to Stauffer Chemical Company. Single phase carbonylation of aromatic halides to carboxylic acid salts. 4,713,484, 12-15-87, Cl 562-406.000.
- Eptaminitakis, Yannis, to Vickers Public Limited Company. Vessel having demountable submerged propeller unit. 4,634,389, 1-6-87, Cl 440-53.000.
- Epworth Manufacturing Co., Inc.: *See*—
  - Entrikin, Raymond A., 4,634,134, Cl 277-12.000.
  - Nelson, Roy A.; Entriken, Raymond A.; and Grieves, Randolph C., 4,684,072, Cl 241-172.000.
- Equip-Mark, Inc.: *See*—
  - Hume, Ronald W., 4,635,691, Cl 141-94.000.
- Equipement Automobiles Marchal: *See*—
  - Auzolat, Jean P.; and Gagneux, Georges, 4,677,333, Cl 310-239.000.
  - Ferry, Jacques H., 4,644,616, Cl 24-602.000.
  - Palmier, Rene G.; Perrier, Pierre P.; and Phounsombath, Sing K., 4,686,501, Cl 335-256.000.
  - Perraudin, Hubert A., 4,683,785, Cl 82-1.00C.
  - Perraudin, Hubert A., 4,706,483, Cl 72-84.000.
- Equipment Development Company, Inc.: *See*—
  - Swan, Leo, 4,702,223, Cl 125-3.000.
  - Swan, Leo, 4,714,294, Cl 299-39.000.
- Equipment Merchants International Inc.: *See*—
  - Hatch, Edmond F., 4,673,020, Cl 164-40.000.
- Equitime, Inc.: *See*—
  - Terzian, Berj A., 4,671,673, Cl 368-82.000.
- Equivest, Inc.: *See*—
  - Lang, James J., 4,710,304, Cl 210-734.000.
- Equus Inc.: *See*—
  - Chung, Szu-Chi, 4,697,220, Cl 361-100.000.
- ER Fluid Developments Limited: *See*—
  - Stangroom, James E., 4,664,236, Cl 192-35.000.
- Era, Akio: *See*—
  - Matsui, Shingo; Ikeda, Hidetsugu; Era, Akio; and Nishimura, Sanji, 4,639,355, Cl 423-112.000.
- Era, Masashi: *See*—
  - Ishihara, Joo; Ogawa, Toshio; Era, Masashi; and Sato, Ken-ichi, 4,697,320, Cl 29-132.000.
- Era, Susumu; Yokokura, Hisao; Iwasaki, Kishiro; Nakata, Tadao; Kitamura, Teruo; and Mukoh, Akio, to Hitachi, Ltd. Liquid crystal compound and liquid crystal composition including the same. 4,653,866, 3-31-87, Cl 350-350.00S.
- Era, Susumu: *See*—
  - Iwasaki, Kishiro; Era, Susumu; Yokokura, Hisao; Nakata, Tadao; and Mukoh, Akio, 4,634,228, Cl 350-341.000.
  - Yokokura, Hisao; Era, Susumu; Abe, Hidetoshi; Nakata, Tadao; Kitamura, Teruo; and Mukoh, Akio, 4,645,305, Cl 350-351.000.
- Era, Yoshiyuki; and Kumagai, Yasuo, to Okabe Co., Ltd. Joint for reinforcing bar employed in concrete construction. 4,695,178, 9-22-87, Cl 403-14.000.
- Eralp, Emin: *See*—
  - Johansson, Nils E.; Eralp, Emin; and Itil, Turan M., 4,683,892, Cl 128-639.000.
- Eramo, Mark P.; and Holmes, John M., to Combustion Engineering, Inc. Mounting and traversing assembly for in situ particle size measuring device. 4,665,760, 5-19-87, Cl 73-866.500.
- Erani, Homi K., to K. O. Lee Company. Grinding attachment. 4,662,116, 5-5-87, Cl 51-3.000.
- Erani, Homi K., to K. O. Lee Company. Saw blade sharpening fixture. 4,667,542, 5-26-87, Cl 76-79.000.
- Erard, Francois; le Garff, Patrick; and Soussan, Solomon, to Chloe Chimie. Process for degassing vinyl chloride-base polymers and copolymers prepared in bulk and polymers and copolymers having an improved sieving capability resulting therefrom. 4,670,538, 6-2-87, Cl 528-486.000.
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- Erlandsson, Kjell I.; DiFonzo, Mark A.; and Howald, Peter, to Aqua-Chem, Inc. Incinerator. 4,651,654, 3-24-87, Cl. 110-254.000.
- Erlandsson, Kjell I., to Kelley Company, Inc. Vehicle restraint. 4,695,216, 9-22-87, Cl. 414-401.000.
- Erlecke, Jens: *See—*
  - Goldhammer, Albert; Schleicher, Hans; Stangenberg, Hartmut; Gasteier, Rolf; and Erlecke, Jens, 4,709,197, Cl. 318-480.000.
- Erlenbach, Hans. Machine for the production of molded parts from foamed plastic. 4,685,872, 8-11-87, Cl. 425-4.00R.
- Erlenkamper, Siegbert; and Eisenblatter, Jurgen, to Batelle - Institut e.V. Vessel for bulk materials. 4,676,098, 6-30-87, Cl. 73-290.00V.
- Erlich, Henry A.: *See—*
  - Mullis, Kary B.; Erlich, Henry A.; Arnheim, Norman; Horn, Glenn T.; Saiki, Randall K.; and Scharf, Stephen J., 4,683,195, Cl. 435-6.000.
  - Saiki, Randall K.; and Erlich, Henry A., 4,683,194, Cl. 435-6.000.
- Erlong, Etienne: *See—*
  - Brullmann, Cuno; Lavergnolle, Arnaud F.; and Erlong, Etienne, 4,646,503, Cl. 52-646.000.
- Erma Inc.: *See—*
  - Shirato, Kozo; Hiraizumi, Kazuo; Kobayashi, Masashi; and Kawashima, Kazuyasu, 4,652,364, Cl. 210-87.000.
- Erma Optical Works, Ltd.: *See—*
  - Shirato, Kozo; Kawashima, Kazuyasu; and Sato, Yoshihiro, 4,651,087, Cl. 324-71.400.
  - Shirato, Kozo; Hiraizumi, Kazuo; Kawashima, Kazuyasu; Okuyama, Shinya; Kobayashi, Masashi; Tanaka, Minoru; Takeya, Akira; Yamamoto, Yoshio; Koyama, Yasuo; Shinohara, Satoshi; and Yunoki, Toru, 4,680,552, Cl. 324-439.000.
- Ermacora, Rino; and Jehl, Patrice, to Kuhn S.A. Rotary mower having a stabilization device. 4,669,256, 6-2-87, Cl. 56-13.600.
- Ermacora, Rino; and Jehl, Patrice, to Kuhn S.A. Mowing machine for cutting hay and cereal grass. 4,694,640, 9-22-87, Cl. 56-16.400.
- Ermacora, Rino; and Krebs, Thierry, to Kuhn, S.A. Farm machine with improved transmission device. 4,714,123, 12-22-87, Cl. 180-14.400.
- Erman, Lee D.; Clancey, William J.; London, Philip E.; Scott, A. Carlisle; Bennett, James S.; and Lark, Jay S., to Teknowledge, Inc. Knowledge engineering tool. 4,658,370, 4-14-87, Cl. 364-513.000.
- Erman, Marko; Vodjdani, Nakita; and Theeten, Jean-Bernard, to U.S. Philips Corporation. Semiconductor device comprising a light wave guide. 4,652,077, 3-24-87, Cl. 350-96.120.
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- Ermel, Bernard A.: *See—*
  - Lanigan, John J., Sr.; Glickman, Myron; George, Thazhuthekudiyil V.; and Ermel, Bernard A., 4,715,762, Cl. 414-126.000.
- Ermossa AG: *See—*
  - Blecher, Peter, 4,640,073, Cl. 52-403.000.
- Ernco Industries, Inc.: *See—*
  - Coleman, Ernest W., 4,672,305, Cl. 324-72.000.
- Erndt, Hans; Link, Erich; Martin, Adolf; Palloch, Herbert; and Wittler, Hilmar, to Frankl & Kirchner GmbH & Co KG. Electromotive variable-speed and control drive particularly for use in industrial sewing machines. 4,712,660, 12-15-87, Cl. 192-18.00B.
- Erndt, Hans: *See—*
  - Lengsfeld, Karl; Link, Erich; and Erndt, Hans, 4,703,841, Cl. 192-12.0BA.
  - Palloch, Herbert; and Erndt, Hans, 4,648,855, Cl. 474-144.000.
  - Palloch, Herbert; and Erndt, Hans, 4,687,461, Cl. 474-148.000.
- Ernest H. McCoy: *See—*
  - Mitchell, Debra J., 4,704,117, Cl. 604-391.000.
- Ernest, Ivan: *See—*
  - Gosteli, Jacques; Ernest, Ivan; Lang, Marc; and Woodward, Robert B., 4,692,442, Cl. 514-195.000.

von Sprecher, Andreas; Ernest, Ivan; Main, Alan J.; and Beck, Andreas, 4,649,215, Cl. 560-152.000.

Ernest, Michael V.: *See*—

Kim, Gwan; and Ernest, Michael V., 4,654,319, Cl. 502-304.000.

Erni, Bruno: *See*—

Vuilleumier, Cyril; and Erni, Bruno, 4,634,287, Cl. 368-27.000.

Erni, Markus; Salvisberg, Kurt; and Zund, Marcel, to Maschinenfabrik Rieter AG. Method and arrangement for evaluating the performance of a yarn processing machine. 4,656,465, 4-7-87, Cl. 340-679.000.

Erni, Markus; and Salvisberg, Kurt, to Maschinen Abrik Rieter AG. Method and apparatus for controlling the effective length of thread packages. 4,715,550, 12-29-87, Cl. 242-39.000.

Erno Raumfahrttechnik GmbH: *See*—

Bruns, Helmut; Freiheit, Artur; and Kolley, Arnold, 4,705,546, Cl. 55-182.000.

Cohrt, Claus, 4,663,933, Cl. 60-214.000.

Ehrig, Dietrich; and Jacobs, Hans-Juergen, 4,691,515, Cl. 60-526.000.

Erdmann, Hermann; and Rahm, Heiko, 4,710,359, Cl. 422-191.000.

Guenther, Hans-Juergen; Golbeck, Ortwin; and Nauck, Joachim, 4,702,440, Cl. 244-158.00R.

Hornung, Ernst; and Rex, Dietrich, 4,690,355, Cl. 244-173.000.

Hosemann, Rolf; Mayland, Walter; and Walter, Juergen, 4,688,240, Cl. 378-70.000.

Ernsberger, Earl R., to Custon Auto Exteriors. Applying designs to auto exteriors. 4,634,607, 1-6-87, Cl. 427-282.000.

Ernst, Alfons, to Dr. Johannes Heidenhain GmbH. Position measuring device with a scanned absolute scale. 4,700,062, 10-13-87, Cl. 250-231.0SE.

Ernst, Alfons, to Dr. Johannes Heidenhain GmbH. Multistage angle encoder with an improved allocation of coarse code information to fine code information. 4,712,088, 12-8-87, Cl. 340-347.00P.

Ernst, Donald M.; and Toth, Jerome E., to Thermacore, Inc. Unidirectional heat pipe. 4,683,940, 8-4-87, Cl. 165-32.000.

Ernst, Hans-H., to Britax-Kolb GmbH & Co. Deflection device for a safety belt arrangement having progressive belt clamping. 4,682,791, 7-28-87, Cl. 280-806.000.

Ernst, Hans-Hellmut; and Lochbihler, Edmund, to Britax-Kolb GmbH & Co. Safety-belt system. 4,687,253, 8-18-87, Cl. 297-478.000.

Ernst, Hans-Otto; and Jakobsmeyer, Helmut, to Hella KG Hueck & Co. Headlight for motor vehicles. 4,679,127, 7-7-87, Cl. 362-294.000.

Ernst, Hansgeorg; Eckhardt, Heinz; and Paust, Joachim, to BASF Aktiengesellschaft. Preparation of riboflavin, and 4,5-dimethyl-N-(D)-ribityl-2-(O-alkoxyphenylazo)-aniline intermediates. 4,656,275, 4-7-87, Cl. 544-251.000.

Ernst, Hansgeorg; Littmann, Wolfgang; and Paust, Joachim, to BASF Aktiengesellschaft. α-(o-chlorophenyl)-aminomethylene-β-formylaminopropionitrile. 4,716,243, 12-29-87, Cl. 558-395.000.

Ernst, Hansgeorg: *See*—

Buschmann, Ernst; Himmele, Walter; Eckhardt, Heinz; Ernst, Hansgeorg; Rademacher, Wilhelm; and Jung, Johann, 4,705,553, Cl. 71-76.000.

Gehrken, Henning-Peter; Ernst, Hansgeorg; and Paust, Joachim, 4,645,845, Cl. 549-407.000.

Ernst, Hanspeter: *See*—

Hintsch, Otto; and Ernst, Hanspeter, 4,640,318, Cl. 139-439.000.

Ernst, Helmut; Breier, Alfred; Schwalbach, Manfred; Will, Karl-Heinz; Cameron, Alan B.; and Bates, Peter C., to Metallgesellschaft Aktiengesellschaft; and New Zealand Steel Ltd. Apparatus for removing oversize from the hot material discharged from a rotary kiln used to produce sponge iron by a direct reduction of iron oxide containing materials. 4,680,009, 7-14-87, Cl. 432-117.000.

Ernst, Horst M.: *See*—

Neder, Gunter; Schurger, Rainer; and Ernst, Horst M., 4,643,594, Cl. 384-478.000.

Ernst Leitz Wetzlar GmbH: *See*—

Atalar, Abdullah; Fischbach, Herbert; and Huelsmann, Dieter, 4,645,937, Cl. 250-561.000.

Atalar, Abdullah; and Fischbach, Herbert, 4,663,745, Cl. 367-87.000.

Atalar, Abdullah, 4,706,048, Cl. 333-32.000.

Bletz, Walter, 4,639,134, Cl. 356-223.000.

Bletz, Walter; and Magel, Rolf, 4,647,175, Cl. 354-473.000.

Bletz, Walter; and Magel, Rolf, 4,694,155, Cl. 250-214.00R.

Crema, Rolf, 4,711,545, Cl. 354-213.000.

Crema, Rolf, 4,712,897, Cl. 354-219.000.

Dransfeld, Klaus; and Heitmann, Knut, 4,669,313, Cl. 73-606.000.

Franek, Henning; Broemer, Heinz; Deutscher, Klaus, deceased; and Schaefer, Roland, 4,714,721, Cl. 523-113.000.

Heitmann, Knut; Hoppe, Martin; Schneider, Eckhard; and Thaer, Andreas, 4,672,012, Cl. 430-3.000.

Jacoby, Hans-Dieter; and Schmidt, Peter, 4,695,215, Cl. 414-225.000.

Schaefer, Klaus-Dieter, 4,712,903, Cl. 354-433.000.

Ernst, M. Eric; and Jewett, Walter L., to Pivot Manufacturing Company. Vehicle top carrier. 4,682,719, 7-28-87, Cl. 224-310.000.

Ernst, Richard J.: *See*—

Blucher, William J.; Ernst, Richard J.; and Peterson, Francis C., 4,642,012, Cl. 411-371.000.

Ernst, Roberta D.: *See*—

Khanna, Pyare; Ernst, Roberta D.; and Stone, Anne J., 4,654,311, Cl. 436-175.000.

Ernst, Ronald E., to Mayline Company, Inc. Multidrawer cabinet. 4,666,221, 5-19-87, Cl. 312-341.00R.

Ernst Schmutz GmbH: *See*—

Mierswa, Christian; and Schmutz, Friedrich, 4,691,723, Cl. 134-167.00C.

Ernst, Wentworth A.: *See*—

Hira, Govind L.; Osial, Thaddeus A.; and Ernst, Wentworth A. 4,665,294, Cl. 219-121.0LD.

Ernst, William R.: *See*—

Myerson, Allan S.; and Ernst, William R., 4,698,321, Cl. 502-25.000.

Ernstrom, Carl A.; and Brown, Charles G., to DEC International, Inc. Process for the production of cheese. 4,689,234, 8-25-87, Cl. 426-38.000.

Ero-Con, Inc.: *See*—

Atkins, David A.; and Atkins, Donald F., 4,705,427, Cl. 405-36.000.

Eron, Murat, to RCA Corporation. Lift-off technique for producing metal pattern using single photoresist processing and oblique angle metal deposition. 4,687,730, 8-18-87, Cl. 430-324.000.

Eros, Bela: *See*—

Pungor, Erno; Toth, Klara; Pal, Ferenc; Eros, Bela; Nagy, Jozsef; and Bihatsi, Laszlo, 4,634,982, Cl. 324-448.000.

Eros, Donald A., to Allied Corporation. Single step purification of sulfur dioxide gas prepared by the combustion of sulfur containing compounds. 4,659,556, 4-21-87, Cl. 423-522.000.

Eroskey, Richard E.; and Miller, Larry G., to B. F. Goodrich Company, The. Method of making liner sections for rotary pulverizer 4,678,530, 7-7-87, Cl. 156-245.000.

Erowa AG: *See*—

Schneider, Rudolf, 4,686,768, Cl. 33-172.00B.

Erpenbach, Heinz; Gehrmann, Klaus; Lork, Winfried; and Prinz, Peter, to Hoechst Aktiengesellschaft. Process for separating iodine and its compounds from the carbonylation products obtained by subjecting dimethylether, methyl acetate or methanol to a carbonylation reaction. 4,664,753, 5-12-87, Cl. 203-29.000.

Erps, Lorri A.: *See*—

Beaubien, Randall S.; and Erps, Lorri A., 4,700,462, Cl 437-187.000.

Errani, Deo, to Costruzioni Italiane Serrature Affini C.I.S.A. S.p.A. Cylinder lock with key, incorporating a picking preventing means 4,683,740, 8-4-87, Cl. 70-419.000.

Erratico, Pietro, to SGS Microelettronica S.p.A. Low noise, hig thermal stability attenuator of the integratable type. 4,716,32 12-29-87, Cl. 307-540.000.

Erratico, Pietro: *See*—

Cini, Carlo; Diazzi, Claudio; and Erratico, Pietro, 4,672,326, C 330-254.000.

Cini, Carlo; Diazzi, Claudio; and Erratico, Pietro, 4,673,889, C 330-10.000.

Cini, Carlo; Diazzi, Claudio; and Erratico, Pietro, 4,698,519, C 307-254.000.

Errecart, Jean-Louis, to Binet Feutres S. A. Screen for papermakin press. 4,658,863, 4-21-87, Cl. 139-383.00A.

Erregierre Industria Chimica SpA: *See*—

Molinari, Egidio, 4,639,449, Cl. 514-234.000.

Ersfeld, Dean A.; Sandvig, Timothy C.; and Gobran, Diane S., Minnesota Mining and Manufacturing Company. Orthopedic cast article and method. 4,683,877, 8-4-87, Cl. 128-90.000.

Ersfeld, Dean A.: *See*—

Scholz, Matthew T.; Bartizal, Dennis C.; Reed, Katherine Larson, Wayne K.; Ersfeld, Dean A.; Sandvig, Timothy C.; Buckanin, Richard S., 4,667,661, Cl. 128-90.000.

Ersfeld, Heinrich: *See*—

Schulte, Klaus; and Ersfeld, Heinrich, 4,680,003, Cl. 425-206.0

Schulte, Klaus; Nadolski, Klaus; Ersfeld, Heinrich; Ebeling, fried; Boden, Heinrich; and Schneider, Walter, 4,695,166, 366-160.000.

Ershig, A. Herbert, to Ershigs, Inc. Sealing adapter for pipe for dif ing material. 4,660,864, 4-28-87, Cl. 285-173.000.

Ershigs, Inc.: *See*—

Ershig, A. Herbert, 4,660,864, Cl. 285-173.000.

Erski, Richard, to NAP Consumer Electronics Corp. Apparatus generating oscilloscope trigger signals. 4,692,802, 9-8-87, 358-139.000.

Erskine, William G.; and Marsden, Richard J., to Domino Pri Sciences PLC. Ink jet printing system. 4,714,931, 12-22-87, 346-75.000.

Ersoz, Nathaniel H.; and Hettiger, James, to RCA Corporation. Tr voltage tracking arrangement. 4,658,437, 4-14-87, Cl. 455-180.0

Erste Wiener Wach- und Schliessgesellschaft AG: *See*—

Kamhuber, Peter, 4,684,793, Cl. 235-449.000.

Ertell, Carolyn A.: *See*—

Gustafson, Carl G.; and Ertell, Carolyn A., 4,707,361 424-154.000.

Erth, Dieter: *See*—

Grenzendoerfer, Dietmar; Wierzgon, Achim; Mueller, Ge Erth, Dieter; Guenther, Ludwig; and Kuenzel, Rolf, 4,63 Cl. 66-84.00A.

Erthel, Mira: *See*—

Bulst, Wolf-Eckhart; Erthel, Mira; and Zibis, Peter, 4,679,01 333-195.000.

Ertl, Josef; and Wiezer, Hartmut, to Hoechst Aktiengesellschaf cess for the preparation of 1-oxa-3,8-diaza-4-oxo-spiro(4.5) compounds. 4,689,416, 8-25-87, Cl. 546-19.000.

Ertley, Holmes E. Waste recycling kit. 4,682,699, 7-28-8 211-71.000.

Ervin, Essie, Jr. Heated mats for melting snow and ice from o surfaces. 4,646,818, 3-3-87, Cl. 165-703.000.

Erweka Apparatebau GmbH: *See*—
  Herzfeldt, Claus D., 4,655,094, Cl. 73-863.310.
  Kaminski, Reiner, 4,660,713, Cl. 198-443.000.
  Schneider, Ortwin; and Georgitsis, Nikolaos, 4,641,534, Cl. 73-856.000.
  Schneider, Ortwin; and Georgitsis, Nikolaos, 4,708,023, Cl. 73-863.310.

Erwied, Werner; Upadek, Horst; and Wegemund, Bernd, to Henkel Kommanditgesellschaft auf Aktien. Stabilized polyvinyl chloride molding compositions. 4,656,210, 4-7-87, Cl. 524-167.000.

Erwied, Werner; Upadek, Horst; and Wegemund, Bernd, to Henkel Kommanditgesellschaft auf Aktien. Stabilized polyvinyl chloride molding compositions 4,686,255, 8-11-87, Cl. 524-104.000.

Erwied, Werner: *See*—
  Hase, Christian; Wegemund, Bernd; Erwied, Werner; and Krampitz, Dieter, 4,668,711, Cl. 524-207.000.

Erwin, Bohler: *See*—
  Buhler, Ludwig; Erwin, Bohler; and Bruderer, Werner, 4,660,457, Cl. 89-12.000.

Erwin, Douglas A.; and Skinner, Robert L., to Data General Corporation. System for storing and retreiving display information in a plurality of memory planes. 4,691,295, 9-1-87, Cl. 364-900.000.

Erwin, Edward R. Device to monitor press fittings. 4,692,775, 9-8-87, Cl. 346-118.000.

Erwin, Larry: *See*—
  Cavanaugh, James E.; Erwin, Larry; and Hetherington, Robert D., 4,690,308, Cl. 222-156.000.

Erwin, Lewis; and Arimond, John, to Massachusetts Institute of Technology. Mixing liquids of different viscosity. 4,674,885, 6-23-87, Cl. 366-76.000.

Erwin Sick GmbH Optik-Elektronik: *See*—
  Dabelstein, Klaus; and Skrobol, Christian, 4,693,601, Cl. 356-237.000.
  Hippenmeyer, Heinrich, 4,707,250, Cl. 209-548.000.
  Lauer, Reinhard; and Hartmann, Werner, 4,644,483, Cl. 364-569.000.
  Sackmann, Karl H.; and Anselment, Christoph, 4,684,768, Cl. 200-61.430.
  Sick, Erwin, 4,660,929, Cl. 350-104.000.
  Sick, Erwin, 4,671,663, Cl. 356-430.000.
  Sick, Erwin, 4,681,453, Cl. 356-394.000.
  von Stein, Walter, 4,691,647, Cl. 112-80.180.
  Winterer, Hermann, 4,668,859, Cl. 250-221.000.

Erwin, Warren L. Truck coupling arrangement. 4,667,976, 5-26-87, Cl. 280-438.00R.

Erxleben, Tomas, to Deutsche AG fur Unterhaltungselectronic OHG. Video camera. 4,673,267, 6-16-87, Cl. 352-242.000.

Erzinger, Bradley F. Method and composition for removing asbestos-containing materials. 4,693,755, 9-15-87, Cl. 134-4.000.

Erzsebet, Almasine B.; Almasi, Istvan; Toth, Arpad; Benke, Istvan; and Bajaky, Arpad, to Barsi Erzsebet Almasine; and Banyaszati Aknamelyito Vallalat. Optoelectromechanical apparatus for measuring physical parameters, especially pressure or force. 4,674,900, 6-23-87, Cl. 374-131.000.

ESAB Welding Products, Inc.: *See*—
  Eldridge, Richard A., 4,713,521, Cl. 219-130.500.

Esaka, Hajime: *See*—
  Kawai, Nobuyasu; Hirano, Minoru; Esaka, Hajime; and Fujimoto, Hirofumi, 4,671,930, Cl. 420-107.000.

Esaki, Hideya: *See*—
  Yamada, Toshio; and Esaki, Hideya, 4,700,329, Cl. 365-210.000.

Esaki, Hiroshi: *See*—
  Onishi, Hiroshi; Esaki, Hiroshi; and Kohashi, Tadao, 4,670,307, Cl. 427-261.000.

Esaki, Leo; Chang, Leroy L.; and Wang, Wen-I, to International Business Machines Corporation. Semiconductor device with hole conduction via strained lattice. 4,665,415, 5-12-87, Cl. 357-22.000.

Esaki, Mitsunobu: *See*—
  Honda, Yoshiyuki; Esaki, Mitsunobu; Minagawa, Yoshiji; Uemura, Kazuho; and Inoue, Masahiro, 4,665,544, Cl. 379-104.000.

Esaki, Motoharu: *See*—
  Mizuno, Tooru; Oosugi, Keizi; Esaki, Motoharu; and Ogawa, Takao, 4,682,287, Cl. 364-561.000.

Esakoff, Greg F.: *See*—
  Lakoski, Robert P.; and Esakoff, Greg F., 4,685,312, Cl. 70-14.000.

Esakoff, Gregory F.: *See*—
  Cunningham, David W.; and Esakoff, Gregory F., 4,703,412, Cl. 364-140.000.

Esanu, Andre, to Societe de Conseils de Recherches et d'Applications Scientifiques (S.C.R.A.S.). 6-phenethylaminoalkyl-furo-(3,4-c)-pyridine derivatives and therapeutic compositions containing the same. 4,659,719, 4-21-87, Cl. 514-302.000.

Esanu, Andre, to Societe de Conseils de Recherches et d'Applications Scientifiques. Thienopyridine derivatives and anti-thrombotic compositions containing the same. 4,681,888, 7-21-87, Cl. 514-301.000.

Esanu, Andre, to Societe de Conseils de Recherches et d'Applications Scientifiques. Pyranoderivatives, their preparation and therapeutic compositions containing the same. 4,704,454, 11-3-87, Cl. 536-24.000.

Escache, Gerard: *See*—
  Godfrin, Jean-Philippe; Landrevie, Bernard; and Escache, Gerard, 4,691,633, Cl. 102-202.000.

Escaillas, Gerard: *See*—
  Herbulot, Jean; and Escaillas, Gerard, 4,648,498, Cl. 192-94.000.
  Herbulot, Jean; and Escaillas, Gerard, 4,655,332, Cl. 192-70.280.

Escaravage, Gerard, to Aciers et Outillage Peugeot. Buckle, especially for a safety belt. 4,677,715, 7-7-87, Cl. 24-637.000.

Escaravage, Gerard, to Aciers et Outillage Peugeot. Buckle, especially for a safety belt for an automobile vehicle. 4,685,177, 8-11-87, Cl. 24-641.000.

Escaravage, Gerard, to Aciers et Outillage Peugeot. Device for adjusting the position of a strap return element, of in particular a safety belt for a motor vehicle. 4,702,493, 10-27-87, Cl. 280-808.000.

Escaravage, Gerard, to Aciers et Outillage Peugeot. Device for adjusting the position of a strap return element of a safety belt. 4,702,494, 10-27-87, Cl. 280-808.000.

Esch, Friedrich D.; and Price, John G., to AMF Incorporated. Packaging machines. 4,696,146, 9-29-87, Cl. 53-529.000.

Esch, Friedrich D.; and Price, John G., to AMF Incorporated. Bag filling apparatus. 4,698,953, 10-13-87, Cl. 53-529.000.

Eschard, Gilbert, to U.S. Philips Corporation. Electron multiplier element, electron multiplier device comprising said multiplying element, and the application to a photomultiplier tube. 4,649,314, 3-10-87, Cl. 313-103.0CM.

Eschbach, Eugene A.: *See*—
  Ames, Kenneth R.; Doesburg, James M.; Eschbach, Eugene A.; Kelley, Roy C.; and Myers, David A., 4,669,536, Cl. 166-68.000.

Esche, John C., to Milsco Manufacturing Company. Adjustable seat assembly for vehicle. 4,687,250, 8-18-87, Cl. 297-320.000.

Eschenbach, Paul W.: *See*—
  Clements, Larry R.; and Eschenbach, Paul W., 4,674,273, Cl. 57-287.000.

Eschenweck, Dieter: *See*—
  Sander, Wilfried; Mielke, Siegfried; and Eschenweck, Dieter, 4,658,706, Cl. 92-213.000.
  Weiss, Franz; Eschenweck, Dieter; and Stark, Manfred, 4,687,043, Cl. 164-97.000.

Escher, James C., to Gyro-Flex Corporation. Precessional exercising device. 4,640,508, 2-3-87, Cl. 272-128.000.

Escher, James C., to Gyro-Flex Corporation. Precessional exercising device. 4,684,124, 8-4-87, Cl. 272-128.000.

Escher, James C., to Gyro-Flex Corporation. Precessional exercising device. 4,703,928, 11-3-87, Cl. 272-128.000.

Escher Wyss GmbH: *See*—
  Biondetti, Mario; and Baur, Roland, 4,686,005, Cl. 162-60.000.
  Pellhammer, Maurus, 4,650,125, Cl. 241-21.000.

Eschermann, Guy; and Lemarquand, Pierre, to La Telemecanique Electrique. Electric control device adaptable to a two state switching device. 4,689,714, 8-25-87, Cl. 361-167.000.

Eschermann, Guy; and Lemarquand, Pierre, to La Telemecanique Electrique. Device for snap fitting an electric apparatus onto a support bar. 4,701,067, 10-20-87, Cl. 403-326.000.

Eschmeier, Heinz: *See*—
  Dotzel, Klaus P.; and Eschmeier, Heinz, 4,667,596, Cl. 101-211.000.

Eschnauer, Heinz: *See*—
  Lutz, Reinhold; Wendt; Helgo, deceased; Meinhardt, Helmut; Eschnauer, Heinz; and Lugscheider, E., 4,671,932, Cl. 420-452.000.

Eschwey, Manfred; and van Bonn, Rolf, to Mexxer Griesheim GmbH. Process for preparing fluoridated surfaces of polymers. 4,701,290, 10-20-87, Cl. 264-40.100.

ESCO Corporation: *See*—
  Briscoe, Terry L., 4,689,904, Cl. 37-135.000.
  Churchill, Robin K., 4,715,908, Cl. 148-327.000.
  Fleck, Robert S.; and Kreitzberg, John S., 4,633,601, Cl. 37-118.00R.
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Espo, Andrew M., to Creative Talent, Inc. Motion picture screen assembly. 4,705,355, 11-10-87, Cl. 350-117.000.

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Saldin, Neil P.; Strum, Bruce J.; Livoti, Michael V.; and Maurer, Allan, 4,665,501, Cl. 364-900.000.

Espy, James R., to Minnesota Mining and Manufacturing Company. Disposable light-tight canister. 4,671,409, 6-9-87, Cl. 206-397.000.

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Chirdon, Charles P., 4,637,435, Cl. 138-30.000.

LeBreton, Edward T., 4,705,468, Cl. 425-116.000.

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Soporowski, Andrzej L., 4,698,928, Cl. 40-16.400.

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Esser, Gerhard. Riser for drawing off liquids. 4,708,176, 11-24-87, Cl. 141-65.000.

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Coffey, Ronald J.; and Wassouf, Christo M., 4,689,601, Cl. 338-214.000.

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- Juzswik, David L.; Webb, Nathaniel; and Floyd, William M., 4,698,748, Cl. 364-200.000.
- Lahiff, John E., 4,711,3[illegible]7, Cl. 239-125.000.
- Landry, Louis G.; and Nunez, Fabian, 4,704,335, Cl. 428-36.000.
- Lavallee, Francois A., 4,670,523, Cl. 525-420.000.
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- Levine, Herbert R.; Gerrato, Stephen G.; and Pouiin, Benoit L., 4,661,314, Cl. 264-508.000.
- McGregor, Charles W.; and Sutto, Melody L., 4,693,936, Cl. 428-383.000.
- Pali, Christopher, 4,664,329, Cl. 242-78.000.
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- Pavlov, Ivan K., 4,640,164, Cl. 83-304.000.
- Poulin, Benoit L., 4,705,657, Cl. 264-22.000.
- Roberts, Jonathan, 4,704,322, Cl. 428-251.000.
- Sklarski, Dennis J.; and Doyle, Arthur F., 4,637,852, Cl. 156-307.400.
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- x Industrial Chemicals, Inc.: *See—*
  - Unger, Kim N., 4,689,142, Cl. 209-166.000.
- x Industries, Inc.: *See—*
  - Phlipot, James R.; Pinkston, Steve R.; and Nurre, Harry, 4,643,215, Cl. 137-15.000.
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- n-Tec Corporation: *See—*
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  - Magar, Surendar S.; and Essig, Daniel L., 4,713,749, Cl. 364-200.000.
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- g, Robert A. Method and apparatus for forming cube of frozen uid. 4,685,304, 8-11-87, Cl. 62-68.000.
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  - Blot, Gerard, 4,714,232, Cl. 249-90.000.
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  - Gnanou, Yves; and Hild, Gerard, 4,644,033, Cl. 524-590.000.
  - ache, Jean C.; and Servant, Mireille, 4,673,265, Cl. 351-217.000.
  - ennequin, Jean-Claude, 4,714,330, Cl. 351-239.000.
  - oncour, Christian, 4,650,300, Cl. 351-204.000.
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  - houpice, Bernard, 4,685,782, Cl. 351-130.000.
  - ombard, Gerard, 4,653,234, Cl. 51-216.0LP.
  - aja, Georges H., 4,650,616, Cl. 264-2.600.
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- er, John L.: *See—*
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  - -Saigh, Abbas, 4,642,223, Cl. 422-191.000.
  - hramm, Laurier L., 4,637,417, Cl. 137-4.000.
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  - linger, Steven L.; and Mohring, Donald H., 4,644,755, Cl. 2-126.000.
- ements DUBIX (S.A.): *See—*
  - nge, Francois; and Adler, Michel, 4,671,001, Cl. 38-143.000.
- ements Lemer & Cie: *See—*
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  - Martin Saint Leon, Daniel, 4,651,397, Cl. 29-243.520.
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- Estep, Glenn T.: *See—*
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- Esterl, Robert: *See—*
  - Schreiner, Horst; Rothkegel, Bernhard; Weiser, Josef; and Esterl, Robert, 4,671,889, Cl. 252-181.200.
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  - Johnson, Bruce K.; Estevez, Juan; Goward, Robert M.; and Whiteside, George D., 4,707,106, Cl. 354-481.000.
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- Estkowski, Michael H.: *See—*
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- Estlick, Raymond J.: *See—*
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    - Helary, Louis J.; and Grenon, Pierre, 4,710,342, Cl. 376-272.000.
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    - Etienne, Georges, 4,684,263, Cl. 368-220.000.
    - Giger, Urs, 4,655,606, Cl. 368-160.000.
    - Juan, Alain, 4,672,742, Cl. 29-840.000.
    - Meister, Pierre-Andre , 4,684,262, Cl. 368-157.000.
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    - Mock, Elmar; and Gabus, Georges A., 4,692,033, Cl. 368-280.000.
    - Mock, Elmar; and Hotz, Jean-Marie, 4,700,874, Cl. 224-178.000.
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    - Stampfli, Jean-Marcel, 4,674,175, Cl. 29-588.000.
    - Studer, Bruno, 4,701,987, Cl. 29-25.350.
    - Thomke, Ernst; and Zaugg, Hans, 4,636,037, Cl. 350-334.000.
    - Vuilleumier, Cyril, 4,676,659, Cl. 368-37.000.
    - Wullschleger, Andreas; and Brunner, Othmar, 4,638,627, Cl. 59-80.000.
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    - Ketzler, John H. A., 4,714,924, Cl. 340-825.210.
    - Resnick, David R.; and Bach, Randall E., 4,701,920, Cl. 371-25.000.
    - Sullivan, Daniel C.; and Mazorol, Earl A., Jr., 4,712,388, Cl. 62-514.00R.
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    - Sisk, Robert A., 4,686,378, Cl. 290-2.000.
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    - Garcia, Edgard, 4,698,671, Cl. 358-111.000.
- Etablissement Public de Diffusion dit "Telediffusion de France": *See—*
    - Alard, Michel, 4,707,730, Cl. 358-13.000.
    - Blineau, Joseph; Pommier, Daniel; and Thomas, Claude, 4,688,218, Cl. 370-106.000.
    - Carlach, Jean-Claude, 4,696,020, Cl. 377-48.000.
    - Collec, Jean P.; and Rigal, Michel R., 4,667,334, Cl. 375-116.000.
    - Le Dain, Rene ; and Havot, Henri, 4,677,399, Cl. 333-116.000.
    - Leger, Alain A., 4,709,232, Cl. 340-731.000.
    - Leseure, Jean-Yves; Pierre, Charbonnel; and Laure, Christian, 4,638,167, Cl. 250-551.000.
    - Macheboeuf, Guy, 4,713,695, Cl. 358-183.000.
    - Palicot, Jacques P.; and Dublet, Guy P., 4,696,015, Cl. 375-14.000.
    - Veillard, Jacques, 4,713,689, Cl. 358-146.000.
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    - Lucas, Jacques; Matecki, Marc; Poulain, Michel; and Poulain, Marcel, 4,647,545, Cl. 501-30.000.
- Etablissement Sinoval: *See—*
    - Mathes, Gunther, 4,644,660, Cl. 33-143.00M.
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    - Mettler, Karl, 4,641,546, Cl. 74-598.000.
    - Mettler, Karl; Oertle, Max; and Spottl, Hermann, 4,667,530, Cl. 74-493.000.
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    - Graffin, Andre J. J., 4,635,688, Cl. 141-1.000.
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    - Villemin, Daniel; and Romand, Paul, 4,656,692, Cl. 17-44.100.
- Etablissements Bolle Georges, Robert et Maurice: *See—*
    - Bolle, Robert, 4,689,837, Cl. 2-440.000.
- Etablissements Caillau: *See—*
    - Irio, Francis; Chene, Richard; and Uzac, Pierre, 4,648,157, Cl. 24-23.00R.
- Etablissements Charles Coutier: *See—*
    - Coutier, Charles, 4,664,225, Cl. 182-77.000.
- Etablissements Farnier & Penin: *See—*
    - Laville, Bernard; and Prouteau, Philippe, 4,696,511, Cl. 296-216.000.
- Etablissements Georges Klein: *See—*
    - Ulmann, Jean-Pierre, 4,658,940, Cl. 188-265.000.
- Etablissements L. Lacroix Fils: *See—*
    - Werding, Wilfried J., 4,657,030, Cl. 131-70.000.
- Etablissements Lauzier: *See—*
    - Lauzier, Rene, 4,673,017, Cl. 160-22.000.
    - Lauzier, Rene; Rollin, Jean; Choquelle, Jean; Dumas, Gerard; Breat, Francois; Rousson, Maurice; and Defour, Paule, 4,705,286, Cl. 280-281.00R.
- Etablissements Linguanotto: *See—*
    - Linguanotto, Louis, 4,685,730, Cl. 297-316.000.
- Etablissements Lucas G.: *See—*
    - Lucas, Gerard, 4,643,364, Cl. 241-55.000.
- Etablissements Maurice Maillard: *See—*
    - Monka, Edouard, 4,639,241, Cl. 474-902.000.
- Etablissements Morel - Ateliers Electromecaniques de Favieres: *See—*
    - Morel, Jacques; and Morel, Didier, 4,711,975, Cl. 174-92.000.
    - Morel, Jacques; and Morel, Didier, 4,712,285, Cl. 29-458.000.
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    - Jarreau, Francois-Xavier; and Koenig, Jean-Jacques, 4,716,171, Cl. 514-305.000.
- Etablissements Neu: *See—*
    - Barroyer, Paul; Foucher, Bernard; Ladent, Claude; and Wicke, Jean P., 4,676,303, Cl. 165-78.000.
- Etablissements Pellenc & Motte: *See—*
    - Pellenc, Roger J. P., 4,644,648, Cl. 30-228.000.
- Etablissements Poirier S.A.: *See—*
    - Chabrol, Jean-Jacques; and Lambert, Jean-Pierre, 4,678,233, Cl. 297-429.000.
- Etablissements Pompes Guinard: *See—*
    - Lepert, Claude, 4,712,984, Cl. 417-391.000.
- Etablissements Vullierme S.A.: *See—*
    - Vullierme, Paul, 4,708,352, Cl. 280-11.260.
- Etablissments Poirier S.A.: *See—*
    - Charbrol, Jean-Jacques; and Lambert, Jean-Pierre, 4,712,830, Cl. 297-42.000.
- Etablissments Staubli-Verdol: *See—*
    - Palau, Joseph; and Bassi, Dario, 4,702,286, Cl. 139-455.000.
- Etak, Inc.: *See—*
    - Buxton, James L.; Phillips, Alan C.; and Honey, Stanley K. 4,686,642, Cl. 364-607.000.
    - Phillips, Alan C., 4,646,015, Cl. 324-253.000.
- Etani, Kenji. Water treatment systems. 4,692,314, 9-8-87, Cl. 422-265.000.
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    - Bertrand, Jean-Paul A.; Guezou, Jean-Pierre R.; Balquet, Robert J. Marcouyoux, Sylvain J. A.; and Jodelet, Francois C. L. 4,646,866, Cl. 180-126.000.
    - Chaumeau, Alain; Crotet, Eric; Kerdraon, Alain; and Ragonnet, Jean-Paul, 4,714,022, Cl. 102-476.000.
    - Chizallet, Pierre J.; Drevet, Jean C.; Monnatte, Henri J.; Meillant, Henri P.; and Taillandier, Yves J., 4,672,544, Cl. 364-414.000.
    - Durant, Jacques; Simon, Georges; and Charton, Alain, 4,708,049, Cl. 89-11.000.
    - Espagnacq, Andre; and Sauvestre, Gerard D., 4,697,521, Cl. 102-334.000.
    - Jaffre, Robert; and Ropars, Yvon, 4,714,041, Cl. 114-67.00A.
    - Lavergnat, Jacques; and Dechambre, Monique, 4,670,712, Cl. 324-78.00R.
    - Marcon, Joel M.; Durant, Jacques A.; and Simon, Georges H. 4,704,945, Cl. 89-185.000.
    - Vega, Jean F.; and Morand, Philippe C., 4,698,108, Cl. 149-21.000
- Etat Francais represente par le Delegue General pour l'Armement *See—*
    - Dieulesaint, Eugene J.; and Royer, Daniel R., 4,706,046, Cl. 331-155.000.
    - Pascal, Jean-Pierre; Giovachini, Jean-Luc; and Croizier, Jacques 4,677,354, Cl. 318-153.000.
    - Wallow, Peter; Gersbach, Klaus; Simon, Walter; Bisping, Bernhard; Montier, Patrick; Moreau, Pierre A.; and Sauvestre, Jean-Claude, 4,702,172, Cl. 102-521.000.
- Etat Francais represente par le Ministre des PTT (Centre National d'Etudes des Telecommunications): *See—*
    - Aubin, Sylvain, 4,658,427, Cl. 381-124.000.
    - Haond, Michel; Bensahel, Daniel; and Dutartre, Didier, 4,678,538 Cl. 156-643.000.
    - Le Dain, Rene ; and Havot, Henri, 4,677,399, Cl. 333-116.000.
- Etat Francais represente par le Secretaire d'Etat aux Postes et Telecommunications (Centre National d'Etudes des Telecommunications) *See—*
    - Carlach, Jean-Claude, 4,696,020, Cl. 377-48.000.
- Etat Francais represente par le secretaire d'Etat Aux Postes et Telecommunications et a la Telediffusion (Centre National d'Etudes des Telecommunications): *See—*
    - Alard, Michel, 4,707,730, Cl. 358-13.000.
- Etcheparre, Bernard: *See—*
    - Etcheparre, Jean; and Etcheparre, Bernard, 4,708,331, Cl. 270-31.000.
- Etcheparre, Jean; and Etcheparre, Bernard, to Societe Anonyme: Letra Systemes. Device for layer-stacking web-like materials. 4,708,331, 11-24-87, Cl. 270-31.000.
- ETD Technology Inc.: *See—*
    - Garlough, Greg D.; and Heikkila, Kurt E., 4,702,793, Cl. 156-629.000.
    - Heikkila, Kurt E.; Williams, Rodney K.; Bohnen, Bruce A.; and Pylkki, Russell J., 4,667,049, Cl. 558-236.000.
    - Heikkila, Kurt E.; Williams, Rodney K.; and Pylkki, Russell J. 4,694,682, Cl. 73-61.10C.
- Etela Hameen Keuhkovammyhdistys R.Y.: *See—*
    - Hakkinen, Taisto, 4,638,812, Cl. 128-726.000.
- Eternit-Werke Ludwig Hatschek Aktiengesellschaft: *See—*
    - Miko, Hans-Jurgen, 4,662,141, Cl. 52-553.000.
- Etheridge, Reggie H., to Seaboard Wellhead, Inc. Piloted wellhead flow control valve. 4,662,603, 5-5-87, Cl. 251-63.500.

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- Beroff, Howard; and Duncan, Robert B., 4,671,281, Cl. 128-346.000.
- Bezwada, Rao S.; Shalaby, Shalaby W.; Newman, Hugh, Jr.; and Kafrawy, Adel, 4,643,191, Cl. 128-335.500.
- Bezwada, Rao S.; Shalaby, Shalaby W.; and Newman, Hugh D., Jr., 4,653,497, Cl. 128-335.500.
- Clanton, Marlene K.; Kapec, Jeffrey; and Tanaka, Kanuza, 4,665,917, Cl. 128-334.00R.
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- Dorband, Glen C.; Liland, Alfred; Menezes, Edgar; Steinheuser, Peter; Popadiuk, Nicholas M.; and Failla, Stephen J., 4,671,280, Cl. 128-334.00C.
- Failla, Stephen J., 4,693,248, Cl. 128-334.00C.
- Fisher, Anthony C., 4,657,793, Cl. 428-36.000.
- Florez, Hugo R.; and Tannhauser, Robert J., 4,655,222, Cl. 128-334.00R.
- Jamiolkowski, Dennis D.; and Shalaby, Shalaby W., 4,700,704, Cl. 128-335.500.
- Jewusiak, Stephen J., 4,638,804, Cl. 128-325.000.
- Koelmel, Donald F.; Jamiolkowski, Dennis D.; Shalaby, Shalaby W.; and Bezwada, Rao S., 4,649,921, Cl. 128-335.500.
- Kronenthal, Richard L.; Mattei, Frank V.; and Levy, Alan, 4,650,665, Cl. 424-435.000.
- McGregor, Walter; and Bendel, Lee, 4,660,559, Cl. 128-339.000.
- Shalaby, Shalaby W.; and Jamiolkowski, Dennis D., 4,689,424, Cl. 560-061.000.
- Smith, Carl R., 4,646,741, Cl. 128-334.00R.

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Ethridge, Charles O.; and Pedersen, Kristen I., to Sofec, Inc. High pressure product swivel. 4,647,077, 3-3-87, Cl. 285-98.000.

Ethridge, Edwin C.: *See—*
- Naumann, Robert J.; and Ethridge, Edwin C., 4,654,065, Cl. 65-2.000.

Ethridge, Frederick A.: *See—*
- McAliley, J. Eugene; Daumit, Gene P.; Ethridge, Frederick A.; and Crozier, James R., Jr., 4,714,642, Cl. 428-113.000.

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- Allcock, Harry R.; Stinnett, S. James; Tedder, Joseph B., Jr.; and Adams, J. Robert, Jr., 4,656,017, Cl. 423-300.000.
- Bark, Wendell G.; and Parks, John C., 4,659,021, Cl. 241-18.000.
- Belk, Thomas J., 4,691,866, Cl. 241-5.000.
- Boldish, Steven I., 4,635,681, Cl. 137-625.500.
- Brandt, Vernon O., 4,699,993, Cl. 558-423.000.
- Burton, Lester P. J., 4,659,863, Cl. 560-75.000.
- Chang, Suae-Chen; Tedder, Joseph B., Jr.; and Adams, J. Robert, Jr., 4,656,246, Cl. 528-499.000.
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- Davidson, Robert I., 4,670,579, Cl. 560-83.000.
- Davis, Robert L., 4,670,598, Cl. 564-440.000.
- Diefenbach, Steven P., 4,698,451, Cl. 585-534.000.
- Diefenbach, Steven P., 4,704,377, Cl. 502-167.000.
- Eisenbraun, Allan A., 4,691,057, Cl. 564-223.000.
- Francis, Michael A., 4,674,999, Cl. 493-356.000.
- Goins, Dixie E.; Holmes, Silas W.; and Burt, Edward A., 4,714,691 Cl. 502-152.000.
- Jackisch, Philip F., 4,686,311, Cl. 570-193.000.
- Kirsch, Warren B., 4,710,306, Cl. 252-8.551.
- Kolich, Charles H.; and Klobucar, W. Dirk, 4,698,439, Cl. 558-80.000.
- Lilje, Kenneth C., 4,663,452, Cl. 540-490.000.
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- Malcolm, Arcelio J.; Everly, Charles R.; and Nelson, Gunner E., 4,670,574, Cl. 556-478.000.
- Marlett, Everett M., 4,665,207, Cl. 556-176.000.
- McKinnie, Bonnie G.; and Mitchell, Olan W., 4,701,568, Cl. 568-726.000.
- Nelson, Gunner E., 4,683,321, Cl. 556-478.000.
- Nelson, Gunner E., 4,711,965, Cl. 556-478.000.
- Nelson, Gunner E., 4,711,966, Cl. 556-478.000.
- Okamoto, Ted T., 4,710,273, Cl. 203-29.000.
- Pettigrew, F. Alexander, 4,710,549, Cl. 525-538.000.
- Raley, Garland E.; and Spear, Dean M., 4,636,161, Cl. 425-194.000.
- Raley, Garland E.; and Spear, Dean M., 4,644,623, Cl. 29-148.40D.
- Ranken, Paul F.; and Ramachandran, Venkataraman, 4,649,202, Cl. 546-348.000.
- Ranken, Paul F.; and Davis, Robert L., 4,670,597, Cl. 564-440.000.
- Roark, David N.; Nugent, Adam, Jr.; and Bandlish, Baldev K., 4,657,948, Cl. 523-130.000.
- Roark, David N., 4,661,263, Cl. 210-735.000.
- Roark, David N.; Nugent, Adam, Jr.; and Bandlish, Baldev K., 4,698,380, Cl. 524-2.000.
- Roark, David N.; Nugent, Adam, Jr.; and Bandlish, Baldev K., 4,706,755, Cl. 166-295.000.
- Scymanski, Gerald L.; Mossaad, Amgad S.; and Hussain, Saadat, 4,716,251, Cl. 568-645.000.
- Shepherd, Lawrence H., Jr.; DeWitt, William J.; and Kuehnhanss, Gerhard O., 4,643,253, Cl. 166-274.000.
- Shin, Kju H., 4,636,574, Cl. 558-18.000.
- Shin, Kju H., 4,692,555, Cl. 568-722.000.
- Smith, Kim R.; Johannessen, Raymond O.; and Borland, James E., 4,659,565, Cl. 424-70.000.
- Stahly, Barbara C., 4,675,448, Cl. 568-315.000.
- Stahly, G. Patrick; and Stahly, Barbara C., 4,710,581, Cl. 560-20.000.
- Sulzer, Gerald M.; Tedder, Joseph B., Jr.; Adams, J. Robert, Jr.; and Juneau, Matthew K., 4,656,018, Cl. 423-300.000.
- Tedder, Joseph B., Jr.; and Adams, J. Robert, Jr., 4,663,138, Cl. 423-300.000.
- Walker, Howard W., 4,670,621, Cl. 585-656.000.
- Wright, William E.; and Zaweski, Edward F., 4,645,538, Cl. 106-273.00N.
- Zaweski, Edward F.; and Niebylski, Leonard M., 4,652,272, Cl. 44-57.000.

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- Lam, William Y., 4,639,324, Cl. 252-48.600.

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- Habarou, Georges; Etienne, Jacques; and Clebant, Jean-Claude, 4,669,954, Cl. 415-174.000.

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- Van Herck, Andre J. B. M.; and Etman, Johannes G. W., 4,651,056, Cl. 313-623.000.

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- Inoue, Fumio; Eto, Masahiro; Shimaoka, Shoei; and Sakai, Noboru, 4,641,195, Cl. 358-242.000.

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- Takizawa, Shozo; Kobayashi, Kazuyoshi; Fukuyama, Kazuo; Tani, Masanori; Yamamoto, Shoji; Yuasa, Hiroo; Nishimori, Masayoshi; Yoshida, Hiroaki; Eto, Shinichi; Hirao, Eiji; and Goto, Masaki, 4,709,935, Cl. 280-91.000.

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- Doi, Nobukazu; Izumita, Morishi; Mita, Seiichi; Eto, Yoshizumi; and Rokuda, Morito, 4,653,052, Cl. 371-39.000.
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- Hori, Ryoichi; Itoh, Kiyoo; and Etoh, Jun, 4,716,313, Cl. 307-475.000.
- Koda, Kazuo; and Etoh, Jun, 4,635,146, Cl. 360-85.000.

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Etoh, Yukihiro: *See—*
Shioyama, Giichi; Sugihara, Kunihiko; Etoh, Yukihiro; Tanaka, Toshiaki; and Kawamura, Yoshihisa, 4,662,330, Cl. 123-269.000.

Etona Company, Limited: *See—*
Ebihara, Yoshiyuki, 4,687,098, Cl. 206-340.000.
Ebihara, Yoshiyuki, 4,706,865, Cl. 227-110.000.
Ebihara, Yoshiyuki, 4,706,866, Cl. 227-120.000.

Etou, Hironori: *See—*
Nagai, Makoto; Horiuchi, Isamu; Hanada, Masamichi; Kuroda, Sigeaki; Hayashi, Masakatsu; Ohishi, Yasuro; Mori, Yutaka; Maeda, Eiji; Kasukabe, Kimito; Tsujita, Yuji; Etou, Hironori; Kikuchi, Katsuaki; and Itagaki, Masato, 4,647,271, Cl. 416-186.00R.
Oguni, Kensaku; Ishibane, Kyuhei; Kuroda, Shigeaki; Yasuda, Hiromu; Sano, Takashi; and Etou, Hironori, 4,706,469, Cl. 62-222.000.

Etou, Tomohiro: *See—*
Harada, Masasuke; Tsukamoto, Kouji; and Etou, Tomohiro, 4,661,547, Cl. 524-156.000.

Ets. A. Bourbon et Fils: *See—*
Bourbon, Jean, 4,666,036, Cl. 206-45.230.
Bourbon, Jean, 4,708,239, Cl. 206-45.130.

Ets Alfred Herlicq & Fils: *See—*
Benedet, Rene , 4,699,245, Cl. 182-3.000.

Ets. Bonnet: *See—*
Dufoug, Gilbert E., 4,683,381, Cl. 307-125.000.

ETS Energy Technology Systems Inc.: *See—*
Sari, Eric T., 4,643,129, Cl. 118-641.000.
Sari, Eric T., 4,672,914, Cl. 118-641.000.

Ets. Huret et ses Fils: *See—*
Leiter, Berndt, 4,676,118, Cl. 74-475.000.

Ets, Inc.: *See—*
Furlong, Dale A., 4,663,136, Cl. 423-239.000.

Etschenberg, Eugen: *See—*
Boltze, Karl-Heinz; Etschenberg, Eugen; Traber, Jorg; and Busgen, Herbert, 4,647,560, Cl. 514-220.000.
Welter, Andre ; Leyck, Sigurd; and Etschenberg, Eugen, 4,711,961, Cl. 548-121.000.

Ettel, Godwin, to Werkzeugmaschinenfabrik Oerlikon-Buhrle AG. Method for calibrating a muzzle velocity measuring device. 4,672,316, 6-9-87, Cl. 324-202.000.

Ettel, Godwin; Maeder, Heinz; and Ramseyer, Robert, to Werkzeugmaschinenfabrik Oerlikon-Buhrle AG. Apparatus for measuring the muzzle velocity of a projectile fired from a weapon. 4,677,376, 6-30-87, Cl. 324-179.000.

Ettelman, David J.; and Floresta, John G., to Kollmorgen Technologies Corporation. Stepping motor harmonic suppression. 4,703,243, 10-27-87, Cl. 318-696.000.

Ettema, Ernst; and de Vries, Jan, to Wavin B.V.; and Somevena B.V., a part interest. Trellis stake and wire support to be used in connection with such a trellis stake. 4,642,940, 2-17-87, Cl. 47-44.000.

Ettenberg, Michael: *See—*
Dinkel, Nancy A.; Goldstein, Bernard; and Ettenberg, Michael, 4,691,320, Cl. 372-45.000.

Ettenhofer, Michael E.: *See—*
Armstrong, John M.; and Ettenhofer, Michael E., 4,660,423, Cl. 73-864.520.

Ettingshausen, Othmar V.: *See—*
Portz, Heinz; and Ettingshausen, Othmar V., 4,680,064, Cl. 148-617.000.

Ettischer, Helmut; Ebner, Arno; Munz, Rolf; and Pollak, Raimund, to Eastman Kodak Company. Copying machine. 4,696,615, 9-29-87, Cl. 414-114.000.

Ettischer, Helmut; Bethmann, Heinz-G.; Munz, Rolf; Radtke, Manfred; and Uffinger, Friedrich, to Eastman Kodak Company. Sheet feeder. 4,699,371, 10-13-87, Cl. 271-99.000.

Etude et Development en Metallurgie: *See—*
Merrien, Pierre L.; and Merrien, Pierre A., 4,712,601, Cl. 164-150.000.
Merrien, Pierre L.; and Merrien, Pierre A., 4,715,427, Cl. 164-456.000.

Etudes et Commercialisation d'Appareils Nouveaux Speciaus, ECANS: *See—*
Pointout, Philippe; and Pointout, Jacques, 4,644,179, Cl. 307-10.0BP.

Etudes Techniques et Representations Industrielles E.T.R.I.: *See—*
Aboukrat, Simon; Catoir, Lucien; Guatelli, Jean-Luc; and Sobiepanek, Janusz, 4,703,212, Cl. 310-218.000.
Sobiepanek, Janusz; and Aboukrat, Simon, 4,716,486, Cl. 361-24.000.

Etutsche ITT Industries GmbH: *See—*
Flamm, Peter M., 4,667,223, Cl. 358-28.000.

Etzbach, Karl-Heinz; and Neumann, Peter, to BASF Aktiengesellschaft. Azo dyes containing a triazolyl group for use in liquid crystalline materials. 4,667,019, 5-19-87, Cl. 534-577.000.

Etzbach, Karl-Heinz; and Vamvakaris, Christos, to BASF Aktiengesellschaft. Aromatic disazo dyes and liquid-crystalline materials containing these dyes. 4,667,020, 5-19-87, Cl. 534-577.000.

Etzbach, Karl-Heinz, to BASF Aktiengesellschaft. Bisazo dyes a their use in liquid crystalline materials. 4,681,699, 7-21-87, 252-299.100.

Etzbach, Karl-Heinz; Neumann, Peter; Dust, Matthias; Ringsd Helmut; Schmidt, Hans-Werner; Baur, Guenter; Windscheid, F drich; and Kiefer, Rudolf, to BASF Aktiengesellschaft. Opti recording medium. 4,702,945, 10-27-87, Cl. 428-1.000.

Etzel, Horst: *See—*
Wiesner, Franz; and Etzel, Horst, 4,715,636, Cl. 294-86.400.

Etzel, Stephen J., to Rogers Corporation. Solderless connection appa tus. 4,655,524, 4-7-87, Cl. 339-59.00M.

Etzel, Stephen J.; and Gottlieb, Michael M., to Rogers Corporati Carrier assembly for mounting a rolled coplanar delay line. 4,675,6 6-23-87, Cl. 333-161.000.

Etzkorn, Heinz-Werner: *See—*
Heide, Helmut; Etzkorn, Heinz-Werner; Poeschel, Eva; and Ste inger, Helmut, 4,702,930, Cl. 427-2.000.

Etzold, Frank: *See—*
Gaffal, Karl; and Etzold, Frank, 4,643,593, Cl. 384-371.000.

Eubanks, Furney M. Elevatable work station. 4,650,035, 3-17-87, 182-101.000.

Eubanks, Mack W. Wheelbarrow enlargement insert. 4,645,2 2-24-87, Cl. 280-47.310.

Eucatex S.A. Industria e Comercio of Sao Paulo: *See—*
Roberts, James R., 4,692,211, Cl. 162-147.000.

Eudy, Nancy H.: *See—*
Tomcufcik, Andrew S.; Marsico, Joseph W.; Eudy, Nancy H.; Newman, Howard, 4,689,324, Cl. 514-89.000.

Eue, Ludwig: *See—*
Forster, Heinz; Hofer, Wolfgang; Mues, Volker; Eue, Ludwig; Schmidt, Robert R., 4,645,525, Cl. 71-88.000.
Forster, Heinz; Klauke, Erich; Priesnitz, Uwe; Riebel, Ha Jochem; Eue, Ludwig; and Schmidt, Robert R., 4,657,577, 71-86.000.
Forster, Heinz; Diehr, Hans-Joachim; Maurer, Fritz; Kla Erich; Eue, Ludwig; Santel, Hans-Joachim; Schmidt, Robert Reinecke, Paul; and Hanssler, Gerd, 4,708,731, Cl. 71-90.000
Knops, Hans-Joachim; Babczinski, Peter; Eue, Ludwig; Sa Hans-Joachim; and Schmidt, Robert R., 4,670,044, Cl. 71-92.
Metzger, Carl; Eue, Ludwig; and Hack, Helmuth, 4,639,526, 548-140.000.
Moriya, Koichi; Priesnitz, Uwe; Riebel, Hans-Jochem; Eue, L wig; and Schmidt, Robert R., 4,639,537, Cl. 558-48.000.
Pfister, Theodor; Forster, Heinz; Eue, Ludwig; Schmidt, Ro R.; and Santel, Hans-Joachim, 4,670,040, Cl. 71-86.000.
Schwamborn, Michael; Kuhle, Engelbert; Klauke, Erich; Ludwig; Schmidt, Robert R.; Santel, Hans-Joachim; Hanssler, Gerd, 4,640,923, Cl. 514-272.000.
Stetter, Jorg; Schmidt, Robert R.; Santel, Hans-Joachim; Hans Gerd; and Eue, Ludwig, 4,659,366, Cl. 71-92.000.
Wroblowsky, Heinz-Jurgen; Stetter, Jorg; Eue, Ludwig; Schm Robert R.; and Santel, Hans-Joachim, 4,636,245, Cl. 71-90.0

Eugene Doll & Novelty Co., Inc.: *See—*
Pietrafesa, Michael, 4,664,396, Cl. 280-30.000.

Eugene Tech International, Inc.: *See—*
Prince, Alfred M.; and Kim, Kwang S., 4,695,454, Cl. 424-89.

Eugene Water & Electric Board: *See—*
Wade, Rodney L., 4,676,811, Cl. 55-223.000.

Eugui, Elsie M.: *See—*
Nelson, Peter H.; Allison, Anthony C.; and Eugui, Elsie 4,686,234, Cl. 514-469.000.

Eulenberg, Hannspeter, to Kernforschungsanlage Julich GmbH. effect field sensor circuit with temperature compensation using amplifier. 4,646,014, 2-24-87, Cl. 324-251.000.

Euler, Helmut: *See—*
Hofgen, Gunter; and Euler, Helmut, 4,677,441, Cl. 342-174.00

Euler, Horst; Meyer, Hans-Joachim; and Pleschiutschnigg, Fritz-P to Mannesmann AG. Mold for continuous casting of rounds or bi 4,658,884, 4-21-87, Cl. 164-443.000.

Eumann, Hanns-Heinz. Ion exchange apparatus. 4,699,714, 10-13-8 210-140.000.

Eumuco Aktiengesellschaft fur Maschinenbau: *See—*
Brignoli, Silvio, 4,671,095, Cl. 72-403.000.

Eumurian, Charles: *See—*
Claeys, Richard J.; Denny, Ronald R.; Vaughan, Joseph D. Eumurian, Charles, 4,708,660, Cl. 439-65.000.

Eumurian, Gregoire; and Courty, Albert, to Thomson-CSF. O transmission channel with electrical connectors. 4,691,386, 9-1-8 455-607.000.

Eur-Control Kalle AB: *See—*
Lundberg, Peter, 4,677,846, Cl. 73-63.000.
Skallen, Bengt; Ljungkvist, Kjell; and Gren, Urban, 4,635,47 73-63.000.

Euroceltique, S.A.: *See—*
Hofer, Peter, 4,710,503, Cl. 514-263.000.
Holtshousen, Peter D., 4,671,957, Cl. 424-80.000.
Leslie, Stewart T.; Rhodes, Alan; Boroda, Cyril; and Ha Alfred, 4,654,209, Cl. 424-80.000.
Shetty, Bola V., 4,668,510, Cl. 424-78.000.

Eurofours: *See—*
Lancelot, Pierre, 4,638,788, Cl. 126-198.000.

European Atomic Energy Community (Euratom): *See—*
Bassani, Carlo; and Busse, Claus A. O., 4,674,562, Cl. 165-96
Giuffre, Luigi; Modica, Giovanni; Maffi, Silvia; Tempesti, and Pierini, Giancarlo, 4,663,012, Cl. 204-296.000.

van Velzen, Daniel; and Langenkamp, Heinrich W., 4,668,490, Cl. 423-242.000.

European Electronic Systems Limited: *See—*
  Loose, Peter W., 4,670,659, Cl. 250-560.000.

Europhane: *See—*
  Tarroux, Pierre, 4,665,346, Cl. 315-289.000.

Eurosteel S.A.: *See—*
  Destree, Xavier P.; and Lazzari, Angelo A., 4,640,648, Cl. 405-229.000.

Eurotechnique: *See—*
  Ferrant, Richard, 4,707,810, Cl. 365-200.000.

Eurotherm Corporation: *See—*
  Pettit, John W.; and Carr, Douglas M., 4,669,040, Cl. 364-162.000.

Eusebi, Elio: *See—*
  Abu-Isa, Ismat A.; Eusebi, Elio; and Jaynes, Craig B., 4,661,546, Cl. 524-153.000.

Eusek, John F.; and Bush, William H., to Mason Clinic, The. Method and apparatus for ESWL in-bath filming. 4,665,543, 5-12-87, Cl. 378-181.000.

Euson, Thomas G., to Systecon Inc. Light path heat detector. 4,650,003, 3-17-87, Cl. 169-60.000.

Eustace, Daniel J.; Siano, Donald B.; Drake, Evelyn N.; and Calcavecchio, Peter, to Exxon Research and Engineering Company. Shear thickening compositions containing polyacrylic acid and polyacrylamide, their preparation and use. 4,683,953, 8-4-87, Cl. 166-294.000.

Eustace, Robert H., to United States of America, Air Force. Ductless acoustical noise attenuator. 4,660,676, 4-28-87, Cl. 181-224.000.

Eustache, Jacques: *See—*
  Shroot, Braham; Eustache, Jacques; and Bouclier, Martine, 4,666,941, Cl. 514-569.000.

Eutec Ltd.: *See—*
  von Dulong, F. Olaf; and Herr, Richard W., 4,655,426, Cl. 248-405.000.

Eutectic Corporation: *See—*
  Gamberg, Edward R., 4,689,461, Cl. 219-69.00R.
  Gartland, Thomas J.; and Papanide, Adrian T., 4,673,792, Cl. 219-74.000.
  Gartland, Thomas J.; and Papanide, Adrian I., 4,675,493, Cl. 219-74.000.
  Gartland, Thomas J., 4,695,702, Cl. 219-137.630.

Euzen, Jean P.: *See—*
  Quang, Dang V.; Pradel, Claude; Euzen, Jean P.; and Le Page, Jean-Francois, 4,687,656, Cl. 423-361.000.

Euzen, Jean-Paul: *See—*
  Dall, Didier; Euzen, Jean-Paul; Patoux, Remy; and Renard, Pierre, 4,659,455, Cl. 208-152.000.

Eva Staude, Firma: *See—*
  Staude, Eckhard; and Kaus, Juergen, 4,636,061, Cl. 355-24.000.

Evac Tool & Engineering Inc.: *See—*
  Niehaus, Gerald; and Bivens, Ernest, 4,702,660, Cl. 414-95.000.

Evangelista, Richard A.: *See—*
  Eberhardt, H. Alfred; Broitman, Kalman; Evangelista, Richard A.; Teske, Richard E.; and Sulmone, Michael, 4,691,667, Cl. 123-633.000.

Evani, Syamalarao: *See—*
  Snyder, Kenneth L., Jr.; and Evani, Syamalarao, 4,702,854, Cl. 252-75.000.

Evans, Alfred J.; Misner, Raymond H.; Gallion, James A.; and Harrod, Melvin L., to Tipper Tie, Inc. Clipping apparatus. 4,675,945, 6-30-87, Cl. 17-33.000.

Evans, Alfred J.; and Sarginger, Francis E., to Tipper Tie, Inc. Cut-off mechanism for clip attachment apparatus. 4,683,700, 8-4-87, Cl. 53-138.00R.

Evans, Alfred J.: *See—*
  Tomczak, Roman M.; Evans, Alfred J.; Chen, Grant K. R.; and Brinson, Edward P., 4,683,615, Cl. 17-1.00R.

Evans, April J.; and Hensley, Albert L., to Amoco Corporation. Process for demetallation and desulfurization of heavy hydrocarbons. 4,657,664, 4-14-87, Cl. 208-211.000.

Evans, April J.: *See—*
  Beaton, William I.; Hensley, Albert L.; and Evans, April J., 4,657,665, Cl. 208-216.00R.
  Beaton, William I.; Hensley, Albert L.; and Evans, April J., 4,707,466, Cl. 502-313.000.

Evans, Archibald D.: *See—*
  Franklin, Duane R.; Evans, Archibald D.; and Hansen, Walter J., 4,712,653, Cl. 187-18.000.

Evans, Ben E., to Merck & Co., Inc. Peptide renin inhibitors. 4,665,055, 5-12-87, Cl. 514-18.000.

Evans, Ben E.: *See—*
  Bock, Mark G.; DiPardo, Robert M.; Boger, Joshua S.; Evans, Ben E.; and Freidinger, Roger, 4,636,491, Cl. 514-16.000.
  Bock, Mark G.; Evans, Ben E.; and Freidinger, Roger M., 4,663,321, Cl. 514-220.000.
  Boger, Joshua S.; Veber, Daniel F.; and Evans, Ben E., 4,668,770, Cl. 530-331.000.
  Chang, Raymond S. L.; and Evans, Ben E., 4,684,646, Cl. 514-221.000.

Evans, Bradley J. Interchangeable eyeshield. 4,670,915, 6-9-87, Cl. 2-450.000.

Evans, Brett A.: *See—*
  Moore, Jeffrey E.; Evans, Brett A.; and Hansen, Richard, 4,715,979, Cl. 252-91.000.

Evans, Brian: *See—*
  Peel, Christopher J.; Evans, Brian; Harris, Samuel J.; Noble, Brian; and Dinsdale, Keith, 4,636,357, Cl. 420-532.000.

Evans, Brian K.: *See—*
  Rhodes, John; and Evans, Brian K., 4,687,667, Cl. 424-195.100.

Evans, Bruce M., to Minnesota Mining and Manufacturing Company. Apparatus for electronic scanning and microfilming of documents. 4,711,566, 12-8-87, Cl. 355-41.000.

Evans, Charles G. T.: *See—*
  Ellwood, Derek C.; Evans, Charles G. T.; and Yeo, Richard G., 4,696,900, Cl. 435-104.000.

Evans, Claude R.: *See—*
  Whittlestone, Walter G.; and Evans, Claude R., 4,671,209, Cl. 49-14.550.

Evans, Cliff; Obligado, Alvaro; and Zezza, Louis J., to Automation Industries, Inc. Method of installing a nozzle dam assembly. 4,656,714, 4-14-87, Cl. 29-157.00C.

Evans, Cliff; Obligado, Alvaro; and Zezza, Louis J., to Nuclear Energy Systems, Inc. Nozzle dam assembly. 4,667,701, 5-26-87, Cl. 138-93.000.

Evans, Colin M.: *See—*
  Chin, Chang-Hwa; Edmonds, Anthony C. F.; and Evans, Colin M., 4,713,232, Cl. 423-390.000.

Evans, Daniel S.: *See—*
  Davis, Jeffrey L.; Evans, Daniel S.; and Hall, Lawrence P., 4,693,098, Cl. 70-233.000.

Evans, David. Surgical needle. 4,645,491, 2-24-87, Cl. 604-158.000.

Evans, David A., to DRG (UK) Limited. Stacker-reclaimer including counterbalance weight. 4,664,271, 5-12-87, Cl. 212-196.000.

Evans, David A.; and Sjogren, Eric B., to President and Fellows of Harvard College. Process and intermediates for β-lactam antibiotics. 4,665,171, 5-12-87, Cl. 540-364.000.

Evans, David A.; and Dowden, Paul J., to DRG (UK) Limited. Barge tipplers or dumpers. 4,671,725, 6-9-87, Cl. 414-137.000.

Evans, David A.; and Sjogren, Eric B., to Harvard University. 7-acylamino-(or 7-amino)-3-trifluoromethylsulfonyloxy-1-carba(1-dethia)-3-cephem-4-carboxylic acids and esters thereof. 4,673,737, 6-16-87, Cl. 540-205.000.

Evans, David A.: *See—*
  Carey, Paul D.; Cutts, Stanley J.; Heath, John S.; White, David E.; and Evans, David A., 4,660,117, Cl. 360-133.000.
  Sondahl, Maro R.; and Evans, David A., 4,659,668, Cl. 435-240.000.

Evans, David F. J.: *See—*
  Duley, Richard K.; and Evans, David F. J., 4,668,951, Cl. 340-941.000.

Evans, David M.: *See—*
  Cederwall, Philip J.; Evans, David M.; Glezer, Boris; and Hensley, John J., 4,668,162, Cl. 415-115.000.

Evans, David M. A.: *See—*
  Almond, Jeffrey W.; Minor, Phillip D.; Evans, David M. A.; and Schild, Geoffrey C., 4,694,071, Cl. 530-329.000.

Evans, David S.; Smith, Mark G.; Middleton, Francisco A.; and Hargrave, Franklin, to ITT Corporation. System for providing remote services. 4,656,651, 4-7-87, Cl. 379-1.000.

Evans, Donald C.: *See—*
  Ramsey, Everett M.; Gray, Bruce A.; and Evans, Donald C., 4,715,810, Cl. 432-8.000.

Evans, Donald R., to Kennametal, Inc. Rolling mill roll assembly. 4,660,268, 4-28-87, Cl. 29-523.000.

Evans, Donald R., to Kennametal Inc. Roll for hot forming steel rod. 4,698,884, 10-13-87, Cl. 29-132.000.

Evans, Doyle R.: *See—*
  Chrobak, Michael J.; and Evans, Doyle R., 4,635,354, Cl. 29-622.000.

Evans, Edward K.: *See—*
  Arlington, David L.; Chen, Chin-Long; and Evans, Edward K., 4,661,955, Cl. 371-38.000.

Evans, Edward R.: *See—*
  Kallin, Fredrik L. N.; and Evans, Edward R., 4,681,468, Cl. 400-120.000.
  Osmera, Miroslav S.; Bella, Anton; Kallin, Fredrik L. N.; and Evans, Edward R., 4,648,591, Cl. 271-305.000.

Evans, Edwin R.; and Torkelson, Arnold, to General Electric Company. Method for preventing premature curing of silicone compositions and compositions made thereby. 4,681,913, 7-21-87, Cl. 524-862.000.

Evans, Elaine L.; Graham, James E.; and Weissberg, Alan B., to PPG Industries, Inc. Cyanamide salts of non-lead metals as corrosion inhibitive pigments in mirror back coatings. 4,707,405, 11-17-87, Cl. 428-336.000.

Evans, Gary E., to Westinghouse Electric Corp. Orthogonal beam forming network. 4,638,317, 1-20-87, Cl. 342-373.000.

Evans, Gary K.: *See—*
  Evans, Willie V.; and Evans, Gary K., 4,697,465, Cl. 73-866.500.

Evans, George D., to Purex Corporation. Fitment adapter for use with container. 4,667,818, 5-26-87, Cl. 206-219.000.

Evans, George D.: *See—*
  Flynn, Brian P.; Winetzky, Deborah S.; and Evans, George D., 4,636,328, Cl. 252-90.000.

Evans, George D., II: *See—*
  Hardwick, Martha K.; Pike, Kelly A.; Evans, George D., II; Edwards, Ronald; and Norman, Jacob J., 4,648,868, Cl. 604-32.000.

Evans, Harold J., to Central Plastics Company. Plastic pipe scraper. 4,663,794, 5-12-87, Cl. 15-104.040.

Evans, Harold J.: *See—*

Inhofe, James A., Jr.; and Evans, Harold J., 4,708,527, Cl. 405-216.000.

Inhofe, James A., Jr.; and Evans, Harold J., 4,713,129, Cl. 156-71.000.

Evans, Harold R., to Tekron Licensing B.V. Exercise machine. 4,645,201, 2-24-87, Cl. 272-97.000.

Evans, James: *See—*

Catsimpoolas, Nicholas; McCluer, Robert; Sinn, Robert S.; and Evans, James, 4,710,490, Cl. 514-25.000.

Evans, James D.: *See—*

Nelson, Richard D.; and Evans, James D., 4,678,452, Cl. 464-38.000.

Evans, James M.: *See—*

Cardenas, Carlos G.; Evans, James M.; Stark, Charles J.; and Ehmann, William J., 4,670,504, Cl. 524-504.000.

DePasquale, Ralph J.; Evans, James M.; and Kremer, Paul W., 4,645,846, Cl. 556-419.000.

Evans, James W., to Detroit Edison Company. Static programmable powerline carrier channel test structure and method. 4,686,641, 8-11-87, Cl. 364-580.000.

Evans, Jerald R.: *See—*

Fetter, John L.; Evans, Jerald R.; and Ergene, Serdar, 4,679,041, Cl. 340-747.000.

Evans, John C., to Dow Chemical Company, The. Method for monitoring surface texture and quality for moving transparent film bodies. 4,715,717, 12-29-87, Cl. 356-429.000.

Evans, John C., to Dow Chemical Company, The. Method and apparatus for on-line monitoring of laminate bond strength. 4,715,718, 12-29-87, Cl. 356-446.000.

Evans, John F.: *See—*

Bamji, Pervez J. F.; Evans, John F.; and Fitzpatrick, Nigel P., 4,704,162, Cl. 75-10.140.

Evans, John M.; Buckingham, Robin E.; and Willcocks, Kenneth, to Beecham Group p.l.c. Chroman-3-ol compounds. 4,644,070, 2-17-87, Cl. 549-399.000.

Evans, John M.; Buckingham, Robin E.; and Willcocks, Kenneth, to Beecham Group p.l.c. Trans-3,4-dihydro-2,2-dimethyl-6-nitro-4-(2-oxo-pyrrolidinyl)2H-1-benzopyran-3-ol. 4,647,670, 3-3-87, Cl. 548-525.000.

Evans, John M., to Beecham Group p.l.c. Antihypertensive chroman derivatives. 4,677,116, 6-30-87, Cl. 514-456.000.

Evans, John M., to Beecham Group p.l.c. Chromanol derivatives. 4,687,779, 8-18-87, Cl. 514-456.000.

Evans, John M.; and Wise, Colin C., to Antec Systems Limited. Method and apparatus for measuring blood oxygen levels. 4,697,593, 10-6-87, Cl. 128-634.000.

Evans, John M.; Atkins, Philip B.; and Doogood, Peter N., to Commonwealth of Australia, The. Pressure sensing. 4,699,004, 10-13-87, Cl. 73-384.000.

Evans, Joseph T., Jr.; Munechika, Stacy M.; Norris, Michael C.; Hren, Alisa M.; Heck, Kevin M.; and Zulka, Suzanne M., to United States of America, Air Force. Digital phase meter apparatus. 4,654,586, 3-31-87, Cl. 324-83.00D.

Evans, Kerry G.: *See—*

Nuckolls, Joe A.; and Evans, Kerry G., 4,686,424, Cl. 315-86.000.

Evans, Mervyn, to National Research Development Corporation. Orthopaedic fracture fixation apparatus. 4,693,240, 9-15-87, Cl. 128-92.00Z.

Evans, Michael W.: *See—*

Linton, John D.; Evans, Michael W.; and Godley, Andrew R., 4,634,667, Cl. 435-101.000.

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- Eversole, Brad K.: *See—*
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Dawson, Thomas F.; and Ewing, Paul C., Jr., 4,648,211, Cl. 5 165.00R.

Dawson, Thomas F.; Ewing, Paul C., Jr.; Dafnoulelis, Christos V and Martin, Jacob H., 4,648,212, Cl. 51-165.00R.

Ewing, Ronald J.: *See—*

La Barge, Robert L.; and Ewing, Ronald J., 4,688,316, C 29-432.000.

EWS Water Treatment Inc.: *See—*

Fletcher, Brian, 4,643,831, Cl. 210-668.000.

Ex-Cell-O Corporation: *See—*

Belleville, Ernest L.; and Gaudreau, Laurent R., 4,683,098, C 264-302.000.

Bleecker, William H.; and Corley, William G., 4,655,795, C 51-309.000.

Bradley, Jerome R.; Halvorsen, Robert M.; and Long, Gregory F 4,649,950, Cl. 137-549.000.

Bradley, Jerome R.; and Long, Gregory F., 4,655,912, C 210-133.000.

Check, John M.; and Johnson, Myron C., 4,639,568, Cl. 2 69.00M.

Check, John M.; and Rupert, Gary F., 4,644,125, Cl. 219-69.00G

Dzewaltowski, Victor F.; Halvorsen, James; and Check, John M 4,703,142, Cl. 219-69.00M.

Farmer, Steven P., 4,653,235, Cl. 51-165.870.

Fitzpatrick, Paul, 4,680,894, Cl. 51-50.00R.

Fitzpatrick, Paul, 4,683,743, Cl. 72-88.000.

Gaudreau, Laurent R., 4,716,003, Cl. 264-302.000.

Gray, John D., 4,634,360, Cl. 425-130.000.

Gray, John D., 4,692,293, Cl. 264-245.000.

Hill, Gary R., 4,658,619, Cl. 72-88.000.

Hinman, Edmund R., 4,657,645, Cl. 204-129.100.

Hinman, Edmund R., 4,657,649, Cl. 204-224.00M.

Hinman, Edmund R., 4,663,011, Cl. 204-224.00M.

Hinman, Edmund R., 4,684,455, Cl. 204-212.000.

Hinman, Edmund R., 4,686,020, Cl. 204-129.100.

Hobbs, Robert N., 4,654,953, Cl. 29-568.000.

Johnson, D. Dale, 4,712,471, Cl. 92-24.000.

Johnson, Myron C.; and Fitts, Frederick L., 4,670,635, Cl. 2 69.00E.

Lisiecki, Robert E., 4,702,407, Cl. 206-624.000.

Manning, Steven F.; Perkins, Jimmie G.; and Heling, Dennis 4,633,763, Cl. 91-530.000.

McDonald, Kenneth P.; Rangwala, Badruddin K.; Owen, Barry and Rodocker, Frank A., 4,712,665, Cl. 198-346.200.

Millay, Lawrence I., 4,692,990, Cl. 29-568.000.

Millay, Lawrence I.; and Bourgoine, Edward, 4,715,147, 51-165.710.

Murphy, Stephan D.; and Derkacs, Thomas, 4,709,156, 250-560.000.

O'Rourke, Glenn R., 4,652,000, Cl. 277-73.000.

Powell, Thomas A.; Kolnes, Kenneth O.; Sprenger, Kenneth Casarotto, John D.; Whitney, Kenneth P.; and Hammer, Ge M., 4,654,957, Cl. 29-568.000.

Prendergast, William M.; and Margolien, Daniel J., 4,686,730, 15-93.00R.

Preston, Frank J., 4,714,575, Cl. 264-46.400.

Rangwala, Badrudden K.; Rodocker, Frank A.; Pawloski, C H.; and Joosten, Richard L., 4,683,701, Cl. 53-167.000.

Richardson, Robert G., 4,702,061, Cl. 53-381.00R.

Scrivo, Jerry V.; and Breuker, Gordon W., 4,695,433, 422-112.000.

Spisak, Anthony F., 4,641,744, Cl. 198-813.000.

Toelie, Alvin D., 4,640,308, Cl. 137-596.180.

Wersosky, John M., 4,664,864, Cl. 264-301.000.

Exac Corporation: *See—*

Dahlin, Erik B.; Kaiser, Sidney V.; Young, Alan M.; and Le Andrew K., 4,660,421, Cl. 73-861.380.

Dahlin, Erik B., 4,711,132, Cl. 73-861.380.

Exarque, Jean; and Camand, Michel, to Societe Anonyme Dite De for coding-decoding a binary digital signal bit stream fo "OQPSK" digital modulator-demodulator with four phase s 4,680,775, 7-14-87, Cl. 375-39.000.

Exclermatic Inc.: *See—*

Kraus, Charles E., 4,709,589, Cl. 74-206.000.

Excel Corporation: *See—*

Vessey, John R., 4,706,801, Cl. 198-781.000.

Excel Industries, Inc.: *See—*

Mullet, David L.; and Bontrager, Ivan W., 4,691,784, 172-15.000.

Wooten, Ronald E., 4,635,397, Cl. 49-394.000.
Excel-Mineral Company, Inc.: *See—*
de Buda, Francis. 4,659,664, Cl. 435-176.000.
de Buda, Francis, 4,666,688, Cl. 423-165.000.
Excelermatic Inc.: *See—*
Kraus, Charles E., 4,658,674, Cl. 74-798.000.
Kraus, Charles E., 4,660,995, Cl. 384-121.000.
Kraus, Charles E., 4,693,134, Cl. 74-690.000.
Kraus, Charles E., 4,694,704, Cl. 74-200.000.
Kraus, Charles E., 4,702,118, Cl. 74-200.000.
Excell Corporation: *See—*
Ezaki, Yasuo, 4,659,531, Cl. 264-515.000.
Shimizu, Shoji, 4,681,525, Cl. 425-527.000.
Excellente, Richard. Asymmetric stringed instrument. 4,635,522, 1-13-87, Cl. 84-291.000.
Excello Specialty Company, The: *See—*
Jones, Wallace R.; and Isaksen, Robert A., 4,696,848, Cl. 428-80.000.
Excelsior Fitness Equipment Co.: *See—*
Szymaki, Eugene J., 4,673,177, Cl. 272-73.000.
Exciter Battery & Electric Company, Inc.: *See—*
Henkel, John R., 4,670,700, Cl. 320-2.000.
Exel Microelectronics Inc.: *See—*
Doung, Cheen P., and Gupta, Anil, 4,667,312, Cl. 365-189.000.
Mukherjee, Satyen; and Chang, Thomas, 4,698,787, Cl. 365-185.000.
Exergen Corporation: *See—*
Pompei, Francesco; and Daya, Shiraz, 4,636,091, Cl. 374-124.000.
Exertier, Michel: *See—*
Dromard, Adrien; Exertier, Michel; Rollin, Claude; Tayot, Jean-Louis; and Tardy, Michel, 4,675,384, Cl. 530-364.000.
Exhelon GmbH: *See—*
Maier, Helmut; Neumann, Bruno; and Schaafhausen, Ludwig R., 4,690,582, Cl. 403-252.000.
Exide Corporation: *See—*
Chreitzberg, Augustus M., and Chiacchio, Frank J., 4,687,718, Cl. 429-190.000.
Exide Electronics Corporation: *See—*
Raddi, William J.; Johnson, Robert W., Jr.; Tracy, John G.; and Sonnenberg, Blazej W., 4,673,825, Cl. 307-66.000.
Exis-Iber, S.A.: *See—*
Arnau Manresa, Luis M., 4,643,102, Cl. 104-305.000.
Exit S.A.: *See—*
Lens, Marcel, 4,635,850, Cl. 239-119.000.
Exner, Franz: *See—*
Vatter, Waldemar; and Exner, Franz, 4,702,330, Cl. 180-6.200.
EXPERT Maschinenbau GmbH: *See—*
Moller, Reinfried, 4,669,948, Cl. 414-744.00R.
Exploaterings AB T.B.F.: *See—*
Porath, Jerker; and Lindahl, Mats, 4,677,027, Cl. 428-407.000.
Exploration Logging, Inc.: *See—*
Mumby, Edward S., 4,699,352, Cl. 251-30.030.
Umeda, Takato, 4,642,800, Cl. 367-85.000.
Explosive Technology, Inc.: *See—*
Burkdoll, Frank B.; and Hannagan, Harold W., 4,664,033, Cl. 102-275.200.
Burkdoll, Frank B.; and Hannagan, Harold W., 4,688,466, Cl. 89-1.140.
Express Communications, Inc.: *See—*
Schultz, Thomas G.; Gross, Andrew; Pappas, Barbara; Shifrin, George D.; and Mack, Lois, 4,713,780, Cl. 364-514.000.
Express Marine, Inc.: *See—*
Kaucic, Robert A.; and Walling, Richard C., 4,669,411, Cl. 114-230.000.
Express Test Corporation: *See—*
Kawahara, Masaru, 4,667,522, Cl. 73-865.600.
Exquisite Form Industries, Inc.: *See—*
Scullin, Mary E., 4,633,876, Cl. 128-460.000.
Extance, Philip; and Jones, Roger E., to STC plc. Optical fibre magnetic gradient detector. 4,665,363, 5-12-87, Cl. 324-244.000.
Extance, Philip; Jones, Roger E.; and Martin, Stewart O., to Standard Telephones and Cables Public Limited Company. Magnetic field sensor having a Hall effect device with overlapping flux concentrators. 4,692,703, 9-8-87, Cl. 324-251.000.
Extance, Philip; and Jones, Roger E., to STC, plc. Spherical shell fibre optic magnetic field sensors and magnetometers and magnetic gradient detectors incorporating them. 4,697,146, 9-29-87, Cl. 324-244.000.
Extance, Philip: *See—*
Pitt, Gilles D.; Extance, Philip; and Wilson, David, 4,656,750, Cl. 33-352.000.
Pitt, Gilles D.; Extance, Philip; Neat, Rosamund C.; and Jones, Roger E., 4,668,085, Cl. 356-32.000.
Pitt, Gilles D.; Extance, Philip; and Jones, Roger E., 4,696,543, Cl. 350-96.230.
Pitt, Gillies D.; Extance, Philip; and Jones, Roger E., 4,712,065, Cl. 324-244.000.
Extance, Phillip: *See—*
Pitt, Gilles D.; Scott, Brian J.; Verrills, Michael V.; Hancock, Nicholas K.; and Extance, Phillip, 4,672,216, Cl. 250-574.000.
Exthree Industrial Co., Ltd.: *See—*
Wang, Chieh-Shan, 4,655,444, Cl. 269-156.000.
Extramet Industrie S.A.: *See—*
Bienvenu, Gerard; and Jehan, Michel, 4,652,299, Cl. 75-58.000.
Extraversion, Inc.: *See—*
Ytter, Willy, 4,678,246, Cl. 312-114.000.
Extrema Systems International Corporation: *See—*
Visser, Arie, 4,700,360, Cl. 375-22.000.
Extrudaids Limited: *See—*
Marven, Robert, 4,663,099, Cl. 264-142.000.
Extrude Hone Corporation: *See—*
Rhoades, Lawrence J.; and Nokovich, Nicholas P., 4,656,788, Cl. 51-58.000.
Rhoades, Lawrence J.; Jenkins, William D.; and Pertle, David D., 4,681,600, Cl. 51-293.000.
Exum, Edward L.: *See—*
Blount, Emmitt; Exum, Edward L.; and Wooten, Murthis E., 4,706,648, Cl. 126-243.000.
Exxon Chemical Patents Inc.: *See—*
Agapiou, Agapios K.; Muhle, Michael E.; and Kurtzman, Myron B., 4,701,506, Cl. 526-128.000.
Ahner, Mary E., 4,683,268, Cl. 525-237.000.
Dickakian, Ghazi B., 4,671,103, Cl. 73-61.10C.
Evans, Morris L.; and Hentges, Steven G., 4,677,176, Cl. 526-290.000.
Evans, Morris L., 4,684,707, Cl. 526-290.000.
Ferrell, Thomas M., 4,670,131, Cl. 208-48.0AA.
Glivicky, Alexandr P.; and Norris, Donald J., 4,675,463, Cl. 585-514.000.
Haslegrave, John A.; and Sullivan, Daniel S., 4,673,436, Cl. 106-14.130.
Hodgson, William J., Jr.; and Middlesworth, Jeffrey A., 4,714,735, Cl. 524-514.000.
Hsu, Edward C.; Merchant, Philip, Jr.; Smith, Dean L., Jr.; Kelly, Kevin P.; and Lacy, Sylvia M., 4,692,237, Cl. 208-177.000.
Huff, Terrence; and Langer, Arthur W., Jr., 4,677,088, Cl. 502-121.000.
Kuntz, Irving, 4,711,866, Cl. 502-152.000.
Lacoste, Olivier H. V.; De Regel, Alain; Fujiwara, Hidenori; and Yap, Raymond C. C., 4,690,958, Cl. 523-172.000.
Langston, Mark C.; and Boutwell, David G., 4,643,119, Cl. 112-421.000.
McAlpin, James J.; and Chow, Wai Y., 4,710,540, Cl. 525-101.000.
McDougall, Lee A.; Newlove, John C.; and Haslegrave, John A., 4,670,166, Cl. 252-8.552.
Michaelson, Robert C., 4,691,073, Cl. 585-639.000.
Michaelson, Robert C.; and Plotkin, Jeffrey S., 4,714,788, Cl. 568-697.000.
Portnoy, Robert C., 4,680,128, Cl. 252-8.511.
Sedillo, Lawrence P.; Newlove, John C.; and Portnoy, Robert C., 4,659,750, Cl. 523-130.000.
Speca, Anthony N., 4,711,865, Cl. 502-116.000.
Storey, William R.; Wheat, William R.; Smith, Stuart B.; and Ajinkya, Milind B., 4,698,211, Cl. 422-135.000.
Tack, Robert D.; Pearce, Sarah L.; and Rossi, Albert, 4,713,088, Cl. 44-62.000.
Tegge, Bruce R.; Weary, Frank G.; and Sakaguchi, Yasuo, 4,713,413, Cl. 525-54.000.
Varma, Vijaya K.; Winans, Esther D.; O'Halloran, Rosemary; and Brewster, Phillip W., 4,693,838, Cl. 252-51.50R.
Welborn, Howard C., Jr.; and Tornqvist, Erik G. M., 4,665,208, Cl. 556-179.000.
Welborn, Howard C., Jr., 4,701,432, Cl. 502-113.000.
Young, David A., 4,642,388, Cl. 568-454.000.
Exxon Nuclear Company, Inc.: *See—*
Barkhurst, David J., 4,676,945, Cl. 376-261.000.
Osborne, Jon L., 4,692,303, Cl. 376-446.000.
Patterson, John F.; MacDuff, Robert B.; and Yates, Jack, 4,708,846, Cl. 376-444.000.
van Swam, Leo F.; and Ho, Quang D., 4,689,193, Cl. 376-251.000.
Exxon Printing Systems, Inc.: *See—*
Bupara, Sargit S., 4,675,694, Cl. 346-1.100.
DeYoung, Thomas W., 4,658,274, Cl. 346-140.00R.
Howkins, Stuart D., 4,646,106, Cl. 346-1.100.
Howkins, Stuart D., 4,697,193, Cl. 346-1.100.
Lin, An Chung R.; and Cooke, Theodore M., 4,659,383, Cl. 106-27.000.
Mikalsen, Arthur, 4,636,803, Cl. 346-1.100.
Mikalsen, Arthur, 4,641,154, Cl. 346-140.00R.
Exxon Production Research Co.: *See—*
Adorjan, Alexander S., 4,637,637, Cl. 285-47.000.
Avicola, Kenneth, 4,649,529, Cl. 367-149.000.
Binder, George G., Jr., 4,671,357, Cl. 166-291.000.
Bower, Frank M., 4,703,459, Cl. 367-25.000.
Bragg, James R., 4,676,315, Cl. 166-266.000.
Chen, Andrie C. T.; and Jahns, Hans O., 4,699,545, Cl. 405-217.000.
Chung, Jing-Yau, 4,682,308, Cl. 367-31.000.
Chung, Jing-Yau; Chen, Sen-Tsuen; Wainerdi, James C.; and Miller, Mark A., 4,685,091, Cl. 367-31.000.
Coleman, Richard K., 4,648,751, Cl. 405-209.000.
Cunningham, Allen B., 4,698,791, Cl. 367-25.000.
Danaczko, Mark A.; Finn, Lyle D.; Glasscock, M. Sidney; Piazza, Michael P.; Steele, Kenneth M.; and Weaver, Timothy O., 4,696,603, Cl. 405-227.000.
Davenport, George F., 4,696,601, Cl. 405-202.000.
Davis, Albert P., Jr.; Ramsey, Mark S.; and Stolle, Joseph W., 4,655,300, Cl. 175-39.000.
Dittert, Karen K., 4,715,021, Cl. 367-41.000.
Dolengowski, George A., 4,648,479, Cl. 181-120.000.
Dolengowski, George A.; and Young, D. Raymond, 4,658,387, Cl. 367-144.000.
Finn, Lyle D.; and Steele, Kenneth M., 4,696,604, Cl. 405-227.000.

Foroulis, Z. Andrew; and Tsao, Yuh H., 4,665,996, Cl. 175-61.000.
Gardner, Terry N.; Brekke, James N.; Krolikowski, Lawrence P.; and Dextraze, Raymond E., 4,657,116, Cl. 187-1.00R.
Gidley, John L., 4,715,443, Cl. 166-250.000.
Gonzalez, Manuel E., 4,656,944, Cl. 102-312.000.
Gonzalez, Manuel E., 4,676,309, Cl. 166-55.000.
Guile, Peter J. D., 4,702,636, Cl. 403-24.000.
Guy, Arthur L.; and Glasscock, Maynard S., 4,648,752, Cl. 405-217.000.
Johnson, Dale V.; and Childers, Thomas W., 4,651,818, Cl. 166-115.000.
Kirby, Robert A., 4,697,667, Cl. 181-113.000.
Lamb, Walter J.; and Kunze, Kenneth R., 4,648,456, Cl. 166-307.000.
Mifsud, Joseph F., 4,633,970, Cl. 181-120.000.
Moyer, Mark C.; Perry, William D.; Silvus, H. Stanley, Jr.; Gibson, William C.; and Kusenberger, Felix N., deceased, 4,675,604, Cl. 324-220.000.
Myers, Ronald D.; and Greebe, Frans, 4,676,318, Cl. 166-293.000.
Nagra, Surjit S.; and Strilchuk, Andrew R., 4,648,453, Cl. 166-281.000.
Ortloff, John E., 4,677,930, Cl. 114-230.000.
Paal, Ernest F., 4,695,984, Cl. 367-54.000.
Richart, Jene A., 4,660,647, Cl. 166-386.000.
Rickey, Wynn P., 4,646,839, Cl. 166-335.000.
Sengupta, Mrinal K., 4,694,438, Cl. 367-70.000.
Thompson, Arthur H.; and Katz, Alan J., 4,648,261, Cl. 73-38.000.
Weyler, Michael E., 4,655,641, Cl. 405-204.000.
Willen, Dennis E., 4,672,588, Cl. 367-28.000.
Winbow, Graham A.; and Baker, Lawrence J., 4,649,526, Cl. 367-35.000.
Wood, Norman H.; Gray, Walter E.; Yemington, Charles R.; and Louis, Bill G., 4,661,017, Cl. 405-169.000.
Zimmerman, Carol J., 4,706,223, Cl. 367-38.000.

Exxon Research and Engineering Co.: *See—*
Abeles, Benjamin; Eberhardt, Wolfgang U.; and Tiedje, J. Thomas, 4,684,565, Cl. 428-220.000.
Atherton, George A.; Dickakian, Ghazi B.; and Grant, Edward D., Jr., 4,636,048, Cl. 210-771.000.
Bailey, George W.; and Swan, George A., 4,634,515, Cl. 208-91.000.
Baird, William C., Jr., 4,701,255, Cl. 208-139.000.
Baker, James K., 4,713,778, Cl. 364-513.500.
Bearden, Roby, Jr.; and Aldridge, Clyde L., 4,637,870, Cl. 208-112.000.
Bearden, Roby, Jr.; and Aldridge, Clyde L., 4,637,871, Cl. 208-112.000.
Best, Steven A., 4,634,747, Cl. 526-124.000.
Best, Steven A., 4,634,748, Cl. 526-124.000.
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Best, Steven A., 4,634,750, Cl. 526-129.000.
Best, Steven A., 4,634,751, Cl. 526-129.000.
Best, Steven A., 4,639,428, Cl. 502-115.000.
Best, Steven A., 4,640,907, Cl. 502-115.000.
Best, Steven A., 4,657,997, Cl. 526-129.000.
Bhattacharya, Sabyasachi; Bloch, Aaron N.; and Stokes, James P., 4,636,737, Cl. 329-110.000.
Bloch, Aaron N.; and Sheng, Ping, 4,683,160, Cl. 428-141.000.
Bock, Jan; Brownawell, Darrell W.; Gutierrez, Antonio; Robbins, Max L.; Shaub, Harold; and Steyn, Peter L., 4,684,473, Cl. 252-49.800.
Bock, Jan; Siano, Donald B.; and Turner, S. Richard, 4,694,046, Cl. 525-329.400.
Bock, Jan; Valint, Paul L.; and Pace, Salvatore J., 4,702,319, Cl. 166-275.000.
Bock, Jan; Pace, Salvatore J.; and Schulz, Donald N., 4,709,759, Cl. 166-275.000.
Bolland, Daniel B., 4,679,425, Cl. 73-49.200.
Bossaert, Bernard; Lepert, Andre; Lechat, Jacques; Hughes, Vincent L.; and Yap, Raymond C. C., 4,650,829, Cl. 525-99.000.
Bouboulis, Constantine J., 4,638,031, Cl. 524-773.000.
Brewster, Phillip W.; Smith, Clinton R.; and Gowland, Frederick W., 4,683,069, Cl. 252-32.70E.
Brewster, Phillip W.; and Smith, Clinton R., 4,707,285, Cl. 252-50.000.
Bristow, Duncan J.; Achia, Biddanda U.; and Evers, Lawrence J., 4,673,485, Cl. 208-86.000.
Brois, Stanley J.; and Gutierrez, Antonio, 4,637,886, Cl. 252-51.50A.
Chen, Te H.; Cicchino, Dominic; and Shadbolt, Peter J., 4,711,186, Cl. 110-336.000.
Clementoni, Dominick, 4,647,313, Cl. 106-281.00R.
Cozewith, Charles; Ju, Shiaw; and Ver Strate, Gary W., 4,716,207, Cl. 526-169.200.
Dean, Anthony M.; DeGregoria, Anthony J.; Hardy, James E.; Hurst, Boyd E.; and Lyon, Richard K., 4,636,370, Cl. 423-235.000.
Dean, Anthony M.; DeGregoria, Anthony J.; Hardy, James E.; and Lyon, Richard K., 4,682,468, Cl. 60-39.020.
Deckman, Harry W.; Stephens, Richard B.; Tiedje, J. Thomas; and Abeles, Benjamin, 4,701,366, Cl. 428-188.000.
Dekraker, Abraham R.; and Martella, David J., 4,670,130, Cl. 208-33.000.
Drake, Evelyn N.; and Calcavecchio, Peter, 4,663,366, Cl. 523-130.000.
Duvdevani, Ilan; Wagensommer, Joseph; and Agarwal, Pawan K
4,634,542, Cl. 252-47.500.
Duvdevani, Ilan; Lundberg, Robert D.; Kowalik, Ralph M.; an
Peiffer, Dennis G., 4,656,204, Cl. 523-175.000.
Duvdevani, Ilan, Manalastas, Pacifico V.; Drake, Evelyn N.; an
Thaler, Warren A., 4,701,204, Cl. 71-28.000.
Eckert, John A., 4,647,291, Cl. 44-62.000.
Etherton, Bradley P.; and Kaus, Malcolm J., 4,634,746, C
526-124.000.
Eustace, Daniel J.; Siano, Donald B.; Drake, Evelyn N.; and Ca
cavecchio, Peter, 4,683,953, Cl. 166-294.000.
Farcasiu, Dan, 4,672,147, Cl. 585-668.000.
Farcasiu, Dan, 4,673,769, Cl. 585-458.000.
Farcasiu, Dan, 4,683,216, Cl. 502-159.000.
Feldman, Nicholas; and Frankenfeld, John W., 4,634,550, Cl. 25
56.00D.
Fiato, Rocco A.; Bar-Gadda, Ronny; and Miseo, Sabato, 4,657,8
Cl. 502-241.000.
Fiato, Rocco A.; Rice, Gary W.; Miseo, Sabato; and Soled, Stu
L., 4,687,753, Cl. 502-5.000.
Fiato, Rocco A.; and Kugler, Edwin L., 4,689,313, Cl. 502-177.0
Fiocco, Robert J., 4,634,578, Cl. 422-257.000.
Fracasiu, Dan A., 4,677,090, Cl. 502-168.000.
Frain, William J., III; Hazelton, Donald R.; and Young, Edgar W
4,673,604, Cl. 428-95.000.
Gardner, Irwin J.; Fusco, James V.; and Baldwin, Francis
4,634,741, Cl. 525-355.000.
Gardner, Irwin J.; and Fusco, James V., 4,649,178, Cl. 525-306.0
Gardner, Irwin J.; Fusco, James V.; and Baldwin, Francis
4,681,921, Cl. 525-357.000.
Gardner, Irwin J.; Fusco, James V.; Newman, Neil F.; Kowals
Ronald C.; Davis, William M.; and Baldwin, Francis
4,703,091, Cl. 525-332.300.
Gates, William E.; and Fiato, Rocco A., 4,639,431, Cl. 502-304.0
Goldblatt, Irwin L.; and Mendelson, Leah T., 4,705,641,
252-35.000.
Goldblatt, Irwin L.; and Shaub, Harold, 4,707,284, Cl. 252-32.7
Gorter, Helen R.; Moran, Lyle E.; Robertson, Warren D.;
Savard, Shaunalea, 4,711,672, Cl. 106-281.00R.
Graves, Victoria, 4,665,262, Cl. 585-512.000.
Grimes, Patrick G., 4,637,968, Cl. 429-105.000.
Gutierrez, Antonio; Brois, Stanley J.; Ryer, Jack; and Deen, Har
E., 4,664,826, Cl. 252-482.000.
Gutierrez, Antonio; Brois, Stanley J.; Ryer, Jack; and Deen, Har
E., 4,702,850, Cl. 252-48.200.
Halbert, Thomas R.; and Stiefel, Edward I., 4,681,958,
556-42.000.
Hanin, Jean A.; and Verrier, Pierre E., 4,683,343, Cl. 568-594.0
Hanin, Jean A. A.; and Verrier, Pierre E., 4,656,215,
524-376.000.
Hanin, Jean A. A., 4,658,068, Cl. 568-451.000.
Hazelton, Donald R.; and Puydak, Robert C., 4,639,487,
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Ho, Teh C.; Chianelli, Russell R.; Jacobson, Allan J.; and Yo
Archie R., 4,698,145, Cl. 208-18.000.
Hou, Ching-Tsang; and Barnabe, Nancy P., 4,690,891,
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Hudson, Carl W.; and Hamner, Glen P., 4,664,777, Cl. 208-112
Hughes, Vincent L.; and Looney, Ralph W., 4,714,749,
526-290.000.
Jacobson, Allan J.; Chianelli, Russell R.; and Pecoraro, Theres
4,650,563, Cl. 208-108.000.
Jacobson, Allan J.; Ho, Teh C.; Chianelli, Russel R.; and Peco
Theresa A., 4,666,878, Cl. 502-221.000.
Jacobson, Allan J.; Ho, Teh C.; Chianelli, Russell R.; Steger,
J.; and Montagna, Angelo A., 4,716,139, Cl. 502-167.000.
Jenkinson, Ronald J., 4,690,802, Cl. 422-141.000.
Jevanoff, Andre; and Kresge, Edward N., 4,659,759,
524-68.000.
Johnson, Burnett H., 4,707,530, Cl. 526-129.000.
Kitano, Kissho; Duvdevani, Ilan; and Schulz, Donald N., 4,71
Cl. 44-7.300.
Klovstad, John W.; Lee, Chin-Hui; and Ganesan, Ka
4,713,777, Cl. 364-513.500.
Kowalski, Ronald C.; Davis, William M.; Newman, Neil F.;
lis, Zisis A.; and Baldwin, Francis P., 4,650,832, Cl. 525-35
Kresge, Edward N.; and Ver Strate, Gary W., 4,666,619, Cl
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Lee, Wei Kuo; and Wong, Hin-Wan, 4,682,986, Cl. 48-210.0
Lewtas, Kenneth, 4,661,121, Cl. 44-70.000.
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Lipkin, Gregory M.; and Lynch, Byron C., 4,662,99
203-98.000.
Luckenbach, Edward C.; and Bertsch, Carl F., 4,666,58
208-113.000.
Lundberg, Robert D.; Duvdevani, Ilan; and Peiffer, Denn
4,647,603, Cl. 523-339.000.
Lundberg, Robert D.; Phillips, Robert R.; Peiffer, Dennis G
Duvdevani, Ilan, 4,665,115, Cl. 524-251.000.
Lundberg, Robert D.; Phillips, Robert R.; Minckler, L. Sher
and Chung, David Y., 4,692,268, Cl. 252-33.400.
Luvinh, Quoc; Lechat, Jacques; Evans, Morris L.; and
Andre, 4,636,555, Cl. 526-290.000.
Malpass, Dennis B., 4,657,998, Cl. 526-144.000.
Mauldin, Charles H., 4,647,592, Cl. 518-715.000.

- Mauldin, Charles H.; Davis, Stephen M.; and Arcuri, Kym B., 4,663,305, Cl. 502-304.000.
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- McCandlish, Larry E.; and Ho, Teh C., 4,663,023, Cl. 208-112.000.
- McCandlish, Larry E.; and Ho, Teh C., 4,705,619, Cl. 208-112.000.
- McMath, Henry G., Jr., 4,648,965, Cl. 208-411.000.
- Metro, Stephen J.; and Carr, Dale D., 4,655,946, Cl. 252-32.500.
- Mintz, Donald J.; Brons, Cornelius H.; and Smith, Floyd E., 4,634,510, Cl. 204-188.000.
- Mintz, Donald J.; Kelly, Arnold J.; and Gleason, Anthony M., 4,661,226, Cl. 204-186.000.
- Mintz, Donald J., 4,696,750, Cl. 210-727.000.
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- Murphy, Martin A., 4,676,888, Cl. 208-92.000.
- Murrell, Lawrence L.; Dispenziere, Nicholas C., Jr.; and Polizzotti, Richard S., 4,692,428, Cl. 502-254.000.
- Murrell, Lawrence L.; and Dispenziere, Nicholas C., Jr., 4,708,945, Cl. 502-263.000.
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- Nuttens, Hugo J. C.; and VanHaeren, Gerard, 4,698,450, Cl. 585-520.000.
- Osman, Robert M.; and Shulik, Larry J., 4,637,918, Cl. 422-148.000.
- Oswald, Alexis A.; Jermasen, Torris G.; Westner, Andrew A.; and Huang, I-Der, 4,668,809, Cl. 556-18.000.
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- Oswald, Alexis A.; and Bhatia, Ram N., 4,711,968, Cl. 568-454.000.
- Overfield, Robert E., 4,643,821, Cl. 208-251.00R.
- Peiffer, Dennis G.; Lundberg, Robert D.; and Pober, Kenneth W., 4,637,882, Cl. 252-8.514.
- Peiffer, Dennis G.; Kowalik, Ralph M.; and Lundberg, Robert D., 4,640,945, Cl. 523-336.000.
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- Pieters, Wim J. M.; and Okumura, Yoshiharu, 4,638,106, Cl. 585-640.000.
- Pine, Lloyd A., 4,701,431, Cl. 502-73.000.
- Pirkle, James C., Jr., 4,655,796, Cl. 55-3.000.
- Poeppelmeier, Kenneth R.; Funk, Walter G.; Steger, John J.; Fung, Shun C.; Cross, Virginia R.; and Kao, Jar-Lin, 4,648,960, Cl. 208-138.000.
- Ratcliffe, Charles T.; and Tromp, Petrus J., 4,668,825, Cl. 568-70.000.
- Rice, Gary W.; Fiato, Rocco A.; and Soled, Stuart L., 4,659,681, Cl. 502-5.000.
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- Rogers, Robert L., 4,714,934, Cl. 346-140.00R.
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- Roxlo, Charles B.; and Deckman, Harry W., 4,690,750, Cl. 208-310.00Z.
- Ryan, Douglas G.; and Ackerman, Steven, 4,702,817, Cl. 208-28.000.
- Ryan, Jack L.; Bray, Lane A.; and Boldt, Allyn L., 4,686,019, Cl. 204-1.500.
- Schlett, Paul E.; Peterson, John R.; Caprio, James A.; and Kleeb, Thomas R., 4,656,146, Cl. 501-124.000.
- Schlosberg, Richard H.; and Olmstead, William N., 4,652,647, Cl. 546-7.000.
- Schorfheide, James J., 4,690,806, Cl. 423-230.000.
- Schulz, Donald N.; Duvdevani, Ilan; Bock, Jan; and Berluche, Enock, 4,650,848, Cl. 526-287.000.
- Schulz, Donald N.; Berluche, Enock; Maurer, John J.; and Bock, Jan, 4,663,408, Cl. 526-240.000.
- Schulz, Donald N.; and Kaladas, Jeffrey J., 4,708,998, Cl. 526-287.000.
- Scouten, Charles G., 4,661,637, Cl. 568-716.000.
- Sharp, David W., 4,668,130, Cl. 406-14.000.
- Shulman, Cindy B.; and Spenadel, Lawrence, 4,673,620, Cl. 428-379.000.
- Siano, Donald B.; and Bock, Jan, 4,673,716, Cl. 525-367.000.
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- Singhal, Gopal H.; and Culross, Claude C., 4,681,957, Cl. 556-38.000.
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- Soled, Stuart L.; and Fiato, Rocco A., 4,670,476, Cl. 518-717.000.
- Stogryn, Eugene L.; Ho, W.S. Winston; and Montagna, Angelo A., 4,665,195, Cl. 548-523.000.
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- Tauster, Samuel J.; Montagna, Angelo A.; Steger, John J.; Fung, Shun C.; and Cross, Virginia R., 4,634,517, Cl. 208-138.000.
- Thaler, Warren A.; Brois, Stanley J.; and Ferrara, Francis N., 4,652,600, Cl. 524-547.000.
- Thompson, John A., 4,715,960, Cl. 210-651.000.
- Tiedje, Thomas J.; and Abeles, Benjamin, 4,642,144, Cl. 148-175.000.
- van der Vleugel, Dominicus J. M.; Hoving, Klaas; Wortel, Theodorus M.; Rosensweig, Ronald E.; and Rees, Lovat V. C., 4,687,878, Cl. 585-820.000.
- van Vliet, Arie, 4,647,707, Cl. 568-882.000.
- Vaughan, David E., 4,657,749, Cl. 423-329.000.
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- Vaughan, David E. W., 4,666,877, Cl. 502-84.000.
- Vaughan, David E. W., 4,714,601, Cl. 423-329.000.
- Wachs, Israel E.; and Yang, Darchun B., 4,711,871, Cl. 502-325.000.
- Weber, Paul S., 4,668,303, Cl. 134-22.130.
- Wernick, David L., 4,678,555, Cl. 208-36.000.
- West, Theodore H., 4,695,363, Cl. 208-33.000.
- Wickson, Edward J., 4,656,214, Cl. 524-287.000.
- Wisotsky, Max J.; Bloch, Ricardo; Brownawell, Darrell W.; Chen, Frank J.; and Gutierrez, Antonio, 4,686,054, Cl. 252-32.70E.
- Wortel, Theodorus M., 4,677,236, Cl. 585-419.000.
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- Wronski, Christopher R., 4,701,395, Cl. 430-58.000.
- Yeh, Chuen Y.; and Savini, Charles, 4,649,223, Cl. 568-403.000.
- Young, Archie R.; Ho, Teh C.; Jacobson, Allan J.; and Chianelli, Russell R., 4,668,376, Cl. 208-108.000.

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  - Zalmon, Seev W.; Engel, Shlomo; and Eyal, Joseph, 4,641,802, Cl. 244-3.280.

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  - Eybert-Berard, Andre; and Eybert-Berard, Andre, 4,653,379, Cl. 89-1.340.

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Eydt, Christopher A., to Safety Solutions Co. Inc. Automotive headlight control. 4,686,423, 8-11-87, Cl. 315-82.000.

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  - Simon, James A., 4,701,962, Cl. 2-15.000.

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  - Pomerantzeff, Oleg, 4,699,480, Cl. 351-205.000.
  - Pomerantzeff, Oleg, 4,710,002, Cl. 351-205.000.

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Eylon, Daniel; and Froes, Francis H., to United States of America, Air Force. Method for producing very fine microstructures in titanium alloy powder compacts. 4,714,587, 12-22-87, Cl. 419-29.000.

Eylon, Daniel: *See—*
  - Levin, Lev; Vogt, Russell G.; Eylon, Daniel; and Froes, Francis H., 4,655,855, Cl. 148-20.300.
  - Vogt, Russell G.; Eylon, Daniel; and Froes, Francis H., 4,680,063, Cl. 148-11.50F.

Eysholt, Ursula: *See—*
  - Sturm, Walter; Becker, Helmut; Witt, Jurgen; Fritz, Werner; and Eysholt, Ursula, 4,644,166, Cl. 250-372.000.

Eyuboglu, Vedat M., to Codex Corporation. Coded modulation system with a simplified decoder capable of reducing the effects of channel distortion. 4,713,829, 12-15-87, Cl. 375-37.000.

EZ Mail Corporation: *See—*
  - Harlow, Albert L., Jr.; and Felske, Arthur M., 4,714,192, Cl. 232-17.000.

Ezaki, Masami, Hashimoto, Seiji; Komori, Tadaaki; Umehara, Kazuyoshi; and Kohsaka, Masanobu, to Fujisawa Pharmaceutical Co., Ltd. New compound, FR-900451, production and use thereof. 4,654,211, 3-31-87, Cl. 424-116.000.

Ezaki, Shigeo: *See—*
  - Sawada, Kazuo; Takano, Satoshi; and Ezaki, Shigeo, 4,673,790, Cl. 219-69.00W.

Ezaki, Yasuo, to Excell Corporation. Method and apparatus for manufacturing a hollow plastic product. 4,659,531, 4-21-87, Cl. 264-515.000.

Ezard, Francis I., to Ezijoin Pty. Ltd. Manufacture of wooden beams. 4,653,242, 3-31-87, Cl. 52-727.000.

Ezawa, Akira: *See—*
  - Ogawa, Hidehiro; Ezawa, Akira; and Ikeda, Kei, 4,652,102, Cl. 354-21.000.
  - Uematsu, Kimio; and Ezawa, Akira, 4,666,278, Cl. 354-288.000.

Ezekiel Nominees Pty. Ltd.: *See—*
  - Barrett, Graham D., 4,664,666, Cl. 623-6.000.

Ezekiel, Shaoul: *See—*
  - Snitzer, Elias; and Ezekiel, Shaoul, 4,637,025, Cl. 372-1.000.

Ezekoye, L. Ike, to Westinghouse Electric Corp. Surge suppressing check valve. 4,646,782, 3-3-87, Cl. 137-527.800.

Ezekoye, L. Ike; Rusnica, Edward J.; and Sepp, Henry A., Jr., to Westinghouse Electric Corp. Forming a seal between planar sealing surfaces. 4,716,005, 12-29-87, Cl. 376-205.000.

Ezer, Elemer; Harsanyi, Kalman; Vikar nee Petho , Hajnalka; Matuz, Judit; Szporny, Laszlo ; Cholnoky, Eszter; Kuthi, Osaba; Trischler, Ferenc; Hegedus, Bela; Kapolnas nee Pap, Marta; and Kallay nee Sohonyai, Anna, to Richter Gedeon Vegyeszeti Gyar Rt. 2-hydroxy-

and 2-halo-ethylthiopyridine intermediates for preparing antiulcer compounds. 4,691,017, 9-1-87, Cl. 546-298.000.

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Ezer, Elemer: *See—*
  Bernath, Gabor; Kobor, Jeno; Fulop, Ferenc; Motika, Gabor; Sohajda, Attila; Ezer, Elemer; Hajos, Gyorgy; Palosi, Eva; Denes, Laszlo; and Szporny, Laszlo, 4,654,351, Cl. 514-307.000.
  Bernath, Gabor; Kobor, Jene; Fulop, Ferenc; Ezer, Elemer; Hajos, Gyorgy; Palosi, Eva; Denes, Laszlo; and Szporny, Laszlo, 4,656,179, Cl. 514-307.000.
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Ezernack, Daniel D.; and Armstrong, Robert B., to M. W. Kellogg Company, The. Diesel fuel production. 4,695,367, 9-22-87, Cl. 208-106.000.

Ezijoin Pty. Ltd.: *See—*
  Ezard, Francis I., 4,653,242, Cl. 52-727.000.

Ezura, Toyokazu; Katsumata, Fujio; and Ikeya, Kiyokazu, to Texas Instruments Incorporated. Plug-in socket assembly for integrated circuit package. 4,715,823, 12-29-87, Cl. 439-267.000.

Ezure, Tadayoshi; and Sekiguchi, Shigemi, to Hosiden Electronics Co., Ltd. Connector plug. 4,684,199, 8-4-87, Cl. 439-610.000.

Ezzell, Bobby R.; Carl, William P.; and Mod, William A., to Dow Chemical Company, The. Preparation, decarboxylation and polymerization of novel acid fluorides and resulting monomers. 4,687,821, 8-18-87, Cl. 526-247.000.

Ezzell, Bobby R.: *See—*
  Cipriano, Robert A.; and Ezzell, Bobby R., 4,652,350, Cl. 204-72.000.
  Martin, Charles W.; Ezzell, Bobby R.; and Weaver, John D., 4,661,411, Cl. 428-421.000.

F.B.M. Hudson Italiana S.p.A.: *See—*
  Nardella, Massimiliano, 4,692,100, Cl. 416-232.000.

F. C. Brown (Steel Equipment) Limited: *See—*
  Deacon, Bryan, 4,658,611, Cl. 70-360.000.

F.C.N.s.r.l.: *See—*
  Revici, Emanuel, 4,681,753, Cl. 424-10.000.

F. F. Mengel Company: *See—*
  Mengel, William F., 4,692,058, Cl. 404-72.000.

F. F. Seeley Nominees Pty., Ltd.: *See—*
  Colliver, Anthony D.; and Wrightson, Robert W., 4,643,644, Cl. 416-174.000.
  Dickison, Maxwell, 4,653,710, Cl. 248-188.700.

F. G. Wilson (Engineering) Limited: *See—*
  Wilson, Frederick G., 4,646,499, Cl. 52-408.000.

F. Gegauf AG Bernina Nahmaschinenfabrik: *See—*
  Janouschek, Heinz, 4,694,764, Cl. 112-237.000.
  Spring, Andreas, 4,646,982, Cl. 242-20.000.

F.I.C.I. Finanziaria Industriale Commerciale Immobiliare S.p.A.: *See—*
  Castiglioni, Giovanni P., 4,641,559, Cl. 83-333.000.

F. J. Littell Machine Company: *See—*
  Boytor, Samuel G.; and Jurs, Jeffry W., 4,697,231, Cl. 364-188.000.
  Duina, Franco G., 4,643,634, Cl. 414-749.000.

F. Korbel and Bros.: *See—*
  Steinke, Dale F., 4,651,637, Cl. 100-117.000.

F. Kurt Retsch GmbH & Co. KG: *See—*
  Sijsling, Dirk, 4,688,727, Cl. 241-56.000.

F. L. Saino Manufacturing Co.: *See—*
  Longora, Ritchie L., 4,698,967, Cl. 60-325.000.

F.L. Smidth & Co.: *See—*
  Lind, Leif, 4,659,342, Cl. 55-2.000.

F. L. Smidth & Co. A/S: *See—*
  Barlebo, Lars M.; and Nickelsen, Joachim, 4,642,905, Cl. 34-10.000.
  Bojsen, Erik M., 4,706,763, Cl. 173-100.000.
  Enkegaard, Torben, 4,695,325, Cl. 106-100.000.
  Enkegaard, Torben, 4,715,188, Cl. 62-63.000.
  Folsbeg, Jan, 4,636,302, Cl. 209-144.000.
  Folsberg, Jan, 4,689,140, Cl. 209-139.200.
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  Folsberg, Jan, 4,715,544, Cl. 241-57.000.
  Horning, Bent, 4,653,578, Cl. 165-84.000.
  Taarning, Claus E., 4,644,439, Cl. 361-87.000.
  Taarning, Claus E., 4,698,719, Cl. 361-87.000.
  Trelby, Ib V., 4,697,747, Cl. 241-54.000.
  West, Henrik, 4,697,686, Cl. 193-23.000.

F. L. Smithe Machine Company, Inc.: *See—*
  Helm, Herbert W., 4,642,085, Cl. 493-222.000.

F.LLI Cucchi S.R.L.: *See—*
  Cucchi, Giovanni; and Cucchi, Pietro, 4,639,180, Cl. 414-224.000.
  Cucchi, Giovanni; and Cucchi, Pietro, 4,667,789, Cl. 192-48.910.

f.m.e. Corporation: *See—*
  Chou, Jau-Yi, 4,706,767, Cl. 177-50.000.
  Payn, Ward J., 4,644,142, Cl. 235-101.000.
  Payn, Ward J.; and Niemi, Onni W., 4,656,341, Cl. 235-101.000.
  Payn, Ward J.; Niemi, Onni W.; McDonald, John V.; Simon, Elizabeth A.; and Leonard, Daniel P., 4,658,122, Cl. 235-101.000.
  Payn, Ward J.; and Pike, Timothy D., 4,658,123, Cl. 235-101.000.
  Pike, Timothy D., 4,650,973 Cl. 235-1.00D.

F. M. Locotos Co., Inc.: *See—*
  Hipkins, Edward C., Sr.; Locotos, Frank M.; and Comfort, Joseph D., 4,655,645, Cl. 405-261.000.
  Hipkins, Edward C., Sr.; and Locotos, Frank M., 4,679,967, Cl. 405-288.000.
  Hipkins, Edward C., Sr.; and Locotos, Frank M., 4,704,053, Cl. ,405-261.000.
  Locotos, Frank M., 4,708,559, Cl. 411-545.000.

F.M. Valve Manufacturing Co., Ltd.: *See—*
  Kawabe, Ryoichi; Iwasaki, Tetsuo; Kozuru, Hiroshi; Yoda, Masashi; Matsunaga, Masakazu; Takamori, Takesi; and Nakasima, Matao, 4,707,867, Cl. 4-313.000.

F. P. Bourgault Industries, Ltd.: *See—*
  Bourgault, Francois P.; and Bourgault, Joseph L., 4,655,296, Cl. 172-400.000.

F. P. C. Research, Inc.: *See—*
  Bright, Randall P.; Double, David D.; and Wise, Sean, 4,666,52 Cl. 106-97.000.

F.P.D. Future Patents Development Company S.A.: *See—*
  Klawitter, Hans J., 4,635,822, Cl. 222-82.000.
  Pershall, Faith, 4,666,062, Cl. 222-82.000.

F.R.P. Industires, Inc.: *See—*
  Moore, James G., 4,704,991, Cl. 119-73.000.

F. Wieland Elektrische Industrie GmbH: *See—*
  Schuir, Alexander; and Schrauder, Franz, 4,648,184, Cl. 33-18.10

F. Zimmermann & Co.: *See—*
  Zimmermann, Gert, 4,657,035, Cl. 133-5.00R.
  Zimmermann, Gert, 4,681,204, Cl. 194-317.000.

Fa. Wilhelm Barenschee: *See—*
  Guthling, Klaus; Meyer, Adolf J.; and Miethe, Manfred, 4,641,57 Cl. 101-415.100.

Faa, Leland M., Jr., to NCR Corporation. Heat sink for solid sta devices connected to a circuit board. 4,669,028, 5-26-87, Cl. 361-386.000.

Faasse, Adrain L., Jr. Pharmaceutical packaging method. 4,664,7 5-12-87, Cl. 156-264.000.

Faasse, Gene E., to Steel Heddle Manufacturing Co. Heddle frame fo a high speed weaving machine. 4,687,030, 8-18-87, Cl. 139-91.00

Fabbri, Bruno, to CSELT - Centro Studi e Laboratori Telecomunicazioni S.p.A. Capacitive devices for measuring the diameter of a dielectric fiber. 4,706,014, 11-10-87, Cl. 324-61.00P.

Fabbri, Fabrizio, to COMER S.p.A. Angle drive transmission un particularly for agricultural machinery. 4,696,199, 9-29-87, Cl 74-417.000.

Fabbrica d'Armi P. Beretta S.p.A.: *See—*
  Beretta, Pier G., 4,663,878, Cl. 42-100.000.
  Beretta, Pier G., 4,693,169, Cl. 89-129.020.

Fabbrica Italiana Magneti Marelli S.p.A.: *See—*
  Izzi, Gilberto, 4,705,607, Cl. 204-15.000.

Fabbro, Miguel, to Bifa Corporation. Grille apparatus. 4,694,81 9-22-87, Cl. 126-41.00R.

Fabbro, Oreste, to Rory Ltd. Cap-, dropper- and ring assembly for bottles. 4,633,922, 1-6-87, Cl. 141-24.000.

Fabco-Air, Inc.: *See—*
  Schmidt, Alfred W.; and Reed, Douglas G., 4,660,877, Cl 294-88.000.

Fabco Medical Products, Inc.: *See—*
  Nastari, John J.; and Cotter, Walter C., 4,643,178, Cl. 128-92.0YD

Fabcon, Inc.: *See—*
  Hanson, David W.; Koehn, Richard R.; Nash, Richard C.; and Fox, Lonnie G., 4,644,727, Cl. 52-687.000.

Fabel, Arthur J., to Perkin-Elmer Corporation, The. Plasma flame spray gun method and apparatus with adjustable ratio of radial and tangential plasma gas flow. 4,674,683, 6-23-87, Cl. 239-13.000.

Fabel, Eugen: *See—*
  Butikofer, Willy, 4,647,052, Cl. 279-83.000.

Fabel, Ludwig, to Arthur Pfeifer Vakuummtechnik Wetzlar GmbH. Seal arrangement for an oil-sealed rotary vacuum pump. 4,652,214, 3-24-87, Cl. 417-45.000.

Faber, Elmer L., to Deco Tools, Inc. Robotic paint masking machine. 4,662,310, 5-5-87, Cl. 118-503.000.

Faber, Ernst, to Walter Just Gesellschaft m.b.H. Belt stamp. 4,697,513, 10-6-87, Cl. 101-111.000.

Faber, Guy; and Kuhnen, Gottfried, to BBC Brown, Boveri & Company, Limited. Method for fastening blades on the periphery of the rotor body of a steam turbine and the turbo-machine produced by the method. 4,710,103, 12-1-87, Cl. 416-219.00R.

Faber, Jerry L.; and Kent, Richard W., Jr., to Central Soya Company, Inc. Process for the manufacture of aquatic bait blocks. 4,634,592, 1-6-87, Cl. 426-1.000.

Faber, Johannes W., to U.S. Philips Corporation. Disc cassette with slidable cover. 4,660,118, 4-21-87, Cl. 360-133.000.

Faber, Johannes W.; and Janssen, Peter J. M., to U.S. Philips Corporation. Device for translating a slide. 4,698,798, 10-6-87, Cl. 369-219.000.

Faber, Johannes W.: *See—*
  Smulders, Hendricus F. G.; Franken, Adrianus J. J.; Faber, Johannes W.; and Swinkels, Wouter H., 4,637,777, Cl. 414-751.000.

Faber, Joseph; and Myers, Paul, to Sundstrand Corporation. Fluid operated disconnect coupling. 4,697,680, 10-6-87, Cl. 192-86.000.

Faber, Pieter. Concrete foundation pile and device for driving the same into the ground. 4,708,530, 11-24-87, Cl. 405-252.000.

Faber, Werner, to Siemens Aktiengesellschaft. Saw filter having response enhanced via dampening. 4,672,338, 6-9-87, Cl. 333-194.000.

Faberge Incorporated: *See—*
Shernov, Stephen L.; Siegal, Maurice; and Markowitz, Richard, 4,673,569, Cl. 424-47.000.

Fabian, Ellis, to Xerox Corporation. Method and apparatus for extruding creaseless thin walled tubes. 4,698,196, 10-6-87, Cl. 264-565.000.

Fabian, Frank-Dietrich: *See—*
Conrad, Ulrich; Kellermann, Guenter; Breymayer, Angela; Klinker, Rolf; Schuldt, Oswald; Hoffmann, Rainer; and Fabian, Frank-Dietrich, 4,709,548, Cl. 60-280.000.

Fabian, Klaus: *See—*
Fock, Kurt; Hermann, Hans D.; Fabian, Klaus; and Ebigt, Joachim, 4,663,235, Cl. 428-437.000.

Fabian nee Orban, Ilona: *See—*
Hosztafi, Sandor; Timar, Tibor; Salamon, Zoltan; Fabian nee Orban, Ilona; and Nagy nee Vajda, Julianna, 4,647,694, Cl. 562-443.000.

Fabian, Peter; and Hoffmann, Karl-Heinz, to Reimbold & Strick GmbH & Co. Annular gap-type ball mill. 4,703,896, 11-3-87, Cl. 241-172.000.

Fabian, Wolfgang; Kopineck, Hermann J.; and Tappe, Wilhelm, to Hoesch Stahl Aktiengesellschaft. Apparatus for correcting the thickness profile of a strip to be rolled in a multiple stand hot strip mill train. 4,674,309, 6-23-87, Cl. 72-9.000.

Fabiano, Stephen. Hand-powered toy vehicle. 4,667,975, 5-26-87, Cl. 280-211.000.

Fabien, Raymond; and Decrouen, Jean-Michel, to U.S. Philips Corporation. Method of planarizing the surface of a semiconductor device, in which silicon nitride is used as isolating material. 4,692,204, 9-8-87, Cl. 156-626.000.

Fabinski, Walter; Apel, Willi; Bernhardt, Guenter; Jezdinsky, Rudolf; and Wolf, Heinz, to Hartmann & Braun AG. Photometer for measuring hot gases. 4,671,664, 6-9-87, Cl. 356-440.000.

Fabinski, Walter; and Schaefer, Werner, to Hartmann & Braun AG. Infrared gas analyzer. 4,682,031, 7-21-87, Cl. 250-345.000.

Fabinski, Walter, to Hartmann & Braun AG. Photometer. 4,700,073, 10-13-87, Cl. 250-343.000.

Fabinski, Walter, to Hartmann & Braun AG. Photometer. 4,714,832, 12-22-87, Cl. 250-343.000.

Fabiny, Eugene S.; Hessler, George W.; and Bradel, John H., Jr., to Hussey Copper, Ltd. Process and apparatus for coating. 4,634,609, 1-6-87, Cl. 427-345.000.

Fabiny, William J.: *See—*
Mosser, Mark F.; and Fabiny, William J., 4,683,157, Cl. 428-55.000.

Faborga, S.A.: *See—*
Bouet, Philippe A., 4,704,208, Cl. 210-698.000.

Fabraze, Inc.: *See—*
Baldelli, Joseph, 4,653,568, Cl. 164-7.100.

Fabre, Claire, to Institut National de la Recherche Agronomique. Process for the thermal treatment of fluids. 4,689,237, 8-25-87, Cl. 426-521.000.

Fabre, Jean-Louis; Farge, Daniel; James, Claude; and Lave, Daniel, to Rhone-Poulenc Sante. Anti-thrombotic ortho-condensed pyrrole derivatives, compositions, and method of use therefor. 4,684,658, 8-4-87, Cl. 514-338.000.

Fabre, Pierre; and Negre, Didier, to Aerospatiale Societe Nationale Industrielle. Control device with two coupled control sticks. 4,688,443, 8-25-87, Cl. 74-469.000.

Fabrica d'Armi P.Beretta S.p.A.: *See—*
Beretta, Pier G., 4,697,495, Cl. 89-143.000.

Fabricacion de Maquinas, S.A.: *See—*
Delonghi, Adriano G. A., 4,634,002, Cl. 206-158.000.

Fabricas Lucia, Antonio Betere, S.A.: *See—*
Guerra, Fernando G., 4,704,751, Cl. 5-236.00R.

Fabricated Steel Products, division of Indal Limited: *See—*
Audry, Gordon J., 4,641,732, Cl. 188-379.000.

Fabricius, Hans-Ake; and Kottgen, Eckart U., to Shanksville Corporation N.V. Regulatory glycoprotein for immune response and the use there of in the production of T-cell growth factor. 4,661,447, 4-28-87, Cl. 435-68.000.

Fabricius, Hans-Ake; and Kottgen, Eckart U., to Shanksville Corporation N.V. Process for producing an Interleukin-1 preparation. 4,681,844, 7-21-87, Cl. 435-68.000.

Fabricius, John H.: *See—*
Landis, Donald; and Fabricius, John H., 4,672,997, Cl. 137-554.000.

Fabricom Corporation: *See—*
Florine, Jean, 4,700,326, Cl. 364-200.000.

Fabrig, Paul, to Womako Maschinenkonstruktionen GmbH. Method of breaking up stacks of paper sheets or the like. 4,662,816, 5-5-87, Cl. 414-786.000.

Fabrique de fer de Maubeuge: *See—*
Gerard, Guy, 4,645,694, Cl. 427-431.000.

Fabriques de Tabac Reunies, S.A.: *See—*
Challand, Ian, 4,646,960, Cl. 229-44.0CB
Gusch, Helmut; and Nyffeler, Urs, 4,709,710, Cl. 131-308.000.

Fabris, Hubert J.; Melby, Earl G.; Chihara, Kohji Y.; and Cocain, Harry W., to GenCorp Inc. Abrasion resistant coatings. 4,676,995, 6-30-87, Cl. 427-54.100.

Fabris, Hubert J.: *See—*
Hargis, Ivan G.; Fabris, Hubert J.; Livigni, Russell A.; Aggarwal, Sundar L.; Thomas, George B.; and Wilson, John A., 4,669,518, Cl. 152-209.00R.
Hargis, Ivan G.; Fabris, Hubert J.; Livigni, Russell A.; Aggarwal, Sundar L.; Thomas, George B.; and Wilson, John A., 4,670,502, Cl. 524-505.000.

Fabris Industrial Manufacturing Limited: *See—*
Fabris, Mario, 4,680,953, Cl. 72-250.000.

Fabris, Mario, to Fabris Industrial Manufacturing Limited. Roller entry guide relating to a rod mill. 4,680,953, 7-21-87, Cl. 72-250.000.

Fabris, Mario. Roller entry guide. 4,700,875, 10-20-87, Cl. 226-189.000.

Fabrizi, Paolo; Provvedi, Alessandro; and Tarli, Paolo, to Sclavo, S.p.A. Gel composition for determining the fibrinogen content in plasma by electroimmunodiffusion. 4,666,864, 5-19-87, Cl. 436-516.000.

Fabry, Jochen: *See—*
Lung, Dieter; Kluft, Werner; Fabry, Jochen; Wittkopp, Helmut; Dombrowski, Theodor; and Klosterhalfen, Hartwig, 4,711,146, Cl. 82-1.00C.

Fabry, John J. Exercise garment. 4,684,123, 8-4-87, Cl. 272-119.000.

Fabyan, Joseph: *See—*
Kerns, John A.; Stone, Roger R.; and Fabyan, Joseph, 4,698,197, Cl. 376-142.000.

Facchini, Edoardo; and Ben, Ivo D., to Gregoris Photo Equipment s.n.c. di Giuseppe Gregoris & C. Apparatus for mounting transparent slides. 4,665,681, 5-19-87, Cl. 53-520.000.

Facchini, Mauro: *See—*
Aldrovandi, Mauro; and Facchini, Mauro, 4,668,945, Cl. 340-621.000.

Facet Enterprises, Inc.: *See—*
Carleton, William A., 4,645,430, Cl. 417-359.000.
Giometti, Paul F., 4,715,239, Cl. 74-6.000.
Losey, Walter N.; and Giometti, Paul F., 4,712,435, Cl. 74-6.000.
Tallis, John R., Jr.; and Volino, Nicholas A., 4,695,735, Cl. 290-38.00R.
Volino, Nicholas A., 4,661,715, Cl. 290-48.000.
Whiting, James C., 4,645,887, Cl. 200-82.00E.
Wiernicki, Michael V., 4,662,827, Cl. 417-363.000.

Fachat, Gaston; Sistermann, Klaus; and Ungerer, Heinz-Jurgen, to Grunzweig & Hartmann und Glasfaser AG. Apparatus for producing mineral fibres from molten silicate by blast drawing. 4,698,086, 10-6-87, Cl. 65-16.000.

Fachin, Gino: *See—*
Marchesi, Sergio; and Fachin, Gino, 4,633,568, Cl. 29-452.000.
Marchesi, Sergio; and Fachin, Gino, 4,702,282, Cl. 138-176.000.

Faciane, Gregory R.; and Faciane, Maxine M., to Faciane, Gregory R.; Faciane, Maxine M.; Faciane, Louis H.; and Faciane, Ralph G., a part interest. Lottery ticket processor. 4,654,923, 4-7-87, Cl. 15-236.00R.

Faciane, Louis H.: *See—*
Faciane, Gregory R.; and Faciane, Maxine M., 4,654,923, Cl. 15-236.00R.

Faciane, Maxine M.: *See—*
Faciane, Gregory R.; and Faciane, Maxine M., 4,654,923, Cl. 15-236.00R.

Faciane, Ralph G.: *See—*
Faciane, Gregory R.; and Faciane, Maxine M., 4,654,923, Cl. 15-236.00R.

Facklam, Roger L., to United States of America, Air Force. Active dispersion control for a Doppler broadened laser. 4,635,266, 1-6-87, Cl. 372-32.000.

Facoetti, Hugues: *See—*
Broussoux, Dominique; Facoetti, Hugues; and Micheron, Francois, 4,670,074, Cl. 156-198.000.

Facom: *See—*
Augendre, Claude; Rapidel, Jean-Loup; and Hennes, Jacques, 4,712,425, Cl. 73-460.000.
Flavigny, Jean-Pierre, 4,645,276, Cl. 312-257.0SK.

Factor, Arnold; and Patel, Gautam A., to General Electric Company. Abrasion and UV resistant coating compositions. 4,680,232, 7-14-87, Cl. 428-412.000.

Factory Mutual Research Corporation: *See—*
de Ris, John; and Markstein, George H., 4,637,735, Cl. 374-8.000.
Dundas, Robert E.; and Tatar, Fred W., 4,692,701, Cl. 324-240.000.
Newman, Jeffrey S., 4,667,106, Cl. 250-382.000.

Fadem, Richard J., to NCR Corporation. Voltage offset device and method for providing a smooth scroll for a raster scan cathode ray tube display. 4,654,650, 3-31-87, Cl. 340-726.000.

Fadler, Kurt, to Fichtel & Sachs AG. Disengaging device for a double friction clutch. 4,650,054, 3-17-87, Cl. 192-85.0CA.

Fadley, Thomas C. Suspended sheet-material support weight. 4,646,997, 3-3-87, Cl. 248-201.000.

Fadner, Thomas A.; Harenza, Edward R.; Hycner, Stanley H.; and Robinson, Nelson M., to Rockwell International Corporation. Keyless inking system for offset lithographic printing press. 4,690,055, 9-1-87, Cl. 101-451.000.

Fadner, Thomas A.: *See—*
Scribano, Gino A.; Fadner, Thomas A.; and Goldberg, Ira B., 4,658,207, Cl. 324-61.00P.

Faes, Franciscus C. M.; Van Gastel, Josephus M. M.; Smolders, Jozef G. H. M.; Theelen, Hubertus J.; and Verberne, Petrus A. C., to U.S. Philips Corporation. Device for feeding electronic components packed in tape to a pick-up position. 4,657,158, 4-14-87, Cl. 221-25.000.

Faes, Franciscus C. M.; van de Ven, Johannes T. A.; Verberne, Petrus A. C.; and Smolders, Jozef G. H. M., to U.S. Philips Corporation. Apparatus for placing electronic and/or electrical components on a substrate. 4,664,591, 5-12-87, Cl. 414-753.000.

Faessen, Louis M. H.; and Khoe, Giok D., to U.S. Philips Corp. Viewer having head mounted display unit for cinerama pictures. 4,695,129, 9-22-87, Cl. 350-96.250.

FAG Kugelfischer Georg Schafer (KGaA): *See—*
Bayer, Oswald; Grehn, Martin; and Planek, Werner, 4,714,358, Cl. 384-470.000.

Dittner, Adam; Hutterer, Werner; and Sauer, Joachim, 4,691,813, Cl. 192-13.00R.

Dreschmann, Peter; and Walter, Wilhelm, 4,650,195, Cl. 277-50.000.

Dreschmann, Peter; and Walter, Wilhelm, 4,695,062, Cl. 277-27.000.

Heim, Edgar; and Voll, Horst, 4,665,333, Cl. 310-154.000.

Mittendorf, Gerhard, 4,684,005, Cl. 192-98.000.

Neese, Gerhard, 4,707,152, Cl. 384-572.000.

Paul, Gunther; and Patel, Kirit, deceased, 4,633,661, Cl. 57-280.000.

Rudiger, Eckhart, 4,707,037, Cl. 303-22.00R.

Voll, Horst; and Meyer, Manfred, 4,713,704, Cl. 360-97.000.

Fagard, Pierre: *See—*

Dubois, Marcel; and Fagard, Pierre, 4,710,766, Cl. 340-784.000.

Fagerlund, Goran, to Cementa AB. Corrosion-proof concrete. 4,668,541, 5-26-87, Cl. 427-397.700.

Fago, Anthony; and Lobo, Alfred D., to Alfred D. Lobo & Co., L.P.A. Disposable absorbent device for post-urinary drip. 4,668,229, 5-26-87, Cl. 604-327.000.

Fahet NV: *See—*

Raubenheimer, Johann N., 4,656,683, Cl. 15-1.700.

Rief, Dieter, 4,683,599, Cl. 4-490.000.

Fahey, Brian W. Running shoe. 4,689,898, 9-1-87, Cl. 36-43.000.

Fahim, Mostafa S. Composition and process for promoting epithelial regeneration. 4,711,780, 12-8-87, Cl. 424-145.000.

Fahl, Richard L., to Dover Corporation. Poppet valve assembly and method of making same. 4,693,268, 9-15-87, Cl. 137-219.000.

Fahlbusch, Dieter: *See—*

Knakowski, Rolf; and Fahlbusch, Dieter, 4,679,026, Cl. 340-63.000.

Fahlen, Nils, to ASEA Aktiebolag. Series capacitor equipment. 4,652,963, 3-24-87, Cl. 361-16.000.

Fahmy, Mohamed A. H., to Du Pont de Nemours, E. I., and Company. N-formyl phosphonamidothioates as pesticides. 4,683,224, 7-28-87, Cl. 514-120.000.

Fahmy, Mohamed A. H., to Du Pont de Nemours, E. I., and Company. Certain N-(substituted-aminosulfinyl)phosphonamidothioate and dithioate pesticides. 4,686,209, 8-11-87, Cl. 514-116.000.

Fahnders, Barbara A.: *See—*

Fahnders, Jesse L.; and Fahnders, Barbara A., 4,654,929, Cl. 16-261.000.

Fahnders, Jesse L.; and Fahnders, Barbara A. Hinge re-build assembly. 4,654,929, 4-7-87, Cl. 16-261.000.

Fahnestock, E. Carl. Quick music notes slide rule. 4,677,893, 7-7-87, Cl. 84-473.000.

Fahnler, Friedrich: *See—*

Meyer, Rolf-Volker; Fahnler, Friedrich; Dhein, Rolf; and Michael, Dietrich, 4,684,746, Cl. 564-38.000.

Fahnrich, Hans-Jurgen; Roll, Ulrich; and Statnic, Eugen, to Patent-Truehand-Gesellschaft fur Electrische Gluhlampen m.b.H. Discharge lamp starting circuit particularly for compact fluorescent lamps. 4,647,817, 3-3-87, Cl. 315-104.000.

Fahnrich, Hans-Jurgen; and Rasch, Erhard, to Patent-Treuhand-Gesellschaft fur elektrische Gluhlampen mbH. Accessory circuit structure for a low-pressure discharge lamp, typically fluorescent lamp. 4,656,395, 4-7-87, Cl. 315-57.000.

Fahr-Bucher GmbH: *See—*

Gaigl, Karl J., 4,712,437, Cl. 74-50.000.

Fahrenkrug, Anne M.: *See—*

Ellis, Louise C.; Fahrenkrug, Anne M.; Basten, Julie T.; and Milner, James D., 4,701,177, Cl. 604-385.00A.

Fahrion, Otmar. Supporting device for a data displaying unit. 4,659,048, 4-21-87, Cl. 248-285.000.

Fahrion, Otmar. Chain conveying unit. 4,664,253, 5-12-87, Cl. 198-851.000.

Fahrner, Wolfgang: *See—*

Braunig, Dietrich; Knoll, Meinhard; Laschinski, Joachim; and Fahrner, Wolfgang, 4,663,830, Cl. 29-576.00B.

Fahrzeugbau Langendorf GmbH & Co., KG: *See—*

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Fai, Cheung K.: *See—*

Rubik, Erno; and Fai, Cheung K., 4,685,681, Cl. 273-155.000.

Faick, John C.: *See—*

Richter, Kenneth A.; Sohigian, M. D.; and Faick, John C., 4,647,845, Cl. 324-57.00R.

Faigl, Ferenc: *See—*

Acs, Maria; Faigl, Ferenc; and Fogassy, Elemer, 4,642,205, Cl. 260-501.170.

Faijersseon, Sven I.: *See—*

Andreasson, Bo C.; and Faijersseon, Sven I., 4,648,375, Cl. 123-602.000.

Fail, Jean-Pierre, to Institut Francais du Petrole. Process for optimizing the frequency spectrum of pulses emitted by an emission device comprising several seismic implosion forces. 4,712,198, 12-8-87, Cl. 367-23.000.

Failes, Michael, to Canadian Instrumentation and Research Limited. Optical contact evanescent wave fiber optic coupler. 4,688,882, 8-25-87, Cl. 350-96.150.

Failes, Michael, to Canadian Instrumentation and Research Limited. Method of producing polished block type, single mode, evanscent wave directional couplers by means of mass production of the coupler halves. 4,707,201, 11-17-87, Cl. 156-64.000.

Failla, Stephen J., to Ethicon, Inc. Two-piece tissue fastener with deformable retaining receiver. 4,693,248, 9-15-87, Cl. 128-334.00C.

Failla, Stephen J.: *See—*

Dorband, Glen C.; Liland, Alfred; Menezes, Edgar; Steinheuser, Peter; Popadiuk, Nicholas M.; and Failla, Stephen J., 4,671,280, Cl. 128-334.00C.

Failor, Raymond A.: *See—*

Hayton, Eugene P.; Peters, Gerald; and Failor, Raymond A., 4,651,364, Cl. 5-60.000.

Peters, Gerald; Hayton, Eugene P.; and Failor, Raymond A., 4,641,385, Cl. 5-82.00R.

Fain, Earl. Tape measure. 4,649,649, 3-17-87, Cl. 33-138.000.

Fainstein, Victor: *See—*

Lopez-Berestein, Gabriel; Fainstein, Victor; Hersh, Evan M.; Hopfer, Roy L.; Juliano, Rudolph L.; Mehta, Kapil; and Mehta, Reeta, 4,663,167, Cl. 514-37.000.

Fair, David L.; Dean, Robert A.; and Sangster, Arlon G., to Olin Corporation. Electrolytic halogenator device. 4,714,534, 12-22-87, Cl. 204-269.000.

Fair, David L.: *See—*

Woodard, Kenneth E., Jr.; Dean, Robert A.; Fair, David L.; and Fister, Julius C., Jr., 4,695,359, Cl. 204-255.000.

Fair, Delbert W., to Conoco Inc. Marine shear wave vibrator. 4,705,137, 11-10-87, Cl. 181-120.000.

Fair, Delbert W.: *See—*

Cole, Jack H.; and Fair, Delbert W., 4,641,725, Cl. 181-119.000.

Fair, Kenneth E.; and Campbell, Charles M., to Ampex Corporation. Single piece tape reel and assembly. 4,715,558, 12-29-87, Cl. 242-199.000.

Fair, Timothy K.: *See—*

Mudge, Richard C.; and Fair, Timothy K., 4,661,389, Cl. 428-110.000.

Fair, William R., to Memorial Hospital for Cancer and Allied Diseases. Non-surgical method for suppression of tumor growth. 4,671,254, 6-9-87, Cl. 128-1.00R.

Fairbanks, William E.: *See—*

Smith, Wallis W.; and Fairbanks, William E., 4,653,957, Cl. 404-114.000.

Fairchild Camera & Instrument Corp.: *See—*

Chen, Cheng-wei, 4,658,287, Cl. 358-48.000.

Cline, Ronald L.; and Campbell, John G., 4,651,038, Cl. 307-591.000.

Damouny, Nabil G.; Huang, Min-Siu; Wilnai, Dan; and Mor, Yeshayahu, 4,713,750, Cl. 364-200.000.

Kuo, James R., 4,712,233, Cl. 379-386.000.

Lee, Keibock; and Dvorak, Robert V., 4,686,628, Cl. 364-481.000.

Lehrer, William I., 4,654,269, Cl. 428-428.000.

Richardson, Neil, 4,706,019, Cl. 324-158.00R.

Steffe, Will C.; and Wen, David D., 4,675,549, Cl. 307-311.000.

Thomas, Michael E.; Vora, Madhukar B.; and Kapoor, Ashok K., 4,640,004, Cl. 29-590.000.

Witkin, Andrew P., 4,658,372, Cl. 364-550.000.

Fairchild Filter Corporation: *See—*

Moorehead, Jack F.; and Campbell, Richard S., Sr., 4,678,564, Cl. 210-108.000.

Fairchild Incorporated: *See—*

Wilcox, Arnold G., Jr.; and Shah, Gopal, 4,646,906, Cl. 198-303.000.

Fairchild Industries, Inc.: *See—*

Berry, Thomas G., 4,666,107, Cl. 244-173.000.

Kramer, Richard E., 4,651,480, Cl. 52-108.000.

Fairchild International, Inc.: *See—*

Wilcox, Arnold G., Jr.; and Plumley, Roger D., 4,669,560, Cl. 180-9.100.

Fairchild, Jeffery; Heitz, Steven A.; and Symington, John, to Sundstrand Corporation. High temperature seal and turbine mount. 4,696,618, 9-29-87, Cl. 415-119.000.

Fairchild, Kim M.: *See—*

Graf, Carl P.; Fairchild, Kim M.; Fant, Karl M.; Rusler, George W.; and Schroeder, Michael O., 4,645,459, Cl. 434-43.000.

Fairchild Medical Systems, Inc.: *See—*

Fairchild, Richard A., 4,679,217, Cl. 378-97.000.

Fairchild, Richard A., to Fairchild Medical Systems, Inc. X-ray cassette structure. 4,679,217, 7-7-87, Cl. 378-97.000.

Fairchild, Robert G.: *See—*

Blum, Victor; Crabtree, Timothy L.; and Fairchild, Robert G., 4,654,727, Cl. 360-71.000.

Fairchild, Ronald C., to Kaiser Optical Systems, Inc. Holographic multi-combiner for head-up display. 4,688,879, 8-25-87, Cl. 350-3.700.

Fairchild Semiconductor: *See—*

Lam, Nim C., 4,686,394, Cl. 307-455.000.

Lam, Nim C., 4,686,674, Cl. 370-112.000.

Fairchild Semiconductor Corporation: *See—*

Aronowitz, Sheldon, 4,689,667, Cl. 357-63.000.

Baynes, Martin J., 4,636,825, Cl. 357-23.140.

Brueggeman, Michael; Clark, James W.; and Phy, William S., 4,653,175, Cl. 29-574.000.

Daniels, Wilbert E.; and Fraser, Dana J., 4,680,613, Cl. 357-72.000.

Delfino, Michelangelo; and Cairns, Bruce R., 4,686,113, Cl. 427-45.100.

Ferris, David A.; and Caswell, Richard J., 4,661,727, Cl. 307-456.000.

Hannington, Geoff, 4,654,549, Cl. 307-475.000.

Hannington, Geoff, 4,677,320, Cl. 307-475.000.

Herlein, Richard F., 4,635,256, Cl. 371-1.000.

Herlein, Richard F.; Davis, Jeffrey A.; and Cotriss, E. James, 4,675,562, Cl. 307-602.000.

Herndon, William H., 4,713,560, Cl. 307-455.000.

- Holland, Alex, 4,710,747, Cl. 340-347.0AD.
- Krishna, Surinder, 4,639,274, Cl. 148-1.500.
- Krishna, Surinder; and Egan, Kulwant, 4,648,909, Cl. 148-1.500.
- Kurtz, John A.; Cousens, Donald E.; and Dufour, Mark D., 4,685,631, Cl. 242-47.000.
- Lam, Nim C., 4,695,749, Cl. 307-455.000.
- Lehrer, William I.; and Crossley, P. Anthony, 4,704,342, Cl. 430-5.000.
- Necoechea, R. Warren, 4,647,796, Cl. 307-360.000.
- Phy, William S., 4,674,808, Cl. 439-108.000.
- Phy, William S., 4,688,075, Cl. 357-80.000.
- Riley, Paul E.; Ray, Alan B.; and Bayer, Paul, 4,676,868, Cl. 156-643.000.
- Schinabeck, John; and Murdock, James R., 4,635,259, Cl. 371-20.000.
- Schinabeck, John, 4,637,020, Cl. 371-20.000.
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- Shapiro, Garry R.; and Meyer, Charles S., 4,661,948, Cl. 370-77.000.
- Thomas, Michael E.; and Brown, Robert L., 4,670,091, Cl. 156-643.000.
- Urschel, William J.; and Sloane, Edwin A., 4,673,917, Cl. 340-347.0CC.
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  - Mariol, James F., 4,695,250, Cl. 433-5.000.
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  - Mazumder, Ali T.; and Fairey, Brian M., 4,673,141, Cl. 242-75.470.
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  - Parramore, Thomas S., 4,663,793, Cl. 14-2.400.
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- Fairfield Industries: *See—*
  - Smither, Miles A., 4,704,584, Cl. 330-86.000.
- Fairfield, Robert C.: *See—*
  - Coulthart, Kenneth B.; Fairfield, Robert C.; and Mortenson, Robert L., 4,641,102, Cl. 328-62.000.
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  - Legrand, Guy; and Faivre, Michel, 4,635,095, Cl. 358-10.000.
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- Falchi, Fiorino, to General Electric Company. Snap-action bayonet-type fastening device for control and/or signalling units. 4,702,711, 10-27-87, Cl. 439-546.000.
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  - Sottini, Stefano; Brenci, Massimo; Falciai, Riccardo; and Russo, Vera, 4,707,172, Cl. 65-3.110.
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  - Schawann, Jean C.; Caumont, Jean P.; and Falcimaigne, Jean, 4,646,841, Cl. 166-355.000.
- Falck, Glenn H., to SWM Corporation. Seal former and flinger discharge assembly for use with apparatus for pressure feeding and pressure cooking a food product. 4,665,810, 5-19-87, Cl. 99-348.000.
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  - Alie, Enrique, 4,645,145, Cl. 244-118.500.
  - Ryan, James M.; and Alie, Enrique, 4,674,713, Cl. 244-122.00R.
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- Falcone, Dino: *See—*
  - Larizza, Pietro; and Falcone, Dino, 4,671,301, Cl. 131-231.000.
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  - Boeckx, Jack, 4,671,016, Cl. 49-501.000.
- Falconer, Ralph A., to Jandy Industries. Elastomer ball check valve. 4,681,139, 7-21-87, Cl. 137-537.000.
- Falconer, Ralph A.: *See—*
  - Johnson, Bruce R.; and Falconer, Ralph A., 4,691,732, Cl. 137-268.000.
- Faldella, Roberto: *See—*
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  - Lemone, Lou; Faletra, Salvatore; McDaniel, John R.; and Caldara, Steve, 4,685,057, Cl. 364-200.000.
- Falgout, Thomas E., Sr.; and Schoeffler, William N., to Team Engineering and Manufacturing, Inc. Line wrap power tongs. 4,715,253, 12-29-87, Cl. 81-57.140.
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- Falguieres, Alain: *See—*
  - Ozil, Maurice; and Falguieres, Alain, 4,682,285, Cl. 364-200.000.
- Falguieres, Hubert. Double piston alternating action pressing apparatus. 4,646,633, 3-3-87, Cl. 100-37.000.
- Falise, F. Ronald: *See—*
  - Antoszewski, Richard S.; Falise, F. Ronald; Sciulli, Francis J.; and Toto, Gregory M., 4,670,974, Cl. 29-701.000.
- Falk, Carl H., to Valmet Paper Machinery, Inc. Apparatus for cutting a paper web. 4,711,404, 12-8-87, Cl. 242-56.00R.
- Falk, Charles D.; and Davis, Lincoln R., to Lopat Industries, Inc. Composition to encapsulate toxic metal and/or organic pollutants from wastes. 4,687,373, 8-18-87, Cl. 405-128.000.
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  - Schunck, Richard A.; and Holzman, Richard W., 4,633,938, Cl. 165-47.000.
- Falk, David O., to Marathon Oil Company. Polymer gelation process for oil recovery applications. 4,688,639, 8-25-87, Cl. 166-295.000.
- Falk, Diane E.: *See—*
  - Allison, Ricardo A.; Gunter, John B.; Winkler, Clifford J.; Falk, Diane E.; and Chuang, Ray F., 4,649,609, Cl. 29-26.00A.

Falk, Edward J.; and Brombolich, Lawrence J., to Killark Electric Manufacturing Co. Explosion proof enclosure. 4,664,281, 5-12-87, Cl. 220-3.800.

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  Makhlouf, Joseph M.; Falk, Frederick A.; and Piccirilli, Robert M., 4,639,492, Cl. 525-54.420.
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Falk, Gerhard, to Robert Bosch GmbH. Control and energization circuit for a brushless d-c motor. 4,692,675, 9-8-87, Cl. 318-254.000.

Falk, Heinz, to Jenoptik Jena GmbH. Method and device for electrothermal atomization of a sample material. 4,660,976, 4-28-87, Cl. 356-312.000.

Falk, Herbert S.: *See—*
  Truckenbrod, Gregory R.; Christiansen, David A.; Falk, Herbert S.; Johnson, Richard A.; and Colclaser, Robert G., III, 4,663,725, Cl. 364-505.000.

Falk, Jerry: *See—*
  Bergins, Lewis A.; Amundson, Anthony P.; and Falk, Jerry, 4,691,314, Cl. 370-94.000.

Falk, John C.; and Kliever, Leland B., to Borg-Warner Chemicals, Inc. Graft copolymer - plasticized PVC blends as thermoplastic elastomers. 4,659,766, 4-21-87, Cl. 524-504.000.

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  Berglund, Bengt G.; Falk, Karl-Erik L.; Magnusson, Dan A.; Nilson, Nils B.; and Nilsson, Ake S., 4,695,272, Cl. 604-84.000.

Falk, Mervin L., to Cartrex. Temperature compensating closure for cartridges. 4,674,703, 6-23-87, Cl. 242-199.000.

Falk, Richard A. Insulative composition and method of making articles therefrom. 4,659,679, 4-21-87, Cl. 501-99.000.

Falk, Robert A.: *See—*
  Karydas, Athanasios; and Falk, Robert A., 4,647,284, Cl. 8-115.560.

Falk, Theodore J.; and Morris, Lawrence E., to Greatbatch Enterprises, Inc. Low power electromagnetic pump. 4,636,150, 1-13-87, Cl. 417-417.000.

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Falk, Timothy L.: *See—*
  Leber, David C.; and Falk, Timothy L., 4,694,572, Cl. 29-840.000.

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  Vogtlander, Alfred; and Vogtlander, Elsbeth, 4,636,192, Cl. 493-451.000.

Falkenroth, Heinz-Jurgen: *See—*
  Mahler, Gert; Dietz, Gunter; and Falkenroth, Heinz-Jurgen, 4,646,879, Cl. 180-90.000.

Falkenstein, Rudolf; Haberland, Detlef; Kaindl, Michael; Haltenorth, Helmut; Prussas, Herbert; and Taumberger, Franz, to Siemens Aktiengesellschaft. Glass fiber bushing through a wall opening of a housing and method of manufacture. 4,707,066, 11-17-87, Cl. 350-96.200.

Falkenstrom, Lee J.: *See—*
  Rolfe, Robert M.; and Falkenstrom, Lee J., 4,703,484, Cl. 371-25.000.

Falkiner, Raymond C. Dual vision welding helmet. 4,649,571, 3-17-87, Cl. 2-8.000.

Falkman, Richard J.; and Varvaro, Charles, to American Telephone and Telegraph Company; and AT&T Bell Laboratories. Method and apparatus for operating a display monitor. 4,677,430, 6-30-87, Cl. 340-723.000.

Falkoff, Daniel M.: *See—*
  Samson, Joseph E.; Wolff, Kenneth T.; Reid, Robert; Hendrie, Gardner C.; Falkoff, Daniel M.; Dynneson, Ronald E.; Clemson, Daniel M.; and Baty, Kurt F., 4,654,857, Cl. 371-68.000.

Fall, James C. Head and magazine loader assembly. 4,689,881, 9-1-87, Cl. 29-813.000.

Fall, James C. Driver apparatus. 4,706,380, 11-17-87, Cl. 29-813.000.

Fallas, Spyros, to Electropainting Sales Pty. Ltd. Paint booth assembly. 4,640,220, 2-3-87, Cl. 118-326.000.

Fallek, Samuel: *See—*
  Dorman, Richard A.; Kissinger, Curtis D.; Hoogenboom, Leo; Hull-Allen, Gregory; and Fallek, Samuel, 4,674,882, Cl. 356-373.000.

Faller, Rainer; and Landstorfer, Friedrich, to M.A.N. Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Device including plural wire detecting coils having faulty coil sensing capabilities for the directional guidance of the trackless vehicle. 4,665,369, 5-12-87, Cl. 324-326.000.

Fallert, Joe E., to FMC Corporation. Work set up method and apparatus. 4,645,391, 2-24-87, Cl. 409-225.000.

Fallier, Charles N., Jr.; and Lester, James N., to GTE Laboratories, Inc.; and GTE Products Corporation. Method and apparatus for starting high intensity discharge lamps. 4,680,509, 7-14-87, Cl. 315-290.000.

Fallier, Charles N., Jr.: *See—*
  Byszewski, Wojciech W.; Fallier, Charles N., Jr.; and Lester, James N., 4,713,587, Cl. 315-289.000.

Fallis, Mary A.; Urso, Joseph F.; and Urso, Samuel J. Pocket seat cushion. 4,708,393, 11-24-87, Cl. 297-452.000.

FallLine Corporation: *See—*
  York, Randall A.; and Gladding, Charles W., 4,651,450, Cl. 37-197.000.

Fallon, Merton R.; and Froehler, John, to Draft Systems, Inc. Structurally supported elastomer sealing element. 4,674,756, 6-23-87, Cl. 277-30.000.

Fallon, Timothy R.; and Smith, Jerry W., to Draft Systems, Inc. Tube support assembly. 4,666,109, 5-19-87, Cl. 248-50.000.

Fallows, Walter: *See—*
  Martin, Eugene J.; Tootle, James N.; Fallows, Walter; Lambert, Howard; and Vanderlaan, Robert D., 4,645,178, Cl. 251-229.000.

Falls, Jack L.; and Spector, George. Nail starter. 4,667,747, 5-26-87, Cl. 173-90.000.

Falotico, Robert: *See—*
  Bandurco, Victor T.; Bell, Stanley C.; Combs, Donald W.; Falotico, Robert; and Tobia, Alfonso J., 4,639,518, Cl. 544-285.000.
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  Bandurco, Victor T.; Bell, Stanley C.; Dodd, John H.; Falotico, Robert; Schwender, Charles F.; and Tobia, Alfonso J., 4,672,11 Cl. 544-286.000.
  Bandurco, Victor T.; Schwender, Charles F.; Falotico, Robert; and Tobia, Alfonso J., 4,711,883, Cl. 514-253.000.
  Kanojia, Ramesh M.; Falotico, Robert; Tobia, Alfonso J.; and Press, Jeffery B., 4,714,705, Cl. 514-309.000.

Falstrup, David C., to Hitco. Retracting tensioning mechanism for dispensing an elongated member. 4,646,984, 3-3-87, Cl. 242-54.00R.

Faltejsek, Karl: *See—*
  Cvitas, Vilim; Faltejsek, Karl; Hanke, Reinhart; Janusch, Alois; and Larch, Gerhard, 4,685,899, Cl. 494-44.000.

Falter, Ronald C.: *See—*
  Alexander, Robert H.; Lawson, John R.; and Falter, Ronald C., 4,648,756, Cl. 408-9.000.

Faltermeier, Bernd: *See—*
  Jorgens, Reinhard; Faltermeier, Bernd; and Trautwein, Franz, 4,695,137, Cl. 350-521.000.

Faltin, Hans G., to Custom-Bilt Machinery, Inc. High speed on-line reshingling of printed products. 4,678,172, 7-7-87, Cl. 270-18.000.

Falwell, Bobby R.; and Wooley, Orval H. Waterbed rail cap. 4,710,99 12-8-87, Cl. 5-508.000.

Falz, Ulrich: *See—*
  Walter, Jurgen; Falz, Ulrich; and Lunke, Manfred, 4,708,514, Cl. 403-372.000.

Falzone, Timothy F.; and Schettino, Anthony J., to Polaroid Corporation. Film cassette. 4,685,791, 8-11-87, Cl. 354-277.000.

Falzoni, Pierino, to Officina Meccanica Fratelli Falzoni S.d.f. Multi-use machine for the application of small metallic and non-metallic workpieces or items and with total interchangeability of equipment and related fittings. 4,685,604, 8-11-87, Cl. 227-18.000.

Fam Tile Restoration Services, Ltd.: *See—*
  Mortimer, Francis J., 4,642,951, Cl. 52-145.000.

Famag Fahrzeug- und Maschinenhandelsgesellschaft m.b.H. Nfg. KG: *See—*
  Wachter, Johann, 4,707,875, Cl. 15-179.000.

Fambrough, David G. Line tightening mechanism. 4,700,434, 10-20-8 Cl. 24-71.200.

Fambrough, David G. Alternator and generator belt tensioning device. 4,715,844, 12-29-87, Cl. 474-130.000.

Fameccanica S.p.A.: *See—*
  Bianco, Carlo; Colleluori, Roberto; and De Sanctis, Egidio, 4,673,136, Cl. 241-280.000.

Familletti, Philip C., to Hoffmann-La Roche Inc. Air lift bioreactor. 4,649,117, 3-10-87, Cl. 435-313.000.

Fan, Cheng-Kuo, to Liang-Jr, Lee. Fluid flow regulator for intravenous feeding device. 4,640,306, 2-3-87, Cl. 137-390.000.

Fan, Jenn-Kang. Photoelectric control device which detects changes i light intensity. 4,658,129, 4-14-87, Cl. 250-214.00R.

Fan, John C. C.: *See—*
  Tsaur, Bor-Yeu; Fan, John C. C.; and Geis, Michael W., 4,670,08 Cl. 156-617.00R.

Fan Out Co., Ltd.: *See—*
  Yamaki, Chikara, 4,712,266, Cl. 15-167.100.

Fan, Tso Y.; and Byer, Robert L., to Board of Trustees, Leland J. Stanford University. Diode laser pumped co-doped laser. 4,701,92 10-20-87, Cl. 372-68.000.

Fan, Tzeng-Yuan. Apparatus for air compressing and dust collecting 4,636,230, 1-13-87, Cl. 55-274.000.

Fanberg, Victor V. Car door opening tool and method. 4,683,78 8-4-87, Cl. 81-15.900.

Fancher, James E., to John Fluke Mfg. Co., Inc. Guarded switches for component scanner. 4,670,663, 6-2-87, Cl. 307-113.000.

Fancher, Llewellyn W., to Stauffer Chemical Co. Phosphonodithioylacetyl phenyl aminoacid ethyl esters. 4,716,156, 12-29-87, Cl. 514-119.000.

Fancher, Llewellyn W.: *See—*
  Kogan, Marcelo; Dinizo, Stephen E.; and Fancher, Llewellyn W., 4,714,493, Cl. 71-99.000.

Fancher, Philip D., to ICI Americas Inc. Crossed beam high frequency anti-theft system. 4,700,179, 10-13-87, Cl. 340-572.000.

Fanciullo, Martin: *See—*
  Bourne, Richard C.; Fanciullo, Martin; and Bos, Willem, 4,693,08 Cl. 62-79.000.

Fandrich, Helmut E. Apparatus and method for collecting a tree top 4,662,414, 5-5-87, Cl. 144-335.000.

Fane, William J., to NI Industries, Inc. Drive mechanism for key operated electronic lock. 4,633,687, 1-6-87, Cl. 70-276.000.

Fanelli, Anthony J.; Maeland, Arnulf J.; Armbrust, Robert W.; and Rak, George, to Allied Corporation. Dehydrogenation reaction employing hydride forming metals, alloys and intermetallic compounds. 4,675,465, 6-23-87, Cl. 585-654.000.

Fanelli, Anthony J.: *See—*

Marsh, Gary B.; Fanelli, Anthony J.; Armor, John N.; and Zambri, Patrick M., 4,649,037, Cl. 423-338.000.

Marsh, Gary B.; Fanelli, Anthony J.; Armor, John N.; and Zambri, Patrick M., 4,713,233, Cl. 423-608.000.

Fanelli, Michael W.; and Masters, Edward R. Collapsible lantern. 4,646,213, 2-24-87, Cl. 362-180.000.

Fanelli, Ottorino, to Sigma-Tau Industrie Farmaceutiche Riunite S.p.A. Pharmaceutical composition comprising L-carnitine for the treatment of impaired cardiac function. 4,649,159, 3-10-87, Cl. 514-556.000.

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Fang, Alan, to Union Electric Corp. Self-propellable toy and arrangement for and method of controlling the movement thereof. 4,662,854, 5-5-87, Cl. 446-175.000.

Fang, Chang-Shui; Xi, Yao; Chen, Zhi-Xiong; Bhalla, Amar S.; and Cross, Leslie E., to Research Corporation. Pyroelectric crystals with high figures of merit. 4,648,991, 3-10-87, Cl. 252-1.000.

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Angell, Eric H.; Aprille, Thomas J.; Azaret, Juan O.; Fang, Rong-Chin; Lee, Byeong G.; Longwell, Brian C.; Sharper, Craig A.; and Spalink, Jan-Dieter, 4,716,561, Cl. 370-55.000.

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Wiktor, Tadeusz J.; Fanget, Bernard J.; Fournier, Pierre; and Montagnon, Bernard J., 4,664,912, Cl. 424-89.000.

anget, Paul, to Bennes Marrel. Supporting pillar for mines. 4,662,796, 5-5-87, Cl. 405-296.000.

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nini, Otto N.: *See—*

Sacarisen, Stephen P.; and Fanini, Otto N., 4,641,308, Cl. 371-16.000.

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Drescher, Gunter; Fankhanel, Gerhard; and Gnirk, Wolfgang, 4,715,588, Cl. 267-122.000.

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nn, Yaw-Shin; and Wu, Rong-Faa, to Tong Lung Metal Industry Co., Ltd. Duplex latch bolt mechanism. 4,711,477, 12-8-87, Cl. 92-169.140.

iner, John C.; and Snyder, Warren E., to Dresser Industries, Inc. Prechamber fuel control system. 4,638,777, 1-27-87, Cl. 123-277.000.

nin, Loyd W.: *See—*

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Malpass, Dennis B.; Fannin, Loyd W.; Crapo, Clark C.; and Triplett, Kelly B., 4,707,462, Cl. 502-153.000.

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Matthews, Gordon H.; Tansil, Thomas B.; and Fannin, Michael L., 4,640,991, Cl. 379-88.000.

Matthews, Gordon H.; Tansil, Thomas B.; and Fannin, Michael L., 4,652,700, Cl. 379-89.000.

in, Richard C., to Allied Corporation. Power take-off control with king brake interlock. 4,657,311, 4-14-87, Cl. 303-71.000.

n, Wayne V.; and Buchanan, Harry C., Jr., to General Motors rporation. Hydraulic damper for vehicles with variable orifice on valving for varying damping force. 4,685,545, 8-11-87, Cl. -299.000.

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ruckemeyer, William C.; Buchanan, Harry C., Jr.; and Fannin, Wayne V., 4,644,200, Cl. 310-43.000.

g, Roy G.: *See—*

over, Bobby R.; and Fanning, Roy G., 4,647,107, Cl. 297-124.000.

we, Hew D.; and Conway, John K. Method of and apparatus for g a container with gas. 4,705,082, 11-10-87, Cl. 141-4.000.

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der, Reiner; Teubel, Johannes; Schuster, Herbert; and Fanslau, Christine, 4,680,153, Cl. 264-44.000.

Richard L.; and Kennedy, William L., to Whirlpool Corporation. Balancing ring and attachment means for automatic washer. 545, 3-3-87, Cl. 68-23.200.

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Bean, David B.; and Fanson, Richard L., 4,656,847, Cl. 68-23.200.

Fansteel Inc.: *See—*

Emmerich, Kenneth C., 4,678,238, Cl. 299-81.000.

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Fant, Karl M.; and Ferguson, Dennis D., to Honeywell Inc. Two axis fast access memory. 4,667,190, 5-19-87, Cl. 340-747.000.

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Graf, Carl P.; Fairchild, Kim M.; Fant, Karl M.; Rusler, George W.; and Schroeder, Michael O., 4,645,459, Cl. 434-43.000.

Fanti, Cristoforo; Travaglio, Gianclaudio; Ferrario, Luciano; and Moscatelli, Saverio, to Alfa Romeo Auto S.p.A. Control apparatus for a vehicle with disengageable four-wheel drive. 4,714,127, 12-22-87, Cl. 180-233.000.

Fantini, Amedeo A.: *See—*

Kirby, Jane P.; Fantini, Amedeo A.; Borders, Donald B.; Testa, Raymond T.; and Martin, John H. E. J., deceased, 4,650,765, Cl. 435-254.000.

Fantini, Giuliano: *See—*

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Lucci, Roberto; and Orlandini, Paolo, 4,697,846, Cl. 297-298.000.

Fantucci, Mario: *See—*

Chiarino, Dario; Carenzi, Angelo; Della Bella, Davide; and Fantucci, Mario, 4,638,003, Cl. 514-255.000.

Fantuzzo, Joseph, to Xerox Corporation. Particle level indicator. 4,682,574, 7-28-87, Cl. 355-3.0DD.

Fanuc Ltd.: *See—*

Amemiya, Yoichi; Sogabe, Masatoyo; and Tagami, Kiyoshi, 4,697,114, Cl. 310-156.000.

Aso, Toshiyuki; and Ishibashi, Tamotu, 4,705,932, Cl. 219-69.00V.

Aso, Toshiyuki; and Kinoshita, Hiroshi, 4,707,580, Cl. 219-69.00W.

Aso, Toshiyuki; and Ishibashi, Tamotu, 4,711,981, Cl. 219-69.00W.

Fujioka, Yoshiki; and Hirota, Mitsuhiko, 4,641,069, Cl. 318-625.000.

Fujioka, Yoshiki; and Shinohara, Tatsuo, 4,651,266, Cl. 363-39.000.

Fujioka, Yoshiki; and Kouno, Shinichi, 4,672,287, Cl. 318-800.000.

Fujioka, Yoshiki, 4,677,540, Cl. 363-144.000.

Fujioka, Yoshiki; and Tokuoka, Hiroshi, 4,703,262, Cl. 324-208.000.

Fukuyama, Hiroomi, 4,706,002, Cl. 318-568.000.

Hattori, Kiyoshi; and Usuda, Eiji, 4,685,053, Cl. 364-184.000.

Hattori, Seiichi; and Kanda, Kunio, 4,652,994, Cl. 364-200.000.

Ikeda, Yoshiaki, 4,646,228, Cl. 364-192.000.

Ikeda, Yoshiaki, 4,661,812, Cl. 340-799.000.

Ikeda, Yoshiaki, 4,663,730, Cl. 364-900.000.

Ikeda, Yoshiaki; and Kuwasawa, Mitsuru, 4,682,167, Cl. 340-825.230.

Inaba, Yoshiharu, 4,693,676, Cl. 425-145.000.

Inaba, Yoshiharu, 4,695,237, Cl. 425-135.000.

Inaba, Yoshiharu, 4,696,532, Cl. 425-150.000.

Inoue, Michiya; Obara, Haruki; and Izumiya, Shunzo, 4,681,997, Cl. 219-69.00C.

Ishikawa, Yasushi; and Fukuroi, Takeshi, 4,642,044, Cl. 425-593.000.

Isobe, Shinichi; and Yonekura, Mikio, 4,635,183, Cl. 364-141.000.

Izumiya, Shunzo; Okuyama, Yuji; and Ito, Masaya, 4,689,457, Cl. 219-69.00W.

Kagawa, Yoshimasa; and Nakazono, Kazushige, 4,669,066, Cl. 365-229.000.

Kawada, Shigeki; Amemiya, Yoichi; Sogabe, Masatoyo; and Iwamatsu, Noboru, 4,661,736, Cl. 310-156.000.

Kawada, Shigeki; Amemiya, Yoichi; Sogabe, Masatoyo; and Sugahara, Katsuya, 4,663,550, Cl. 310-93.000.

Kawada, Shigeki; Amemiya, Yoichi; Sogabe, Masatoyo; and Iwamatsu, Noboru, 4,700,097, Cl. 310-162.000.

Kawada, Shigeki; Amemiya, Yoichi; Sogabe, Masatoyo; and Kumagai, Kazushi, 4,714,852, Cl. 310-156.000.

Kawamura, Hideaki; Miyata, Mitsuto; and Fujibayashi, Kentaro, 4,652,804, Cl. 318-590.000.

Kawamura, Hideaki; and Otsuki, Toshiaki, 4,684,861, Cl. 318-567.000.

Kinoshita, Mitsuo; and Obara, Haruki, 4,685,064, Cl. 364-474.000.

Kinoshita, Mitsuo, 4,700,314, Cl. 364-475.000.

Kinoshita, Mitsuo, 4,703,146, Cl. 219-69.00W.

Kinoshita, Mitsuo, 4,713,517, Cl. 219-69.00W.

Kish, Hajimu; Seki, Masaki; Takegahara, Takashi; and Onishi, Yasushi, 4,706,201, Cl. 364-474.000.

Kishi, Hajimu; Tanaka, Kunio; and Takegahara, Takashi, 4,635,185, Cl. 364-191.000.

Kishi, Hajimu; Seki, Masaki; and Mizuno, Yutaka, 4,636,937, Cl. 364-191.000.

Kishi, Hajimu; Matsui, Mitsuo; and Matsuura, Hitoshi, 4,639,172, Cl. 409-80.000.

Kishi, Hajimu; Seki, Masaki; and Takegahara, Takashi, 4,642,754, Cl. 364-191.000.

Kishi, Hajimu; Tanaka, Kunio; and Takegahara, Takashi, 4,644,460, Cl. 364-171.000.

Kishi, Hajimu; Tanaka, Kunio; and Takegahara, Takashi, 4,654,651, Cl. 340-731.000.

Kishi, Hajimu; and Tanaka, Kunio, 4,659,265, Cl. 409-84.000.

Kishi, Hajimu; and Seki, Masaki, 4,660,148, Cl. 364-474.000.

Kishi, Hajimu; Tanaka, Kunio; and Takegahara, Takashi, 4,663,705, Cl. 364-191.000.

Kishi, Hajimu; Tanaka, Kunio; and Matsumura, Teruyuki, 4,669,041, Cl. 364-171.000.

Kishi, Hajimu; Seki, Masaki; and Mizuno, Yutaka, 4,676,674, Cl. 400-4.000.

Kishi, Hajimu; Seki, Masaki; and Mizuno, Yutaka, 4,677,543, Cl. 364-191.000.

Kishi, Hajimu; Seki, Masaki; and Takegahara, Takashi, 4,680,719, Cl. 364-474.000.

Kishi, Hajimu; and Tanaka, Kunio, 4,689,750, Cl. 364-474.000.

Kishi, Hajimu; and Tanaka, Kunio, 4,692,873, Cl. 364-474.000.

Kishi, Hajimu; Seki, Masaki; and Tanaka, Kunio, 4,697,249, Cl. 364-900.000.

Kishi, Hajimu; Sakakibara, Shinsuke; and Ito, Takayuki, 4,701,686, Cl. 318-632.000.

Kishi, Hajimu; Seki, Masaki; Takegahara, Takashi; and Onishi, Yasushi, 4,703,415, Cl. 364-170.000.

Kishi, Hajimu; Matsumura, Teruyuki; and Tanaka, Kunio, 4,703,441, Cl. 364-526.000.

Kishi, Hajimu; and Seki, Masaki, 4,704,687, Cl. 364-474.000.

Kishi, Hajimu; Sakakibara, Shinsuke; Ishikawa, Haruyuki; and Kanda, Yuuichi, 4,706,000, Cl. 318-568.000.

Kishi, Hajimu; Seki, Masaki; and Takegahara, Takashi, 4,706,200, Cl. 364-474.000.

Kiya, Nobuyuki; and Yoshino, Motoaki, 4,656,405, Cl. 318-571.000.

Kiya, Nobuyuki; and Yoshino, Motoaki, 4,680,697, Cl. 364-171.000.

Kiya, Nobuyuki, 4,697,872, Cl. 364-474.000.

Kiya, Nobuyuki; and Yoshino, Motoaki, 4,714,999, Cl. 364-474.000.

Kobari, Katsuo; and Ishida, Hiroshi, 4,680,525, Cl. 318-798.000.

Komiya, Hidetsugu, 4,692,856, Cl. 364-167.000.

Kurakake, Mitsuo; Sakamoto, Keiji; and Toyosawa, Yukio, 4,680,518, Cl. 318-561.000.

Kurakake, Mitsuo; Sakamoto, Keiji; and Toyosawa, Yukio, 4,695,780, Cl. 318-561.000.

Matsui, Mitsuo; and Matsumura, Teruyuki, 4,675,490, Cl. 219-69.00G.

Matsumura, Teruyuki; and Yukutomo, Masashi, 4,667,079, Cl. 219-69.00G.

Matsuura, Hitoshi, 4,646,225, Cl. 364-167.000.

Matsuura, Hitoshi; and Sakurai, Hiroshi, 4,709,482, Cl. 33-1.00M.

Nakano, Jiro, 4,691,131, Cl. 310-54.000.

Nakashima, Seiichiro; Toyoda, Kenichi; Torii, Nobutoshi; and Nihei, Ryo, 4,637,773, Cl. 414-732.000.

Nakashima, Seiichiro; and Torii, Nobutoshi, 4,647,753, Cl. 219-125.100.

Nakashima, Seiichiro; Torii, Nobutoshi; and Hamura, Masayuki, 4,652,203, Cl. 414-730.000.

Nakashima, Seiichiro; Toyoda, Kenichi; Nihei, Ryo; and Mizuno, Hitoshi, 4,688,984, Cl. 414-735.000.

Nakashima, Seiichiro; Toyoda, Kenichi; Sakakibara, Shinsuke; and Torii, Nobutoshi, 4,697,979, Cl. 414-786.000.

Nakashima, Seiichiro; Toyoda, Kenichi; Inagaki, Shigemi; and Ito, Susumu, 4,702,665, Cl. 414-730.000.

Nakashima, Seiichiro; Toyoda, Kenichi; and Torii, Nobutoshi, 4,706,001, Cl. 318-568.000.

Nakashima, Seiichiro; Toyoda, Kenichi; and Sakakibara, Shinsuke, 4,706,003, Cl. 318-568.000.

Nakashima, Seiichiro; Toyoda, Kenichi; Inagaki, Shigemi; and Otsuka, Kazuhisa, 4,712,972, Cl. 414-744.00R.

Obara, Haruki; and Aso, Toshiyuki, 4,638,140, Cl. 219-69.00W.

Obara, Haruki, 4,649,252, Cl. 219-69.00W.

Obara, Haruki, 4,654,497, Cl. 219-69.00C.

Obara, Haruki; Ito, Masaya; and Tonamura, Masashi, 4,678,884, Cl. 219-69.00P.

Obara, Haruki, 4,710,603, Cl. 219-69.00C.

Ota, Naoto, 4,647,826, Cl. 318-561.000.

Otake, Hiromasa, 4,710,119, Cl. 425-136.000.

Otsuki, Toshiaki, 4,646,247, Cl. 364-474.000.

Sakamoto, Keiji; and Kobayashi, Toshio, 4,703,245, Cl. 318-809.000.

Sakamoto, Keiji; and Kobayashi, Toshio, 4,703,246, Cl. 318-809.000.

Sasaki, Takao, 4,651,601, Cl. 83-13.000.

Shima, Atsushi; and Sasaki, Takao, 4,667,294, Cl. 364-474.000.

Takekoshi, Yoshitaka; and Ushiyama, Shigeyuki, 4,639,627, Cl. 310-156.000.

Toyoda, Kenichi; Miyashita, Hideo; Sakakibara, Shinsuke; and Naruo, Hatsumi, 4,647,827, Cl. 318-592.000.

Toyoda, Kenichi; Sakakibara, Shinsuke; Mizuno, Tooru; and Hara, Ryuichi, 4,698,777, Cl. 364-513.000.

Uchida, Hiroyuki, 4,704,523, Cl. 250-231.0SE.

Usuda, Eiji, 4,661,899, Cl. 364-171.000.

Yamasaki, Seiji, 4,676,730, Cl. 425-569.000.

Yamazaki, Etsuo; and Matsuura, Hitoshi, 4,703,239, Cl. 318-578.000.

Yamazaki, Etuo, 4,638,455, Cl. 364-900.000.

Yamazaki, Etuo, 4,654,570, Cl. 318-578.000.

Yamazaki, Etuo; and Yamaguchi, Masashi, 4,679,159, Cl. 364-560.000.

Yamazaki, Etuo, 4,688,179, Cl. 364-474.000.

Fanuc Ltd: *See—*

Kishi, Hajimu; Sakakibara, Shinsuke; and Karakama, Tatsuo, 4,700,118, Cl. 318-568.000.

FAR Research, Inc.: *See—*

Foster, Roland S.; and Ellis, Craig A., 4,644,076, Cl. 556-412.000.

Farace, Louis P., to Motorola, Inc. Safe and arming device. 4,677,913, 7-7-87, Cl. 102-215.000.

Farace, Louis P.: *See—*

Bai, Monty W.; Titus, John D.; and Farace, Louis P., 4,673,777, Cl. 200-61.45R.

Faraco, W. George: *See—*

Maney, George A.; O'Sullivan, Andrew W.; and Faraco, W. George, 4,674,939, Cl. 414-292.000.

Faraday Laboratories, Inc.: *See—*

Suresky, Arnold, 4,707,369, Cl. 426-417.000.

Farag, Samir F.; Kleinecke, John D.; and Smith, Randy M., to Siemens Energy & Automation, Inc. Solenoid-actuated mechanical interlock for a motor controller. 4,652,966, 3-24-87, Cl. 361-189.000.

Farag, Samir F.: *See—*

Kleinecke, John D.; Farag, Samir F.; and Little, Thomas R., 4,688,144, Cl. 361-345.000.

Farago, Steven, to Anico Research, Ltd. Inc.; and Rapitech Systems Inc., a part interest to each. Multiple connector interface. 4,686,506, 8-11-87, Cl. 340-347.0DD.

Farago, Zoltan; and Buschulte, Winfried, to Deutsche Forschungs- und Versuch-Sanstalt fur Luft- und Raumfahrt E.V. Method for desulfurizing flue gas in fuel oil firing systems. 4,692,319, 9-8-87, Cl. 423-242.000.

Farah, Boshra D.; and Woo, Jae L., to Unisearch Limited. Continuous measurement of yarn diameter and twist. 4,648,054, 3-3-87, Cl. 364-552.000.

Faramarzpour, Faramarz: *See—*

Borror, Alan L.; Ellis, Ernest W.; Faramarzpour, Faramarz; MacKenzie, Hugh R.; and McGowan, Donald A., 4,663,518, Cl. 235-487.000.

Faraone, Lorenzo, to RCA Corporation. Method of making a floating gate memory cell. 4,683,640, 8-4-87, Cl. 437-41.000.

Farb, Joseph: *See—*

Fang, Robert; Wang, Jerry; Liang, Victor; Farb, Joseph; and Hsu, Chung, 4,713,329, Cl. 437-29.000.

Farber, David A.: *See—*

Gruner, Ronald H.; Clancy, Gerald F.; Mundie, Craig J.; Schleimer, Stephen I.; Wallach, Steven J.; Bratt, Richard G.; Gavrin, Edward S.; Wallach, Walter A., Jr.; Ahlstrom, John K.; Richmond, Michael S.; Bernstein, David H.; Pilat, John F.; Farber, David A.; and Belgard, Richard A., 4,675,810, Cl. 364-200.000.

Farber, Heinrich: *See—*

Muller, Jurgen; Kastl, Alfons; and Farber, Heinrich, 4,641,940, Cl. 354-322.000.

Farber, Jurgen, to PKL Verpackungssysteme GmbH. Tear-open flap orifice on packs consisting of plastic-coated laminated material with a folded-round fillet-seam closure and a process for producing the tear-open flap orifice. 4,666,044, 5-19-87, Cl. 206-606.000.

Farber, Jurgen: *See—*

Strole, Ulrich; Farber, Jurgen; and Tholen, Arnold, 4,634,008, Cl. 206-628.000.

Farber, Karlheinz, to Bosch Siemens Hausgerate GmbH. Device for roasting coffee beans, especially green coffee beans in small quantities. 4,698,916, 10-13-87, Cl. 34-57.00A.

Farber, Karlheinz: *See—*

Aschberger, Matthias; Farber, Karlheinz; and Deininger, Anton, 4,646,797, Cl. 141-375.000.

Aschberger, Matthias; Farber, Karlheinz; and Deininger, Anton, 4,655,050, Cl. 62-200.000.

Aschberger, Matthias; Farber, Karlheinz; and Deininger, Anton, 4,656,933, Cl. 99-323.100.

Aschberger, Matthias; Farber, Karlheinz; Wolf, Ulrich; and Deininger, Anton, 4,665,809, Cl. 99-323.100.

Aschberger, Matthias; Farber, Karlheinz; and Deininger, Anton, 4,705,193, Cl. 222-146.600.

Eichler, Walter; Farber, Karlheinz; and Fischer, Elisabeth, 4,687,909, Cl. 219-502.000.

Farber, Milton: *See—*

Worns, John R.; Farber, Milton; and Hughes, David T., 4,686,172, Cl. 430-286.000.

Farbood, Mohamad I.; Morris, James A.; and Seitz, Eugene W., to International Flavors & Fragrances Inc. Preparation of naturally-occurring C2-C5 alkyl esters of C4-C5 carboxylic acids by means of fermentation of C5-C6 amino acids in the presence of C2-C5 alcohols. 4,657,862, 4-14-87, Cl. 435-135.000.

Farbood, Mohamad I.; Morris, James A.; and Seitz, Eugene W., to International Flavors & Fragrances Inc. Preparation of naturally occurring C_2–C_5 alkyl esters of C_4–C_5 carboxylic acids by means of fermentation of C_5–C_6 amino acids in the presence of C_2–C_5 alcohols. 4,686,307, 8-11-87, Cl. 560-205.000.

Farcasiu, Dan, to Exxon Research and Engineering Company. Method for isomerizing olefins using acidic composite catalysts. 4,672,147, 6-9-87, Cl. 585-668.000.

Farcasiu, Dan, to Exxon Research and Engineering Company. Composite catalyst for hydrocarbon conversion reactions. 4,673,769, 6-16-87, Cl. 585-458.000.

Farcasiu, Dan, to Exxon Research and Engineering Company. Process for activating a composite catalyst useful for hydrocarbon conversion reactions. 4,683,216, 7-28-87, Cl. 502-159.000.

Farcasiu, Malvina: *See—*

Adams, Priscilla L.; and Farcasiu, Malvina, 4,642,176, Cl. 208-111.000.

Farchemia S.p.A.: *See—*

Finotto, Martino, 4,642,367, Cl. 560-40.000.

Farco-Pharma GmbH: *See—*

Pleines, Peter; and Wolf, Erich, 4,696,297, Cl. 128-303.100.

- Farco, S.A.: *See—*
  - Muller, Claude, 4,657,170, Cl. 228-106.000.
- Fardi, Manouchehre: *See—*
  - Vasquez, Tony E.; Lyons, Kenneth P.; Raiszadeh, Moussa; and Fardi, Manouchehre, 4,670,245, Cl. 424-1.100.
- Fardin, Carlos E.: *See—*
  - Dominico, James; Fardin, Carlos E.; and Alessio, Ralph G., 4,669,376, Cl. 101-38.00A.
- Farel, Alain; Agobian, Manuel; and Le, Sinh, to Farel, Alain. Device for digitalizing graphical data. 4,697,050, 9-29-87, Cl. 178-18.000.
- Faress, James M., II: *See—*
  - Annunziata, Eugene J.; Faress, James M., II; and Stammely, Thomas E., 4,701,630, Cl. 307-112.000.
- Faret, Svein: *See—*
  - Elstein, Rick A.; Faret, Svein; and Gazzo, John J., 4,702,475, Cl. 273-1.0GC.
- Farfan de los Godos, Henry F., to 102160 Canada Inc. Lumbar spinal brace. 4,691,696, 9-8-87, Cl. 128-78.000.
- Farfor, James D.: *See—*
  - Debenham, Michael; and Farfor, James D., 4,677,757, Cl. 34-4.000.
- Farge, Daniel: *See—*
  - Aloup, Jean C.; Bouchaudon, Jean; Farge, Daniel; and James, Claude, 4,680,303, Cl. 514-336.000.
  - Barriere, Jean-Claude; Corbet, Jean-Pierre; Cotrel, Claude; Farge, Daniel; and Paris, Jean-Marc, 4,686,309, Cl. 564-355.000.
  - Fabre, Jean-Louis; Farge, Daniel; James, Claude; and Lave, Daniel, 4,684,658, Cl. 514-338.000.
- Fargo Manufacturing Company, Inc.: *See—*
  - Annas, Nick S., 4,645,867, Cl. 174-79.000.
- Farha, Floyd E.: *See—*
  - Miro, Nemesio D.; Farha, Floyd E.; and Capshew, Charles E., 4,680,351, Cl. 526-125.000.
- Farha, Floyd E., Jr., to Philips Petroleum Company. Removal of sulfur oxides from fluid streams. 4,636,371, 1-13-87, Cl. 423-244.000.
- Farha, Floyd E., Jr.: *See—*
  - Bjornson, Geir; Klendworth, Douglas D.; Gardner, Lloyd E.; and Farha, Floyd E., Jr., 4,655,906, Cl. 208-217.000.
  - Bjornson, Geir; Klendworth, Douglas D.; Gardner, Lloyd E.; and Farha, Floyd E., Jr., 4,693,991, Cl. 502-220.000.
- Farhoomand, Jam: *See—*
  - Pickett, Herbert M.; and Farhoomand, Jam. 4,682,053, Cl. 307-425.000.
- Faria, Carl R.; and Snouse, Thomas W., to Thermionics Laboratory, Inc. Seal structure for metal vacuum joint. 4,685,193, 8-11-87, Cl. 29-558.000.
- Faria, John R.: *See—*
  - Johnson, David E., 4,706,599, Cl. 114-361.000.
- Faria, Lawrence E., and Christopher, Earl H., to Raytheon Company. Seal-less cryogenic expander. 4,711,650, 12-8-87, Cl. 62-6.000.
- Faria, Sixdeniel, to GTE Products Corporation. Infrared cadmium selenide photoconductor and process of making same. 4,643,961, 2-17-87, Cl. 430-136.000.
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- Faria, Thomas G. Tachometer indicator with uncompensated magnetic return to zero. 4,646,007, 2-24-87, Cl. 324-146.000.
- Fariabi, Sepehr: *See—*
  - Grieger, Ronald D.; Fariabi, Sepehr; and Kolawole, Joshua O., 4,673,842, Cl. 313-292.000.
- Farias, Louis V.: *See—*
  - Srinivasagopalan, Rangarajan; and Farias, Louis V., 4,689,804, Cl. 375-99.000.
- Farias, Paulo D.; Mazzei, Francisco A. F.; Santo, Ubirajara do E.; and Werle, Paulo, to Icotron S.A. Industria de Componentes Electronicos. System driven by solar energy for pumping liquids. 4,644,256, 2-17-87, Cl. 323-299.000.
- Farid, Samir Y.: *See—*
  - Molaire, Michel F.; and Farid, Samir Y., 4,661,429, Cl. 430-70.000.
- Farin, Gunter; and Putz, Peter, to Erbe Elektromedizin GmbH. High-frequency electrosurgical unit with timed safety shut down interlock. 4,658,815, 4-21-87, Cl. 128-303.140.
- Farina, Alfred J., to Thermocatalytic Corporation. Method of surface hardening a ceramic article of manufacture. 4,650,622, 3-17-87, Cl. 264-64.000.
- Farina, Carlo: *See—*
  - Pinza, Mario; Farina, Carlo; Banfi, Silvano; and Pfeiffer, Ugo, 4,703,054, Cl. 514-386.000.
- Farina, James S.; and Cummings, Corbin L., to American Home Products Corporation. Preparation of 3-hydroxy-3-phenylbutan-2-one. 4,704,475, 11-3-87, Cl. 568-316.000.
- Farina, John J.; and O'Ishi, Takeo Z., to Bell & Howell Company. Digital film recorder, peripheral, and method for color hardcopy production. 4,704,699, 11-3-87, Cl. 364-525.000.
- Farinacci, Anthony L.; Witkin, Steven G.; and Yaniger, Christopher J., to United States of America, Air Force. Sabot/gun gas diverter. 4,656,919, 4-14-87, Cl. 89-14.600.
- Farkas, Frank J., to General Motors Corporation. Draincock and drain hole for a liquid vessel. 4,679,618, 7-14-87, Cl. 165-71.000.
- Farkas, Jozsef: *See—*
  - Ress, Piroska; Kiss, Istvan; Miltenyi, Geza; Strahl, Antal; Petro, Imre; Farkas, Jozsef; Biacs, Peter; Kozma, Istvanne; and Debreczeny, Istvan, 4,670,274, Cl. 426-240.000.
- Farleman, Ronald K.; Fetheroff, Charles W.; and Matay, Istvan M., to TRW Inc. O-ring inspection method. 4,634,273, 1-6-87, Cl. 356-73.000.
- Farley, Chrys M., to McDowell, Nancy C., a part interest. Jewelry chain separator. 4,651,541, 3-24-87, Cl. 63-2.000.
- Farley, Dennis C.: *See—*
  - Andrews, George E.; Davis, Paul C.; Farley, Dennis C.; Kravitz, Stanley H.; Meeker, Thrygve R.; Petersen, Owe G.; and Schelling, Arthur W., 4,715,049, Cl. 375-106.000.
- Farley, Harold C.; and Boles, Robert G., to Lockheed Corporation. Rotary launcher system for an aircraft. 4,681,013, 7-21-87, Cl. 89-1.815.
- Farley, James R.; and Flick, Robert H., to Westinghouse Electric Corp. Molded case circuit breaker with combined position indicator and handle barrier. 4,644,122, 2-17-87, Cl. 200-304.000.
- Farley, James R.: *See—*
  - Grunert, Kurt A.; and Farley, James R., 4,697,163, Cl. 335-174.000.
- Farley, Marvin: *See—*
  - Rose, Peter H.; and Farley, Marvin, 4,675,530, Cl. 250-492.200.
- Farley Metals, Inc.: *See—*
  - Foerster, George, 4,659,377, Cl. 75-96.000.
- Farley, Peter J.: *See—*
  - Mohlenbrock, William C.; Farley, Peter J.; Trummell, Donald E., Jr.; and Kahn, Theodore E., 4,667,292, Cl. 364-406.000.
- Farley, Radcliffe W.; Vaughn, Edward A.; Rodman, Clarke A.; and Homonoff, Edward C., to Allied Corporation. Fiber reinforced composites and method for their manufacture. 4,663,225, 5-5-87, Cl. 428-290.000.
- Farling, Gene M.; Parr, Jack E.; and Zolman, Arden R., to Zimmer, Inc. Method for constructing a surgical implant. 4,660,755, 4-28-87, Cl. 228-178.000.
- Farmaceutisk Laboratorium Ferring A/S: *See—*
  - Halskov, Soren, 4,664,256, Cl. 206-213.100.
  - Lund, Henning, 4,670,112, Cl. 204-74.000.
- Farmacon Research Corporation: *See—*
  - Niazi, Sarfaraz; and Shemesh, Alvin, 4,639,368, Cl. 424-48.000.
- Farmer, Donald J., to Colt Industries Inc. Lightning arrester system for underground loop distribution circuit. 4,700,258, 10-13-87, Cl. 361-39.000.
- Farmer, Frank E.: *See—*
  - Farmer, Fred W.; and Farmer, Frank E., 4,668,364, Cl. 204-224.00R.
- Farmer, Fred W.; and Farmer, Frank E. Portable electroplating apparatus. 4,668,364, 5-26-87, Cl. 204-224.00R.
- Farmer, James O., to Scientific-Atlanta, Inc. Scrambling and descrambling of television signals for subscription TV. 4,636,852, 1-13-87, Cl. 358-120.000.
- Farmer, James O., to Scientific Atlanta, Inc. Scrambling systems for CATV. 4,691,353, 9-1-87, Cl. 380-15.000.
- Farmer, James R., to ISC Technologies, Inc. Bomblet dispersion system for a cluster bomb. 4,638,736, 1-27-87, Cl. 102-393.000.
- Farmer, Kenneth R. Advertising copy display sign and stand combination. 4,660,310, 4-28-87, Cl. 40-607.000.
- Farmer, Peter H.: *See—*
  - Cartier, George E., and Farmer, Peter H., 4,654,179, Cl. 264-176.100.
- Farmer, Stanley E.; and Seaberg, Richard D., to Cascade Corporation. Forklift truck push-pull slipsheet handler for facilitating conversion of truck between slipsheet handling and pallet handling capabilities. 4,708,575, 11-24-87, Cl. 414-607.000.
- Farmer, Steven P., to Ex-Cell-O Corporation. Superabrasive grinding with variable spark-out and wheel dressing intervals. 4,653,235, 3-31-87, Cl. 51-165.870.
- Farmitalia Carlo Erba S.p.A.: *See—*
  - Alpegiani, Marco; Bedeschi, Angelo; Foglio, Maurizio; Franceschi, Giovanni; and Perrone, Ettore, 4,713,450, Cl. 540-214.000.
  - Bargiotti, Alberto; Zini, Pierangelo; Penco, Sergio; and Giuliani, Fernando, 4,672,057, Cl. 514-34.000.
  - Bargiotti, Alberto; Caruso, Michele; Suarato, Antonino; Penco, Sergio; and Giuliani, Fernando, 4,684,629, Cl. 514-34.000.
  - Battelli, Gaetano; Oldani, Diego; and Rigamonti, Alessandro, 4,670,262, Cl. 424-131.000.
  - Bernardi, Luigi; Temperilli, Aldemio; Mantegani, Sergio; Traquandi, Gabriella; and Salvati, Patricia, 4,657,914, Cl. 514-288.000.
  - Bernardi, Luigi; Temperilli, Aldemio; Bosisio, Germano; Traquandi, Gabriella; Eccel, Rosanna; Rossi, Alessandro; and Salvati, Patricia, 4,675,404, Cl. 544-238.000.
  - Bernardi, Luigi; Chiodini, Laura; Mantegani, Sergio; Ruggieri, Daniela; Temperilli, Aldemio; and Salvati, Patricia, 4,690,929, Cl. 514-288.000.
  - Cambiaghi, Stefano; Dallatomasina, Franco; Giardino, Pietro; Murador, Enzo; and Spreafico, Gaspare, 4,668,625, Cl. 435-70.000.
  - Carli, Fabio, 4,639,370, Cl. 424-80.000.
  - Doria, Gianfederico; Passarotti, Carlo; and Buttinoni, Ada, 4,665,084, Cl. 514-382.000.
  - Doria, Gianfederico; Romeo, Ciriaco; and Corno, Maria L., 4,670,457, Cl. 514-470.000.
  - Gatti, Gaetano; Oldani, Diego; Confalonieri, Carlo; and Gambini, Luciano, 4,675,311, Cl. 514-34.000.
  - Hanessian, Stephen; and Bedeschi, Angelo, 4,663,451, Cl. 540-304.000.
  - Oppici, Ernesto; Dallatomasina, Franco; and Giardino, Pietro, 4,656,304, Cl. 560-41.000.
  - Perrone, Ettore; Alpegiani, Marco; Zarini, Franco; Bruna, Costantino D.; and Franceschi, Giovanni, 4,713,378, Cl. 514-192.000.
  - Rosa, Onorino G.; Varesio, Carlo; and Oppici, Ernesto, 4,668,821, Cl. 562-443.000.

Scarponi, Ugo; Lazzarini, Anna M.; Toti, Daniela; and de Castiglione, Roberto, 4,716,228, Cl. 540-578.000.

Farmland Industries, Corporation: *See—*

Spangler, Harvey D.; and Lamb, Kenneth V., 4,681,603, Cl. 55-27.000.

Farmland Industries, Inc.: *See—*

Inglis, James L., 4,652,381, Cl. 210-724.000.

Mattson, David, 4,664,028, Cl. 99-487.000.

Farmos Group, Ltd.: *See—*

Karjalainen, Arto J.; and Kurkela, Kauko O. A., 4,639,464, Cl. 514-396.000.

Toivola, Reijo J.; Karjalainen, Arto J.; Kurkela, Kauko O. A.; Soderwall, Marja-Liisa; Kangas, Lauri V. M.; Blanco, Guillermo L.; and Sunduiqst, Hannu K., 4,696,949, Cl. 514-648.000.

Farmos-Yhtyma Oy: *See—*

Karjalainen, Arto J.; and Kurkela, Kauko O. A., 4,684,659, Cl. 514-396.000.

Karjalainen, Arto J.; Virtanen, Raimo E.; Karjalainen, Arja L.; and Kurkela, Kauko O. A., 4,689,339, Cl. 514-396.000.

Mikkola, Antti R.; Hakkinen, Heli-Riitta M.; Nuotio, Lasse O.; Nurmi, Esko V.; and Schneitz, Carita E., 4,657,762, Cl. 424-93.000.

Nurmi, Esko V.; Schneitz, Jarita E.; and Makela, Pirjo H., 4,689,226, Cl. 424-93.000.

Virtanen, Raimo E.; Karjalainen, Arto J.; Kurkela, Kauko O. A.; Vaha-Vahe, Antti T.; and Vainio-Kivinen, Outi M., 4,670,455, Cl. 514-396.000.

Farmwald, Paul M., to United States of America, Energy. Bifurcated method and apparatus for floating point addition with decreased latency time. 4,639,887, 1-27-87, Cl. 364-748.000.

Farneti, Michael P., to Solar Development, Inc. Spaced double surface sail construction. 4,699,073, 10-13-87, Cl. 114-102.000.

Farney, Michael K.; and Kile, Jackson. Coupler cover apparatus. 4,706,834, 11-17-87, Cl. 220-230.000.

Farng, Liehpao O.; and Horodysky, Andrew G., to Mobil Oil Corporation. Copper salts of sulfurized fatty acids as antioxidants. 4,715,974, 12-29-87, Cl. 252-46.400.

Farnsworth, Carl D. Method and arrangement of apparatus for cracking high boiling hydrocarbon and regeneration of solids used. 4,666,586, 5-19-87, Cl. 208-161.000.

Farnsworth, Richard G.: *See—*

Bullock, Donald F.; Simon, Francois Y.; and Farnsworth, Richard G., 4,665,358, Cl. 324-103.00R.

Farnum, Bruce W., to Certified Technologies Corporation. Flame retardant materials. 4,702,861, 10-27-87, Cl. 252-601.000.

Farnung, Winfried, to Hoechst Aktiengesellschaft. Process for the preparation of phosphonic acid esters. 4,655,883, 4-7-87, Cl. 204-59.00F.

Farnworth, Brian: *See—*

Cain, J. Bradley; and Farnworth, Brian, 4,705,717, Cl. 428-252.000.

Farnworth, Pauline; Garner-Gray, Peter F.; and Parslow, Michael W., to Lever Brothers Company. Free-flowing detergent powder compositions containing sodium perborate monohydrate. 4,650,599, 3-17-87, Cl. 252-99.000.

Faro Medical Technologies, Inc.: *See—*

Fraser, Gregory A.; and Raab, Simon, 4,649,934, Cl. 128-782.000.

Farooq, Saleem; Reinehr, Dieter; and Schmid, Werner, to Ciba-Geigy Corporation. Process and compositions for protecting keratinous material from attack by pests that feed on keratin, and novel esters. 4,681,593, 7-21-87, Cl. 8-128.00R.

Farooq, Saleem; Ehrenfreund, Josef; and Waespe, Hans-Rudolf, to Ciba-Geigy Corporation. Substituted 4,5-dihydro-1,3,4-thiadiazoles useful as insecticides. 4,699,913, 10-13-87, Cl. 514-333.000.

Farooque, Mohammad; and Novacco, Lawrence J., to Energy Research Corporation. Fuel cell apparatus with rapid start-up. 4,713,303, 12-15-87, Cl. 429-26.000.

Faroudja Laboratories, Inc.: *See—*

Faroudja, Yves C.; and Campbell, Jack J., 4,670,775, Cl. 358-36.000.

Faroudja, Yves C.; and Campbell, Jack J., 4,672,429, Cl. 358-36.000.

Faroudja, Yves C.; and Campbell, Jack J., 4,706,112, Cl. 358-31.000.

Faroudja, Yves C.; and Campbell, Jack J., to Faroudja Laboratories, Inc. Inter-dimensional chrominance noise reduction system. 4,670,775, 6-2-87, Cl. 358-36.000.

Faroudja, Yves C.; and Campbell, Jack J., to Faroudja Laboratories, Inc. Wide bandwidth chrominance noise reduction system. 4,672,429, 6-9-87, Cl. 358-36.000.

Faroudja, Yves C.; and Campbell, Jack J., to Faroudja Laboratories, Inc. Cross color suppression for quadrature modulated color television. 4,706,112, 11-10-87, Cl. 358-31.000.

Farquharson, Charles R. Milk bag pitcher. 4,671,427, 6-9-87, Cl. 222-83.500.

Farquharson, Graeme J.; Watson, Keith G.; and Bird, Graham J., to ICI Australia Limited. Herbicidal cyclohexane-1,3-dione derivatives. 4,639,267, 1-27-87, Cl. 71-98.000.

Farquharson, Graeme J.; Watson, Keith G.; and Bird, Graham J., to ICI Australia Limited. Herbicidal cyclohexane-1,3-dione derivatives. 4,643,763, 2-17-87, Cl. 71-98.000.

Farquharson, Graeme J.: *See—*

Bird, Graham J.; Farquharson, Graeme J.; and Watson, Keith G., 4,640,708, Cl. 71-98.000.

Bird, Graham J.; Farquharson, Graeme J.; Watson, Keith G.; and Whitelaw, Murray L., 4,664,693, Cl. 71-88.000.

Bird, Graham J.; Farquharson, Graeme J.; and Watson, Keith G., 4,680,400, Cl. 546-141.000.

Conway, Richard J.; Watson, Keith G.; and Farquharson, Graeme J., 4,704,157, Cl. 71-90.000.

Watson, Keith G.; Bird, Graham J.; and Farquharson, Graeme J., 4,652,303, Cl. 71-88.000.

Watson, Keith G.; and Farquharson, Graeme J., 4,659,362, Cl. 71-92.000.

Watson, Keith G.; Garson, Lynette A.; Bird, Graham J.; Cross, Lindsay E.; and Farquharson, Graeme J., 4,666,510, Cl. 71-103.000.

Farquharson, Grame J.: *See—*

Serban, Alexander; Watson, Keith G.; and Farquharson, Grame J., 4,655,819, Cl. 71-92.000.

Farquharson, Richard A.; Reierson, Robert L.; and Burdett, Kenneth A., to Dow Chemical Company, The. Delayed release insecticidal composition and method of making same. 4,666,706, 5-19-87, Cl. 424-408.000.

Farr, Aaron V., to Abex Corporation. Phase detector. 4,636,720, 1-13-87, Cl. 324-86.000.

Farr, Albert P., Jr., to Hughes Tool Company - USA. Pre-set torque limiter sub. 4,655,479, 4-7-87, Cl. 285-18.000.

Farr Company: *See—*

Farr, Richard S.; and Rasmussen, Myron G., 4,659,466, Cl. 210-238.000.

Farr, Glyn P. R., to Lucas Industries Public Limited Company. Rotary flywheel skid sensing means for vehicle hydraulic braking systems. 4,633,981, 1-6-87, Cl. 188-181.00A.

Farr, Glyn P. R., to Lucas Industries Public Limited Company. Anti-skid hydraulic braking systems for vehicles. 4,655,513, 4-7-87, Cl. 303-115.000.

Farr, Glyn P. R., to Lucas Industries Public Limited Company. Flywheel mechanisms for anti-skid braking systems. 4,657,120, 4-14-87, Cl. 188-181.00A.

Farr, Glyn P. R., to Lucas Industries Public Limited Company. Vehicle with load conscious brake pressure reducing valve. 4,669,788, 6-2-87, Cl. 303-6.00C.

Farr, Glyn P. R., to Lucas Industries Public Limited Company. Hydraulic master cylinder. 4,688,382, 8-25-87, Cl. 60-562.000.

Farr, Glyn P. R., to Lucas Industries Public Limited Company. Brake pressure reducing valve. 4,707,036, 11-17-87, Cl. 303-6.00C.

Farr, Glyn P. R., to Lucas Industries Public Limited Company. Hydraulic anti-skid braking systems for vehicles. 4,714,301, 12-22-87, Cl. 303-116.000.

Farr, Glyn P. R., to Lucas Industries public limited Company. Hydraulic anti-skid braking systems for vehicles. 4,715,666, 12-29-87, Cl. 303-116.000.

Farr, James B., to Tecumseh Products Company. Alternator-compressor construction. 4,642,031, 2-10-87, Cl. 417-223.000.

Farr, James B., to Tecumseh Products Company. Permanent magnet excited alternator compressor with brushless DC control. 4,654,551, 3-31-87, Cl. 310-112.000.

Farr, Richard S.; and Rasmussen, Myron G., to Farr Company. Quick release cover assembly for a liquid filter housing. 4,659,466, 4-21-87, Cl. 210-238.000.

Farrah, D. Frank: *See—*

Smith, Hoyt L.; and Farrah, D. Frank, 4,676,494, Cl. 270-30.000.

Farrall, George A.; and Seymour, Raymond K., to General Electric Company. Electrical contact construction. 4,695,688, 9-22-87, Cl. 200-144.00B.

Farrall, George A.: *See—*

Harnden, John D., Jr.; Kornrumpf, William P.; and Farrall, George A., 4,680,840, Cl. 29-25.350.

Harnden, John D., Jr.; Kornrumpf, William P.; and Farrall, George A., 4,689,517, Cl. 310-332.000.

Harnden, John D., Jr.; Kornrumpf, William P.; and Farrall, George A., 4,714,847, Cl. 310-332.000.

Farrand Optical Co., Inc.: *See—*

LaRussa, Joseph; and Feron, David S., 4,671,771, Cl. 434-22.000.

LaRussa, Joseph A.; and Shenker, Martin, 4,708,438, Cl. 350-174.000.

Farrand, Robert M.; Milton, Thomas J.; and McDow, William R., to General Motors Corporation. Steering column with selectively adjustable and preset preferred positions. 4,691,587, 9-8-87, Cl. 74-493.000.

Farrand, Thomas A.: *See—*

Cantor, Eugene; and Farrand, Thomas A., 4,701,105, Cl. 416-95.000.

Farrant, John L.: *See—*

Balkau, Guenter K. W.; Bez, Eckhard; and Farrant, John L., 4,699,572, Cl. 417-254.000.

Farrar, David; and Dymond, Brian, to Allied Colloids Limited. Aqueous drilling and packer fluids. 4,675,119, 6-23-87, Cl. 252-8.514.

Farrar, David: *See—*

Allen, Adrian; and Farrar, David, 4,677,152, Cl. 524-543.000.

Dymond, Brian; and Farrar, David, 4,699,722, Cl. 252-8.551.

Flesher, Peter; and Farrar, David, 4,673,704, Cl. 524-519.000.

Flesher, Peter; Farrar, David; Hawe, Malcolm; and Langley, John, 4,702,844, Cl. 210-733.000.

Farrar, David J.; and Robinson, Thomas C., to Thoratek Laboratories Corp. Electronic control system for a cardiac prosthesis. 4,662,358, 5-5-87, Cl. 128-1.00D.

Farrar, Frank W. Grip for hand gun. 4,638,582, 1-27-87, Cl. 42-71.010.

Farrar, Frank W. Recoil shock pad. 4,683,671, 8-4-87, Cl. 42-74.000.

Farrar, James G.; and Eskandry, Ezra D., to Sensormatic Electronics Corporation. Electronic surveillance using self-powered article attached tags. 4,686,513, 8-11-87, Cl. 340-572.000.

Farrar, John C.; Ney, Reuben E.; and Schroeder, James L., III, to AMP Incorporated. Filtered electrical connector. 4,679,013, 7-7-87, Cl. 333-182.000.

Farrar, John C.; Schroeder, James L., III; and Yeager, Patrick F., to AMP Incorporated. Modular connector assembly and filtered insert therefor. 4,699,590, 10-13-87, Cl. 439-95.000.

Farrar, Kenneth D. Beer display, keg cooler. 4,699,282, 10-13-87, Cl. 215-12.00A.

Farrar, Nigel R.: *See—*

Soni, Pravin L.; Farrar, Nigel R.; Turk, Peter; and Rauwendaal, Christiaan J., 4,688,306, Cl. 29-25.350.

Farrar, Reed A.; and Gara, Aaron D., to Newport Corporation. Fiber optic range finder systems. 4,653,905, 3-31-87, Cl. 356-4.000.

Farrel Corporation: *See—*

Ellwood, Henry, 4,640,672, Cl. 425-192.00R.

Meeker, Gregory W.; Bleck, Norris E.; Rizzi, Marc A.; and Irick, Carl M., 4,714,422, Cl. 425-204.000.

Mehta, Pradip S.; Valsamis, Lefteris N.; and Donoian, Gary S., 4,711,581, Cl. 366-99.000.

Nortey, Narku O., 4,714,350, Cl. 366-84.000.

Siegel, Arthur D., 4,645,418, Cl. 415-199.500.

Farrell, Barbara L., to Xerox Corporation. High speed electronic reprographic/printing machine. 4,716,438, 12-29-87, Cl. 355-6.000.

Farrell, Christopher J.; and Tsai, Boh C., to American Can Company. Oxygen scavenger. 4,702,966, 10-27-87, Cl. 428-500.000.

Farrell Corporation: *See—*

Valenzky, David; and Markhart, Gary T., 4,707,139, Cl. 366-77.000.

Farrell, Geoffrey: *See—*

Waller, Martin; Farrell, Geoffrey; Mills, Kenneth W., deceased; Mason, Margaret, executor and Shindler, Geoffrey A., executor, 4,683,028, Cl. 162-275.000.

Farrell, Gregory A., to Technicon Instruments Corporation. Volumetric pumping apparatus and method for supplying fluids to sheath stream flow cells. 4,695,431, 9-22-87, Cl. 422-81.000.

Farrell, John C., to Kent Heating Limited. Heaters. 4,653,467, 3-31-87, Cl. 126-126.000.

Farrell, John J., to Wedco Inc. Method and apparatus for producing multilayered plastic containing sheets. 4,680,072, 7-14-87, Cl. 156-243.000.

Farrell, John P., to Westvaco Corporation. Pulp bleaching tower pressure relief hatch. 4,699,292, 10-13-87, Cl. 220-344.000.

Farrell, John P., to Westvaco Corporation. Trim receiver. 4,708,275, 11-24-87, Cl. 226-97.000.

Farrell, Mark A. Fastener element. 4,653,244, 3-31-87, Cl. 52-741.000.

Farrell, Peter C.; Bertram, Christopher D.; and Milthorpe, Bruce K., to Unisearch Limited. Whole blood clotting timer. 4,640,896, 2-3-87, Cl. 436-34.000.

Farrell, Robert F. Neutral zone, piece-capture game. 4,696,478, 9-29-87, Cl. 273-261.000.

Farrell, Robert H.: *See—*

Dixon, Jerry D.; Farrell, Robert H.; Marazas, Gerald A.; McNeill, Andrew B., Jr.; and Merckel, Gerald U., 4,637,024, Cl. 371-67.000.

Farrell, Roberta L.; Kirk, Thomas K.; and Tien, Ming, to Repligen Corporation; and United States of America, Agriculture. Novel enzymes which catalyze the degradation and modification of lignin. 4,687,741, 8-18-87, Cl. 435-189.000.

Farrell, Roberta L., to Repligen Corporation. Use of rLDM TM 1-6 and other ligninolytic enzymes in the treatment of mechanical pulps. 4,687,745, 8-18-87, Cl. 435-278.000.

Farrell, Roberta L., to Repligen Corporation. Use of rLDM TM 1-6 and other ligninolytic enzymes in the bleaching of kraft pulp. 4,690,895, 9-1-87, Cl. 435-278.000.

Farrell, Roberta L., to Repligen Corporation. Use of rLDM TM 1-6 and other ligninolytic enzymes for the decolorization of E1 effluent. 4,692,413, 9-8-87, Cl. 435-278.000.

Farrell, Trevor: *See—*

Winstanley, Ray; Farrell, Trevor; and Booth, Malcolm, 4,663,763, Cl. 373-26.000.

Farren, John; and Watkins, Roger D., to United Kingdom Atomic Energy Authority. Pipeline inspection. 4,667,515, 5-26-87, Cl. 73-601.000.

Farrenkopf, Bruce C.; and Kaufman, Richard A., to Hoffmann-La Roche Inc. Method and kit for determining total digoxin levels involving agent to dissociate digoxin-protein complex. 4,698,315, 10-6-87, Cl. 436-536.000.

Farrier, Ernest G.: *See—*

Banerjee, Chandra K.; Farrier, Ernest G.; Reynolds, John H. IV; Ridings, Henry T.; Sensabaugh, Andrew J., Jr.; Shannon, Michael D.; and Shelar, Gary R., 4,714,082, Cl. 131-359.000.

Farringer, Jeffrey A.: *See—*

Bowman, Charles H.; Farringer, Jeffrey A.; Garwin, Richard L.; Greene, Larry L.; Levine, James L.; Miles, Anthony W.; and Vorhees, Kevin H., 4,675,569, Cl. 310-328.000.

Farrington, Gregory C.; and Dunn, Bruce S., to University Patents, Inc. Optical materials from intercalation of polyvalent cations in beta double prime alumina. 4,664,849, 5-12-87, Cl. 252-647.000.

Farrington, Richard I.; and Lawrence, Jeffrey W., to Coleco Industries, Inc. Figure toy with launching mechanism for conceled flying element. 4,654,018, 3-31-87, Cl. 446-38.000.

Farrington, Richard I.: *See—*

Bovi, Robert D., and Farrington, Richard I., 4,674,989, Cl. 446-336.000.

Droller, Richard; and Farrington, Richard I., 4,682,968, Cl. 446-268.000.

Farrington, Ronald L.: *See—*

Durivage, Leon W.; and Farrington, Ronald L., 4,706,155, Cl. 361-64.000.

Farris, Edward T.; Barsa, John J.; Lagow, Richard J.; and Capano, Paul J. Solid calcium phosphate materials. 4,673,355, 6-16-87, Cl. 433-218.000.

Farris, Joy F.: *See—*

Farris, Richard D.; and Farris, Joy F., 4,667,911, Cl. 248-97.000.

Farris, Ray L.; Rodi, Michael F.; Farris, Ray L.; Wylesol, George; and Cook, Thomas A., to Joint Mobilizer Systems Corp. Apparatus for articulating the knee and hip joints. 4,665,899, 5-19-87, Cl. 128-25.00R.

Farris, Ray L.: *See—*

Farris, Ray L.; Rodi, Michael F.; Farris, Ray L.; Wylesol, George; and Cook, Thomas A., 4,665,899, Cl. 128-25.00R.

Farris, Richard D.; and Farris, Joy F. Device for supporting a trash receptacle. 4,667,911, 5-26-87, Cl. 248-97.000.

Farris, Richard D.: *See—*

McCombs, Craig C.; and Farris, Richard D., 4,656,368, Cl. 307-272.00A.

Farris, Robert D.: *See—*

Overcashier, Robert H.; and Farris, Robert D., 4,635,500, Cl. 74-552.000.

Farrow, Cecil W., to American Telephone and Telegraph Company; and AT&T Information Systems Inc. Technique for decision-directed equalizer train/retrain. 4,709,374, 11-24-87, Cl. 375-13.000.

Farrow, Robert I.; and Clark, Richard L., to American Multimedia, Inc. Method and apparatus for servo-control of tape tension in high speed tape transporter. 4,656,530, 4-7-87, Cl. 360-15.000.

Farrow, Robert I., to American Multimedia, Inc. Cassette tape loader apparatus for testing the presence of magnetic storage medium on a given side of a tape. 4,657,197, 4-14-87, Cl. 242-56.00R.

Farrow, Robert T. Anti-theft device for road vehicles. 4,696,172, 9-29-87, Cl. 70-238.000.

Farrugia, Vincent J.: *See—*

Osborn, Scott E.; Farrugia, Vincent J.; Plischke, LeMoyne W.; and Wu, Chester C., 4,701,518, Cl. 528-336.000.

Farthing, Denis, to Gulf Eastern Manufacturing Company. Car carrier assembly. 4,712,967, 12-15-87, Cl. 414-563.000.

Fasano, Fulvio, to Danieli & C. Officine Meccaniche SpA. Billet launching device in continuous casting machines. 4,685,506, 8-11-87, Cl. 164-416.000.

Fasano, Michael, to Porta Systems Corp. Replacement protector block for telephone circuits. 4,667,272, 5-19-87, Cl. 361-394.000.

Fascenda, Anthony C., to Lotus Information Network Corp. Access control system for transmitting data from a central station to a plurality of receiving stations and method therefor. 4,677,434, 6-30-87, Cl. 380-23.000.

Fascetti, Eugenio: *See—*

Olivieri, Roberto; Bianchi, Giancarlo E.; Fascetti, Eugenio; and Centini, Felice, 4,666,840, Cl. 435-106.000.

Fasching, George E.; and Goff, David R., to United States of America, Energy. Compensated vibrating optical fiber pressure measuring device. 4,667,097, 5-19-87, Cl. 250-231.00P.

Fasching, George E., to United States of America, Energy. Pulse-excited, auto-zeroing multiple channel data transmission system. 4,680,585, 7-14-87, Cl. 340-870.130.

Fasco Controls Corporation: *See—*

Ring, Thomas F., 4,642,432, Cl. 200-155.00R.

Fasco Industries, Inc.: *See—*

Ivey, Charles W., 4,681,024, Cl. 98-34.600.

Lakin, Bryan L., 4,644,204, Cl. 310-89.000.

Lakin, Bryan L., 4,645,361, Cl. 384-441.000.

Lakin, Bryan L., 4,711,590, Cl. 384-206.000.

Lakin, Bryan L.; and Wharton McDaniel, William P., 4,712,030, Cl. 310-89.000.

Taylor, F. Warren, 4,645,150, Cl. 248-56.000.

Fasen, Donald J.; and Wilcox, Roger V., to Hewlett-Packard Company. Process and system for compensating for information shifts on disc storage media. 4,700,244, 10-13-87, Cl. 360-77.000.

Fasham, Thomas I. K., to Moore Business Forms, Inc. Hospital form set with detachable bag. 4,706,996, 11-17-87, Cl. 282-1.00R.

Fashion Magic, Inc.: *See—*

English, David R., 4,676,549, Cl. 297-224.000.

Fasick, Ernest J.: *See—*

Honekamp, Curtis J.; and Fasick, Ernest J., 4,662,489, Cl. 192-4.00A.

Fasnacht, Floyd A., Jr.; Klahn, Frank C.; Schafer, Bruce W.; and Werner, Charles E., to Babcock & Wilcox Company, The. Sludge lance wand. 4,700,662, 10-20-87, Cl. 122-392.000.

Fasnacht, Jeffery L. Apparatus and method for making positioners. 4,690,787, 9-1-87, Cl. 264-16.000.

Fasolino, Gabriel V. Reusable and adjustable fastener for use with power tool applicator. 4,681,496, 7-21-87, Cl. 411-361.000.

Fasquel, Didier: *See—*

Mignien, Georges; and Fasquel, Didier, 4,664,471, Cl. 350-96.210.

Fass, Leon; and Loyevsky, Vladimir. Measuring attachment. 4,642,899, 2-17-87, Cl. 33-140.000.

Fass, Leon; and Loyevsky, Vladimir. Method and arrangement for producing composite life images, and subimage carrier provided therefor. 4,677,460, 6-30-87, Cl. 358-22.000.

Fassauer, Arthur L. Pelletized material feeder and water combination. 4,651,679, 3-24-87, Cl. 119-51.500.

Fassbender, Nikolaus, to Kirchner & Wilhelm, Firma. Stethoscope. 4,669,572, 6-2-87, Cl. 181-137.000.

Fassbender, Rolf, to Zahnradfabrik Friedrichshafen, AG. Hydrostatic steering arrangement, especially for motor vehicles. 4,705,129, 11-10-87, Cl. 180-132.000.

Fassbinder, Hans-Georg, to Kloeckner Stahlforschung GmbH. Method and a device for measuring and/or regulating the mass flow of solid particles. 4,662,798, 5-5-87, Cl. 406-14.000.

Fassbinder, Hans-Georg, to Klockner CRA Technologie GmbH. Apparatus for measuring a bulk stream. 4,700,578, 10-20-87, Cl. 73-861.370.

Fassler, Friedbert; Kigyos, Frank; and Slaughter, Bobby L., to North American Philips Corporation. Brush with self retaining bristles. 4,635,313, 1-13-87, Cl. 15-193.000.

Fassman, Arnold; and Salancy, William, to Pitney Bowes Inc. Inking apparatus for a mailing machine. 4,697,517, 10-6-87, Cl. 101-348.000.

Fassnacht, Ronald E.: *See—*
  Miesterfeld, Frederick O. R.; Fassnacht, Ronald E.; and McCambridge, John M., 4,706,082, Cl. 340-825.500.

Fast, Benjamin, to Fast, Ronald D. Vehicle washing machine. 4,643,209, 2-17-87, Cl. 134-123.000.

Fast Heat Element Manufacturing Co., Inc.: *See—*
  Crandell, Walter R., 4,641,423, Cl. 29-611.000.

Fast, Jacob. Product identification tag with adaptable mounting portion. 4,646,454, 3-3-87, Cl. 40-124.100.

Fast, Jacob. Display tag for product information. 4,665,639, 5-19-87, Cl. 40-124.400.

Fast, Jacob. Product information tags with improved mounting arrangements. 4,693,024, 9-15-87, Cl. 40-20.00R.

Fast, Jacob. Product information display tag. 4,694,595, 9-22-87, Cl. 40-19.500.

Fast, Jacob. Merchandise information tag with improved mounting portion. 4,694,596, 9-22-87, Cl. 40-20.00R.

Fast, Jacob. Product information tag with improved mounting portion. 4,698,929, 10-13-87, Cl. 40-124.100.

Fast, Jacob. Multipurpose sign holder. 4,704,813, 11-10-87, Cl. 40-11.00R.

Fast, Jacob. Information display element for shelf and price channel use. 4,713,899, 12-22-87, Cl. 40-10.00R.

Fast, Jacob. Longitudinally reinforced display tag for product information. 4,715,135, 12-29-87, Cl. 40-10.00R.

Fast, Jacob J. Product identification tag with improved mounting portion. 4,671,002, 6-9-87, Cl. 40-2.00R.

Fast, Jacob J. Product identification tags. 4,703,570, 11-3-87, Cl. 40-19.500.

Fast, Patricia E.: *See—*
  Stringfellow, Dale A.; and Fast, Patricia E., 4,665,077, Cl. 514-269.000.

Fast, Raymond D.; and Murray, Brian A., to Microtel Limited. Method of locking a master oscillator in a narrowband phase-lock loop to a pilot tone. 4,642,576, 2-10-87, Cl. 331-1.00R.

Fast, Raymond D.; and Murray, Brian A. Narrowband phase-lock loop circuit with automatic convergence. 4,646,031, 2-24-87, Cl. 331-25.000.

Fast, Robert B., to Nabisco Brands, Inc. Continuous process for cooking cereal grains. 4,699,797, 10-13-87, Cl. 426-508.000.

Fast, Ronald D.: *See—*
  Fast, Benjamin, 4,643,209, Cl. 134-123.000.

Fast, Ronald W., to United States of America, Energy. Relief device for a vacuum vessel. 4,660,599, 4-28-87, Cl. 137-512.200.

Fastenau, Werner, to Ed. Zublin Aktiengesellschaft. Form for producing concrete rails. 4,637,586, 1-20-87, Cl. 249-159.000.

Faster GmbH & Co KG: *See—*
  Bappert, Adolf; and Bader, Hans P., 4,675,972, Cl. 29-526.00R.

FasTest, Inc.: *See—*
  Meisinger, Stanlee W.; and Welch, Daniel P., 4,688,830, Cl. 285-100.000.

Fastner, Thorwald; Mayrhofer, Max; and Taschner, Walter, to Voest-Alpine Aktiengesellschaft. Method of producing a plate of steel. 4,684,053, 8-4-87, Cl. 228-158.000.

Fasto B.V.: *See—*
  Stapensea, Jan A., 4,671,459, Cl. 237-8.00R.

Fata European Group S.p.A.: *See—*
  Catena, Nicola, 4,715,288, Cl. 105-154.000.
  Di Rosa, Gaetano, 4,659,895, Cl. 219-79.000.

Fatatry, Ayman E., to General Electric Company, p.l.c., The. Optical multi-fibre switch. 4,652,081, 3-24-87, Cl. 350-96.200.

Fater, Zsuzsanna: *See—*
  Tyihak, Erno; Mincsovics, Emil; Zoltan, Sandor; Kemeny, Gabor; Mathuny, Aniko; Szekely, Tibor; Nemeth, Sandor; Antal, Zsuzsanna; and Fater, Zsuzsanna, 4,658,000, Cl. 526-217.000.

Fathi, Saul S., to Ultima Electronics Ltd. Holder and heat sink for electronic components. 4,656,559, 4-7-87, Cl. 361-386.000.

Fathi, Saul S., to Ultima Electronics Ltd. Adapter for switching from primary to standby device upon failure of primary device. 4,712,051, 12-8-87, Cl. 318-564.000.

Fathimulla, Mohammed A., to Allied Corporation. Monolithic programmable signal processor using PI-FET taps. 4,665,374, 5-12-87, Cl. 333-196.000.

Fathman, C. Garrison, to Leland Stanford Junior University, The Board of Trustees of the. Method of conferring immunotolerance to a specific antigen. 4,681,760, 7-21-87, Cl. 424-85.000.

Fathom Oceanology Limited: *See—*
  Hale, Neville E., 4,636,114, Cl. 405-224.000.
  Hale, Neville E., 4,656,962, Cl. 114-264.000.
  Hale, Neville E., 4,700,651, Cl. 114-243.000.

Fathy, Ahmed M.: *See—*
  Wallenfels, Kurt; and Fathy, Ahmed M., 4,716,222, Cl. 536-18.700.

Fatovic, Peter: *See—*
  Lafrance, Conrad D.; and Fatovic, Peter, 4,697,283, Cl. 379-443.000.

Fattedad, Frank D.: *See—*
  Dvorak, Robert E.; and Fattedad, Frank D., 4,679,7 273-254.000.

Fattinger, Volker: *See—*
  Wymann, Paul; and Fattinger, Volker, 4,716,066, Cl. 428-116

Fattom, Ali: *See—*
  Shilo, Moshe; and Fattom, Ali, 4,649,110, Cl. 435-68.000.
  Shilo, Moshe; and Fattom, Ali, 4,693,842, Cl. 252-356.000.

Fattore, Vittorio: *See—*
  Taramasso, Marco; Manara, Giovanni; Fattore, Vittorio Notari, Bruno, 4,656,016, Cl. 423-277.000.
  Taramasso, Marco; Manara, Giovanni; Fattore, Vittorio Notari, Bruno, 4,666,692, Cl. 423-326.000.

Fau de Casa-Juana, Miguel: *See—*
  Sunkel, Carlos E.; Fau de Casa-Juana, Miguel; Statkow, Pete and Straumann, Danielle, 4,656,181, Cl. 514-336.000.

Faubion, Donald. Measuring microscope assembly. 4,676,608, 6-3 Cl. 350-521.000.

Faubl, Hermann; and Stein, Robert G., to Abbott Laboratories. Er romycin A silylated compounds and method of use. 4,640,910, 2-3 Cl. 514-29.000.

Faucher, Paul W. Ostomy pouch cover. 4,705,512, 11-10-87, 604-332.000.

Faucher, Philippe: *See—*
  Roue, Jean; LeDisert, Yves; Faucher, Philippe; and Scriven, R L., 4,689,131, Cl. 204-181.700.

Fauck, Gerhard; Kiel, Bernd; and Ulrich, Helmut, to WABCO W tinghouse Fahrzeugbremsen GmbH. Load-dependent brake pres regulator for motor vehicle and/or trailer brake systems. 4,640 2-3-87, Cl. 303-22.00R.

Fauck, Gerhard; Deike, Karl-Heinz; and Kiel, Bernd, to WAB Westinghouse Fahrzeugbremsen GmbH. Relay valve de 4,653,811, 3-31-87, Cl. 303-28.000.

Fauck, Gerhard; Pohl, Wolfgang; and Ulrich, Helmut, to Wabco W tinghouse. Load controller brake force controller for pneum motor vehicle or motor vehicle trailer brake systems. 4,666 5-19-87, Cl. 303-22.00R.

Faucon, Didier: *See—*
  Perrier, Hubert; and Faucon, Didier, 4,674,917, Cl. 405-223.0

Faudi Feinbau GmbH: *See—*
  Koch, Paul; and von Kunszberg, Eberhard, 4,673,499, 210-295.000.

Fauerbach, Rudolf; and Partz, Karl-Erich, to Mannesmann AG. S wheel having oscillating impact cutters. 4,663,868, 5-12-87, 37-190.000.

Faugeras, Philippe; and Tribet, Daniel, to Compagnie Industrielle Telecommunications CIT-Alcatel. Opto-electronic selector hav plurality of optical signal inlets. 4,656,350, 4-7-87, Cl. 250-209.0

Faugeras, Philippe: *See—*
  Boirat, Robert; Faugeras, Philippe; Haus, Denis; and Mi Jacques, 4,653,849, Cl. 350-96.220.
  Boirat, Robert; Faugeras, Philippe; Haus, Denis; and Mi Jacques, 4,653,850, Cl. 350-96.220.

Faugouin, Michel: *See—*
  Poncelet, Andre ; Getti, Hyacinthe; and Faugouin, M 4,714,626, Cl. 427-49.000.

Faul, Thomas L., to Teckserve Limited. Adaptor for steering w 4,662,775, 5-5-87, Cl. 403-365.000.

Faul, Thomas L., to Barclay Horticulture Mfg. Ltd. Compos 4,683,674, 8-4-87, Cl. 47-83.000.

Faulconer, Harry A. Flat folding alternating barrier. 4,690,583, 9 Cl. 404-6.000.

Faulconer, Mark; and Greatrake, Scott E. Buoyancy compe insertable backpack. 4,690,314, 9-1-87, Cl. 224-211.000.

Faulconer, Mark; and Greatrake, Scott E., to U.S.D. Corp. D buoyancy compensator belt. 4,694,772, 9-22-87, Cl. 114-315.00

Faulkner, Danny E.; and Little, William R., to Alpha Manufact Inc. Idler roll assembly. 4,645,071, 2-24-87, Cl. 198-842.000.

Faulkner, James V., Jr.: *See—*
  Kennon, Jerry M.; Faulkner, James V., Jr.; and York, Theodo 4,649,569, Cl. 455-67.000.

Faulkner, Richard D.; and McHose, Robert E., to RCA Corpo Electron discharge device having a thermionic emission-red coating. 4,656,392, 4-7-87, Cl. 313-533.000.

Faulkner, Stephen L.: *See—*
  Buchanan, Sab[illegible] D.; and Faulkner, Stephen L., 4,698,5 318-87.000.

Faulkner, W. Harrison, III, to Slautterback Corporation. Viscou moplastic melting and dispensing unit. 4,641,764, 2-10-8 222-146.200.

Faulkner, W. Harrison, III, to Slautterback Corporation. Ho dispenser with aimable nozzles. 4,659,016, 4-21-87, Cl. 239-13

Faull, Ralph G.: *See—*
  Russell, James P.; Faull, Ralph G.; and Buchar, Way 4,647,184, Cl. 355-14.00C.

Faulseit, Bruce K.: *See—*
  Reichert, William W.; Cody, Charles A.; Desesa, Michael Faulseit, Bruce K., 4,710,404, Cl. 427-386.000.

Faulstich, Hans I.; and Muller, Wolfgang, to Hermann Pfauter & Co. Method for determining the angular position of a wo and positioning the same. 4,657,447, 4-14-87, Cl. 409-12.000.

Faulstich, Ingo; and Ulbrich, Dieter, to Hermann Pfauter GmbH Machine tool controller. 4,708,544, 11-24-87, Cl. 409-12.000.

Faunce, Daniel H. Boat fishing organizer formed as basket-like ture with attachment means for fishing accessories. 4,671,009, Cl. 43-54.100.

Faupel, Werner, to Robert Bosch GmbH. Method and apparatus for injecting fuel to attain a smooth combustion in a combustion engine. 4,633,836, 1-6-87, Cl. 123-467.000.

Faupel, Werner; and Schmidt, Klaus, to Robert Bosch GmbH. Fuel injection pump for internal combustion engines. 4,635,605, 1-13-87, Cl. 123-449.000.

Fauquembergue, Renaud: *See*—
Decoster, Didier; Fauquembergue, Renaud; and Constant, Monique, 4,652,335, Cl. 156-643.000.

Faure, Alain: *See*—
Bossand, Bernard; Eppe, Jacques; Faure, Alain; and Leygue, Gilles, 4,684,391, Cl. 71-24.000.
Grangette, Henri; Linares, Michel; Bossand, Bernard; and Faure, Alain, 4,708,720, Cl. 44-51.000.

Faure, Jean-Francois, to Cegedur Societe de Transformation de l'Aluminium Pechiney. Process for the production by powder metallurgy of components subjected to friction. 4,661,154, 4-28-87, Cl. 75-231.000.

Faure Roux: *See*—
Chardon, Georges; and Chomienne, Andre, 4,640,317, Cl. 139-431.000.

Faurie, Andre; and Pedone, Jean-Marie, to La Cellulose du Pin. Automatic device for processing a product. 4,665,600, 5-19-87, Cl. 29-33.00K.

Faurie, Daniel B, to Carrier Corporation. Actuator for a heating/cooling diffuser. 4,699,314, 10-13-87, Cl. 236-49.000.

Fauser, Edwin; List, Hans; and Schirmer, Gunter, to Robert Bosch GmbH. Device for transmitting of binary data between a mobile data carrier and a stationary station. 4,665,399, 5-12-87, Cl. 340-870.320.

Fauser, Edwin; and List, Hans, to Robert Bosch GmbH. Circuit arrangement for monitoring the current supply of an electric consumer. 4,716,372, 12-29-87, Cl. 328-146.000.

Fauser, Fritz: *See*—
Meyer, Burton C.; and Fauser, Fritz, 4,707,921, Cl. 30-296.00R.

Fausett, Kirk A.; and Fausett, Linda S. Storage hammock. 4,664,266, 5-12-87, Cl. 211-87.000.

Fausett, Linda S.: *See*—
Fausett, Kirk A.; and Fausett, Linda S., 4,664,266, Cl. 211-87.000.

Fauske, Hans K.: *See*—
Swift, Ian; and Fauske, Hans K., 4,670,404, Cl. 436-147.000.

Fausone, Alfredo; and Moncalvo, Agostino, to CSELT - Centro Studi e Laboratori Telecomunicazioni S.p.A. Broadband-signal broadcasting system. 4,716,587, 12-29-87, Cl. 380-10.000.

Fausone, Alfredo: *See*—
Ambrosio, Renato; Broso, Alberto; Fausone, Alfredo; and Tofanelli, Adler, 4,713,803, Cl. 370-32.100.

Fauss, Rudolf; and Riebel, Hans-Jochem, to Bayer Aktiengesellschaft. Process for the preparation of 4-alkoxy-6-alkyl-2-cyanamino-1,3,5-triazines. 4,659,820, 4-21-87, Cl. 544-194.000.

Fauss, Rudolf; and Riebel, Hans-Jochem, to Bayer Aktiengesellschaft. Process for the preparation of 4-alkoxy-6-alkyl-2-cyanoamino-1,3,5-triazines. 4,659,821, 4-21-87, Cl. 544-194.000.

Fauss, Rudolf; Lantzsch, Reinhard; Findeisen, Kurt; Jager, Gerhard; Hammann, Ingeborg; Becker, Benedikt; and Homeyer, Bernhard, to Bayer Aktiengesellschaft. Use of substituted malonic acid derivatives as agents for combating pests. 4,698,333, 10-6-87, Cl. 514-63.000.

Faust, Carl W., to American Telephone and Telegraph Company AT&T Bell Laboratories. Locking mechanism for aerial cable closure and terminals. 4,704,499, 11-3-87, Cl. 174-92.000.

Faust, Eberhard; Niethammer, Kurt; and Hammer, Ludwig, to Daimler-Benz Aktiengesellschaft. Arrangement for securing the end position of a guided support rod of a headrest. 4,695,095, 9-22-87, Cl. 297-410.000.

Faust, Eberhard: *See*—
Krugener, Rolf; Faust, Eberhard; and Niethammer, Kurt, 4,650,250, Cl. 297-410.000.

Faust, J. Philip: *See*—
Alexander, Roy P.; Faust, J. Philip; and Milford, Alan H., 4,643,881, Cl. 422-265.000.

Faust, Karl-Volker, to Paul Hettich GmbH & Co. Drawer guide. 4,653,821, 3-31-87, Cl. 312-337.000.

Faust, Karl-Volker; and Schroeder, Gerhard, to Paul Hettich GmbH & Co. Drawer. 4,671,581, 6-9-87, Cl. 312-330.00R.

Faust, Uwe: *See*—
Hagelauer, Ulrich; and Faust, Uwe, 4,708,878, Cl. 426-231.000.

Fauteux, Denis: *See*—
Gauthier, Michel; and Fauteux, Denis, 4,690,840, Cl. 427-436.000.

Fauth, Karl-Heinz: *See*—
Schick, Hans; Kolk, Erich; Fauth, Karl-Heinz; and Mohr, Heinrich, 4,691,072, Cl. 585-525.000.

Fauveau, Patrick: *See*—
Nedelec, Lucien; Fauveau, Patrick; Hamon, Gilles; and Oberlander, Claude, 4,661,482, Cl. 514-227.000.
Nedelec, Lucien; Hamon, Gilles; Fauveau, Patrick; and Oberlander, Claude, 4,694,011, Cl. 514-323.000.

Fauvel, Pierre: *See*—
Warzawski, Bernard; and Fauvel, Pierre, 4,640,876, Cl. 429-37.000.

Fauvet, Jean-Pierre; and Parisel, Jacques, to La Telemecanique Electrique. Process and device for determining the mean value of the current delivered by a controllable valve rectifier bridge. 4,638,419, 1-20-87, Cl. 363-87.000.

Fauvet, Jean-Pierre; and Parisel, Jacques, to La Telemecanique Electrique. Method and apparatus for generating a control power delivered to a load by a polyphase power line. 4,670,831, 6-2-87, Cl. 363-87.000.

Fauvet, Jean-Pierre; and Parisel, Jacques, to La Telemecanique Electrique. Speed determining process and a device for implementing same. 4,683,545, 7-28-87, Cl. 364-565.000.

Fava, Jean; Lambert, Andre; and Tognet, Jean-Paul, to Rhone-Poulenc Chimie de Base. Essentially complete recovery of uranium, yttrium, thorium and rare earth values from phosphate rock during wet-process production of phosphoric acid therefrom. 4,636,369, 1-13-87, Cl. 423-20.000.

Fava, Thomas F.; Bean, Robert; Lary, Richard F.; and Blackledge, Robert, to Digital Equipment Corporation. Address conversion unit for multiprocessor system. 4,648,035, 3-3-87, Cl. 364-200.000.

Favaloro, Jennifer: *See*—
Kuo, George; Masiarz, Frank R.; Truett, Martha; Valenzuela, Pablo; Rasmussen, Mirella E.; and Favaloro, Jennifer, 4,716,117, Cl. 435-240.270.

Favaretto, Paolo. Adjustable chair. 4,662,681, 5-5-87, Cl. 297-349.000.

Favatella, David. Gyroscopically stabilized magnetic suspension system. 4,643,034, 2-17-87, Cl. 74-5.460.

Favey, Charles: *See*—
Lecerf, Jean-Pierre; Favey, Charles; and Meurice, Pierre, 4,705,059, Cl. 137-82.000.

Favier, Andre-Marcel: *See*—
Abecassis, Jacky R.; Baum, Bernard; Favier, Andre-Marcel; and Levert, Patrice C., 4,703,717, Cl. 118-698.000.

Favorite Manufacturing, Inc.: *See*—
Martin, Eugene G.; and Risser, Dale M., 4,639,972, Cl. 17-11.000.
Martin, Eugene G.; and Martin, Harold C., 4,697,307, Cl. 17-11.000.

Favreau, Michel, to Thomson-CSF. Large screen video display comprising a matrix array of cathode-ray tubes operated at increased vertical and horizontal scan rates. 4,635,105, 1-6-87, Cl. 358-67.000.

Fawcett, Bradley W.; and Sendelbach, Lee A., to International Business Machines Corporation. Legibility enhancement for alphanumeric displays. 4,692,758, 9-8-87, Cl. 340-735.000.

Fawcett, Sherwood L., to Battelle Development Corporation. Rotary engine. 4,646,694, 3-3-87, Cl. 123-245.000.

Fawkes, David M., to Imperial Chemical Industries PLC. Treated non-woven material. 4,655,756, 4-7-87, Cl. 604-360.000.

Fawley, Norman C. Method of treating a pipe and product produced thereby. 4,676,276, 6-30-87, Cl. 138-172.000.

Fawley, Norman C. Clock spring crack arrestor. 4,700,752, 10-20-87, Cl. 138-172.000.

Fawzi, Mahdi B.; and Taylor, Anne K., to Warner-Lambert Company. Parenteral phenytoin preparations. 4,642,316, 2-10-87, Cl. 514-398.000.

Fawzi, Mahdi B.: *See*—
Chow, Li Hang; Fawzi, Mahdi B.; and Ghebre-Sellassie, Isaac, 4,687,776, Cl. 514-312.000.
Mahjour, Majid; Nesbitt, Russell U., Jr.; Fawzi, Mahdi B.; and Tedeschi, Bernadette, 4,666,926, Cl. 514-345.000.
Silbering, Steven B.; Nesbitt, Russell U.; and Fawzi, Mahdi B., 4,696,812, Cl. 424-445.000.

Fawzy, Moharram M., to IntraTechnology Associates, Inc. Electromechanical device with slotted stator. 4,701,656, 10-20-87, Cl. 310-254.000.

Fay, Bernard; and Novak, W. Thomas, to Micronix Corporation. Multiple wavelength linear zone plate alignment apparatus and method. 4,704,033, 11-3-87, Cl. 356-363.000.

Fay, Bernard: *See*—
Northrup, Ronnie; and Fay, Bernard, 4,698,834, Cl. 378-34.000.

Fay, Gary; Mansmann, Jeffrey G.; and Wellnitz, Keith M., to Motorola, Inc. Integrated circuit speed controller. 4,667,121, 5-19-87, Cl. 307-580.000.

Fay, Gary; Mansmann, Jeffrey G.; and Wellnitz, Keith M., to Motorola, Inc. Integrated circuit power timer. 4,703,390, 10-27-87, Cl. 361-101.000.

Fay, John E., to Biomedical Polymers, Inc. Filter device and apparatus with multiple gas return passages. 4,675,110, 6-23-87, Cl. 210-436.000.

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- Lubotta, Mark S.; and Scullion, Martin, 4,668,211, Cl. 493-188.000.
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- Russo, Adolph D.; and Zec, Milan, 4,662,085, Cl. 34-105.000.
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Kraemer, Dieter; Siol, Werner; Markert, Gerhard; Suetterlin, Norbert; and Feil, Cornelia, 4,710,525, Cl. 523-201.000.

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Feilchenfeld, Michal M.; and Connors, Grant R., to Westinghouse Electric Corp. Position indicating device. 4,711,757, 12-8-87, Cl. 376-258.000.

Feild, Alexander L., Jr., to Westinghouse Electric Corp. Process for coating the internal surface of zirconium tubes with neutron absorbers. 4,695,476, 9-22-87, Cl. 427-6.000.

Feild, Alexander L., Jr., to Westinghouse Electric Corp. Double lock joint for attaching top nozzle to guide thimbles of nuclear fuel assembly. 4,699,759, 10-13-87, Cl. 376-446.000.

Feilen, Albert: *See—*

Willems, Martin; Feilen, Albert; and Urban, Otfried, 4,676,375, Cl. 206-444.000.

Feinauer, Otto: *See—*

Braitinger, Helmut; and Feinauer, Otto, 4,651,273, Cl. 364-188.000.

Schneider, Franz; Braitinger, Helmut; and Feinauer, Otto, 4,682,280, Cl. 364-191.000.

Feinauer, Roland; and Jadamus, Hans, to Chemische Werke Huls Aktiengesellschaft. Thermoplastic compositions based on polyphenylene ethers, impact-resistant styrene polymers, and pulverulent, filler-containing rubber; and method for manufacturing such compositions. 4,690,970, 9-1-87, Cl. 524-504.000.

Feinauer, Roland: *See—*

Jadamus, Hans; Ribbing, Wilfried; Feinauer, Roland; and Schaefer, Wolfgang, 4,647,613, Cl. 524-504.000.

Jadamus, Hans; Ribbing, Wilfried; Feinauer, Roland; and Schafer, Wolfgang, 4,656,220, Cl. 524-502.000.

Jadamus, Hans; Ribbing, Wilfried; and Feinauer, Roland, 4,690,978, Cl. 525-152.000.

Feinberg, Alixandra. Garment for convalescents. 4,683,594, 8-4-87, Cl. 2-105.000.

Feinberg, Andrew S. Swimming pool cleaner attachment. 4,637,087, 1-20-87, Cl. 15-1.700.

Feinberg, David A., to University of California, The Regents of the. Rapid magnetic resonance imaging using multiple phase encoded spin echoes in each of plural measurement cycles. 4,684,891, 8-4-87, Cl. 324-309.000.

Feinberg, David A., to University of California, The Regents of the. MRI of chemical shift spectra within limited inner volume. 4,698,592, 10-6-87, Cl. 324-309.000.

Feinberg, Jack: *See—*

Ewbank, Mark D.; Feinberg, Jack; Khoshnevisan, Mohsen; and Yeh, Pochi A., 4,648,092, Cl. 372-18.000.

Feinberg, Richard R., to Ciba Corning Diagnostics Corp. Derivatives of 3,5,3-triiodothyronine. 4,711,855, 12-8-87, Cl. 436-500.000.

Feinberg, Stewart C., to Atlantic Richfield Company. Photocell assembly. 4,636,578, 1-13-87, Cl. 136-251.000.

Feinbloom, Richard E., to Designs for Vision, Inc. Methods and apparatus for medical photography. 4,662,733, 5-5-87, Cl. 354-126.000.

Feindrahtwerk Adolf Edelhoff GmbH & Co.: *See—*

Diehl, Peter, 4,661,215, Cl. 204-28.000.

Feiner, Haim: *See—*

Gran, Paul; Feiner, Haim; Ben-Dayan, Nissim; Stefaniu, Marian; and Mar-Chaim, Yechiam, 4,638,453, Cl. 364-900.000.

Feinman, Jerome: *See—*

Howell, John L.; McGreal, Joseph E., Jr.; Nemeth, Edward J.; Waslo, Stephen; and Feinman, Jerome, 4,686,090, Cl. 423-244.000.

Feinmann, Bernhard P. P.; and Martignoni, Mario. Material and method for dentistry. 4,677,139, 6-30-87, Cl. 523-111.000.

Feinmetall GmbH: *See—*

Kruger, Gustav, 4,686,465, Cl. 324-158.00P.

Kruger, Gustav, 4,701,702, Cl. 324-158.00P.

Kruger, Gustave, 4,707,655, Cl. 324-158.00P.

Feinstein, Allen I.: *See—*

Carlson, Ronald E.; Ely, Stephen R.; Feinstein, Allen I.; and Ghanayem, Ibrahim, 4,677,240, Cl. 585-488.000.

Feinstein, David Y. Electronic card for sharing the same edgeboard connector with another electronic edgeboard. 4,692,120, 9-8-87, Cl. 439-62.000.

Feinstein, Jonathan J., to Union Carbide Corporation. Side-injected metal refining vessel and method. 4,711,430, 12-8-87, Cl. 266-47.000.

Feinstein, Jonathan J.: *See—*

Masterson, Ian F.; Feinstein, Jonathan J.; and Stambaugh, Lani
4,647,019, Cl. 266-243.000.

Masterson, Ian F.; Feinstein, Jonathan J.; and Stambaugh, Lani
4,708,738, Cl. 75-59.100.

Feinstone, Stephen M.: *See—*

Daemer, Richard J.; Feinstone, Stephen M.; Gust, Ian D.; a
Purcell, Robert H., 4,636,469, Cl. 435-237.000.

Feintuch, Paul L., to Hughes Aircraft Company. Adaptive predictor
surface reverberation in a bistatic sonar. 4,654,835, 3-31-87,
367-100.000.

Feinwerktechnik Schleicher & Co.: *See—*

Goldhammer, Albert, 4,650,128, Cl. 241-36.000.

Goldhammer, Albert; Schleicher, Haus; Stangenberg, Hartm
Gasteier, Rolf; and Erlecke, Jens, 4,709,197, Cl. 318-480.000.

Feinzig, David S.; Watson, I. Wesley; and Hahn, Clifford H., to Easte
Refractories Company, Inc. Thermal insulating blanket. 4,676,94
6-30-87, Cl. 376-289.000.

Feiring, Andrew E., to Du Pont de Nemours, E. I., and Compan
Sulfinate-initiated addition of perfluorinated iodides to olefi
4,650,913, 3-17-87, Cl. 570-144.000.

Feisel, Magaret A.: *See—*

Baker, Daniel G.; and Feisel, Magaret A., 4,680,621, Cl. 358-19.00

Feissel, Henri: *See—*

Bacou, Claude; Baptiste, Rene; Feissel, Henri; Takats, Gilbert; a
Cabrol, Christian, 4,714,828, Cl. 250-214.00C.

Feisser, Jan J. J. L., to Louet Beheer b.v. Handloom provided with
mechanism for variation of the distance between breastbeam and bac
beam. 4,660,604, 4-28-87, Cl. 139-29.000.

Feist, Heinz-Rudi; Buchwald, Hans; Raschkowski, Boleslaus; and R
dolph, Werner, to Kali-Chemie Aktiengesellschaft. Process for pr
ducing novel products by hydrogen fluoride with esters of fatty acid
4,659,493, 4-21-87, Cl. 252-54.600.

Feist, Wolfgang M., to Raytheon Company. Semiconductor structu
and manufacturing method. 4,677,456, 6-30-87, Cl. 357-50.000.

Feistel, Karl H., to Karl-Heinz Feistel. Active fourth-degree filt
element. 4,659,995, 4-21-87, Cl. 328-167.000.

Feitler, David; Schimming, Wolfgang; and Wetstein, Henry, to Neper
Inc. Process for the production of pyridine or alkyl substituted pyr
dines. 4,675,410, 6-23-87, Cl. 546-251.000.

Fejer, Martin M.; Magel, Gregory A.; and Byer, Robert L., to Lelan
Standford Jr. University, The Board of Trustees of the. Method an
means for high resolution measurement of fiber diameter. 4,650,32
3-17-87, Cl. 356-73.100.

Fejes, Julius, to Flo-Tork, Inc. Rotary actuator having integral pist
assembly with floating rack. 4,683,805, 8-4-87, Cl. 92-129.000.

Fejes, Peter; and Hallden, Eva, to AB Asea-Atom. Electrode for ele
trochemical measurements in aqueous solutions of high temperature
4,636,292, 1-13-87, Cl. 204-404.000.

Fejes, Peter; and Ivars, Roland, to AB Asea-Atom. Method and
device for analyzing water in the primary circuit of a nuclear reacto
4,654,187, 3-31-87, Cl. 376-245.000.

Fejes, Peter; and Suvanto, Antti, to AB Asea-Atom. Method for loc
cleaning of surfaces on a nuclear reactor which are coated wi
oxides or other corrosion products, in connection with inspectio
4,661,220, 4-28-87, Cl. 204-141.500.

Fekete, Amnon V., to Intevep, S.A. Plunger with simple retentio
valve. 4,708,597, 11-24-87, Cl. 417-259.000.

Fekete, Denes. Composite optical image projection system. 4,645,31
2-24-87, Cl. 353-31.000.

Fekete, Gyorgy: *See—*

Keve, Tibor; Zsadon, Bela; Fekete, Gyorgy; Galambos, Jan
Barta nee Bukovecz, Margit; Szporny, Laszlo; Forgacs, Lil
Kiraly, Arpad; Soos, Gyongyver; Kiss, Bela; and Zajer n
Balazs, Maria, 4,680,397, Cl. 546-51.000.

Toth, Edit; Torley, Jozsef; Fekete, Gyorgy; Szporny, Lasz
Vereczkey, Laszlo; Palosi, Eva; Klebovich, Imre; Vittay, P
Gorog, Sandor; and Hajdu, Istvan, 4,645,779, Cl. 514-648.000.

Fekete, Pal: *See—*

Bezzegh, Denes; Fekete, Pal; Toth, Zoltan; Bor, Ilona; and Fellne
Erzsebet, 4,647,599, Cl. 523-105.000.

Fekkes, Wilhelmus F.: *See—*

Geerings, Michael P. W.; Christis, Wilhelmus J.; Fekkes, Wilhe
mus F.; and Schmitz, Herman J. R., 4,697,046, Cl. 178-1.000.

Schmitz, Herman J. R.; Annegarn, Marcellinus J. J. C.; and Fekke
Wilhelmus F., 4,679,083, Cl. 358-147.000.

Fel-Pro Incorporated: *See—*

Locacius, Robert F.; and Zelenka, Terence, 4,705,278, Cl. 2
235.00B.

Felasto Pur GmbH & Co. KG: *See—*

Cerding, Horst, 4,705,325, Cl. 305-35.00R.

Felcht, Uth H.: *See—*

Wallisch, Heinz; Felcht, Uth H.; and Kostrzewa, Micha
4,672,113, Cl. 536-85.000.

Felcht, Utz-Hellmuth; and Buchberger, Gerhard, to Hoechst Akti
gesellschaft. Preparation of water-soluble mixed cellulose ethe
4,650,863, 3-17-87, Cl. 536-90.000.

Felcht, Utz-Hellmuth: *See—*

Brandt, Lothar; and Felcht, Utz-Hellmuth, 4,638,058,
536-103.000.

Felco Industries, Ltd.: *See—*

Caplis, Thomas J.; and Zbitnoff, John, 4,698,926, Cl. 37-197.00

Feld, David; and Soto, Toby A., to Surgikos, Inc. Antimicrobial dre
ing. 4,643,180, 2-17-87, Cl. 128-156.000.

Feld, Gerhard: *See—*
  Schmidt-Kufeke, Klaus-Peter, and Feld, Gerhard, 4,640,803, Cl. 261-64.300.
Feld, Michael S.: *See—*
  Kittrell, Carter; Hayes, Gary B.; and Feld, Michael S., 4,648,892, Cl. 65-4.210.
  Willett, Robert L.; Cothren, Robert M., Jr.; Kittrell, Carter; and Feld, Michael S., 4,669,467, Cl. 128-303.100.
Feld, Oscar. Inflatable umbrella. 4,643,210, 2-17-87, Cl. 135-20.00B.
Feld, Thomas A.; Juri, Pedro N., and Treher, Elizabeth N., to E. R. Squibb & Sons, Inc. Technetium-99m labeled dioxime complexes. 4,714,605, 12-22-87, Cl. 424-1.100.
Feld, Thomas A.: *See—*
  Nunn, Adrian D.; Feld, Thomas A.; and Treher, Elizabeth N., 4,705,849, Cl. 534-14.000.
Feldberg, Leonard; and Williams, Dennis, to Burndy Corporation. Communications connector. 4,676,576, 6-30-87, Cl. 439-404.000.
Felder, Willie L. Bicycle handlebar light. 4,656,564, 4-7-87, Cl. 362-72.000.
Felder, Willie L. Bicycle rack with safety light. 4,711,381, 12-8-87, Cl. 224-39.000.
Feldewert, Herbert, to Wilhelm Hegenscheidt GmbH. Material saving method for truing track wheels. 4,680,846, 7-21-87, Cl. 29-168.000.
Feldhacker, Marvin E.: *See—*
  Byerly, Kent A.; Feldhacker, Marvin E.; and Grant, Duane E., 4,692,877, Cl. 364-514.000.
Feldkamper, Richard, to Windmoller & Holscher. Apparatus for testing the base-folding of bases formed on tube sections. 4,645,339, 2-24-87, Cl. 356-237.000.
Feldkamper, Richard, to Windmoller & Holscher. Apparatus for pushing stacks or packs from a support. 4,671,723, 6-9-87, Cl. 414-114.000.
Feldkircher Wire Fabricating Co., Inc.: *See—*
  Worzek, Michael, 4,648,203, Cl. 47-32.000.
Feldkirchner, Heinz; and Riquarts, Hans-Peter, to Linde Aktiengesellschaft. System to clear particles from outlet in activated sludge process. 4,663,046, 5-5-87, Cl. 210-616.000.
Feldman, Albert: *See—*
  Blackburn, Douglas; Feldman, Albert; and Lagakos, Nicholas, 4,709,987, Cl. 350-96.340.
Feldman, Donald W.: *See—*
  Liu, Chi-Sheng; and Feldman, Donald W., 4,661,963, Cl. 372-59.000.
  Ryan, Frederick M.; Gottlieb, Milton; and Feldman, Donald W., 4,705,362, Cl. 350-372.000.
Feldman, Fred: *See—*
  Chandra, Sudhish; and Feldman, Fred, 4,673,733, Cl. 530-344.000.
Feldman, Joachim; and Schult, Manfred, to WABCO Westinghouse Fahrzeugbremsen GmbH. Overload protection and/or warning arrangement. 4,708,225, 11-24-87, Cl. 188-1.110.
Feldman, Joel A.; and Hofstetter, Edward M., to Massachusetts Institute of Technology. Voice encoder and synthesizer. 4,710,959, 12-1-87, Cl. 381-36.000.
Feldman, Louis W.; and Yawn, David H., to Cardiovascular Systems, Inc. Centrifuge. 4,684,361, 8-4-87, Cl. 494-41.000.
Feldman, Louis W.; and Yawn, David H., to Cardiovascular Systems Inc. Centrifuge. 4,692,136, 9-8-87, Cl. 494-38.000.
Feldman, Martin, to AT&T Bell Laboratories. Two-dimensional imaging with line arrays. 4,636,080, 1-13-87, Cl. 356-401.000.
Feldman, Nancy A., to Betz Laboratories, Inc. Method of scavenging oxygen from aqueous mediums. 4,657,740, 4-14-87, Cl. 422-13.000.
Feldman, Nancy A., to Betz Laboratories, Inc. Method of scavenging oxygen from aqueous mediums. 4,693,866, 9-15-87, Cl. 422-13.000.
Feldman, Neil: *See—*
  Nichols, William E.; Herzog, William F.; Feldman, Neil; and Laumeister, William, 4,698,664, Cl. 358-10.000.
Feldman, Nicholas; and Frankenfeld, John W., to Exxon Research & Engineering Co. Pour depressant. 4,634,550, 1-6-87, Cl. 252-56.00D.
Feldman, Paul H., to Hazeltine Corporation. Testing of RF diode phase shifters. 4,697,141, 9-29-87, Cl. 324-158.00R.
Feldman, Rubin: *See—*
  Parker, John A.; Feldman, Rubin; and Bryant, Robert L., 4,687,651, Cl. 423-315.000.
  Parker, John A.; Feldman, Rubin; and Bryant, Robert L., 4,687,785, Cl. 521-106.000.
Feldman, Sidney H., to Microdot Inc. Capped nut. 4,669,937, 6-2-87, Cl. 411-429.000.
Feldman, Steven, and Jones, Marvin H., to AMP Incorporated. Raintight junction box. 4,654,470, 3-31-87, Cl. 174-50.000.
Feldman, Steven; and Tennant, Robert J., to AMP Incorporated. Surface mount, miniature connector. 4,695,106, 9-22-87, Cl. 439-83.000.
Feldmann, Hansueli; and Brandli, Max, to Inventio AG. Collision protection device for industrial vehicles, especially industrial trucks. 4,635,982, 1-13-87, Cl. 293-2.000.
Feldmann, Hansueli: *See—*
  Brandli, Max; and Feldmann, Hansueli, 4,690,422, Cl. 280-460.00R.
Feldmann, Hugo; Svagr, Alexandr; and Hartmann, Hans-Heinrich, to SMS Schloemann-Siemag AG. Rolling stand. 4,653,304, 3-31-87, Cl. 72-239.000.
Feldmann, Joachim, to WABCO Westinghouse Fahrzeugbremsen GmbH. Fastener arrangement for deformation sensor. 4,677,857, 7-7-87, Cl. 73-855.000.
Feldmann, Michel; and Le Goff epouse Henaff, Jeannine. Flat screen display system using a two-dimension surface acoustic wave (SAW) scanning. 4,654,715, 3-31-87, Cl. 358-230.000.
Feldmann, Rainer; and Hess, Gunter, to Huls Aktiengesellschaft. Pulverulent polyamide coating compositions wherein the polyamide has as an average at least nine carbon atoms per carbonamide group. 4,661,585, 4-28-87, Cl. 528-502.000.
Feldmann, Rainer: *See—*
  Mumcu, Salih; and Feldmann, Rainer, 4,689,361, Cl. 524-196.000.
Feldmeier, Toni: *See—*
  Bechler, Jurgen; and Feldmeier, Toni, 4,699,384, Cl. 273-186.00C.
Feldmuehle Aktiengesellschaft: *See—*
  Eikmeyer, Peter, 4,634,281, Cl. 356-431.000.
  Fingerle, Dieter; and Habel, Gernot, 4,643,144, Cl. 123-90.390.
  Madzgalla, Hans-Georg, 4,688,356, Cl. 51-391.000.
  Plischka, Gerhard, 4,668,191, Cl. 433-174.000.
  Zichner, Ludwig; Dorre, Erhard; Prussner, Peter; and von Borries, Horst, 4,662,889, Cl. 623-20.000.
Feldner, Raymond. Electrical lock. 4,674,813, 6-23-87, Cl. 439-133.000.
Feldstein, Neil A.: *See—*
  Kende, Andrew S.; Curran, Dennis P.; King, Margaret L.; and Feldstein, Neil A., 4,667,043, Cl. 547-445.000.
Feldt, Gary: *See—*
  Dirkin, William; and Feldt, Gary, 4,684,280, Cl. 403-157.000.
Feldt, Mats, to Landstingens Inkopscentral LIC, Ekonomisk Forening. Delivery bed. 4,682,376, 7-28-87, Cl. 5-60.000.
Felgendreger, Alfred F.; Nevers, Ashley D.; and Tuszynski, William J., to Pennwalt Corporation. Electrolytic recovery of lead from scrap. 4,650,553, 3-17-87, Cl. 204-114.000.
Felice, Christopher G.: *See—*
  Janashak, Robert J.; Felice, Christopher G.; and Akeel, Hadi A., 4,708,175, Cl. 141-1.000.
Feliks, James J.; and Culpepper, Will L., to Mead Corporation, The. Feeder mechanism. 4,674,935, 6-23-87, Cl. 414-128.000.
Feliks, James J.; Culpepper, Will L.; and Scott, Dale K., to Mead Corporation, The. Conveying system for removing containers from a packaging machine. 4,705,159, 11-10-87, Cl. 198-468.800.
Felix, Arthur, Jr.: *See—*
  McRoberts, Louis A.; and Felix, Arthur, Jr., 4,694,300, Cl. 342-195.000.
Felix, Arthur M.; Heimer, Edgar P.; and Mowles, Thomas F., to Hoffmann-La Roche Inc. Growth hormone releasing factor analogs. 4,649,131, 3-10-87, Cl. 514-12.000.
Felix, Ernst; and Feller, Peter, to Zellweger Uster Ltd. Method and device for the optimization of the drawing process on autoleveller drawframes in the textile industry. 4,653,153, 3-31-87, Cl. 19-240.000.
Felix, Pierre: *See—*
  Amingual, Daniel; and Felix, Pierre, 4,675,525, Cl. 250-338.000.
Felix, Raymond A., and Teach, Eugene G., to Stauffer Chemical Company. Oxazolidone herbicides and methods of use. 4,650,512, 3-17-87, Cl. 71-88.000.
Felix, Raymond A., to Stauffer Chemical Company. Herbicidal phosphonomethyl amides. 4,654,072, 3-31-87, Cl. 71-86.000.
Felix Schoeller Jr. GmbH & Co., KG: *See—*
  Anthonsen, Reiner; Fertesz, Ferencz; Trentmann, Heinz; and Sack, Wieland, 4,663,236, Cl. 428-482.000.
  Sack, Wieland; and Anthonsen, Reiner, 4,665,013, Cl. 430-532.000.
  Von Meer, Walter P. M., 4,675,245, Cl. 428-328.000.
Felix Scholler Jr. GmbH & Co., KG: *See—*
  Anthonsen, Reiner; Sack, Wieland; Trentmann, Heinz; and Wollmer, Hans-Georg, 4,645,736, Cl. 430-538.000.
Felix, Willi. Web tension controller. 4,657,164, 4-14-87, Cl. 226-42.000.
Feliz, Jack M. Champagne bottle opener. 4,680,993, 7-21-87, Cl. 81-3.370.
Felker, R. Guy. Technique for repairing undersides of vehicles. 4,664,209, 5-12-87, Cl. 180-90.600.
Fell, Ferol S.: *See—*
  Guinn, Ronald K.; and Fell, Ferol S., 4,637,406, Cl. 130-27.00R.
Fell, Stephen A.: *See—*
  Eccles, Harry; and Fell, Stephen A., 4,693,795, Cl. 204-94.000.
Felle, Hellmut, to Ciba-Geigy Corporation. Continuous process for dyeing cellulose/polyamide blends: thermobol pad liquor containing nonionic surfactant. 4,654,046, 3-31-87, Cl. 8-531.000.
Felle, Karl: *See—*
  Ackermann, Fritz; Felle, Karl; and Hobbie, Dierk, 4,669,048, Cl. 364-525.000.
Felleisen, Peter; Krug, Aribert; and Grosshans, Peter, to BASF Aktiengesellschaft. Method and circuit arrangements for detecting and evaluating faults in recording media having digital signals recorded on one or more tracks. 4,656,420, 4-7-87, Cl. 324-212.000.
Fellen, Lucie: *See—*
  Ouhadi, Trazollah; Dehan, Louis; and Fellen, Lucie, 4,647,393, Cl. 252-102.000.
Feller AG: *See—*
  Max, Jean-Joseph; and Shah, Arvind, 4,683,450, Cl. 333-202.000.
Feller, Antal: *See—*
  Lempert, Karoly; Hornyak, Gyula; Bartha, Ferenc; Doleschall, Gabor; Fetter, Jozsef; Nyitrai, Jozsef; Simig, Gyula; Zauer, Karoly; Huszthy, Peter; Feller, Antal; Petocz, Lujza; Szirt, Eniko; Grasser, Katalin; Berenyi, Edit; Orr, Zsuzsanna; and Pjeczka, Etelka, 4,665,083, Cl. 514-370.000.
Feller, Duane D.; and Shaug, Richard P. Plastic fence post bottom repair device. 4,646,489, 3-3-87, Cl. 52-165.000.
Feller, Gilbert M.: *See—*
  Stalier, Joseph F., deceased; and Feller, Gilbert M., 4,683,021, Cl. 156-415.000.
Feller, Marc E., to Societe de Developpement et Recherches en Machinisme Agricole - Solerma. Drop planter. 4,664,043, 5-12-87, Cl. 111-51.000.

Feller, Murray D.; and Ostick, Colin, to Novacorp International Consulting Ltd. High pressure, multiple passage swivel. 4,669,758, 6-2-87, Cl. 285-94.000.
Feller, Murray F. Flow sensors. 4,649,756, 3-17-87, Cl. 73-861.830.
Feller, Otto; Brocksieper, Manfred; and Luckger, Rolf, to Goetze AG Method and apparatus for machining the circumference of out-of-round workpieces, particularly piston rings. 4,679,472, 7-14-87, Cl. 82-19.000.
Feller, Peter: *See—*
  Felix, Ernst; and Feller, Peter, 4,653,153, Cl. 19-240.000.
Feller, William F.; and Kantor, Judith A., to Georgetown University. Breast cancer diagnostic blood test. 4,657,851, 4-14-87, Cl. 435-7.000.
Feller, Wolfgang: *See—*
  Schmidt, Karl-Heinz; and Feller, Wolfgang, 4,698,387, Cl. 525-54.100.
Fellerer, Josef, to Siemens Aktiengesellschaft. Method for the intermediate storage of facsimile data of groups 2 and 3. 4,677,492, 6-30-87, Cl. 358-257.000.
Fellers, Christer; Htun, Myat; and Hansson, Torbjorn, to Flakt AB. Method for controlling shrinkage and/or stretching of a paper web in the drying section of paper machine, in the form of a cylinder drier and/or fan dryer, transversely to the feed direction of the web and arrangements for carrying out the method. 4,680,873, 7-21-87, Cl. 34-116.000.
Fellinger, Christine: *See—*
  Einzinger, Josef; Fellinger, Christine; Leipold, Ludwig; Tihanyi, Jenoe; and Weber, Roland, 4,677,325, Cl. 307-574.000.
  Einzinger, Josef; Fellinger, Christine; Leipold, Ludwig; Tihanyi, Jenoe; and Weber, Roland, 4,691,129, Cl. 307-581.000.
  Stengl, Reinhard; Goesele, Ulrich; and Fellinger, Christine, 4,672,738, Cl. 29-576.00B.
  Tihanyi, Jenoe; Fellinger, Christine; and Leipold, Ludwig, 4,688,071, Cl. 357-41.000.
Fellinger, Michael W.: *See—*
  Selby, Howard W., III; and Fellinger, Michael W., 4,677,604, Cl. 369-33.000.
Fellman, Jack D.: *See—*
  Beach, Sidney C.; and Fellman, Jack D., 4,673,469, Cl. 204-38.400.
Fellman, Raimo; and Niskanen, Toivo J., to A. Ahlstrom Corporation. Apparatus for separating gas from a fibre suspension. 4,675,033, 6-23-87, Cl. 55-203.000.
Fellner, Erzsebet: *See—*
  Bezzegh, Denes, Fekete, Pal; Toth, Zoltan; Bor, Ilona; and Fellner, Erzsebet, 4,647,599, Cl. 523-105.000.
Fellner, Peter J.; Lai, Mun F.; and Patel, Thakorbhai P., to G. D. Searle & Co. Imidazole derivatives and pharmaceutical compositions 4,636,518, 1-13-87, Cl. 514-397.000.
Fellows, Adrian N., to Fibre Treatments (Holding) Limited. Impregnated substrate incorporating an indicator dye. 4,678,704, 7-7-87, Cl. 428-289.000.
Fellows, Constance A.; and Fu, Wallace Y., to Union Carbide Corporation. Intermediate, its synthesis, and its use in a process for the preparation of 2,3-dihydro-2,2-dimethyl-7-hydroxybenzofuran. 4,639,536, 1-27-87, Cl. 549-462.000.
Fellows, Mark W.: *See—*
  Stupp, Edward H.; and Fellows, Mark W., 4,698,554, Cl. 315-307.000.
  Stupp, Edward H.; and Fellows, Mark W., 4,700,113, Cl. 315-224.000.
  Stupp, Edward H.; Fellows, Mark W.; and Steneck, Walter G., 4,701,671, Cl. 315-224.000.
Fellows, Oscar L. Thermomotor. 4,677,825, 7-7-87, Cl. 60-525.000.
Felmlee, Joel P.: *See—*
  Ehman, Richard L.; and Felmlee, Joel P., 4,715,383, Cl. 128-653.000.
Felps, Jimmie D., to Hewlett Packard Company. Regulated DC power supply. 4,658,341, 4-14-87, Cl. 363-21.000.
Fels, Christopher; and Fels, David. Alpine ski. 4,715,612, 12-29-87, Cl. 280-609.000.
Fels, David: *See—*
  Fels, Christopher; and Fels, David, 4,715,612, Cl. 280-609.000.
Felsch, Bernhard: *See—*
  Czernakowski, Waldemar; Wetter, Hermann; and Felsch, Bernhard, 4,653,809, Cl. 297-487.000.
  Klanner, Wilfried; Schmaler, Dieter H.; Wetter, Hermann; Felsch, Bernhard; and Czernakowski, Waldemar, 4,687,255, Cl. 297-488.000.
Felsenthal, Donald; and Schachter, Max, to Whitmor Manufacturing Co., Inc. Garment bag adapted for use with ventilated shelving. 4,688,671, 8-25-87, Cl. 206-279.000.
Felser Forest Products, Inc: *See—*
  Felser, Theodore P., 4,640,069, Cl. 52-233.000.
Felser, Theodore P., to Felser Forest Products, Inc. Method and apparatus for construction of buildings to give the appearance of full log construction. 4,640,069, 2-3-87, Cl. 52-233.000.
Felske, Arthur M.: *See—*
  Harlow, Albert L., Jr.; and Felske, Arthur M., 4,714,192, Cl. 232-17.000.
Felstehausen, Eugene F., to Zisook, Sheldon O. Extrusion apparatus for ground meat. 4,667,369, 5-26-87, Cl. 17-32.000.
Felt Products Mfg. Co.: *See—*
  Cobb, David A., 4,676,515, Cl. 277-235.00B.
  Inciong, Josefino T.; and Widder, Edward S., 4,655,463, Cl. 277-180.000.
  McDowell, Donald J.; and Cooper, Jerri L., 4,659,410, Cl. 156-277.000.
  Rosenquist, Gerald A., 4,662,643, Cl. 277-235.00B.
Felten, Gilbert, to Goodyear Tire & Rubber Company, The. Actuator for movement of a tool and a tire carcass transfer device utilizing the actuator. 4,667,574, 5-26-87, Cl. 92-85.00A.
Felten & Guilleaume Energietechnik GmbH: *See—*
  Dirks, Rolf, 4,674,305, Cl. 70-139.000.
  Levacher, Friedrich K.; and Federmann, Helmut, 4,634,217, Cl. 350-96.230.
Felten, Klaus; Honroth, Walter; Kuhn, Siegfried; Schulten, Hermann; and Zeller, Bruno, to Oerlikon-Boehringer GmbH. Lathe having an integrated chuck. 4,696,209, 9-29-87, Cl. 82-40.00R.
Felter, John V. Tilt up concrete wall panel system. 4,659,057, 4-21-87, Cl. 249-97.000.
Feluwa Schlesiger & Co. KG: *See—*
  Schlesiger, Jost, 4,655,916, Cl. 210-173.000.
Femco Machine Co.: *See—*
  Amundson, Frank M.; Manners, Herbert C.; and Jeffries, Paul M., 4,663,995, Cl. 81-45.000.
Femino, John A.; Mitchener, Wilbur E.; Moss, Roy D.; and Stevens, Albert. Waterbed mattress heater. 4,652,726, 3-24-87, Cl. 219-217.000.
Fender, C. Leo. Method of assembling a musical instrument neck 4,670,955, 6-9-87, Cl. 29-169.500.
Fender, C. Leo. Vibrato assembly. 4,671,157, 6-9-87, Cl. 84-313.000.
Fender, C. Leo. Tuning system for vibrato guitar with string lock 4,674,389, 6-23-87, Cl. 84-313.000.
Fender, C. Leo. Electromagnetic pickup for stringed musical instruments. 4,686,881, 8-18-87, Cl. 84-1.150.
Fender, Janet S.; Cusumano, Salvatore J.; Butts, Robert R.; and DeHa naut, Christopher R., to United States of America, Air Force. Optically phased laser transmitter. 4,639,586, 1-27-87, Cl. 250-201.000.
Fender Musical Instruments Corporation: *See—*
  Gressett, Charles A., Jr.; Page, John F.; Smith, Daniel J.; and Carruthers, John, 4,677,891, Cl. 84-313.000.
Fender, Norman N., to Graco Robotics, Inc. Modular robotic finishing work center. 4,644,897, 2-24-87, Cl. 118-323.000.
Fender, Norman N., to Graco Robotics, Inc. Universal coupling 4,673,376, 6-16-87, Cl. 464-158.000.
Fender, Norman N.: *See—*
  Mommsen, Gordon V.; Fender, Norman N.; Karwoski, Stanley G.; Scherer, William C.; and Lind, Robert J., 4,679,734, Cl. 239-692.000.
Fendley, James R., to Zenith Electronics Corporation. CRT color convergence measurement. 4,686,429, 8-11-87, Cl. 315-368.000.
Fendley, James R., to Zenith Electronics Corporation. Color CRT purity measurement. 4,688,079, 8-18-87, Cl. 358-10.000.
Fendley, James R., to Zenith Electronics Corporation. Tension shadow mask support structure. 4,695,761, 9-22-87, Cl. 313-407.000.
Fendley, James R.; and Greiner, Siegfried M., to Zenith Electronics Corporation. Faceplate assembly for securing a tension mask support structure to a faceplate. 4,716,334, 12-29-87, Cl. 313-407.000.
Fendley, James R.: *See—*
  Dougherty, Lawrence W.; and Fendley, James R., 4,710,670, Cl. 313-407.000.
Fenerty, Stanley W. Wood holder. 4,641,822, 2-10-87, Cl. 269-296.000.
Feng, Chung L.; and Yang, Ching-Wen, to Manley, Inc. Cross flow continuous fryer. 4,706,557, 11-17-87, Cl. 99-355.000.
Feng, I-an, to Xerox Corporation. Thermal printing circuit. 4,638,33 1-20-87, Cl. 346-76.0PH.
Feng, I-Ming. Keyboard device for inputting oriental characters by touch. 4,669,901, 6-2-87, Cl. 400-484.000.
Feng, Lung S. Press fastener. 4,679,282, 7-14-87, Cl. 24-614.000.
Fengler, Horst. Sheetholder. 4,656,764, 4-14-87, Cl. 40-122.000.
Fenicle, Theodore W.: *See—*
  Schmidt, Manfred; and Fenicle, Theodore W., 4,715,586, Cl. 266-275.000.
Feniou, Claude; and Descas, Patrick, to Societe Cortial, S.A. Method of producing the p-chlorophenol ester of p-chlorophenoxyisobutyric acid. 4,638,082, 1-20-87, Cl. 560-62.000.
Feniou, Claude: *See—*
  Creuzet, Marie-Helene; Feniou, Claude; Guichard, Francoise; Pontagnier, Henri; and Prat, Gisele, 4,698,343, Cl. 514-255.000.
  Pontagnier, Henri; Creuzet, Marie-Helene; Feniou, Claude; Guichard, Francoise; and Prat, Gisele, 4,668,681, Cl. 514-255.000.
Fenk, Josef, to Siemens Aktiengesellschaft. Oscillator mixer circuit with reaction-tree coupling. 4,635,003, 1-6-87, Cl. 332-16.00R.
Fenn & Company: *See—*
  Fenn, George S., 4,673,579, Cl. 426-321.000.
Fenn, George S., to Fenn & Company. Method of drying plants having stems and leaves. 4,673,579, 6-16-87, Cl. 426-321.000.
Fenn, Philip M.: *See—*
  Chyung, Kenneth; Fenn, Philip M.; and Taylor, Mark P., 4,707,458, Cl. 501-4.000.
Fenn, Robert W., III; Pless, Emory J.; Harris, Richard L.; and O'Leary, Kevin, to ELTECH Systems Corporation. Dimensionally stable asbestos diaphragm coated foraminous cathode. 4,701,250, 10-20-87, Cl. 204-283.000.
Fenn, Ronald L.; and Romanowitz, Harold M., to AMCA International Corporation. Automated in-process pipe storage and retrieval system 4,642,017, 2-10-87, Cl. 414-348.000.
Fenne, Kenneth R.; Steward, Wayne D.; and Didyk, Witalij, to Pittway Corporation. Three position switch for portable, rechargeable device. 4,647,832, 3-3-87, Cl. 320-2.000.
Fennekels, Peter; Waltmann, Ernst; and Schumacher, Walter, to Girmes-Werke AG. Heating element for textiles. 4,713,531, 12-15-87, Cl. 219-545.000.

Fennel, Helmut; and Wupper, Hans, to Alfred Teves GmbH. Circuit configuration for a slip-controlled vehicle brake system. 4,648,662, 3-10-87, Cl. 303-92.000.

Fennel, Helmut; and Batistic, Ivica, to Alfred Teves GmbH. Slip-controlled brake system for road vehicles. 4,657,313, 4-14-87, Cl. 303-96.000.

Fennel, Helmut, to ITT Industries, Inc. Method for the generation of a vehicle reference speed as a reference value for the control of brake slip and/or traction slip. 4,675,819, 6-23-87, Cl. 364-426.000.

Fennel, Helmut; Batistic, Ivica; and Determann, Otto, to Alfred Teves GmbH. Slip-controlled brake system for motor vehicles. 4,688,858, 8-25-87, Cl. 303-6.00R.

Fennel, Helmut, to ITT Industries, Inc. Method and circuit configuration for suppressing undesired control actions in slip-controlled brake systems. 4,701,855, 10-20-87, Cl. 364-426.000.

Fennel, Helmut: *See—*
Belart, Juan; Fennel, Helmut; Seibert, Wolfram; and Batistic, Ivica, 4,643,492, Cl. 303-119.000.

Fennell, Lillie. Compartmentalized portable garden with raised center. 4,685,246, 8-11-87, Cl. 47-66.000.

Fennell, Michael P. Bundling tie. 4,700,432, 10-20-87, Cl. 24-16.00R.

Fennemann, Wolfgang, to Metallgesellschaft Aktiengesellschaft. Process of producing a V_2O_5-and-alkali-metal-sulfate-containing catalyst for oxidizing SO_2 to SO_3. 4,680,281, 7-14-87, Cl. 502-218.000.

Fenner, Brian A., to Cornell Research Foundation, Inc. Vehicle door unlocking device. 4,706,525, 11-17-87, Cl. 81-15.900.

Fenner, Edwin H. Portable platform assembly for dancers and the like. 4,696,470, 9-29-87, Cl. 272-144.000.

Fenner, Gordon H.; and Brown, Ronald L., to Marathon Corporation. Process for monitoring the fullness of a compactor. 4,643,087, 2-17-87, Cl. 100-35.000.

Fenner, Hans: *See—*
Hortmann, Guenther; Kunick, Klaus; and Fenner, Hans, 4,696,287, Cl. 128-1.00R.

Fennesz, Manfred. System for tempering a room. 4,646,814, 3-3-87, Cl. 165-56.000.

Fennig, Jeffrey A.: *See—*
Fruehan, Mark T.; Fennig, Jeffrey A.; and Kapadia, Jayant K., 4,679,508, Cl. 105-341.000.

Fenrich, William G., to Brunswick Corporation. Staged hydraulic trim-tilt system. 4,687,449, 8-18-87, Cl. 440-61.000.

Fenske, Dale. Bait container. 4,697,380, 10-6-87, Cl. 43-55.000.

Fenske, Horst; Hertrich, Klaus; and Storr, Rudolf, to VEB Kombinat Polygraph "Werner Lamberz" Leipzig. Synchronizing device for electrically actuated coupling. 4,652,746, 3-24-87, Cl. 250-231.0SE.

Fenske, Jurgen: *See—*
Spielau, Paul; Kuhnel, Werner; Klaar, Karlo; Gaspar, Bertram; Weiss, Richard; Ulb, Horst; Breitscheidel, Hans-Ulrich; Klingberg, Gerd; and Fenske, Jurgen, 4,652,326, Cl. 156-244.110.

Fenske, Steven L.: *See—*
Cole, William M.; Fenske, Steven L.; Serbin, David J.; Malani, Shrikant R.; Clark, Frank J.; and Beattie, Joanne L., 4,681,929, Cl. 528-493.000.

Fenster, Aaron; Hobbs, Barry B.; and Cunningham, Ian A. System for quantitative arteriography. 4,669,105, 5-26-87, Cl. 378-146.000.

Fenster, Paul; Shimoni, Yair; Nissenson, Bilha; and Alperin, Noam. Misregistration correction. 4,641,352, 2-3-87, Cl. 382-6.000.

Fenster, Paul; and Shimoni, Yair, to Elscint Ltd. Automatic misregistration correction. 4,685,146, 8-4-87, Cl. 382-54.000.

Fenster, Paul; and Shimoni, Yair, to Elscint Ltd. Image enhancement. 4,691,366, 9-1-87, Cl. 382-54.000.

Fenster, Paul; and Ganor, Zeev, to Elscint Ltd. Power line locked image processing systems. 4,694,339, 9-15-87, Cl. 358-148.000.

Fenster, Paul: *See—*
Shimoni, Yair; and Fenster, Paul, 4,654,877, Cl. 382-56.000.
Shimoni, Yair; Fenster, Paul; and Nissenson, Bilha, 4,692,864, Cl. 364-414.000.

Fensterer, Howard F.; Klassen, William E.; Veronesi, Luciano; Boyle, David E.; and Salton, Robert B., to Westinghouse Electric Corp. Fluid moderator control system reactor internals distribution system. 4,661,306, 4-28-87, Cl. 376-209.000.

Fensterer, Howard F.: *See—*
Sherwood, Donald G.; Wilson, John F.; Salton, Robert B.; and Fensterer, Howard F., 4,692,296, Cl. 376-209.000.

Fenton, Donald M.; Holm, LeRoy W.; and Saunders, Dennis L., to Union Oil Company of California. Groundwater pollution abatement. 4,664,809, 5-12-87, Cl. 210-663.000.

Fenton, John W. Continuously variable transmission. 4,660,427, 4-28-87, Cl. 74-63.000.

Fenton, Leonard, to Marlen Manufacturing and Development Co. Ostomy pouch irrigator. 4,654,037, 3-31-87, Cl. 604-334.000.

Fenton, Paul V., Jr.; Young, Thomas M.; Adaniya, George; Denis, Richard E.; Miller, Robert L.; and Santin, Ernest M., to Strato Medical Corporation. Infusion device. 4,652,260, 3-24-87, Cl. 604-67.000.

Fenton, Paul V., Jr.; and Young, Thomas M., to Strato Medical Corporation. Implantable treatment reservoir. 4,673,394, 6-16-87, Cl. 604-175.000.

Fenton, Paul V., Jr.; Miller, Robert L.; and Santin, Ernest M., to Strato Medical Corporation. Infusion device. 4,681,566, 7-21-87, Cl. 604-135.000.

Fenton, Ronald L.; and Sames, William C. Fuel tank vaporization and explosion resistant apparatus. 4,673,098, 6-16-87, Cl. 220-88.00A.

Fentress, Philip W.; Kenley, Rodney S.; and Schnell, William J., to Baxter Travenol Laboratories, Inc. System and apparatus for disinfecting, for reuse, separation devices for blood and associated fluid lines. 4,707,335, 11-17-87, Cl. 422-44.000.

Fentress, Vernon A.; and Dawson, Darryl A. Method and apparatus for installing fiber optic cables. 4,711,517, 12-8-87, Cl. 350-96.200.

Fenwick, David, to Airus Incorporated. Dynamic input processing system. 4,704,703, 11-3-87, Cl. 364-900.000.

Fenwick, James R., to Rockwell International Corporation. Self-adjusting ball bearing cage. 4,653,938, 3-31-87, Cl. 384-533.000.

Fenwick, Jay G., to Joyce International, Inc. Merchandising rack. 4,693,383, 9-15-87, Cl. 211-192.000.

Fenwick, Robert R.: *See—*
Harvey, Ross H.; Wobcke, Graham W.; Rogers, Antony W.; and Fenwick, Robert R., 4,650,579, Cl. 210-199.000.

Fenyo, Marta; Kertesz, Ivan; Rozsa, Karoly; and Szego, Peter. Method and apparatus for promoting healing. 4,686,986, 8-18-87, Cl. 128-396.000.

Fenzl, Horst, to Durkoppwerke GmbH. Workpiece guide rail including sewing material stretching device. 4,644,882, 2-24-87, Cl. 112-121.260.

Fenzl, Horst: *See—*
Kupper, Gerd; Fenzl, Horst; and Zabinski, Siegfried, 4,655,730, Cl. 474-53.000.

Fenzy S.A.: *See—*
Biard, Jacques, 4,693,242, Cl. 128-204.260.

Feofanov, Vitaly A.; Pilat, Boris V.; Zhdanovich, Larisa P.; Romanenko, Anatoly G.; Lukhanin, Boris S.; Donets, Oleg V.; and Korobochkin, Valery P., to Gosudarstvenny Nauchno-Issledovatelsky I Proektny Institut PO Obogascheniju Rud Tsvetnykh Metallov "Kazmekhanobr". Apparatus for purifying effluents and liquids. 4,655,895, 4-7-87, Cl. 204-213.000.

Ferag AG: *See—*
Gerber, Walter, 4,637,198, Cl. 53-430.000.
Gerber, Walter, 4,697,400, Cl. 53-118.000.
Hansch, Egon, 4,657,237, Cl. 271-178.000.
Hansch, Egon, 4,684,116, Cl. 270-54.000.
Honegger, Werner, 4,641,795, Cl. 242-59.000.
Honegger, Werner, 4,651,939, Cl. 242-55.000.
Honegger, Werner, 4,676,496, Cl. 271-9.000.
Honegger, Werner, 4,682,741, Cl. 242-55.000.
Honegger, Werner; and Hansch, Egon, 4,684,117, Cl. 270-54.000.
Honegger, Werner, 4,688,368, Cl. 53-399.000.
Honegger, Werner, 4,705,227, Cl. 242-59.000.
Honegger, Werner, 4,709,910, Cl. 270-55.000.
Leu, Willey, 4,706,951, Cl. 270-55.000.
Reist, Walter, 4,666,143, Cl. 271-204.000.
Reist, Walter, 4,678,174, Cl. 270-54.000.
Stauber, Hans-Ulrich, 4,703,901, Cl. 242-59.000.

Ferbas, Dennis K.: *See—*
Cairns, James L.; and Ferbas, Dennis K., 4,682,848, Cl. 350-96.210.

Ferber, Alan C.; and Chamran, Morteza M., deceased (by Chamran, Delories M., legal representative), to Perkin-Elmer Corporation, The. Current control system for spectrophotometers. 4,643,571, 2-17-87, Cl. 356-326.000.

Ferber, Alan C.; and Chamran, Morteza M., deceased (by Chamran, Delories M., legal representative), to Perkin-Elmer Corporation, The. Phase-locked timing system for a spectrophotometer. 4,644,485, 2-17-87, Cl. 364-569.000.

Ferber, Alan C.; and Chamran, Morteza M., deceased (by Chamran, Delories M., legal representative), to Perkin-Elmer Corporation, The. Automatic shutter system. 4,647,199, 3-3-87, Cl. 356-300.000.

Ferber, Alan C.; and Chamran, Morteza M., deceased (by Chamran, Delories M., executrix), to Perkin-Elmer Corp. Wide dynamic range linear to log converter with microcomputer control. 4,679,162, 7-7-87, Cl. 364-571.000.

Ferber, Alan C.; and Chamran, Morteza M., deceased (by Chamran, Delories M., legal representative), to Perkin-Elmer Corporation, The. Automatic wavelength calibration apparatus. 4,681,444, 7-21-87, Cl. 356-318.000.

Ferbrache, Raymond B., to Gott Corporation. Lid locking handle for waste container. 4,691,840, 9-8-87, Cl. 220-318.000.

Ferchau, Joerg U.; and Trujillo, Victor D., to Tandem Computers Incorporated. Alignment and connection mechanism. 4,682,833, 7-28-87, Cl. 439-377.000.

Fercher, Adolf F.; and Hu, Hong Z., to Carl-Zeiss-Stiftung. Method and apparatus for making a contact-free measurement of the actual position and of the profile of a coarse surface. 4,652,131, 3-24-87, Cl. 356-349.000.

Ferd Ruesch AG: *See—*
Keller, Heinz, 4,703,690, Cl. 101-142.000.
Keller, Heinz; Brocker, Heinz; and Lehner, Martin, 4,705,608, Cl. 204-28.000.

Ferd. Schafer & Sohne GmbH & Co. KG: *See—*
Gruber, Ernst, 4,662,017, Cl. 12-142.00F.

Ferdelman, Donald C.: *See—*
Knable, Joseph J.; Ferdelman, Donald C.; and Bojanowski, Gerald M., 4,711,463, Cl. 280-668.000.

Ferdinand Bernhard Schmetz, Firma: *See—*
Schmetz, Peter-Nikolaus; and Klocker, Peter, 4,691,825, Cl. 206-380.000.

Ferdinand Lusch GmbH & Co. KG: *See—*
Horenkamp, Franz, 4,672,696, Cl. 5-17.000.
Horenkamp, Franz, 4,690,358, Cl. 248-297.300.

Ferdinandi, Eckhardt S.; Mobilio, Dominick; Sabatucci, Joseph P.; and Humber, Leslie G., to American Home Products Corporation. Substituted 1,3,4,9-tetrahydropyrano(3,4-b)indole-1-acetic acids. 4,686,213, 8-11-87, Cl. 514-161.000.

Ferdinandi, Eckhardt S.: *See—*
  Sestanj, Kazimir; and Ferdinandi, Eckhardt S., 4,672,059, Cl. 514-62.000.
Ferdows, Houshang; Krug, Martin; and Bihl, Paul R., to Suetrak U.S.A., Inc. Roof-mounted air conditioner system having modular evaporator and condensor units. 4,679,616, 7-14-87, Cl. 165-43.000.
Ferek-Petric, Bozidar: *See—*
  Breyer, Branko; Cikes, Ivo; and Ferek-Petric, Bozidar, 4,706,681, Cl. 128-642.000.
Ferencik, James J.: *See—*
  Quante, Jeffrey B., III; Scoggin, Steven C.; Maxwell, Dennis L.; Rosenkoetter, Marvin W.; and Ferencik, James J., 4,709,659, Cl. 109-21.500.
Ferenczi, Attila: *See—*
  Dombay, Zsolt; Grega nee Toth, Erzsebet; Nagy, Jozsef; Pavliscsak, Csaba; Tasi, Laszlo; Toth, Andras; Toth, Oszkar; Vitanyi, Judit; Bihari, Ferenc; Bohus, Peter; Inczedy, Peter; Magyari, Istvan; Kertesz nee Szabo, Marianna; Wohl, Laszlo; and Ferenczi, Attila, 4,670,429, Cl. 514-187.000.
Ferens, Jerzy: *See—*
  Noworolski, Zbigniew; and Ferens, Jerzy, 4,639,849, Cl. 363-56.000.
Ferentchak, Rudolph; Kozischek, James F.; and Schwartz, Jerome E., to Reheis Chemical Company, Inc. Thermosetting resin binder particles and methods for making waferboard. 4,708,967, 11-24-87, Cl. 521-56.000.
Feres, Vaclav. Thin layer evaporator. 4,683,026, 7-28-87, Cl. 159-6.100.
Feres, Vaclav. Thin-film evaporators. 4,707,220, 11-17-87, Cl. 159-6.100.
Feres, Vaclav: *See—*
  Roubicek, Rudolf V.; and Feres, Vaclav, 4,657,677, Cl. 210-219.000.
Fergason, James L., to Manchester R & D Partnership. Colored encapsulated liquid crystal devices using imbibition of colored dyes and scanned multicolor displays. 4,662,720, 5-5-87, Cl. 350-339.00F.
Fergason, James L., to Manchester R & D Partnership. Liquid crystal motion picture projector. 4,693,557, 9-15-87, Cl. 350-331.00R.
Fergason, James L., to Manchester R & D Partnership. Encapsulated liquid crystal material, apparatus and method. 4,707,080, 11-17-87, Cl. 350-334.000.
Fergason, James L.: *See—*
  McLaughlin, Charles W.; Fergason, James L.; and Parker, Robert, 4,699,470, Cl. 350-334.000.
Fergen, James E.: *See—*
  Nourse, Gary E.; Fergen, James E.; and Zarembo, Peter J., 4,667,185, Cl. 340-572.000.
Ferguson, Angus S.: *See—*
  Brocklehurst, Peter; and Ferguson, Angus S., 4,643,840, Cl. 252-160.000.
Ferguson, Arthur R., to Outboard Marine Corporation. Marine propulsion device oil cooling arrangement. 4,641,615, 2-10-87, Cl. 123-196.0AB.
Ferguson, Arthur R., to Outboard Marine Corporation. Friction device for damping oscillation of an outboard motor. 4,689,024, 8-25-87, Cl. 440-52.000.
Ferguson, Arthur R., to Outboard Marine Corporation. Power steering system. 4,689,025, 8-25-87, Cl. 440-61.000.
Ferguson, Arthur R., to Outboard Marine Corporation. Marine propulsion device hydraulic system. 4,698,035, 10-6-87, Cl. 440-61.000.
Ferguson, Arthur R., to Outboard Marine Corporation. Marine propulsion device power steering system. 4,710,141, 12-1-87, Cl. 440-61.000.
Ferguson, Barry W., to Bow Valley Industries Ltd.; Bow Valley Resource Services Ltd.; and Canarctic Ventures Ltd. Method and apparatus for constructing an artificial island. 4,648,749, 3-10-87, Cl. 405-205.000.
Ferguson, Brian D.; and Jackson, Phillip B., to Aqua-Edge Industries Australia Pty. Ltd. Edging assembly. 4,702,034, 10-27-87, Cl. 47-33.000.
Ferguson, Charles L.: *See—*
  Bartfield, William; and Ferguson, Charles L., 4,646,627, Cl. 99-330.000.
Ferguson, Daniel: *See—*
  Webb, Watt W.; and Ferguson, Daniel, 4,664,513, Cl. 356-28.000.
Ferguson, Daniel J.; Schirmer, Henry G.; and Mueller, Walter B., to W. R. Grace & Co., Cryovac Div. Multi-layer packaging film and receptacles made therefrom. 4,640,856, 2-3-87, Cl. 428-36.000.
Ferguson, David E., to Amalgamated Software of North America, Inc. Method of compacting and searching a data index. 4,677,550, 6-30-87, Cl. 364-300.000.
Ferguson, Dennis D.: *See—*
  Fant, Karl M.; and Ferguson, Dennis D., 4,667,190, Cl. 340-747.000.
Ferguson, Donald C.: *See—*
  Smith, Merrill M.; and Ferguson, Donald C., 4,678,528, Cl. 156-220.000.
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  Lincoln, Jay P.; Owens, William M.; and Ferguson, Douglas M., 4,699,271, Cl. 206-63.300.
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Ferguson, Harry D.; Lee, Kar-Kui; Oliver, William; Kwong, Fat-Cho Young, Ronald; Hammell, Jim; Morrow, Keith; and Chaudhary Rashid A., to General Signal Corporation. Fire alarm control an emergency communication system. 4,673,920, 6-16-87, C 340-521.000.
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  Patel, Ranjan C.; Ferguson, Ian J.; and Pennicott, Herbert J. 4,701,402, Cl. 430-332.000.
Ferguson, James H.: *See—*
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Ferguson, James M., to Dynacast International Limited. Method and apparatus for forming an internally screw-threaded article. 4,633,93 1-6-87, Cl. 164-131.000.
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  Arnone, Ronald; and Ferguson, Keith, 4,642,107, Cl. 604-342.00
Ferguson, Keith T., to E. R. Squibb & Sons, Inc. Ostomy bag coupling 4,648,875, 3-10-87, Cl. 604-339.000.
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Ferguson, Larry W.: *See—*
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Ferguson, Michael J., to Ferranti, plc. Power supply circuit. 4,686,615 8-11-87, Cl. 363-17.000.
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Ferguson, Noble B., to Amoco Corporation. Method of producing heavy oils. 4,645,005, 2-24-87, Cl. 166-278.000.
Ferguson, Patrick E.; and Nordquist, Andrew L., to Varian Associates Inc. Triple-pane waveguide window. 4,688,009, 8-18-87, C 333-252.000.
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  Anderson, Andrew G.; Bullen, David A.; and Ferguson, Robert G. 4,677,877, Cl. 74-785.000.
Ferguson, Robert W.; Andors, Derik K.; and Crossman, William W. Jr., to Vermont Castings, Inc. Solid fuel heating appliances 4,646,712, 3-3-87, Cl. 126-79.000.
Ferguson, Robert W.; Andors, Derik K.; and Reed, E. Smith, Jr., t Vermont Castins, Inc. Wood burning stove having glass cleanin system. 4,683,868, 8-4-87, Cl. 126-193.000.
Ferguson, Sean M. Check valve. 4,674,529, 6-23-87, Cl. 137-375.00
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Ferguson, Vivian: *See—*
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Fergusson, Charles W.: *See—*
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  Bertotti, Franco; Ferla, Giuseppe; Musumeci, Salvatore; an Raciti, Salvatore, 4,641,171, Cl. 357-46.000.
Ferlan, Stephen J.: *See—*
  Shallenberger, John M.; and Ferlan, Stephen J., 4,638,543, C 29-426.500.
  Shallenberger, John M.; and Ferlan, Stephen J., 4,638,556, C 29-723.000.
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  Shallenberger, John M.; and Ferlan, Stephen J., 4,641,409, C 29-401.100.

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Castillo, Jean-Michel; Jankowski, Christian; and Ferlay, Serge, 4,676,877, Cl. 204-10.000.

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Wadsworth, Walter, 4,660,377, Cl. 60-39.511.

Fern Group, Inc., The: *See—*
Fougere, Richard J., 4,674,898, Cl. 400-144.200.

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Fernandez, Jesus S. Window guard and latching mechanism therefor. 4,634,157, 1-6-87, Cl. 292-218.000.

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Fernandez, Manuel; and Frierdich, Waldo J., to Basler Electric Company. Transfer apparatus, regulating apparatus and methods. 4,701,690, 10-20-87, Cl. 322-28.000.

Fernandez, Maria I. M.: *See—*
Wilson, Kenneth E.; Monaghan, Richard L.; DeRiso, Cheryl; Zimmerman, Sheldon B.; Hensens, Otto D.; Flor, James E.; Del Val, Sagrario M.; and Fernandez, Maria I. M., 4,681,846, Cl 435-124.000.

Fernandez, Reet T.: *See—*
Hoffman, Dwight K.; and Fernandez, Reet T., 4,707,529, Cl. 525-476.000.

Fernando, Ranjit S.: *See—*
Regas, Jennine; and Fernando, Ranjit S., 4,685,471, Cl. 128-734.000.

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Fernholz, Hans; Krekeler, Hans; Roscher, Gunter; Schmidt, Hans-Joachim; Schmaitz, Heinz; and Wunder, Friedrich, to Hoechst Aktiengesellschaft. Process for the manufacture of unsaturated esters of carboxylic acids. 4,668,819, 5-26-87, Cl. 560-245.000.

Fernholz, James A.: *See—*
Quinliak, Warren W.; and Fernholz, James A., 4,653,574, Cl. 165-54.000.

Ferno-Washington, Inc.: *See—*
Vance, Ronald D., 4,688,279, Cl. 5-82.00R.

Fernsler, Ronald E.: *See—*
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Fernstrom, Bengt A. R.: *See—*
Agergard, Gosta Y.; and Fernstrom, Bengt A. R., 4,674,143, Cl 15-79.00A.

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Goldhammer, Albert, 4,637,560, Cl. 241-100.000.

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Feron, David S.: *See—*
LaRussa, Joseph; and Feron, David S., 4,671,771, Cl. 434-22.000.

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Jordan, Mark T.; and Ferragamo, Mark, 4,678,061, Cl. 182-206.000.

Ferrage, Francois; and Adler, Michel, to Establissements DUBIX (S.A.). Machine for inserting fabrics into a drying and ironing machine. 4,671,001, 6-9-87, Cl. 38-143.000.

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Armand, Marie-Francoise; Daval, Jacques; Ferrand, Bernard; and Moriceau, Hubert, 4,698,281, Cl. 428-692.000.

Ferrand, Gerard; Barbanton, Jacques; and Depin, Jean-Claude, to Lipha, Lyonnaise Industrielle Pharmaceutique. 5,6-dihydro-4H-cyclopenta(b)thiophene-6-carboxylic acids, preparation processes and medicines containing them. 4,649,153, 3-10-87, Cl. 514-443.000.

Ferrando, Ugo; Gardi, Giovanni; and Pagliano, Giustino, to N.U.S. S.r.l. Catheter for medical-surgical application. 4,645,493, 2-24-87, Cl. 604-174.000.

Ferrano, Gert, to Carl-Zeiss-Stiftung. Method and apparatus for the contact-less measuring of objects. 4,660,970, 4-28-87, Cl. 356-1.000.

Ferrant, Richard, to Eurotechnique. Integrated circuit memory. 4,707,810, 11-17-87, Cl. 365-200.000.

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Ferrante, Felix. Magnetic fuel tank safety switch. 4,663,540, 5-5-87, Cl. 307-118.000.

Ferrante, Ronald A., to NCR Corporation. Method and apparatus for making and utilizing a holographic bifocal lens element. 4,687,282, 8-18-87, Cl. 350-3.700.

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Baker, Mark G. B., 4,641,038, Cl. 250-578.000.
Boot, Alan, 4,647,142, Cl. 350-3.700.
Brignall, Nicolas L., 4,638,221, Cl. 318-48.000.
Brignall, Nicolas L., 4,643,539, Cl. 350-500.000.
Bruchez, Jeffrey A., 4,700,456, Cl. 439-54.000.
Cormack, Robert J., 4,694,229, Cl. 318-561.000.
Crowe, Alan S., 4,667,296, Cl. 364-553.000.
Ferguson, Michael J., 4,686,615, Cl. 363-17.000.
Grant, George S., 4,702,602, Cl. 356-350.000.
Harris, Ian R.; and Shepherd, Ewan W., 4,644,302, Cl. 333-125.000.
Mallinson, Andrew M.; and Hoodless, Adrian H. W., 4,682,086, Cl. 315-371.000.
McFarlane, Robert J., 4,651,951, Cl. 244-1.00R.
McKeand, Alexander W., 4,642,542, Cl. 318-636.000.
McPherson, Hugh; and Stoker, Jeffrey, 4,714,873, Cl. 324-57.00N.
Moore, Peter G.; and Davidson, John D., 4,636,700, Cl. 318-611.000.
Morley, Robert A.; and Buick, James M., 4,680,012, Cl. 434-22.000.
Pitches, Brian E.; and Wright, David A., 4,691,446, Cl. 33-516.000.
Pithie, James, 4,677,631, Cl. 372-38.000.
Ross, Iain E., 4,703,489, Cl. 372-64.000.
St. Clair, John S.; and Brignall, Nicolas L., 4,680,522, Cl. 318-664.000.
Sillitto: Hillary G., 4,714,321, Cl. 350-174.000.
Waterworth, John R., 4,638,454, Cl. 364-900.000.
Waterworth, John R., 4,701,745, Cl. 340-347.0DD

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Fitzgibbons, Michael R., 4,709,726, Cl. 137-614.040.

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Crowe, Wayne D., 4,639,714, Cl. 340-310.00R.
Crowe, Wayne D., 4,641,126, Cl. 340-310.00A.
Fitzgibbons, Michael R., 4,648,748, Cl. 405-195.000.

Ferrar, Andrew N.; and Jones, Arthur N., to Transparent Paper PLC. Packaging of fresh meat. 4,642,239, 2-10-87, Cl. 426-396.000.

Ferrara, Francis N.: *See—*
Thaler, Warren A.; Brois, Stanley J.; and Ferrara, Francis N., 4,652,600, Cl. 524-547.000.

Ferraresi, Andrea; and Griselli, Pierluigi, to Enichem Tecnoresine S.p.A. Method for the preparation of graft copolymers by emulsion copolymerization. 4,703,090, 10-27-87, Cl. 525-246.000.

Ferrari Aggradi, Gian P.; and Ferrante, Cesare M., to Nuovo Pignone S.p.A. System of submarine linking between the legs of a platform and the relating foundation piles. 4,695,202, 9-22-87, Cl. 405-227.000.

Ferrari, Alphonse; Roche, Michel; and Dard, Jean-Claude, to Benson S.A. Drawing machine having automatically replaced writing members and apparatus therefor. 4,683,476, 7-28-87, Cl. 346-29.000.

Ferrari, Francis E., to Stewart-Warner Corporation. Pattern tracer with kerf dependent control for improved cornering. 4,658,127, 4-14-87, Cl. 250-202.000.

Ferrari, Giorgio; and Vecchietti, Vittorio, to SIMES, Societa Italiana Medicinali e Sinetetici S.p.A. Laevorotatory antipode of moprolol as an antihypertensive. 4,683,245, 7-28-87, Cl. 514-652.000.

Ferrari, Harry M.; and Wilson, John F., to Westinghouse Electric Corp. Bottom grid mounted debris trap for a fuel assembly. 4,652,425, 3-24-87, Cl. 376-352.000.

Ferrari, Harry M., to Westinghouse Electric Corp. Hydride blister-resistant zirconium-based nuclear fuel rod cladding. 4,659,545, 4-21-87, Cl. 376-457.000.

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Ferrari, Harry M., to Westinghouse Electric Corp. Nuclear fuel assembly grid with predetermined grain orientation. 4,678,632, 7-7-87, Cl. 376-462.000.

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Ferrari, Harry M., to Westinghouse Electric Corp. Nuclear fuel assembly with improved spectral shift-producing rods. 4,687,621, 8-18-87, Cl. 376-209.000.

Ferrari, Harry M., to Westinghouse Electric Corp. Zirconium metal matrix-silicon carbide composite nuclear reactor components. 4,707,330, 11-17-87, Cl. 376-457.000.

Ferrari, Harry M.: *See—*
  Wilson, John F.; Gjertsen, Robert K.; and Ferrari, Harry M., 4,684,504, Cl. 376-447.000.
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Ferrari, Lorenzo, to Kinglor-Ltd. Process for the automatic forming of continuous metal tube filled with powdered materials, its direct introduction in to liquid metal, and related equipment. 4,711,663, 12-8-87, Cl. 75-53.000.

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Ferrari, Loris: *See—*
  Gaiti, Giorgio; and Ferrari, Loris, 4,679,270, Cl. 15-29.000.

Ferrari, Luigi M., to Del Laboratories, Inc. Fingernail treatment arrangement. 4,644,966, 2-24-87, Cl. 132-73.000.

Ferrari, Paolo: *See—*
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Ferrari, Pierferdinando: *See—*
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Ferrari, Ricky J.: *See—*
  Lenertz, John I.; Tessenske, Dennis J.; and Ferrari, Ricky J., 4,636,130, Cl. 414-500.000.

Ferrario, Bruno; Martelli, Daniele; and Boffito, Claudio, to S.A.E.S. Getters S.p.A. Low methane getter device. 4,665,343, 5-12-87, Cl. 313-553.000.

Ferrario, Luciano, to Alfa Romeo Auto S.p.A. Device for manually controlling a motor vehicle change-speed gear unit. 4,653,341, 3-31-87, Cl. 74-473.00R.

Ferrario, Luciano: *See—*
  Fanti, Cristoforo; Travaglio, Gianclaudio; Ferrario, Luciano; and Moscatelli, Saverio, 4,714,127, Cl. 180-233.000.

Ferraro, Angelo, to General Electric Company. Gate capacitance latch for DC to AC converters. 4,649,321, 3-10-87, Cl. 315-224.000.

Ferraro, Domenico: *See—*
  Carbonaro, Antonio; and Ferraro, Domenico, 4,696,984, Cl. 526-98.000.

Ferraro, Frank A., to Warner-Lambert Company. Method of securing a shaving aid to a razor cartridge. 4,683,096, 7-28-87, Cl. 264-249.000.

Ferraro, Frank A., to Warner Lambert Company. Pivotable razor cartridge with circular cam. 4,693,003, 9-15-87, Cl. 30-50.000.

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Ferraro, Frank A.: *See—*
  Motta, Vincent C.; and Ferraro, Frank A., 4,692,986, Cl. 29-451.000.

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Ferrato, Joseph P., to Crystaloid Electronics Company. Liquid crystal materials. 4,659,499, 4-21-87, Cl. 252-299.100.

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paper sheets. 4,693,626, 9-15-87, Cl. 402-73.000.

Ferreira, Lawrence, to Olin Hunt Specialty Products, Inc. De
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Ferreira, Leonidas, to C^3 E M Company Ltd. Miniature tele
transmitter. 4,701,797, 10-20-87, Cl. 358-186.000.

Ferreira, Marc; McCormick, John; Bernard, Raymond; Butryn, J
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ing and indicating changes in resistance of a living body. 4,70
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Ferrell, Charles W.; and Howell, Thomas H., to Honeywell Bu
Division by a constant by iterative table lookup. 4,688,186, 8-
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Ferrell, Charles W.: *See—*
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Ferrell, Robert A.: *See—*
  Sullivan, Brian P.; Dennis, Larry T.; and Ferrell, Robe
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Ferrell, Thomas M., to Exxon Chemical Patents Inc. Method fo
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Ferrendelli, James A.: *See—*
  Covey, Douglas F.; Levine, Jeffrey A.; and Ferrendelli, Jam
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Ferrentino, Gerald L.: *See—*
  Scherbarth, David W.; Scuro, Samuel J.; and Ferrentino, G
  L., 4,658,729, Cl. 102-520.000.

Ferrer, Enrique; and Schlosser, Charles M., to Motorola, Inc. M
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340-825.440.

Ferrer, Enrique: *See—*
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Automation S.p.A. Device for effecting automatic exchange o
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particularly for controlling apparatus for welding parts of
vehicles bodies. 4,700,042, 10-13-87, Cl. 219-110.000.

Ferrero, Pietro, to Ferrero S.p.A. Dragee and method for its ma
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Ferres, Harry; Smith, Richard A. G.; and Garman, Andrew
Beecham Group p.l.c. Novel fibrinolytic enzyme comp
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  Podrini, Maurizio; Ferretti, Alessandro; and Di Schino, Gia
  4,671,433, Cl. 222-606.000.

Ferri, Bernard L. Shot pattern controlling device. 4,635,555, 1
Cl. 102-453.000.

Ferri, Vincent J. Product coupon container attachable to shoppin
4,702,402, 10-27-87, Cl. 224-277.000.

Ferrier, Christiane, to Aerospatiale Societe Nationale Indus
Device for thermal protection from ablation and vibratio
manufacturing method. 4,655,866, 4-7-87, Cl. 156-192.000.

Ferrier, Herman, to Fuji Photo Film Co., Ltd. Multiply pulsed
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de la Siderurgie Francaise; and Usinor. Process and equipme
sensing surface defects on a moving strip. 4,665,317, 5-12-
250-562.000.

Ferriere Nord SpA: *See—*
  Compagnucci, Rossano; and Masera, Ercole, 4,679,74
  242-77.200.
  Pittini, Andrea; and Gensini, Gianni, 4,644,559, Cl. 373-104

Ferrigno, Giancarlo: *See—*
  Pedotti, Antonio; and Ferrigno, Giancarlo, 4,706,29
  382-42.000.

Ferring Biotechnik GmbH: *See—*
  Paulsen, Otto, 4,657,027, Cl. 128-762.000.

Ferriola, John J.: *See—*
  Lawrence, Craig J.; and Ferriola, John J., 4,679,77
  266-246.000.

Ferris, David A.; and Caswell, Richard J., to Fairchild Semicon
Corporation. Multiple phase-splitter TTL output circuit w
proved drive characteristics. 4,661,727, 4-28-87, Cl. 307-456.0

Ferris, David A.; and DeSimone, Daniel J., to Quadic System
Low power high current sinking TTL circuit. 4,697,103, 9-29-
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  Henderson, James A.; Travlos, Constantine M.; Ferris, Da
  Duddy, Gerald J.; and Mercier, Roland F., 4,683,6
  29-564.600.

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Corporation. Tension/compression rod arrangement for da
helicopter rotor blade oscillations. 4,645,423, 2-24-8
416-140.000.

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Ferris, Donald L.; Gendreau, Johnny P.; and Korzun, Alexander, to United Technologies Corporation. Tangential link swashplate centering member. 4,688,993, 8-25-87, Cl. 416-114.000.

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Byrnes, Francis E.; Ferris, Donald L.; and Olsen, Eric G., 4,676,669, Cl. 384-221.000.

Byrnes, Francis E.; Ferris, Donald L.; Hibyan, Edward S.; Noehren, William L.; and Ogle, Peter C., 4,714,450, Cl. 464-90.000

Ferris, Ernest A., to Borg-Warner Corporation. Hydraulically-actuated starting clutch assembly with balanced piston actuation. 4,709,795, 12-1-87, Cl. 192-106.00F.

Ferris Industries, Inc.: *See—*

Boice, Richard K., 4,663,923, Cl. 56-15.800.

Ferris, James E. Air conditioner refrigerant check gauge insert convertible to a tire check gauge. 4,693,112, 9-15-87, Cl. 73-146.800.

Ferris, Robert, to Cetus Corporation. Method of recovering microbially produced recombinant ricin toxin a chain. 4,689,401, 8-25-87, Cl. 530-396.000.

Ferro, Alberto: *See—*

Steffen, Hans; and Ferro, Alberto, 4,649,155, Cl. 514-458.000.

Ferro, Antonio. Method and apparatus for extraction of amalgamatable metals from a slurry. 4,668,368, 5-26-87, Cl. 204-212.000.

Ferro, Antonio, to Crinos International. Detergent composition 4,707,293, 11-17-87, Cl. 252-174.170.

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Kammann, Karl P., Jr.; and Troxel, Kathleen A., 4,683,081, Cl. 252-392.000.

Racs, Robert R., 4,653,955, Cl. 404-14.000.

Williams, Charles F.; and Sahni, Atam P., 4,680,139, Cl 252-511.000

Wilson, James M.; Coller, Dana L.; and Venkataramani, Subramaniam, 4,670,243, Cl. 423-598.000.

Ferro, Daniel. Spear gun having air valve formed by inner and outer barrel. 4,660,315, 4-28-87, Cl. 43-6.000.

Ferro, Francesco: *See—*

Nerli, Giovanni; Nesti, Solitario; Grego, Francesco; Bottos, Roberto; and Ferro, Francesco, 4,698,960, Cl. 57-401.000.

Nerli, Giovanni; Grego, Francesco; Bottos, Roberto; and Ferro, Francesco, 4,704,859, Cl. 57-401.000.

Ferro Manufacturing Corporation: *See—*

Hammond, Albert J., 4,685,248, Cl. 49-352.000.

McFalls, Bob L.; Myers, Timothy S.; and Fudala, Chester, 4,685,735, Cl. 297-362.000.

Staran, Michael E.; Czulinski, Ronald B.; and Hammond, Albert J., 4,642,941, Cl. 49-352.000.

Ferro, Michael P.; and Wachter, Michael P., to Ortho Pharmaceutical Corporation. Styrene derivatives, their use as antiallergic agents and intemediate epoxides for their synthesis. 4,665,092, 5-12-87, Cl 514-459.000.

Ferrofluidics Corporation: *See—*

Borduz, Lucian; and Raj, Kuldip, 4,687,596, Cl. 252-510.000

Gowda, Hanumaiah L.; Raj, Kuldip; and Borduz, Lucian, 4,673,997, Cl. 360-107.000.

Gowda, Hanumaiah L.; Cheever, Charles J.; and Bloom, Frank, 4,694,213, Cl. 310-90.000.

Helgeland, Walter, 4,663,128, Cl. 422-249.000.

Raj, Kuldip; and Casciari, Raoul, 4,692,826, Cl. 360-97.000.

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Aspirot, Jacques; Biache, Gerard; Delattre, Robert; and Ferron, Pierre, 4,668,511, Cl. 424-93.000.

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Pomponio, Thomas F., 4,656,451, Cl. 336-96.000.

Ferronniere, Michel, to Zodiac. Pneumatic boats. 4,640,217, 2-3-87, Cl. 114-345.000.

Ferrotec, Inc.: *See—*

Nemnich, Charles L.; and Hoyt, Charles D., 4,706,498, Cl. 73-516.00R.

Ferruccio, Antonio: *See—*

Calcabrini, Vinicio; and Ferruccio, Antonio, 4,635,578, Cl. 114-39.000.

Ferruzzi, Sergio: *See—*

Senni, Paolo; Zuliani, Leandro; and Ferruzzi, Sergio, 4,647,661, Cl. 540-537.000.

Ferry Cap & Set Screw Company, The: *See—*

MacGuire, Andrew E., 4,702,272, Cl. 137-480.000.

Ferry, Jacques H., to Equipements Automobiles Marchal. Safety belt buckle device with automatic unlocking. 4,644,616, 2-24-87, Cl. 24-602.000.

Fershko, Jane S.; and Lackey, Robert W., to Mead Corporation, The. Gravity feed display device. 4,690,287, 9-1-87, Cl. 211-49.100.

Fersht, Rena S.: *See—*

Fersht, Samuel N.; and Fersht, Rena S., 4,710,027, Cl. 356-350.000.

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Ferson, Isadore S.: *See—*

Briggs, Willard S.; Gant, Alan D.; Gupta, Parveen K.; and Ferson, Isadore S., 4,649,471, Cl. 364-200.000.

Fersten Headwear, Inc.: *See—*

Ferstenfeld, Bernard, 4,642,817, Cl. 2-183.000.

Ferstenfeld, Bernard, to Fersten Headwear, Inc. Adjustable sweatband for hat. 4,642,817, 2-17-87, Cl. 2-183.000.

Fert, Vincent: *See—*

Bourgois, Alain; Delezay, Marylene; and Fert, Vincent, 4,670,543, Cl. 530-383.000.

Fertig, Gunter, to Mannesmann Rexroth GmbH. Directional control valve having a built-in flow control valve. 4,705,069, 11-10-87, Cl. 137-596.000.

Fertig, Werner, to VDO Adolf Schindling AG. Multiplexable liquid crystal cell. 4,676,603, 6-30-87, Cl. 350-336.000.

Fertil, Alain: *See—*

Ambos, Rene; Quagliaro, Gilles; and Fertil, Alain, 4,716,362, Cl. 324-77.00B.

Fertimont S.p.A.: *See—*

Majer, Rocco, 4,686,115, Cl. 427-212.000.

Fertl, Walter H.; and Frost, Elton, to Dresser Industries, Inc. Method of determining shear wave travel time in subsurface formations. 4,636,994, 1-13-87, Cl. 367-75.000.

Fertl, Walter H., to Western Atlas International, Inc. Determination of water or residual oil saturation in earth formations independent of lithology. 4,700,140, 10-13-87, Cl. 324-338.000.

Ferton, Daniel: *See—*

Bouvaist, Jean; and Ferton, Daniel, 4,659,393, Cl. 148-2.000.

Fery, Guy A., to Floating Sky, Inc. Mailer construction. 4,640,411, 2-3-87, Cl. 206-216.000.

Ferziger, Daniel; and Lippman, Jerry, to Ferziger, Daniel. Foam coated fabrics. 4,677,016, 6-30-87, Cl. 428-212.000.

Fesler, Kenneth A.: *See—*

Youngquist, Robert C.; Brooks, Janet L.; Fesler, Kenneth A.; Cutler, Cassius C.; and Shaw, Herbert J., 4,697,926, Cl. 356-345.000.

Fesman, Gerald, to Stauffer Chemical Company. Laminated heat-sealed polyether urethane foam. 4,652,485, 3-24-87, Cl. 428-290.000.

Fesman, Gerald, to Stauffer Chemical Company. Process for producing laminated polyether urethane foam. 4,654,105, 3-31-87, Cl. 156-308.200.

Fessenden, Peter J.: *See—*

Beauregard, William W.; and Fessenden, Peter J., 4,689,878, Cl. 29-611.000.

Fessler, Dieter: *See—*

Droll, Hans; and Fessler, Dieter, 4,648,927, Cl. 156-159.000.

Fessler, Ewald, to Natec, Reich, Summer GmbH & Co., K.G. Slab-cutting machine. 4,644,729, 2-24-87, Cl. 53-157.000.

Fest, Christa; Brandes, Wilhelm; Hanssler, Gerd; and Reinecke, Paul, to Bayer Aktiengesellschaft. Benzaldoxime carbamate derivatives, their compositions and method of use. 4,716,176, 12-29-87, Cl. 514-477.000.

Fest, Christa: *See—*

Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,645,528, Cl. 71-90.000.

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Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; and Roy, Wolfgang, 4,658,027, Cl. 544-321.000.

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Fester, Earl L. Infrared space heater. 4,680,448, 7-14-87, Cl. 219-365.000.

Fetcenko, Michael A.: *See—*

Reichman, Benjamin; Venkatesan, Srini; Fetcenko, Michael A.; Jeffries, Kenneth; Stahl, Sharon; and Bennett, Clifford, 4,716,088, Cl. 429-101.000.

Feterl, Leon G., to Core Industries Inc. Material mixing apparatus. 4,712,922, 12-15-87, Cl. 366-288.000.

Feth, John R., to Litton Systems, Inc. Polarizing optical fiber with absorbing jacket. 4,711,525, 12-8-87, Cl. 350-96.330.

Feth, John R.: *See—*

Chang, Chin-Lung; and Feth, John R., 4,695,123, Cl. 350-96.150.

Feth, Max: *See—*

Lenk, Erich; and Feth, Max, 4,645,444, Cl. 425-192.00S.

Lenk, Erich; and Feth, Max, 4,696,633, Cl. 425-192.00S.

Lenk, Erich; and Feth, Max, 4,698,008, Cl. 425-192.00S.

Fether, Kenneth B.: *See—*

Cowler, David J. W.; and Lewis, Peter R., 4,711,420, Cl. 248-243.000.

Fetheroff, Charles W.: *See—*

Farleman, Ronald K.; Fetheroff, Charles W.; and Matay, Istvan M., 4,634,273, Cl. 356-73.000.

Fetko, Paul; and Zaglin, Lawrence C. Folding double mirror device. 4,639,102, 1-27-87, Cl. 350-626.000.

Fetouh, Mohamed A., to General Motors Corporation. Split bearing assemblies. 4,684,267, 8-4-87, Cl. 384-294.000.

Fetrow, James D.: *See—*
  Boomgaard, Dirk J.; Fetrow, James D.; Geis, Charles G.; Mills, Fred J.; and Neuner, James A., 4,668,465, Cl. 376-216.000.

Fetsch, Rudolf, to Unima Maschinenbau GmbH. Pipe saddle. 4,674,720, 6-23-87, Cl. 248-74.100.

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Fetsko, Daniel G.: *See—*
  Graham, Lawrence D.; Skelley, Richard A.; Fetsko Daniel G.; and Ardo, Ronald, 4,673,021, Cl. 164-122.000.

Fetta, Adriano: *See—*
  Scardovi, Alessandro; and Fetta, Adriano, 4,689,641, Cl. 346-140.00R.

Fette, Bruce A., to Motorola, Inc. Utilizing word-to-digital conversion. 4,707,858, 11-17-87, Cl. 381-43.000.

Fetter, John L.; Evans, Jerald R.; and Ergene, Serdar, to Sun Microsystems, Inc. High speed Z-buffer with dynamic random access memory. 4,679,041, 7-7-87, Cl. 340-74[illegible]00.

Fetter, Jozsef: *See—*
  Lempert, Karoly; Hornyak, Gyula; Bartha, Ferenc; Doleschall, Gabor; Fetter, Jozsef; Nyitrai, Jozsef; Simig, Gyula; Zauer, Karoly; Huszthy, Peter; Feller, Antal; Petocz, Lujza; Szirt, Eniko; Grasser, Katalin; Berenyi, Edit Orr, Zsuzsanna; and Pjeczka, Etelka, 4,665,083, Cl. 514-370.000.

Fetterly, Donald R.: *See—*
  Schlunt, Richard S.; and Fetterly, Donald R., 4,669,054, Cl. 364-822.000.

Fetters, G. David. Portable collapsible baby crib. 4,692,953, 9-15-87, Cl. 5-99.00R.

Fetters, Thomas T.: *See—*
  Kehe, Alfred W.; and Fetters, Thomas T., 4,675,139, Cl. 264-26.000.

Fettes, Ian; and Jervis, Gary F., to Hudd Enterprises. Prunner with collapsible drive shaft and housing. 4,654,971, 4-7-87, Cl. 30-383.000.

Fettig, Robert P.; Bushman, Matthew J.; and Miller, Glenn M., to Kelley Company Inc. Dock seal. 4,679,364, 7-14-87, Cl. 52-173.0DS.

Fetty, Allan M., to Motorola, Inc. Continuous ionizer for semiconductor manufacturing processes. 4,673,443, 6-16-87, Cl. 134-25.400.

Fetty, Walter; and Killian, Joseph R., to Killian Latex, Inc. Composition and method for the preservation of mastitis. 4,716,180, 12-29-87, Cl. 514-782.000.

Fetzer, Gerhard: *See—*
  Griesinger, Rolf; and Fetzer, Gerhard, 4,637,172, Cl. 51-289.00R.

Fetzer, Wolfgang, to Svenska Rotor Maskiner Aktiebolag. Apparatus for catalytic cleaning of exhaust gases from a furnace system. 4,678,643, 7-7-87, Cl. 422-175.000.

Feucht, Fritz; Mettenleiter, Karl; and Storandt, Ralf, to Geze GmbH. Holding installation for double doors. 4,653,229, 3-31-87, Cl. 49-367.000.

Feuchter, Wolfgang; Goetz, Dieter; and Schmid, Friedbert, to Stahlecker, Fritz; and Stahlecker, Hans. Bearing and drive for a horizontally arranged open-end spinning rotor. 4,703,616, 11-3-87, Cl. 57-105.000.

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Feuchter, Wolfgang: *See—*
  Stahlecker, Fritz; Feuchter, Wolfgang; Gotz, Dieter; Schmid, Friedbert; and Zott, Werner, 4,667,464, Cl. 57-406.000.
  Stahlecker, Fritz; and Feuchter, Wolfgang, 4,672,803, Cl. 57-401.000.

Feuchthofen, Alfons: *See—*
  Klein, Wolf-Dieter; Feuchthofen, Alfons; Strecker, Claus; and Bonisch, Ulrich, 4,666,589, Cl. 208-413.000.

Feuerbaum, Hans-Peter, to Siemens Aktiengesellschaft. Particle-accelerating electrode. 4,651,003, 3-17-87, Cl. 250-396.00R.

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Feuerbaum, Hans-Peter; and Fazekas, Peter, to Siemens Aktiengesellschaft. Method for automatically setting the voltage resolution in particle beam measuring devices and apparatus for implementation thereof. 4,686,466, 8-11-87, Cl. 324-158.00R.

Feuerbaum, Hans-Peter; Frosien, Juergen; and Spehr, Rainer, to Siemens Aktiengesellschaft. Scanning particle microscope. 4,713,543, 12-15-87, Cl. 250-310.000.

Feuerer, Ludwig: *See—*
  Winkler, Otmar; Peter, Heinz; Krug, Manfred; Kessler, Siegbert; and Feuerer, Ludwig, 4,666,386, Cl. 418-267.000.

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Feuerman Research & Development Corporation: *See—*
  Feuerman, Arnold I., 4,667,860, Cl. 223-99.000.

Feuersanger, Alfred E.: *See—*
  Buhrer, Carl F.; and Feuersanger, Alfred E., 4,691,141, Cl. 313-565.000.

Feuerstacke, Ewald: *See—*
  Reichelt, Wolfgang; Voss-Spilker, Peter; Feuerstacke, Ewald; and Schwarz, Klaus, 4,703,789, Cl. 164-154.000.

Feuerstein, Albert: *See—*
  Aichert, Hans; Bauer, Volker; Feuerstein, Albert; and Ranke, Horst, 4,648,347, Cl. 118-720.000.

Feugier, Alain: *See—*
  Chrysostome, Gerard; Feugier, Alain; and Kita, Jean C., 4,674,564, Cl. 165-104.160.

Feuling, James J. Friction reduction for moving elements in contact with a fluid medium. 4,695,229, 9-22-87, Cl. 416-241.00A.

Feunten, Pierre: *See—*
  Siffert, Marcel; Briant, Gervais; Feunten, Pierre; Goacolou, Honore ; Petitgrand, Jean-Claude; and Peyret, Francois, 4,712,423, Cl. 73-146.000.

Feuring, Kurt, to Buderus Aktiengesellschaft. Process for producing castings. 4,694,879, 9-22-87, Cl. 164-7.200.

Feuvrier, Michel: *See—*
  Cariteau, Bernard; Legros, Jean-Pierre; Charrieras, Andre ; and Feuvrier, Michel, 4,706,423, Cl. 52-169.700.

Feuz, Fritz, to Von Roll Habegger AG. Device for clamping and supporting a transport apparatus on a conveying cable. 4,633,783, 1-6-87, Cl. 104-211.000.

FEV Forschungsgesellschaft fur Energietechnik und Verbrennungsmotoren mbH: *See—*
  Gurich, Gunter L., 4,712,036, Cl. 310-333.000.
  Pischinger, Franz; and Lepperhoff, Gerhard, 4,634,459, Cl. 55-418.000.
  Pischinger, Franz, 4,696,270, Cl. 123-274.000.
  Pischinger, Franz; and Kreuter, Peter, 4,700,684, Cl. 123-568.000.

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  Lepperhoff, Gerhard, 4,709,549, Cl. 60-295.000.
  Pischinger, Franz; Lepperhoff, Gerhard; and Huthwohl, Georg, 4,709,547, Cl. 60-274.000.

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Fevrier, Pierre: *See—*
  Robert, Serge; and Fevrier, Pierre, 4,665,480, Cl. 364-200.000.

Few, Ian S.: *See—*
  Tremblay, Yves; Few, Ian S.; Maciejko, Romain; and Ralston, John D., 4,653,845, Cl. 350-96.160.

Fewox, Cary M., to C&M Custom and Portable Kennels, Inc. Enclosure and housing facility for an animal. 4,696,259, 9-29-87, C 119-19.000.

Fey, Edmond O.; Haselbauer, Peter; Jung, Dae Y.; Kaschak, Ronald A.; Kilthau, Hans-Dieter; Magnuson, Roy H.; and Wagner, Robert J., to International Business Machines Corporation. Electroless plating with bi-level control of dissolved oxygen. 4,684,545, 8-4-87, C 427-98.000.

Fey, Hans-Jurgen, to Carl-Zeiss-Stiftung. Imaging arrangement for scanning using stationary optics. 4,634,857, 1-6-87, Cl. 250-227.000.

Fey, Maurice G.; Wolf, Charles B.; and Thunberg, Stefan L. G., to Westinghouse Electric Corp. Arc-heated plasma lance. 4,668,85 5-26-87, Cl. 219-121.0PN.

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Feygenson, Anatoly, to Semiconductor Division Thomson-CSF Components Corporation. Method of fabricating regions of a bipolar microwave integratable transistor. 4,651,410, 3-24-87, Cl. 29-576.00

Feynman, Carl R.: *See—*
  Hillis, W. Daniel; Knight, Thomas F., Jr.; Bawden, Alan; Kahle, Brewster L.; Chapman, David; Christman, David P.; Lasser, Cliff A.; and Feynman, Carl R., 4,709,327, Cl. 364-200.000.

Fezer, Kurt: *See—*
  Eberdt, Jurgen; Fezer, Kurt; and Peters, Hans, 4,662,128, C 52-71.000.

Fezio, Louis J., to K-2 Corporation. Fiber reinforced braided ski core and method and apparatus for making same. 4,690,850, 9-1-87, C 428-105.000.

FFA Flug-und Fahrzeugwerke AG: *See—*
  Gruninger, Edgar, 4,648,911, Cl. 148-6.270.

F'Geppert, Erwin, to United States of America, Army. Tapered roller bearing. 4,655,619, 4-7-87, Cl. 384-567.000.

F'Geppert, Erwin. Prevention of particulate accumulations on observation windows in military vehicles. 4,678,224, 7-7-87, Cl. 296-91.000

F'Geppert, Erwin, to United States of America, Army. Concave-convex gear pair having staggered teeth. 4,679,459, 7-14-87, C 74-460.000.

FGL Projects Limited: *See—*
  Gannon, Raymond, 4,712,249, Cl. 383-43.000.

FHS Stahlverformung GmbH: *See—*
  Strohmeyer, Erich; and Marschhausen, Karl-Heinz, 4,646,585, C 74-476.000.

Fiala, Heinrich: *See—*
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- ber Materials, Inc.: *See—*
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- re Treatments (Holding) Limited: *See—*
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- Fidelman, David: *See*—
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- Fiedler, Volker: *See*—
  - Mardin, Mithat; Busse, Wolf-Dieter; Hoffmeister, Friedrich; Seuter, Friedel; Perzborn, Elisabeth; Schlossmann, Klaus; Mayer, Dieter; and Fiedler, Volker, 4,657,924, Cl. 514-404.000.
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  - Hawkshaw, John K., 4,671,472, Cl. 244-136.000.
- Field, Bruce F.: *See*—
  - Basham, Michael T.; Berdahl, Robert M.; and Field, Bruce F 4,709,771, Cl. 180-6.500.
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- Field, Bruce F.: *See*—
  - Kasper, Joseph G.; Field, Bruce F.; Westrum, Keith R.; a Grimes, Charles E., 4,675,935, Cl. 15-319.000.
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  - Satterthwaite, J. Glenn; and Field, George B., Jr., 4,661,714, C 290-4.00R.
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  - Field, Peter W., 4,636,412, Cl. 428-35.000.
- Field, Jasper H.: *See*—
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  - Eshleman, Edgar S.; Field, Martin J.; and Penwright, James L. 4,693,223, Cl. 123-468.000.
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  - Nivi, Hossein; and Field, Nathaniel L., III, 4,698,528, Cl. 2 192.00B.
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  - Phillips, James S.; and Field, Robert E., 4,669,957, Cl. 416-97.00
- Field, Terrence G.: *See*—
  - Hokanson, John M.; Bentz, Kenneth S.; Field, Terrence G.; an Ziegler, David A., 4,700,044, Cl. 219-121.0LC.
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  - Basinger, David M.; Hatley, Gary L.; Kiser, Billy J.; and Moo James N., 4,678,173, Cl. 270-45.000.
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  - Czelusniak, Paul A., Jr., 4,637,329, Cl. 112-80.450.
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- Fielding, Donna J.: *See*—
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- Fielding, Robert M.: *See*—
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Fields, Tom R. Portable step and carrying device for stud walls. 4,696,372, 9-29-87, Cl. 182-92.000.

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Fieschko, John C.: *See—*
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Fieseler, Heinrich; and Thoma, Klemens, to Messer Griesheim GmbH. Device for producing a cold treatment gas. 4,698,976, 10-13-87, Cl. 62-48.000.

Fieseler, Heinrich: *See—*
Theissen, Friedel; and Fieseler, Heinrich, 4,705,189, Cl. 220-465.000.

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Calvet, Jean; Cavan, Jean-Claude; Thevenin, Jean-Claude; and Fievet, Alain, 4,668,445, Cl. 264-1.500.

Fife, Merrill E.: *See—*
Dahlstrom, David K.; Fife, Merrill E.; and Judy, Charles R., 4,709,361, Cl. 367-165.000.

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Fifth Dimension Inc.: *See—*
Bitko, Sheldon S., 4,683,355, Cl. 200-61.470.

Figala, Volker: *See—*
Rainer, Georg; Figala, Volker; and Kohl, Bernhard, 4,686,230, Cl. 514-338.000.

Figaro Engineering Inc.: *See—*
Sasaki, Kazuko, 4,658,632, Cl. 73-23.000.
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Muller, Jean M., 4,646,379, Cl. 14-23.000.
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Artz, Gerd; Figge, Dieter; and Philipp, Clemens, 4,679,612, Cl. 164-431.000.

Figgie, Harry E., III, to Figgie International Inc. Surgical implant process for a prosthetic knee. 4,650,490, 3-17-87, Cl. 623-20.000.

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Ansite, William K., 4,664,108, Cl. 128-202.260.
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Kemp, David M.; and Jones, Hartl R., 4,669,496, Cl. 137-209.000.
Kralik, Douglas R., 4,660,831, Cl. 273-65.00E.
Latina, Roland N., 4,651,345, Cl. 2-19.000.
Mitchell, Hal D.; and Walker, Donald R., 4,679,253, Cl. 2-2.000.
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Puskarz, Stanley J.; Shalit, Herbert S.; and Singh, Shiva S., 4,688,608, Cl. 141-39.000.
Rockerath, John L., 4,666,094, Cl. 242-7.020.
Schillaci, Samuel P., 4,687,640, Cl. 422-120.000.
Vicenzi, Reno L.; and Ansite, William K., 4,651,731, Cl. 128-204.250.
Westbrook, Theodore E.; Kent, James V.; and Kuzemsky, David, 4,658,565, Cl. 53-308.000.

Figgins, Dale A.; and Grove, J. Jay, to Atlantic Richfield Company. Disposal of petroleum sludge. 4,666,585, 5-19-87, Cl. 208-131.000.

Figiel, Francis J.; and Osterman, Harry F., to Allied Corporation. Process for removal of surface films from non-absorbent articles. 4,636,320, 1-13-87, Cl. 210-801.000.

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Zyhowski, Gary J.; and Figiel, Francis J., 4,689,170, Cl. 252-194.000.

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Figler, Alan A.; Grimm, Daniel J.; Goloski, Leonard F.; and Martucci, James P., to Baxter Travenol Laboratories, Inc. Safety system for heating conduit. 4,647,219, 3-3-87, Cl. 374-1.000.

Figler, Alan A.; and Di Gianfilippo, Alcandro, to Baxter Travenol Laboratories, Inc. Compounding system. 4,653,010, 3-24-87, Cl. 364-502.000.

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Figlia, Betty J.; and Spector, George. Surgical gloves. 4,658,444, 4-21-87, Cl. 2-161.00R.

Figliola, Vincent N. Bath product and method for treating bath water. 4,659,495, 4-21-87, Cl. 252-90.000.

Figliuzzi, Vincent D., to Vindof Incorporated. Timing adjusted engine and conversion kit therefor. 4,660,513, 4-28-87, Cl. 123-65.00A.

Figone, Frank M. Intrinsically hinged load member. 4,671,028, 6-9-87, Cl. 52-108.000.

Figone, Frank M. Seamless foldable boat. 4,706,597, 11-17-87, Cl. 114-353.000.

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Figos, Societe Anonyme: *See—*
Mestdagh, Jacques, 4,682,826, Cl. 312-42.000.

Figueroa, Jose L. Combination table cover and skirt retainer. 4,708,183, 11-24-87, Cl. 150-52.00R.

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Slayman, Charles W.; and Figueroa, Luis, 4,696,648, Cl. 437-5.000.

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Dohmen, Gerardus M.; Fijnvandraat, Jacob G.; and Sastra, Budiman, 4,706,146, Cl. 360-122.000.

Fike Corporation: *See—*
Malcolm, Eddie R., 4,662,126, Cl. 52-1.000.
Swift, Ian; and Fauske, Hans K., 4,670,404, Cl. 436-147.000.

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Balzer, Wolf-Dieter; Bechtolsheimer, Hans-Heinrich; Beyer, Karl-Heinz; Fikentscher, Rolf; Perner, Johannes; Widder, Rudi; and Wolf, Helmut, 4,693,848, Cl. 260-402.000.
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Oftring, Alfred; Hahn, Erwin; and Fikentscher, Rolf, 4,670,591, Cl. 564-224.000.

  - Streit, Werner; Witt, Linda; Angstmann, Heinz-Dieter; Blanckenhorn, Rolf; and Fikentscher, Rolf, 4,654,043, Cl. 8-189.000.
- Filardo, Giuseppe: *See—*
  - Silvestri, Giuseppe; Gambino, Salvatore; and Filardo, Giuseppe, 4,708,780, Cl. 204-59.00R.
- Filary, Gerard: *See—*
  - Le Pargneux, Jacques; Bonnamour, Michel; and Filary, Gerard, 4,653,180, Cl. 29-723.000.
- Filature de La Gosse S.A.: *See—*
  - Saingier, Jean; and Joly, Jean-Pierre A., 4,652,267, Cl. 8-115.510.
- Filauro, Paolo; and Musso, Giorgio, to Elettronica San Giorgio - ELSAG S.p.A. Electronic graphic detecting head. 4,673,804, 6-16-87, Cl. 235-463.000.
- Filby, Charles E. Sanding tool. 4,639,989, 2-3-87, Cl. 29-79.000.
- Filcich, Nevio; and Owen, Robert A. T., to Filcich, Nevio. Method and apparatus for machine safety. 4,660,703, 4-28-87, Cl. 192-130.000.
- Filcon Corporation: *See—*
  - Niemeyer, Trenton A., 4,674,492, Cl. 128-202.220.
- Fildan, Gerhard. Bolt assembly for a door set. 4,691,951, 9-8-87, Cl. 292-337.000.
- Fildan, Gerhard. Strap fastener. 4,712,280, 12-15-87, Cl. 24-625.000.
- Fildes, John M.; and Krueger, Robert H., to Borg-Warner Corporation. Cutting tool wear monitor. 4,694,686, 9-22-87, Cl. 73-104.000.
- Fildes, Neal R., to AT&T Bell Laboratories. Parallel bus protocol. 4,636,939, 1-13-87, Cl. 364-200.000.
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- Fileccia, Robert J.: *See—*
  - Matherly, Joseph E.; Fileccia, Robert J.; and Benson, Leslie J., 4,646,970, Cl. 239-111.000.
- Filenet Corporation: *See—*
  - Rudy, Michael; Cary, Paul; and Anderson, Gary S., 4,675,856, Cl. 369-36.000.
  - Rudy, Michael; Cary, Paul; Anderson, Gary S.; and Roth, Arthur A., 4,685,095, Cl. 369-36.000.
- Filer & Stowell Co., Inc.: *See—*
  - Nutt, Michael D., 4,676,130, Cl. 83-155.000.
- Files, Edmee: *See—*
  - Brennan, Anthony; and Files, Edmee, 4,657,992, Cl. 525-482.000.
- Files, William C.; Pellerin, Norvin L.; Rodboon, Somsak S.; and Pearce, Thomas M., to Pellerin Milnor Corporation. Apparatus for treating cloth goods. 4,640,024, 2-3-87, Cl. 34-133.000.
- Filewich, Paul T., to Harris Graphics Corporation. Vacuum system for combination fold-off control. 4,666,139, 5-19-87, Cl. 270-54.000.
- Filho, Jorge H.; and Bachmann, Dorian L., to Petroleo Brasileiro S.A. - Petrobras. Process for separating water and solids from fuels. 4,707,275, 11-17-87, Cl. 210-787.000.
- Filhol, Pierre, to Societe Xeram. Substrate of dielectric ceramic material and process for manufacturing the same. 4,668,644, 5-26-87, Cl. 501-119.000.
- Filhol, Robert: *See—*
  - Demarne, Henri; Filhol, Robert; and Mosse, Madeleine, 4,691,043, Cl. 560-064.000.
- Filhol, Stuart J. Dental pin and holder. 4,692,116, 9-8-87, Cl. 433-225.000.
- Filiberti, Antonio. Ball valve, particularly for gases. 4,714,236, 12-22-87, Cl. 251-315.000.
- Filimonov, Viktor A.: *See—*
  - Bruduy-Chelyadinov, Sergei J.; Budyansky, Vigdor S.; and Filimonov, Viktor A., 4,676,716, Cl. 415-144.000.
- Filipovich, Danny, to FJW Industries, Inc. Compact see-through night vision goggles. 4,653,879, 3-31-87, Cl. 350-538.000.
- Filippi, Arthur M.; and Sprecace, Richard P., to United States of America, Energy. Seal welded cast iron nuclear waste container. 4,700,863, 10-20-87, Cl. 220-67.000.
- Filippi, Joseph J. In-tank fuel filter. 4,645,600, 2-24-87, Cl. 210-416.400.
- Filippi, Renato; and Beatrice, Angelo, to Weber S.p.A. Azienda Altecna. Constant-pressure delivery valve for fuel injection pumps for diesel engines. 4,651,779, 3-24-87, Cl. 137-493.300.
- Filippi, Renato; and Turchi, Sergio, to Weber S.p.A. Azienda Altecna. Fuel injection pump for diesel engines. 4,699,112, 10-13-87, Cl. 123-506.000.
- Filippi, Renato: *See—*
  - Turchi, Sergio; and Filippi, Renato, 4,709,680, Cl. 123-467.000.
- Filippini, Gualtiero: *See—*
  - Mattei, Riccardo; Gorrieri, Giordano; and Filippini, Gualtiero, 4,693,051, Cl. 53-148.000.
- Filippov, Anatoly I.: *See—*
  - Melgui, Mikhail A.; Kratirov, Valery B.; Filippov, Anatoly I.; and Deinekin, Viktor V., 4,647,856, Cl. 324-239.000.
- Filippuzzi, Fabiola: *See—*
  - De Lucchi, Ottorino; Filippuzzi, Fabiola; Modena, Giorgio; and Camera, Ettore, 4,713,466, Cl. 549-464.000.
- Filips, Chester P.; and Blanco, Antonio G. Arterial anchor bandage. 4,633,863, 1-6-87, Cl. 128-165.000.
- Filips, Chester P.; and Blanco, Antonio G. Mattress. 4,665,574, 5-19-87, Cl. 5-462.000.
- Filiz, Alain; and Ascolese, Salvatore J., to L'Oreal. Cosmetic compact with pinless internal hinge. 4,685,558, 8-11-87, Cl. 206-1.500.
- Filkins, Timothy J., to Chrysler Motors Corporation. Transmission vibration viscous damper. 4,677,868, 7-7-87, Cl. 74-359.000.
- Fillers, Wayne L. Guessing game and associated playing method. 4,685,672, 8-11-87, Cl. 273-1.00R.
- Fillet, Pierre R., to Vallourec. Knurled drill stem. 4,691,791, 9-8-87, Cl. 175-320.000.
- Filliman, Mark D., and Granzow, Robert H., to NCR Corporatio Personal identification method and apparatus. 4,656,662, 4-7-87, C 382-3.000.
- Filliman, Paul D.; Harwood, Leopold A.; Keen, Ronald T.; and Parke Robert P., to RCA Corporation. Television receiver with selecta video input signals. 4,660,084, 4-21-87, Cl. 358-171.000.
- Filliman, Paul D., to RCA Corporation. Regulating power supply video display apparatus. 4,679,131, 7-7-87, Cl. 363-21.000.
- Filliman, Paul D.: *See—*
  - Harwood, Leopold A.; Filliman, Paul D.; and Keen, Ronald T 4,660,085, Cl. 358-171.000.
- Fillingame, Gary P.: *See—*
  - Bornstein, Leopold F., deceased; and Fillingame, Gary P 4,661,412, Cl. 428-426.000.
- Fillios, Jean P. R. Hot liquid generator with condensation and instal tion incorporating this generator. 4,655,174, 4-7-87, Cl. 122-261.00
- Fillipo, Bruce K.: *See—*
  - Walterick, Gerald C., Jr.; and Fillipo, Bruce K., 4,661,259, C 210-666.000.
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- Fillman, Russell L., to Woodford Manufacturing Company. Freezeles ground hydrant and method for operating same. 4,653,521, 3-31-8 Cl. 137-1.000.
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- Fillmore, William E., to Owens-Illinois, Inc. Vacuum indicating the moplastic closure. 4,678,082, 7-7-87, Cl. 206-459.000.
- Fillot, Alain; Galiot, Jean; Paltrier, Sylvain; and Schaub, Bernard, Commissariat a l'Energie Atomique. Process for producing a pol crystalline alloy. 4,654,196, 3-31-87, Cl. 420-525.000.
- Filmer, Alan M., to Development Finance Corporation of Ne Zealand, Limited. Display units. 4,641,442, 2-10-87, Cl. 40-219.00
- Filmosto-Projektion Johannes Jost GmbH & Co.: *See—*
  - Jost, Jochen; and Handschke, Detlef, 4,662,960, Cl. 156-108.00
- Filomeno, Vito G., to Warner-Lambert Company. Skin bleacing detergent bar. 4,692,261, 9-8-87, Cl. 252-105.000.
- Filonov, Alexandr D.: *See—*
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- Filonov, Arkady S.: *See—*
  - Golubenko, Alexandr L.; Turchin, Viktor P.; Konyaev, Alexe Sukhov, Igor N.; Kaljuzhny, Nikolai N.; Filonov, Arkady S Koropets, Alexei P.; Pinovsky, Mikhail I.; Tkachenko, Viktor and Kramar, Nikolai M., 4,635,990, Cl. 295-11.000.
- Filoseta, Miva A.: *See—*
  - Rich, Hubert A.; Filoseta, Miva A.; and Ostendorff, Eric 4,659,320, Cl. 446-435.000.
- Filper Corporation: *See—*
  - Banys, Algis R., 4,700,755, Cl. 141-114.000.
- Filper Industries, Inc.: *See—*
  - Coatney, Charles W., 4,707,138, Cl. 356-402.000.
- Filreis, Manuel: *See—*
  - Sorlien, Mark D.; Filreis, Manuel; and Seim, William J., 4,657 Cl. 339-14.00R.
- Filson, Allen G.: *See—*
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- Filter Plate Company: *See—*
  - Batutis, Edward F., 4,643,834, Cl. 210-740.000.
- Filter, Reinhard: *See—*
  - Kortschinski, Juri; Mintz, John D.; and Filter, Reinhard, 4,685 Cl. 361-42.000.
- Filter Specialists, Inc.: *See—*
  - Asterlin, Gunther E., 4,669,167, Cl. 29-426.600.
- Filterwerk Mann & Hummel GmbH: *See—*
  - Erdmannsdoerfer, Hans; Numrich, Rudi; Wagner, Manfred a Weyh, Gerd, 4,670,233, Cl. 423-213.200.
  - Gerlach, Paul; and Muller, Heinz E., 4,688,511, Cl. 116-268.00
- Filton International Co.: *See—*
  - Kumaoka, Shunichi, 4,652,376, Cl. 210-694.000.
- Filtration Water Filters for Agriculture and Industry Ltd.: *See—*
  - Barzuza, Ytzhak, 4,643,828, Cl. 210-412.000.
- Filtres Philippe S.A.: *See—*
  - Fayoux, Christian; and Haubry, Andre, 4,676,902, Cl. 210-350.00
- Filtromatic Corp.: *See—*
  - Wender, Harry, 4,702,383, Cl. 215-232.000.
- Filtron Technology Corp.: *See—*
  - Friedman, Denis R., 4,715,955, Cl. 210-346.000.
- Filtronic Components Limited: *See—*
  - Mobbs, Christopher I.; and Rhodes, J. David, 4,636,913, C 361-182.000.
- Fima, Henri; and Janiaud, Denis, to Crouzet; and Office Nation d'Etudes et de Recherches Aerospatiales (ONERA). Vibrating str resonator. 4,710,668, 12-1-87, Cl. 310-323.000.
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  - Zangheri, Carlo, 4,644,731, Cl. 53-411.000.
- Fimtessile Fabbrica Italiana Macchinario Tessile S.p.A.: *See—*
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Finch, Curtis L., to Babcock & Wilcox Company, The. Tube expanding method. 4,635,333, 1-13-87, Cl. 29-157.400.

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Finch, Richard D. Exercise device. 4,664,370, 5-12-87, Cl. 272-67.000.

Finch, Stephen C.: *See—*

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Findeis, Gunter: *See—*

  Rauh, Hans-Jurgen; Findeis, Gunter; Biedermann, Ernst; and Knor, Bernhard, 4,704,026, Cl. 355-38.000.

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Findlay, John W. A.: *See—*

  Coker, Geoffrey G.; and Findlay, John W. A., 4,690,933, Cl. 514-343.000.

  McDermed, John D.; Findlay, John W. A.; and Coker, Geoffrey G., 4,634,699, Cl. 514-223.000.

Findlay, Raymond D.: *See—*

  Dahleh, Joseph H.; and Findlay, Raymond D., 4,639,544, Cl. 174-32.000.

Findlay, Robert H.: *See—*

  Allen, Kenneth C., Jr.; and Findlay, Robert H., 4,702,273, Cl. 137-487.500.

Fine, Edward J. Goniometric feedback device and method for monitoring angles of body joints. 4,667,685, 5-26-87, Cl. 128-782.000.

Fine Foods Research Cooperative Union: *See—*

  Matsuda, Eiichi, 4,714,618, Cl. 426-524.000.

Fine Lines International Ltd.: *See—*

  Chappell, Richard L.; and Chappell, Alice M., 4,716,503, Cl. 362-97.000.

Fine, Marc: *See—*

  Boner, James C.; Berger, Mitchel S.; and Fine, Marc, 4,681,103, Cl. 128-303.00B.

Fine Organics Limited: *See—*

  Hollowood, John; Jackson, Arthur; and Heyes, Graham, 4,687,845, Cl. 544-54.000.

Fine Particle Technology Corp.: *See—*

  Wiech, Raymond E., Jr., 4,661,315, Cl. 419-10.000.

Fineberg, Douglas H., to Dresser Industries, Inc. Apparatus for securing a measurement-while-drilling (MWD) instrument within a pipe. 4,681,160, 7-21-87, Cl. 166-212.000.

Fineblum, Solomon S., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Connector contact terminal. 4,679,890, 7-14-87, Cl. 439-884.000.

Finegold, Aaron N.; and Taylor, Maurice E., to Finegold, Aaron N. Implantable prosthesis system. 4,711,231, 12-8-87, Cl. 128-79.000.

Finegold, Hyman B.; and Dolgas, Patrick A., to Globe Tool and Engineering Company, The. Flat coil dynamoelectric device with encapsulated preform. 4,677,334, 6-30-87, Cl. 310-269.000.

Finegold, Hyman B.: *See—*

  Beakes, John M.; and Finegold, Hyman B., 4,710,085, Cl. 414-27.000.

Finer, Paul; Wahl, Robert O.; and Silverman, William, to UPA Technology, Inc. Calibration standard for X-ray fluorescence thickness. 4,646,341, 2-24-87, Cl. 378-207.000.

Fines, James R.: *See—*

  Jerinic, George; Steele, Robert; and Fines, James R., 4,689,583, Cl. 331-56.000.

Finest Marking Supplies, Inc.: *See—*

  Scrudato, Frederick; and St. John, John, 4,699,054, Cl. 101-330.000.

Finetex, Inc.: *See—*

  Novakovic, Mario; and Abend, Phillip G., 4,696,767, Cl. 252-557.000.

Finfinger, Gerald L.; King, Roger L.; and Marshall, Thomas E., to United States of America, Interior. Gas content determination of evaporite formations using acoustic emissions during dissolution. 4,679,435, 7-14-87, Cl. 73-594.000.

Finfrock, Don C.: *See—*

  Kelch, Russell K.; Finfrock, Don C.; Girard, Donald J.; Seevers, Daniel B.; Briggs, Barry D.; and Mathes, Gene R., 4,683,531, Cl. 364-200.000.

Finger, David: *See—*

  Clark, Jeffrey; Finger, David; Vanover, Ron; and Egan, Mike, 4,659,288, Cl. 416-186.00R.

Finger, Eugene P., to Curtis Instruments, Inc. Solid-state cumulative operations measurement system. 4,712,195, 12-8-87, Cl. 365-226.000.

Finger, Hansjorg, to H. Finger, Firma. Compass-watch case. 4,702,612, 10-27-87, Cl. 368-10.000.

Finger, John F.; and Lawrenson, Glen A., to Sioux Steam Cleaner Corporation. Combination cleaner safety circuit. 4,678,892, 7-7-87, Cl. 219-272.000.

Finger, Otto R., to DCI Marketing. Sign apparatus with movable sleeve. 4,663,872, 5-12-87, Cl. 40-488.000.

Finger, Stephen N., to United States of America, Air Force. Self-retained platform cooling plate for turbine vane. 4,712,979, 12-15-87, Cl. 416-96.00R.

Finger, Werner: *See—*

  Walkowiak, Michael; Nehren, Klaus; Podszun, Wolfgang; and Finger, Werner, 4,707,504, Cl. 523-109.000.

Fingerhut, Arthur L.; and Fingerhut, Howard W., to Fingerhut, Arthur L. Composite insulation material. 4,685,155, 8-11-87, Cl. 2-272.000.

Fingerhut, Howard W.: *See—*

  Fingerhut, Arthur L.; and Fingerhut, Howard W., 4,685,155, Cl. 2-272.000.

Fingerle, Dieter; and Habel, Gernot, to Feldmuehle Aktiengesellschaft. Operating element for operating the valves of an internal combustion engine. 4,643,144, 2-17-87, Cl. 123-90.390.

Fingermatrix, Inc.: *See—*

  Schiller, Michael, 4,685,145, Cl. 382-52.000.

  Schiller, Michael, 4,696,046, Cl. 382-5.000.

Fini Elettrocostruzioni Meccaniche, S.p.A.: *See—*

  Zambelli, Paolo, 4,708,606, Cl. 417-559.000.

Finic, B.V.: *See—*

  Ressi di Cervia, Arturo L., 4,696,607, Cl. 405-267.000.

Finike Italiana Marposs S.p.A.: *See—*

  Danielli, Franco; and Solaroli, Sergio, 4,680,865, Cl. 33-143.00L.

Fink, Anton. High speed chuck assembly. 4,676,516, 6-30-87, Cl. 279-1.00C.

Fink, Arthur C., Jr., to Husky Corporation. No pressure shut off for automatic fuel nozzle valve. 4,658,987, 4-21-87, Cl. 222-52.000.

Fink, Arthur C., Jr., to Husky Corporation. Butterfly valve for fluid flow line. 4,667,883, 5-26-87, Cl. 239-569.000.

Fink, David J.; and Cooper, Frank W., Jr., to Westinghouse Electric Corp. Nuclear reactor fuel assembly grid measuring method and device. 4,649,650, 3-17-87, Cl. 33-143.00L.

Fink, Ernst: *See—*

  Fritz, Hans; Dodt, Johannes; Seemuller, Ursula; and Fink, Ernst, 4,654,302, Cl. 435-70.000.

Fink, Garold K.: *See—*

  Yantsen, Ivan A.; Bekishev, Kenes K.; Savchak, Orest G.; Klok, Alexandr B.; Zhanabaev, Tolgat M.; Pakshtas, Mechislav-Valentinas K.; Glotov, Boris N.; Fink, Garold K.; Timkin, Alexei F.; Zorin, Nikolai I.; and Bobylev, Leonid M., 4,658,913, Cl. 173-134.000.

Fink, Gerald A.: *See—*

  DeWitt, Carl; and Fink, Gerald A., 4,697,405, Cl. 56-10.400.

Fink, Gerald R.: *See—*

  Botstein, David; Davis, Ronald W.; Fink, Gerald R.; Taunton-Rigby, Alison; Knowlton, Robert G.; Mao, Jen-i; Moir, Donald T.; and Goff, Christopher G., 4,661,454, Cl. 435-256.000.

  Botstein, David; Fink, Gerald R.; and Davis, Ronald W., 4,695,470, Cl. 426-37.000.

Fink, Hans, to Bata Schuh AG. Shoe insole. 4,680,877, 7-21-87, Cl. 36-44.000.

Fink, Hans-Ferdi: *See—*

  Fock, Jurgen; Esselborn, Eberhard; Fink, Hans-Ferdi; and Heilen, Wernfried, 4,692,267, Cl. 252-321.000.

Fink, Henry: *See—*
  Palmer, William B.; and Fink, Henry, 4,682,804, Cl. 294-82.260.
Fink, Herbert; Hubner, Klaus; and Kniese, Heiner, to Rohm GmbH Chemische Fabrik. Bound textile sheet and procedure for its manufacture. 4,689,264, 8-25-87, Cl. 428-290.000.
Fink, Irving E. Heart valve. 4,661,107, 4-28-87, Cl. 623-2.000.
Fink, Karl. Melting furnace. 4,697,792, 10-6-87, Cl. 266-248.000.
Fink, Ludwig; and Toussaint, Hans-Norbert, to Siemens Aktiengesellschaft. Optical fiber plug device including fiber for monitoring a light source. 4,678,265, 7-7-87, Cl. 350-96.200.
Fink, Manfred; and Junginger, Klaus M., to C. & E. Fein GmbH & Co. Power-screwdriver device with variable torque adjustment. 4,671,364, 6-9-87, Cl. 173-12.000.
Fink, Reinhold: *See—*
  Dolata, Hans; Fink, Reinhold; Itzrodt, Gerd; Kelbert, Adam; Ryssel, Siegfried; Wehle, Anton; Wieland, Dieter; and Zerrer, Gerhard, 4,644,658, Cl. 30-381.000.
Fink, Thomas F., Jr.; Harris, William O.; and Reiling, Gilbert H., to General Electric Company. Adjustable mount for a high intensity lamp. 4,675,794, 6-23-87, Cl. 362-289.000.
Fink, Werner; and Bohn, Heinz, to ITT Industries, Inc. Liquid ring vacuum pump arrangement having minimized operating liquid consumption. 4,692,101, 9-8-87, Cl. 417-68.000.
Fink, Werner: *See—*
  Bohn, Heinz; Fink, Werner; and Luhmann, Reinhold, 4,655,688, Cl. 417-18.000.
Finkbeiner, James; and Brookhouse, Lee, to Haworth Inc. Raceway for curved wall panel. 4,703,985, 11-3-87, Cl. 439-207.000.
Finkbeiner, Walter. Apparatus for ensuring synchronism in lifting jacks. 4,661,749, 4-28-87, Cl. 318-41.000.
Finkbeiner, Werner; and Schorn, Franz, to Hans Grohe GmbH & Co. KG. Water jet aeration for sanitary fittings and the like. 4,637,552, 1-20-87, Cl. 239-428.500.
Finkbeiner, Werner, to Hans Grohe GmbH & Co. KG. Shower head. 4,669,666, 6-2-87, Cl. 239-438.000.
Finke, Paul E.; Doherty, James B.; Zimmerman, Morris; Ashe, Bonnie M.; and Dorn, Conrad P., to Merck & Co., Inc. β-lactam derivatives as anti-inflammatory and antidegenerative agents. 4,711,886, 12-8-87, Cl. 514-195.000.
Finke, Paul E.: *See—*
  Doherty, James B.; Finke, Paul E.; Firestone, Raymond A.; Shah, Shrenik S.; and Thompson, Kevan R., 4,637,999, Cl. 514-201.000.
  Doherty, James B.; Finke, Paul E.; Hagmann, William K.; and Shah, Shrenik K., 4,699,904, Cl. 514-202.000.
Finke, Ronald J.; Mullen, Victor J.; Williams, Danny R.; Morris, Robert J.; and Tucker, Charles E., to Houston Industries, Incorporated. Power line working apparatus. 4,661,662, 4-28-87, Cl. 200-48.00R.
Finkel, Gilbert. Chocolate compositions of increased viscosity and method for preparing such compositions. 4,664,927, 5-12-87, Cl. 426-330.000.
Finkel, Gilbert: *See—*
  Werner, John; and Finkel, Gilbert, 4,663,175, Cl. 426-289.000.
Finkel, Henry; and Thomas, Allan. Sanitary, disposable baby change kit. 4,702,378, 10-27-87, Cl. 206-581.000.
Finkel, Joel R.; and Jacobs, Paul F., to Xerox Corporation. Secure identification card manufacture. 4,671,839, 6-9-87, Cl. 156-257.000.
Finkel, Joel R.; Jacobs, Paul F.; Gustafson, Kenneth L.; and Green, William D., to Xerox Corporation. Method and apparatus for the prevention of unauthorized copying of documents. 4,678,322, 7-7-87, Cl. 355-133.000.
Finkel, Mitchell W., to United States of America, National Aeronautics and Space Administration. Optical scanner. 4,647,144, 3-3-87, Cl. 350-6.500.
Finkel Outdoor Products, Inc.: *See—*
  Killian, Edmund, 4,700,915, Cl. 248-188.100.
Finkelman, Fred D., to United States of America, Navy. Enhancement of specific antibody production with anti-IgD antibodies. 4,689,400, 8-25-87, Cl. 530-389.000.
Finkelshteyn, Leonid: *See—*
  Dumesnil, Maurice E.; Starz, Karl; and Finkelshteyn, Leonid, 4,699,888, Cl. 501-19.000.
Finkelstein, Abraham E., to Ebert, Michael. Combined chrysotherapeutic agents for autoimmune diseases. 4,657,763, 4-14-87, Cl. 424-131.000.
Finkelstein, Richard A.; and Zhengshi, Yang, to University of Missouri, The Curators of the. Rapid particle agglutination test for enterotoxigenic bacteria. 4,677,080, 6-30-87, Cl. 436-534.000.
Finken, Kenneth R., to Harris Corporation. Low VSWR, flush-mounted, adaptive array antenna. 4,675,685, 6-23-87, Cl. 343-708.000.
Finkl, Charles W., to A. Finkl & Sons Co. Method for post-melting treatment of molten steel. 4,655,826, 4-7-87, Cl. 75-10.660.
Finkle, Louis J., to Goodman, Larry K. Magnetic holding device. 4,652,845, 3-24-87, Cl. 335-285.000.
Finkler, Klaus; and Wolf, Hans-Dieter, to Siemens Aktiengesellschaft. X-ray diagnostic apparatus. 4,658,412, 4-14-87, Cl. 378-99.000.
Finlayson, Claude M.; Cody, Charles A.; Kemnetz, Steven J.; Reichert, William W.; Magauran, Edward D.; and Johnson, Johnny R., to NL Chemicals, Inc. Organophilic clay gellants and process for preparation. 4,695,402, 9-22-87, Cl. 252-315.200.
Finlayson, John W.: *See—*
  Boyers, Charles L.; and Finlayson, John W., 4,659,530, Cl. 264-315.000.
Finlayson, Steven E.: *See—*
  Newman, Ritchey O.; and Finlayson, Steven E., 4,659,412, Cl. 156-322.000.
Finley, Harry W. Process and apparatus for utilizing engine exhaus heat in oil field operations. 4,699,719, 10-13-87, Cl. 210-742.000.
Finley, James J.: *See—*
  Gillery, F. Howard; Criss, Russell C.; and Finley, James J., 4,716,086, Cl. 428-630.000.
Finley, James W.: *See—*
  Kelley, Anthony D.; Finley, James W.; Eachus, Vernon F.; Lim, Richard A.; and Yano, Miles K., 4,702,439, Cl. 244-158.00A.
Finley, Joseph H.; Severns, Richard R.; and Zakotnik, Robert M., to FMC Corporation. Formcoke having modified bituminous binder. 4,698,067, 10-6-87, Cl. 44-15.00B.
Finley, Martha N.; and Spector, George. Vacuum cleaner exhaust dust collector. 4,678,485, 7-7-87, Cl. 55-255.000.
Finley, Roland L.: *See—*
  Pinson, George T.; Reinhold, Ralph R.; and Finley, Roland L., 4,656,349, Cl. 250-203.00R.
Finley, Rufus E., to Unisys Corp. Asynchronous checkpointing system for error recovery. 4,697,266, 9-29-87, Cl. 371-12.000.
Finley, Stanton M. Method and apparatus for testing direct current motors and generators, electromagnetic devices, and the like. 4,658,213, 4-14-87, Cl. 324-158.0MG.
Finn, Chris J.; and Youngner, Daniel W., to Honeywell Inc. Process for controlling mobile ion contamination in semiconductor devices. 4,679,308, 7-14-87, Cl. 29-576.00B.
Finn, Everett N.: *See—*
  Sexstone, John H.; Finn, Everett N.; Lowe, Byron L.; and Millner, Ken M., 4,636,183, Cl. 493-42.000.
Finn, Lyle D.; and Steele, Kenneth M., to Exxon Production Research Company. Pile assembly for an offshore structure. 4,696,604, 9-29-87, Cl. 405-227.000.
Finn, Lyle D.: *See—*
  Danaczko, Mark A.; Finn, Lyle D.; Glasscock, M. Sidney; Piazza, Michael P.; Steele, Kenneth M.; and Weaver, Timothy O., 4,696,603, Cl. 405-227.000.
Finn, Patrick J.; Glover, Linda M.; Henry, Arnold W.; and Lux, Adalbert A., to Xerox Corporation. Release agent donor member and fusing assembly containing same. 4,659,621, 4-21-87, Cl. 428-339.000.
Finn, Peter J.: *See—*
  Kitchin, Jonathan P.; Powers, Stephen R.; Penfound, Keith A.; Finn, Peter J.; and Fisher, Michael G., 4,705,745, Cl. 430-505.000.
Finn, Richard F.: *See—*
  Munsell, Monroe W.; and Finn, Richard F., 4,683,070, Cl. 252-33.400.
Finn, Roger C.; and MacKenzie, Morley S., to Northern Telecom Limited. Optical fiber splice. 4,678,272, 7-7-87, Cl. 350-96.210.
Finnan, Jeffrey L., to BASF Corporation. Alpha tocopherol process. 4,634,781, 1-6-87, Cl. 549-411.000.
Finnan, Jeffrey L., to BASF Corporation. Alpha tocopherol process. 4,639,533, 1-27-87, Cl. 549-411.000.
Finnan, Jeffrey L.; Lisa, Rudolph E.; and Schmidt, Douglass N., to BASF Corporation. Process for preparing spray dried acetaminophen powder and the powder prepared thereby. 4,710,519, 12-1-87, Cl. 514-629.000.
Finnegan, John P.: *See—*
  Chiampas, George E.; Finnegan, John P.; and Villegas, Henry, 4,680,495, Cl. 310-220.000.
Finnegan, Walter D., to Kaiser Aluminum & Chemical Corporation. Thermal treatment of brazed products for improved corrosion resistance. 4,699,674, 10-13-87, Cl. 148-127.000.
Finnell, Dennis C.: *See—*
  Antone, Wayne L., II; and Finnell, Dennis C., 4,711,634, Cl. 439-136.000.
Finnell, James S.; and Steps, Steven C., to Hewlett-Packard Company. Apparatus for locating memory modules having different sizes within a memory space. 4,654,787, 3-31-87, Cl. 364-200.000.
Finnell, James S., to Hewlett-Packard Company. Apparatus for locating a memory module within a memory space. 4,679,167, 7-7-87, Cl. 364-900.000.
Finneran, James G. Capsule holder. 4,669,771, 6-2-87, Cl. 294-99.200.
Finnerty, Edmund F. Topical treatment of herpes simplex with a zinc sulfate-camphor water solution. 4,661,354, 4-28-87, Cl. 424-145.000.
Finnerty, John D.: *See—*
  Roberts, Peter A.; Norton, Hamish W. M.; and Finnerty, John D., 4,648,038, Cl. 364-408.000.
Finney, Donald L.: *See—*
  Toub, Melvin R.; and Finney, Donald L., 4,640,956, Cl. 524-779.000.
Finney, James E.; and Brubaker, Weldon L., to Molex Incorporated. Method of manufacturing a carrier assembly. 4,697,340, 10-6-87, Cl. 29-862.000.
Finney, James L., to Dynapert-HTC Corporation. Temperature sensors for vapor processing systems. 4,699,080, 10-13-87, Cl. 118-666.000.
Finney, James L.: *See—*
  Spigarelli, Donald J.; Peck, Douglas J.; and Finney, James L., 4,685,605, Cl. 228-37.000.
  Spigarelli, Donald J.; Peck, Douglas J.; and Finney, James L., 4,697,730, Cl. 228-37.000.
Finney, Roy P., to Medical Engineering Corporation. Penile prosthesis. 4,682,589, 7-28-87, Cl. 128-79.000.
Finnigan Corporation: *See—*
  Fies, William J., Jr.; Kelley, Paul E.; Reynolds, Walter E.; Stafford, George C., Jr.; and Syka, John E. P., 4,650,999, Cl. 250-282.000.
  Johnson, Bruce S.; and Taylor, Dennis M., 4,684,204, Cl. 439-863.000.
  Louris, John N.; Syka, John E. P.; and Kelley, Paul E., 4,686,367, Cl. 250-290.000.

  - Steiner, Urs; Hurst, James; and Schier, J. Alan, 4,682,508, Cl. 73-866.500.
- Finnigan, Henry W., to Short Brothers Limited. Apparatus for the control of an aerial propeller. 4,671,736, 6-9-87, Cl. 416-46.000.
- Finot, Jean-Marie, to Groupe Finot. Propulsion system for sailing crafts and ships. 4,674,427, 6-23-87, Cl. 114-39.000.
- Finotto, Martino, to Farchemia S.p.A. Process for the preparation of alfa-L-aspartyl-L-phenyl-alanine alkyl esters. 4,642,367, 2-10-87, Cl. 560-40.000.
- Finsbury (Instruments) Limited: *See*—
  - Freeman, Michael A. R., 4,670,015, Cl. 623-23.000.
- Finstad, Connie L.: *See*—
  - Old, Lloyd J.; Lloyd, Kenneth O.; Oettgen, Herbert F.; Whitmore, Willet F.; Szkudlarek, Jerzy; Finstad, Connie L.; Morrissey, Donna; Ogata, Shun-ichiro; and Ueda, Ryuzo, 4,650,756, Cl. 435-68.000.
- Finsterwalder, Bernd: *See*—
  - Geiger, Michael; Finsterwalder, Bernd; and Kagerer, Franz, 4,648,172, Cl. 29-568.000.
- Finter, Jurgen; Fischer, Walter; and Lohse, Friedrich, to Ciba-Geigy Corporation. Photosensitive compositions of matter comprising epoxide compounds and functional anthraquinones. 4,657,842, 4-14-87, Cl. 430-280.000.
- Finter, Jurgen, to Ciba-Geigy Corporation. Anthroquinonyl photosensitive polymers. 4,677,155, 6-30-87, Cl. 524-781.000.
- Finter, Jurgen: *See*—
  - Fischer, Walter; Finter, Jurgen; and Zweifel, Hans, 4,681,950, Cl. 549-27.000.
  - Kaschig, Jurgen; and Finter, Jurgen, 4,713,422, Cl. 525-326.700.
- Finzel, William A., to Dow Corning Corporation. Process of coating titanate-silane primed surfaces. 4,654,236, 3-31-87, Cl. 427-409.000.
- Finzenhagen, Manfred: *See*—
  - Hurnik, Helmut; Finzenhagen, Manfred; and Jeblick, Werner, 4,714,568, Cl. 252-350.000.
- Fiocco, Maria G. Perfume dispensing container. 4,669,637, 6-2-87, Cl. 222-187.000.
- Fiocco, Robert J., to Exxon Research & Engineering Co. High capacity reciprocating plate extractor. 4,634,578, 1-6-87, Cl. 422-257.000.
- Fiordaliso, Carlo: *See*—
  - Macchiarulo, Vincenzo; and Fiordaliso, Carlo, 4,708,703, Cl. 474-268.000.
- Fiore, John M.: *See*—
  - Marino, Louis S.; Buell, Heinz; and Fiore, John M., 4,675,822, Cl. 364-453.000.
- Fiore, Joseph F., Jr.: *See*—
  - Decker, Joseph A., Jr.; Fiore, Joseph F., Jr.; and Katz, Stanley A., 4,640,392, Cl. 190-108.000.
- Fiore, Joseph V.: *See*—
  - Ostreicher, Eugene A.; Knight, Rodney A.; Fiore, Joseph V.; Emond, George T.; and Hou, Kenneth C., 4,673,504, Cl. 210-500.220.
  - Ostreicher, Eugene A.; Knight, Rodney A.; Fiore, Joseph V.; Emond, George T.; and Hou, Kenneth C., 4,708,803, Cl. 210-650.000.
  - Ostreicher, Eugene A.; Knight, Rodney A.; Fiore, Joseph V.; Emond, George T.; and Hou, Kenneth C., 4,711,793, Cl. 427-244.000.
- Fiore, Timothy J. Contoured body support structure. 4,665,573, 5-19-87, Cl. 5-448.000.
- Fiorentino, Robert J., to Battelle Memorial Institute. Production of billet and extruded products from particulate materials. 4,647,426, 3-3-87, Cl. 419-31.000.
- Fiorenza, Jack, Sr. Storm window assembly. 4,656,778, 4-14-87, Cl. 49-63.000.
- Fiori, David, Jr., to Sensor Technologies, Inc. Sensor apparatus. 4,637,265, 1-20-87, Cl. 73-862.330.
- Fiori, David, Jr., to Sensor Technologies, Inc. Displacement sensor having multiplexed dual tank circuits. 4,663,589, 5-5-87, Cl. 324-208.000.
- Fiori, David, Jr. Digital-to-analog converter. 4,709,224, 11-24-87, Cl. 340-347.0DA.
- Fiori, David, Jr.: *See*—
  - Brosh, Amnon; and Fiori, David, Jr., 4,658,153, Cl. 307-106.000.
- Fiori, Robert, to Commissariat a l'Energie Atomique. Remotely manipulatable clamp. 4,657,284, 4-14-87, Cl. 285-39.000.
- Fiorini, Mario: *See*—
  - De Antoniis, Mario; Fiorini, Mario; and Mazzamurro, Giuseppina, 4,714,769, Cl. 556-419.000.
- Fioris Pty Ltd.: *See*—
  - Rutherford, William; and Tinson, David J., 4,661,245, Cl. 209-399.000.
- Fiornascente, Nicola. Friction drive for automotive and truck accessories. 4,709,587, 12-1-87, Cl. 74-15.630.
- Fiorucci, Elio, to Fiorucci S.p.A. Sewing seam, particularly for jean fabric. 4,693,195, 9-15-87, Cl. 112-262.100.
- Fiorucci S.p.A.: *See*—
  - Fiorucci, Elio, 4,693,195, Cl. 112-262.100.
- FIP Industriale S.p.A.: *See*—
  - Medeot, Renzo, 4,637,656, Cl. 299-1.000.
- Fiquet, Claire: *See*—
  - Grollier, Jean-Francois; Fiquet, Claire; Fourcadier, Chantal; Dubief, Claude; and Cauwet, Daniele, 4,638,822, Cl. 132-7.000.
- Firan Corporation: *See*—
  - Chant, Peter R., 4,707,394, Cl. 428-209.000.
- Fire Detection Devices Ltd.: *See*—
  - Duggan, Jack, 4,651,140, Cl. 340-589.000.
- Fire-Fox International, Inc.: *See*—
  - Caraway, Miles F.; and Caraway, Bobby L., 4,697,639, Cl. 166-82.000.
- Fire Sprinkler Specialties, Inc.: *See*—
  - Capasso, Vincent, 4,676,320, Cl. 169-90.000.
- Firecom, Inc.: *See*—
  - Desjardins, Paul A., 4,665,383, Cl. 340-506.000.
  - Desjardins, Paul A., 4,672,374, Cl. 340-825.070.
- Fireflex Manufacturing, Ltd.: *See*—
  - Carter, Stanley D., and Scott, Blayney, 4,688,643, Cl. 169-33.000.
- Firestone, Raymond A., to Merck & Co., Inc. Allylsulfoxide enzyme inhibitors. 4,654,359, 3-31-87, Cl. 514-400.000.
- Firestone, Raymond A., to Merck & Co., Inc. Allylsulfoxide enzyme inhibitors. 4,670,470, 6-2-87, Cl. 514-665.000.
- Firestone, Raymond A.; and Barker, Peter L., to Merck & Co., Inc. Substituted azetidinones as anti-inflammatory and antidegenerative agents. 4,680,391, 7-14-87, Cl. 540-355.000.
- Firestone, Raymond A.: *See*—
  - Doherty, James B.; Finke, Paul E.; Firestone, Raymond A.; Shah, Shrenik S.; and Thompson, Kevan R., 4,637,999, Cl. 514-201.000.
- Firestone Tire & Rubber Company, The: *See*—
  - Baraldi, Massimo, 4,653,992, Cl. 425-23.000.
  - Bryant, Lynn A.; Roberts, Durward T., Jr.; Beckman, Joseph A.; Tazewell, Joseph H.; and Cetnar, James F., 4,684,420, Cl. 156-116.000.
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  - Hall, James E., 4,647,635, Cl. 526-181.000.
  - Hall, James E., 4,672,097, Cl. 526-174.000.
  - Hayes, Robert A.; and Conard, Wendell R., 4,713,409, Cl. 524-518.000.
  - Hergenrother, William L.; and Greenstreet, Arthur W., 4,708,987, Cl. 525-184.000.
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  - Kay, Edward L.; and Gutierrez, Richard, 4,684,715, Cl. 528-493.000.
  - Kay, Edward L.; and Roskos, Kenneth B., 4,699,968, Cl. 528-61.000.
  - Koch, Russell W., 4,696,332, Cl. 152-367.000.
  - Miller, Nick M., III, 4,670,289, Cl. 427-8.000.
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  - Yang, James H. C.; and Tomaszewski, Walter, 4,638,532, Cl. 24-462.000.
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  - Cholin, John M.; Cholin, Jeffrey G.; and Voorhis, Ray, 4,712,096, Cl. 340-590.000.
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- Firey, Joseph C. Pulverized char fuel injector. 4,653,437, 3-31-87, Cl. 123-23.000.
- Firey, Joseph C. Solid with gas reactor plant. 4,692,171, 9-8-87, Cl. 48-61.000.
- Firey, Joseph C. Cyclic gas with solid reaction plant. 4,698,069, 10-6-87, Cl. 48-61.000.
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  - Leivenzon, Simon; and Leivenzon, Zvi, 4,706,727, Cl. 160-188.000.
- Firmenich SA: *See*—
  - Buchi, George H.; and Wuest, Hans, 4,677,233, Cl. 568-819.000.
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  - Fehr, Charles, 4,647,407, Cl. 252-522.00R.
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  - Tarchini, Claudio, 4,671,798, Cl. 8-522.000.
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  - Crist, Wilmer W.; and Firmin, Dan, 4,709,760, Cl. 166-285.000.
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  - Borchardt, Michael G.; Dorsey, Robert T.; and Kamp, Ewald A., 4,710,968, Cl. 383-63.000.
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  Storey, Robson F.; Dantiki, Sudhakar; Hogue, Melissa L.; and Bayer, Arthur C., 4,666,978, Cl. 525-35.000.

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  Nation, James H.; and Tomlinson, Donald C., 4,633,766, Cl. 98-1.000.

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  Stephan, Walter A.; and Knauseder, Josef, 4,693,140, Cl. 74-579.00R.
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Fischer, William B. Prosthesis, method, and tool for installing same. 4,714,478, 12-22-87, Cl. 623-23.000.

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Fischl, Rolf: *See*—

Jager, Kurt; Rosch, Philipp; Fischl, Rolf; and Wambsganss, Heinrich, 4,670,678, Cl. 310-68.00D.

Fischle, Martin: *See*—

Barlian, Reinhold; Fischle, Martin; and Lux, Karl-Heinz, 4,692,570, Cl. 200-4.000.

Fischli, Albert; Krasso, Anna; Ramuz, Henri; and Szente, Andre, to Hoffmann-La Roche Inc. Tricyclic imidazole derivatives. 4,634,710, 1-6-87, Cl. 514-338.000.

Fischman, Gary S.: *See*—

Herman, Herbert; Fischman, Gary S.; and Bancke, Glenn A., 4,704,298, Cl. 427-34.000.

Fischman, Harry H. Tamper resistant bottle. 4,712,700, 12-15-87, Cl. 215-366.000.

Fischman, Martin: *See*—

Daldry, Kenneth J.; Fischman, Martin; and Rehkopf, Charles H., 4,682,963, Cl. 445-5.000.

Fiscint, Inc.: *See*—

Shen-Orr, Chaim D.; and Berg, Eitan, 4,638,250, Cl. 324-207.000.

Fisco Products Limited: *See*—

Burton, Stan, 4,687,155, Cl. 242-107.300.

Fish, Aaron M.; Mazoff, Stanley S.; D'Intino, Adamo M.; and Somasundaram, Hariharan, to Ilco-Unican Corp. Automatic delay relocking device. 4,640,110, 2-3-87, Cl. 70-269.000.

Fish, Aaron M.; and Dausseing, Jean-Paul, to Ilco-Unican Corp. Deadbolt locking system. 4,643,007, 2-17-87, Cl. 70-134.000.

Fish, Aaron M.; and Somasundaram, Hariharan, to Ilco-Unican Corp. Lock mechanism. 4,663,953, 5-12-87, Cl. 70-380.000.

Fish, Donald D., to W. F. Meyers Company, Inc. Belt-configured saw for cutting slots into stone. 4,679,541, 7-14-87, Cl. 125-21.000.

Fish, Gerald N.; and Cossuth, Joseph J. Fishing line spool holder for a tackle box. 4,708,244, 11-24-87, Cl. 206-315.110.

Fish, Gordon E.; Hasegawa, Ryusuke; and Buff, Ernest D., to Allied Corporation. Methods of and apparatus for monitoring precipitates in metallic materials. 4,634,462, 1-6-87, Cl. 65-29.000.

Fish, Ivan L. Disc shaped holder with an expandable center hole. 4,644,610, 2-24-87, Cl. 24-30.50S.

Fish, Richard H., to United States of America, Energy. Removal of arsenic, vanadium and/or nickel compounds from spent catecholated polymer. 4,659,684, 4-21-87, Cl. 502-25.000.

Fish, William R.: *See—*
Blau, David A.; and Fish, William R., 4,679,568, Cl. 128-696.000.

Fishback, William I. Automotive vehicle dent protection device. 4,643,471, 2-17-87, Cl. 293-128.000.

Fishbein, Marvin: *See—*
Langner, Guenther O.; Harte, Kenneth J.; Dalterio, Michael J.; and Fishbein, Marvin, 4,675,528, Cl. 250-396.00R.

Fishburn, Douglas C., to Fishburn Roofing Sciences Group Limited. Air vapor securement closure for a membrane roofing system. 4,706,432, 11-17-87, Cl. 52-404.000.

Fishburn Roofing Sciences Group Limited: *See—*
Fishburn, Douglas C., 4,706,432, Cl. 52-404.000.

Fisher, Alan D.: *See—*
Hunter, Victor L.; and Fisher, Alan D., 4,702,064, Cl. 56-312.000.

Fisher, Albert W., to RCA Corporation. Patterned metallization for integrated circuits. 4,695,868, 9-22-87, Cl. 357-68.000.

Fisher, Alfred J., III; and Schmidt, Timothy J., to General Safety Corporation. Method of molding an integral spur gear and toothed sprocket assembly. 4,692,294, 9-8-87, Cl. 264-259.000.

Fisher, Anthony C., to Ethicon, Inc. Fibrous structures. 4,657,793, 4-14-87, Cl. 428-36.000.

Fisher, Barbara J.; and Harvey, Ian E., to Harris Corporation. Programmable array logic with shared product terms. 4,644,191, 2-17-87, Cl. 307-465.000.

Fisher, Barbara J., to Harris Corporation. Programmable array logic with shared product terms and J-K registered outputs. 4,644,192, 2-17-87, Cl. 307-465.000.

Fisher, Barbara J.: *See—*
Harvey, Ian E.; Williams, David G.; Fisher, Barbara J.; and Johnson, Timothy J., 4,686,384, Cl. 307-202.100.

Fisher, Brian; and Westmoreland, Raymond R., to Fisher Westmoreland (UK) Limited. Brake actuating system. 4,633,968, 1-6-87, Cl. 180-275.000.

Fisher, Christopher J. Plumb bar. 4,674,188, 6-23-87, Cl. 33-1.00H.

Fisher Controls International, Inc.: *See—*
McGlade, Stuart M., 4,651,571, Cl. 73-773.000.
Varnum, Gerald F.; and Duke, Christopher C., 4,691,573, Cl. 73-702.000.

Fisher, Daniel J., Jr., to BTU Engineering Corporation. Wafer handling station. 4,701,096, 10-20-87, Cl. 414-416.000.

Fisher, David J., to Electric Power Research Institute, Inc. Method for detecting impurities in an oil sample. 4,686,192, 8-11-87, Cl. 436-60.000.

Fisher, Dennis: *See—*
Niblock, John A.; Patel, Jayant; Fisher, Dennis; and Lumb, Anthony P., 4,638,432, Cl. 364-200.000.

Fisher, Dennis H.: *See—*
Scaccia, Carl; Fisher, Dennis H.; and Throckmorton, Peter E., 4,644,015, Cl. 521-129.000.

Fisher, Donald G.: *See—*
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Fisher, Donald L.: *See—*
Logsdon, Terance B., Jr.; and Fisher, Donald L., 4,693,501, Cl. 285-173.000.

Fisher Dynamics Corporation: *See—*
Bell, Robert L., 4,684,174, Cl. 297-367.000.
Bell, Robert L.; and Secord, Tyrone R., 4,687,252, Cl. 297-374.000.
Bell, Robert L., 4,705,319, Cl. 297-362.000.

Fisher, Edmund A.: *See—*
Bartholomew, Roy E.; Pettus, Ronald G.; Schnitzer, Emanuel; and Fisher, Edmund A., 4,646,840, Cl. 166-350.000.

Fisher, Gavin R. Buoyant trampoline. 4,644,892, 2-24-87, Cl. 114-264.000.

Fisher, Gene A.: *See—*
Schumacher, John E., III; and Fisher, Gene A., 4,651,417, Cl. 29-848.000.

Fisher, George A.: *See—*
Baumgartner, Richard A.; Dukes, John N.; and Fisher, George A., 4,638,191, Cl. 307-602.000.
Baumgartner, Richard A.; Dukes, John N.; and Fisher, George A., 4,703,251, Cl. 324-57.00R.

Fisher, Guenter: *See—*
Buechele, Juergen W.; and Fisher, Guenter, 4,693,288, Cl. 144-87.000.

Fisher, Harry L. Rat or mouse trap. 4,662,101, 5-5-87, Cl. 43-69.000.

Fisher, Ina E.; and Raney, Richard C. X-ray shield for fluorescent light tube. 4,684,810, 8-4-87, Cl. 250-515.100.

Fisher, Jack M.: *See—*
Atkinson, Robert W.; and Fisher, Jack M., 4,662,242, Cl. 74-701.000.

Fisher, James R.; and Kulier, Charles P., to Warner-Lambert Company. Pharmaceutical salts of 4-(9-acridinyl-amino) methanesulfon-m-anisidide. 4,704,397, 11-3-87, Cl. 514-297.000.

Fisher, Jared D.: *See—*
Fisher, Susan S.; and Fisher, Jared D., 4,675,928, Cl. 5-400.000.

Fisher, John; and Wheatley, David J., to University of Glasgow, University Court of the. Heart valve prosthesis. 4,687,483, 8-18-87, Cl. 623-2.000.

Fisher, John L.: *See—*
Macemon, Herbert J.; Fisher, John L.; Piatt, Clair E.; Martin, Richard W.; Winbigler, Paul H.; and Aishton, Thomas H., 4,665,952, Cl. 140-92.200.
Macemon, Herbert J.; Schlake, Randall L.; Fisher, John L.; Piatt, Clair E.; and Mohney, Hubert L. R., 4,683,919, Cl. 140-92.200.

Fisher, Kenneth J.: *See—*
Mielnik, Thaddeus J., Jr.; Fisher, Kenneth J.; and Aggarwal, Mahesh C., 4,708,849, Cl. 422-26.000.

Fisher, Lee K., to Cargill Detroit Corporation. Shoe manufacturing system. 4,639,963, 2-3-87, Cl. 12-1.00A.

Fisher, Leo: *See—*
Mozieka, Michael; and Fisher, Leo, 4,656,906, Cl. 83-451.000.

Fisher, Leonard A., to Carlin Company, The. Blower augmentor for power oil and power gas burners. 4,680,006, 7-14-87, Cl. 431-265.000.

Fisher, Leslie G., to BRD Company Limited. Lubrication of hookes universal joints. 4,650,440, 3-17-87, Cl. 464-14.000.

Fisher, Lynn E., to General Electric Company. Electric motor with adjustable switch location. 4,716,326, 12-29-87, Cl. 310-89.000.

Fisher, Martin J.; Heron, Roger A.; and Hughes, Martin L., to National Research Development Corporation. Determining the level of contaminants in a hydraulic system. 4,663,966, 5-12-87, Cl. 73-61.00R.

Fisher, Maurice J.: *See—*
Napier, Brian A.; and Fisher, Maurice J., 4,711,039, Cl. 34-57.00A.

Fisher, Michael G.: *See—*
Kitchin, Jonathan P.; Powers, Stephen R.; Penfound, Keith A.; Finn, Peter J.; and Fisher, Michael G., 4,705,745, Cl. 430-505.000.

Fisher, Michael H.: *See—*
Chabala, John C.; Fisher, Michael H.; and Patchett, Arthur A., 4,659,720, Cl. 514-313.000.

Fisher, Michael M.: *See—*
Kohli, Dalip K.; and Fisher, Michael M., 4,645,803, Cl. 525-423.000.

Fisher, Mike: *See—*
Zieger, Dietmar; Pignoni, Anthony R.; Geise, Heinz-Dieter; Fisher, Mike; and Pointer, R. LaVerne, 4,672,481, Cl. 360-14.100.

Fisher & Paykel Limited: *See—*
Elsworth, Adrian J.; Daniell, Michael G.; Zwaan, Paul; and Stewart, David P. M., 4,708,831, Cl. 261-130.000.

Fisher & Paykel, Private Bag: *See—*
Daniell, Michael G.; and Martin, Gerald S., 4,634,092, Cl. 251-7.000.

Fisher, Richard G.: *See—*
Barton, William M., Jr.; Murphy, John F.; Offerman, Karl B.; and Fisher, Richard G., 4,677,508, Cl. 360-96.500.

Fisher, Richard T.: *See—*
Cronch, Darell D.; Fisher, Richard T.; Graham, Patricia A.; and Passafiume, John E., 4,706,008, Cl. 318-696.000.

Fisher, Robert G.; James, Keith; and Pring, Graham M., to British Petroleum Company p.l.c., The. Impression material. 4,672,081, 6-9-87, Cl. 523-109.000.

Fisher, Robert J., to Magna International Inc. Memory positioning system for remote control rear-view mirror. 4,678,295, 7-7-87, Cl. 350-634.000.

Fisher, Robert K. Engine synchronizer. 4,649,708, 3-17-87, Cl. 60-700.000.

Fisher, Robert L., Jr., to AMP Incorporated. Floating coaxial connector. 4,697,859, 10-6-87, Cl. 439-246.000.

Fisher, Robert L., Jr., to AMP Incorporated. Triaxial to coaxial connector assembly. 4,708,666, 11-24-87, Cl. 439-580.000.

Fisher, Robin D. Helicoidal propeller pitch control mechanism. 4,704,067, 11-3-87, Cl. 416-167.000.

Fisher, Samuel H. Device for holding a door open with permanent magnet actuated ball valve affecting hydraulic cylinder. 4,670,939, 6-9-87, Cl. 16-297.000.

Fisher Scientific Company: *See—*
Kelln, Norman G., 4,680,164, Cl. 422-72.000.
Mody, Dinesh I.; Rasmussen, James E.; and Ryaboy, Mikhail Y., 4,640,821, Cl. 422-81.000.
Nelson, Larry A.; and Mace, William A., 4,670,219, Cl. 422-63.000.
Nelson, Larry A., 4,708,886, Cl. 422-72.000.
Wong, Show-Chu; Deol, Harbans S.; and Harz, Debra L., 4,698,312, Cl. 436-10.000.

Fisher Scientific Group, Inc.: *See—*
Spani, Wayne M., 4,703,314, Cl. 340-619.000.

Fisher, Stephen A.: *See—*
Skarvan, Charles A.; and Fisher, Stephen A., 4,693,077, Cl. 60-39.282.

Fisher, Steven D.: *See—*
Allen, James C.; Bartlett, Wendy B.; Johnson, Hoke S.; Fisher, Steven D.; Larson, Richard O.; and Peck, John C., 4,663,706, Cl. 364-200.000.

Allen, James C.; Bartlett, Wendy B.; Johnson, Hoke S., III; Fisher, Steven D.; Larson, Richard O.; and Peck, John C., 4,667,287, Cl. 364-200.000.

Humphrey, Richard A.; Fisher, Steven D.; Wierenga, Steven W.; and Sjostedt, Jon, 4,672,609, Cl. 371-21.000.

Fisher, Susan S.; and Fisher, Jared D. "Waterbed Convertible Cap". 4,675,928, 6-30-87, Cl. 5-400.000.

Fisher, Theodore F.; Hanson, Thomas C.; and Weber, Joseph A., to Union Carbide Corporation. Process to produce helium gas. 4,701,200, 10-20-87, Cl. 62-27.000.

Fisher, Theodore F.: *See—*

Hanson, Thomas C.; Fisher, Theodore F.; Weber, Joseph A.; and Pahade, Ravindra F., 4,701,201, Cl. 62-27.000.

Hanson, Thomas C.; Fisher, Theodore F.; and Weber, Joseph A., 4,710,212, Cl. 62-23.000.

Fisher, Thomas M.; and Gehalo, David J., to Reliance Comm/Tec Corporation. Cross connect frame for digital signals. 4,670,626, 6-2-87, Cl. 178-1.000.

Fisher, Tomas G.: *See—*

Howell, Robert G.; and Fisher, Tomas G., 4,636,721, Cl. 324-133.000.

Fisher Westmoreland (UK) Limited: *See—*

Fisher, Brian, and Westmoreland, Raymond R., 4,633,968, Cl. 180-275.000.

Fisher, William B.: *See—*

James, Leonard E.; Fisher, William B.; Crescentini, Lamberto; and Browning, Joseph M., 4,692,321, Cl. 423-404.000.

Fisherman, Carl; and Beare, Eric, to Photo Audio Consumer Electronics Marketing Corporation. Integral book cover and reading light. 4,680,681, 7-14-87, Cl. 362-98.000.

Fisherwell Limited: *See—*

Mather, Graham W.; Warwick, Graham R.; and Bazeley, Graham A., 4,714,[illegible], Cl. 280-646.000.

Fishgal, Semyon. Contaminants breaking and separation. 4,640,466, 2-3-87, Cl. 241-40.000.

Fishing Designs, Inc.: *See—*

Brackett, John E.; and Dahlberg, Larry J., 4,697,376, Cl. 43-23.000.

Fishkind, Gregory A.: *See—*

Maroney, Ralf P.; Fishkind, Gregory A.; and Schneider, Frederick, 4,638,399, Cl. 361-220.000.

Fishman, Aaron H.; and Bottitta, Joseph, to API Corporation. Stackable integrally molded receptacle. 4,660,725, 4-28-87, Cl. 206-509.000.

Fishman, David H.: *See—*

Mtangi, Stanlake A.; and Fishman, David H., 4,647,324, Cl. 156-62.200.

Fishman, Henry. Allergy testing method and apparatus. 4,711,247, 12-8-87, Cl. 128-743.000.

Fishman, Herbert, and Rogers, Alvin J., to Systems Engineering & Manufacturing Corp. Printed circuit board holder. 4,678,169, 7-7-87, Cl. 269-46.000.

Fishman, Steven, to Colgate-Palmolive Company. Dispenser for retaining toothbrush and floss. 4,673,106, 6-16-87, Cl. 222-80.000.

Fishwick, Alan J.; Jackson, Robert K.; and Wilson, Anthony J., to Metal Box p.l.c. Process apparatus. 4,654,003, 3-31-87, Cl. 432-35.000.

Fishwick, Brian R.: *See—*

Baird, David B.; Baker, Ronald; Fishwick, Brian R.; and McClelland, Robert D., 4,658,040, Cl. 549-68.000.

Fisk, Allan T.: *See—*

Brunsing, Thomas P.; Fisk, Allan T.; Spector, Joseph; and Tallone, Thomas, 4,671,367, Cl. 175-58.000.

Douglas, Stephen B.; and Fisk, Allan T., 4,662,656, Cl. 285-39.000.

Fisk, Thomas E.; and Hoffman, Dwight K., to Dow Chemical Company, The. Addition polymerizable adducts for nonaqueous dispersions. 4,640,935, 2-3-87, Cl. 521-137.000.

Fisk, Thomas E., to Dow Chemical Company, The. Ethylenically unsaturated N-(halosulfonyl) carbamyl monomers. 4,663,475, 5-5-87, Cl. 560-137.000.

Fisk, Thomas E., and Tucker, Christopher J., to Dow Chemical Company, The. N-(hydrophobe aromatic)pyridinium compounds. 4,672,118, 6-9-87, Cl. 546-13.000.

Fiskars Electronics Corporation: *See—*

Rhyne, Earl C.; and Illingworth, Lewis, 4,636,927, Cl. 363-15.000.

Fiskars Oy AB: *See—*

Linden, Olavi, 4,715,122, Cl. 30-254.000.

Fisons plc: *See—*

Baxter, Andrew J. G.; Dixon, John; Gould, Kenneth J.; and Tinker, Alan C., 4,686,217, Cl. 514-210.000.

Corbett, John S., 4,702,400, Cl. 222-402.200.

Dicker, Ian D.; and Suschitzky, John L., 4,698,345, Cl. 514-29 .000.

Gould, Kenneth J.; and Suschitzky, John L., 4,670,452, Cl. 514-382.000.

Ince, Francis; and Tinker, Alan C., 4,657,929, Cl. 514-524.000.

Olejnik, Orest, 4,645,768, Cl. 514-649.000.

Thomson, James, 4,657,696, Cl. 252-301.170.

Wong, Jeffrey T., 4,650,786, Cl. 514-6.000.

Wong, Jeffrey T., 4,710,488, Cl. 514-6.000.

Fister, Julius C.; and Breedis, John F., to Olin Corporation. Electrical component forming process. 4,649,083, 3-10-87, Cl. 428-469.000.

Fister, Julius C.; and Breedis, John F., to Olin Corporation. Thermosonic palladium lead wire bonding. 4,674,671, 6-23-87, Cl. 228-111.000.

Fister, Julius C., Jr.: *See—*

Woodard, Kenneth E., Jr.; Dean, Robert A.; Fair, David L.; and Fister, Julius C., Jr., 4,695,359, Cl. 204-255.000.

Fister, Lee H., Jr. Seating unit and method of construction. 4,668,011, 5-26-87, Cl. 297-218.000.

Fister S.p.A.: *See—*

Dal Palu, Attilio, 4,675,934, Cl. 15-250.420.

Fistner, David C., Sr.: *See—*

McGarry, Phillip E.; Herman, David E.; Treskot, Robert A.; and Fistner, David C., Sr., 4,650,567, Cl. 209-166.000.

FISW Forschungs und Ingenieurgesellschaft fur Steuerungstechnik der Werkzeugmaschinen und Fertigungseinrichtungen GmbH: *See—*

Wurst, Karl-Heinz, 4,651,591, Cl. 74-675.000.

Fitch, Edward W.: *See—*

Bentley, Alan M.; Fitch, Edward W.; Freeburger, John W.; and Goulet, Gary P., 4,654,852, Cl. 371-29.000.

Fitch, Osa E.: *See—*

Rose, Millard F.; and Fitch, Osa E., 4,656,918, Cl. 89-8.000.

Fite, F. Bartow: *See—*

Holcomb, David A.; and Tryon, James A., 4,697,749, Cl. 241-169.000.

Fitelson, Michael M.; Wanuga, Stephen; and Williams, Jack B., to General Electric Company. Monolithically integrated electro-optical multiplexer/demultiplexer. 4,703,471, 10-27-87, Cl. 370-1.000.

Fithian, Luke E.; and Cesare, Frank C., to Uniroyal Chemical Company, Inc. Sprayable and foamable insulating composition. 4,657,938, 4-14-87, Cl. 521-96.000.

Fitness Quest, Inc.: *See—*

Stropkay, Edward J., 4,659,077, Cl. 272-97.000.

Fitoussi, Fred: *See—*

Torck, Bernard; Amigues, Pierre; Glaize, Yves; Grangette, Henri; Laurent, Jean, and Fitoussi, Fred, 4,647,703, Cl. 568-697.000.

Fitt, Peter W., to I C Gas International Limited. Absorption refrigeration cycle. 4,679,409, 7-14-87, Cl. 62-476.000.

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Fittler, Zsuzsa: *See—*

Bajusz, Sandor; Szell nee Hasenohrl, Erzsbet; Bagdy, Daniel; Barabas, Eva; Dioszegi, Mariann; Fittler, Zsuzsa; Jozsa, Ferencz; Horvath, Gyula; and Tomori nee Jozst, Eva, 4,703,036, Cl. 514-18.000.

Fitts, Bruce B.: *See—*

Landi, Vincent R.; and Fitts, Bruce B., 4,659,758, Cl. 524-35.000.

Fitts, Frederick L.: *See—*

Johnson, Myron C.; and Fitts, Frederick L., 4,670,635, Cl. 219-69.00E.

Fitts, Renee A.; Hsiung, Nancy; and Hamer, Dean H., to Integrated Genetics, Inc. Vector encoding hepatitis B surface antigen. 4,696,898, 9-29-87, Cl. 435-68.000.

Fitts, Renee A.: *See—*

Taber, Robert L.; and Fitts, Renee A., 4,689,295, Cl. 435-6.000.

Fitts, Robert W., to RCA Corporation. Header assembly for an intensified charge coupled image sensor. 4,682,021, 7-21-87, Cl. 250-213.0VT.

Fity, Christian, and Andre, Jean-Luc, to Lohr S.A. Car-carrier with each wheel-train equipped with its own carrying cross-structures. 4,668,142, 5-26-87, Cl. 410-26.000.

Fity, Christian: *See—*

Andre, Jean-Luc; and Fity, Christian, 4,682,922, Cl. 410-30.000.

Fitz, Edward J.; and Pesapane, Dominic, to Casco Products Corporation. Cigar lighter incorporating glow ring. 4,713,733, 12-15-87, Cl. 362-80.000.

FitzGerald Corporation: *See—*

FitzGerald, Joseph M.; and FitzGerald, James P., 4,640,541, Cl. 296-1.00S.

Fitzgerald, Edward P.: *See—*

Tchorbajian, Nichan; and Fitzgerald, Edward P., 4,689,675, Cl. 358-140.000.

FitzGerald, James P.: *See—*

FitzGerald, Joseph M.; and FitzGerald, James P., 4,640,541, Cl. 296-1.00S.

Fitzgerald, Joseph F.: *See—*

Sawyer, Philip N.; and Fitzgerald, Joseph F., 4,684,364, Cl. 604-123.000.

FitzGerald, Joseph M.; and FitzGerald, James P., to FitzGerald Corporation. Under-trailer air deflector. 4,640,541, 2-3-87, Cl. 296-1.00S.

Fitzgerald, Mark: *See—*

Heitzmann, Richard E.; Fitzgerald, Mark; and Sawyer, James L., 4,640,715, Cl. 106-85.000.

Heitzmann, Richard F.; Fitzgerald, Mark; and Sawyer, James L., 4,642,137, Cl. 106-85.000.

Fitzgerald, Maurice E.; Braunstein, David M.; Alkaitis, Saulius A.; and Pinsky, Naum, to Ensci, Inc. Battery element and battery incorporating polar polymer system. 4,708,918, 11-24-87, Cl. 429-210.000.

Fitzgerald, Robert J.: *See—*

Grosso, Vincent A.; Fitzgerald, Robert J.; and DeFonzo, Richard J., 4,676,456, Cl. 244-3.210.

FitzGerald, Ryder O.: *See—*

Penniman, John G.; and FitzGerald, Ryder O., 4,661,225, Cl. 204-183.300.

FitzGerald, Tanya E.: *See—*

Cates, Barbara J., and FitzGerald, Tanya E., 4,710,200, Cl. 8-574.000.

Fitzgerald, Thomas J.: *See—*

Rudy, Richard M., and Fitzgerald, Thomas J., 4,678,403, Cl. 417-12.000.

Fitzgerald, Thomas W.: *See—*

Barry, Vincent J.; Boucher-Puputti, Brenda A.; Fitzgerald, Thomas W.; and Bawolek, Edward J., 4,659,427, Cl. 156-643.000.

Fitzgerald, William V.; Fernsler, Ronald E.; and Nortrup, Kevin E., to RCA Corporation. Video apparatus for generating a conductively isolated control signal. 4,680,511, 7-14-87, Cl. 315-411.000.

Fitzgibbon, James, to Zenith Electronics Corporation. Interactive CRT with touch level set. 4,710,759, 12-1-87, Cl. 340-712.000.

Fitzgibbon, James J.: *See—*

Brenner, Michael C.; and Fitzgibbon, James J., 4,644,100, Cl. 178-18.000.

Fitzgibbon, Jeremiah J., to Standard Oil Proppants Company, L.P. Use of uncalcined/partially calcined ingredients in the manufacture of sintered pellets useful for gas and oil well proppants. 4,658,899, 4-21-87, Cl. 166-280.000.

Fitzgibbons, Michael R., to Ferranti Subsea Systems, Ltd. Clamp assembly. 4,648,748, 3-10-87, Cl. 405-195.000.

Fitzgibbons, Michael R., to Ferranti Subsea Systems, Inc. Hydraulic coupler with floating metal seal. 4,709,726, 12-1-87, Cl. 137-614.040.

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Fitzig, Simon; and Marshak, Barry, to Ramot University Authority for Applied Research & Industrial Development Ltd. Chair system particularly useful for a dental office. 4,699,423, 10-13-87, Cl. 297-245.000.

Fitzig, Simon; and Weiss, Ervin. Handheld grinding device for crown preparation. 4,701,128, 10-20-87, Cl. 433-116.000.

Fitzmayer, Louis H.; Staats, James E.; and Miller, Matthew S., to General Electric Company. Rotating slot antenna arrangement for microwave oven. 4,642,435, 2-10-87, Cl. 219-10.55F.

Fitzmayer, Louis H.: *See—*

Staats, James E.; and Fitzmayer, Louis H., 4,695,693, Cl. 219-10.55F.

Fitzmorris, Tyce; Espenhahn, Eric; and Pereira, Jamie, to Vistech Corporation. Bottle inspection system. 4,691,231, 9-1-87, Cl. 358-106.000.

Fitzpatrick, Brian J., to North American Philips Corporation. Magnetic application of light-absorbing particles to a lenticular screen. 4,692,359, 9-8-87, Cl. 427-45.100.

Fitzpatrick, Brian J., to North American Philips Corporation. Selective application of light-absorbing particles to a lenticular screen. 4,701,019, 10-20-87, Cl. 350-127.000.

Fitzpatrick, Denis: *See—*

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Fitzpatrick, Gary O., to Rasor Associates, Inc. Thermionic converter. 4,667,126, 5-19-87, Cl. 310-306.000.

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Geannopoulos, George; Tsui, Cyrus; Fitzpatrick, Mark; and Chan, Andy, 4,638,189, Cl. 307-465.000.

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Fitzpatrick, Nigel P.; and Lee, Richard E. G., to Alcan International Limited. Decoating of aluminum scrap. 4,654,088, 3-31-87, Cl. 134-18.000.

Fitzpatrick, Nigel P.: *See—*

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Fitzpatrick, Paul, to Ex-Cell-O Corporation. Fixture for honing thin wall gear parts. 4,680,894, 7-21-87, Cl. 51-50.00R.

Fitzpatrick, Paul, to Ex-Cell-O Corporation. Apparatus and method for roll sizing diameters. 4,683,743, 8-4-87, Cl. 72-88.000.

Fitzpatrick, Roger S., to GEC Avionics Limited. Aerodynamic radar pod with external inflatable portion. 4,635,067, 1-6-87, Cl. 343-705.000.

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Fitzwater, Edwin, to Regina Company Inc., The. Cartridge and docking port for a cleaning device. 4,676,287, 6-30-87, Cl. 141-285.000.

Fiumi, Fabrizio. Display of subtitles during the screening of a motion picture. 4,673,266, 6-16-87, Cl. 352-90.000.

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Cazaux, Joel, 4,644,997, Cl. 164-416.000.

Chielens, Alain; Durinck, Rene; and Werquin, Pierre, 4,635,704, Cl. 164-452.000.

Henin, Jean-Pierre; and Niel, Philippe, 4,645,452, Cl. 432-58.000.

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Petracchi, Patrice, 4,643,339, Cl. 222-607.000.

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Fix, Robert L., to Kidde, Inc. Method of and apparatus for removal installation of outrigger box on cranes. 4,664,411, 5-12-87, 280-766.100.

Fixel, Irving E. Antirotational hip screw. 4,657,001, 4-14-87, Cl. 92.0YS.

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Snyder, Bobbie L., 4,657,302, Cl. 297-232.000.

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Savitsky, Evgeny M.; Goikhman, Mikhail S.; Khudyk, Petr Chepkasov, Valery V.; Sulyagin, Valentin V.; Polyakova, V toria P.; Shatinsky, Viktor F.; Gorina, Nelli B.; and Rudkovs Evgeny M., 4,654,237, Cl. 427-431.000.

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Kreitzer, Melvyn H.; and Betensky, Ellis I., 4,655,562, 350-538.000.

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Flach, Werner, to Siemens Aktiengesellschaft. Data network inter module with circuitry for disconnecting a module that has lost sup voltage. 4,680,431, 7-14-87, Cl. 178-69.00R.

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Flagan, Richard C.; and Alam, Mohammed K., to California Institut Technology. Reactor for producing large particles of materials f gases. 4,642,227, 2-10-87, Cl. 423-349.000.

Flagan, Richard C.: *See—*

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Flagg, Elgin E.; and Bobo, Melvin, to General Electric Comp Airstream eductor. 4,644,806, 2-24-87, Cl. 73-863.580.

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Whiddon, Clifford R.; Flaherty, Daniel R.; and Turowski, L rence E., 4,657,066, Cl. 164-476.000.

Flaherty, John J., Jr. Ring-a-ding hook game. 4,635,942, 1-13-87, 273-332.000.

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Flaherty, Robert, to Westinghouse Electric Corp. Flexural pivot device and method for assembling same. 4,655,629, 4-7-87, Cl. 403-291.000.

Flaig, Hans: *See*—
- Allgaier, Jurgen; Ganter, Wolfgang; and Flaig, Hans, 4,645,357, Cl. 368-187.000.

Flaig, Hubert: *See*—
- Scholz, Wolfgang; Gzik, Herbert; Scholz, Hans J.; and Flaig, Hubert, 4,645,901, Cl. 219-125.100.

Flaig, John D., to Outboard Marine Corporation. Reed valve assembly. 4,633,825, 1-6-87, Cl. 123-73.00V.

Flaig, John D.: *See*—
- Dunham, William D.; Flaig, John D.; Petersen, H. Norman; and Young, Robert F., 4,708,673, Cl. 440-77.000.

Flaig, Oskar: *See*—
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Flaig, Ulrich; and Sieber, Albrecht, to Robert Bosch GmbH. Method for influencing the metering of fuel to an internal combustion engine. 4,696,276, 9-29-87, Cl. 123-478.000.

Flaitz, Philip L.: *See*—
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Flakas, Gerald K.: *See*—
- Pajerski, Michael J.; Gray, Steven J.; Flakas, Gerald K.; and Cotic, Dennis J., 4,697,661, Cl. 180-6.500.

Flakt AB: *See*—
- Bjorkland, Bjorn, 4,674,718, Cl. 246-428.000.
- Eriksson, Mats, 4,711,162, Cl. 98-38.300.
- Fellers, Christer; Htun, Myat; and Hansson, Torbjorn, 4,680,873, Cl. 34-116.000.
- Goransson, Rolf, 4,671,808, Cl. 55-112.000.
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- Gustafsson, Alf G., 4,704,672, Cl. 363-86.000.
- Gustavsson, Curt, 4,666,475, Cl. 55-148.000.
- Gustavsson, Lennart, 4,712,277, Cl. 19-296.000.
- Johansson, Lars-Erik, 4,690,333, Cl. 239-434.500.
- Larsson, Bertil, 4,683,699, Cl. 52-775.000.
- Peltola, Heikki, 4,698,077, Cl. 55-204.000.
- Wilhelmsson, Gunnar, 4,666,402, Cl. 432-24.000.
- Ziemer, Wolf; Neubert, Fritz; and Holle, Wilhelm, 4,710,308, Cl. 55-355.000.

Flam, Eric: *See*—
- Allen, Douglas, Jr.; and Flam, Eric, 4,650,817, Cl. 523-105.000.

Flamand, Charles: *See*—
- Alloin, Michel; and Flamand, Charles, 4,647,712, Cl. 174-15.0WF.

Flamand, Jean: *See*—
- Laude, Jean-Pierre; Flamand, Jean; and Gautherin, Jean-Claude, 4,675,860, Cl. 370-3.000.

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- Lanius, Charles A., 4,651,458, Cl. 43-3.000.

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- Schultz, William K., 4,658,802, Cl. 126-271.20A.

Flament, Gerard; and LeCalvez, Jean P., to Charbonnages de France. Device for supplying a powdery product in gravimetrically metered amounts to a pneumatic line. 4,669,921, 6-2-87, Cl. 406-14.000.

Flamholz, Alexander L., to International Business Machines Corporation. Inspection system for pellicalized reticles. 4,637,714, 1-20-87, Cl. 355-77.000.

Flamholz, Alexander L., to International Business Machines Corporation. Defect detection in films on ceramic substrates. 4,679,938, 7-14-87, Cl. 356-237.000.

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- Zag, Heinz; Steiner, Karl; Mullner, Josef; and Flamig, Hans, 4,651,628, Cl. 92-165.0PR.

Flamm, Katherine K.; Gilley, J. Kyle; Geary, David F.; and Schinner, Edward N., to Baltimore Aircoil Company, Inc. Compression sealing of tubes within shell and tube heat exchanger. 4,691,769, 9-8-87, Cl. 165-158.000.

Flamm, Katherine K.: *See*—
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Flamm, Peter M., to Etutsche ITT Industries GmbH. Flesh tone correction circuit. 4,667,223, 5-19-87, Cl. 358-28.000.

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Flanagan, James L., to American Telephone and Telegraph Company. Electroacoustic device with broad frequency range directional response. 4,653,606, 3-31-87, Cl. 181-145.000.

Flanagan, John D.: *See*—
- Ducatman, Fred P.; and Flanagan, John D., 4,686,212, Cl. 514-161.000.

Flanagan, Peter F.; and Lizza, Nicholas L., to Raytheon Company. Noiseless solid conductor flexible cable. 4,664,459, 5-12-87, Cl. 339-28.000.

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- Howarth, Thomas R.; Flanagan, Peter F.; Harrold, William J.; and Rodberg, Kenneth, 4,703,464, Cl. 367-156.000.

Flanagan, Robert M., to Amerace Corporation. Self cleaning pavement marker. 4,659,248, 4-21-87, Cl. 404-10.000.

Flanagan, Thomas P., to National Starch and Chemical Corporation. Hot melt adhesive composition for book lining. 4,660,858, 4-28-87, Cl. 281-21.00R.

Flanagan, Thomas P.: *See*—
- Beh-Forrest, Eric; and Flanagan, Thomas P., 4,712,808, Cl. 281-15.00R.

Flanagin, Stephen D.; and Gord, John C., to Telex Computer Products, Inc. Adaptive delta modulation codec. 4,646,322, 2-24-87, Cl. 375-27.000.

Flanagin, Stephen D.; Bubb, Howard G.; and Scantlin, John R., to Telex Computer Products, Inc. PBX telephone system I/O interface. 4,674,082, 6-16-87, Cl. 370-60.000.

Flandera, Mary A.: *See*—
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Flanders Filters, Inc.: *See*—
- Allan, Thomas T.; and Cramer, Robert V., 4,685,944, Cl. 55-491.000.
- Cadwell, George H., Jr.; and Pittman, Clarence B., 4,671,811, Cl. 55-355.000.
- Cadwell, George H., Jr.; Pittman, Clarence B.; and Bowers, Cecil W., 4,678,487, Cl. 55-385.00A.
- Pittman, Clarence B.; and Cadwell, George H., Jr., 4,639,261, Cl. 55-502.000.

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- Flanders, Robert G.; and Flanders, Marguerita E., 4,690,644, Cl. 434-158.000.

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- Ciuciu, Eric; Imbert, Jean; and Flandrois, Jacques, 4,689,791, Cl. 371-27.000.

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- Dalziel, Warren L.; Flanigan, Charles; Daniels, Donald V.; Lee, John S.; and Johnston, James, 4,636,902, Cl. 360-128.000.

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- Orlowski, Ronald C.; Seyler, Jay K.; Colescott, Robert L.; Stahl, Glenn L.; Enkoji, Takashi; Geever, James E.; and Flanigan, Everett, 4,659,804, Cl. 530-307.000.

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- Sampson, Robert; and Flanigan, Sean, 4,702,049, Cl. 52-200.000.
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Flanigen, Edith M.; Lok, Brent M. T.; Patton, Robert L.; and Wilson, Stephen T., to Union Carbide Corporation. Molecular sieve compositions with aluminum, phosphorus and at least two other elements. 4,686,093, 8-11-87, Cl. 423-306.000.

Flanigen, Edith M.: *See*—
- Lok, Brent M.; Vail, Lawrence D.; and Flanigen, Edith M., 4,683,217, Cl. 502-214.000.
- Lok, Brent M. T.; Marcus, Bonita K.; and Flanigen, Edith M., 4,684,617, Cl. 502-214.000.
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- Wilson, Stephen T.; Woodard, Naomi A.; and Flanigen, Edith M., 4,690,808, Cl. 423-305.000.

Flannagan, Stephen T.; and Reed, Paul A., to Motorola, Inc. Summation of address transition signals. 4,636,991, 1-13-87, Cl. 365-230.000.

Flannagan, Stephen T., to Motorola, Inc. Tri-state differential amplifier. 4,644,196, 2-17-87, Cl. 307-530.000.

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Flannagan, Stephen T.: *See*—
- Reed, Paul A.; and Flannagan, Stephen T., 4,658,381, Cl. 365-203.000.

Flannaghan, Barry A., to Independent Broadcasting Authority. Apparatus for processing a television signal including a movement detector. 4,703,358, 10-27-87, Cl. 358-167.000.

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- Drury, Gordon M.; Mason, Arthur G.; Lodge, Nicolas K.; and Flannaghan, Barry A., 4,636,851, Cl. 358-119.000.

Flasck, James: *See*—
- Eichen, Erwin; and Flasck, James, 4,708,653, Cl. 433-165.000.
- Ovshinsky, Stanford R.; and Flasck, James, 4,663,183, Cl. 427-39.000.

Flasck, James D.: *See*—
- Eichen, Erwin; and Flasck, James D., 4,716,083, Cl. 428-457.000.
- Keem, John E.; and Flasck, James D., 4,643,951, Cl. 428-469.000.

Ovshinsky, Stanford R.; Keem, John E.; Flasck, James D.; Bergeron, Richard C.; and Tyler, John E., 4,645,715, Cl. 428-469.000.

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Flaten, James F., to Sunnen Products Company. Boring machine for cam shaft bearings. 4,657,446, 4-14-87, Cl. 408-87.000.

Flatley, Doris W.; and Hsu, Sheng T., to RCA Corporation. Profile control of boron implant. 4,637,836, 1-20-87, Cl. 148-1.500.

Flatley, Doris W.; and Ipri, Alfred C., to RCA Corporation. Method of forming a semiconductor structure. 4,658,495, 4-21-87, Cl. 29-571.000.

Flatley, Doris W.: *See—*

Hsu, Sheng T.; Flatley, Doris W.; and Johansson, Ronald J., 4,662,064, Cl. 29-591.000.

Hsu, Sheng T.; and Flatley, Doris W., 4,716,451, Cl. 357-42.000.

Flatman, Richard J.: *See—*

Wright, William B.; and Flatman, Richard J., 4,683,716, Cl. 60-226.100.

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Flavell, John; Nash, Michael A.; and Tubb, Anthony B., to Courtaulds Clothing Limited. Laying-up workpieces of flexible sheet material. 4,708,334, 11-24-87, Cl. 271-182.000.

Flavigny, Jean-Pierre, to Facom. Angle iron for supporting plates, panels or other objects and cabinet formed using angle irons of this type. 4,645,276, 2-24-87, Cl. 312-257.0SK.

Flax, Louis: *See—*

Davis, Lincoln R.; and Flax, Louis, 4,700,986, Cl. 297-157.000.

Fleck, Harald; Hutter, Heinrich; and Jager, Heimo, to U.S. Philips Corporation. Tape cassette apparatus with helical spring cassette holder drive. 4,654,730, 3-31-87, Cl. 360-96.500.

Fleck, Karl: *See—*

Konig, Gerhard; Fleck, Karl; Kess, Herbert; and Weigand, Artur, 4,701,974, Cl. 15-323.000.

Fleck, Robert S.; and Kreitzberg, John S., to ESCO Corporation. Excavating shovel. 4,633,601, 1-6-87, Cl. 37-118.00R.

Fleckenstein, Phillip P.; and Marsh, Norman F., to Berwind Corporation. Rotating paddle bin level indicator. 4,695,685, 9-22-87, Cl. 200-61.210.

Flecker, Peter: *See—*

Thies, Peter W.; David, Samuel; Kuehl, Ulrich; Buschmann, Gerd; and Flecker, Peter, 4,714,709, Cl. 514-414.000.

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Flecknoe-Brown, Anthony E., to A.A.R.C. (Management) Pty. Limited. Drainage tube. 4,639,165, 1-27-87, Cl. 405-45.000.

Fleenor, Richard P.: *See—*

Sheehan, Neil J.; Oppenlander, Jon E.; and Fleenor, Richard P., 4,679,446, Cl. 73-864.130.

Fleer, Ernst O., to Siemens Aktiengesellschaft. Coupling device for dental handpieces. 4,655,709, 4-7-87, Cl. 433-29.000.

Fleer, Ernst-Otto, to Siemens Aktiengesellschaft. Dental handpiece arrangement with an illumination device. 4,669,982, 6-2-87, Cl. 433-29.000.

Fleet Engineers Inc.: *See—*

Hawes, Timothy R.; Antekeier, Steven A.; Cryderman, Glenn R.; Munger, David I.; Gould, Leonard A.; and Eklund, Louis E., Jr., 4,706,980, Cl. 280-154.000.

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Fleetwood Systems, Inc.: *See—*

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Mojden, Wallace W.; and Mojden, Andrew E., 4,676,708, Cl. 414-33.000.

Mojden, Wallace W.; and Darr, Robert E., 4,681,507, Cl. 414-786.000.

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Flegler, Karl-Heinz, to Macherey-Nagel & Co.-Chemikalienhandel. Use of benzimidazole derivatives for the detection of blood and other peroxidatically active substances in body fluids and excretion products. 4,670,402, 6-2-87, Cl. 436-66.000.

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Gazit, Samuel; and Fleischer, Cathy A., 4,634,631, Cl. 428-421.000.

Fleischer, Donald W., to Veeder Industries Inc. Electronic hub odometer. 4,697,278, 9-29-87, Cl. 377-24.000.

Fleischer, Glen R.: *See—*

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Fleischer, Kenneth H., to International Rectifier Corporation. Phase-controlled power switching circuit. 4,703,197, 10-27-87, Cl. 307-646.000.

Fleischer, Klaus; Gohler, Peter; Mangler, Rolf; Reuther, Christian; Schingnitz, Manfred; Berger, Friedrich; Gudymov, Ernest; Semenov, Vladimir; Fedotov, Vasilij; and Rodionov, Boris, to Brennstoffinstitut Freiberg. Pulverized-coal burner. 4,704,971, 11-10-87, Cl. 110-264.000.

Fleischer, Thomas B., to Huyck Corporation. Papermaker's fabric with yarns having multiple parallel monofilament strands. 4,636,426, 1-13-87, Cl. 428-224.000.

Fleischhauer, Eugene. Vacuum cleaner attachments. 4,653,137, 3-31-87, Cl. 15-374.000.

Fleischhauer, Eugene T. Vacuum cleaner attachments. 4,638,527, 1-27-87, Cl. 15-371.000.

Fleischmann, Dale. Pump heating system. 4,706,883, 11-17-87, Cl. 237-2.00B.

Fleisher, Martin; Bradlow, H. Leon; and Schwartz, Morton K., to Memorial Hospital for Cancer & Allied Disease; and Rockefeller University, The. Breast cyst fluid screening method for cancer risk assessment. 4,695,471, 9-22-87, Cl. 436-64.000.

Fleisher, Nathaniel; and Spector, George. Cigar holder. 4,711,254, 12-8-87, Cl. 131-189.000.

Fleisher, Richard B.; and Rubin, Bruce A., to Eastman Kodak Company. Modifying color digital images. 4,639,769, 1-27-87, Cl. 358-27.000.

Fleishman, Herman B.; Fleishman, Janis L., administratrix; and Lightbody, David B. Miniature electric track and train. 4,665,833, 5-19-87, Cl. 104-301.000.

Fleishman, Janis L., administratrix: *See—*

Fleishman, Herman B.; Fleishman, Janis L., administratrix; and Lightbody, David B., 4,665,833, Cl. 104-301.000.

Fleissner, Gerold, to Vepa Aktiengesellschaft. Apparatus for the continuous treatment of endless textile material. 4,645,109, 2-24-87, Cl. 226-42.000.

Fleissner, Gerold, to Vepa Aktiengesellschaft. Apparatus for applying a liquid film of large width to a length of material. 4,656,845, 4-14-87, Cl. 68-205.00R.

Fleissner, Gerold, to Fleissner GmbH & Co., Maschinenfabrik. Process for rendering wool sliver shrinkproof, and apparatus for performing the process. 4,657,555, 4-14-87, Cl. 8-128.00R.

Fleissner, Gerold, to Vepa Aktiengesellschaft. Drying tower. 4,658,51 4-21-87, Cl. 34-155.000.

Fleissner, Gerold, to Vepa Aktiengesellschaft. Method for wrapping a bale or the like. 4,665,815, 5-19-87, Cl. 100-2.000.

Fleissner GmbH & Co., Maschinenfabrik: *See—*

Fleissner, Gerold, 4,657,555, Cl. 8-128.00R.

Fleissner, Heinz, to Vepa Aktiengesellschaft. Heat treatment tunnel. 4,638,572, 1-27-87, Cl. 34-41.000.

Fleissner, Heinz, to Vepa Aktiengesellschaft. Heat treatment tunnel. 4,674,197, 6-23-87, Cl. 34-68.000.

Fleiter, Lothar: *See—*

Stahl, Hans G.; Hohlein, Peter; Traenckner, Hans-Joachim; Fleiter, Lothar; and Schwindt, Jurgen, 4,684,691, Cl. 524-534.000.

Fleitz, George D.: *See—*

Durston, Thomas W.; Fleitz, George D.; Coffelt, Steven R.; Eckman, James D.; Wong, Wayne K.; and Chavannes, Theodore E. 4,707,848, Cl. 379-1.000.

Fleming, Bruce A., to Amoco Corporation. Multizone naphtha reforming process. 4,663,020, 5-5-87, Cl. 208-65.000.

Fleming, Bruce A.: *See—*

Unmuth, Eugene E.; and Fleming, Bruce A., 4,664,781, Cl. 208-138.000.

Unmuth, Eugene E.; and Fleming, Bruce A., 4,703,031, Cl. 502-339.000.

Fleming, Chet, to Dis Corporation, The. Device for perfusing an animal head. 4,666,425, 5-19-87, Cl. 604-4.000.

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Sweeny, Mark F.; Gershenson, Meir; Fleming, David L.; and Barta, Robert E., 4,660,061, Cl. 357-5.000.

Fleming, Dennis J.: *See—*

Boerema, Edward T.; Flowerday, Carl W.; and Fleming, Dennis J. 4,670,819, Cl. 362-80.000.

Boerema, Edward T.; Suman, Michael J.; and Fleming, Dennis J. 4,690,450, Cl. 296-97.00K.

Fleming, Donald K., to Institute of Gas Technology. Non-catalytic porous-phase combustor. 4,643,667, 2-17-87, Cl. 431-7.000.

Fleming, Donald K., to Institute of Gas Technology. Ammonia utilization process. 4,693,883, 9-15-87, Cl. 423-648.00R.

Fleming, Graham C., to Atlantic Richfield Company. Enhanced oil recovery process employing carbon dioxide. 4,683,948, 8-4-87, Cl. 166-263.000.

Fleming, Graham C., to Atlantic Richfield Company. Enhanced oil recovery process utilizing in situ steam generation. 4,699,213, 10-13-87, Cl. 166-260.000.

Fleming, Henry C., III: *See—*

Matza, Stephen D.; Ellington, William E.; and Fleming, Henry C. III, 4,658,914, Cl. 175-40.000.

Fleming, Henry P.: *See—*

Daeschel, Mark A.; McFeeters, Roger F.; Fleming, Henry P. Klaenhammer, Todd R.; and Sanozky, Rosemary B., 4,666,84 Cl. 435-253.000.

Fleming, Hubert L.; Edd, Jon F.; Pearson, Alan; Chou, Chin-Liang Kono, Hisashi O.; and Huang, Ching-Chung, to Aluminum Company of America. Fluidized bed granulation of rehydratable alumina 4,704,378, 11-3-87, Cl. 502-355.000.

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DoMinh, Thap; Fleming, James C.; and Lindstrom, Michael J. 4,684,599, Cl. 430-270.000.

Fleming, James D., to Central States Products Company. Diskette folder with strap fastener. 4,655,388, 4-7-87, Cl. 229-45.00R.

Fleming, James W.: *See*—

Cohen, Leonard G.; and Fleming, James W., 4,699,464, Cl. 350-96.340.

Fleming, John S., to Kent Heating Limited. Heating. 4,667,607, 5-26-87, Cl. 110-172.000.

Fleming, Joseph A.; and Haider, Stephen J. Thermally actuated seat belt fastener. 4,715,096, 12-29-87, Cl. 24-602.000.

Fleming, Paul D.; and O'Day, David L., to W&F Manufacturing, Inc. Door latch and deadbolt assembly. 4,671,089, 6-9-87, Cl. 70-452.000.

Fleming, Philip F., to Gehl Company. Cutting knife bevel extender for forage harvesters. 4,651,936, 3-24-87, Cl. 241-222.000.

Fleming, Philip S.; and Neagle, Richard M., to Shaw-Walker Company, The. Ergonomic support. 4,660,887, 4-28-87, Cl. 297-445.000.

Fleming, Robert W.: *See*—

Battaglia, Joseph A.; and Fleming, Robert W., 4,647,425, Cl. 376-308.000.

Fleming, Roger L.: *See*—

Charlton, Steven C.; Fleming, Roger L.; Hemmes, Paul; and Lau, Arthur L. Y., 4,645,744, Cl. 436-74.000.

Fleming, Roy E. Well cap. 4,715,439, 12-29-87, Cl. 166-68.000.

Fleming, Terry, to Tracker Mounts Inc. Tracker mount assembly for microwave dishes. 4,654,670, 3-31-87, Cl. 343-882.000.

Fleming, Ward. Vertical three-dimensional image screen. 4,654,989, 4-7-87, Cl. 40-427.000.

Fleming, William T.: *See*—

Lalin, Hill S.; Bermudez, Jorge E.; and Fleming, William T., 4,691,577, Cl. 73-861.050.

Flemming, Helmut: *See*—

Solleder, Otto; Flemming, Helmut; Konig, Werner; and Kleinschmit, Einhard, 4,699,230, Cl. 180-73.100.

Flemming Hvidt Mobelarkitektfirma A/S: *See*—

Pontoppidan, Eskild, 4,653,736, Cl. 267-70.000.

Flemming, Leonard P.: *See*—

Steuernagel, Robert J.; and Flemming, Leonard P., 4,664,066, Cl. 119-52.00R.

Flender, Hans F.: *See*—

Roos, Johann; and Flender, Hans F., 4,646,661, Cl. 110-245.000.

Flerlage, Horst: *See*—

Freudenreich, Erwin; Flerlage, Horst; and Sewing, Karlernst, 4,682,274, Cl. 362-61.000.

Flesher, Jerome A.: *See*—

Campbell, Max L.; and Flesher, Jerome A., 4,670,798, Cl. 360-12.000.

Flesher, Peter; and Farrar, David, to Allied Colloids Limited. Aqueous polymer dispersions. 4,673,704, 6-16-87, Cl. 524-519.000.

Flesher, Peter; Clarke, John; and Marshall, David, to Allied Colloids Limited. Water absorbing polymers. 4,690,971, 9-1-87, Cl. 524-555.000.

Flesher, Peter; Farrar, David; Hawe, Malcolm; and Langley, John, to Allied Colloids Limited. Flocculants and their use. 4,702,844, 10-27-87, Cl. 210-733.000.

Flessa, Steven A.: *See*—

Keem, John E.; Ovshinsky, Stanford R.; Flessa, Steven A.; Wood, James L.; Hart, Keith L.; and Sztaba, Lennard, 4,693,933, Cl. 428-333.000.

Flesser, Brian D.: *See*—

Sharpe, Murem S.; Bryson, Eugene; Manduley, Flavio; Riordan, Eben M., II; and Flesser, Brian D., 4,713,761, Cl. 364-406.000.

Fletcher, Aaron N.; and Kauffman, Joel M., to United States of America, Navy. 2-substituted oxazolo [4,5-b] pyridine laser dyes. 4,663,074, 5-5-87, Cl. 252-301.170.

Fletcher, Aaron N.: *See*—

McManis, George E., III; Miles, Melvin H.; and Fletcher, Aaron N., 4,654,278, Cl. 429-112.000.

Fletcher, Alan J.: *See*—

Johnsen, Kenneth D.; and Fletcher, Alan J., 4,640,434, Cl. 220-287.000.

Fletcher, Brian, to EWS Water Treatment Inc. Water purification method and apparatus. 4,643,831, 2-17-87, Cl. 210-668.000.

Fletcher, David L.; and Graham, Arthur E., to International Business Machines Corporation. Electrophoretic insulation of metal circuit board core. 4,714,646, 12-22-87, Cl. 428-204.000.

Fletcher, David W.: *See*—

Croopnick, Bruce J.; and Fletcher, David W., 4,675,859, Cl. 369-147.000.

letcher, Douglas C.: *See*—

Ransburg, David P.; Fletcher, Douglas C.; and Wahlstrom, Sven E., 4,646,224, Cl. 364-143.000.

letcher, Gary S., Jr.: *See*—

Fuller, Milton E.; and Fletcher, Gary S., Jr., 4,679,426, Cl. 73-53.000.

letcher, Horace, 3rd: *See*—

Lewis, Alan J.; Carlson, Richard P.; and Fletcher, Horace, 3rd, 4,659,728, Cl. 514-374.000.

etcher, Ian J.: *See*—

Bedekovic, Davor; and Fletcher, Ian J., 4,668,790, Cl. 546-116.000.

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Zink, Rudolf; and Fletcher, Ian J., 4,668,966, Cl. 346-218.000.

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tcher, James D., to RCA Corporation. Latch for printed circuit oard. 4,703,396, 10-27-87, Cl. 361-419.000.

tcher, Lawrence: *See*—

Ulriksson, Bengt A.; and Fletcher, Lawrence, 4,682,060, Cl. 307-543.000.

Fletcher, Mark G.: *See*—

Bollin, Ernest, Jr.; and Fletcher, Mark G., 4,678,812, Cl. 514-777.000.

Fletcher, Richard J.: *See*—

Wischusen, Henry, III; and Fletcher, Richard J., 4,676,430, Cl. 229-140.000.

Fletcher, Richard W.: *See*—

Manser, Gerald E.; and Fletcher, Richard W., 4,707,540, Cl. 528-417.000.

Fletcher, Robert T.: *See*—

Lee, Richard G.; and Fletcher, Robert T., 4,676,860, Cl. 156-443.000.

Fletcher, Roderick J., to Westinghouse Electric Corp. Integrated circuit having outputs configured for reduced state changes. 4,667,337, 5-19-87, Cl. 377-41.000.

Fletcher, Stanley. Apparatus for counterbalancing tongs. 4,643,399, 2-17-87, Cl. 254-386.000.

Fletcher, Stephen R.: *See*—

Taylor, Edward C.; Beardsley, George P.; Harrington, Peter J.; and Fletcher, Stephen R., 4,684,653, Cl. 514-258.000.

Fletcher Sutcliffe Wild Ltd.: *See*—

Pentith, Gerald R. O., 4,696,391, Cl. 198-833.000.

Fletcher, Taylor C. Digital temperature indicating system. 4,713,783, 12-15-87, Cl. 364-557.000.

Fletcher-Terry Company, The: *See*—

Kozyrski, Vincent T.; and Hawk, D. Wayne, 4,674,669, Cl. 227-147.000.

Kozyrski, Vincent T.; and Peters, Alan R., 4,699,307, Cl. 227-132.000.

Fletcher, Thomas K.: *See*—

Waters, Donald D.; Fletcher, Thomas K.; and Krupp, Stephen P., 4,647,360, Cl. 204-296.000.

Fletcher, William C., to Plan Hold Canada Inc. Hanger support for filing cabinets. 4,666,047, 5-19-87, Cl. 211-46.000.

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van der Heijden, Antonius W. F.; and Fleuren, Petrus A. M., 4,685,891, Cl. 445-36.000.

Fleury, Jean-Luc: *See*—

Burdette, Fred E.; Fleury, Jean-Luc; and Rossler, Manfred, 4,643,640, Cl. 415-164.000.

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Flexcon Company, Inc.: *See*—

Pennace, John R.; and Quinn, Sharon A., 4,684,557, Cl. 428-40.000.

Flexi-Coil Limited: *See*—

Friggstad, Terrance, 4,653,592, Cl. 172-311.000.

Friggstad, Terrance, 4,676,321, Cl. 172-776.000.

Kelm, Daniel W., 4,685,843, Cl. 406-181.000.

Flexible Manufacturing Systems, Inc.: *See*—

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Rough, J. Kirkwood H.; Krolak, Michael; and Biche, Michael R., 4,654,573, Cl. 320-2.000.

Flexible Steel Lacing Company: *See*—

Gladding, Alfred E.; and Musil, Edward C., 4,688,711, Cl. 227-147.000.

Musil, Edward C., 4,694,958, Cl. 206-340.000.

Musil, Edward C., 4,708,558, Cl. 411-457.000.

Flexibox Limited: *See*—

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Flexmaster U.S.A., Inc.: *See*—

Keating, Henry M.; and Fortenberry, Kirby C., 4,667,449, Cl. 52-213.000.

Flexpak Co.: *See*—

Ireland, Daniel T.; and Foster, James B., 4,647,491, Cl. 428-137.000.

Flexwatt Corporation: *See*—

Grise, Frederick G. J., 4,656,339, Cl. 219-528.000.

Grise, Frederick G. J., 4,690,347, Cl. 242-57.100.

Flick, Robert H.; Dennis, Lawrence D.; and Walker, Roger E., to Westinghouse Electric Corp. Multi-phase circuit breaker with interphase barrier retention. 4,713,635, 12-15-87, Cl. 335-8.000.

Flick, Robert H.: *See*—

Farley, James R.; and Flick, Robert H., 4,644,122, Cl. 200-304.000.

Flick, Willi; and Bredow, Walter, to C.Behrens AG. Cutting press with tool magazine. 4,646,600, 3-3-87, Cl. 83-136.000.

Flickinger, Dale M.; and Flickinger, Mark D. Furnace with oscillating grate. 4,656,956, 4-14-87, Cl. 110-233.000.

Flickinger, Mark D.: *See*—

Flickinger, Dale M.; and Flickinger, Mark D., 4,656,956, Cl. 110-233.000.

Fliervoet, Johannes H. M.; and Offringa, Oege R., to Wavin B.V. Pipe connection of fibre reinforced plastic pipe parts. 4,662,655, 5-5-87, Cl. 285-24.000.

Flies, William P., to Datakey, Inc. Receptacle design for use with electronic key-like device. 4,659,915, 4-21-87, Cl. 235-441.000.

Flight Dynamics, Inc.: *See*—

Wood, Robert B.; Hung, Jen-Lih; and Jee, Norman S., 4,655,540, Cl. 350-3.700.

Wood, Robert B., 4,669,810, Cl. 350-3.700.

Flight Equipment and Engineering Ltd.: *See*—

Simpson, Leslie J., 4,635,999, Cl. 297-88.000.

  Simpson, Leslie J., 4,681,369, Cl. 297-316.000.
Flight, Robert S., to Caldwell Manufacturing Company. Adjustable friction block and tackle window balance system. 4,654,928, 4-7-87, Cl. 16-199.000.
Flight, Robert S., to Caldwell Manufacturing Company. Pulley mount for window balance system. 4,689,850, 9-1-87, Cl. 16-197.000.
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  Newton, William P.; and Flight, Robert S., 4,672,713, Cl. 16-197.000.
Flinchbaugh, Bruce E., to Texas Instruments Incorporated. Systems for extracting horizons contained in a 3-D network of turnings and converting the horizons to a 2-D format. 4,672,546, 6-9-87, Cl. 364-421.000.
Flinchbaugh, Bruce E., to Texas Instruments Incorporated. System and method for displaying, and interactively excavating and examining a three dimensional volume. 4,685,070, 8-4-87, Cl. 364-522.000.
Flinchbaugh, Bruce E., to Texas Instruments Incorporated. Method and apparatus for reviewing and modifying horizons of a three-dimensional seismic volume. 4,703,426, 10-27-87, Cl. 364-421.000.
Flinchum, John A. Hydraulic volumetric proportioning valve. 4,655,240, 4-7-87, Cl. 137-110.000.
Flinders University of South Australia, The: See—
  Baker, Bruce G.; Clark, Neville J.; McArthur, Hamish; and Summerville, Edward, 4,666,880, Cl. 502-302.000.
Flindt, Werner; and Noll, Hans, to Klockner Wilhelmsburger GmbH. Method and apparatus for welding two pipes along their line of penetration. 4,679,722, 7-14-87, Cl. 228-168.000.
Fling, Russell T., to RCA Corporation. Video signal field/frame storage system. 4,639,783, 1-27-87, Cl. 358-166.000.
Fling, Russell T., to RCA Corporation. Video signal recursive filter adaptively controlled responsive to the history of image motion. 4,639,784, 1-27-87, Cl. 358-167.000.
Fling, Russell T., to RCA Corporation. Apparatus for adaptively controlling a video signal recursive filter. 4,652,907, 3-24-87, Cl. 358-36.000.
Fling, Russell T.; and Christopher, Todd J., to RCA Corporation. Filtering system for processing a reduced-resolution video image. 4,652,908, 3-24-87, Cl. 358-37.000.
Fling, Russell T., to RCA Corporation. Apparatus for reducing the resolution of video samples by truncating the most significant bits. 4,654,695, 3-31-87, Cl. 358-11.000.
Fling, Russell T.; and Christopher, Todd J., to RCA Corporation. Vertical subsampling and memory synchronization system for a picture within a picture television receiver. 4,656,516, 4-7-87, Cl. 358-183.000.
Fling, Russell T., to RCA Corporation. Phase calculation circuitry in digital television receiver. 4,710,892, 12-1-87, Cl. 364-729.000.
Fling, Russell T.: See—
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  McNeely, David L.; and Fling, Russell T., 4,636,840, Cl. 358-31.000.
  Rabii, Khosro M.; and Fling, Russell T., 4,663,668, Cl. 358-171.000.
  Willis, Donald H.; and Fling, Russell T., 4,639,763, Cl. 358-11.000.
  Willis, Donald H.; Fling, Russell T.; and Christopher, Todd J., 4,667,240, Cl. 358-167.000.
  Willis, Donald H.; Fling, Russell T.; and Christopher, Todd J., 4,680,632, Cl. 358-166.000.
Flint, Ephraim B.; Gruber, Peter A.; Marks, Ronald F.; Olive, Graham; and Zingher, Arthur R., to International Business Machines Corporation. Oxide-free extruded thermal joint. 4,685,606, 8-11-87, Cl. 228-123.000.
Flint, John R.: See—
  Kaplan, Harold L.; Flint, John R.; Videlock, Gary B.; Niazi, Ishfaq A.; Hendrickson, Kenneth L.; Slutsky, Gary S.; Schwalb, Stuart F.; Carroll, John J.; and Friedrich, Paul H., 4,699,504, Cl. 355-20.000.
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Flo-Bob Industries Inc.: See—
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Flo-Con Systems, Inc.: See—
  King, Patrick D., 4,667,937, Cl. 266-236.000.
  King, Patrick D., 4,667,938, Cl. 266-271.000.
  King, Patrick D., 4,693,296, Cl. 164-440.000.
  King, Patrick D., 4,715,423, Cl. 164-98.000.
Flo-Tork, Inc.: See—
  Carr, Paul, 4,638,717, Cl. 91-26.000.
  Fejes, Julius, 4,683,805, Cl. 92-129.000.
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Floating Technology Company Limited, The: See—
  Wagstaff, William L., 4,695,191, Cl. 405-195.000.
Flockenhaus, Claus: See—
  Wagener, Dietrich; Laue, Karl H.; Wunderlich, Egmar; Sander, Theo; Flockenhaus, Claus; Hackler, Erich; Levkov, Blagoje; Grimm, Daniel; Kainer, Hartmut; and Stein, Hermann, 4,672,052, Cl. 502-439.000.
  Wagener, Dietrich; Laue, Karl H.; Wunderlich, Egmar; Sander, Theo; Flockenhaus, Claus; Hackler, Erich; Levkov, Blagoje; Grimm, Daniel; Kainer, Hartmut; Stein, Hermann; Buhler, Hans-Eugen; Kalfa, Horst; Jansen, Johann; Stender, Werner; and Ma Arnold, 4,695,559, Cl. 502-183.000.
Flockerzi, Dieter; Klemm, Kurt; and Ulrich, Wolf-Rudiger, to By Gulden Lomberg Chemische Fabrik GmbH. Diaryl piperidine containing esters of 1,4-dihydropyridines and coronary therapeutic use. 4,707,486, 11-17-87, Cl. 514-318.000.
Flohr, Mark C., to Smith International, Inc. Pneumatic well casing pressure regulating system. 4,700,739, 10-20-87, Cl. 137-488.000.
Flohr, Peter; and Michel, Hartmut, to Robert Bosch GmbH. Monolithically integrated planar semiconductor arrangement. 4,695,86 9-22-87, Cl. 357-46.000.
Flom, Leonard, and Safir, Aran. Iris recognition system. 4,641,34 2-3-87, Cl. 382-2.000.
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  Nelson, Robert, and Flome, Robert, 4,659,330, Cl. 604-192.00
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  Fatz, Robert L.; Walker, William J.; Ramey, Philip; Adams, Kenneth M.; Flonc, Nicholas P.; and Nguyen, Dean, 4,681,72 Cl. 264-257.000.
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  Guion, Christian, 4,675,516, Cl. 235-441.000.
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Flood, Gary N., to Branson Ultrasonics Corporation. Ultrasonic apparatus for joining and severing sheet material. 4,690,722, 9-1-87, C 156-510.000.
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  Cherkin, Arthur; Flood, James F.; and Wong, David T., 4,647,5 Cl. 514-651.000.
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  Snyder, Steven A.; Smith, Jack; Flora, David D.; and Barne Robert L., 4,694,713, Cl. 82-14.00R.
Flora, Jay L., and Haycock, David A., to Ampex Corporation. Hi performance analog gate/absolute value circuit. 4,663,544, 5-5-87, C 307-455.000.
Flora, Jay L.; and Haycock, David A., to Ampex Corporation. Multi input silent audio switch. 4,675,905, 6-23-87, Cl. 381-81.000.
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- res, Jorge: *See*—
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- ida Progress Corporation: *See*—
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- ida State University: *See*—
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- ida Steel Corporation: *See*—
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- re, Jean, to Fabricom Corporation. Firmware transitional pro- mmable sequential logic controller. 4,700,326, 10-13-87, Cl. 4-200.000.
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  - shish, Mohamed A.; Kirby, Michael J.; and Pao, Yih-Ho, ,648,215, Cl. 51-439.000.
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  - Hashish, Mohammed A., 4,698,939, Cl. 51-410.000.
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- Floyd, Don E., to Henkel Corporation. Aminopolyols and polyurethanes prepared therefrom. 4,696,771, 9-29-87, Cl. 260-404.000.
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Harris, Robert M., and Anderson, Neil G., 4,685,412, Cl. 114-238.000.

Harris, Robert M., and Blomquist, Arthur G., 4,700,653, Cl. 114-316.000.

Hensler, Paul L.; Kelso, Frederick J., Wolfe, Gary E.; and Zeh, Peter H., 4,656,019, Cl. 423-315.000.

Khanna, Nirmal K., 4,676,963, Cl. 423-315.000.

Kondo, Kiyoshi; Takashima, Toshiyuki; and Suda, Minoru, 4,701,539, Cl. 549-294.000.

Kuhn, James A., II, 4,649,607, Cl. 29-6.100.

Kurtz, Andrew D., 4,661,207, Cl. 203-3.000.

Lambrecht, Emiel, 4,679,474, Cl. 83-171.000.

Lambrecht, Emiel, 4,699,607, Cl. 493-204.000.

Lambrecht, Emiel Y.; and Van Der Gucht, William, 4,702,731, Cl. 493-196.000.

Maravetz, Lester L., 4,702,763, Cl. 71-90.000.

Maravetz, Lester L., 4,705,557, Cl. 71-92.000.

McCracken, Alan; Dominiani, Frank J., Jr.; and DeJarnette, Edward A., Jr., 4,697,739, Cl. 239-127.000.

McDaniel, Kenneth D., Jr.; Endres, Douglas W., and Griebel, Francis J., 4,653,654, Cl. 212-182.000.

McIntyre, John N., 4,650,151, Cl. 251-14.000.

Osborne, Mark W., 4,667,816, Cl. 206-3.000.

Phillips, Richard B., Plummer, Ernest L., and Engel, John F., 4,701,464, Cl. 514-345.000.

Plummer, Ernest L., 4,636,523, Cl. 514-443.000.

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Provonchee, Richard B.; and Renn, Donald W., 4,659,672, Cl. 435-287.000.

Provonchee, Richard B., 4,701,754, Cl. 340-815.030.

Sample, Charles A.; and Lotto, Ronald L., 4,668,147, Cl. 414-27.000.

Sample, Charles A.; and Lotto, Ronald L., 4,668,148, Cl. 414-50.000.

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Sethi, Dalbir S., 4,668,436, Cl. 260-369.000.

Shearon, Charles W.; Berticevich, Edward N., and Billett, Ronald J., 4,685,214, Cl. 30-391.000.

Shute, Jonathan F.; and Rosenhouse, Harvey, 4,713,228, Cl. 423-317.000.

Sieburth, Scott M., 4,709,068, Cl. 556-447.000.

Sogge, John, 4,712,340, Cl. 52-177.000.

Sturtz, Charles R.; and McCallin, Peter J., 4,662,809, Cl. 414-347.000.

Sturtz, Charles R., 4,701,097, Cl. 414-495.000.

Taylor, Edward C.; Katz, Alan H.; Bull, Randy A.; Byers, Lance R.; and Brown, Richard A., 4,695,658, Cl. 568-763.000.

Thoor, Henry-Albert, 4,635,669, Cl. 137-79.000.

Tye, Richard J.; Lauterbach, George E.; and Standel, Philip R., 4,698,172, Cl. 252-70.000.

Wafer, Don B., and Barrington, Claud C., 4,711,262, Cl. 137-14.000.

Wheatley, Thomas A.; and Shah, Rashminkumar S., 4,693,896, Cl. 424-480.000.

Wiethoff, Roger H.; and Nelson, Gary J., 4,700,609, Cl. 89-46.000.

FMR Corporation: *See—*

Viggiano, Frank, 4,712,262, Cl. 5-508.000.

FMW Corporation: *See—*

Fredriksen, Herbert A.; Walter, Richard K.; and Mentzer, Ronald B., 4,662,004, Cl. 455-607.000.

Foa, Marco; and Gatti, Norberto, to Montedison S.p.A. Process for the manufacture of o-nitrobenzaldehyde. 4,689,433, 8-25-87, Cl. 568-424.000.

Foa, Marco: *See—*

Sacconi, Luigi; Foa, Marco; Bencini, Elena; and Sabarino, Giampiero, 4,639,506, Cl. 528-212.000.

Foam Cutting Engineers, Inc.: *See—*

Pettingell, Winslow L., 4,686,932, Cl. 118-419.000.

Foamseal, Inc.: *See—*

Johnson, Malcolm C.; and Stolz, Theodore O., 4,636,423, Cl. 428-198.000.

Focalpoint Armoury Limited: *See—*

Cannon, Albert W., 4,695,159, Cl. 356-247.000.

Focaracci, Julio P., to Clorox Company, The. Impingement foamer 4,646,973, 3-3-87, Cl. 239-428.500.

Foch, Henri; and Duparc, Jacques, to Jeumont-Schneider Corporation. Commutator containing a semiconductor with unidirectional current and bidirectional voltage, and with controlled interruption and automatic ignition. 4,642,553, 2-10-87, Cl. 323-322.000.

Fochler, Helmut P.: *See—*

Pate, Harold T.; and Fochler, Helmut P., 4,647,074, Cl. 285-64.000.

Focht, Dennis D., to University of California, Regents of the. Analog enrichment decontamination process. 4,664,805, 5-12-87, Cl. 210-611.000.

Fochtman, Edward G.; and Swanstrom, Carl P., to Chemical Waste Management, Inc. Waste material compression tester. 4,697,457, 10-6-87, Cl. 73-820.000.

Fock, Jurgen; and Rott, Hans, to Th. Goldschmidt AG. Use of copolymers of polyoxyalkylene ethers of allyl and/or methallyl alcohol and vinyl esters as demulsifiers for water-containing crude oil. 4,678,599, 7-7-87, Cl. 252-343.000.

Fock, Jurgen; Esselborn, Eberhard; Fink, Hans-Ferdi; and Heilen, Wernfried, to Th. Goldschmidt AG. Use of polymers of alkylvinyl ethers to prevent or eliminate foam on aqueous media. 4,692,267, 9-8-87, Cl. 252-321.000.

Fock, Kurt; Hermann, Hans D.; Fabian, Klaus; and Ebigt, Joachim, to Hoechst Aktiengesellschaft. Reduction in the adhesion to glass of thermoplastic, plasticized polyvinylbutyral molding compositions. 4,663,235, 5-5-87, Cl. 428-437.000.

Focke & Co.: *See—*

Focke, Heinz; and Schonberger, Hans, 4,636,186, Cl. 493-142.000.

Focke, Heinz, 4,646,508, Cl. 53-234.000.

Focke, Heinz, 4,652,329, Cl. 156-351.000.

Focke, Heinz; and Mutschall, Hugo, 4,678,074, Cl. 198-457.000.

Focke, Heinz, 4,682,038, Cl. 250-548.000.

Focke, Heinz; and Balmer, Oskar, 4,711,349, Cl. 206-260.000.

Focke, Heinz; and Liedtke, Kurt, 4,715,497, Cl. 206-254.000.

Focke, Heinz; and Focke, Jurgen, 4,715,847, Cl. 493-11.000.

Focke & Co. (GmbH & Co.): *See—*

Focke, Heinz, 4,646,938, Cl. 221-175.000.

Focke, Heinz, 4,662,624, Cl. 271-157.000.

Focke, Heinz; and Mutschall, Hugo, 4,678,901, Cl. 250-223.00R.

Focke, Heinz; and Balmer, Oskar, 4,680,024, Cl. 493-197.000.

Focke, Heinz; and Liedtke, Kurt, 4,694,714, Cl. 83-13.000.

Focke, Heinz; and Mutschall, Hugo, 4,708,704, Cl. 493-151.000.

Focke, Heinz; Langer, Horst; and Bretthauer, Hans-Jurgen, 4,711,065, Cl. 53-170.000.

Focke, Heinz; and Schonberger, Hans, to Focke & Co. Apparatus for setting and shaping glued cigarette packs. 4,636,186, 1-13-87, Cl. 493-142.000.

Focke, Heinz, to Focke & Co. Apparatus for producing packs especially cigarette sticks. 4,646,508, 3-3-87, Cl. 53-234.000.

Focke, Heinz, to Focke & Co. (GmbH & Co.). Apparatus for packaging elongate articles, especially cigarettes. 4,646,938, 3-3-87, Cl. 221-175.000.

Focke, Heinz, to Focke & Co. Apparatus for joining sheets of packaging material. 4,652,329, 3-24-87, Cl. 156-351.000.

Focke, Heinz, to Focke & Co. (GmbH & Co.). Apparatus for maintaining a sufficient stock of blanks for a packaging machine. 4,662,624, 5-5-87, Cl. 271-157.000.

Focke, Heinz; and Mutschall, Hugo, to Focke and Co. Apparatus for separating objects (packages) from a continuous row of objects 4,678,074, 7-7-87, Cl. 198-457.000.

Focke, Heinz; and Mutschall, Hugo, to Focke & Co., (GmbH & Co.) Optical sensor for monitoring cigarette groups. 4,678,901, 7-7-87, Cl. 250-223.00R.

Focke, Heinz; and Balmer, Oskar, to Focke & Co., (GmbH & Co.) Apparatus for producing bags from a tubular sheet of thermally weldable film material. 4,680,024, 7-14-87, Cl. 493-197.000.

Focke, Heinz, to Focke & Co. Arrangement for monitoring and controlling webs in packaging machines. 4,682,038, 7-21-87, Cl. 250-548.000.

Focke, Heinz; and Liedtke, Kurt, to Focke & Co. (GmbH & Co.) Process and apparatus for changing reels in connection with packaging machines. 4,694,714, 9-22-87, Cl. 83-13.000.

Focke, Heinz; and Mutschall, Hugo, to Focke & Co. (GmbH & Co.) Process for producing packs with rounded or bevelled edges 4,708,704, 11-24-87, Cl. 493-151.000.

Focke, Heinz; Langer, Horst; and Bretthauer, Hans-Jurgen, to Focke & Co., (GmbH & Co.). Apparatus for producing packs, especially cigarette cartons. 4,711,065, 12-8-87, Cl. 53-170.000.

Focke, Heinz; and Balmer, Oskar, to Focke & Co. Pouch pack for tobacco as well as a process and apparatus for making this. 4,711,349, 12-8-87, Cl. 206-260.000.

Focke, Heinz; and Liedtke, Kurt, to Focke & Co. Shoulder box for cigarettes or the like. 4,715,497, 12-29-87, Cl. 206-254.000.

Focke, Heinz; and Focke, Jurgen, to Focke & Co. Process and apparatus for producing blanks for packs. 4,715,847, 12-29-87, Cl. 493-11.000.

Focke, Holger: *See—*

Werle, Peter; Focke, Holger; and Boes, Alwin, 4,683,307, Cl. 544-198.000.

Focke, Jurgen: *See—*

Focke, Heinz; and Focke, Jurgen, 4,715,847, Cl. 493-11.000.

Fockens, Tallienco W. H., to N.V. Nederlandsche Apparatenfabriek NEDAP. Field disturbance detection system. 4,686,517, 8-11-87, Cl. 340-572.000.

Focqueur, Herve., and Jumel, Bernard, to Valeo. Torsional damper device. 4,714,448, 12-22-87, Cl. 464-68.000.

Focus Semiconductor Systems, Inc.: *See—*

Mahawili, Imad, 4,673,799, Cl. 219-399.000.

Fodor, Amdras: *See—*

Timar, Tibor; Zsupan, Kalman; Repasi, Janos; Borsos nee Safranek, Iren; Kiss, Istvan; Fodor, Amdras; and Maroy, Peter, 4,716,238, Cl. 549-408.000.

Fodor, Jozsef: *See—*

Balint, Sandor; Benczik nee Pasztor, Judit; Fodor, Jozsef; Horvath, Andras; Tomordi, Elemer; Soptei, Csaba; Karsai, Jozsef; Sebestyen, Endre; Gaal, Sandor; Gardi, Ivan; Kiss, Gyorgy; Papp, Andrass; and Csatlos, Imre, 4,668,274, Cl. 71-86.000.

Foeldesi, Mihaly; and Attinger, Thomas, to Daimler-Benz Aktiengesellschaft. Cooler shroud arranged at the cooler of a liquid-cooled internal-combustion engine. 4,662,822, 5-5-87, Cl. 415-213.00C.

Foeller, David E.: *See—*
Harris, Clark E.; Covington, Roger G.; and Foeller, David E., 4,660,105, Cl. 360-60.000.
Foerster, George, to Farley Metals, Inc. Method for producing an oxidation resistant magnesium alloy melt. 4,659,377, 4-21-87, Cl. 75-96.000.
Foerster, Hans-Joachim, to Daimler-Benz Aktiengesellschaft. Steering system with auxiliary force assist for vehicles in which a central steering limit valve is connected with the pump pressure line of a steering assist pump. 4,683,972, 8-4-87, Cl. 180-142.000.
Foerster, Karl-Heinz; and Koerner, Siegfried, to VEB Kombinat Polygraph "Werner Lamberz" Leipzig. Indicating device for a printing machine for superimposing ink key setting values on an image to be printed. 4,639,776, 1-27-87, Cl. 358-107.000.
Foerster, Karl-Heinz: *See—*
Buschmann, Falk; Foerster, Karl-Heinz; Eichler, Volker; Heiber, Hartmut; and Dittrich, Volkmar, 4,653,077, Cl. 377-2.000.
Buschmann, Falk; Foerster, Karl-Heinz; Eichler, Volker; Heiber, Hartmut; and Dittrich, Volkmar, 4,661,918, Cl. 364-569.000.
Buschmann, Falk; Foerster, Karl-Heinz; Eichler, Volker; Heiber, Hartmut; and Dittrich, Volker, 4,661,919, Cl. 364-569.000.
Buschmann, Falk; Foerster, Karl-Heinz; Eichler, Volker; Heiber, Hartmut; and Dittrich, Volmar, 4,665,498, Cl. 364-569.000.
Buschmann, Falk; Foerster, Karl-Heinz; Eichler, Volker; Heiber, Hartmut; and Dittrich, Volkmar, 4,669,050, Cl. 364-569.000.
Schuck, Helmut; Foerster, Karl-Heinz; Kuehn, Monika; and Schanze, Klaus, 4,701,757, Cl. 340-825.060.
Fog, Arne D.: *See—*
Markussen, Erik K.; and Fog, Arne D., 4,661,452, Cl. 435-187.000.
Fogaroli, Giuseppe: *See—*
Carena, Ugo; Coli, Giuseppe; and Fogaroli, Giuseppe, 4,683,501, Cl. 358-293.000.
Fogarty, Thomas J., to Fogarty, Thomas J. Flexible calibrator. 4,643,194, 2-17-87, Cl. 128-668.000.
Fogarty, Thomas J.: *See—*
Chin, Albert K., 4,671,278, Cl. 128-325.000.
Chin, Albert K., 4,696,304, Cl. 128-673.000.
Johnston, James H.; Hermann, George D.; and Atagi, Tanya A., 4,709,698, Cl. 128-303.120.
Fogassy, Elemer: *See—*
Acs, Maria; Faigl, Ferenc; and Fogassy, Elemer, 4,642,205, Cl. 260-501.170.
Fogel, Isaac; and Keefer, Donald W., to Classic Corporation. Waterbed motion reduction and hydraulic enhancement system. 4,715,076, 12-29-87, Cl. 5-450.000.
Fogelberg, Mark J., to Borg-Warner Corporation. Transmission anti-clash and anti-rattle brake. 4,679,663, 7-14-87, Cl. 188-82.100.
Fogelberg, Mark J.: *See—*
Atkinson, Robert W.; and Fogelberg, Mark J., 4,649,771, Cl. 74-781.00R.
Fogelman, Jack: *See—*
Oretsky, Philip H.; and Fogelman, Jack, 4,647,049, Cl. 273-264.000.
Fogerite, Susan G.: *See—*
Mannino, Raphael J.; and Fogerite, Susan G., 4,663,161, Cl. 424-89.000.
Fogg, Stephen W., to Bendix Limited. Two-circuit fluid pressure control valve. 4,679,594, 7-14-87, Cl. 137-627.500.
Foggia, Albert A.; and Sabonnadiere, Jean-Claude, to L'Etat Francais. Electro-mechanical converter with several degrees of freedom. 4,634,889, 1-6-87, Cl. 307-104.000.
Foggini, Paolo, to Foggini Progetti S.r.l. Device for controlling opening and closing of movable objects, in particular doors and drawers in motor vehicles, having mutually cooperating stator and rotor. 4,694,530, 9-22-87, Cl. 16-82.000.
Foggini Progetti S.r.l.: *See—*
Foggini, Paolo, 4,694,530, Cl. 16-82.000.
Foggles, Inc.: *See—*
Gilson, Richard D., 4,698,022, Cl. 434-36.000.
Fogleman, H. Frank; and Druihet, Harold N. Safes. 4,669,394, 6-2-87, Cl. 109-59.00T.
Fogleman, H. Frank; and Parrish, Randall E., to Protech Partnership, The. Redundant electrically controlled locking apparatus. 4,671,086, 6-9-87, Cl. 70-277.000.
Fogleman, H. Frank; and Parrish, Randall E., to Protech Partnership, The. Electrically controlled locking apparatus and safe utilizing same. 4,686,912, 8-18-87, Cl. 109-59.00T.
Foglesonger, John D.; and Vranson, David M., to ITT Corporation. Waveguide assembly. 4,638,273, 1-20-87, Cl. 333-254.000.
Foglesonger, John D.; and Vranson, David M., to ITT Gilfillan, a division of ITT Corporation. Method of making waveguide assembly. 4,689,876, 9-1-87, Cl. 29-600.000.
Foglio, Maurizio: *See—*
Alpegiani, Marco; Bedeschi, Angelo; Foglio, Maurizio; Franceschi, Giovanni; and Perrone, Ettore, 4,713,450, Cl. 540-214.000.
Fogt, Eric J.: *See—*
Meyerhoff, Mark E.; Fogt, Eric J.; and Untereker, Darrel F., 4,694,834, Cl. 128-635.000.
Fohl, Artur, to TRW Repa GmbH. Safety belt takeup means. 4,667,893, 5-26-87, Cl. 242-107.200.
Fohl, Artur, to TRW Repa GmbH. Means for securing a child's seat on a vehicle seat by means of a normal three-point automatic safety belt system. 4,685,740, 8-11-87, Cl. 297-468.000.
Fohl, Artur, to TRW Repa GmbH. Passive safety belt comprising a drive means for moving an end fitting. 4,703,949, 11-3-87, Cl. 280-804.000.
Fohlen, George M.: *See—*
Achar, Bappalige N.; Fohlen, George M.; and Parker, John A., 4,649,189, Cl. 528-220.000.
Kumar, Devendra; Fohlen, George M.; and Parker, John A., 4,634,759, Cl. 528-321.000.
Kumar, Devendra; Fohlen, George M.; and Parker, John A., 4,668,589, Cl. 428-417.000.
Fohr, Robert D.; and Tieze, Jeffrey E. Underseat tackle containe 4,682,813, 7-28-87, Cl. 297-192.000.
Fohrman, Scott R.; and Steinmetz, Herbert. Polymeric shoe sizer 4,635,366, 1-13-87, Cl. 33-3.00B.
Foissac, Yves; and Guislain, Guy. Cylindrical mast element for end end assembly with other elements so as to constitute a mast. 4,656,804 4-14-87, Cl. 52-309.160.
Fok, Kam F.: *See—*
Tjoeng, Foe S.; Fok, Kam F.; and Adams, Steven P., 4,716,147, C 514-11.000.
Fok, Kam-Fook: *See—*
Erickson, Bruce W.; Fok, Kam-Fook; Incefy, Genevieve S.; and Ohga, Kazuhiro, 4,634,682, Cl. 436-518.000.
Van Eldik, Linda J.; Watterson, D. Martin; Erickson, Bruce W. and Fok, Kam-Fook, 4,716,150, Cl. 514-14.000.
Fok, Wilson W.; and Moussouris, John P., to International Busines Machines Corporation. RLL (1,7) encoder with single state bi 4,684,921, 8-4-87, Cl. 340-347.0DD.
Fok, Wilson W., to International Business Machines Corporatio Byte-wide encoder and decoder system for RLL (1,7) code 4,688,016, 8-18-87, Cl. 340-347.0DD.
Fokker B.V.: *See—*
De Haan, Frans W.; Wynia, Jan; and Zwanenburg, Rob, 4,641,7 Cl. 244-173.000.
de Vries, Luitzen; and Wierda, Gerhard J., 4,708,656, C 434-45.000.
Folb, Reece; and Gay, Shelton M., Jr., to United States of Americ Navy. High-speed faired towline. 4,655,155, 4-7-87, Cl. 114-243.00
Folch, Carlos M.: *See—*
Bacardit, Juan S.; and Folch, Carlos M., 4,685,301, Cl. 60-562.00
Rosell, Jorge E.; and Folch, Carlos M., 4,672,884, Cl. 91-375.00R
Folcher, Gerard: *See—*
Arnaudet, Lucile; and Folcher, Gerard, 4,642,337, Cl. 534-11.00
Foldesi, Istvan, to Montreal Milling Cutter Company. Apparatus fo forming and attaching a flexible foil sealing disk. 4,682,463, 7-28-8 Cl. 53-298.000.
Foldesi, Istvan: *See—*
Dutt, Herbert V.; Foldesi, Istvan; and Santostasi, Paul A. 4,683,016, Cl. 156-69.000.
Foldhazy, Zoltan, to Alfa-Laval Separation AB. Mechanical seal fo casing of centrifugal separators. 4,654,023, 3-31-87, Cl. 494-41.00
Foldhazy, Zoltan: *See—*
Klintenstedt, Kjell; Foldhazy, Zoltan; and Forsberg, Bjorn 4,710,160, Cl. 494-64.000.
Foletta, Wayne S. Credit card with active electronics. 4,650,9 3-17-87, Cl. 235-449.000.
Foley, Donald E.; Gipp, Gregory H.; Schwader, William G.; Sel Craig L.; Smittkamp, James A.; Stahl, Alan L.; and Szentes, John F. to Caterpillar Inc. Payload monitor. 4,635,739, 1-13-87, C 177-45.000.
Foley, Edward J.: *See—*
Cheal, James; Fitzsimmons, James R.; and Foley, Edward J 4,697,184, Cl. 342-28.000.
Foley, Geoffrey M. T., to Xerox Corporation. Self-biased scorotron and control therefor. 4,638,397, 1-20-87, Cl. 361-212.000.
Foley, Henry C.; and O'Toole, Michael P., to American Cyanamid Company. Bimetallic catalysts for the reaction of carbon monoxid and hydrogen and method of making the catalysts. 4,684,618, 8-4-8 Cl. 502-313.000.
Foley, Henry C.; and O'Toole, Michael P., to American Cyanamid Company. CO hydrogenation with molybdenum of wide-pore carbo catalysts. 4,687,784, 8-18-87, Cl. 518-714.000.
Foley, Henry L., to Bunn-O-Matic Corporation. Coffee-making ma chines. 4,676,148, 6-30-87, Cl. 99-279.000.
Foley, Henry L.: *See—*
Stover, Kenneth W.; Bledsoe, Raymond; and Foley, Henry L 4,676,150, Cl. 99-295.000.
Foley, James: *See—*
Oseroff, Allan; Foley, James; Cincotta, Louis; and Parrish, John A 4,651,739, Cl. 128-395.000.
Foley, Patrick J. Means and method of optimizing efficiency of fur naces, boilers, combustion ovens and stoves, and the like. 4,676,73 6-30-87, Cl. 431-12.000.
Foley, Paul, to Celanese Corporation. Curing of preceramic article with gaseous thionyl chloride. 4,693,914, 9-15-87, Cl. 427-255.000
Foley, Paul J.: *See—*
Weickert, Walter R.; and Foley, Paul J., 4,655,132, Cl. 101-269.000
Weickert, Walter R.; and Foley, Paul J., 4,715,298, Cl. 101-269.000
Foley, Robert G., to Elcon Products International Company. Electrica device. 4,662,706, 5-5-87, Cl. 339-256.00R.
Foley, William L.; and Bauer, James H., to Amsted Industries Incorpo rated. Wire rope with ductile core. 4,676,058, 6-30-87, Cl. 57-218.000
Folger Adam Company: *See—*
Carter, Robert J.; and Pecis, John G., 4,704,767, Cl. 16-388.000.
Folgero, Kare, to ASEA Aktiebolag. Stopper means in pouring fur naces. 4,666,134, 5-19-87, Cl. 266-272.000.
Folgero, Kare: *See—*
Anttila, Einar; and Folgero, Kare, 4,708,192, Cl. 164-323.000.
Archenholtz, Ake; and Folgero, Kare, 4,684,109, Cl. 266-216.000

Folienwalzwerk Bruder Teich Aktiengesellschaft: *See*—
Jud, Wilfried, 4,658,963, Cl. 206-632.000.
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Prohaska, Helmut, 4,638,911, Cl. 206-611.000.
Folk, Kenneth F.: *See*—
Arbogast, William C., Jr.; Boutcher, Andrew G., Jr.; Folk, Kenneth F.; Richart, Stephen D.; and Ross, Milton D., 4,649,636, Cl. 29-861.000.
Folk, Lee E.; and Asher, Reginald K., to Motorola, Inc. Laser marking method and ablative coating for use therein. 4,707,722, 11-17-87, Cl. 357-67.000.
Folk, Lee E.; and Derrington, Carl E., to Motorola, Inc. Method and apparatus for high pressure testing of solid state pressure sensors. 4,708,012, 11-24-87, Cl. 73-4.00R.
Folkard, Christopher W.; and Millross, Christopher R., to Vickers PLC. Radiation sensitive compositions. 4,687,728, 8-18-87, Cl. 430-270.000.
Folkers, Karl; Jie-Cheng, Xu; and Bowers, Cyril Y., to Board of Regents, The University of Texas System, The. Effective hormonal peptides: D-3-Pal^{6}-LHRH. 4,642,332, 2-10-87, Cl. 530-313.000.
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Folkins, Jeffrey J., to Xerox Corporation. Control system for an electrophotographic printing machine. 4,643,561, 2-17-87, Cl. 355-14.00D.
Folkmar, Jan: *See*—
Hofmann, Raimund, 4,691,821, Cl. 206-216.000.
Foll, Hans: *See*—
Bohm, Otto; Lallinger, Georg; and Foll, Hans, 4,674,391, Cl. 86-1.100.
Follansbee Steel Corporation: *See*—
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Foller, Werner, to Gestra Aktiengesellschaft. Steam trap. 4,706,699, 11-17-87, Cl. 137-192.000.
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Genequand, Pierre, 4,692,016, Cl. 355-1.000.
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Fong, Dan S. C., to Du Pont de Nemours, E. I., and Company. Heat-shrinkable polymeric barrier film. 4,690,865, 9-1-87, Cl. 428-341.000.
Fong, Dodd W., to Nalco Chemical Company. Cationic fluoro polymers. 4,645,813, 2-24-87, Cl. 526-247.000.
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  - Dubois, Craig: and Fontaine, Brian, 4,682,970, Cl. 446-309.000.
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- Fontaine, Jean F. L., to Goodyear Tire & Rubber Company, The. Pneumatic tire tread. 4,667,718, 5-26-87, Cl. 152-209.00R.
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- Fontaine, John M.: *See—*
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- Fontaine, Serge. Vehicle wheel traction mat. 4,650,115, 3-17-87, Cl. 238-14.000.
- Fontana, Anacleto. Machine for automatically applying hooks to elastic belts. 4,655,381, 4-7-87, Cl. 227-15.000.
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- Fontana, Mario, to Federal-Mogul Corporation. Method for manufacturing a flanged half bearing. 4,644,624, 2-24-87, Cl. 29-149.50R.
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- Fontana, Richard. Racetrack convertible guardrail. 4,635,905, 1-13-87, Cl. 256-65.000.
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- Fontanille, Michel H.: *See—*
  - Gautier, Jean-Claude C.; Fontanille, Michel H.; and Raynal, Serge F., 4,647,628, Cl. 525-331.700.
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- Fontenot, Ozeman J. Safety escape apparatus for elevated structures. 4,703,832, 11-3-87, Cl. 182-100.000.
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  - Nistri, Ugo; Baroffio, Romano; Ghisu, Giuseppe; Chiellini, Enzo; Padula, Giorgio; and Fonzi, Giorgio, 4,650,409, Cl. 425-82.100.
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  - Witt, Allan E.; Macri, Andrew B.; and Pasquini, Mario, 4,688,475, Cl. 99-325.000.
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  - Burgess, Ralph D., Jr.; and Davis, Stanley L., 4,676,711, Cl. 414-327.000.
- Food Machinery Sales, Inc.: *See—*
  - Hardage, Timothy W.; Haley, Charles T.; and Walker, William D., 4,712,356, Cl. 53-446.000.
- FoodCraft Equipment Company, Inc.: *See—*
  - Martin, Eugene G.; and Risser, Dale M., 4,644,608, Cl. 17-46.000.
- Foote, Danny R.; and Turner, Wayne O., to Berkley and Company, Inc. Graphite fiber fishing rod. 4,685,241, 8-11-87, Cl. 43-18.500.
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- Foote, James C., to Eastman Kodak Company. Record disk drive. 4,653,041, 3-24-87, Cl. 369-266.000.
- Foote, Michael R.: *See—*
  - Klemm, Steven R.; and Foote, Michael R., 4,659,496, Cl. 252-90.000.
- Foote, Steven A., to Sundstrand Data Control, Inc. Charge balancing detection circuit. 4,634,965, 1-6-87, Cl. 324-60.00C.
- Foral, Marvin J. Single power source data transmission system. 4,660,046, 4-21-87, Cl. 342-160.000.
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  - Payeur, Marcel, 4,653,561, Cl. 144-340.000.
- Forberg, Horst; Hegner, Gunter; Achtnig, Peter; and Delakowitz, Bernd, to Krone GmbH. Modular plug connector. 4,634,209, 1-6-87, Cl. 339-147.00R.
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- Forbes, David H.: *See—*
  - Allos, Talal I. Y.; Forbes, David H.; and Warnes, Christopher M., 4,659,216, Cl. 356-73.100.
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- Forbes, Hampton E., Jr., to Westvaco Corporation. Pour spout carton. 4,657,143, 4-14-87, Cl. 206-626.000.
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- Forbes, Richard L., II; and Thorp, Bruce E., to Xerox Corporation. Blade cleaning apparatus for flexible belt. 4,690,544, 9-1-87, Cl. 355-15.000.
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- Force Distribution, Inc.: *See—*
  - Beuch, Donald R., 4,662,087, Cl. 36-88.000.
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- Forch, Heiko: *See—*
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- Forchheimer, Robert; and Odmark, Anders. Device for an array of photo diodes arranged in a matrix. 4,684,991, 8-4-87, Cl. 358-213.110.
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  - Avila, Louis J.; Merritt, John F.; and Hempling, Norman G., 4,706,047, Cl. 332-19.000.
  - Baghdasarian, Varouj G., 4,654,671, Cl. 343-915.000.
  - Bains, William R., 4,685,639, Cl. 244-3.220.
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  - Cleveland, William C., Jr., 4,646,990, Cl. 244-3.210.
  - Conboy, Leo W., 4,691,293, Cl. 364-724.000.
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  - DeLacy, Thomas J., 4,634,868, Cl. 250-306.000.
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  - Hendry, James D.; and Tobias, Lee A., 4,715,284, Cl. 102-434.00
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  - Parvin, Bahram A., 4,698,751, Cl. 364-200.000.
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  - Serrone, Michael J.; Halloran, Timothy P.; and Wagner, Gary L., 4,675,558, Cl. 307-527.000.
  - Smoll, Allen E., 4,668,955, Cl. 343-761.000.
  - Vaddiparty, Yerriah P., 4,647,879, Cl. 333-127.000.
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- Ford, Alexander P., Jr., to Motorola, Inc. RF connector. 4,636,015, 1-13-87, Cl. 339-14.00R.
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- Ford, Allan L.; and Baronoff, Jay H., to Reborn Products Co., Inc. Novelty belt. 4,715,839, 12-29-87, Cl. 446-28.000.
- Ford, Carol M., to Honeywell Inc. Cathode-block construction for long life lasers. 4,672,624, 6-9-87, Cl. 372-87.000.
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- Ford, Douglas L., to Memtec Limited. Separating oil emulsions. 4,655,927, 4-7-87, Cl. 210-639.000.
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- Ford, Frank G.: *See*—
  - Barnsdale, William J., Jr.; and Ford, Frank G., 4,685,056, Cl. 364-200.000.
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- Ford, George W., Jr.; and Palmer, Darrel R., to Ballard Medical Products. Foam dispensing device. 4,640,440, 2-3-87, Cl. 222-190.000.
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- Ford, Lindy R. Position selectable delay generator for mechanism trigger. 4,685,330, 8-11-87, Cl. 73-167.000.
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  - Turner, Clarence C., 4,682,624, Cl. 137-318.000.
- Ford, Michael A., to Perkin-Elmer Corporation, The. Interferometric optical path difference scanners and FT spectrophotometers incorporating them. 4,684,255, 8-4-87, Cl. 356-346.000.
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- Ford Microelectronics, Inc.: *See*—
  - Laude, David P.; and Noufer, Glenn E., 4,701,643, Cl. 307-450.000.
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  - Abbott, Edward H.; Erickson, Robert H.; and Horn, William F., 4,713,877, Cl. 29-596.000.
  - Ackerman, Allen D.; Perkey, Conrad G.; Martin, Robert A.; and Justusson, William M., 4,638,846, Cl. 164-55.100.
  - Allison, John E., 4,675,964, Cl. 29-156.70R.
  - Anderson, Robert L., 4,661,778, Cl. 324-380.000.
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  - Arciero, Carlo; and Mynuddin, Mohammed K., 4,643,269, Cl. 180-141.000.
  - Bailey, Wallace O., 4,638,836, Cl. 137-574.000.
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  - Bessette, Ramon L., 4,700,582, Cl. 74-409.000.
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  - Bostock, Philip G., 4,646,516, Cl. 60-295.000.
  - Burke, Michael J.; Pidsosny, Richard A.; and Lehner, Gerald J., 4,710,888, Cl. 364-561.000.
  - Cairns, Thomas M., 4,677,702, Cl. 7-107.000.
  - Cheung, Mo-Fung, 4,663,072, Cl. 252-182.000.
  - Choma, Michael A., 4,693,226, Cl. 123-568.000.
  - Cloke, Martin; Horton, Michael; Menne, Rudolf; and Stwiorok, Andreas, 4,706,622, Cl. 123-306.000.
  - Cook, Jeffrey A.; and Hamburg, Douglas R., 4,715,340, Cl. 123-406.000.
  - Crawford, Robert D.; Johnson, Wayne J.; Kimber, Theo, Jr.; Nolff, Douglas; Volk, Jack R.; and Franks, Donald C., 4,715,031, Cl. 370-85.000.
  - Crosbie, Gary M., 4,687,606, Cl. 264-8.000.
  - Dick, Heinz; and Lux, Johannes, 4,648,014, Cl. 362-346.000.
  - Dick, Heinz, 4,679,125, Cl. 362-66.000.
  - Dickie, Ray A.; and Qaderi, Saiyed B. A., 4,639,493, Cl. 525-113.000.
  - Dickirson, Gene D., 4,697,832, Cl. 285-319.000.
  - Dilay, Walter, 4,675,494, Cl. 219-91.210.
  - Dong, Yen O., 4,657,424, Cl. 403-46.000.
  - Duffy, James J., 4,714,413, Cl. 417-293.000.
  - Dyki, Joseph J., 4,714,437, Cl. 439-595.000.
  - Eggert, Ulrich, 4,693,144, Cl. 74-868.000.
  - Fluegge, Jerry H., 4,690,428, Cl. 280-697.000.
  - Ford, David M., 4,679,759, Cl. 248-562.000.
  - Frost, Derek, 4,694,789, Cl. 123-90.170.
  - Garrett, Roy J., 4,706,517, Cl. 74-665.00T.
  - George, Melvin J., 4,640,561, Cl. 339-17.00F.
  - Giachino, Joseph M.; and Kress, James W., 4,647,013, Cl. 251-331.000.
  - Giardini, Dante S., 4,646,885, Cl. 188-325.000.
  - Giardini, Dante S., 4,650,041, Cl. 188-264.00F.
  - Graef, Kurt; Axt, Egon; Wirtz, Hans-Peter; Lauscher, Friedrich; Potzsch, Werner; Korfer, Peter; Sastrarahardja, Paulus; Croonen, Werner; and Serf, Josef, 4,649,763, Cl. 74-763.000.
  - Grawi, Franklin L.; and Magnan, Michael B., 4,713,097, Cl. 55-276.000.
  - Habermann, Heinz P., 4,639,150, Cl. 384-536.000.
  - Hagenah, Frank, 4,667,578, Cl. 98-2.180.
  - Hamburg, Douglas R., 4,641,623, Cl. 123-518.000.
  - Hamburg, Douglas R., 4,664,087, Cl. 123-520.000.
  - Hamburg, Douglas R., 4,677,956, Cl. 123-520.000.
  - Hansen, Charles A., 4,712,445, Cl. 74-491.000.
  - Harris, Charles F., Jr.; and Coleman, James C., 4,712,341, Cl. 52-208.000.
  - Hartsock, Dale L., 4,649,806, Cl. 92-212.000.
  - Henken, Fritz, 4,648,423, Cl. 137-494.000.
  - Hoffman, David W.; and Kukla, Cassimer M., 4,683,758, Cl. 73-780.000.
  - Huang, Bernard; and Milenkovic, Veljko, 4,716,350, Cl. 318-568.000.
  - Hurten, Oskar; Vogt, Hans; and Stutenkemper, Paul, 4,682,812, Cl. 296-195.000.
  - Hurten, Oskar; and Vogt, Hans, 4,712,829, Cl. 296-203.000.
  - Janson, David A., 4,648,283, Cl. 74-477.000.
  - Johnson, Robert C.; Perry, David L.; and Peitsch, Bernd E., 4,634,971, Cl. 324-133.000.
  - Kovacs, Bela V.; and Nowicki, Roman M., 4,666,533, Cl. 148-2.000.
  - Lemieux, George E.; Lewicki, Reginald T.; and Clauss, Julius A., 4,638,686, Cl. 74-688.000.
  - Lewis, Idris; and Churchill, John, 4,715,645, Cl. 296-120.00R.
  - Leydorf, George F., Jr.; and Pulick, Michael A., 4,699,100, Cl. 123-193.0CH.
  - Leydorf, George F., Jr.; and Pulick, Michael A., 4,708,105, Cl. 123-193.0CH.
  - Mahr, Josef, 4,687,124, Cl. 224-42.240.
  - Marshall, James E., 4,704,090, Cl. 439-56.000.
  - Martin, Robert A.; and Heater, Thomas J., 4,640,333, Cl. 164-246.000.
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  - Mason, James L., 4,650,208, Cl. 280-661.000.
  - May, Kenneth W., 4,633,728, Cl. 74-476.000.
  - Meitzler, Allen H.; and Saloka, George S., 4,645,975, Cl. 315-82.000.
  - Meitzler, Allen H., 4,686,406, Cl. 310-322.000.
  - Mikkor, Mati, 4,701,424, Cl. 437-209.000.
  - Mikkor, Mati, 4,701,826, Cl. 361-283.000.
  - Mikola, James A., 4,647,132, Cl. 339-91.00L.
  - Moore, Thomas S., 4,648,492, Cl. 192-3.210.
  - Nielsen, Arnold D., 4,635,683, Cl. 137-625.650.
  - Nivi, Hossein; and Field, Nathaniel L., III, 4,688,528, Cl. 123-192.00B.
  - Novak, Robert F.; and Weber, Neill, 4,686,320, Cl. 136-239.000.
  - Novak, Robert F.; Schmatz, Duane J.; and Hunt, Thomas K., 4,714,798, Cl. 136-239.000.
  - Nuss, Sheldon E., 4,648,620, Cl. 280-689.000.
  - Otterstetter, Charles H.; Schowiak, Duane C.; and Stueckle, Paul, 4,714,179, Cl. 222-148.000.
  - Owen, Michael J.; Middleton, Victor; and Edwards, Kevin L., 4,650,620, Cl. 264-45.500.
  - Pakula, Benjamin J., 4,637,351, Cl. 123-25.00J.
  - Pardy, Ronald P., 4,708,028, Cl. 74-512.000.
  - Peterson, Lawrence D., 4,670,941, Cl. 16-332.000.
  - Pierce, Stanley L., 4,693,129, Cl. 74-333.000.
  - Pietryk, Erwin; and Rauthmann, Axel, 4,679,983, Cl. 415-152.00A.
  - Porter, Frederick J.; and Pidsosny, Richard A., 4,703,198, Cl. 307-473.000.
  - Puscasu, Boris, 4,638,291, Cl. 340-59.000.
  - Ramus, Kevin J.; and Youngs, John D., 4,654,067, Cl. 65-60.500.
  - Ramus, Kevin J., 4,668,270, Cl. 65-106.000.
  - Ransom, Keith C., 4,651,766, Cl. 137-116.300.
  - Ransom, Keith C., 4,675,135, Cl. 261-56.000.
  - Ransom, Keith C.; and Howitt, Henry G., 4,678,007, Cl. 137-625.660.
  - Rao, Vemulapalli D. N., 4,655,037, Cl. 60-274.000.
  - Rao, Vemulapalli D. N., 4,670,020, Cl. 44-57.000.
  - Reader, Michael W.; and Charles, John M., 4,669,287, Cl. 70-360.000.
  - Reichenbach, Thomas G., 4,641,856, Cl. 280-772.000.
  - Rumpel, Manfred, 4,714,270, Cl. 280-690.000.
  - Sale, Robert F.; and Wells, Wayne E., 4,684,110, Cl. 267-52.000.
  - Scadding, John R., 4,706,615, Cl. 123-41.010.
  - Schmidt, Vinzenz, 4,706,514, Cl. 74-476.000.
  - Schnizlein, Melvern E., 4,643,134, Cl. 123-41.100.
  - Schumacher, Berthold W., 4,644,126, Cl. 219-121.0ED.
  - Simko, Aladar O., 4,682,575, Cl. 123-90.440.
  - Stocker, Raymond, 4,658,668, Cl. 74-501.50R.
  - Stocker, Raymond, 4,669,330, Cl. 74-501.50R.
  - Stocker, Raymond, 4,715,738, Cl. 403-24.000.
  - Stockton, Thomas R., 4,713,041, Cl. 474-28.000.
  - Street, Thomas R., Jr., 4,635,766, Cl. 188-317.000.
  - Svab, Eugen, 4,649,773, Cl. 74-730.000.
  - Tamagne, Henry J., 4,635,353, Cl. 29-602.00R.
  - Tamagne, Henry J., 4,677,946, Cl. 123-146.50A.
  - Tannenlaufer, Gerd, 4,638,679, Cl. 74-501.00R.
  - Theodore, Ares N.; and Killgoar, Paul C., Jr., 4,645,791, Cl. 524-490.000.
  - Thomas, Arthur, 4,640,014, Cl. 33-143.00L.
  - Thorn, John E.; and Burns, William W., 4,679,698, Cl. 220-86.00R.
  - Timte, Frank W., 4,633,738, Cl. 74-869.000.

Tischer, Ragnar P.; Winterbottom, Walter L.; and Wroblowa, Halina S., 4,649,022, Cl. 419-24.000.
Van Gelderen, Glenn P., 4,655,475, Cl. 280-777.000.
Vanselous, Joseph S., 4,637,281, Cl. 74-869.000.
Van Selous, Joseph S., 4,665,770, Cl. 74-733.000.
Volk, Jack R.; and Piatkowski, Philip, Jr., 4,667,187, Cl. 340-641.000.
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Vrabel, Robert J.; Vajgart, Jeffery L.; Staszel, Lawrence E.; Ewald, Henry J.; Haygood, Norman M., Jr.; and Misewicz, Leon M., 4,678,975, Cl. 318-266.000.
Wade, Wallace R., 4,641,496, Cl. 60-274.000.
Wade, Wallace R., 4,665,881, Cl. 123-557.000.
Wade, Wallace R.; and Rao, Vemulapalli D. N., 4,686,827, Cl. 60-286.000.
Watanabe, Shunso F., 4,683,992, Cl. 188-299.000.
Wilhelmy, Egon, 4,704,916, Cl. 74-475.000.
Williams, Robert M.; and Beckwith, Elaine C., 4,640,826, Cl. 423-263.000.
Wineland, Richard J.; Nichols, Roberta J.; and Clinton, Eric L., 4,703,732, Cl. 123-416.000.
Wineland, Richard J.; Nichols, Roberta J.; and Clinton, Eric L., 4,706,629, Cl. 123-478.000.
Wineland, Richard J.; Nichols, Roberta J.; and Clinton, Eric L., 4,706,630, Cl. 123-478.000.
Zanardelli, Vance P., 4,652,745, Cl. 250-227.000.
Zurilla, Ronald W.; and Huff, Joan, 4,681,641, Cl. 148-6.15Z.

Ford, Neville: *See—*
Werner, Lincoln H.; and Ford, Neville, 4,634,713, Cl. 514-392.000.

Ford, Norman C., Jr.; and Ware, Bennie R., to Langley-Ford Instruments a division of Coulter Electronics of N.E. Electrophoretic light scattering with plural reference beams, apparatus and method. 4,648,715, 3-10-87, Cl. 356-344.000.

Ford, Ralph W. Underwater self-contained cleaning assembly. 4,651,376, 3-24-87, Cl. 15-1.700.

Ford, Richard L. Bow making form. 4,651,908, 3-24-87, Cl. 223-46.000.

Ford, Robert E. Mineshaft closures. 4,685,830, 8-11-87, Cl. 405-133.000.

Ford, Roger S.: *See—*
Edejer, Merardo P.; Ford, Roger S.; Jailor, John J.; and Jens, Michael J., 4,692,754, Cl. 340-671.000.

Ford, Thomas E. Container for retaining paint. 4,638,909, 1-27-87, Cl. 206-1.700.

Ford, Victoria L.; and Morgan, Bryan J., to Pegasus Airwave Limited. Air supply and control apparatus for inflatable mattress. 4,711,275, 12-8-87, Cl. 141-95.000.

Ford, Warren T.: *See—*
Mohanraj, Subramaniam; and Ford, Warren T., 4,713,423, Cl. 525-351.000.

Ford, William G.; and Hollenbeak, Keith H., to Halliburton Company. Composition and method for reducing sludging during the acidizing of formations containing sludging crude oils. 4,663,059, 5-5-87, Cl. 252-8.55C.

Ford, William G. F.: *See—*
Dill, Walter R.; Walker, Michael L.; and Ford, William G. F., 4,679,631, Cl. 166-307.000.
Walker, Michael L.; Ford, William G. F.; Dill, Walter R.; and Gdanski, Ricky D., 4,683,954, Cl. 166-307.000.

Fordyce, Donald E. Roaster frame or rack lifter. 4,648,379, 3-10-87, Cl. 126-337.00R.

Fordyce, Douglas, to Lewis, John R.; and Ecquarican Enterprises, Inc. Device for indicating low tire pressure. 4,646,673, 3-3-87, Cl. 116-34.00R.

Fordyce, William A.: *See—*
Stevens, James C.; and Fordyce, William A., 4,695,669, Cl. 585-511.000.

Fore-Sight Golf, Inc.: *See—*
Kovalchek, John G., 4,712,797, Cl. 273-163.00R.

Fore, William M.; and Caskey, Kenneth D., to Halliburton Company. Wireline set/tubing retrieve packer type bridge plug. 4,648,446, 3-10-87, Cl. 166-123.000.

Forehand, Gilbert H.; and Lynch, Michael J., to Halliburton Company. Apparatus and method for interfacing a transducer. 4,675,649, 6-23-87, Cl. 340-347.0AD.

Forehand, Gilbert H.; Lynch, Michael J.; Duncan, Richard L.; Tilghman, Stephen E.; and Penn, Jack C., to Halliburton Company. Power-conserving self-contained downhole gauge system. 4,709,234, 11-24-87, Cl. 340-856.000.

Forehand, Gilbert H.: *See—*
Duncan, Richard L.; Lynch, Michael J.; Forehand, Gilbert H.; White, Billy W.; and Richardson, J. Mark, 4,663,628, Cl. 340-853.000.
Lynch, Michael J.; Forehand, Gilbert H.; Duncan, Richard L.; Tilghman, Stephen E.; and Penn, Jack C., 4,665,398, Cl. 340-853.000.

Forejt, Antonin: *See—*
Neufuss, Karel; Macku, Ales; Forejt, Antonin; and Kasik, Pavel, 4,707,379, Cl. 427-34.000.

Forella, Guy: *See—*
Courjaret, Francois; Del Fabbro, Gilbert; Devic, Jean-Noel; Divoux, Michel; Forella, Guy; Hamant, Jean-Pierre; Tubiana, Dominique; and Pavie, Claude, 4,701,094, Cl. 414-330.000.

Foreman, Arnal B., Jr.: *See—*
Bishop, Thomas R.; Peil, Archie W.; and Foreman, Arnal B., Jr., 4,648,447, Cl. 166-173.000.

Foreman, Dennis. Tandem water ski towing device. 4,685,413, 8-11-87, Cl. 114-253.000.

Foreman, Fred R.: *See—*
Nayler, Douglas W. J.; Foreman, Fred R.; and Childs, Willard D., 4,688,764, Cl. 254-277.000.

Foreman, Howard R. Holder for shotgun pattern paper. 4,637,615, 1-20-87, Cl. 273-407.000.

Foreman, Paul B.: *See—*
Iovine, Carmine P.; Shih, Yen-Jer; and Foreman, Paul B., 4,668,730, Cl. 524-460.000.
Walker, James L.; and Foreman, Paul B., 4,716,194, Cl. 524-806.000.

Foreman, Robert W. Solution heat treatment for aluminum alloys. 4,647,318, 3-3-87, Cl. 148-20.000.

Foreman, Roscoe C. Apparatus for sharpening a plurality of tools. 4,653,232, 3-31-87, Cl. 51-46.000.

Foresman, Ralph E.; and Harries, Kerry J., to Motorola, Inc. In-line safing and arming apparatus. 4,651,646, 3-24-87, Cl. 102-208.000.

Foresman, Robert R. Life-saving device. 4,701,145, 10-20-87, Cl. 441-131.000.

Forest Engineering Research Institute of Canada: *See—*
Mellgren, Per-Gustaf, 4,639,186, Cl. 414-734.000.
Mellgren, Per-Gustaf, 4,653,555, Cl. 144-3.00D.

Forest Grove Industries, Inc.: *See—*
Laib, Donald L., 4,714,124, Cl. 180-168.000.

Forest, Jerry W.: *See—*
Kowalewski, Janusz J.; Forest, Jerry W.; Christie, Alan E.; and Patrick, Paul H., 4,646,276, Cl. 367-139.000.

Forest-Line: *See—*
Goulot, Etienne; and Kwapisz, Jean, 4,657,453, Cl. 409-216.000.

Forest Safety Products, Inc.: *See—*
Forrest, William E.; Glabe, David H.; and Wegman, Michael K., 4,703,831, Cl. 182-3.000.

Forester, David R.; and Reid, Dwight K., to Betz Laboratories, Inc. Composition and method for coke retardant during pyrolytic hydrocarbon processing. 4,680,421, 7-14-87, Cl. 585-648.000.

Forester, David R.: *See—*
Reid, Dwight K.; and Forester, David R., 4,663,018, Cl. 20 48.00R.

Forester, George V.; Mortimer, Alan J.; and Roy, Orest Z., to Canadian Patents and Development Limited. Method and device for enhancement of cardiac contractility. 4,651,716, 3-24-87, Cl. 128-1.00D.

Forestier, Serge: *See—*
Grollier, Jean F.; Lang, Gerard; Forestier, Serge; and Rosenbaum, Georges, 4,656,029, Cl. 424-47.000.
Jacquet, Bernard; Lang, Gerard; Malaval, Alain; Forestier, Serge; and Le Trung, Do, 4,702,906, Cl. 424-70.000.
Lang, Gerard; Forestier, Serge; and LaGrange, Alain, 4,710,5 Cl. 560-51.000.

Forestiere, Alain: *See—*
Courty, Philippe; Durand, Daniel; Forestiere, Alain; and Grandvillet, Pierre, 4,675,343, Cl. 518-713.000.
Provin, Gerard; Forestiere, Alain; and Commereuc, Dominique, 4,716,239, Cl. 556-147.000.

Foret, Claude H. Dual pump for two separate fluids with means for heat exchange between the fluids. 4,715,435, 12-29-87, Cl. 165-120.000.

Foret, Regis, to Technique du Verre Tisse S.A. Tubular material based on a fabric-reinforced resin, and a bicycle or similar vehicle frame constructed with such a material. 4,657,795, 4-14-87, Cl. 428-36.000.

Forgac, John M.; and Hoekstra, George R., to Amoco Corporation; and Chevron U.S.A., Inc. In situ retorting of oil shale with pulsed water purge. 4,637,464, 1-20-87, Cl. 166-261.000.

Forgacs, Lilla: *See—*
Keve, Tibor; Zsadon, Bela; Fekete, Gyorgy; Galambos, Janos; Barta nee Bukovecz, Margit; Szporny, Laszlo; Forgacs, Lilla; Kiraly, Arpad; Soos, Gyongyver; Kiss, Bela; and Zajer nee Balazs, Maria, 4,680,397, Cl. 546-51.000.

Forge, Charles O., to Boschert Inc. Apparatus for maintaining constant frequency in a DC to square wave inverter. 4,638,420, 1-20-87, Cl. 363-132.000.

Forgeng, William D.: *See—*
Brown, Harry J.; Forgeng, William D.; and Brown, Charles M., 4,650,722, Cl. 428-614.000.

Forges, Robert: *See—*
Abbes, Claude; Rouaud, Christian; Valla, Jean; Forges, Robert; and de Villepoix, Raymond, 4,640,530, Cl. 285-18.000.

Forges Stephanoises S.A.: *See—*
Heyraud, Georges, 4,641,538, Cl. 73-862.260.
Heyraud, Georges, 4,669,319, Cl. 73-962.230.

Forgione, Peter S.; and Singh, Balwant, to American Cyanamid Company. Beta-hydroxyalkylcarbamyl-methylated aminotrizines and curable compositions containing the same. 4,708,984, 11-24-87, Cl. 525-127.000.

Forgione, Peter S.; and Singh, Balwant, to American Cyanamid Company. Alkylcarbamylmethylated amino-triazine crosslinking agents and curable compositions containing the same. 4,710,542, 12-1-87, Cl. 525-127.000.

Forgo, Imre; Manso, Elvio; Gruber, Urs; and Huwyler, Rene, to Ciba-Geigy Corporation. Process for the preparation of prepregs, and the reinforced composite materials which can be obtained therewith. 4,666,954, 5-19-87, Cl. 522-83.000.

Forintos, Laszlo. Surgical instrument especially for performing neurosurgical operations. 4,686,981, 8-18-87, Cl. 128-303.170.

Forjas Taurus S/A: *See—*
Bornancini, Jose C. M., 4,651,432, Cl. 33-233.000.

ork, Inc.: See—
  Rapp, Edward J., 4,713,787, Cl. 364-717.000.

ork, Werner: See—
  Blickle, Karl; Fork, Werner; and Wunder, Hermann, 4,664,636, Cl. 440-52.000.

orkel, Werner: See—
  Schiessle, Edmund; and Forkel, Werner, 4,638,659, Cl. 73-119.00A.

orkish, Robert L. Anti-burglar window bars. 4,633,612, 1-6-87, Cl. 49-55.000.

orkner, John F., to Baxter Travenol Laboratories, Inc. Scanning microtelescope for surgical applications. 4,697,577, 10-6-87, Cl. 128-6.000.

orman, Craig E.: See—
  Borg, Kevin E.; and Forman, Craig E., 4,635,275, Cl. 375-8.000.

Fo[illegible]n, Harold. Label resealing container. 4,679,693, 7-14-87, Cl. 206-6[illegible]0.000.

orman, Ralph: See—
  Ebihara, Ben T.; and Forman, Ralph, 4,687,964, Cl. 313-237.000.

rmanek, Frank J., to Combustion Engineering, Inc. Interim transfer canister for consolidating nuclear fuel rods. 4,650,641, 3-17-87, Cl. 376-272.000.

ormanek, Frank J., to Combustion Engineering, Inc. Tool for pulling multiple rods from a nuclear fuel assembly. 4,687,245, 8-18-87, Cl. 294-87.100.

Formanek, Helmut; and Weyl, Reinhard, to Siemens Aktiengesellschaft. Method for the orientation of a liquid crystalline substance relative to a substrate. 4,647,478, 3-3-87, Cl. 427-164.000.

Formation Damage Removal Corporation: See—
  Eastlund, Bernard J.; Schmitt, Kenneth J.; and Bass, Ronald M., 4,678,034, Cl. 166-248.000.

Formax, Inc.: See—
  Sandberg, Glenn A., 4,697,308, Cl. 17-32.000.

Formaz, Jerome: See—
  Ramm, A. Jurgen; and Formaz, Jerome, 4,644,804, Cl. 73-862.590.

Forme, Jacques: See—
  Arnoux, Daniel; Genter, Claude; Anton, Christian; and Forme, Jacques, 4,716,412, Cl. 340-753.000.

Formenti, Giuseppe: See—
  Ruscelli, Emilio; Carrera, Cesare; and Formenti, Giuseppe, 4,709,739, Cl. 152-453.000.

Formers of Houston, Inc.: See—
  Dominguez, Ben, 4,711,068, Cl. 53-551.000.

Formhals, Charles: See—
  Tarozzi, Richard A.; and Formhals, Charles, 4,648,512, Cl. 206-542.000.
  Tarozzi, Richard A.; and Formhals, Charles, 4,667,484, Cl. 62-371.000.

Formica Corporation: See—
  Jaisle, Richard F.; Mollmann, Henry C.; Albers, Martha J.; and Burgess, James H., 4,636,443, Cl. 428-481.000.
  Taylor, Arthur R.; and Wulfekotter, Dudley, 4,713,299, Cl. 428-526.000.
  Williams, Robert D.; and Struble, Bud G., 4,652,596, Cl. 523-348.000.

Forming Industry, Inc.: See—
  Tanaka, Akira, 4,635,539, Cl. 99-421.00H.

Formosa, David J. Device for stopping air leakage through fireplace flues. 4,649,896, 3-17-87, Cl. 126-319.000.

Formwalt, Charles W., Jr.: See—
  McKee, Kevin D.; and Formwalt, Charles W., Jr., 4,638,720, Cl. 91-522.000.

Fornasari, Paolo, to Eltek S.p.A. Thermally-activated device for creating considerable power. 4,691,516, 9-8-87, Cl. 60-527.000.

Fornasari, Paolo, to Eltek S.p.A. Thermoelectric valve for channeling refrigerant gases into different tubes in refrigeration devices. 4,711,270, 12-8-87, Cl. 137-625.500.

Forner, Klaus: See—
  Henklein, Peter; Becker, Manfred; Buttner, Werner; Loth, Fritz; Dautzenberg, Horts; Forner, Klaus; Dolling, Rudolf; Graul, Karl-Heinz; Halatsch, Wolf-Rainer; and Rupprich, Christian, 4,714,768, Cl. 548-435.000.

Forner, Siegfried; Katscher, Erich; and Ring, Stefan, to Kraftwerk Union Aktiengesellschaft. Repair device for a reactor pressure vessel. 4,639,351, 1-27-87, Cl. 376-310.000.

Forner, Siegfried; and Gebald, Georg, to Kraftwerk Union Aktiengesellschaft. Machining tool for pipes. 4,657,450, 4-14-87, Cl. 409-143.000.

Forner, Siegfried: See—
  Gugel, Siegfried; Pellkofer, Dieter; and Forner, Siegfried, 4,698,474, Cl. 219-60.00A.
  Weber, Robert; Bieselt, Roland; Forner, Siegfried; and Mechtold, Helmut, 4,689,863, Cl. 29-33.00T.

Forneris, Alexandre, to Hutchinson S.A. Wheel with locking sleeve. 4,705,089, 11-10-87, Cl. 152-400.000.

Forney, Edgar W., Jr.; and Hogendobler, Richard S., to AMP Incorporated. Coaxial connector with interlocked dielectric body. 4,650,271, 3-17-87, Cl. 339-177.00R.

Forney, Edgar W., Jr.; and Hogendobler, Richard S., to AMP Incorporated. Coaxial connector with improved retention of a center contact. 4,662,703, 5-5-87, Cl. 339-177.00R.

Forney, Edgar W., Jr.; and Hogendobler, Richard S., to AMP Incorporated. Method of constructing a coaxial connector. 4,712,296, 12-15-87, Cl. 29-828.000.

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Forni, Luigi, to Pomini Farrel S.p.A. Rolling stand with device for angularly adjusting the roll position. 4,653,302, 3-31-87, Cl. 72-195.000.

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  Padget, John C.; and Forrester, James T., deceased, 4,686,278, Cl. 528-495.000.

Forrester, John S.: See—
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Fors, Jan: See—
  Turunen, Olli T.; Huttenen, Jouko; Selin, Johan-Fredrik; Fors, Jan; and Eklund, Vidar, 4,639,514, Cl. 536-30.000.
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Hogberg, Kjell T.; and Forsberg, K. Torsten, 4,655,670, Cl. 414-458.000.

Forsch, Henry A.: *See—*
Rusche, Gerald A.; and Forsch, Henry A., 4,687,967, Cl. 313-477.00R.

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Forsheda AB: *See—*
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  - Salani, Steven J.; and Moffatt, Jeffrey C., 4,686,880, Cl. 84-1.010.
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  - Pleska, John C.; and Mock, Gerald L., 4,689,813, Cl. 379-80.000.
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  - Davis, Wayne S.; Defibaugh, George R.; and Fortuna, Jon A., 4,648,665, Cl. 339-14.00R.
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  - Vernay, Pierre, 4,690,196, Cl. 164-58.100.
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  - Withers, Christopher J.; and Pattle, David W., 4,673,434, Cl. 75-61.000.
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  - Meredith, Jeffrey F., 4,675,879, Cl. 373-155.000.
- Fosh, Brian F., to Parker Graphics Limited. Vacuum contact system. 4,669,870, 6-2-87, Cl. 355-91.000.
- Foshee, William C.: *See—*
  - Easterly, James P., Jr.; Foshee, William C.; and Lamphere, Jack C., 4,676,913, Cl. 210-734.000.
- Foshee, William R., to Best Lock Corporation. Cylinder anchor. 4,633,690, 1-6-87, Cl. 70-451.000.
- Foshee, William R.; and McCrory, John P., to Best Lock Corporation. Pick-resistant core. 4,655,063, 4-7-87, Cl. 70-419.000.
- Foshee, William R., to Best Lock Corporation. Cabinet lock. 4,663,839, 5-12-87, Cl. 29-804.000.
- Foshee, William R., to Best Lock Corporation. Frangible spindle. 4,667,994, 5-26-87, Cl. 292-358.000.
- Foshee, William R.: *See—*
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- Fosler, Robert C.: *See—*
  - Wedel, Gregory L.; Fosler, Robert C.; and Garvin, Stanley P., Jr., 4,700,493, Cl. 34-48.000.
- Fosnacht, Donald R.: *See—*
  - Bugajski, Frank H.; and Fosnacht, Donald R., 4,653,733, Cl. 266-275.000.
- Foss, Art J.: *See—*
  - Crosby, Michael A.; and Foss, Art J., 4,695,262, Cl. 446-236.000.
- Foss, George D.: *See—*
  - Burguette, Mario D.; and Foss, George D., 4,671,999, Cl. 428-422.000.
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- Foss, Janet M. P.; Foss, John; Brooks, Christopher G.; and Ridgely, Myron H., to Foss, Janet Mary Penrose. Portable, foldable and convertible luggage trolley. 4,637,626, 1-20-87, Cl. 280-655.000.
- Foss, Janet Mary Penrose: *See—*
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- Foss, Leonard: *See—*
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- Foss Manufacturing Co., Inc.: *See—*
  - Goodwin, Robert F., 4,673,616, Cl. 428-289.000.
  - Murphy, Richard; and Capron, John, 4,673,615, Cl. 428-286.000.
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Foss, Warren M., to Pall Corporation. Porous, fibrous structures with thermoplastic fluorocarbon coating and method of making. 4,693,928, 9-15-87, Cl. 428-236.000.
Fossas, Arturo; and Ruiz, Orlando. Distributed privacy oriented telephone extension system. 4,703,499, 10-27-87, Cl. 379-194.000.
Fossati, Antonio, to SA FO SA. S.r.l. Spray atomizer for perfumes or the like linked products. 4,662,541, 5-5-87, Cl. 222-135.000.
Fossati, Giorgio; Terry, Harold; and Manco, Giuseppe, to Otis Elevator Company. Pressure relieving linear motion valve. 4,674,527, 6-23-87, Cl. 137-115.000.
Fossati, Giorgio; Terry, Harold; and Manco, Giuseppe, to Otis Elevator Company. Pressure-referenced programmed flow control in a hydraulic valve. 4,700,748, 10-20-87, Cl. 137-877.000.
Fossati, Paolo; and Melioni, Paolo, to Honeywell Information Systems Italia. Single error correction circuit for system memory. 4,646,304, 2-24-87, Cl. 371-38.000.
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  Manservisi, Renato, and Fossi, Mario, 4,702,730, Cl. 493-56.000.
Fosslien, Egil, to Fosslien, Egil. Fluid sampling apparatus. 4,691,580, 9-8-87, Cl. 73-864.840.
Fossum, Eric R., to Hughes Aircraft Company. Charge coupled device differencer. 4,686,648, 8-11-87, Cl. 364-862.000.
Foster, Allan B.; Jarman, Michael; and Kwan, Chui-Sheung, to National Research Development Corporation. Glutarimide derivatives for treating oestrogen-dependent tumors. 4,668,689, 5-26-87, Cl. 514-318.000.
Foster, Bennie G. Automatic energy saving vent system for air conditioning systems and heating systems. 4,686,892, 8-18-87, Cl. 98-107.000.
Foster, Clark B.: *See—*
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  Haber, Terry M.; Foster, Clark B.; and Lewis, John A., Jr., 4,710,179, Cl. 604-211.000.
Foster, Daniel F. Computer mounting stand. 4,657,214, 4-14-87, Cl. 248-176.000.
Foster, David C.: *See—*
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Foster, Diane: *See—*
  Foster, Dwight R., and Foster, Diane, 4,634,245, Cl. 353-95.000.
  Foster, Dwight R.; and Foster, Diane, 4,662,091, Cl. 40-19.000.
Foster, Donald A., to Polaroid Corporation. Bubble injection dissolved gas measurement method and apparatus. 4,681,601, 7-21-87, Cl. 55-18.000.
Foster, Donald D., and Moore, David G., to Realex Corporation. Orifice cover slide actuator lock for viscous product dispenser. 4,679,712, 7-14-87, Cl. 222-384.000.
Foster, Donald D.; and Hills, Robert N., to Realex Corporation. Shipping seal for viscous product dispenser. 4,684,043, 8-4-87, Cl. 222-386.000.
Foster, Donald D., to Realex Corporation. Viscous product dispenser having externally located, dispensed product shearing outlet valve provided with lost-motion action. 4,684,044, 8-4-87, Cl. 222-386.000
Foster, Donald D.; and Nelson, Phil L., to Realex Corporation. Unit dose liquid dispenser having precise dosage capabilities. 4,684,046, 8-4-87, Cl. 222-451.000.
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Foster, J. Marlo; and Pierce, Fred C., II. Power driving apparatus. 4,669,552, 6-2-87, Cl. 173-117.000.
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Foster, Joseph C., Jr., and Bilek, Andrew G., to United States of Ame ica, Air Force. Auxiliary booster. 4,711,177, 12-8-87, Cl. 102-204.00
Foster, Joseph S., to Pro-Staff Fuels Ltd. Dual fuel engines. 4,679,5 7-14-87, Cl. 123-525.000.
Foster, L. Dale: *See—*
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Foster, Marcus L.: *See—*
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Foster, Mark H.: *See—*
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Foster, Mark J., to Zenith Electronics Corporation. Video display wi improved smooth scrolling. 4,714,919, 12-22-87, Cl. 340-726.00
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  Harvey, Andrew C.; Ribich, William A.; Marinaccio, Paul J. an Sawaf, Bernard E., 4,709,453, Cl. 24-442.000.
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Foster, Randy C., to Dayco Products, Inc. Hose coupling and metho of making the same. 4,653,779, 3-31-87, Cl. 285-256.000.
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Foster, Raymond O., to Foster Research Corporation. Indicator an test device for detecting occult blood. 4,676,950, 6-30-87, C 422-56.000.
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  Hahn, Lawrence R., 4,694,141, Cl. 219-147.000.

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  Fowler, Stanley, 4,653,398, Cl. 100-233.000.

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  Young, Chung C.; Coleman, Robert L.; Sullivan, Sheila M. Grimes, John F.; Baumeister, Ferdnand; MacIndoe, Rober Catalano, Lou; Coppola, Pat; Spaziani, Fred; Rodomista, Ge and Fowler, James E., 4,686,479, Cl. 324-439.000.

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Fowler, Keith A.: *See—*
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Fowler, Michael J.: *See—*
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Fowler, Victor L.: *See—*
  Haas, Paul A.; Fowler, Victor L.; and Lloyd, Milton H., 4,663,0 Cl. 264-0.500.

Fowler, Wayne D., to Adams-Russell Company, Inc. Low SWR hi power multiple waveguide junction. 4,642,586, 2-10-87, C 333-122.000.

Fowlkes, Robert L.: *See—*
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Fowlkes, William Y.: *See—*
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Fowlston, Kenneth B. One piece flexible hinge having engaging ridge and a rib. 4,670,938, 6-9-87, Cl. 16-225.000.

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Fox, Allan J. Seal for ram type blowout preventor. 4,703,938, 11-3- Cl. 277-73.000.

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Fox, Charles, to Showscan Film Corporation. Electronic projecto 4,697,896, 10-6-87, Cl. 352-180.000.

Fox, Charles H.: *See—*
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Fox, Cheryl: *See—*
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Fox, David K., to Railway Equipment Company. Extensible railroad grade crossing gate arm. 4,666,108, 5-19-87, Cl. 246-125.000.

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Fox, Duke. Porting system for two cycle internal combustion engines. 4,638,770, 1-27-87, Cl. 123-65.00P.

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- Watkins, Bruce J.; Regan, Albert M.; Crager, Bruce L.; Fox, Gary L., and Houlgrave, Robert C., 4,648,747, Cl. 405-195.000.

Fox, Harvey Z. Feeder. 4,672,917, 6-16-87, Cl. 119-52.0AF.

Fox Industries Incorporated: *See—*
- Weir, Donald H.; Frederick, Stanley H.; Hotaling, Robert A.; and Robol, Ronald B., 4,661,247, Cl. 210-97.000.

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- Wickham, John L.; Fox, Jeffrey D.; and Miller, Ross C., 4,697,318, Cl. 29-33.00P.
- Wickham, John L.; and Fox, Jeffrey D., 4,697,799, Cl. 269-32.000.

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- Blank, Hans G.; and Fox, Jeffrey R., 4,638,246, Cl. 324-73.00R.

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- O'Keefe, Michael; and Fox, John R., 4,640,207, Cl. 112-236.000.

Fox, Kenneth A.: *See—*
- Weiler, Gerhard H.; Anderson, Paul A.; and Fox, Kenneth A., 4,707,966, Cl. 53-410.000.

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- Hanson, David W.; Koehn, Richard R.; Nash, Richard C.; and Fox, Lonnie G., 4,644,727, Cl. 52-687.000.

Fox, Mark S.: *See—*
- Kemper, Christian T.; Lowenfeld, Simon; and Fox, Mark S., 4,642,782, Cl. 364-550.000.

Fox, Moroni, Sr.; and Fox, Dana G. Hybrid water bed mattress. 4,713,852, 12-22-87, Cl. 5-451.000.

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- Sullivan, James B., and Fox, Richard B., 4,674,204, Cl. 36-44.000.

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Fox, Robert E.; and Hubbard, Bruce L., to Deere & Company. Air system monitor for a cotton harvester. 4,635,047, 1-6-87, Cl. 340-684.000.

Fox, Robert E.: *See—*
- Hubbard, Bruce L.; McConnell, Kenneth C.; and Fox, Robert E. 4,662,160, Cl. 56-16.600.

Fox, Robert J., to Barnes Drill Co. Fixed filter drum and movable scraper. 4,673,502, 6-16-87, Cl. 210-413.000.

Fox, Roger H.: *See—*
- Gardner, Arthur M. N.; and Fox, Roger H., 4,696,289, Cl. 128-64.000.
- Gardner, Arthur M. N.; and Fox, Roger H., 4,702,232, Cl. 128-64.000.

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- Eisenhawer, Stephen; Mulac, Anthony J.; Donaldson, A. Burl; and Fox, Ronald L., 4,648,835, Cl. 431-4.000.

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Fox, Steve A., to Normag Corporation. Extruder drivingly connected to gear pump. 4,642,040, 2-10-87, Cl. 425-204.000.

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Fox, Trevor R.: *See—*
- O'Connor, Stuart; Bell, Donald; Fox, Trevor R.; and Townsend, Paul, 4,716,408, Cl. 340-825.500.

Fox, William D.; and Mereness, William M., to Senmed, Inc. Disposable stapler. 4,648,542, 3-10-87, Cl. 227-19.000.

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- Blanchard, Robert L., 4,716,536, Cl. 364-571.000.
- Bristol, Edgar H., 4,669,097, Cl. 375-122.000.
- Flanagan, Allan L.; and Richardson, David A., 4,658,348, Cl. 364-146.000.
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- Gilby, Anthony C., and Ihnat, Dale E., 4,713,540, Cl. 250-231.00R.
- Lake, Harold; and Grandmont, Paul E., 4,666,818, Cl. 430-256.000.
- Nudd, Howard W., Jr.; and De Moura, David N., 4,693,121, Cl. 73-706.000.
- Olsen, Everett O.; Gilby, Anthony C.; Chitty, Gordon W.; and Westcott, Vernon C., 4,669,316, Cl. 73-702.000.
- Sgourakes, George E., 4,638,656, Cl. 73-4.00R.
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- Zavracky, Paul M., and Morrison, Richard H., Jr., 4,674,180, Cl. 29-622.000.

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- Kubiak, Robert E., 4,700,807, Cl. 182-92.000.
- Kubiak, Robert E., 4,708,221, Cl. 182-187.000.

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Foxx, Mary E.: *See—*
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Foy, Michael W. Apparatus for attaching sail-board boom to mast. 4,696,249, 9-29-87, Cl. 114-99.000.

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- Paulus, Manfred; and Fromel, Norbert, 4,687,053, Cl. 165-133.000.

Fr. W. Schnutz GmbH & Co: *See—*
- Petri, Otto; Baeumer, Werner; and Ohrendorf, Dieter, 4,698,990, Cl. 72-21.000.

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- McLeod, Paul S.; Cape, John A.; Fraas, Lewis M.; and Partain, Larry D., 4,658,086, Cl. 136-249.000.

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- Lee, James, 4,638,884, Cl. 181-141.000.

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Fragala, Anthony R.: *See—*

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Beuneche, Daniel; Mauvieux, Christian; and Amiet, Pierre, 4,681,730, Cl. 376-252.000.

Cloue, Jean-Marc, 4,699,757, Cl. 376-412.000.

Dehon, Claude; and Kolmayer, Andre, 4,649,020, Cl. 376-419.000.

Denizou, Jean-Pierre, 4,714,582, Cl. 376-233.000.

Gravelle, Alain, 4,684,493, Cl. 376-252.000.

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Puccinelli, Robert; and Fraisse, Didier, 4,644,438, Cl. 361-75.000.

Fraleux, Jean; Hennion, Christine; Mora, Marie H.; and Ploix, Jean L., to Thomson-CSF. Picture taking tube with pyroelectric target and a process for determining the axes of least expansion of the target. 4,643,689, 2-17-87, Cl. 445-3.000.

Fraley, Walter C., to Edwards Manufacturing, Inc. Multi-screen video gaming device and method. 4,712,799, 12-15-87, Cl. 273-138.00A.

Fralick, Ilo. Ice fishing tip-up. 4,685,240, 8-11-87, Cl. 43-17.000.

Fralick, William L.: *See—*

Pensabene, Saverio F.; West, Jon K.; Leclair, Robert A.; Van Conant, Carl F.; Catotti, Arthur J.; and Fralick, William L., 4,686,013, Cl. 204-2.100.

Fram, Jerry. Slitting and dicing machine for fiberglass mat and mats of other brittle abrasive fibers. 4,638,934, 1-27-87, Cl. 225-97.000.

Framafer: *See—*

Mohr, Pierre; and Mohr, Gerard, 4,635,557, Cl. 104-7.200.

Framatome: *See—*

Bianchi, Claude; Fournier, Ives; and Jacquier, Paul, 4,706,356, Cl. 29-157.400.

Bianchi, Claude; Fournier, Yves; and Jacquien, Paul, 4,713,882, Cl. 29-727.000.

Dagard, Philippe; and Riviere, Jacques, 4,699,755, Cl. 252-631.000.

Desfontaines, Guy; and Le Helloco, Michel, 4,708,843, Cl. 376-219.000.

Frizot, Alain; Cadaureille, Gerard; Lalere, Jean-Christophe; and Machuron, Jean-Yves, 4,694,585, Cl. 33-502.000.

Frizot, Alain; Cadaureille, Gerard; Lalere, Jean-Christophe; and Machuron, Jean-Yves, 4,696,786, Cl. 376-245.000.

Frizot, Alain; Cadaureille, Gerard; Lalere, Jean-Christophe; and Machuron, Jean-Yves, 4,704,801, Cl. 33-502.000.

Goyau, Gilles; and Rimaire, Jean-Claude, 4,646,985, Cl. 242-54.00R.

Holcblat, Alain H.; Sundheimer, Patrick; and Pascal, Yves, 4,648,354, Cl. 122-32.000.

Jacquot, Alain; and Charpentier, Jacques, 4,648,294, Cl. 82-4.00R.

Leclercq, Joseph, 4,655,990, Cl. 376-225.000.

Lesaulnier, Guy; and Savary, Fernand, 4,696,783, Cl. 376-228.000.

Morin, Jean-Xavier, 4,683,840, Cl. 122-4.00D.

Peletan, Rene, 4,640,811, Cl. 376-228.000.

Sevelinge, Gerard, 4,682,739, Cl. 241-275.000.

Framatome & Cie: *See—*

Alibran, Patrice; Millot, Jean-Paul; and Desfontaines, Guy, 4,701,299, Cl. 376-302.000.

Collombet, Michel, 4,652,815, Cl. 324-73.00R.

Courcoux, Alain; and Merlin, Jacques, 4,646,556, Cl. 73-4.00R.

Coussau, Jean, 4,650,638, Cl. 376-260.000.

Coussau, Jean, 4,650,639, Cl. 376-260.000.

Crespin, Gerard, 4,649,757, Cl. 73-862.060.

Crespin, Gerard, 4,665,293, Cl. 219-69.00V.

Crespin, Gerard; and Coussau, Jean, 4,681,495, Cl. 411-298.000.

Dagard, Philippe; and Cohen, Thierry V., 4,675,090, Cl. 204-182.300.

Dagard, Philippe, 4,684,494, Cl. 376-313.000.

Grespin, Gerard, 4,692,300, Cl. 376-245.000.

Helary, Jean-Louis E.; and Grenon, Pierre, 4,687,174, Cl. 248-638.000.

Huet, Yves; and Perichon, Christian, 4,637,294, Cl. 91-536.00

Jahnke, Serge, 4,683,106, Cl. 376-259.000.

Lebouc, Bernard, 4,653,435, Cl. 122-382.000.

Le Pargneux, Jacques; Bonnamour, Michel; and Filary, Gerard, 4,653,180, Cl. 29-723.000.

Le Rat, Guy; and Vivet, Stephane, 4,650,635, Cl. 376-250.000.

Leroy, Claude; Millot, Jean-Paul; and Desfontaines, Guy, 4,716,008, Cl. 376-237.000.

Leroy, Jean L.; and Ruiz, Pierre, 4,654,186, Cl. 376-216.000.

Marcellin, Michel, 4,674,660, Cl. 165-1.000.

Martin, Alain; and Maillard, Philippe, 4,682,725, Cl. 228-119.000.

Martin, Jean; and Peletan, Rene, 4,683,102, Cl. 376-209.000.

Merle, Etienne; and Genton, Hubert, 4,635,056, Cl. 340-870.360.

Millot, Jean-Paul, 4,652,416, Cl. 376-209.000.

Millot, Jean-Paul, 4,657,725, Cl. 376-209.000.

Millot, Jean-Paul; Desfontaines, Guy; and Babin, Michel, 4,657,7 Cl. 376-178.000.

Millot, Jean-Paul; Desfontaines, Guy; and Babin, Michel, 4,666,65 Cl. 376-209.000.

Millot, Jean-Paul; Alibran, Patrice; and Desfontaines, Guy, 4,701,296, Cl. 376-172.000.

Morin, Jean-Xavier; and Marcellin, Michel, 4,684,375, Cl. 4 197.00R.

Namand, Henri, 4,671,319, Cl. 137-492.500.

Neybourger, Roger; and Olivier, Christian, 4,655,281, Cl. 165-160.000.

Styskal, Pierre; and Guicherd, Laurent, 4,656,734, Cl. 29-723.000.

Sundheimer, Patrick, 4,714,055, Cl. 122-488.000.

Verdeau, Jean-Jacques; and Yazidjian, Jean-Claude, 4,675,152, Cl. 376-400.000.

Framatome et Cogema dite "Fragema": *See—*

Beuneche, Daniel; and Amiet, Pierre, 4,659,537, Cl. 376-261.000.

Leclercq, Joseph, 4,675,151, Cl. 376-364.000.

Seli, Michel, 4,696,788, Cl. 376-253.000.

Frame, Charles W.: *See—*

Crout, Charles J.; Frame, Charles W.; and Harris, Ronald N., 4,653,300, Cl. 72-8.000.

Crout, Charles J.; Frame, Charles W.; and Harris, Ronald N., 4,693,101, Cl. 72-20.000.

Crout, Charles J.; Frame, Charles W.; and Harris, Ronald N., 4,712,404, Cl. 72-8.000.

Crout, Charles J.; Frame, Charles W.; and Harris, Ronald N., 4,712,405, Cl. 72-19.000.

Crout, Charles J.; Frame, Charles W.; and Harris, Ronald N., 4,712,415, Cl. 72-8.000.

Frame, John M.: *See—*

Ratzlaff, Marc H.; Frame, John M.; and Grant, Barrie D., 4,703,217, Cl. 310-338.000.

Frampton, Jeffery A., to Idex Limited (Jersey). Frame for a vehicle sun roof. 4,672,783, 6-16-87, Cl. 52-224.000.

Frampton, Tom J., to Diacon, Inc. Leaded chip carrier. 4,651,415, 3-24-87, Cl. 29-827.000.

Franc, Jean, to Schlumberger Technology Corporation. Method and apparatus for installing packers in a well. 4,665,992, 5-19-87, Cl. 166-387.000.

France Bed Co., Ltd.: *See—*

Masuda, Teruo; and Yamaguchi, Kichiro, 4,656,998, Cl. 128-57.000.

Masuda, Teruo; and Yamaguchi, Kichiro, 4,662,362, Cl. 128-33.000.

Sasaki, Noboru, 4,664,361, Cl. 267-100.000.

Sasaki, Noboru; Iwata, Yasuji; and Mukai, Teruo, 4,713,956, Cl. 72-137.000.

France, Howard G., to North American Philips Corporation. Reset mechanism responsive to loss of torque. 4,715,476, 12-29-87, Cl. 185-40.00R.

France, Michael G.; Geannopoulos, George L.; Bosnyak, Robert J.; and Chan, Steve Y., to Monolithic Memories, Inc. Programmable asynchronous register initialization circuit. 4,684,826, 8-4-87, Cl. 30 272.00A.

France, Randall W.: *See—*

Doyle, Francis S.; and France, Randall W., 4,710,954, Cl. 379-427.000.

France, Rodney C., to Pebco, Inc. Computer controlled load-out system. 4,659,274, 4-21-87, Cl. 414-21.000.

Franceschi, Giovanni: *See—*

Alpegiani, Marco; Bedeschi, Angelo; Foglio, Maurizio; Franceschi, Giovanni; and Perrone, Ettore, 4,713,450, Cl. 540-214.000.

Perrone, Ettore; Alpegiani, Marco; Zarini, Franco; Bruna, Costantino D.; and Franceschi, Giovanni, 4,713,378, Cl. 514-192.000.

anceschi, Jean-Claude: *See*—
- Dequesnes, Pierre M. A.; Franceschi, Jean-Claude; and Bartolo, Sylvain, 4,704,539, Cl. 250-506.100.

anceschini, Jacqueline; Gardaix-Luthereau, Renee; and Margarit, Josette, to Societe d'Etudes Scientifiques et Industrielles de l'Ile-de-France. Benzamides and therapeutic use thereof. 4,703,055, 10-27-87, Cl. 514-400.000.

ranceschini, Stefano: *See*—
- Cianciavicchia, Domenico; and Franceschini, Stefano, 4,673,927, Cl. 340-621.000.

rancescon, Paul K.: *See*—
- McLaughlin, Wayne C.; Recker, William J.; Modesitt, Phillip C.; and Francescon, Paul K., 4,678,040, Cl. 166-370.000.

rancesconi, Piero: *See*—
- Forni, Angelo; and Francesconi, Piero, 4,671,043, Cl. 53-399.000.

rancesconi S.p.A.: *See*—
- Forni, Angelo; and Francesconi, Piero, 4,671,043, Cl. 53-399.000.

rancese, Catherine; Tordeux, Marc; and Wakselman, Claude, to Rhone-Poulenc Specialties Chimiques. Process for the preparation of perfluoroalkylated alcohols and esters. 4,701,569, 10-20-87, Cl. 568-812.000.

anchak, Nelson P.: *See*—
- Bakos, Peter; Darrow, Russell E.; Franchak, Nelson P.; and Funari, Joseph, 4,670,325, Cl. 428-209.000.

ranchetti, Victoria M.: *See*—
- Keppel, Robert A., and Franchetti, Victoria M., 4,670,415, Cl. 502-209.000.

ranchin, Franco, and Bellomo, Paolo, to Paglianti, Antonio Eliano. Reticular structure. 4,655,021, 4-7-87, Cl. 52-641.000.

ranchina, Thomas F.; Gudmundson, Gunnar G.; and Reuss, John R., to 2610 PGA Partnership. Add-on attachment for high-speed photographic printer. 4,711,565, 12-8-87, Cl. 355-39.000.

ranchino, Charles F.: *See*—
- Scovill, John P.; Klayman, Daniel L.; and Franchino, Charles F., 4,657,903, Cl. 514-185.000.

ranchino, Domenico; Pantet, Ettore; Libre, Luigi; and Valperga, Gaspare. Device for indicating abnormal pressure conditions in a tire on a motor vehicle in motion. 4,694,273, 9-15-87, Cl. 340-58.000.

ranchuk, John M.: *See*—
- Appling, James; and Franchuk, John M., 4,634,102, Cl. 254-278.000.

rancini, Joseph P.; Asbo, Einar L.; and Boston, Vincent, to Visa International Service Association. Transaction card with magnetic stripe emulator. 4,701,601, 10-20-87, Cl. 235-449.000.

rancioni, Renzo, to Cavanna S.p.A. Conveyor device with two belts for sweet products. 4,648,504, 3-10-87, Cl. 198-606.000.

ranciosi, Alfonso, to University of Minnesota, Regents of the. Samarium-promoted oxidation of silicon and gallium arsenide surfaces. 4,684,541, 8-4-87, Cl. 437-173.000.

Francis, Daniel L., to Cetus-Ben Venue Therapeutics. Process for freeze drying cyclophosphamide. 4,659,699, 4-21-87, Cl. 514-53.000.

Francis, David W., to Commercial Shearing, Inc. Hydraulic seal having U-shaped gasket and a plurality of plastically deformable posts. 4,636,155, 1-13-87, Cl. 418-132.000.

Francis, Earl C.: *See*—
- Bennett, Douglas D.; Welsh, Richard E.; Hammesfahr, Paul D.; Francis, Earl C.; and Kopunek, Thomas V., 4,659,327, Cl. 604-135.000.

Francis, Gilbert. Toilet paper dispenser. 4,684,075, 8-4-87, Cl. 242-55.420.

Francis, H. Paul; DeBoer, Edward D.; and Wermers, Vilas L., to American Maize-Products Company. High temperature drilling fluid component. 4,652,384, 3-24-87, Cl. 252-8.510.

Francis, John. Bacterial incubator and method of use. 4,670,149, 6-2-87, Cl. 210-608.000.

Francis, John E.; and Gelotte, Karl O., to Ciba-Geigy Corporation. Triazoloquinazoline compounds, and their methods of preparation, pharmaceutical compositions, and uses. 4,713,383, 12-15-87, Cl. 514-267.000.

Francis, John H., and Van DerLinden, Roy E., to Frederick Manufacturing Company, Inc. Variable speed drive—apparatus and method of fabricating the apparatus. 4,682,517, 7-28-87, Cl. 74-796.000.

Francis, John H.: *See*—
- Draper, Francis R.; Francis, John H.; and Ogburn, Alan P., 4,706,635, Cl. 123-506.000.
- Vanderlinden, Roy E.; and Francis, John H., 4,644,810, Cl. 74-191.000.

Francis, Martin: *See*—
- Dutton, Hugh J.; and Francis, Martin, 4,689,928, Cl. 52-235.000.

Francis, Michael A., to Ethyl Corporation. Method of forming a plastic film construction. 4,674,999, 6-23-87, Cl. 493-356.000.

Francis, Paul S. Modular personal security device. 4,716,402, 12-29-87, Cl. 340-693.000.

Francis, Ralph M., Jr., to Webster Electric Company, Inc. Transformer coil construction. 4,668,930, 5-26-87, Cl. 336-180.000.

Francis, Samuel A., to Raytheon Company. Polymer hydrophone array with multilayer printed circuit wiring. 4,638,468, 1-20-87, Cl. 367-153.000.

Francis, Timothy J.: *See*—
- Williams, Peter C.; Koch, Ulrich H.; and Francis, Timothy J., 4,671,308, Cl. 137-72.000.

Francisco, Edward E., Jr.: *See*—
- Cohrs, Gary D.; and Francisco, Edward E., Jr., 4,674,317, Cl. 73-3.000.

Francisco, Robert D. Faucet drain apparatus. 4,700,732, 10-20-87, Cl. 137-107.000.

Francisco, Roland L., to C.L.M., Inc. Paint stripper compositions. 4,666,626, 5-19-87, Cl. 252-153.000.

Franck, Klaus; and Saaer, Werner, to Wilkhahn, Wilkening & Hahne GmbH & Co. Variable seating arrangement. 4,662,679, 5-5-87, Cl. 297-240.000.

Francke, Erwin; Frie, Ulrich; and Poeschel, Juergen, to Krauss-Maffei A.G. Process and apparatus for weapons fire simulation. 4,650,419, 3-17-87, Cl. 434-16.000.

Franckowiak, Gerhard; Bechem, Martin; Gross, Rainer; Kayser, Michael; Schramm, Matthias; and Thomas, Gunter, to Bayer Aktiengesellschaft. Circulation active pyrimidinyl-dihydropyridines. 4,710,501, 12-1-87, Cl. 514-256.000.

Franckowiak, Gerhard: *See*—
- Meyer, Horst; Franckowiak, Gerhard; Rosentreter, Ulrich; Gross, Rainer; Thomas, Gunter; Schramm, Matthias; Kayser, Michael; Seuter, Friedel; Perzborn, Elisabeth; and Bechem, Martin, 4,707,479, Cl. 514-222.000.
- Stoltefuss, Jurgen; Heiker, Fred R.; Franckowiak, Gerhard; Schramm, Matthias; Thomas, Gunter; and Gross, Rainer, 4,645,775, Cl. 514-352.000.

Franckx, Joris R. I.: *See*—
- Hall, Robert L.; Franckx, Joris R. I.; Overbergh, Noel M. M.; Doucet, Jos; and Vansant, Jan, 4,685,683, Cl. 277-1.000.

Franco, Dario: *See*—
- Astegiano, Luciano; Bertoglio, Ottavio; Bosco, Fulvio; de Bosio, Alfredo; Franco, Dario; Lampiano, Piero; Melle, Antonio; and Rosboch, Luciano, 4,706,270, Cl. 379-2.000.

Franco-Ferreira, Edgard A., and Blume, George H., to Harrisburg, Inc. Method for manufacturing a guide base of a valve. 4,675,966, 6-30-87, Cl. 29-157.10R.

Franco, Miguel V. Loom for carpets, tapestry, and the like and method of using. 4,655,863, 4-7-87, Cl. 156-72.000.

Franco, Miquel A.: *See*—
- Beckes, Jerome F.; Kadner, Steven P.; Franco, Miquel A., and Campos, Robert G., 4,672,558, Cl. 364-518.000.

Franco, Pierre: *See*—
- Lacroix, Jean-Claude; Franco, Pierre; Le Gail, Stephane; Bourret, Gerard; and Pochet, Jacques, 4,677,644, Cl. 375-5.000.
- Lacroix, Jean-Claude; Franco, Pierre; Le Gail, Stephane; Bourret, Gerard, and Pochet, Jacques, 4,689,790, Cl. 370-110.100.

Franco, Simone: *See*—
- Delfino, Gerolamo; Franco, Simone; and Verdi, Cesare, 4,695,531, Cl. 430-513.000.

Francois, Daniel: *See*—
- Frioux, Christian; Glachet, Charles; Francois, Daniel; and Tentelier, Jean, 4,650,388, Cl. 414-1.000.

Francois, Jean-Claude: *See*—
- Precoul, Michel; and Francois, Jean-Claude, 4,669,386, Cl. 102-476.000.

Francois-Noel, Richard, to Vesuvius International Corporation. Gripping device for a wearing element. 4,687,186, 8-18-87, Cl. 266-287.000.

Francotyp GmbH: *See*—
- Denzin, Horst, 4,649,489, Cl. 364-464.000.

Francovitch, Thomas F., to Single-Ply Institute of America, Inc. Roof construction having insulation structure, membrane and photovoltaic cells. 4,674,244, 6-23-87, Cl. 52-173.00R.

Francus, Tova: *See*—
- Becker, Carl G.; Francus, Tova; and Siskind, Gregory W., 4,702,907, Cl. 424-88.000.

Franczyk, Thad S.: *See*—
- Zinnen, Hermann A.; and Franczyk, Thad S., 4,642,397, Cl. 568-934.000.
- Zinnen, Hermann A.; and Franczyk, Thad S., 4,714,783, Cl. 568-424.000.

Frandsen, Jorgen, to Unisys Corp. Method of making a multi-coil/multi-magnet actuator. 4,692,999, 9-15-87, Cl. 29-596.000.

Franek, Henning; Broemer, Heinz; Deutscher, Klaus, deceased (by Deutscher, Anneliese, heir); and Schaefer, Roland, to Ernst Leitz Wetzlar GmbH. Composite plastics-based material for prosthesis purposes. 4,714,721, 12-22-87, Cl. 523-113.000.

Franek, Jozef T.: *See*—
- Uehlinger, Werner H.; and Franek, Jozef T., 4,681,001, Cl. 83-37.000.

Frangatos, Gerassimo; and Davis, Robert H., to Mobil Oil Corporation. Mercapto-thiadiazole reaction products as multifunctional lubricant additives and compositions thereof. 4,661,273, 4-28-87, Cl. 252-47.000.

Frangi, Giampietro V. Process for making pants-like undergarment incorporating a partially rigid and partially elastic structure for retaining abdominal tissue in place, particularly for retaining inguinal hernias in place and pants-like obtained with such process. 4,671,264, 6-9-87, Cl. 128-96.000.

Frangou, Andrew, to Imperial Chemical Industries PLC. Coating compositions. 4,675,358, 6-23-87, Cl. 524-439.000.

Frank, Andrew C.: *See*—
- Lewis, Kenneth A.; Alpern, Alan N.; Frank, Andrew C.; and Ross, Stuart E., 4,715,045, Cl. 375-58.000.

Frank, Arthur J., to United States of America, Energy. Semiconductor electrode with improved photostability characteristics. 4,650,558, 3-17-87, Cl. 204-242.000.

Frank, Arthur M.; DeRespinis, Silvio F.; and Mockovciak, John, Jr., to United States of America, National Aeronautics and Space Administration. Sun shield. 4,637,447, 1-20-87, Cl. 160-265.000.

Frank, Arthur M., to Grumman Aerospace Corporation. Torsion spring powered missile wing deployment system. 4,691,880, 9-8-87, Cl 244-49.000.

Frank, Arthur M., to Grumman Aerospace Corp. Collector for liquid droplet radiator. 4,702,309, 10-27-87, Cl 165-104.310.

Frank, Bruce H.: *See*—

Chance, Ronald E.; Frank, Bruce H.; and Galloway, John A., 4,652,547, Cl. 514-4.000.

Chance, Ronald E.; Frank, Bruce H.; and Galloway, John A., 4,652,548, Cl. 514-4.000.

Chance, Ronald E.; Frank, Bruce H.; and Galloway, John A., 4,654,324, Cl. 514-12.000.

Frank, Charles W., Jr.: *See*—

Lofgren, Karl M. J.; Shearer, Gerald W.; and Frank, Charles W., Jr., 4,667,170, Cl. 331-17.000.

Frank, Dieter; and Cho, Hee, to Akzona Incorporated. Manufacture of oxazolidines by the alkoxylation of imines. 4,677,208, 6-30-87, Cl. 548-215.000.

Frank, Dieter. Forked thill head attachment. 4,679,518, 7-14-87, Cl 114-98.000.

Frank, Dieter: *See*—

Brady, Cathereine D.; Metcalfe, Lincoln D.; Slaboszewski, Dale R.; and Frank, Dieter, 4,678,580, Cl. 210-490.000.

Frank, Dorothy M.: *See*—

Reynolds, Martin L.; Frank, Dorothy M.; and Riehl, Tilford F., 4,643,206, Cl. 131-336.000.

Frank, Earl E., to Abex Corporation. Railroad frog having movable wing rails. 4,637,578, 1-20-87, Cl. 246-391.000.

Frank, Ernest A.: *See*—

Kaminski, Donald J.; Frank, Ernest A.; and Grinsteiner, Craig S., 4,686,913, Cl. 110-110.000.

Frank, Gerald L.: *See*—

Lucas, William L.; Asbill, Clarence M., III; Frank, Gerald L.; and Miller, David M., 4,679,583, Cl. 137-84.000.

Frank, Harry, to Shell Oil Company. Deactivation of phosphonium salt catalyst. 4,692,504, 9-8-87, Cl. 528-89.000.

Frank, Helmut, to Manzinger Papierwerke KG. Carrying bag with interlocking handle portions. 4,641,360, 2-3-87, Cl. 383-15.000.

Frank J. Zamboni & Co. Inc.: *See*—

Zamboni, Richard F., 4,705,320, Cl. 299-24.000.

Frank, Jimmy [illegible], and Wolfe, John R., III, to Gagemaker, Inc. Diameter measuring device. 4,700,484, 10-20-87, Cl. 33-142.000.

Frank, Larry A.: *See*—

Knoepke, John R.; Pielet, Howard M.; Frank, Larry A.; and Rellis, Daniel, Jr., 4,667,715, Cl. 164-453.000.

Frank, Laszlo: *See*—

Hideg, Kalman; Hankovszky, Olga H.; Frank, Laszlo; Bodi, Ilona; and Csak, Jozsef, 4,703,056, Cl. 514-414.000.

Frank, Louis M., to Raychem Corporation. Monitoring system for use with elongate heater units. 4,667,194, 5-19-87, Cl. 340-870.170.

Frank, Marc. Small animal trap with multifingered bait holder. 4,677,786, 7-7-87, Cl. 43-82.000.

Frank, Mark S. Sailing canoe kit. 4,646,669, 3-3-87, Cl. 114-39.000.

Frank Mayer & Associates: *See*—

Crosslen, Louis J., 4,652,243, Cl. 434-376.000.

Crosslen, Louis J., 4,673,090, Cl. 211-183.000.

Crosslen, Louis J., 4,682,825, Cl. 312-42.000.

Frank-Neumann, Michel; Sedrati, Madjid; Vigneron, Jean-Pierre; and Bloy, Vincente, to Roussel Uclaf. Cyclopropane derivatives containing the thiocarbonate group. 4,677,218, 6-30-87, Cl. 558-243.000.

Frank, Paul C. Hydraulic bench press. 4,686,897, 8-18-87, Cl. 100-214.000.

Frank, Peter, to Product Innovation Limited. Movement sensor. 4,688,025, 8-18-87, Cl. 340-571.000.

Frank, Ray E.: *See*—

Nikkel, Lee F.; Baerg, Barry W.; Ensz, Randy; and Frank, Ray E., 4,646,663, Cl. 111-73.000.

Frank, Richard. Visual fire alarm apparatus. 4,649,376, 3-10-87, Cl. 340-691.000.

Frank, Richard J.; and Smith, Donald H., to Goodyear Aerospace Corporation. Locking configuration for a wheel rim flange retaining ring. 4,635,695, 1-13-87, Cl. 152-410.000.

Frank, Robert: *See*—

Goldman, Mark; Frank, Robert; Roberts, Craig; and Jacobs, Norman, 4,643,343, Cl. 224-275.000.

Frank, Robert G.; Fecik, Michael T.; and Pavlik, Joseph C., to PPG Industries, Inc. Sheet positioning system. 4,666,493, 5-19-87, Cl. 65-29.000.

Frank, Robert G.; Claassen, George R.; Waterloo, Thomas L.; Schultz, Stephen J.; and Fecik, Michael T., to PPG Industries, Inc. Innovative press bending of thermoplastic sheets. 4,711,653, 12-8-87, Cl. 65-106.000.

Frank, Robert G.: *See*—

Reese, Thomas J.; Ewing, John J.; Fecik, Michael T.; Frank, Robert G.; and Bennett, Terry A., 4,661,139, Cl. 65-106.000.

Thimons, Edward A.; Frank, Robert G.; Fecik, Michael T.; Claassen, George R.; Ewing, John J.; and Seymour, Samuel L., 4,662,925, Cl. 65-104.000.

Thimons, Edward A.; Frank, Robert G.; Fecik, Michael T.; Claassen, George R.; Ewing, John J.; Seymour, Samuel L.; and Pavlik, Joseph C., 4,666,492, Cl. 65-29.000.

Frank, Ronald; and Heikens, Wiebke, to Gesellschaft fur Biotechnologische Forschung mbH (GBF). Process for the simultaneous synthesis of several oligonucleotides on a solid phase. 4,689,405, 8-25-87, Cl. 536-27.000.

Frank, Rudiger, to Robert Bosch GmbH. Blade sealing for impeller pumps. 4,657,491, 4-14-87, Cl. 418-136.000.

Frank, Steven R.: *See*—

Boomgaarden, Jonathan C.; Bautista, Bruce Q.; Davis, Charles R and Frank, Steven R., 4,651,337, Cl. 378-177.000.

Frank, Walter C.; and West, James C., to Union Camp Corporation. Use of humates in printing inks. 4,699,660, 10-13-87, Cl. 106-31.000.

Frank, Walter C.: *See*—

Locko, George A.; and Frank, Walter C., 4,663,488, C 568-485.000.

Frank, Werner, to Licentia Patent-Verwaltungs-GmbH. Friction separation device. 4,634,111, 1-6-87, Cl. 271-34.000.

Frank, Werner, to Licentia Patent-Verwaltungs-GmbH. Distribution line for flat objects and particularly for letters. 4,657,241, 4-14-87, C 271-305.000.

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Frank, William E.: *See*—

Rosa, John; and Frank, William E., 4,638,138, Cl. 219-10.770.

Frank, Wolfgang, to TAA Technique and Administration AG. Sa boards and surfboards as well as manufacturing process there 4,713,032, 12-15-87, Cl. 441-74.000.

Frankard, James M.; and Broch, Orville V. Separation and recovery reusable heavy metal hydroxides from metal finishing wastewaters 4,680,126, 7-14-87, Cl. 210-710.000.

Franke, Albrecht: *See*—

Rossy, Phillip A.; Thyes, Marco; Franke, Albrecht; Koenig, Hor Lehmann, Hans Dieter; Gries, Josef; Friedrich, Ludwig; and Lenke, Dieter, 4,636,504, Cl. 514-252.000.

Franke, Albrecht, deceased (Alm, Renate Elisabeth Franke nee Catharina Franke, Tobias Franke, heirs); Mueller, Claus D.; and Lenke, Dieter, to BASF Aktiengesellschaft. 10,11-dihydro-5H-dibenzo[a,d]cycloheptadiene derivatives in a method for treating cardiac arrhythmia. 4,670,435, 6-2-87, Cl. 514-239.000.

Franke, Alois: *See*—

Forster, Ludwig; Franke, Alois; and Nobel, Reinhard, 4,687,56 Cl. 204-279.000.

Franke, David W.; and Hall, Carroll R., to Texas Instruments Incorporated. Method for generating and displaying tree structures in a limited display area. 4,710,763, 12-1-87, Cl. 340-723.000.

Franke, Gunter; Ockelmann, Dieter; Raue, Roderich; and Wild, Peter, to Bayer Aktiengesellschaft. Basic dyestuffs. 4,710,569, 12-1-87, C 544-31.000.

Franke, Hans G., to Eastman Kodak Company. Method and apparatus for fixing toner images. 4,639,405, 1-27-87, Cl. 430-124.000.

Franke, Heinrich; Joppien, Hartmut; and Franke, Helga, to Schering Aktiengesellschaft. Difluorocyclopropane derivatives and their preparation, as well as pesticidal compositions based on these compounds 4,701,563, 10-20-87, Cl. 568-639.000.

Franke, Heinrich; Joppien, Hartmut; and Franke, Helga, to Schering Aktiengesellschaft. Insecticidal and acaricidal oxetane and thietane derivatives, compositions, and method of use therefor. 4,714,71 12-22-87, Cl. 514-430.000.

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Franke, Helga; Franke, Heinrich; Kruger, Hans-Rudolf; and Joppien, Hartmut, 4,678,811, Cl. 514-721.000.

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Franke, Jeffery S.: *See*—

Tuggle, Lloyd H.; Baker, Michael; and Franke, Jeffery S. 4,674,146, Cl. 15-330.000.

Franke, Lutz: *See*—

Rehm, Gallus; and Franke, Lutz, 4,671,034, Cl. 52-223.00L.

Franke, Martin G., to Franke, Martin G. Picture display case. 4,639,72 1-27-87, Cl. 340-815.020.

Franke, Paul G.: *See*—

LeGault, Robert H.; Jezzi, Arrigo D.; Milner, James D.; Oakley Barbara; and Franke, Paul C., 4,639,254, Cl. 604-385.00R.

Franke, Rudi: *See*—

Gambini, Michael R.; Martone, Ronald J.; Kearns, Donald S Enos, Gary W.; Franke, Rudi; and Schoeppy, Herbert, 4,645,93 Cl. 250-363.00S.

Franke, Thomas C. Carpet seaming tool. 4,699,686, 10-13-87, C 156-579.000.

Franke, Werner; and Brahm, Richard, to Hoechst Aktiengesellschaft Electrophotographic material sensitized by 3,3'-dimethylindolenine cyanine dyes. 4,657,836, 4-14-87, Cl. 430-83.000.

Franke, Werner; and Brahm, Richard, to Hoechst Aktiengesellschaft Electrophotographic recording material containing zinc oxide and cyanine sensitizer. 4,663,261, 5-5-87, Cl. 430-93.000.

Franke, Werner; and Brahm, Richard, to Hoechst Aktiengesellschaft Organic electrophotographic material sensitized by cyanine dye 4,681,827, 7-21-87, Cl. 430-83.000.

Frankel, Alfred R. Sweat collecting headband. 4,638,512, 1-27-87, C 2-171.000.

Frankel, Alfred R. Automatic intubation device for guiding endotracheal tube into trachea. 4,672,960, 6-16-87, Cl. 128-200.260.

kel, Eric; and Plucinski, Andrzej J., to Becton, Dickinson and ompany. Blood sample needle assembly with vein indicator. 679,571, 7-14-87, Cl. 128-764.000.

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nkel, Hillel: *See—*
 Currie, Edmund; and Frankel, Hillel, 4,634,090, Cl. 248-544.000.

nkel, Michael S.: *See—*
 Edson, William A.; Nelson, Raymond A.; and Frankel, Michael S., 4,677,440, Cl. 342-157.000.

nkel, Milton B.; and Wilson, Edgar R., to Rockwell International orporation. Polyazido esters. 4,683,085, 7-28-87, Cl. 260-349.000.

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nkel, Robert D.: *See—*
 Forsyth, James M.; and Frankel, Robert D., 4,700,371, Cl. 378-34.000.

nken, Adrianus J. J.; van Bers, Waltherus A. M.; van Bree, Rene M.; nd van Kasteren, Adrianus C., to U.S. Philips Corporation. Screen xtension linkage for a video real-screen projection apparatus. ,647,166, 3-3-87, Cl. 353-79.000.

nken, Adrianus J. J.: *See—*
 Smulders, Hendricus F. G.; Franken, Adrianus J. J.; Faber, Johannes W.; and Swinkels, Wouter H., 4,637,777, Cl. 414-751.000.

nken, Ronald L.: *See—*
 Beck, Herbert W.; and Franken, Ronald L., 4,637,343, Cl. 119-31.000.

ankenberg, Alfred A., to Robertshaw Controls Company. Digital clock construction, pinion gear therefor and methods of making the same. 4,653,932, 3-31-87, Cl. 368-220.000.

ankenbush, Robert H.: *See—*
 Hallenbeck, Mark; and Frankenbush, Robert H., 4,637,564, Cl. 242-25.00A.

ankenfeld, John W.: *See—*
 Feldman, Nicholas; and Frankenfeld, John W., 4,634,550, Cl. 252-56.00D.

ankhouse, Florence D. Article carrier. 4,634,031, 1-6-87, Cl. 224-205.000.

ankhouse, Thomas J.; and Spease, Arthur L., to Teleflex Incorporated. Molded terminal for remote control assembly (lollipop). 4,694,705, 9-22-87, Cl. 74-501.00R.

ankiewicz, Theodore C.: *See—*
 Prasad, Rama R. S.; and Frankiewicz, Theodore C., 4,646,771, Cl. 137-13.000.

rankische Rohrwerke Gebr. Kirchner GmbH & Co.: *See—*
 Korn, Gunther, 4,674,969, Cl. 425-325.000.

rankl, Gerald P. Liquid aeration device and method. 4,645,603, 2-24-87, Cl. 210-629.000.

rankl & Kirchner GmbH & Co KG: *See—*
 Erndt, Hans; Link, Erich; Martin, Adolf; Palloch, Herbert; and Wittler, Hilmar, 4,712,660, Cl. 192-18.00B.
 Lengsfeld, Karl; Link, Erich; and Erndt, Hans, 4,703,841, Cl. 192-12.0BA.
 Lengsfeld, Karl; Link, Erich; Martin, Adolf; and Wittler, Hilmar, 4,709,794, Cl. 192-18.00B.
 Palloch, Herbert; and Erndt, Hans, 4,648,855, Cl. 474-144.000.
 Palloch, Herbert; and Erndt, Hans, 4,687,461, Cl. 474-148.000.
 Rohr, Gustav; and Nohl, Gerd, 4,696,246, Cl. 112-272.000.
 Rohr, Gustav; and Vetter, Karl-Heinz, 4,707,643, Cl. 318-77.000.

rankland, James D., Jr., to New Castle Industries, Inc. Extrusion screw. 4,639,143, 1-27-87, Cl. 366-89.000.

rankle, Helmut, to Messerschmitt-Bolkow-Blohm GmbH. Method for manufacturing components such as heat exchangers, heat absorbers, rocket engines or the like. 4,676,876, 6-30-87, Cl. 204-9.000.

ranklin, Andrew D., to American Telephone and Telegraph Company, AT&T Information Systems Inc. Flow control scheme for a switching network. 4,677,616, 6-30-87, Cl. 370-94.000.

ranklin, Austin: *See—*
 Muller, Lon J.; Franklin, Austin; and George, Robert W., II, 4,701,893, Cl. 367-87.000.

ranklin, Carl M.: *See—*
 Oswald, Norman D.; Mankey, Harry S.; Franklin, Carl M.; Wilhelm, James M.; and Osborn, Ronnie M., 4,702,843, Cl. 280-707.000.

ranklin, Duane R.; Evans, Archibald D.; and Hansen, Walter J., to Lift-R Technologies, Inc. Energy-recycling scissors lift. 4,712,653, 12-15-87, Cl. 187-18.000.

ranklin, Dwaine R. Archery fish point. 4,642,929, 2-17-87, Cl. 43-6.000.

ranklin Electric Co., Inc.: *See—*
 Miller, Thomas A., 4,703,387, Cl. 361-79.000.
 Schaefer, Edward J.; and George, Kenneth D., 4,684,837, Cl. 310-87.000.

ranklin, Gerald K., to Sperry Corporation. Keyboard switch. 4,652,704, 3-24-87, Cl. 200-5.00A.

ranklin, Grover C., Jr. Apparatus for introducing a gas into a liquid. 4,680,119, 7-14-87, Cl. 210-512.100.

ranklin Industries, Inc.: *See—*
 Severinghaus, Nelson, Jr., 4,661,164, Cl. 106-288.00B.

ranklin, James, to Solvay & Cie (Societe Anonyme). Process for carrying out substitution chlorination reactions of organic compounds by means of molecular chlorine in the presence of a chlorinated product serving as a radical initiator, and radical initiators used in such a process. 4,661,648, 4-28-87, Cl. 570-208.000.

Franklin, James D.; and Dewhirst, Donald R., to Hughes Aircraft Company. Laser amplifier buffer. 4,656,433, 4-7-87, Cl. 330-4.300.

Franklin, John N. Automatically aligned tow bar hitch. 4,714,265, 12-22-87, Cl. 280-491.00D.

Franklin, John S., to Du Pont de Nemours, E. I., and Company. New fabrics, yarns and process. 4,634,625, 1-6-87, Cl. 428-258.000.

Franklin, Kenneth W., to Bishopbarn Limited. Apparatus for and method of testing for leaks in packages. 4,649,740, 3-17-87, Cl. 73-49.300.

Franklin, Kenneth W., to Bishopbarn Limited. Package handling apparatus and method. 4,671,101, 6-9-87, Cl. 73-49.300.

Franklin, Lloyd C.: *See—*
 Girard, Theodore A.; and Franklin, Lloyd C., 4,654,424, Cl. 548-311.000.

Franklin, Paul E.: *See—*
 Johnson, Anthony J.; and Franklin, Paul E., 4,647,963, Cl. 358-80.000.

Franklin, Paul R., Jr. CO_2 snow forming header with triple point feature. 4,640,460, 2-3-87, Cl. 239-2.200.

Franklin, Paulie H. Stringed musical instrument. 4,704,935, 11-10-87, Cl. 84-312.00P.

Franklin, Randall M., to RVF Corporation. Automotive roll-up tool kit. 4,715,499, 12-29-87, Cl. 206-373.000.

Franklin, Robert P., to Trans-World Manufacturing Corporation. Amphitheater display. 4,696,407, 9-29-87, Cl. 211-183.000.

Franklin, Robert P., to Trans-World Manufacturing Corporation. Amphitheater display with end caps. 4,707,940, 11-24-87, Cl. 40-605.000.

Franklin, Ronald A.: *See—*
 Lind, Earl R.; and Franklin, Ronald A., 4,697,253, Cl. 367-12.000.

Franklin, Samuel H. Alarm and communication system for water skiers. 4,689,611, 8-25-87, Cl. 340-539.000.

Franklin, William L.: *See—*
 Weiland, Richard H.; and Franklin, William L., 4,702,442, Cl. 244-216.000.

Franko, Zenon Z., to C. R. Bard, Inc. Mechanical penile prosthesis. 4,693,719, 9-15-87, Cl. 623-11.000.

Frankonia Kinderausstattungen GmbH & Co. KG: *See—*
 Schrader, Margarete, 4,707,024, Cl. 297-250.000.

Frankovich, Robert J.: *See—*
 Hartmann, Robert F.; Chan, Yiu-Fai; Frankovich, Robert J.; Ou, Jung-Hsing; So, Hock C.; and Wong, Sau-Ching, 4,713,792, Cl. 364-900.000.

Franks, Donald C.: *See—*
 Crawford, Robert D.; Johnson, Wayne J.; Kimber, Theo, Jr.; Noll, T. Douglas; Volk, Jack R.; and Franks, Donald C., 4,715,031, Cl. 370-85.000.

Franks, James A.: *See—*
 Walsh, Richard F.; Franks, James A.; and Martin, Richard R., 4,658,371, Cl. 364-550.000.

Franks, Jeffrey G.: *See—*
 Seal, J. David; and Franks, Jeffrey G., 4,668,386, Cl. 210-91.000.

Franks, Nelson J.; and Nowicki, Casimir W., to Owens-Illinois, Inc. Apparatus for applying labels to blow molded articles. 4,636,166, 1-13-87, Cl. 425-503.000.

Franks, Robert L., Jr., to J & F Oil Tools, Inc. Circulation reversing tool. 4,657,092, 4-14-87, Cl. 175-232.000.

Franks, Theodore E., to Hilco. Composite stud. 4,684,304, 8-4-87, Cl. 411-171.000.

Franksen, Holger, to Siemens Aktiengesellschaft. Switching device for shorting at least one superconducting magnet winding. 4,635,015, 1-6-87, Cl. 335-216.000.

Frankstein, Brois: *See—*
 Lev, Monick; and Frankstein, Brois, 4,704,846, Cl. 53-522.000.

Franson, David C.: *See—*
 Hoffman, Robert K.; Kavanaugh, Mark A.; and Franson, David C., 4,640,309, Cl. 137-596.180.

Frantom, Richard L.; Seitz, William R.; and Datwyler, Walter F., Jr., to Allied Corporation. Electrically adjusted safety restraint system. 4,655,312, 4-7-87, Cl. 180-268.000.

Frantz, Douglas C.: *See—*
 Killen, H. Ron; Wilkins, Scott A.; and Frantz, Douglas C., 4,637,361, Cl. 123-339.000.
 Kissel, William R.; Sway-Tin, Min; Merchant, Daniel P.; and Frantz, Douglas C., 4,659,977, Cl. 320-64.000.

Frantz, Gene A.: *See—*
 Lin, Kun-Shan; Goudie, Kathleen M.; and Frantz, Gene A., 4,685,135, Cl. 381-52.000.

Frantz, Robert A.; and Lech, Thaddeus, Jr., to Borg-Warner Automotive, Inc. Clutch driven plate assembly with a two-part hub. 4,651,859, 3-24-87, Cl. 192-106.200.

Frantz, Virgil L., to Roanoke College. Two-stage precoalescer unit. 4,692,175, 9-8-87, Cl. 55-218.000.

Franz Buttner AG: *See—*
 Gasser, Karl, 4,655,623, Cl. 400-208.000.

Franz, Gerhard; Schonfelder, Lothar; and Heine, Heinrich, to Bayer Aktiengesellschaft. Lamellar iron oxide pigments, a process for the production thereof and the use thereof. 4,676,838, 6-30-87, Cl. 106-304.000.

Franz, Gerhard: *See—*
 Rademachers, Jakob; Turban, Karlheinz; Franz, Gerhard; Fuhr, Werner; and Holle, Bernd, 4,681,637, Cl. 106-304.000.

Franz Haas Waffelmaschinen Industriegesellschaft m.b.H.: *See—*
  Haas, Franz, sen.; Haas, Franz, jun.; and Haas, Johann, 4,669,603, Cl. 198-432.000.
  Haas, Franz, Sr.; Haas, Franz, Jr.; and Haas, Johann, 4,694,741, Cl. 99-354.000.
  Haas, Franz, Sr.; Haas, Franz, Jr.; and Haas, Johann, 4,710,117, Cl. 425-126.00R.

Franz, Hans-Joachim; Sadler, Karl-Otto; and Schmidt, Willi, to Blohm & Voss AG. Ship with several decks having longitudinal and lateral support elements arranged in a grid. 4,658,747, 4-21-87, Cl. 114-85.000.

Franz, Hans-Joachim; Hommola, Jurgen; Langensiepen, Bernd; and Eckhardt, Wolfgang, to Blohm & Voss AG. Ship's door or hatch arrangement. 4,665,653, 5-19-87, Cl. 49-477.000.

Franz, Hans-Joachim: *See—*
  Sadler, Karl-Otto; Schmidt, Willy; and Franz, Hans-Joachim, 4,709,646, Cl. 114-5.000.

Franz, Herbert; and Pfluger, Gerhard, to Robert Bosch GmbH. Easily serviceable alternator, particularly for vehicular use. 4,705,983, 11-10-87, Cl. 310-68.00D.

Franz, John E.; and Kaufman, Robert J., to Monsanto Company. Hydrazido derivatives of N-phosphinothioylmethylglycine esters. 4,652,297, 3-24-87, Cl. 71-87.000.

Franz, John E., to Monsanto Company. Thioester of n-phosphonomethylglycine. 4,659,860, 4-21-87, Cl. 558-231.000.

Franz, John E.: *See—*
  Dhingra, Om P.; Franz, John E.; and Hakes, Harrison R., 4,634,788, Cl. 558-145.000.

Franz, Leo J.: *See—*
  Gullett, Edwin P.; and Franz, Leo J., 4,651,883, Cl. 211-59.200.

Franz, Michael R. Apparatus and method for recording monophasic action potentials from an in vivo heart. 4,682,603, 7-28-87, Cl. 128-642.000.

Franz Muller GmbH & Co.: *See—*
  Vroomen, Albert, 4,656,701, Cl. 26-10.00C.

Franz, Patrick J.: *See—*
  Straayer, David H.; Franz, Patrick J.; and Lynch, Eugene F., 4,680,577, Cl. 340-711.000.

Franz, Peter: *See—*
  Bode, Werner; Franz, Peter; and Wilke, Heinrich, 4,649,309, Cl. 310-234.000.
  Bode, Werner; Franz, Peter; Ross, Werner; and Schulze, Gunter, 4,667,394, Cl. 29-597.000.
  Bode, Werner; Franz, Peter; Hausdorf, Reiner; and Schulze, Gunter, 4,698,902, Cl. 29-597.000.
  Wehrli, Werner; and Franz, Peter, 4,698,378, Cl. 523-318.000.

Franz, Philip M. Self-steering rail truck. 4,660,476, 4-28-87, Cl. 105-168.000.

Franz Plasser Bahnbaumaschinen-Industriegesellschaft m.b.H.: *See—*
  Theurer, Josef; and Hansmann, Johann, 4,644,868, Cl. 104-7.200.

Franz Plasser Bahnbaumaschinen-Industriegesellschaft m.b.H.: *See—*
  Theurer, Josef; and Oellerer, Friedrich, 4,635,664, Cl. 134-131.000.
  Theurer, Josef, 4,640,364, Cl. 171-16.000.
  Theurer, Josef, 4,643,101, Cl. 104-7.200.
  Theurer, Josef, 4,646,645, Cl. 104-7.200.
  Theurer, Josef; and Bock, Gernot, 4,655,142, Cl. 104-7.100.
  Theurer, Josef, 4,691,565, Cl. 73-146.000.
  Theurer, Josef; and Oellerer, Friedrich, 4,703,568, Cl. 37-104.000.

Franz, Reinhard; Dittmar, Wilfried; Scheidegger, Christian; and Frohlich, Roland, to Reinhard, Franz. Electronic keyboard musical instrument and a method of operating the same. 4,644,840, 2-24-87, Cl. 84-1.010.

Franz Rittmeyer AG: *See—*
  Ramm, A. Jurgen; and Formaz, Jerome, 4,644,804, Cl. 73-862.590.

Franz Sachs & Co. KG: *See—*
  Stusack, Hans; and Schulz, Peter, 4,640,167, Cl. 83-649.000.

Franz, Thomas C.: *See—*
  Burr, Donald N.; Danilowicz, Paul S.; Franz, Thomas C.; Mortimer, Thomas P.; and Pero, Edward B., 4,696,156, Cl. 60-39.080.

Franzen, Arne; Albrektsson, Kjell; and Fixell, Jan-Olov, to Aktiebolaget Bofors. Means for reducing spread of shots in a weapon system. 4,655,411, 4-7-87, Cl. 244-3.110.

Franzen, Gillis, to Stubinen Utreckling AB. Device for cleaning liquids in sand filters. 4,655,908, 4-7-87, Cl. 210-87.000.

Franzen, James J.: *See—*
  Forbes, Richard L., II; Franzen, James J.; Solomon, James A.; and Weikel, Donald J., Jr., 4,657,370, Cl. 355-3.0BE.

Franzen, Peter: *See—*
  Inge, Claes; Lagerstedt, Torgny; Borgstroem, Leonard; Carlsson, Claes-Goeran; Naebo, Sven-Olof; Moberg, Hans; and Franzen, Peter, 4,701,158, Cl. 494-74.000.

Franzen, Robert L., to United States of America, Air Force. Shock absorbing device with integral pressure relief valve. 4,674,607, 6-23-87, Cl. 188-282.000.

Franzini, Angelo; and Fricker, Eric, to Fricker France. Single acoustic box with spatial effect for stereophonic musical reproduction systems. 4,704,729, 11-3-87, Cl. 381-24.000.

Franzmann, Giselher: *See—*
  Muller, Hartmut; Huber, Hans; Franzmann, Giselher; and Elmenthaler, Bernd, 4,668,763, Cl. 528-296.000.

Franzmann, Gunter: *See—*
  Cremer, Heinz P.; Wolsiefer, Harald; Hoffmann, Manfred; Deegener, Elmar; and Franzmann, Gunter, 4,713,986, Cl. 74-805.000.
  Deegener, Elmar; Voss, Hans W.; and Franzmann, Gunter, 4,685,739, Cl. 297-452.000.

Franzolini, Luciano, to el.ge Apparecchiature Elettroniche Industriali S.r.l. Tachymetric simulation method processing signals from an inductive position transducer and circuit for carrying out said method. 4,703,391, 10-27-87, Cl. 361-240.000.

Franzolini, Marc; Maria, Edmond; Vanderschaeghe, Alain; and Bezier, Jean, to Stein Industrie. Method of assembly of ferritic stainless steel tubes to a carbon steel tube-plate. 4,665,601, 5-19-87, Cl. 29-157.30C.

Franzolini, Marc; and Marjollet, Jacques, to Stein Industrie. Method of assembly of a steam separator super-heater. 4,675,963, 6-30-87, Cl. 29-157.400.

Franzolini, Marc: *See—*
  Cerdan, Jean-Pierre; Dueymes, Eric; Talleu, Patrick; Carnel, Jea Palacio, Gerard; and Franzolini, Marc, 4,650,578, Cl. 210-197.000.

Frappe, Gerard; and Ortalli, Patrice, to Thomson-CSF. Electric supply. 4,703,250, 10-27-87, Cl. 323-317.000.

Frappier, Edward P.: *See—*
  Hull, Ezekiel H.; and Frappier, Edward P., 4,710,532, Cl. 524-310.000.
  Hull, Ezekiel H.; and Frappier, Edward P., 4,711,922, Cl. 524-310.000.

Frasca, Joseph F. Rotary internal combustion engine. 4,653,44 3-31-87, Cl. 123-244.000.

Frascaroli, Francesco; and Biondi, Carlo, to C.O.M. Cooperativa Operai Metallurgici S.C.R.L. Modular furniture. 4,639,049, 1-27-87, Cl. 312-195.000.

Frase, Dietmar: *See—*
  Boing, Rolf; Frase, Dietmar; and Noeske, Manfred, 4,704,895, Cl. 73-104.000.

Fraser, Dana J.: *See—*
  Daniels, Wilbert E.; and Fraser, Dana J., 4,680,613, Cl. 357-72.00

Fraser, Donald J.: *See—*
  Penny, Steven J.; and Fraser, Donald J., 4,657,300, Cl. 296-173.00

Fraser, Edward C.: *See—*
  Marsh, John L.; Fraser, Edward C.; Rorden, Louis H.; and Baue William H., 4,646,831, Cl. 166-242.000.

Fraser, Gregory A.; and Raab, Simon, to Faro Medical Technologies Inc. Joint laxity measurement. 4,649,934, 3-17-87, Cl. 128-782.00

Fraser, Gregory A.; and Raab, Simon, to Orthotronics Limited Partnership. Dynamometer arrangement. 4,667,520, 5-26-87, Cl. 73-862.04

Fraser, James: *See—*
  Davies, Roy V.; and Fraser, James, 4,710,506, Cl. 514-301.00

Fraser, James M., III; and Coronado, M. P., to Hughes Tool Company Method and device for testing a well bore packer. 4,657,078, 4-14-8 Cl. 166-123.000.

Fraser, John S.; and Sheffield, Richard L., to United States of America Energy. Optically pulsed electron accelerator. 4,715,038, 12-22-8 Cl. 372-2.000.

Fraser-Smith, Elizabeth: *See—*
  Eppstein, Deborah A.; Fraser-Smith, Elizabeth; and Matthews Thomas R., 4,684,625, Cl. 514-19.000.

Fraser, Thomas A., Jr.; and Macfarlane, Andrew R., to Vetco Gray Inc Pipeline pull-in method and apparatus. 4,693,636, 9-15-87, Cl. 405-169.000.

Frass, Michael; Frenzer, Reinhard; and Zahler, Jonas. Respiratory tube or airway. 4,688,568, 8-25-87, Cl. 128-207.150.

Frass, Werner: *See—*
  Mack, Gerhard; Mueller, Birgit; Jung, Guenter; and Frass, Werner 4,716,098, Cl. 430-331.000.

Frassica, James J. Seal device for central sections of wheel halves 4,640,330, 2-3-87, Cl. 152-404.000.

Fratangelo, Louis D., to Xerox Corporation. Sheet rotation and registration vertical transport. 4,669,719, 6-2-87, Cl. 271-251.000.

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  Gatti, Antonio, 4,653,401, Cl. 102-226.000.

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  Li Bassi, Giuseppe; Cadona, Luciano; Nicora, Carlo; and Carlin Carlo, 4,672,079, Cl. 522-35.000.

Fratello, Vincent J.: *See—*
  Brandle, Charles D., Jr.; Fratello, Vincent J.; and Wolfe, Raymond 4,698,820, Cl. 372-41.000.

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  Ahearn, John E.; Frates, Raymond A.; Girard, Dennis; Koepke Richard A.; Schmidt, James K.; and Manon, C. Dodd, 4,716,082 Cl. 428-428.000.

Fratti, Fabio: *See—*
  Zanuso, Marco; and Fratti, Fabio, 4,642,821, Cl. 4-662.000.

Fratty, Hector, to Cibie Projecteurs. Two-headlamp main beam unit for motor vehicles. 4,654,759, 3-31-87, Cl. 362-61.000.

Fratzke, Mark E. Self-leveling fork lift apparatus. 4,708,577, 11-24-87, Cl. 414-635.000.

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Frauenfeld, Martin; and von Wedel, Rudiger, to Kraftanlagen AG. Heat exchanging body. 4,651,811, 3-24-87, Cl. 165-10.000.

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  Illig, Egon; and Kniep, Volkmar, 4,709,912, Cl. 271-42.000.
  Kugler, Hans-Peter; Eisenreich, Norbert; and Liehmann, Wolfgang, 4,685,804, Cl. 356-373.000.
  Muller, Dietmar; and Kremp, Jurgen, 4,713,127, Cl. 149-98.000.

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rayer, Paul D., to Rogers Corporation. Encapsulated electroluminescent lamp. 4,687,968, 8-18-87, Cl. 313-509.000.

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Bachmann, Henry C.; Brown, Omar L.; Fraze, Ermal C.; Wynn, David K.; and Gregg, James R., 4,637,961, Cl. 428-579.000.

Bachmann, Henry C.; Brown, Omar L.; Fraze, Ermal C.; Wynn, David K.; and Gregg, James R., 4,704,887, Cl. 72-347.000.

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razer, Byron T., to Security Call, Inc. Apparatus and method for remotely determining the presence of unauthorized surveillance devices on a communications line. 4,658,099, 4-14-87, Cl. 379-7.000.

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Griffin, John, 4,672,296, Cl. 322-1.000.

Frazer, James W.: *See—*

Boddie, Arthur W., Jr.; Frazer, James W.; and Yamanashi, William S., 4,674,481, Cl. 128-1.300.

Frazer-Nash Limited: *See—*

Griffin, Dennis; and Field, Charles A., 4,660,456, Cl. 89-1.819.

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Griffin, Dennis, 4,678,143, Cl. 244-63.000.

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Adachi, Iwao P.; Adachi, Yoshifumi; and Frazer, Robert E., 4,692,003, Cl. 351-212.000.

Frazier, Clifton L. Method and apparatus for holding an electrical device proximate to a side rail of a bed. 4,672,703, 6-16-87, Cl. 5-503.000.

Frazier, David E.: *See—*

Smith, Jeffrey T.; Frazier, David E.; and Leonardson, Ronald B., 4,675,820, Cl. 364-453.000.

Frazier, Gary A.; Frensley, William R., and Reed, Mark A., to Texas Instruments Incorporated. Spatial light modulator. 4,705,361, 11-10-87, Cl. 350-355.000.

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Frazier, Stanley J.; and Sorenson, Blaine. Portable and collapsible stair. 4,711,282, 12-8-87, Cl. 182-106.000.

Frazier, Stanley J.: *See—*

Norman, Dan A.; and Frazier, Stanley J., 4,675,029, Cl. 55-11.000.

Frazier, Thomas A.; and Lowe, Allen D., to Ortho Pharmaceutical Corporation. Pill dispenser. 4,646,936, 3-3-87, Cl. 221-5.000.

Frazier, Thomas A.; and Lowe, Allen D., to Ortho Pharmaceutical Corporation. Tablet dispenser. 4,667,845, 5-26-87, Cl. 221-5.000.

Frazier, Thomas G. Static dissipative grounding strap. 4,677,521, 6-30-87, Cl. 361-220.000.

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Frazzell, Michael E.; and Karls, Michael A., to Brunswick Corporation. Water inlet for outboard propulsion unit. 4,636,175, 1-13-87, Cl. 440-88.000.

Frazzell, Michael E.; and Snyder, Richard H., to Brunswick Corporation. Shock absorbing propeller. 4,642,057, 2-10-87, Cl. 440-52.000.

Freakley, Philip K.; Matthews, Bernard R.; and Giffin, Henry D. Mixing polymers such as rubber. 4,657,871, 4-14-87, Cl. 436-55.000.

Frear, David L., to Allied Corporation. Releasing electrical connector assembly. 4,645,282, 2-24-87, Cl. 339-45.00M.

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Gallusser, David O.; and Frear, David L., 4,641,811, Cl. 249-122.000.

Frearson, William H., to Avdel Limited. Breakstem fastener installation tool. 4,648,258, 3-10-87, Cl. 72-391.000.

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Frease, Jerry, to Eastern Co., The. Combined resin-mechanical mine roof bolt anchor. 4,664,561, 5-12-87, Cl. 405-261.000.

Freber, Elmer C., to Marquette Tool & Die Company. Adjustable head restraint for vehicular seats. 4,682,817, 7-28-87, Cl. 297-408.000.

Freberg, Dana D.; and Spencer, William R., to General Electric Company. Turbomachine airflow temperature sensor. 4,710,095, 12-1-87, Cl. 415-48.000.

Freberg, Michael S.: *See—*

Alexander, Phillip W.; Freberg, Michael S.; Howell, Keith A.; and Johnston, James E., 4,650,259, Cl. 305-10.000.

Frech, Anton; and Riser, Georg, to CWA Constructions SA. Cabin for accommodating passengers. 4,655,144, 4-7-87, Cl. 105-341.000.

Frechet, Jean M. J.; Ito, Hiroshi; MacDonald, Scott A.; and Willson, Carlton G., to International Business Machines Corporation. Positive tone oxygen plasma developable photoresist. 4,657,845, 4-14-87, Cl. 430-326.000.

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Frechinger, Wolfgang: *See—*

Eibl, Johann; Schwarz, Otto; Elsinger, Fritz; Wober, Gunter; Philapitsch, Anton; Linnau, Yendra; Dorner, Friedrich; Trambauer, Karl; and Frechinger, Wolfgang, 4,640,834, Cl. 424-94.000.

Fred Vatter Strumpffabriken Schongau-Altenstadt GmbH: *See—*

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Frede, Dieter, to Condor Werk Gebr. Frede GmbH & Co. KG. Float switch using foam body for floatability. 4,692,576, 9-8-87, Cl. 200-84.00R.

Fredeking, Terry M. Method for avoiding mistakes during plasmapheresis. 4,678,458, 7-7-87, Cl. 604-6.000.

Fredell, Jan; and Hannerz, Kare, to AB ASEA ATOM. Means for cooling a heat-generating device. 4,666,661, 5-19-87, Cl. 376-299.000.

Fredenburgh, Evan A.: *See—*

Matuska, David G.; and Fredenburgh, Evan A., 4,695,341, Cl. 156-161.000.

Fredenucci, Pierre, to Arjomari-Prioux. Process for the treatment of a fibrous sheet obtained by papermaking process, with a view to improving its dimensional stability, and application of said process to the field of floor and wall-coverings. 4,710,422, 12-1-87, Cl. 428-248.000.

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Frederick, Gary L.; and Null, Robert A., to Garrett Corporation, The. Rolling element jackscrew. 4,655,100, 4-7-87, Cl. 74-424.80C.

Frederick, Harold H.: *See—*

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Frederick Manufacturing Company, Inc.: *See—*

Francis, John H.; and Van DerLinden, Roy E., 4,682,517, Cl. 74-796.000.

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Frederick, Philip R. Three-dimensional light guidance system for invasive procedures. 4,651,732, 3-24-87, Cl. 128-303.00R.

Frederick, Philip R. Shoulder retraction device. 4,674,483, 6-23-87, Cl. 128-68.000.

Frederick, Raymond L. Combination sawhorse and sawbuck. 4,638,885, 1-27-87, Cl. 182-151.000.

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Frederick, Wayne L.: *See—*

Donecker, S. Bruce; Stewart, Ronald D.; and Frederick, Wayne L., 4,641,085, Cl. 324-77.00R.

Fredericks, Barbara A. Teaching apparatus. 4,636,172, 1-13-87, Cl. 434-159.000.

Fredericks, Chester P. Thermally insulative self-supporting panel. 4,638,616, 1-27-87, Cl. 52-397.000.

Fredericks, Edward C.; and Nanda, Madan M., to International Business Machines Corporation. Semiconductor contact protection. 4,640,738, 2-3-87, Cl. 156-656.000.

Fredericks, Kenneth J.; Guerriero, Thomas W.; Miracle, Gerald H.; and Wiegand, Michael R., to International Business Machines Corp. Serial channel interface with method and apparatus for handling data streaming and data interlocked modes of data transfer. 4,712,176, 12-8-87, Cl. 364-200.000.

Fredericks, Peter M.: *See—*

Swinkels, Dominicus A.; Fredericks, Peter M.; and Osborn, Paul R., 4,701,838, Cl. 364-164.000.

Fredericks, Walter A.; and McCullough, Edward W., to Rexnord Inc. Torsional stress distribution flexible coupling. 4,690,661, 9-1-87, Cl. 464-78.000.

Frederickson, Gary H.: *See—*

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Frederickson, James R., to United States of America, Energy. Fabrication of high exposure nuclear fuel pellets. 4,637,900, 1-20-87, Cl. 252-643.000.

Frederiksen, Erling, to Aktieselskabet Bruel & Kajaer. Acoustic calibration device. 4,715,219, 12-29-87, Cl. 73-1.0DV.

Frederiksen, Jeffrey E. Video transmission system. 4,682,360, 7-21-87, Cl. 380-10.000.

Frederiksen, Jeffrey E., to Bally Manufacturing Corporation. Position transducer system for a joystick. 4,685,678, 8-11-87, Cl. 273-148.00B.

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Fredholm, Allan; Davidson, James H.; Khan, Tasadduq; and Theret, Jean-Mare C. F., to Association pour la Recherche et le Developpement des Methodes et Processus Industriels (A.R.M.I.N.E.S.); Societe Imphy S.A.; Office National d'Etudes et de Recherches Aerospatiales (ONERA); and Societe Nationale d'Etude et de Construction de Moteurs d'Aviation "S.N.E.C.M.A.". Monocrystalline alloy with a nickel matrix basis. 4,639,280, 1-27-87, Cl. 148-404.000.

Fredkin, Edward. Filtration apparatus. 4,645,599, 2-24-87, Cl. 210-416.100.

Fredrick, Jerome F., to Dodge Chemical Company, The. Antimicrobial compositions. 4,675,327, 6-23-87, Cl. 514-383.000.

Fredricks, Cheryl A.: *See—*
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Fredrickson, Eric, to C&K Components, Inc. Key lock switch with antistatic means. 4,639,562, 1-27-87, Cl. 200-43.060.
Fredriksen, Herbert A.; Walter, Richard K.; and Mentzer, Ronald B., to FMW Corporation. Laser communication system. 4,662,004, 4-28-87, Cl. 455-607.000.
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Benestad, Otto; Hatteland, Kjell; and Fredriksen, Paul, 4,635,237, Cl. 367-20.000.
Fredriksson, Tommy, to Kanthal AB. Method of manufacturing loop-formed metal foil elements. 4,642,887, 2-17-87, Cl. 29-611.000.
Free, Terard L. Roofing cleat construction. 4,635,383, 1-13-87, Cl. 36-7.600.
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Freed, Edward E., and Dowd, Kenneth D. Pressure-monitoring system. 4,658,986, 4-21-87, Cl. 222-52.000.
Freed, Mark L., to Diversco, Inc. Stringed musical instruments with magnetic pickups. 4,697,492, 10-6-87, Cl. 84-1.160
Freed, Marvin, to Brass-Craft Manufacturing Company. Flapper flush valve assembly. 4,698,859, 10-13-87, Cl. 4-393.000
Freed, Meier E.: *See—*
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Freedman, Arnold; Nadler, Lee; and Schlossman, Stuart, to Dana-Farber Cancer Institute, Inc. Monoclonal antibodies to antigen on activated human B-cells and assay therefor, protein antigenic determinant therefor and method of making same. 4,692,405, 9-8-87, Cl. 435-7.000.
Freedman, David; and Zhenbin, Zheng, to New Brunswick Scientific Co., Inc. Agitator for a fermentation and tissue culturing vessel. 4,634,675, 1-6-87, Cl. 435-286.000
Freedman, David D.: *See—*
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Freedman, Melvin S., to Avery International Corporation. Composite facestocks and liners. 4,713,273, 12-15-87, Cl. 428-40.000.
Freedman, Morton: *See—*
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Schott, Roger A.; and Schott, Lawrence A., 4,716,502, Cl. 362-72.000.
Freelain, Kenneth W. Water pipe. 4,682,610, 7-28-87, Cl. 131-173.000.
Freeland, Bruce E.; and Salerno, John C., to Goulds Pumps, Incorporated. Pump having a bushing removal mechanism. 4,661,044, 4-28-87, Cl. 415-201.000.
Freeland, John P.; and Mullins, Patrick S., to Freeland, John Paul. Multiple arm target launcher. 4,699,116, 10-13-87, Cl. 124-7.000.
Freeland, John Paul: *See—*
Freeland, John P.; and Mullins, Patrick S., 4,699,116, Cl. 124-7.000.
Freeman, Amihay; and Tor, Ruth, to Ramot University Authority for Applied Research and Industrial Development Ltd. Enzyme membranes for electrodes. 4,659,665, 4-21-87, Cl. 435-182.000.
Freeman, Bruce E., to National Research Development Corporation. Fluent material container with filling and exhaust ports and method of filing same. 4,665,956, 5-19-87, Cl. 141-5.000.
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Freeman, Christopher, to Rolls-Royce plc. Rotor or stator blades for an axial flow compressor. 4,671,738, 6-9-87, Cl. 416-223.00A.
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Werner, John W., 4,661,751, Cl. 318-332.000.
Freeman, Ernest A., to Wang Laboratories, Inc. Context redundancy text compression. 4,672,679, 6-9-87, Cl. 382-40.000.
Freeman, Floyd. Portable wood processing machine. 4,685,495, 8-11-87, Cl. 144-3.00K.
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Freeman, Gerard L.: *See—*
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Freeman, Herbert J., to Progressive Tool & Industries Company. Apparatus for assembling radiator components. 4,637,133, 1-20-87, Cl. 29-727.000.
Freeman, Jerry H., to ROL Industries Inc. Slip ring assembly and method of making. 4,645,962, 2-24-87, Cl. 310-232.000.
Freeman, Jerry H. Slip ring assembly for method of making same. 4,684,179, 8-4-87, Cl. 439-27.000.
Freeman, John J.: *See—*
Sing, Kenneth S. W.; Gimblett, Frederick G. R.; and Freeman, John J., 4,699,896, Cl. 502-423.000.
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Freeman, Kenneth F.; Garrett, Charles B.; Harra, David J.; and Lei, Lawrence C., to Varian Associates, Inc. Planar magnetron sputtering device with combined circumferential and radial movement of magnetic fields. 4,714,536, 12-22-87, Cl. 204-298.000.
Freeman, Leo B., to International Business Machines Corporation. High voltage swing open collector driver. 4,677,312, 6-30-87, Cl. 307-200.00A.
Freeman, LeRoy M., to Slater Electric Inc. Electronic detection circuit for a ground fault circuit interrupter. 4,688,133, 8-18-87, Cl. 361-45.000.
Freeman, LeRoy M.; Gernhardt, Paul D.; and Orbeta, Ferdinand E., to Slater Electric Inc. Ground fault circuit interrupter and electronic detection circuit. 4,688,134, 8-18-87, Cl. 361-45.000.
Freeman, Martin; and Kaplinsky, Cecil H., to Signetics. Guarded regions for controlling memory access. 4,677,546, 6-30-87, Cl. 364-200.000.
Freeman, Maurice E.: *See—*
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Freeman, Michael A. R., to Finsbury (Instruments) Limited. Hip implant. 4,670,015, 6-2-87, Cl. 623-23.000.
Freeman, Michael H., to Pilkington P.E. Limited. Multifocal contact lenses utilizing diffraction and refraction. 4,637,697, 1-20-87, Cl. 351-161.000.
Freeman, Michael H., to Pilkington P.E. Limited. Ophthalmic lens with diffractive power. 4,641,934, 2-10-87, Cl. 351-159.000.
Freeman, Michael H., to Pilkington P.E. Limited. Artificial eye lenses. 4,642,112, 2-10-87, Cl. 623-6.000.
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Freeman, Richard B., to Gainesville 1920 Corporation, The. Yogurt separator device. 4,680,117, 7-14-87, Cl. 210-469.000.
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Freeman, Ross H., to Zilog, Inc. Integrated circuit programmable cross-point connection technique. 4,670,749, 6-2-87, Cl. 340-825.850.
Freeman, Thomas R.; Wilson, John F.; and Knott, Ronald P., to Westinghouse Electric Corp. Reversible BWR fuel assembly and method of using same. 4,655,995, 4-7-87, Cl. 376-267.000.
Freeman, Thomas R., to Westinghouse Electric Corp. Nuclear reactor control rod cluster for enthalpy rise compensation. 4,678,628, 7-7-87, Cl. 376-333.000.
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Freeman, Thurman W., to Dow Chemical Company, The. Insulated roofing system with water repellent fabric. 4,669,246, 6-2-87, Cl. 52-408.000.
Freeman, William R.: *See—*
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Freeman, William T., to Polaroid Corporation. Method and apparatus for reconstructing missing color samples. 4,663,655, 5-5-87, Cl. 358-41.000.
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- Weston, Charles W.; and Mandel, Frederick S., 4,704,136, Cl. 48-197.00R.

reeport Minerals Company: *See—*

- Astley, Vivian C.; and Taravella, Jody J., 4,710,366, Cl. 423-321.00R.
- Bradford, Randol W.; Hiller, Alfred E.; and Winters, Burnham F., Jr., 4,671,833, Cl. 156-86.000.
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- Mollere, Phillip D.; Astley, Vivian C.; and Taravella, Jody J., 4,657,559, Cl. 23-297.000.
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- Lindemans, Willem; and Aaltonen, Lauri J., 4,712,607, Cl. 165-30.000.

rega, John: *See—*

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rei & Egger AG: *See—*

- Frei, Peter, 4,705,258, Cl. 249-27.000.

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rei, Hans-Peter: *See—*

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rei, Matthias, to Elpatronic AG. Device for applying a protective coating to the weld or solder seam of a can body. 4,674,435, 6-23-87, Cl. 118-69.000.

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rei, Siegfried, to Cantec, Inc. Method for bringing together the edges of a blank of sheet metal rolled to a cylinder as well as a guide apparatus for performing the method. 4,635,841, 1-13-87, Cl. 228-147.000.

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reiberg, Alan L.: *See—*

- Bauman, Therese M.; and Freiberg, Alan L., 4,624,733, Cl. 524-859.000.
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- Bock, Mark G.; DiPardo, Robert M.; Boger, Joshua S.; Evans, Ben E.; and Freidinger, Roger, 4,636,491, Cl. 514-16.000.
- Veber, Daniel F.; and Freidinger, Roger, 4,680,283, Cl. 514-17.000.

Freidinger, Roger M.: *See—*

- Bock, Mark G.; Evans, Ben E.; and Freidinger, Roger M., 4,663,321, Cl. 514-220.000.
- Veber, Daniel F.; and Freidinger, Roger M., 4,659,691, Cl. 514-11.000.

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Freiheit, Artur: *See—*

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Freilich, Alfred: *See—*

- Bose, Debasis; and Freilich, Alfred, 4,658,537, Cl. 228-263.150.
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Freiling, Albert J., to United States of America, Army. Explosively activated impact switch with interlocking contacts. 4,674,406, 6-23-87, Cl. 102-216.000.

Freiman, Oscar H.: *See—*

- Paschal, James H., Jr.; Freiman, Oscar H.; and Kernal, Dickie L., 4,685,523, Cl. 166-378.000.

Freimanis, Yanis F.: *See—*

- Bezuglov, Vladimir V.; Bergelson, Lev D.; Lakin, Kapiton M.; Makarov, Vladimir A.; Kovalev, Sergei G.; and Freimanis, Yanis F., 4,665,214, Cl. 560-121.000.

Freimann, Paul: *See—*

- Wallner, Felix; Krier, Adam; Lugscheider, Walter; Uckert, Gotthard; and Freimann, Paul, 4,651,656, Cl. 110-346.000.

Freimark, Bruce: *See—*

- Marsico, Ronald; and Freimark, Bruce, 4,686,325, Cl. 174-40.00R.

Freimiller, Gary L.: *See—*

- Tyrell, John A.; and Freimiller, Gary L., 4,661,567, Cl. 525-468.000.

Freimuth, Martin: *See—*

- Knauer, Joachim F.; and Freimuth, Martin, 4,711,625, Cl. 425-549.000.

Freis, Richard E.: *See—*

- Maloney, James F.; Freis, Richard E.; and Oakes, Thomas R., 4,643,800, Cl. 162-5.000.

Freisen, Ludger; Kess, Helmut; Krause, Norbert; and Meissner, Ralph, to Siemens Aktiengesellschaft. Nuclear magnetic resonance tomography apparatus. 4,701,710, 10-20-87, Cl. 324-318.000.

Freisinger, Henry; and Stritzl, Karl, to TMC Corporation. Adjusting device for ski bindings. 4,699,397, 10-13-87, Cl. 280-633.000.

Freisinger, Henry: *See—*

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Freitag, Dieter: *See—*

- Idel, Karsten; Ostlinning, Edgar; Freitag, Dieter; and Alewelt, Wolfgang, 4,661,584, Cl. 528-388.000.
- Kauth, Hermann; Bosshammer, Hubert; Schmidt, Manfred; and Freitag, Dieter, 4,668,720, Cl. 524-86.000.
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- Schmidt, Manfred; Paul, Winfried; Freitag, Dieter; and Rathmann, Dietrich, 4,681,922, Cl. 525-474.000.
- Serini, Volker; Schulte, Bernhard; Waldenrath, Werner; Freitag, Dieter; Hucks, Uwe; Wank, Joachim; and Weber, Hans-Leo, 4,654,411, Cl. 528-176.000.
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Freitag, Hans-Albrecht: *See—*

- Haas, Peter; Freitag, Hans-Albrecht; Avar, Geza; Sommerfeld, Claus-Dieter; and Illger, Hans-Walter, 4,644,017, Cl. 521-129.000.
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Freitag, Herbert; Fuhrmann, Castor; and Kortgen, Bernd, to Stabilus GmbH. Temperature-compensated gas spring. 4,651,979, 3-24-87, Cl. 267-64.130.

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- Weiner, Sheldon; Brook, Sherwin A.; and Freitag, Michael G., 4,677,653, Cl. 379-58.000.

Frejborg, Frey: *See—*

- Lampenius, Harry; and Frejborg, Frey, 4,676,903, Cl. 210-413.000.

Frejd, Torbjorn: *See—*

- Dahmen, Jan; Frejd, Torbjorn; Magnusson, Goran; and Noori, Ghazi, 4,675,392, Cl. 536-17.600.

Fremaux, Jacques: *See—*

- Villain, Jean-Marie; and Fremaux, Jacques, 4,692,180, Cl. 65-32.000.

Fremd, Rainer, to Daimler-Benz Aktiengesellschaft. Apparatus for measuring the mass of a motor vehicle. 4,656,876, 4-14-87, Cl. 73-865.000.

Fremerey, Johan K.; and Lindenau, Bernd, to Kernforschungsanlage Julich Gesellschaft mit beschrankter Haftung. Coil system for inductive measurement of the velocity of movement of a magnetized body. 4,658,658, 4-21-87, Cl. 74-5.60E.

Fremgen, Dieter: *See*—
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Fremion, Edwin A., to Westvaco Corporation. Air cooled slotter and slitter blade cutting edges. 4,643,060, 2-17-87, Cl. 83-171.000.

Fremont, Henry A.; and Dorman, William C., to Champion International Corporation. Continuous dewatering apparatus. 4,671,874, 6-9-87, Cl. 210-243.000.

Fremont, Michael J., to Hewlett-Packard Company. Method and apparatus for fault recovery within a computing system. 4,703,481, 10-27-87, Cl. 371-12.000.

Fremont, Owen K.: *See*—
  St. Angelo, Stephen; Carver, George C.; Patterson, David W.; and Fremont, Owen K., 4,715,110, Cl. 29-701.000.

Fremont Special Machine Co., Inc.: *See*—
  Simonton, R. D.; Cattano, John D.; and Mason, Robert K., 4,678,729, Cl. 429-129.000.
  Simonton, Robert D.; and Breese, Douglas E., 4,663,253, Cl. 429-129.000.
  Simonton, Robert D.; Cattano, John D.; and Mason, Robert K., 4,679,316, Cl. 29-731.000.
  Simonton, Robert D., and Breese, Douglas E., 4,680,242, Cl. 429-136.000.

Fremy, Raoul. Automatically-operated self-sealing zero-spillage fluid coupling device. 4,664,149, 5-12-87, Cl. 137-614.060.

Fremy, Raoul. Fast connection with radially acting bolt. 4,703,958, 11-3-87, Cl. 285-316.000.

French, Dale T.: *See*—
  Silcott, Terry L.; and French, Dale T., 4,712,687, Cl. 206-600.000.

French, Daniel B.; Brookshire, Richard E.; and Schnelle, Joseph W., to Cincinnati Milacron Inc. Control system for program controlled manipulator having multiple triggered functions between programmed points. 4,685,067, 8-4-87, Cl. 364-513.000.

French, Hartley A.; and Richardson, Anthony C. Apparatus for observing the passage of a pig in a pipeline. 4,714,888, 12-22-87, Cl. 324-326.000.

French, Herbert A., to United Kingdom of Great Britain and Northern Ireland, The Secretary of State for Defence in Her Britannic Majesty's Government of the. Apparatus and method for remote sensing of gases, vapors or aerosols. 4,676,642, 6-30-87, Cl. 356-346.000.

French, James C.: *See*—
  Bigge, Christopher F.; Elslager, Edward F.; French, James C.; Graham, Blanche D.; Hokanson, Gerard C.; Mamber, Stephen W.; Smitka, Tim A.; Tunac, Josefino B.; and Wilton, John H., 4,657,909, Cl. 514-249.000.
  Bunge, Richard H.; French, James C.; Hurley, Timothy R.; and Willmer, Neil E., 4,696,794, Cl. 424-118.000.
  Hokanson, Gerard C.; Bunge, Richard H.; Hurley, Timothy R.; and French, James C., 4,680,416, Cl. 549-292.000.
  Schaumberg, John P.; Hokanson, Gerard C.; French, James C.; Tunac, Josefino B.; and Underhill, Marjorie A., 4,713,372, Cl. 514-45.000.
  Wilton, John H.; Hokanson, Gerard C.; and French, James C., 4,661,353, Cl. 424-123.000.

French, James R., to United States of America, National Aeronautics and Space Administration. Jet pump-drive system for heat removal. 4,699,754, 10-13-87, Cl. 376-299.000.

French Joint Stock Company "L'Oreal"The: *See*—
  Goncalves, Antonin, 4,693,366, Cl. 206-222.000.

French, Karen J.: *See*—
  Smith, Mark G.; French, Karen J.; Zeller, David A., Jr.; Hargrave, Franklin; and Middleton, Francisco A., 4,654,869, Cl. 379-107.000.

French, Kenneth W.: *See*—
  Bandyopadhyay, Gautam; and French, Kenneth W., 4,704,242, Cl. 264-234.000.
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French, Lloyd S., administrator: *See*—
  Bernstein, David H.; Buckley, Edward M.; March, Roger W.; and Gusowski, Ronald L., deceased, 4,649,470, Cl. 364-200.000.

French, Michael P.: *See*—
  Testin, William J.; and French, Michael P., 4,641,064, Cl. 315-411.000.
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French, Richard C.: *See*—
  Marshall, Christopher B.; and French, Richard C., 4,713,563, Cl. 307-490.000.

French, Steven J.; and Neasham, David L., to Thorn EMI Electronics Limited. Electrical apparatus. 4,713,652, 12-15-87, Cl. 340-652.000.

French, William, to Eastman Kodak Company. Slotted sensor in yoke-type magneto-resistive head. 4,644,430, 2-17-87, Cl. 360-113.000.

French, William S., to Tensor Geophysical Service Corporation. Method for determining the absolute location of a streamer incorporating a reference signal system where the a priori location of the reference signal source (or alternatively the detector) need not be known. 4,660,185, 4-21-87, Cl. 367-19.000.

French, William W., to Eastman Kodak Company. Sputtering method of making thin film head having improved saturation magnetization. 4,705,613, 11-10-87, Cl. 204-192.200.

Frenchik, Mary T.: *See*—
  Mazzocco, Thomas R.; and Frenchik, Mary T., 4,715,373, Cl. 128-303.00R.

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  Bellus, Peter A.; and Frenchik, Robert A., 4,670,374, Cl. 430-505.000.

Frenette, Richard; Rokach, Joshua; Kakushima, Masatoshi; and Young, Robert N., to Merck Frosst Canada, Inc. Leukotriene antagonists. 4,683,325, 7-28-87, Cl. 560-10.000.

Frenger, Paul: *See*—
  Alexander, William B.; and Frenger, Paul, 4,642,783, Cl. 364-551.000.

Frenger Troughton Limited: *See*—
  Smith, Ian W., 4,646,500, Cl. 52-489.000.
  Smith, Ian W., 4,671,033, Cl. 52-220.000.

Freni, Joseph L., Jr.; and Ardito, John D., to Wang Laboratories, Inc. Tilt apparatus for a display monitor. 4,708,313, 11-24-87, Cl. 248-649.000.

Frenier, Wayne W.; and Wilson, David A., to Dowell Schlumberger Incorporated. Aqueous acid composition and method of use. 4,636,327, 1-13-87, Cl. 252-87.000.

Frenkel, Ayala: *See*—
  Stanford, John L.; Cohen, Irun R.; Frenkel, Ayala; Holoshitz, Joseph; van Eden, Willem; and Rook, Graham A. W., 4,716,038, Cl. 424-92.000.

Frenkel, Robert L.: *See*—
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Frenken, Hans: *See*—
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Frenna, Joseph: *See*—
  Tang, Wai-Cheung; Frenna, Joseph; and Siu, David, 4,644,305, Cl. 333-208.000.

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Frensch, Adrianus J.: *See*—
  Kraus, Uwe E.; Boudewijns, Arnoldus J. J.; Boon, Cornelis A. M.; and Frensch, Adrianus J., 4,672,449, Cl. 358-148.000.

Frensley, William R.: *See*—
  Frazier, Gary A.; Frensley, William R.; and Reed, Mark A., 4,705,361, Cl. 350-355.000.

Frentzel-Beyme, Johannes; and Stenmans, Heinz, to Palitex Project-Company GmbH. Thread brake mechanism for a spindle assembly of a thread processing machine. 4,711,081, 12-8-87, Cl. 57-279.000.

Frentzel, Herman E., to Arneson Products, Inc. Automatic valve for use with pool cleaning devices. 4,643,217, 2-17-87, Cl. 137-112.000.

Frentzel, Herman E., to Arneson Products, Inc. In-line filter for a low pressure pool cleaning system. 4,654,141, 3-31-87, Cl. 210-232.000.

Frenyo, Paul, to Paurat GmbH. Shear-type loader for a tunnel and gallery excavator. 4,664,448, 5-12-87, Cl. 299-67.000.

Frenzer, Reinhard: *See*—
  Frass, Michael; Frenzer, Reinhard; and Zahler, Jonas, 4,688,568, Cl. 128-207.150.

Frenznick, Anton; Just, Bernhard; Krauss, Eugen; Pfander, Werner; and Trankle, Ewald, to Robert Bosch GmbH. Electrical connection system. 4,674,816, 6-23-87, Cl. 439-588.000.

Frenznick, Anton: *See*—
  Buchschmid, Emil; Frenznick, Anton; Neidhard, Klaus; and Robl, Gerhard, 4,652,818, Cl. 324-174.000.

Frequency Electronics, Inc.: *See*—
  Warner, Arthur W.; and Goldfrank, Bruce, 4,701,661, Cl. 310-360.000.

Frere, Ronald J.: *See*—
  Clarkson, Bruce A.; Frere, Ronald J.; Loughlin, Thomas G.; Taylor, William W., Jr.; and Mongeau, Peter, 4,712,398, Cl. 70-276.000.

Frerich, Josef, to Deere & Company. Housing for holding a supply roll of large round bale wrap material. 4,691,503, 9-8-87, Cl. 53-587.000.

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  Anstey, Henry D.; Frimml, Roger W.; and Frerich, Josef, 4,697,402, Cl. 53-506.000.

Frerichs, Udo: *See*—
  Rach, Heinz-Dieter; Klose, Hans-Ulrich; and Frerichs, Udo, 4,635,697, Cl. 152-544.000.
  Rach, Heinz-Dieter; and Frerichs, Udo, 4,696,333, Cl. 152-379.300.

Fres-co System USA, Inc.: *See*—
  Goglio, Luigi, 4,667,453, Cl. 53-415.000.
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Fresard, Marcel; Plomb, Francis; and Court, Pierre, to Mefina SA. Machine for working materials such as wood, metal and plastic. 4,649,608, 3-17-87, Cl. 29-26.00A.

Fresch, Henry D.; and Hurt, Steven E., to Goodyear Tire & Rubber Company, The. Method of forming an airspring with pneumatic fitting. 4,715,107, 12-29-87, Cl. 29-436.000.

Freschi, Claudio: *See*—
  Oreglia, Aurelio; Botto, Paolo; and Freschi, Claudio, 4,680,340, Cl. 525-72.000.

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Neumann, Hans-Jurgen; Meisberger, Artur; and Weber, Wolfram, 4,675,117, Cl. 210-789.000.
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h, Michael J.: *See—*
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ia, E. James: *See—*
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nel, Jacques, to Sleever International. Machine for placing sleeve
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nel, Jean-Marie: *See—*
de Nora, Vittorio; Gauger, Jurgen F.; Fresnel, Jean-Marie; Adorian, Iudita L.; and Duruz, Jean-Jacques R., 4,650,552, Cl. 204-67.000.
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squez, Chris J.: *See—*
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tter, Richard B. Bicycle storage system. 4,700,845, 10-20-87, Cl.
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ies, Inc. Signal detection and discrimination using waveform peak
actor. 4,696,031, 9-22-87, Cl. 379-386.000.
eudenberg, Steffen, to Audi AG. Vehicle window installation.
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clip-shaped holder for elongated articles. 4,682,748, 7-28-87, Cl.
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KG Hueck & Co. Automotive headlight. 4,682,274, 7-21-87, Cl.
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ner, Emerich, to Steyr-Daimler-Puch AG. Fuel injection nozzle for
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  - Arndt, Friedrich-Karl; and Fritz, Karlheinz, 4,646,854, 173-134.000.
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  - El-Allawy, Mohammed, 4,698,136, Cl. 203-11.000.
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  Wagner, Fritz, 4,651,769, Cl. 137-246.130.

Friedrich, Hans, deceased; and Friedrich, Pauline, legal representative, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Contact jaw for an electrode mount. 4,700,356, 10-13-87, Cl. 373-101.000.

Friedrich, Hans-Helmut: *See*—
  Wirth, Hermann O.; Muller, Klaus; and Friedrich, Hans-Helmut, 4,689,162, Cl. 252-32.70E.

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  Burger, Kurt; Friedrich, Heinz; Molkner, Thomas; and Schottle, Peter, 4,708,769, Cl. 156-659.100.

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  Reinmold, Heinz-Josef; Mucha, Horst; and Friedrich, Heinz-Dieter, 4,648,210, Cl. 51-165.770.

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  Wenning, Hans-Peter; Friedrich, Joachim; and Pontow, Bernd, 4,666,397, Cl. 431-160.000.

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Friedrich, Karl; and Lanzer, Heribert, to Steyr-Daimler-Puch AG. Drive system for motor vehicles. 4,700,800, 10-20-87, Cl. 180-249.000.

Friedrich, Karl: *See*—
  Stockmar, Jurgen; and Friedrich, Karl, 4,683,997, Cl. 192-58.00C.

Friedrich, Ludwig: *See*—
  Rossy, Phillip A.; Thyes, Marco; Franke, Albrecht; Koenig, Horst; Lehmann, Hans Dieter; Gries, Josef; Friedrich, Ludwig; and Lenke, Dieter, 4,636,504, Cl. 514-252.000.

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  Suresh, Dev D.; Zagata, Robert J.; Friedrich, Maria S.; and Seely, Michael J., 4,659,689, Cl. 502-311.000.

Friedrich, Marju L.: *See*—
  Schoenberg, Andrew J.; and Friedrich, Marju L., 4,642,321, Cl. 523-400.000.
  Swiggett, Brian E.; Morino, Ronald; Keogh, Raymond J.; Crowell, Jonathan C.; Czenczy, George; Schoenberg, Andrew J.; and Friedrich, Marju L., 4,711,026, Cl. 29-850.000.

Friedrich Maurer Sohne GmbH & Co. KG: *See*—
  Buckenauer, Gunter, 4,674,912, Cl. 404-56.000.

Friedrich, Paul H.: *See*—
  Kabb, Harold L.; Flint, John R.; Videlock, Gary B.; Niazi, Ishfaq A.; Hendrickson, Kenneth L.; Slutsky, Gary S.; Schwalb, Stuart F.; Carroll, John J.; and Friedrich, Paul H., 4,699,504, Cl. 355-20.000.

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  Ebeling, Joachim; Friedrich, Peter; Jekat, Herbert; Lugscheider, Walter; Riegler, Ernst; Zajicek, Ernst; Achleitner, Walter; and Jarema, Ferdinand, 4,644,557, Cl. 373-22.000.

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  Fairchok, William J.; Friedrich, Ralph E.; Thill, Bruce P.; and McKinley, Mark J., 4,694,050, Cl. 525-411.000.

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  Riemer, Heinz; and Friedrich, Werner, 4,675,026, Cl. 44-51.000.

Friedrich Wilh. Schwing GmbH: *See*—
  Guthoff, Wilfred, 4,639,183, Cl. 414-705.000.
  Schwing, Friedrich, 4,681,022, Cl. 91-471.000.
  von Eckardstein, Karl-Ernst, 4,708,288, Cl. 239-9.000.

Friedrich, Wolfgang; Kiener, Heinz; Lucking, K. A.; and Stork, Josef, to SKF GmbH. Arrangement for fastening a rolling bearing in a housing. 4,647,230, 3-3-87, Cl. 384-510.000.

Friedrichs, Manfred; and Bohm, Michael, to Dr. C. Otto & Comp. GmbH. System for latching a leveling door. 4,655,488, 4-7-87, Cl. 292-66.000.

Friedrichs, Michael: *See*—
  Hilzinger, Hans-Rainer; Nilius, Hans-Joachim; and Friedrichs, Michael, 4,703,550, Cl. 29-527.600.

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  Hildner, Knut, 4,682,797, Cl. 285-40.000.

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  Koepke, Gunther; Frenken, Hans; and Friedsam, Josef, 4,673,782, Cl. 219-10.55M.

Friedwald, David, to Polycast Technology Corporation. Fastening system for interconnecting sheets of plastic materials including glass. 4,707,894, 11-24-87, Cl. 24-459.000.

Friehauf, William J.; Janssen, Donovan M.; Kirton, Alan J.; Murphy, Robert M.; and Rose, Leroy, to International Business Machines Corporation. Flexible disk drive optimized for automated manufacture. 4,636,892, 1-13-87, Cl. 360-97.000.

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  Hiltz, Ralph H.; Greer, John S.; and Friel, Joseph V., 4,713,182, Cl. 252-3.000.

Frieling, Edward. Identification device and method. 4,669,487, 6-2-87, Cl. 128-774.000.

Frielinghaus, Walter S.: *See—*
  Klupfel, Olaf; Frielinghaus, Walter S., and Scholz, Erhard, 4,648,646, Cl. 294-106.000.

Friemel, Wolfgang, to Dr. Werner Freyberg Chemische Fabrik Delitia Nachf. Process and apparatus for treating bulk commodities. 4,651,463, 3-24-87, Cl. 43-125.000.

Friend, Beverly A.; Gierhart, Dennis L.; and O'Brien, Judy K., to Ralston Purina Company. Process for reducing the level of objectionable flavors in vegetable protein by microorganism contact. 4,642,236, 2-10-87, Cl. 426-44.000.

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Friend, Kenneth D., to Deere & Company. Article or seed counter. 4,635,215, 1-6-87, Cl. 364-555.000.

Friend, Richard H.: *See—*
  Berthier, Claude M.; and Friend, Richard H., 4,681,822, Cl. 429-191.000.

Friends, Gary D.; Melpolder, John B.; Kunzler, Jay F.; and Park, Joon S., to Bausch & Lomb Incorporated. Polysiloxane composition with improved surface wetting characteristics and biomedical devices made thereof. 4,652,622, 3-24-87, Cl. 526-279.000.

Friends, Gary D.; Chromecek, Richard C.; and Yourd, Raymond A., III, to Bausch & Lomb Incorporated. Alpha, beta-unsaturated carbonyl modified amino acid monomer and polymers for biomedical uses. 4,663,409, 5-5-87, Cl. 526-242.000.

Frierdich, Waldo J., to Basler Electric Company. Electrical control apparatus and methods. 4,639,657, 1-27-87, Cl. 322-59.000.

Frierdich, Waldo J.: *See—*
  Fernandez, Manuel; and Frierdich, Waldo J., 4,701,690, Cl. 322-28.000.

Friery, Edward H.: *See—*
  Griffith, David W.; Lyon, Michael R.; Bishop, Ross W.; and Friery, Edward H., 4,663,677, Cl. 360-71.000.

Fries, Alexis: *See—*
  Oehler, Oskar; Sourlier, David; and Fries, Alexis, 4,657,397, Cl. 356-414.000.

Fries, Carl J., Jr., to International Paper Company. Method and apparatus for skiving and hemming. 4,708,708, 11-24-87, Cl. 493-357.000.

Fries, Christopher: *See—*
  Chorley, William; Redding, Robert; and Fries, Christopher, 4,649,533, Cl. 370-58.000.

Fries, Donald W.; and Troscinski, David W., to Eaton Corporation. Thermostat. 4,649,362, 3-10-87, Cl. 337-323.000.

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Fries, Kenneth J.: *See—*
  Johnson, Carl W.; and Fries, Kenneth J., 4,674,966, Cl. 425-82.100.

Fries, Robert; and Michels, Kurt, to Poccino-Expresso Import- und Export GmbH. Espresso coffee machine. 4,660,466, 4-28-87, Cl. 99-294.000.

Fries, Soren: *See—*
  Timm, Hans; Fries, Soren; and Wenzlaff, Axel, 4,689,148, Cl. 210-321.100.

Fries, Timothy J., to National Latex Products Co. Method and apparatus for orienting balloons. 4,650,059, 3-17-87, Cl. 198-389.000.

Fries, Wolfgang: *See—*
  Woidt, Jurgen; and Fries, Wolfgang, 4,713,126, Cl. 148-6.14R.

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  Berscheid, Peter; and Friesdorf, Jakob, 4,687,530, Cl. 156-215.000.

Friese, David D., to Dow Chemical Company, The. Removal of ferric chloride from halopyridines. 4,649,201, 3-10-87, Cl. 546-345.000.

Friese, Donald E.; and Wirkkala, Gerald P., to Noran. Cab window assembly. 4,671,013, 6-9-87, Cl. 49-380.000.

Friesen, Albert D.; and Grassler, Walter F., to Winnipeg Rh Institute Inc., The. Sight tube for monitoring of fluids. 4,678,278, 7-7-87, Cl. 350-319.000.

Friesen, Dwayne T.: *See—*
  Babcock, Walter C.; and Friesen, Dwayne T., 4,702,838, Cl. 210-638.000.

Friesen, Gerald L.: *See—*
  Tsay, Yuh-Geng; Beigler, Myron A.; Calenoff, Emanuel; Friesen, Gerald L.; and Nichols, James L., 4,716,120, Cl. 436-513.000.

Friesen, Harold W.: *See—*
  Beggs, Richard D.; Friesen, Harold W.; and Nutt, Wendell G., 4,697,051, Cl. 178-63.00D.

Friesen, Henry; and van Hooydonk, Antonius H. G., to Deere & Company. Valve control lockout. 4,704,915, 11-10-87, Cl. 74-471.0XY.

Friesen, Peter. Rotational arm for molding machine. 4,695,244, 9-22-87, Cl. 425-429.000.

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  Lepper, Herbert; and Friesenhagen, Lothar, 4,652,406, Cl. 260-410.90R.

Friggstad, Terrance, to Flexi-Coil Limited. Flexible winged cultivator. 4,653,592, 3-31-87, Cl. 172-311.000.

Friggstad, Terrance, to Talon Tool Corp. Hydraulic punching and shearing tool. 4,664,008, 5-12-87, Cl. 83-549.000.

Friggstad, Terrance, to Flexi-Coil Limited. Framework for ground working implement. 4,676,321, 6-30-87, Cl. 172-776.000.

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Frigon, Donald R.; and DeMarco, Anthony J. Shaft to harness coupling assembly. 4,662,157, 5-5-87, Cl. 54-2.000.

Frigon, Raymond A., to Cerberus AG. Alignment apparatus for photoelectric intrusion detector system. 4,650,989, 3-17-87, Cl. 250-221.000

Frigon, Richard J.: *See—*
  Forsythe, Alan K.; and Frigon, Richard J., 4,708,053, Cl 91-284.000.

Frihart, Charles R., to Union Camp Corporation. Cycloaliphatic amino carboxylic acid. 4,665,225, 5-12-87, Cl. 562-507.000.

Frihart, Charles R.: *See—*
  Hayes, Kathryn S.; and Frihart, Charles R., 4,652,327, C 156-244.220
  Locko, George A.; and Frihart, Charles R., 4,703,070, C 523-102.000.

Friis, Nils: *See—*
  Wagner, Burkhard E.; Karol, Frederick J.; Goeke, George L. Jorgensen, Robert J.; and Friis, Nils, 4,684,703, Cl. 526-88.000

Frilette, Vincent J., to Mobil Oil Corporation. Antioxidant gravure printing inks and process of employing the same. 4,654,082, 3-31-87, Cl. 106-30.000.

Frimair S.A.: *See—*
  Bagolin, Alain; and Gay, Joel, 4,694,588, Cl. 34-77.000.

Frimberger, Eckart, to MED-Inventio AG. Stiffening probe and tensioning device therefor. 4,649,916, 3-17-87, Cl. 128-303.00R.

Frimml, Roger W.: *See—*
  Anstey, Henry D.; Frimml, Roger W.; and Frerich, Josef, 4,697,402, Cl. 53-506.000.

Frind, Gerhard; Carroll, James J.; Van Noy, John H.; Leach, John G. and Ranjan, Radha K., to General Electric Company. Exothermically assisted electric fuse. 4,638,283, 1-20-87, Cl. 337-162.000.

Frind, Gerhard: *See—*
  Carroll, James J.; Frind, Gerhard; and Van Noy, John H 4,661,665, Cl. 200-144.00B.

Fringant, Jean C.: *See—*
  Pieri, Roger; and Fringant, Jean C., 4,709,191, Cl. 315-370.000.

Fringes, Wilhelm: *See—*
  Dirksmeier, Ulrich; Kamp, Franz; and Fringes, Wilhelm, 4,660,601, Cl. 137-613.000.

Frings, Adam; and Prange, Wilfried, to Thyssen Stahl AG. Process for the butt-welding of especially deep-drawable steel sheets or steel strips galvanized at least on one side. 4,650,954, 3-17-87, Cl. 21 121.0LD.

Frings, Heinz; Kabelitz, Hans-Peter; and Ronthaler, Karl-Heinz, to Leybold-Heraeus GmbH. Two-shaft vacuum pump with internal compression. 4,639,199, 1-27-87, Cl. 418-3.000.

Frioux, Christian; Glachet, Charles; Francois, Daniel; and Tentelie Jean, to La Calhene, Societe Anonyme; and Commissariat a l'Energie Atomique. Disconnectable coupling device for a manipulator wrist. 4,650,388, 3-17-87, Cl. 414-1.000.

Frisbie, Jeffrey S.; Samson, Wilfred J.; and Hoek, John V., to Advanced Cardiovascular Systems, Inc. Steerable dilatation catheter with rotation limiting device. 4,664,113, 5-12-87, Cl. 128-344.000.

Frisbie, Jeffrey S.: *See—*
  Samson, Wilfred J.; and Frisbie, Jeffrey S., 4,641,654, C 128-344.000.

Frisbie, Milo W.: *See—*
  Swapp, Mavin C.; and Frisbie, Milo W., 4,655,364, Cl. 220-307.000
  Swapp, Mavin C.; and Frisbie, Milo W., 4,660,710, Cl. 198-397.000
  Swapp, Mavin C.; and Frisbie, Milo W., 4,674,625, Cl. 198-803.010
  Swapp, Mavin C.; and Frisbie, Milo W., 4,676,359, Cl. 198-372.000
  Swapp, Mavin C.; and Frisbie, Milo W., 4,709,801, C [illegible]8-464.200

Frisbie, William R.: *See—*
  Cox, Michael W.; Levin, Richard I.; Cohen, David J.; and Frisbie, William R., 4,679,144, Cl. 364-417.000.

Frisch, Arnold M.; Hollister, Allen L.; and Hutchinson, Larry L., to Tektronix, Inc. Computer-based instrument system. 4,707,834, 11-17-87, Cl. 371-20.000.

Frisch, Eberhard, to Messerschmitt-Bolkow-Blohm GmbH. Measuring arrangement for determining the attitude of an earth satellite. 4,674,715, 6-23-87, Cl. 244-171.000.

Frisch, Eberhard, to Messerschmitt-Bolkow-Blohm GmbH. Geostationary communications satellite. 4,690,354, 9-1-87, Cl. 244-158.00R.

Frisch, Eldon E., to Dow Corning Corporation. Method of making an intramedullary bone plug and bone plug made thereby. 4,686,973, 8-18-87, Cl. 128-92.0YZ.

Frisch Kabel-und Verseilmaschinenbau GmbH: *See—*
  Duewelhenke, Rainer; and Meyer, Joachim, 4,651,937, Cl 242-45.000.

Frisch, Kurt C.; Xiao, Hiong X.; and Anagnostou, Taki J., to Akzo America Inc. Vapor-phase cure of coating compositions containing an aliphatic polyisocyanate and a tertiary amine polyahl. 4,677,029, 6-30-87, Cl. 428-423.100.

Frisch, Kurt C.; and Ashida, Kaneyoshi, to Polymetrics Corporation. Reinforced foam composites. 4,680,214, 7-14-87, Cl. 428-107.000.

Frisch, Kurt C.; Klempner, Daniel; Radisch, Helmer; and Holzer Gerhard, to Saint-Gobain Vitrage. Polyurethane-based adhesiv coating or film, and use of same in laminated glass panes. 4,705,721 11-10-87, Cl. 428-349.000.

Frisch, Margaret A.: *See—*
  Clark, Gregory J.; Chaudhari, Praveen; Cuomo, Jerome J.; Frisch Margaret A.; and Speidell, James L., 4,714,831, Cl. 250-305.000

- Frischknecht, Bruno; and Wurgler, Rolf, to Swiss Aluminium Ltd. Device for adjusting the width of the gap between the rolls of a continuous casting facility. 4,649,986, 3-17-87, Cl. 164-480.000.
- Frischling, Louis B.; and Greenberg, Stephen M., to Lipo Chemicals, Inc. Mineral oil substitute for toiletries and cosmetics. 4,659,573, 4-21-87, Cl. 424-63.000.
- Frischmann, Albert; Mermi, Kurt; and Ziereisen, Peter, to Upat & Co., GmbH. Squirt cartridge for mixing and dispensing a two-component mass. 4,676,406, 6-30-87, Cl. 222-136.000.
- Frischmann, Albert; Rieger, Johannes; Mermi, Kurt; Kistner, Herbert; and Zimmermann, E. Harald, to Upat GmbH & Co. Spreading anchor. 4,702,654, 10-27-87, Cl. 411-31.000.
- Frischmann, Peter G.: *See—*
  - Taub, Alan I.; Frischmann, Peter G.; and Douglas, Thomas E., 4,670,636, Cl. 219-121.0EH.
  - Taub, Alan I.; and Frischmann, Peter G., 4,715,906, Cl. 148-120.000.
- Frisco, Jeffrey A.: *See—*
  - Heckaman, Douglas E.; Higman, Roger H.; and Frisco, Jeffrey A., 4,641,140, Cl. 342-371.000.
  - Heckaman, Douglas E.; Higman, Roger H.; Frisco, Jeffrey A.; and Bajgrowicz, Edward J., 4,695,810, Cl. 333-1.000.
- Frish, Michael B.; Nebolsine, Peter E.; and Pirri, Anthony N., to Physical Sciences, Inc. Method for bonding using laser induced heat and pressure. 4,684,781, 8-4-87, Cl. 219-121.0LU.
- Frisillo, Albert L.: *See—*
  - Sondergeld, Carl H.; Frisillo, Albert L.; and Norris, Janice O., 4,692,910, Cl. 367-75.000.
- Frisoli, David M. Chamber indicator for a revolver or a hand-held gun. 4,697,366, 10-6-87, Cl. 42-1.050.
- Fristedt, Tommy, to AB Mekania-Verken. Control device for vehicle in-seat heater. 4,700,046, 10-13-87, Cl. 219-202.000.
- Frister, Manfred, to Robert Bosch GmbH. Method and apparatus to reduce operating noise of dynamo electric machines, particularly vehicular three-phase alternators. 4,687,960, 8-18-87, Cl. 310-42.000.
- Friswell, David R., to Zymark Corporation. Laboratory evaporation. 4,707,452, 11-17-87, Cl. 436-177.000.
- Fritch, Charles D. Intraocular lens. 4,685,920, 8-11-87, Cl. 623-6.000.
- Fritch, Donald P., to Point Blank Body Armor, Inc. Protective body armor. 4,660,223, 4-28-87, Cl. 2-2.500.
- Fritchman, Jack F., to White Consolidated Industries, Inc. Reed valve for refrigeration compressor. 4,642,037, 2-10-87, Cl. 417-571.000.
- Frito-Lay, Inc.: *See—*
  - Budd, David L.; and Fowler, David P., 4,680,191, Cl. 426-439.000.
  - Chen, Jiann-Yuh; and Koerner, Dennis W., 4,670,272, Cl. 426-94.000.
  - Cipar, Martin S., 4,696,674, Cl. 800-1.000.
  - Cogan, Kevin C.; Ouellette, Edward L.; and Morua, Martin, 4,715,957, Cl. 210-497.300.
  - Fowler, David P., 4,702,926, Cl. 426-283.000.
  - Fulcher, John, 4,673,581, Cl. 426-531.000.
  - Hitchner, Elinor, 4,689,238, Cl. 426-571.000.
  - King, Gail G.; Chen, Jiann-Yuh; and Keys, Barbara J., 4,707,374, Cl. 426-572.000.
  - Lee, Vernon E., 4,646,658, Cl. 108-143.000.
  - Penrose, Newton B., 4,650,684, Cl. 426-144.000.
  - Plaskett, John, 4,656,810, Cl. 53-374.000.
  - Wisdom, Lawrence W.; and Joseph, Ponnattu K., 4,648,296, Cl. 83-13.000.
- Friton, Warren D., to Energy Absorption Systems, Inc. Impact attenuating body. 4,635,981, 1-13-87, Cl. 293-1.000.
- Fritsch, Horst: *See—*
  - Bocker, Jurgen; Luther, Hans W.; Wallow, Peter; and Fritsch, Horst, 4,697,525, Cl. 102-518.000.
  - Boecker, Juergen; Luther, Hans W.; Wallow, Peter; and Fritsch, Horst, 4,635,556, Cl. 102-518.000.
- Fritsch, Joseph F., to Fritsch, Roxanne Yvonne, a part interest. Cleaning device. 4,662,025, 5-5-87, Cl. 15-246.000.
- Fritsch, Joseph F., to Fritsch, Roxanne Yvonne. Cleaning device. 4,698,712, 10-6-87, Cl. 360-128.000.
- Fritsch, Karl-Herbert; and Bier, Peter, to Bayer Aktiengesellschaft. Process for the production of polycarbonate injection-moulded shaped articles. 4,699,745, 10-13-87, Cl. 264-143.000.
- Fritsch, Ronald J.; and Swedowski, John E., to Eaton Corporation. Fuse puller for barrel fuse. 4,671,588, 6-9-87, Cl. 439-160.000.
- Fritsch, Ronald J., to Eaton Corporation. Panel-mounted control station housing. 4,716,496, 12-29-87, Cl. 361-391.000.
- Fritsch, Roxanne Yvonne: *See—*
  - Fritsch, Joseph F., 4,662,025, Cl. 15-246.000.
  - Fritsch, Joseph F., 4,698,712, Cl. 360-128.000.
- Fritsch, Rudolf P. Apparatus for producing long-chain polymers, especially polyesters. 4,686,088, 8-11-87, Cl. 422-135.000.
- Fritsche, Joel L.: *See—*
  - Ellegood, Norman W.; Fritsche, Joel L.; Groezinger, John J.; Ikeda, Keichi; and Streitmatter, Ronald W., 4,692,196, Cl. 156-187.000.
- Fritsche, Karl; and Vahs, Wilhelm, to Geze GmbH. Door closer. 4,686,739, 8-18-87, Cl. 16-79.000.
- Fritschi, Edgar: *See—*
  - Kleinschroth, Jorgen; Satzinger, Gerhard; Mannhardt, Karl; Hartenstein, Johannes; Osswald, Hartmut; Weinheimer, Gonter; and Fritschi, Edgar, 4,681,882, Cl. 514-258.000.
  - Kleinschroth, Jurgen; Satzinger, Gerhard; Mannhardt, Karl; Hartenstein, Johannes; Osswald, Hartmut; Weinheimer, Gunter; and Fritschi, Edgar, 4,677,108, Cl. 514-258.000.
  - Satzinger, Gerhard; Hartenstein, Johannes; Mannhardt, Karl; Kleinschroth, Jurgen; Herrmann, Manfred; Fritschi, Edgar; Tauschel, Horst-Dietmar; Wagner, Bernd; and Wolf, Gunter, 4,698,341, Cl. 514-230.000.
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- Fritts, Robert W.: *See—*
  - Kellett, James H.; Gaddis, Raymond W.; Fritts, Robert W.; and Schoenecker, David L., 4,693,949, Cl. 429-178.000.
- Fritz, Charles T., Jr. Windshield wiper blade. 4,698,874, 10-13-87, Cl. 15-250.330.
- Fritz Chemical Company: *See—*
  - Tae-Ho, Suh, 4,712,510, Cl. 119-29.000.
- Fritz, Conrad M., to Keystone Engineering. Method of assembling high-performance low-torque anti-friction bearing assembly. 4,635,330, 1-13-87, Cl. 29-148.40A.
- Fritz, David P.: *See—*
  - Pruitt, Martin E.; Case, Cecil L.; and Fritz, David P., 4,637,201, Cl. 56-16.400.
- Fritz Eichenauer GmbH & Co. KG: *See—*
  - Starck, Roland; and Roller, Hanno, 4,671,072, Cl. 62-140.000.
- Fritz Enterprises, Inc.: *See—*
  - Fritz, Leonard; Osterberg, Richard R.; Wolanski, Richard B.; and Arvay, Joseph E., 4,655,437, Cl. 266-197.000.
- Fritz, Ernst, to Klockner CRA Technologie GmbH. Water-cooled lance for blowing oxidizing gas onto a metal melt. 4,702,462, 10-27-87, Cl. 266-225.000.
- Fritz Gegauf Aktiengesellschaft Bernina-Nahmaschinenfabrik: *See—*
  - Hangarter, Otto; and Stillhard, Otmar, 4,667,614, Cl. 112-445.000.
  - Lahodny, Johann; and Dreier, Ernst, 4,644,953, Cl. 128-305.000.
  - Sidler, Gregor; and Rickenbach, Jakob, 4,643,112, Cl. 112-185.000.
  - Ulmer, Christian; and Trondle, Georg, 4,643,116, Cl. 112-240.000.
  - Vogel, Peter, 4,651,658, Cl. 112-118.000.
- Fritz, Gerald D.: *See—*
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  - Arndt, Friedrich-Karl; and Fritz, Karlheinz, 4,646,854, Cl. 173-134.000.
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  - Schafer, Gerhard, 4,648,517, Cl. 211-183.000.
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- Fritz Studer AG: *See—*
  - Renker, Hansjoerg; and Abegglen, Martin, 4,696,839, Cl. 428-15.000.
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  - Sturm, Walter; Becker, Helmut; Witt, Jurgen; Fritz, Werner; and Eysholt, Ursula, 4,644,166, Cl. 250-372.000.
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  Bischoff, Erwin; Muller, Hartwig; Salcher, Olga; Berschauer, Friedrich; Scheer, Martin; de Jong, Anno; and Frobel, Klaus, 4,670,260, Cl. 424-121.000.

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Froehlich, Donell P.: *See—*
  Christianson, Leslie L.; Alcock, Ralph; Froehlich, Donell P.; and Hellickson, Mylo A., 4,662,472, Cl. 180-235.000.
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Froehlich, Helmut: *See—*
  Graf, Hermann; Rentzea, Costin; Richarz, Winfried; Froehlich, Helmut; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, 4,663,324, Cl. 514-247.000.

Froehlich, Marianne B.: *See—*
  Bauer, Hans J.; and Froehlich, Marianne B., 4,704,301, Cl. 427-38.000.

Froehlich, Peter, to Hilti Aktiengesellschaft. Anchor dowel assembly. 4,673,320, 6-16-87, Cl. 411-21.000.

Froelich, Benoit G. L.: *See—*
  Seeman, Bronislaw; and Froelich, Benoit G. L., 4,661,933, Cl. 367-27.000.

Froelich, Hans; Hepperle, Willi; Katzer, Johann; and Stephany, Christian, to Gardena Kress & Kastner GmbH. Joint for a water-carrying pipe system. 4,639,018, 1-27-87, Cl. 285-184.000.

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Froes, Francis H.: *See—*
  Eylon, Daniel; and Froes, Francis H., 4,714,587, Cl. 419-29.000.
  Levin, Lev; Vogt, Russell G.; Eylon, Daniel; and Froes, Francis H., 4,655,855, Cl. 148-20.300.
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Frohberger, Paul-Ernst: *See—*
  Kramer, Wolfgang; Buchel, Karl H.; Frohberger, Paul-Ernst; Brandes, Wilhelm; and Lurssen, Klaus, 4,711,657, Cl. 71-92.000.
  Kramer, Wolfgang; Buchel, Karl H.; Frohberger, Paul-Ernst; Brandes, Wilhelm; and Lurssen, Klaus, 4,715,887, Cl. 71-92.000.
  Regel, Erik; Draber, Wilfried; Buchel, Karl H.; Frohberger, Paul-Ernst; and Lurssen, Klaus, 4,699,645, Cl. 71-76.000.
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Frohlich, Robert T.: *See—*
  Young, Kenneth E.; Dudley, Hubert T.; and Frohlich, Robert T., 4,641,471, Cl. 52-361.000.
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Frohlich, Roland: *See—*
  Franz, Reinhard; Dittmar, Wilfried; Scheidegger, Christian; and Frohlich, Roland, 4,644,840, Cl. 84-1.010.

Frohling, Werner: *See—*
  Iniotakis, Nicolaos; Frohling, Werner; Kalawrytinos, Georg; and von der Decken, Claus-Benedict, 4,643,832, Cl. 210-712.000.
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  Iniotakis, Nicolaos; von der Decken, Claus-Benedict; Hecker, Rudolf; Frohling, Werner; and Schulten, Rudolf, 4,707,342, Cl. 423-248.000.
  Iniotakis, Nicolas; von der Decken, Claus-Benedict; Frohling, Werner; Schoeller, Jochen; and Grossman, Hermann, 4,655,797, Cl. 55-16.000.
  Iniotakis, Nicolas; von der Decken, Claus-Benedict; Fedders, Heinrich; Frohling, Werner; and Sernetz, Friedrich, 4,699,637, Cl. 55-158.000.

Frohn, Gustav K.: *See—*
  Mierbach, Hans-Bernd; Frohn, Gustav K.; and Blockisch, Olaf, 4,709,600, Cl. 81-57.390.

Frohn, Hermann J. Device for monitoring periods of ovulation. 4,676,254, 6-30-87, Cl. 128-736.000.

Frohn, Walter. Container with superposed polishing and applicator devices. 4,645,366, 2-24-87, Cl. 401-123.000.

Frohnert, Heinz: *See—*
  Dohler, Werner; Merz, Ludwig; Frohnert, Heinz; Uckermann, Bernd; Graeser, Ulrich; Jankowski, Alfons; Wolowski, Eckard; Tamm, Hans-Friedrich; and Wilczok, Norbert, 4,639,310, Cl. 208-412.000.

Frolich, Heinrich: *See—*
  Hertel, Hasso; Hunger, Klaus; and Frolich, Heinrich, 4,696,675, Cl. 8-669.000.
  Hunger, Klaus; Frolich, Heinrich; and Lenz, Hans-Joachim, 4,665,163, Cl. 534-746.000.

Froling, Melchert H.; and Schmitz, Herman J. R., to U.S. Philips Corporation. Television receiver comprising a teletext decoding circuit and a page number memory. 4,701,794, 10-20-87, Cl. 358-147.000.

Frolov, Georgy; and Surko, Walter E., Jr., to Emhart Industries, Inc. Door closer piston assembly having separate head portions. 4,665,583, 5-19-87, Cl. 16-52.000.

Frolow, Jack L. Tennis racket. 4,690,405, 9-1-87, Cl. 273-73.00C.

From, Jan O.: *See—*
  Sondov, Sten Y.; and From, Jan O., 4,681,688, Cl. 210-770.000.

Fromageries Bel: *See—*
  Daurelles, Jacques; and Lombart, Christian, 4,661,357, Cl. 426-37.000.

Fromberg, John P., to Positive Connections, Inc. Three-axis trailer hitch having improved rotatable coupling between vehicle and trailer. 4,711,461, 12-8-87, Cl. 280-494.000.

Fromel, Gustav; and Steinke, Alexander, to Kraftwerk Union Aktiengesellschaft. Nuclear reactor fuel assembly. 4,683,115, 7-28-87, Cl. 376-439.000.

Fromel, Norbert: *See—*
  Paulus, Manfred; and Fromel, Norbert, 4,687,053, Cl. 165-133.000.

Froment, Francis: *See—*
  Mazzorana, Alfred B.; and Froment, Francis, 4,649,285, Cl. 290-48.000.

Fromknecht, Thomas G.: *See—*
  Mancuso, Jon R.; Fromknecht, Thomas G.; and White, Robert E., 4,702,359, Cl. 192-56.00R.

Fromm, George R.; and Stefaniak, Philip S., to Helene Curtis, Inc. Pilo light arrangement for styling iron with swivel cord. 4,692,586, 9-8-8 Cl. 219-225.000.

Fromm, Paul M., to Xerox Corporation. Low mass conformable he and pressure fuser. 4,653,897, 3-31-87, Cl. 355-3.0FU.

Frommann, Klaus; Skoda, Ulrich; and Meyer, Peter, to Mannesman AG. Making hot roller steel strip from continuously cast ingot 4,698,897, 10-13-87, Cl. 29-527.700.

Frommann, Klaus, to Mannesmann AG. Annealing steel strip 4,710,240, 12-1-87, Cl. 148-156.000.

Fromme, Georg, to Robert Bosch GmbH. Method of determinin [illegible] speed of a rotating element in a braking effort regulatio system. 4,712,186, 12-8-87, Cl. 364-565.000.

Fromme, Heinrich. Adjustable swivel chair. 4,640,547, 2-3-87, C [illegible].000.

F[illegible]d, Hans-Dieter; Lutz, Walter; and Steppan, Hartmut, to Hoechst Aktiengesellschaft. Photosensitive mixture and photosensiti recording material with diazonium salt polycondensation produ and free radical radiation polymerizable composition. 4,659,64 4-21-87, Cl. 430-175.000.

Frommelt Industries, Inc.: *See—*
  Hanssen, David H., 4,676,293, Cl. 160-201.000.

- Frommer, Elmar: *See—*
    - Grosskinsky, Otto-Alfred; Frommer, Elmar; Ritz, Josef; Thomas, Erwin; and Weiss, Franz-Josef, 4,634,584, Cl. 423-265.000.
    - Weiss, Franz-Josef; Habermann, Wolfgang; Hammes, Peter; Frommer, Elmar; Thomas, Erwin; and Thoma, Peter, 4,645,579, Cl. 204-182.400.
- Frommer, Werner: *See—*
    - Baumgarten, Jorg; Frommer, Werner; Mann, Theo; Pascik, Imre; Rast, Hans-Georg; and Schapel, Dietmar, 4,634,672, Cl. 435-182.000.
    - Baumgarten, Jorg; Frommer, Werner; Mann, Theo; Pascik, Imre; Rast, Hans-Georg; and Schapel, Dietmar, 4,681,851, Cl. 435-262.000.
- Frommes, T. Michael, to Precision Drilling, Inc. Vacuum-actuated top access test probe fixture. 4,694,245, 9-15-87, Cl. 324-158.00F.
- Frommherz, Egon, to Rotzler GmbH & Co. Spezialfabrik fur Seilwinden und Hebezeuge. Winch having a compact housing. 4,650,162, 3-17-87, Cl. 254-309.000.
- Frommherz, Egon, to Rotzler GmbH & Co. Spezialfabrik fur Seilwinden und Hebezeuge. Continuous winch. 4,651,974, 3-24-87, Cl. 254-294.000.
- Frommherz, Egon, to Rotzler GmbH & Co. Spezialfabrik fur Seilwinden und Hebezeuge. Gear transmission for a winch. 4,667,933, 5-26-87, Cl. 254-297.000.
- Fromson, Howard A.; and Cracia, Robert F., to Fromson, Howard A. Lithographic printing plate with resin reinforced image. 4,645,730, 2-24-87, Cl. 430-155.000.
- Fromson, Robert E.; Kossowsky, Ram; and Nunamaker, Charles S., to Westinghouse Electric Corp. Cemented carbide cutting tools and processes for making and using. 4,640,169, 2-3-87, Cl. 83-685.000.
- Fronczkowski, Paul R.: *See—*
    - Klacik, Kenneth J.; Vermesh, Robert J.; Fronczkowski, Paul R.; DeTora, Sigismondo A.; and Mihalich, Donald, 4,657,501, Cl. 425-379.00R.
- Fronda Limited: *See—*
    - Boston, Ronald P., 4,695,468, Cl. 426-8.000.
- Fronduti, Domenico, to Cartotecnica Tifernate S.p.A. Prismatic container obtained from a flat cardboard blank with a diaphragm end closure device formed by stamping a part of the flat blank. 4,641,777, 2-10-87, Cl. 229-110.000.
- Fronduti, Domenico, to Cartotecnica Tifernate S.p.A. Parallelepipedic container obtained from one-piece blank having rotatable closure operated by inner and outer slidable casings. 4,671,449, 6-9-87, Cl. 229-19.000.
- Fronius, Joe E., to Turn-N-Tame Inc. Hair brush. 4,685,165, 8-11-87, Cl. 15-27.000.
- Frontier, Inc.: *See—*
    - Ellingson, Hartley, 4,691,957, Cl. 296-98.000.
- Froom, Thomas W. Ice cream carton and blank. 4,669,614, 6-2-87, Cl. 206-626.000.
- Froom, Thomas W. Ice-cream carton, carton blank, and method of erecting same. 4,712,689, 12-15-87, Cl. 206-626.000.
- Froom, Thomas W. Ice-cream carton, carton blank, and method of erecting same. 4,712,730, 12-15-87, Cl. 229-169.000.
- Frosch, Eugen: *See—*
    - Seitz, Herbert; and Frosch, Eugen, 4,667,489, Cl. 66-168.000.
- Frosch, Hans, to SMS Schloemann-Siemag AG. Apparatus for axially shifting rolls in a roll stand. 4,693,106, 9-15-87, Cl. 72-247.000.
- Frosch, Jurgen: *See—*
    - Wernicke, Ubbo; Meckl, Heinz; Donner, Hans-Gunter; and Frosch, Jurgen, 4,680,123, Cl. 210-683.000.
- Frosch, Werner, to Hollingsworth GmbH. Universal textile machine for optionally manufacturing longitudinally and/or randomly oriented fiber fleece. 4,651,386, 3-24-87, Cl. 19-98.000.
- Froschl, Kurt; and Jager, Lothar, to U.S. Philips Corporation. VCR cassette transport mechanism with mechanical overload protection. 4,654,731, 3-31-87, Cl. 360-96.500.
- Froschle, Reinhard: *See—*
    - Richter, Gunter; and Froschle, Reinhard, 4,679,357, Cl. 51-281.00P.
- Frosien, Juergen; and Spehr, Rainer, to Siemens Aktiengesellschaft. Scanning particle microscope with diminished boersch effect. 4,675,524, 6-23-87, Cl. 250-310.000.
- Frosien, Juergen: *See—*
    - Feuerbaum, Hans-Peter; Frosien, Juergen; and Spehr, Rainer, 4,713,543, Cl. 250-310.000.
    - Lischke, Burkhard; and Frosien, Juergen, 4,677,296, Cl. 250-310.000.
- Frost, Charles E.; and Elnick, Rodney K., to General Motors Corporation. Method for installing connecting rod bolts. 4,698,885, 10-13-87, Cl. 29-156.50A.
- Frost, Charles E., Jr.: *See—*
    - Brown, David R.; Frost, Charles E., Jr.; and White, Kenneth A., 4,713,104, Cl. 65-18.100.
- Frost, Derek, to Ford Motor Company. Variable valve timing. 4,694,789, 9-22-87, Cl. 123-90.170.
- Frost, Elton: *See—*
    - Fertl, Walter H.; and Frost, Elton, 4,636,994, Cl. 367-75.000.
- Frost, John K.: *See—*
    - Pressman, Norman J.; and Frost, John K., 4,645,872, Cl. 379-54.000.
- Frost, John R.; Sarich, Nancy J.; Ruff, John; and Hammond, John E., to General Foods Corporation. Silica gel-lipid composition. 4,652,458, 3-24-87, Cl. 426-573.000.
- Frost, John R.; Sarich, Nancy J.; Schenz, Timothy W.; and Glatz, Alfred C., to General Foods Corporation. Chocolate product containing dipeptide-cocoa butter composition. 4,701,337, 10-20-87, Cl. 426-548.000.
- Frost, Jonathan: *See—*
    - Wick, Alexander; Frost, Jonathan; and Bertin, Jean, 4,661,498, Cl. 514-302.000.
    - Wick, Alexander; Frost, Jonathan; Gaudilliere, Bernard; Bertin, Jean; Dupont, Regis; and Rousseau, Jean, 4,690,931, Cl. 514-317.000.
- Frost, Meryll M., Jr.: *See—*
    - Morrison, John; Siskind, Eric J.; and Frost, Meryll M., Jr., 4,709,332, Cl. 364-414.000.
- Frost, Robert T.: *See—*
    - Lowry, Hugh R.; and Frost, Robert T., 4,662,431, Cl. 164-503.000.
    - Lowry, Hugh R.; and Frost, Robert T., 4,709,749, Cl. 164-503.000.
- Frost, Roger A., to J. C. Bamford Excavators Limited. Earth moving implement. 4,669,947, 6-2-87, Cl. 414-724.000.
- Frost, Stephen L.; and Watkins, Charles W., to Tuftco Corporation. Looper apparatus for equalizing the legs of cut pile tufts. 4,671,194, 6-9-87, Cl. 112-80.550.
- Frost, Terry; and Smith, Terry B., to ASC Machine Tools, Inc. Panel forming line. 4,655,067, 4-7-87, Cl. 72-131.000.
- Frostproof Growers Supply, Inc.: *See—*
    - Lilly, John, 4,651,465, Cl. 47-2.000.
- Frotschner, Eberhard; and Worner, Otto, to Daimler-Benz Aktiengesellschaft. Spoke arrangement for a hydrodynamic torque converter. 4,704,864, 11-10-87, Cl. 60-330.000.
- Fruchart, Daniel: *See—*
    - Fruchart, Robert; Madar, Roland; Rouault, Alain; L'Heritier, Philippe; Taunier, Pierre; Boursier, Daniel; Fruchart, Daniel; and Chaudouet, Patrick, 4,663,066, Cl. 252-62.510.
- Fruchart, Robert; Madar, Roland; Rouault, Alain; L'Heritier, Philippe; Taunier, Pierre; Boursier, Daniel; Fruchart, Daniel; and Chaudouet, Patrick, to Centre National de la Recherche Scientifique. Magnetic rare earth/iron/boron and rare earth/cobalt/boron hydrides, the process for their manufacture of the corresponding pulverulent dehydrogenated products. 4,663,066, 5-5-87, Cl. 252-62.510.
- Fruechte, Kevin M.; Andrejeski, Gary J.; and Braatz, Robert E., to BOC Group, Inc., The. Bistable two position valve. 4,648,427, 3-10-87, Cl. 137-826.000.
- Fruehan, Mark T.; Fennig, Jeffrey A.; and Kapadia, Jayant K., to Westinghouse Electric Corp. Transit vehicle door control apparatus. 4,679,508, 7-14-87, Cl. 105-341.000.
- Fruehauf Corporation: *See—*
    - Ringe, Stephen J., 4,634,144, Cl. 280-763.100.
- Fruh, Walter, to Sulzer Brothers Limited. Medium-carrying line having at least one restrictor. 4,665,950, 5-19-87, Cl. 138-44.000.
- Fruhauf, Waldemar, to Siemens Aktiengesellschaft. Circuit for coupling a signal processing device to a transmission line. 4,691,128, 9-1-87, Cl. 307-557.000.
- Fruhaufova, Maria: *See—*
    - Cerny, Antonin; Krepelka, Jiri; Rezabek, Karel; Fruhaufova, Maria; Pesak, Milan; Sevcik, Bohumil; Kral, Josef; Borovicka, Antonin; Bilek, Petr; Picmausova, Dagmar; Stuchlik, Josef; Picha, Josef; and Strakova, Jana, 4,692,452, Cl. 514-288.000.
- Fruhbuss, Heinrich. Process of removing SO_x and NO_x from waste gases. 4,710,363, 12-1-87, Cl. 423-239.000.
- Fruhstorfer, Ludwig: *See—*
    - Baur, Karl; Haussinger, Peter; Fruhstorfer, Ludwig; and Neubert, Hans-Jurgen, 4,666,695, Cl. 423-571.000.
- Fruhwald, John M., to Bacharach, Inc. Controlled-potential bias circuit for electrochemical cells. 4,642,172, 2-10-87, Cl. 204-231.000.
- Fruhwald, John M.: *See—*
    - Novack, Robert L.; and Fruhwald, John M., 4,664,886, Cl. 422-94.000.
- Frund, Louis P.: *See—*
    - Baseggio, Marcello; Steiger, Gerard; and Frund, Louis P., 4,669,280, Cl. 66-78.000.
- Fruntzek, Peter, to Mannesmann Demag Kunststofftechnik. Arrangement for fitting a mold tool in an injection molding machine. 4,702,685, 10-27-87, Cl. 425-182.000.
- Frunzi, Archie M.; and Williams, Gregg R., to Hoffmann-La Roche Inc. Ampul opening device. 4,659,024, 4-21-87, Cl. 241-99.000.
- Frush, Donald R., to CTB, Inc. Rail lock device for tubular fence. 4,691,897, 9-8-87, Cl. 256-65.000.
- Frushour, James E.; Mahar, Michael L.; Majka, Christopher J.; and Swenson, John E., to International Business Machines Corporation. Collision avoidance system. 4,644,237, 2-17-87, Cl. 318-313.000.
- Frushour, James E., to International Business Machines Corporation. Printed circuit conductor test system. 4,697,142, 9-29-87, Cl. 324-158.00R.
- Frushour, Robert H., to GTE Valeron Corporation. Method of making diamond tool. 4,661,180, 4-28-87, Cl. 156-89.000.
- Fruth, Rupert; Stemmer, Gottfried; and Pohl, Claus, to Geimuplast Peter Mundt GmbH & Co. KG. Method of automatically detecting the locations of the frame lines of a reversal film and apparatus for carrying out the method. 4,673,815, 6-16-87, Cl. 250-548.000.
- Fruthaler, Katherine J.; Hopkins, Thomas R.; Hitzman, Donald O.; Kubicek, Donald H.; and Kallenbach, Lyle R., to Phillips Petroleum Company. Shaped, flavored articles and method of producing same. 4,681,758, 7-21-87, Cl. 424-78.000.
- Frutiger, William A.: *See—*
    - Williams, Kenneth E.; Frutiger, William A.; and Hall, Kenneth E., 4,634,921, Cl. 313-342.000.
- Frutschi, Hansulrich, to BBC Brown, Boveri & Company Limited. Gas turbine power station with air storage and method for operating the same. 4,686,822, 8-18-87, Cl. 60-39.020.

Fruttero, Roberta: *See—*
Calvino, Rosella; Fruttero, Roberta; Messori, Vittorio; and Rodio, Francesco, 4,671,818, Cl. 71-92.000.

FRW Industries, Inc.: *See—*
Runnels, Franklin D., 4,650,365, Cl. 404-25.000.

Fry, Andrew R., to Crosfield Electronics Limited. Angle measuring apparatus. 4,635,376, 1-13-87, Cl. 33-384.000.

Fry, Francis J.: *See—*
Sanghvi, Narendra T.; Fry, Francis J.; Morris, Richard F.; and Stuber, Richard A., 4,664,121, Cl. 128-660.000.

Fry, Gerald L.: *See—*
Caplin, Roger W. G.; Southern, Roderic G.; Fry, Gerald L.; and Hunt, David, 4,644,450, Cl. 362-147.000.

Fry, John A.; and Robinson, Douglas B. Fishing simulator. 4,637,603, 1-20-87, Cl. 272-1.00R.

Fry, John A., to Quaker Industries, Inc. Home filing cabinet. 4,712,844, 12-15-87, Cl. 312-265.000.

Fry, John J.; Bastijanic, Edward; and Robertson, John W., Jr., to Babcock & Wilcox Company, The. Power supply for totem pole power switches. 4,703,407, 10-27-87, Cl. 363-16.000.

Fry Metals, Inc.: *See—*
Socolowski, Norbert J., 4,709,849, Cl. 228-246.000.

Fry, Richard L.; and Beaumont, Richard J., to Crosfield Electronics (USA) Limited. Radiation generating apparatus and method. 4,698,692, 10-6-87, Cl. 358-299.000.

Fry, Richard M.; and McGough, Charles A., III, to Cam Industries, Inc. Automatic mica undercutter. 4,653,965, 3-31-87, Cl. 409-188.000.

Fry, Slaton E.; Childs, Jerry D.; Brothers, Lance E.; and Lindsey, Donald W., to Halliburton Company. Method of reducing fluid loss in cement compositions which may contain substantial salt concentrations. 4,676,317, 6-30-87, Cl. 166-293.000.

Fry, Slaton E.; Childs, Jerry D.; Brothers, Lance E.; and Lindsey, Donald W., to Halliburton Company. Method of reducing fluid loss in cement compositions which may contain substantial salt concentrations. 4,703,801, 11-3-87, Cl. 166-293.000.

Fry, Steven A.; and Stafford, Rodney L. Seat for a truck bed. 4,679,840, 7-14-87, Cl. 296-64.000.

Fry, Timothy S., to Bartel Engineering Limited. Differential gear drive having two output shafts between which there is a limited speed ratio. 4,704,921, 11-10-87, Cl. 74-714.000.

Fryberger, Joseph A.: *See—*
Smith, David E.; Olmsted, Dennis R.; and Fryberger, Joseph A., 4,709,873, Cl. 242-195.000.

Fryda, Georg; and Hehn, Wilfried, to Agfa-Gevaert Aktiengesellschaft. Arrangement for wet processing photosensitive materials. 4,708,453, 11-24-87, Cl. 354-320.000.

Frydman, Allen: *See—*
Morper, Manfred; and Frydman, Allen, 4,664,804, Cl. 210-605.000.

Frydman, Georges. Frame structure especially for a cabinet, e.g. of the shelved type. 4,691,644, 9-8-87, Cl. 108-111.000.

Frye, Bruce J. Demountable holding device. 4,671,480, 6-9-87, Cl. 248-205.300.

Frye Copysystems, Inc.: *See—*
Morarka, Kedar M.; and Jones, James A., II, 4,650,354, Cl. 400-196.100.

Frye, David E. Cloth stitching apparatus and method. 4,685,408, 8-11-87, Cl. 112-262.300.

Frye, Diane R.: *See—*
Townsend, David E.; Frye, Diane R.; Greene, Tammie B.; and Perfetti, Thomas A., 4,700,726, Cl. 131-364.000.

Frye, Henry A. Plastic to metal transition fitting. 4,715,624, 12-29-87, Cl. 285-55.000.

Frye, John G., Jr.: *See—*
Hardman, Harley F.; Mazanec, Terry J.; and Frye, John G., Jr., 4,657,887, Cl. 502-303.000.
Mazanec, Terry J.; and Frye, John G., Jr., 4,666,944, Cl. 518-700.000.
Mazanec, Terry J.; and Frye, John G., Jr., 4,675,306, Cl. 502-303.000.
Mazanec, Terry J.; and Frye, John G., Jr., 4,677,091, Cl. 502-182.000.
Mazanec, Terry J.; Frye, John G., Jr.; and Hardman, Harley F., 4,705,532, Cl. 44-53.000.

Frye, Richard D.: *See—*
Woods, Timothy N.; and Frye, Richard D., 4,685,216, Cl. 33-176.000.

Frye, Ricky J., to MIM Industries, Inc. Tape feeding apparatus. 4,708,072, 11-24-87, Cl. 112-121.270.

Frye, Robert C.; and Tai, King L., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Interconnection lines for wafer-scale-integrated assemblies. 4,703,288, 10-27-87, Cl. 333-1.000.

Frye, Ruth E. Therapeutic stuffed toy. 4,694,829, 9-22-87, Cl. 128-399.000.

Fryer, George E.; Pilson, William; Stephens, William J.; and Chandler, Charles H. Folding bicycle. 4,634,138, 1-6-87, Cl. 280-278.000.

Fryer, Warren R., to Calculagraph Company. Demultiplexer for two-stage framing. 4,688,215, 8-18-87, Cl. 370-102.000.

Frykhult, Rune: *See—*
Fjallstrom, Roland; and Frykhult, Rune, 4,676,809, Cl. 55-204.000.

Frykhult, Rune H., to AB Celleco. Rotatable filter disc assembly. 4,678,575, 7-7-87, Cl. 210-327.000.

Fryling, Charlotte M.: *See—*
Iwata, Kenneth K.; Fryling, Charlotte M.; and Todaro, George J., 4,708,948, Cl. 514-2.000.

Fryma Maschinen A.G. Rheinfelden: *See—*
Buhler, Gerhard, 4,715,547, Cl. 241-176.000.

Frymaster Corporation, The: *See—*
Waugh, Gerald; Myers, Charley; Davis, John; and Sullivan, John, 4,663,710, Cl. 364-400.000.
Waugh, Gerald; Myers, Charley; Davis, John; and Sullivan, John, 4,672,540, Cl. 364-400.000.
Wenzel, Robert J., 4,702,827, Cl. 210-117.000.

Fry's Metals Limited: *See—*
Pascoe, Graham; Todd, Frank; and Kidd, Thomas F., 4,676,296, Cl. 164-303.000.

Frysh, Howard. Disclosing of plaque on teeth. 4,666,700, 5-19-87, Cl. 424-7.100.

Fryslie, Alice. Protective bandaging device. 4,667,666, 5-26-87, Cl. 128-156.000.

FSI Corporation: *See—*
Burkman, Don C.; Schumacher, David D.; and Peterson, Charles A., 4,682,615, Cl. 134-102.000.
Grant, Robert W., 4,694,852, Cl. 137-501.000.
Grant, Robert W.; and Waldman, Joshua P., 4,699,298, Cl. 222-400.700.
Silvernail, James M.; and Schneider, Dallas J., 4,664,133, Cl. 134-99.000.
Silvernail, James M.; and Schneider, Dallas J., 4,682,614, Cl. 134-99.000.
Silvernail, James M.; and Miller, Clifford C., 4,691,722, Cl. 134-155.000.

Fsk Co., Ltd.: *See—*
Asano, Shinzo, 4,691,630, Cl. 101-212.000.

FTS Equipment Manufacturing Co.: *See—*
Hallenbeck, Mark; and Frankenbush, Robert H., 4,637,564, Cl. 242-25.00A.

Fu, Being-I: *See—*
Hemsath, Klaus H.; and Fu, Being-I, 4,693,015, Cl. 34-41.000.

Fu-Chi Metalic Engineering Co. Ltd.: *See—*
Yu, Li K., 4,641,815, Cl. 254-93.00H.

Fu, Chi Y.: *See—*
Moslehi, Mehrdad M.; Fu, Chi Y.; and Saraswat, Krishna, 4,715,937, Cl. 204-177.000.

Fu, Chia-Min, to Phillips Petroleum Company. Catalytic cracking processes. 4,663,025, 5-5-87, Cl. 208-120.000.

Fu-Long, Chung. Auxiliary drawer structure on top surface on a desk. 4,700,993, 10-20-87, Cl. 312-312.000.

Fu, Shen-Li: *See—*
Huang, Kung-Da; Yang, Yin-Chiao; Huang, Jung-Tarng; and Fu, Shen-Li, 4,660,395, Cl. 70-351.000.

Fu, Wallace Y.: *See—*
Fellows, Constance A., and Fu, Wallace Y., 4,639,536, Cl. 549-462.000.

Fu, Yi-Chang, to Procter & Gamble Company, The. Textile treating compositions and methods. 4,643,919, 2-17-87, Cl. 427-393.100.

Fu, Yun-Lung; and Wang, Samuel S., to American Cyanamid Company. Neutral hydrocarboxycarbonyl thionocarbamate sulfide collectors. 4,657,688, 4-14-87, Cl. 252-61.000.

Fu, Yun-Lung; and Strydom, Peter J., to American Cyanamid Company. Process for the production of isothiocyanate derivatives. 4,659,853, 4-21-87, Cl. 558-19.000.

Fucci, Joseph G., to TRW Inc. Quarter turn fastener. 4,705,442, 11-10-87, Cl. 411-510.000.

Fucci, Robert C., to United Technologies Corporation. Combustors. 4,700,544, 10-20-87, Cl. 60-757.000.

Fuchi, Ikuo; Arai, Takashi; and Amaya, Yoshio, to Canon Kabushiki Kaisha. Coupling device for photographing apparatus. 4,660,953, 4-28-87, Cl. 354-286.000.

Fuchigami, Wataru; and Nakayama, Yoshiharu, to Yamaha Motor Co., Ltd. Timing chain drive. 4,692,129, 9-8-87, Cl. 474-148.000.

Fuchikami, Jun: *See—*
Yoshida, Shinichi; Higashi, Hidehiro; Yano, Takemithu; and Fuchikami, Jun, 4,668,649, Cl. 502-79.000.

Fuchizawa, Tetsuro: *See—*
Koike, Kazuyuki; Tamagawa, Shigehisa; and Fuchizawa, Tetsuro, 4,686,546, Cl. 503-200.000.
Takayanagi, Takashi; Asao, Yasuzi; Fuchizawa, Tetsuro; Jitsumatsu, Tetusji; Murase, Kiyoshi; and Kato, Hiroyuki, 4,654,261, Cl. 428-336.000.
Tamagawa, Shigehisa; and Fuchizawa, Tetsuro, 4,659,430, Cl. 162-135.000.
Tamagawa, Shigehisa; Fuchizawa, Tetsuro; and Abe, Hisamasa, 4,678,742, Cl. 430-523.000.
Tamagawa, Shigehisa; and Fuchizawa, Tetsuro, 4,682,191, Cl. 503-200.000.
Tamagawa, Shigehisa; and Fuchizawa, Tetsuro, 4,705,746, Cl. 430-538.000.

Fuchs, Alfred E., to Potters Industries, Inc. Microbicidal coated beads. 4,682,992, 7-28-87, Cl. 55-279.000.

Fuchs, Andreas: *See—*
Bottcher, Henning; Fuchs, Andreas; and Seyfried, Christoph, 4,665,187, Cl. 546-255.000.

Fuchs, Axel: *See—*
Biniasz, Franz-Josef; Engl, Bernhard; Fuchs, Axel; and Huser, Margrit, 4,687,525, Cl. 148-336.000.
Lepand, Heinz; Huser, Margrit; Biniasz, Franz-Josef; and Fuchs, Axel, 4,710,244, Cl. 148-333.000.

Fuchs, Daniel G.; and Rudd, Larry R., to Knapheide Mfg. Co., The. Bracket for mounting a truck body on a chassis. 4,634,168, 1-6-87, Cl. 296-35.100.

Fuchs, Dieter; and Schmitt, Wolfgang, to Carl Freudenberg, Firma. Shaft and radially sealing ring with cold flexed seal disk and a method of its use for sealing the crankshaft of a two-cycle engine. 4,645,215, 2-24-87, Cl. 277-152.000.

uchs, Ernst; and Fitzi, Karl, to Mecapec S.A. Apparatus for mechanical purification of waste water. 4,639,315, 1-27-87, Cl. 210-333.100.

uchs, Francis J., Jr. Continuous extrusion apparatus. 4,633,699, 1-6-87, Cl. 72-262.000.

uchs, Francis J., Jr. Shell forming apparatus and process. 4,644,775, 2-24-87, Cl. 72-348.000.

uchs, Francis J., Jr. Continuous extrusion apparatus. 4,687,422, 8-18-87, Cl. 417-345.000.

uchs, Francis J., Jr. Apparatus and process for providing tubing with at least one internal spiral groove or fin. 4,702,096, 10-27-87, Cl. 72-68.000.

uchs, Francis J., Jr. Apparatus and process for forced lubrication piercing. 4,703,639, 11-3-87, Cl. 72-45.000.

uchs, Fritz-Reichard, and Staendeke, Horst, to Hoechst Aktiengesellschaft. Difficulty flammable extruded articles, especially extruded boards, and a process for making them. 4,670,484, 6-2-87, Cl. 523-205.000.

uchs, Fritz-Reichard; and Staendeke, Horst, to Hoechst Aktiengesellschaft; and Karl Danzer Furnierwerke. Difficultly flammable veneered or coated extruded boards. 4,701,373, 10-20-87, Cl. 428-326.000.

Fuchs, Gerhard, to Fuchs Systemtechnik GmbH. Apparatus for introducing filling material which is capable of flow into a tap hole disposed in the bottom of a metallurgical vessel. 4,647,021, 3-3-87, Cl. 266-271.000.

Fuchs, Gerhard: *See*—
- Ehle, Joachim; Fuchs, Gerhard; Kimmer, Klaus; and Langfeldt, Horst-Rudiger, 4,696,013, Cl. 373-71.000.

Fuchs, Hans P.; and Goetz, Jurgen R., to Siemens Aktiengesellschaft. Integrable decoding circuit. 4,694,278, 9-15-87, Cl. 340-347.0DD.

Fuchs, Harald: *See*—
- Petermann, Juergen; and Fuchs, Harald, 4,647,523, Cl. 430-296.000.

Fuchs, Helmut, to Karl Lumberg GmbH & Co. Terminal strip connector block. 4,669,806, 6-2-87, Cl. 439-712.000.

Fuchs, Helmut, to Textilmaschinenfabrik Dr. Ernst Fehrer Aktiengesellschaft. Apparatus for making a yarn. 4,697,412, 10-6-87, Cl. 57-401.000.

Fuchs, Hermann: *See*—
- Mischke, Peter, and Fuchs, Hermann, 4,652,634, Cl. 534-642.000.

Fuchs, Hugo; Brand, Uwe; and Buchaeckert, Helmut, to BASF Aktiengesellschaft. Obtaining caprolactam by cleaving oligomers of caprolactam. 4,683,305, 7-28-87, Cl. 540-533.000.

Fuchs, Karlheinz: *See*—
- Lotz, Werner; Fuchs, Karlheinz; and Haller, Siegmund, 4,715,861, Cl. 8-94.180.

Fuchs, Manfred: *See*—
- Brown, Neil; Kudermann, Gerhard; and Fuchs, Manfred, 4,668,486, Cl. 423-130.000.

Fuchs, Otto, to Burroughs Corporation. Bevel tool. 4,660,330, 4-28-87, Cl. 51-216.00R.

Fuchs, Otto: *See*—
- Schindler, Abbott M., and Fuchs, Otto, 4,707,948, Cl. 51-216.00R.

Fuchs, Paul: *See*—
- Antes, Gregor; Halder, Mathis; Fuchs, Paul; and Gehr, Peter, 4,685,138, Cl. 382-12.000.

Fuchs, Peter M., to Advanced Micro Devices, Inc. Document resolution-adaption method and apparatus. 4,644,409, 2-17-87, Cl. 358-256.000.

Fuchs Systemtechnik GmbH: *See*—
- Ehle, Joachim, 4,674,102, Cl. 373-98.000.
- Ehle, Joachim; Timm, Klaus; and Ahlers, Heinfried, 4,682,341, Cl. 373-99.000.
- Ehle, Joachim; Fuchs, Gerhard; Kimmer, Klaus; and Langfeldt, Horst-Rudiger, 4,696,013, Cl. 373-71.000.
- Fuchs, Gerhard, 4,647,021, Cl. 266-271.000.

Fuchs, Timothy J., to Owens-Illinois, Inc. Tamper indicating package. 4,655,356, 4-7-87, Cl. 215-230.000.

Fuchs, Uwe; and Reimann, Hans, to Linde Aktiengesellschaft. Anaerobic treatment of wastewater. 4,664,803, 5-12-87, Cl. 210-603.000.

Fuchs, Uwe, to Linde Aktiengesellschaft. Process and means for conducting the denitrification of water. 4,715,958, 12-29-87, Cl. 210-605.000.

Fuchs, Werner; and Rebeaud, Jean-Claude, to Bobst SA. Device for preparing a cutting tool. 4,697,338, 10-6-87, Cl. 29-799.000.

Fuchs, Willi: *See*—
- Ruegg, Christoph; Voirol, Peter; Fuchs, Willi; and Meister, Hans U., 4,715,739, Cl. 403-30.000.

Fucich, Lorraine: *See*—
- Spofford, Bruce S.; Fucich, Lorraine; Howell, David A.; Nee, John D.; and Green, Richard A., 4,675,961, Cl. 29-33.00K.

Fucito, Dermot T.; Paul, James E.; and Markovic, Milan, to Northern Telecom Limited. Noise reduction in companding arrangements. 4,642,583, 2-10-87, Cl. 333-14.000.

Fucito, Dermot T., to Northern Telecom Limited. Constant current circuits. 4,716,358, 12-29-87, Cl. 323-316.000.

Fudala, Chester: *See*—
- McFalls, Bob L.; Myers, Timothy S.; and Fudala, Chester, 4,685,735, Cl. 297-362.000.

Fudan University: *See*—
- Hua, Zhong-yi, 4,704,532, Cl. 250-292.000.

Fuderer, Andrija, to Union Carbide Corporation. Integrated process and apparatus for the primary and secondary catalytic steam reforming of hydrocarbons. 4,650,651, 3-17-87, Cl. 422-191.000.

Fudge, Kent D., to Atlantic Richfield Company. Expandable polypropylene interpolymer particles. 4,666,946, 5-19-87, Cl. 521-59.000.

Fudge, Kent D., to Atlantic Richfield Company. Expandable polypropylene interpolymer particles. 4,677,134, 6-30-87, Cl. 521-59.000.

Fudge, Kent D., to Atlantic Richfield Company. Expandable polypropylene interpolymer particles. 4,692,471, 9-8-87, Cl. 521-59.000.

Fudo Construction Co., Ltd.: *See*—
- Hiroshima, Toshio; Tamura, Mamoru; and Sakaizumi, Mikio, 4,676,693, Cl. 405-50.000.

Fudo, Eiji: *See*—
- Fukuda, Michio; Fudo, Eiji; Tani, Koichi; and Kobayashi, Haruhito, 4,653,182, Cl. 29-754.000.

Fuehrer, Charles, to Stoffel Seals Corporation. Tamper indicating cap seal for container valves. 4,712,705, 12-15-87, Cl. 220-270.000.

Fuentes, Ricardo, Jr.; Marchand, Gary R.; and Meiske, Larry A., to Dow Chemical Company, The. Method for preparing transition metal component of Ziegler-Natta catalysts. 4,661,465, 4-28-87, Cl. 502-111.000.

Fuerhoff, Richard: *See*—
- Riss, Gerhard; and Fuerhoff, Richard, 4,714,034, Cl. 112-113.000.

Fuerst, Arpad; and Wingen, Bernhard, to Webasto-Werk W. Baier GmbH & Co. Vehicle roof. 4,659,140, 4-21-87, Cl. 296-223.000.

Fuerst, Arpad: *See*—
- Kohlpaintner, Georg; Fuerst, Arpad; and Bienert, Horst, 4,647,104, Cl. 296-221.000.

Fuerst, Erwin J. Biopsy needle. 4,651,752, 3-24-87, Cl. 128-754.000.

Fuerstman, Myron M. Bright metalized fabric and method of producing such a fabric. 4,657,807, 4-14-87, Cl. 428-263.000.

Fuganti, Claudio: *See*—
- Casati, Paolo; and Fuganti, Claudio, 4,664,852, Cl. 260-501.130.

Fugate, Jimmy D. Extension handle for wrenches. 4,644,600, 2-24-87, Cl. 7-166.000.

Fugger, Gerhard: *See*—
- Nagl, Michael; Fugger, Gerhard; Mraz, Jaroslav; Mailander, Horst; Rottenmanner, Ernst; Rauber, Norbert; and Luger, Wolfgang, 4,708,643, Cl. 432-95.000.

Fuji Jukogyo Kabushiki Kaisha: *See*—
- Ohtaki, Kiyoshi; and Hara, Kazuo, 4,651,695, Cl. 123-438.000.

Fugier, Claude; Leroux, Michel; Normant, Jean F.; and Alexakis, Alexandre, to Oril S.A. New process for the preparation of 1,3,5-undecatrienes. 4,652,692, 3-24-87, Cl. 585-600.000.

Fugier, Roger; de Mezerac, Charles D.; Joachim, Jacky; and Decagny, Michel, to Isover Saint-Gobain. Phenol-hcho-urea resin for a sizing composition, a process for its perparation and the sizing composition obtained. 4,663,419, 5-5-87, Cl. 528-164.000.

Fugier, Roger; de Goys de Mezerac, Charles; Joachim, Jacky; and Decagny, Michel, to Isover Saint-Gobain. Resin for a sizing composition, a process for its preparation and the sizing composition obtained. 4,710,406, 12-1-87, Cl. 427-389.800.

Fugitt, Cullen Wayne: *See*—
- Andrews, John R., 4,709,648, Cl. 114-363.000.

Fugleberg, Sigmund P.; and Poijarvi, Jaakko I., to Outokumpu Oy. Hydrometallurgical method for treating valuable metal raw materials containing chlorides and fluorides. 4,698,139, 10-6-87, Cl. 204-112.000.

Fugler, Andrew R.: *See*—
- Goodman, Howard, and Fugler, Andrew R., 4,695,511, Cl. 428-404.000.

Fugner, Armin: *See*—
- Schromm, Kurt; Mentrup, Anton; Renth, Ernst-Otto; Fugner, Armin; and Streller, Ilse, 4,647,563, Cl. 514-234.000.
- Walther, Gerhard; Schneider, Claus; Weber, Karl-Heinz; and Fugner, Armin, 4,686,219, Cl. 514-220.000.

Fuhge, Peter; Heimburger, Norbert; Stohr, Hans-Arnold; and Burk, Wolfgang, to Behringwerke Aktiengesellschaft. Readily dissolvable lyophilized fibrinogen formulation. 4,650,678, 3-17-87, Cl. 424-101.000.

Fuhner, Hubert; and Henn, Stefan, to Robert Krups Stiftung & Co. KG. Food processor. 4,669,672, 6-2-87, Cl. 241-57.000.

Fuhr, Werner: *See*—
- Brunn, Horst; Schulten, Gerd-Hermann; and Fuhr, Werner, 4,701,221, Cl. 106-304.000.
- Rademachers, Jakob; Turban, Karlheinz; Franz, Gerhard; Fuhr, Werner; and Holle, Bernd, 4,681,637, Cl. 106-304.000.

Fuhrbach, Hans-Wilhelm: *See*—
- Proksa, Ferdinand; Sulzbach, Hans-Michael; Rohrig, Lothar; and Fuhrbach, Hans-Wilhelm, 4,693,448, Cl. 249-162.000.

Fuhrer, Gerd: *See*—
- Osterloff, Kurt; and Fuhrer, Gerd, 4,687,081, Cl. 192-53.00F.

Fuhrer, Wolfgang: *See*—
- Heinzler, Franz; and Fuhrer, Wolfgang, 4,672,315, Cl. 324-158.0SC.
- Salzburg, Herbert; Hajek, Manfred; Hagemann, Hermann; Kuhle, Engelbert; Fuhrer, Wolfgang; Hanssler, Gerd; Brandes, Wilhelm; and Reinecke, Paul, 4,713,389, Cl. 514-373.000.

Fuhrman, Ari, to Color Optics, Ltd. Method of pigmenting water-absorbable plastic and products therefrom. 4,638,025, 1-20-87, Cl. 524-40.000.

Fuhrman, James L.: *See*—
- Watson, George A.; Co, Ramon S.; Fuhrman, James L.; and Avella, Frank, 4,706,244, Cl. 370-69.100.

Fuhrmann, Castor: *See*—
- Freitag, Herbert; Fuhrmann, Castor; and Kortgen, Bernd, 4,651,979, Cl. 267-64.130.
- Freitag, Herbert; Fuhrmann, Castor; and Hosan, Hans-Josef, 4,709,790, Cl. 188-300.000.

Fuhrmann, Horst, to Dynamit Nobel Aktiengesellschaft. Process for the production of closed-cell foam molded articles of crosslinked polyolefin. 4,671,910, 6-9-87, Cl. 264-54.000.

Fuhs, Eric D., to Zenith Electronics Corporation. Pivoting mount for detachable keyboard. 4,704,604, 11-3-87, Cl. 340-700.000.

Fuisz, Richard C. Urine collecting device. 4,700,714, 10-20-87, Cl. 128-767.000.

Fuji Electric Co., Ltd.: *See—*

Akiike, Katsumi; Ichikawa, Haruo; Izumi, Kanichi; and Onodera, Tadayoshi, 4,670,728, Cl. 337-49.000.
Fujiwara, Norio; Takahashi, Nobuyuki; and Otsuki, Akihiro, 4,713,279, Cl. 428-142.000.
Fukuhara, Masanori; and Kawasaki, Kikuo, 4,672,611, Cl. 371-59.000.
Hama, Toshio, 4,700,463, Cl. 437-2.000.
Hirota, Toshio, 4,692,391, Cl. 429-34.000.
Hongo, Yasuo, 4,701,961, Cl. 382-34.000.
Hongo, Yasuo, 4,712,248, Cl. 382-22.000.
Hongo, Yusuo; and Nitta, Yoshio, 4,641,355, Cl. 382-34.000.
Ichikawa, Haruo; Chida, Fumio; Akiike, Katsumi; and Izumi, Kanichi, 4,642,598, Cl. 337-82.000.
Ishikawa, Hiroshi; and Yoshigae, Kiyohisa, 4,689,598, Cl. 337-295.000.
Kanda, Atsushi; Kitani, Kazuo; and Shirai, Kiichirou, 4,705,102, Cl. 165-104.330.
Kato, Toshiaki, 4,679,089, Cl. 358-213.190.
Kato, Toshiaki, 4,691,242, Cl. 358-294.000.
Kato, Toshiaki; Ueno, Masakazu; and Nishiura, Masaharu, 4,698,494, Cl. 250-211.00R.
Kawabata, Osamu, 4,710,705, Cl. 324-102.000.
Kazama, Toyoki; Aizawa, Koichi; Yamaguchi, Kiyoto; Hara, Kenichi; and Iijima, Toshiyuki, 4,675,265, Cl. 430-67.000.
Kohanawa, Akihiko; and Kandatsu, Kiyoshi, 4,635,012, Cl. 335-16.000.
Kurita, Masaya, 4,642,825, Cl. 5-453.000.
Kuroki, Kazuo, 4,639,823, Cl. 361-159.000.
Maruyama, Kazumi, 4,633,811, Cl. 118-723.000.
Miyoshi, Noriomi; Tsuruoka, Michihiko; and Nagumo, Mutsumi, 4,648,280, Cl. 73-861.240.
Monno, Asao; Watanabe, Kiyoo; and Kaneko, Kazuyuki, 4,695,729, Cl. 250-358.100.
Murase, Takashi; and Koizumi, Tatsuya, 4,675,783, Cl. 361-385.000.
Nakajima, Yo; Nakajima, Yoshihisa; and Ushijima, Yoshio, 4,636,963, Cl. 364-479.000.
Nakamura, Junji; Nishimura, Ikuma; Saito, Goro; and Matsumoto, Kozo, 4,710,436, Cl. 429-41.000.
Nishiura, Masaharu; and Ueno, Masakazu, 4,634,883, Cl. 250-578.000.
Nishiura, Masaharu; Fujisawa, Hakubun; and Yamada, Katsumi, 4,658,132, Cl. 250-231.0SE.
Nishiura, Masaharu; and Nagakusa, Shinichiro, 4,659,920, Cl. 250-211.00J.
Nishiura, Masaharu; and Katou, Toshiaki, 4,665,008, Cl. 430-314.000.
Nishiura, Masaharu, 4,689,874, Cl. 437-2.000.
Sano, Yasukazu, 4,702,550, Cl. 350-96.160.
Sasaki, Shoji, 4,634,985, Cl. 328-129.100.
Sato, Noritada; Suzuki, Toshikazu; and Seki, Yasukazu, 4,689,649, Cl. 357-29.000.
Sato, Yusho; and Koizumi, Koji, 4,704,704, Cl. 364-900.000.
Seki, Yasukazu; Sato, Noritada; and Yabe, Masaya, 4,692,782, Cl. 357-29.000.
Shigekane, Hisao, 4,651,035, Cl. 307-570.000.
Shin, Shigeo; Takatsu, Tamao; Saito, Teiichiro; Kikuchi, Akiyoshi; and Nakanishi, Tsuneo, 4,673,123, Cl. 228-263.130.
Suzuki, Kiziro; Isoguchi, Seiichi; Watanabe, Koji; Yokoyama, Shotaro; and Nishibe, Takashi, 4,652,119, Cl. 356-1.000.
Suzuki, Kiziro; Tsutsumi, Takashi; Yokoyama, Shotaro; and Nishibe, Takashi, 4,668,084, Cl. 356-1.000.
Tago, Keiichiro, 4,636,712, Cl. 323-349.000.
Tajima, Hiroyuki, 4,657,826, Cl. 429-12.000.
Tajima, Hiroyuki, 4,657,828, Cl. 429-12.000.
Takabayashi, Yasuhiro, 4,677,037, Cl. 429-9.000.
Taniguchi, Harutaka; and Fumoto, Takafumi, 4,692,622, Cl. 250-343.000.
Tominaga, Hiroshi, 4,694,521, Cl. 5-453.000.
Tomita, Hiroo, 4,642,483, Cl. 307-300.000.
Toshiaki, Kato, 4,700,233, Cl. 358-213.220.
Ueno, Masakazu, 4,656,109, Cl. 430-46.000.
Ueno, Masakazu; and Kato, Toshiaki, 4,664,748, Cl. 156-659.100.
Ueno, Masakazu, 4,709,992, Cl. 350-339.00R.
Uno, Masahiro; and Tanaka, Takeo, 4,651,004, Cl. 250-343.000.
Yamamura, Sakae; and Yamaguchi, Hitoshi, 4,646,651, Cl. 104-281.000.
Yamano, Kenji; and Tamamura, Tetsuo, 4,635,491, Cl. 74-89.150.
Yokomori, Shinji, 4,690,263, Cl. 194-317.000.
Yokoyama, Shotaro; and Nishibe, Takashi, 4,640,613, Cl. 356-1.000.
Yokoyama, Shotaro; and Nishibe, Takashi, 4,659,205, Cl. 354-408.000.

Fuji Electric Corporate Research and Development Co., Ltd.: *See—*

Nakazawa, Toshiyuki; and Izumi, Akio, 4,685,808, Cl. 356-416.000.
Nishiura, Masaharu; Fujisawa, Hakubun; and Yamada, Katsumi, 4,658,132, Cl. 250-231.0SE.
Nishiura, Masaharu, 4,658,133, Cl. 250-231.0SE.
Nishiura, Masaharu; and Haruki, Hiromu, 4,692,345, Cl. 427-39.000.
Sagisawa, Shinobu; Takahama, Teizo; and Kobayashi, Mitsuo, 4,695,963, Cl. 364-513.000.
Seki, Yasukazu; Sato, Noritada; and Yabe, Masaya, 4,692,782, Cl. 357-29.000.
Shin, Shigeo; Takatsu, Tamao; Saito, Teiichiro; Kikuchi, Akiyoshi; and Nakanishi, Tsuneo, 4,673,123, Cl. 228-263.130.
Suzuki, Kiziro; Isoguchi, Seiichi; Watanabe, Koji; Yokoyama, Shotaro; and Nishibe, Takashi, 4,652,119, Cl. 356-1.000.
Suzuki, Kiziro; Tsutsumi, Takashi; Yokoyama, Shotaro; and Nishibe, Takashi, 4,668,084, Cl. 356-1.000.
Taniguchi, Harutaka; and Fumoto, Takafumi, 4,692,622, Cl. 250-343.000.
Toyoda, Taro; and Seki, Yasukazu, 4,671,651, Cl. 356-44.000.
Uchida, Yoshiyuki; and Nishiura, Masaharu, 4,658,233, Cl. 338-5.000.
Ueno, Katsunori, 4,645,955, Cl. 307-518.000.
Ueno, Masakazu; and Kato, Toshiaki, 4,664,748, Cl. 156-659.100.
Uno, Masahiro; and Tanaka, Takeo, 4,651,004, Cl. 250-343.000.
Yamamura, Sakae; and Yamaguchi, Hitoshi, 4,646,651, Cl. 104-281.000.
Yokoyama, Shotaro; and Nishibe, Takashi, 4,640,613, Cl. 356-1.000.
Yokoyama, Shotaro; and Nishibe, Takashi, 4,659,205, Cl. 354-408.000.

Fuji Electrochemical Co., Ltd.: *See—*

Kato, Noboru; Matsuura, Hideji; and Umemura, Shinichiro, 4,701,830, Cl. 361-395.000.
Nonaka, Masami; Kato, Noboru; and Hibi, Kazuhiro, 4,677,401, Cl. 333-167.000.

Fuji Facom Corporation: *See—*

Monno, Asao; Watanabe, Kiyoo; and Kaneko, Kazuyuki, 4,695,729, Cl. 250-358.100.

Fuji Heavy Industries, Ltd.: *See—*

Noto, Yasuo; and Sugimoto, Shun-ichiro, 4,708,220, Cl. 180-142.000.
Washizu, Shoichi; Morijiri, Takeshi; Kogure, Kazuo; and Arimitsu, Satoshi, 4,679,668, Cl. 188-353.000.

Fuji Jukogyo Kabushiki Kaisha: *See—*

Abe, Kunihiro; Matsumura, Yoshitake; and Morozumi, Takurou, 4,644,920, Cl. 123-479.000.
Abe, Kunihiro, 4,672,935, Cl. 123-339.000.
Abe, Kunihiro, 4,672,936, Cl. 123-239.000.
Abe, Kunihiro; Matsumura, Yoshitake; and Morozumi, Takurou, 4,698,765, Cl. 364-431.040.
Harada, Mitsuyoshi, 4,696,266, Cl. 123-182.000.
Higuchi, Masaaki; and Atsuumi, Masaru, 4,660,521, Cl. 123-376.000.
Inaba, Mitsuharu; Sekiguchi, Takashi; Yoneyama, Yoshio; and Suzuki, Tadashi, 4,639,182, Cl. 414-543.000.
Kamimaru, Shinji, 4,664,077, Cl. 123-54.00R.
Kataoka, Ryuji, 4,651,694, Cl. 123-339.000.
Kataoka, Ryuji, 4,664,085, Cl. 123-478.000.
Kitade, Nobumitsu, 4,705,134, Cl. 180-233.000.
Kitade, Nobumitsu, 4,708,227, Cl. 192-0.055.
Kitade, Nobumitsu, 4,711,318, Cl. 180-247.000.
Kobayashi, Toshio; and Mura, Shinichirou, 4,651,848, Cl. 180-247.000.
Kobayashi, Toshio, 4,662,235, Cl. 74-476.000.
Kodama, Masayuki; and Ohgami, Masaaki, 4,664,216, Cl. 180-233.000.
Kurokawa, Ryogo; Oyama, Fusami; Takahashi, Akira; and Hirose, Kenji, 4,652,002, Cl. 180-79.100.
Kurokawa, Ryogo; Oyama, Fusami; and Takahashi, Akira, 4,695,069, Cl. 280-91.000.
Matsui, Fujio, 4,682,097, Cl. 320-64.000.
Matsumoto, Rempei, 4,699,237, Cl. 180-250.000.
Miyamoto, Yasuhiko, 4,694,810, Cl. 123-516.000.
Miyawaki, Motohisa, 4,651,595, Cl. 74-866.000.
Miyawaki, Motohisa, 4,656,892, Cl. 74-868.000.
Miyawaki, Motohisa, 4,657,522, Cl. 474-12.000.
Miyawaki, Motohisa, 4,659,321, Cl. 474-28.000.
Miyawaki, Motohisa, 4,674,363, Cl. 74-866.000.
Miyawaki, Motohisa; and Sakakiyama, Ryuzo, 4,675,818, Cl. 364-424.100.
Miyawaki, Motohisa, 4,680,711, Cl. 364-424.100.
Miyawaki, Motohisa, 4,680,991, Cl. 74-868.000.
Morikawa, Koji, 4,704,996, Cl. 123-188.00M.
Morimoto, Yoshihiko, 4,672,864, Cl. 74-866.000.
Morimoto, Yoshihiko, 4,680,987, Cl. 74-866.000.
Morimoto, Yoshihiko; and Tezuka, Kazunari, 4,708,031, Cl. 74-866.000.
Nagai, Masaaki, 4,691,678, Cl. 123-425.000.
Nagai, Masaaki, 4,694,801, Cl. 123-425.000.
Nagai, Masaaki, 4,715,342, Cl. 123-425.000.
Nakamura, Hiroyuki; and Ohgami, Masaaki, 4,663,991, Cl. 74-868.000.
Ohgami, Masaaki, 4,680,990, Cl. 74-868.000.
Ohgami, Masaaki; Yasuda, Hiroki; and Kubota, Masaharu, 4,697,564, Cl. 123-440.000.
Ohkumo, Hiroya, 4,633,831, Cl. 123-325.000.
Ohtaki, Kiyoshi; and Hara, Kazuo, 4,651,699, Cl. 123-438.000.
Ohtaki, Kiyoshi; and Hara, Kazuo, 4,655,181, Cl. 123-440.000.
Ohtaki, Kiyoshi; and Hara, Kazuo, 4,671,238, Cl. 123-438.000.
Okamura, Minoru, 4,711,333, Cl. 192-0.076.
Onoda, Junjiro, 4,667,451, Cl. 52-646.000.
Oshita, Saiichiro; Mouri, Toyohiko; and Uemura, Yuji, 4,664,211, Cl. 180-142.000.

- Oshita, Saiichiro, 4,681,183, Cl. 180-79.100.
- Oyama, Fusami; and Takahashi, Akira, 4,681,180, Cl. 180-76.000.
- Sakai, Yasuhito, 4,638,689, Cl. 74-866.000.
- Sakai, Yasuhito; and Yamada, Kenichi, 4,690,011, Cl. 74-475.000.
- Sakai, Yasuhito, 4,704,097, Cl. 474-28.000.
- Sakai, Yasuhito, 4,708,694, Cl. 474-28.000.
- Sakai, Yasuhito, 4,710,151, Cl. 474-28.000.
- Sakai, Yasuhito, 4,715,467, Cl. 180-247.000.
- Sakakiyama, Ryuzo, 4,657,123, Cl. 192-3.580.
- Sakakiyama, Ryuzo, 4,660,699, Cl. 192-0.075.
- Sakakiyama, Ryuzo, 4,662,496, Cl. 192-0.076.
- Sakakiyama, Ryuzo, 4,669,591, Cl. 192-0.076.
- Sakakiyama, Ryuzo, 4,674,610, Cl. 192-0.052.
- Sakakiyama, Ryuzo, 4,674,611, Cl. 192-3.560.
- Sakakiyama, Ryuzo; and Miyawaki, Motohisa, 4,675,817, Cl. 364-424.100.
- Sakakiyama, Ryuzo, 4,679,674, Cl. 192-0.052.
- Sakakiyama, Ryuzo; and Takano, Toshio, 4,680,712, Cl. 364-424.100.
- Sakakiyama, Ryuzo, 4,711,317, Cl. 180-197.000.
- Sugiura, Katsuhiko, 4,683,863, Cl. 123-568.000.
- Sumi, Kiyohide, 4,672,930, Cl. 123-182.000.
- Suzuki, Tsunehiko, 4,658,777, Cl. 123-192.00B.
- Takahashi, Toshio, 4,646,008, Cl. 324-158.0MG.
- Takano, Toshio; and Sakakiyama, Ryuzo, 4,644,827, Cl. 74-866.000.
- Takano, Toshio; and Takahashi, Masahiko, 4,645,046, Cl. 192-4.00A.
- Yamada, Kenichi, 4,671,133, Cl. 74-530.000.
- Yamakawa, Toru, 4,662,490, Cl. 192-0.070.
- Yamashita, Masatoshi; and Tsunoda, Norio, 4,695,059, Cl. 273-360.000.
- Fuji Kagakushi Kogyo Co., Ltd.: *See—*
  - Inaba, Masatsugu; and Murasaki, Takumi, 4,634,629, Cl. 428-343.000.
  - Kawaguchi, Kiyoshi, 4,651,943, Cl. 242-68.300.
  - Shini, Masami, 4,713,281, Cl. 428-207.000.
  - Watanabe, Hiroaki, 4,684,272, Cl. 400-242.000.,
- Fuji Kiko Company, Limited: *See—*
  - Ikegaya, Isao; and Kawashima, Hatsuo, 4,660,795, Cl. 248-430.000.
  - Narue, Atsushi; Saitoh, Shigeru; and Maruyama, Tomoyuki, 4,702,722, Cl. 464-93.000.
- Fuji Kogyo Co., Ltd.: *See—*
  - Ohmura, Ryuichi, 4,646,462, Cl. 43-23.000.
  - Ohmura, Ryuichi, 4,653,217, Cl. 43-20.000.
  - Ohmura, Ryuichi, 4,702,032, Cl. 43-22.000.
- Fuji Kogyo Kabushiki Kaisha: *See—*
  - Nakajima, Junichi; Nakayama, Kenji; and Takizawa, Takeshi, 4,685,498, Cl. 144-208.00B.
  - Nakajima, Junichi, 4,691,750, Cl. 144-208.00B.
- Fuji Koki Manufacturing Co., Ltd.: *See—*
  - Kawahira, Mutsuyoshi, 4,650,156, Cl. 251-129.110.
  - Kawahira, Mutsuyoshi, 4,703,545, Cl. 29-157.10R.
- Fuji Machine Mfg. Co., Ltd.: *See—*
  - Asai, Koichi; Tsuda, Mamoru; and Kodama, Jiro, 4,649,635, Cl. 29-759.000.
  - Asai, Koichi; Tsuda, Mamoru; and Kodama, Jiro, 4,660,280, Cl. 29-759.000.
- Fuji Machinery Company, Ltd.: *See—*
  - Umeda, Yoshiaki; Matsumoto, Ryouhei; Isomura, Hiroyasu; and Shimotaka, Hisakuni, 4,691,499, Cl. 53-451.000.
- Fuji Oil Çompany, Ltd.: *See—*
  - Hirotsuka, Motohiko; Harada, Tetsuro; Ohtsubo, Nobuhiro; Kawade, Hiroyuki; Hayakawa, Yoshiyuki; and Taniguchi, Hitoshi, 4,702,927, Cl. 426-467.000.
  - Yokoyama, Hitoshi; and Iwanaga, Yukiya, 4,708,876, Cl. 426-33.000.
- Fuji Paudal Kabushiki Kaisha: *See—*
  - Moriya, Nobuharu, 4,655,701, Cl. 425-222.000.
- Fuji Photo Film Co., Ltd.: *See—*
  - Aagano, Toshitaka; and Takasaki, Yoshimi, 4,642,462, Cl. 250-327.200.
  - Aagano, Toshitaka; and Takasaki, Yoshimi, 4,655,590, Cl. 356-72.000.
  - Aagano, Toshitaka; and Takasaki, Yoshimi, 4,687,937, Cl. 250-484.100.
  - Aagano, Toshitaka, 4,689,690, Cl. 358-265.000.
  - Abe, Akira; Nakajima, Junya; and Nishikawa, Toshihiro, 4,695,529, Cl. 430-351.000.
  - Agano, Toshitaka, 4,661,708, Cl. 250-327.200.
  - Akao, Mutsuo, 4,639,386, Cl. 428-35.000.
  - Akao, Mutsuo, 4,653,640, Cl. 206-455.000.
  - Akao, Mutsuo, 4,661,395, Cl. 428-213.000.
  - Akao, Mutsuo, 4,661,401, Cl. 428-215.000.
  - Akao, Mutsuo, 4,663,218, Cl. 428-212.000.
  - Akao, Mutsuo, 4,687,692, Cl. 428-137.000.
  - Akao, Mutsuo, 4,701,359, Cl. 428-35.000.
  - Akao, Mutsuo, 4,708,896, Cl. 428-35.000.
  - Akimoto, Taizo; and Nagai, Asaki, 4,701,800, Cl. 358-244.000.
  - Akimoto, Taizo; and Kawai, Masahiko, 4,709,268, Cl. 358-150.000.
  - Aoki, Kozo; Ono, Michio; Saito, Naoki; and Umemoto, Makoto, 4,686,177, Cl. 430-553.000.
  - Aono, Toshiaki; Nakamura, Koichi; Shibata, Takeshi; and Nakamura, Taku, 4,636,455, Cl. 430-203.000.
  - Aono, Toshiaki; and Hara, Hiroshi, 4,639,407, Cl. 430-203.000.
  - Aono, Toshiaki; Sato, Kozo; Mukunoki, Yasuo; and Nakamura, Koichi, 4,665,005, Cl. 430-203.000.
  - Aono, Toshiaki; and Nakamura, Koichi, 4,704,344, Cl. 430-203.000.
  - Aono, Toshiaki; and Hara, Hiroshi, 4,713,319, Cl. 430-567.000.
  - Aonuma, Masashi; Suzuki, Masaaki; Sakakibara, Satoshi; Hibino, Noburo; and Kamada, Koh, 4,663,209, Cl. 428-141.000.
  - Aonuma, Masashi; Watanabe, Hideomi; Miyoshi, Takahito; and Okita, Tsutomu, 4,686,149, Cl. 428-522.000.
  - Aotsuka, Yasuo; Konishi, Masahiro; and Takahashi, Koji, 4,710,631, Cl. 250-354.100.
  - Aoyama, Kazunori, 4,640,473, Cl. 242-197.000.
  - Arai, Noboru; and Shinada, Hidetoshi, 4,667,099, Cl. 250-235.000.
  - Arai, Noboru; and Yanagimoto, Takekazu, 4,693,555, Cl. 350-253.000.
  - Arai, Yoshihiro; and Nahara, Akira, 4,639,815, Cl. 360-131.000.
  - Arai, Yoshihiro; and Shirahata, Ryuji, 4,643,915, Cl. 427-130.000.
  - Arai, Yoshihiro; Nahara, Akira; and Fukino, Kiyotaka, 4,652,483, Cl. 428-216.000.
  - Arakawa, Satoshi; and Matsuda, Terumi, 4,64[illegible],721, Cl. 428-690.000.
  - Arakawa, Satoshi; and Nonomura, Masamitu, 4,713,549, Cl. 250-484.100.
  - Arito, Tatsunari; and Tojo, Yu, 4,712,905, Cl. 355-3.0CH.
  - Asai, Eiichi; Tanaka, Hiroshi; and Higashi, Nobuaki, 4,641,267, Cl. 364-414.000.
  - Asai, Takamitsu; and Fujiyama, Masaaki, 4,657,813, Cl. 428-328.000.
  - Asai, Takamitsu; and Fujiyama, Masaaki, 4,657,814, Cl. 428-329.000.
  - Asai, Takamitsu; and Fujiyama, Masaaki, 4,666,770, Cl. 428-323.000.
  - Asai, Takamitsu; Akashi, Goro; Kitamoto, Tatsuji; Chikamasa, Hiroshi; and Sato, Tsunehiko, 4,678,682, Cl. 427-48.000.
  - Chikamasa, Hiroshi; and Sakaguchi, Masaaki, 4,679,744, Cl. 242-67.30R.
  - Cho, Michio, 4,691,996, Cl. 350-465.000.
  - Collins, Galen R.; and Garcia, Alberto G., 4,675,750, Cl. 360-9.100.
  - Dan, Shigeyuki; Ishii, Kazuo; Kato, Eiichi; and Sera, Hidefumi, 4,665,002, Cl. 430-114.000.
  - Deguchi, Naoyasu; Kojima, Tetsuro; Ohno, Shigeru; Nakamura, Koki; and Miyazaki, Hideo, 4,696,894, Cl. 430-551.000.
  - Ejiri, Kiyomi; and Komine, Shigeo, 4,652,500, Cl. 428-695.000.
  - Endo, Azuchi; and Akimoto, Taizo, 4,707,739, Cl. 358-139.000.
  - Ferrier, Herman, 4,639,794, Cl. 360-46.000.
  - Fujita, Munehisa; and Mitsui, Akio, 4,640,890, Cl. 430-504.000.
  - Fujita, Susumu; and Konagaya, Masahiko, 4,660,954, Cl. 354-403.000.
  - Fujiyama, Masaaki; Tsuji, Nobuo; and Yamaguchi, Nobutaka, 4,668,568, Cl. 428-323.000.
  - Fukai, Nobutaka; Ohara, Yuji; and Agano, Toshitaka, 4,648,685, Cl. 350-6.600.
  - Fukui, Takashi, 4,658,926, Cl. 356-444.000.
  - Hanai, Kazuko; and Yamada, Yasuyuki, 4,711,819, Cl. 428-425.900.
  - Hashimoto, Hiroshi; Okita, Tsutomu; and Hibino, Noburo, 4,673,590, Cl. 427-44.000.
  - Hashimoto, Hiroshi; Okita, Tsutomu; and Mukaida, Yoshito, 4,707,380, Cl. 427-40.000.
  - Hashiue, Masakazu; and Ogawa, Masashi, 4,640,759, Cl. 204-299.00R.
  - Hashiue, Masakazu; Ogawa, Masashi; and Nishio, Daijiro, 4,650,556, Cl. 204-182.700.
  - Hatanaka, Isamu, 4,689,666, Cl. 358-36.000.
  - Hayashi, Takayuki; Usami, Toshimasa; and Tanaka, Toshiharu, 4,686,547, Cl. 503-207.000.
  - Higashi, Akio; Shinada, Haruji; Kawajiri, Kazuhiro; Ono, Yoshihiro; Saitou, Mitsuo; Tamura, Hiroshi; and Ikeda, Mitsuru, 4,694,317, Cl. 357-30.000.
  - Higashi, Nobuaki; Nakajima, Nobuyoshi; and Tanaka, Hirosi, 4,652,999, Cl. 364-414.000.
  - Hino, Hiromasa, 4,704,647, Cl. 360-128.000.
  - Hirai, Hiroyuki; and Kawata, Ken, 4,637,902, Cl. 260-545.00R.
  - Hirai, Hiroyuki, 4,668,612, Cl. 430-523.000.
  - Hirai, Hiroyuki; and Naito, Hideki, 4,704,345, Cl. 430-203.000.
  - Hirai, Hiroyuki; Sato, Kozo; Yabuki, Yoshiharu; and Kawata, Ken, 4,705,737, Cl. 430-203.000.
  - Hishinuma, Kazuhiro; and Ohga, Akihiro, 4,683,377, Cl. 250-327.200.
  - Horikawa, Kazuo; and Ohara, Yuji, 4,638,156, Cl. 250-235.000.
  - Horikawa, Kazuo; and Watanabe, Hideo, 4,689,482, Cl. 250-205.000.
  - Horikawa, Kazuo, 4,700,066, Cl. 250-234.000.
  - Hosaka, Shunichi; Kurabayashi, Hiroyuki; and Inose, Jun, 4,668,602, Cl. 430-207.000.
  - Hosoi, Yuichi; Miyahara, Junji; Mori, Nobufumi; and Takahashi, Kenji, 4,651,220, Cl. 358-256.000.
  - Hosoi, Yuichi; Mori, Nobufumi; Takahashi, Kenji; and Miyahara, Junji, 4,694,171, Cl. 250-311.000.
  - Ichijima, Seiji; Sato, Shingo; Ono, Mitsunori; and Sasaki, Noboru, 4,652,516, Cl. 430-544.000.
  - Ichijima, Seiji; and Sasaki, Noboru, 4,698,297, Cl. 430-383.000.
  - Ichijima, Seiji; Ono, Mitsunori; Itoh, Isamu; Mihayashi, Keiji; Tamoto, Koji; and Nakamura, Yoshisada, 4,711,837, Cl. 430-548.000.
  - Ichikawa, Koji, 4,633,743, Cl. 83-100.000.
  - Idota, Yoshio; and Yagihara, Morio, 4,683,189, Cl. 430-248.000.
  - Igarashi, Akira; Ikeda, Kensuke; and Ikeda, Kenji, 4,646,113, Cl. 346-209.000.

Ihama, Mikio; Tani, Tadaaki; and Ohnishi, Hiroshi, 4,683,193, Cl. 430-570.000.

Ihama, Mikio; and Tani, Tadaaki, 4,693,965, Cl. 430-569.000.

Ikeda, Hideo; Ohno, Shigeru; Nakamura, Koki; and Miyasaka, Nobuaki, 4,657,847, Cl. 430-523.000.

Ikeda, Mitsuru, 4,698,308, Cl. 435-291.000.

Ikenoue, Shinpei; Mikawa, Akikazu; and Ichijima, Seiji, 4,647,527, Cl. 430-505.000.

Inagaki, Yoshio; and Shishido, Tadao, 4,711,963, Cl. 548-365.000.

Inatsuki, Kenichi, 4,641,019, Cl. 250-201.000.

Inatsuki, Kenichi, 4,710,818, Cl. 358-214.000.

Inoue, Nobuaki; Inagaki, Yoshio; and Kameoka, Kimitaka, 4,681,836, Cl. 430-434.000.

Inoue, Noriyuki, 4,654,297, Cl. 430-509.000.

Inoue, Noriyuki, 4,659,646, Cl. 430-230.000.

Inoue, Noriyuki, 4,677,052, Cl. 430-568.000.

Inuiya, Masafumi, 4,641,169, Cl. 357-30.000.

Inuiya, Masafumi; and Tabei, Masatoshi, 4,682,212, Cl. 358-44.000.

Inukai, Yuzo; Naruse, Yasuhito; Nakayama, Takao; and Kaneko, Nobuyoshi, 4,647,475, Cl. 427-44.000.

Ishiguro, Minoru; Kamoda, Takashi; Nishizawa, Tetuo; Nakayama, Shigeo; and Yoshida, Toshio, 4,669,845, Cl. 354-288.000.

Ishii, Toshio, 4,634,223, Cl. 350-276.0SL.

Ishikawa, Takatoshi; and Nakazyo, Kiyoshi, 4,681,835, Cl. 430-386.000.

Ishikuro, Tadashi; Honda, Kunihiko; Ohta, Masataka; and Shirahata, Ryuji, 4,661,421, Cl. 428-694.000.

Itakura, Toru; Ohara, Yuji; and Horikawa, Kazuo, 4,659,180, Cl. 350-320.000.

Itikawa, Koji, 4,676,445, Cl. 242-55.000.

Itoh, Haruo, 4,710,832, Cl. 360-10.200.

Iwakura, Ken; and Sugiyama, Takekatsu, 4,682,193, Cl. 503-209.000.

Iwasa, Masakazu; Morita, Kazuhiko; Nakatani, Sadao; and Nakamura, Eiji, 4,670,314, Cl. 428-35.000.

Iwasaki, Masayuki; Maeda, Minoru; and Fujikura, Sadao, 4,657,942, Cl. 522-16.000.

Iwasaki, Masayuki; Maeda, Minoru; and Shinozaki, Fumiaki, 4,661,434, Cl. 430-281.000.

Iwasaki, Takashi; and Mori, Keiji, 4,644,215, Cl. 310-367.000.

Kakimi, Fujio; and Mikami, Takeshi, 4,642,281, Cl. 430-138.000.

Kakimi, Fujio; Matsukawa, Hiroharu; Akiyoshi, Yutaka; and Kobayashi, Shinzo, 4,650,769, Cl. 436-533.000.

Kamiyama, Kouzi, 4,690,768, Cl. 252-62.580.

Kaneko, Kiyotaka; Nakadai, Katsuo; Miyake, Izumi; and Oda, Kazuya, 4,677,506, Cl. 360-77.000.

Kaneko, Rokusaburo; and Takenaka, Yuji, 4,643,562, Cl. 355-56.000.

Kaneko, Yujiro; and Tadano, Eiji, 4,663,850, Cl. 33-1.0BB.

Kataoka, Shinzi; Shinagawa, Yukio; and Sakaguchi, Shinji, 4,659,607, Cl. 428-143.000.

Kato, Hisatoyo; Kawai, Yasuhiro; Ohara, Yuji; Okamoto, Yoshihiko; Taniguchi, Yutaka; and Horikawa, Kazuo, 4,676,582, Cl. 350-6.500.

Kato, Masatoshi; and Kitaguchi, Hiroshi, 4,656,126, Cl. 430-559.000.

Kato, Mikihiko; Komine, Shigeo; Morita, Kazuhiko; and Okuzawa, Yasutoshi, 4,647,473, Cl. 427-44.000.

Kato, Mikihiko; Kato, Shinichi; Komatsu, Kazunori; and Komine, Shigeo, 4,652,461, Cl. 427-48.000.

Kato, Mikihiko; Komine, Shigeo; Okuzawa, Yasutoshi; and Morita, Kazuhiko, 4,652,480, Cl. 428-65.000.

Kato, Mikihiko; Komine, Shigeo; and Morita, Kazuhiko, 4,660,119, Cl. 360-133.000.

Kato, Mikihiko; Komine, Shigeo; Koyota, Katsumi; and Nakata, Kouji, 4,671,978, Cl. 428-65.000.

Kato, Mikihiko; Kato, Shinichi; Komatsu, Kazunori; and Komine Shigeo, 4,672,913, Cl. 118-623.000.

Kato, Mikihiko; Komine, Shigeo; Morita, Kazuhiko; and Okuzawa, Yasutoshi, 4,696,846, Cl. 428-65.000.

Kato, Mikihiko; Okuzawa, Yasutoshi; Komine, Shigeo; and Morita, Kazuhiko, 4,707,392, Cl. 428-65.000.

Katoh, Kazunobu; and Takaki, Hideki, 4,689,287, Cl. 430-230.000.

Katoh, Kazunobu, 4,701,400, Cl. 430-233.000.

Katou, Yoshiaki; Ueoka, Joe; and Yoshida, Satoshi, 4,703,383, Cl. 360-126.000.

Katsuyama, Harumi; Arai, Fuminori; Miyazako, Takushi; and Nagatomo, Shigeru, 4,671,937, Cl. 422-56.000.

Kawagishi, Toshio; and Nakazyo, Kiyoshi, 4,639,413, Cl. 430-546.000.

Kawagishi, Toshio; and Nakazyo, Kiyoshi, 4,659,652, Cl. 430-558.000.

Kawakami, Chikuni; and Nakadai, Katsuo, 4,660,102, Cl. 360-14.100.

Kawakami, Chikuni; and Sekizawa, Ikuhisa, 4,689,662, Cl. 358-14.000.

Kawamata, Toshio; Nishikawa, Yasuo; and Morita, Kazuhiko, 4,654,258, Cl. 428-323.000.

Kawamura, Keiichi, 4,694,256, Cl. 328-120.000.

Kawamura, Kouichi; Aotani, Yoshimasa; Umehara, Akira; and Horie, Seiji, 4,636,459, Cl. 430-288.000.

Kawata, Ken; Yabuki, Yoshiharu; Sato, Kozo; and Hirai, Hiroyuki, 4,636,462, Cl. 430-617.000.

Kawata, Ken; Yabuki, Yoshiharu; Sato, Kozo; and Hirai, Hiroyuki, 4,640,892, Cl. 430-617.000.

Kawata, Ken; Yabuki, Yoshiharu; Sato, Kozo; and Hirai, Hiroyuki, 4,647,526, Cl. 430-353.000.

Kawata, Ken; Yabuki, Yoshiharu, Sato, Kozo; and Hirai, Hiroyuki, 4,668,615, Cl. 430-617.000.

Kimura, Tsutomu, 4,641,242, Cl. 364-414.000

Kimura, Tsutomu; Fuseda, Yuichi; and Hishinuma, Kazuhiro, 4,700,299, Cl. 364-414.000.

Kimura, Tsutomu; and Watanabe, Yukio, 4,705,953, Cl. 250-484.100.

Kiritani, Masataka; Usami, Toshimasa; and Tanaka, Toshiharu, 4,665,411, Cl. 346-213.000.

Kitada, Akira, 4,704,538, Cl. 250-486.100.

Kitagawa, Keishi; and Abe, Hisamasa, 4,699,874, Cl. 430-538.000.

Kitaguchi, Hiroshi; and Kato, Masatoshi, 4,639,408, Cl. 430-351.000.

Kitaguchi, Hiroshi; and Kato, Masatoshi, 4,670,373, Cl. 430-353.000.

Kitaguchi, Hiroshi; Kato, Masatoshi; Sato, Kozo; Takeuchi, Masasi; and Tsukase, Masaaki, 4,678,735, Cl. 430-203.000.

Kitaguchi, Hiroshi; Takeuchi, Masashi; Sato, Kozo; Tsukase, Masaaki; and Kato, Masatoshi, 4,678,739, Cl. 430-353.000.

Kitamoto, Tatsuji; and Akashi, Goro, 4,666,773, Cl. 428-332.000

Kitatani, Katsuji; and Sano, Kenji, 4,663,260, Cl. 430-83.000.

Kito, Eiichi; and Matsumoto, Fumio, 4,653,900, Cl. 355-29.000.

Kiuchi, Seiji, 4,648,562, Cl. 242-56.00A.

Kiuchi, Takao, 4,716,474, Cl. 360-33.100.

Koda, Takao; Ichii, Hirokazu; and Komatuzaki, Hiroshi, 4,697,90 Cl. 354-288.000.

Kogane, Mikio, 4,634,268, Cl. 355-74.000.

Kogane, Mikio; Suzuki, Kenji; Kito, Eiichi; Kubota, Kazufumi; and Tokuda, Kanji, 4,639,118, Cl. 355-29.000.

Kogane, Mikio; and Shibazaki, Teruo, 4,652,117, Cl. 355-72.000

Kogane, Mikio; and Shibazaki, Teruo, 4,688,737, Cl. 242-67.10R.

Kogane, Mikio, 4,697,918, Cl. 355-27.000.

Koike, Kazuyuki; Tamagawa, Shigehisa; and Fuchizawa, Tetsuro, 4,686,546, Cl. 503-200.000.

Kokubo, Tadayoshi; Ikeda, Tadashi; Adachi, Keiichi; Okazaki, Masaki; and Yoshida, Tetsuo, 4,657,846, Cl. 430-434.000.

Komiyama, Choji; and Oishi, Kengo, 4,648,507, Cl. 206-232.000

Komiyama, Choji; and Oishi, Kengo, 4,676,453, Cl. 242-199.000

Komiyama, Choji; and Oishi, Kengo, 4,706,148, Cl. 360-132.000.

Konda, Ryuji, 4,682,203, Cl. 357-51.000.

Kondo, Ryuji; Murayama, Jin; Shizukuishi, Makoto; Tamayama, Hiroshi; and Yano, Takashi, 4,668,990, Cl. 358-213.230.

Kondoh, Masahiko; and Matsuoka, Hiroshi, 4,708,463, Cl. 355-45.000.

Konishi, Masahiro, 4,672,258, Cl. 313-15.000.

Konishi, Masahiro, 4,716,285, Cl. 250-205.000.

Koyanagi, Yoshihiro, 4,699,506, Cl. 355-71.000.

Kubodera, Seiiti; Hioki, Takanori; and Okazaki, Masaki, 4,637,975, Cl. 430-353.000.

Kubodera, Seiiti; Hioki, Takanori; and Okazaki, Masaki, 4,677,051, Cl. 430-550.000.

Kubodera, Seiiti; and Okazaki, Masaki, 4,690,883, Cl. 430-203.000.

Kubodera, Seiiti; Ukai, Toshinao; and Okada, Hisashi, 4,713,316, Cl. 430-351.000.

Kubota, Kazufumi, 4,638,170, Cl. 250-566.000.

Kubota, Satosi; Yoshida, Tetsuo; and Ohmatsu, Hideki, 4,643,965, Cl. 430-567.000.

Kunichika, Kenji; Kagawa, Yoshikatsu; Ohishi, Chikashi; Nakao, Sho; and Asao, Yasuzi, 4,673,627, Cl. 430-49.000.

Kuribayashi, Michio, 4,660,071, Cl. 358-11.000.

Kurokawa, Toshio, 4,678,409, Cl. 417-420.000.

Maehara, Yasunori; Fujiwara, Sigemi; Koyama, Katsuhide Tamura, Kaoru; Kawai, Yasuhiro; and Watanabe, Kazuya, 4,697,902, Cl. 354-281.000.

Masaki, Kouichi; and Kitamoto, Tatsuji, 4,713,261, Cl. 427-129.000

Matsuda, Shinichi; and Oosaka, Shigenori, 4,694,364, Cl. 360-99.000.

Matsuda, Terumi; and Torii, Shumpeita, 4,665,003, Cl. 430-139.000

Matsuda, Terumi; Aagano, Toshitaka; Miyahara, Junji; Nakajima, Nobuyoshi; and Saotome, Shigeru, 4,680,473, Cl. 250-484.100.

Matsuda, Terumi; and Tamura, Kaoru, 4,684,592, Cl. 430-6.000

Matsumoto, Fumio, 4,650,316, Cl. 355-55.000.

Matsumoto, Fumio, 4,659,213, Cl. 355-38.000.

Matsumoto, Fumio, 4,660,965, Cl. 355-41.000.

Matsumoto, Fumio, 4,666,306, Cl. 356-404.000.

Matsumoto, Fumio; Nakauchi, Kenji; and Iijima, Hideaki, 4,666,307, Cl. 356-404.000

Matsumoto, Fumio; Nakauchi, Kenji; and Shiraishi, Atsushi, 4,667,245, Cl. 358-214.000.

Matsumoto, Fumio, 4,692,797, Cl. 358-76.000.

Matsumoto, Fumio, 4,704,633, Cl. 358-213.270.

Matsumoto, Takashi, 4,672,495, Cl. 360-125.000.

Matsumoto, Takashi, 4,710,837, Cl. 360-110.000.

Mifune, Hiroyuki; Nakamura, Koki; and Ishiguro, Shoji, 4,634,660, Cl. 430-375.000.

Mifune, Hiroyuki; Shishido, Tadao; and Suzuki, Yoshiaki, 4,665,017, Cl. 430-569.000.

Mifune, Hiroyuki; Shishido, Tadao; and Suzuki, Yoshiaki, 4,681,838, Cl. 430-367.000.

Mifune, Hiroyuki; Shishido, Tadao; and Suzuki, Yoshiaki, 4,713,321, Cl. 430-569.000.

Mihayashi, Keiji; and Kobayashi, Hidetoshi, 4,656,123, Cl. 430-543.000.

Mihayashi, Keiji; and Takada, Shunji, 4,705,743, Cl. 430-385.000

Mitsui, Akio; and Ohta, Noboru, 4,681,837, Cl. 430-504.000.
Miyakawa, Tadashi; Monma, Yoshiyuki; Rikiishi, Yuji; and Seto, Hideo, 4,665,303, Cl. 219-216.000.
Miyakawa, Tadashi, 4,670,778, Cl. 358-75.000.
Miyakawa, Tadashi, 4,687,334, Cl. 356-404.000.
Miyakawa, Tadashi, 4,687,974, Cl. 315-375.000.
Miyake, Izumi; Kaneko, Kiyotaka; Nakadai, Katsuo; and Oda, Kazuya, 4,689,700, Cl. 360-77.000.
Miyake, Izumi, 4,698,702, Cl. 360-33.100.
Miyake, Izumi; Kaneko, Kiyotaka; and Oda, Kazuya, 4,701,813, Cl. 360-71.000.
Miyatsuka, Hajime; Kasuga, Akira; Matsufuji, Akihiro; and Kakuta, Takeshi, 4,687,705, Cl. 428-329.000.
Miyoshi, Takahito; and Fujiyama, Masaaki, 4,643,941, Cl. 428-323.000.
Miyoshi, Takahito; Kasuga, Akira; and Fujiyama, Masaaki, 4,652,958, Cl. 360-128.000.
Miyoshi, Takahito; Okutu, Toshimitu; Utumi, Masahiro; Fujiyama, Masaaki; and Aoki, Nobuo, 4,670,333, Cl. 428-323.000.
Miyoshi, Takahito; Fujiyama, Masaaki; Okutu, Toshimitu; Masuyama, Kenichi; and Nasu, Norio, 4,678,697, Cl. 428-141.000.
Miyoshi, Takahito; and Fujiyama, Masaaki, 4,687,703, Cl. 428-323.000.
Miyoshi, Takahito; Matsufuji, Akihiro; Yamamoto, Nobuyuki; Miyatsuka, Hajime; and Fujiyama, Masaaki, 4,687,704, Cl. 428-328.000.
Miyoshi, Takahito; Okutsu, Toshimitu; and Fujiyama, Masaaki, 4,687,706, Cl. 428-330.000.
Miyoshi, Takahito; and Fujiyama, Masaaki, 4,689,265, Cl. 428-323.000.
Miyoshi, Takahito; Fujiyama, Masaaki; Matsufuji, Akihiro; and Yamamoto, Nobuyuki, 4,690,863, Cl. 428-328.000.
Miyoshi, Takahito; Aoki, Nobuo; Yoneyama, Takashi; Kasuga, Akira; Okutu, Toshimitu; Fujiyama, Masaaki; and Okuzawa, Yasutoshi, 4,696,859, Cl. 428-323.000.
Miyoshi, Takahito; Kasuga, Akira; and Fujiyama, Masaaki, 4,701,364, Cl. 428-141.000.
Mizuta, Akira, 4,696,087, Cl. 29-434.000.
Mori, Keiji, 4,646,429, Cl. 29-603.000.
Mori, Nobufumi; Takahashi, Kenji; and Horikawa, Kazuo, 4,636,641, Cl. 250-327.200.
Mori, Nobufumi; Hosoi, Yuichi; Takahashi, Kenji; and Miyahara, Junji, 4,695,725, Cl. 250-327.200.
Mori, Nobufumi; Hosoi, Yuichi; Takahashi, Kenji; and Miyahara, Junji, 4,700,071, Cl. 250-327.200.
Mori, Sumio, 4,656,500, Cl. 358-13.000.
Morigaki, Masakazu; Ohki, Nobutaka; Takahashi, Osamu; and Naruse, Hideaki, 4,704,350, Cl. 430-546.000.
Morita, Kazuhiko; Komine, Shigeo; Kasuga, Akira; and Hibino, Noburo, 4,661,377, Cl. 427-130.000.
Moriwaki, Masayoshi, 4,695,912, Cl. 360-133.000.
Mukai, Kazuo; Honjoh, Akira; and Nakata, Shuji, 4,656,790, Cl. 51-141.000.
Mukunoki, Yasuo; Yokoyama, Shigeki; Kawasaki, Hiroshi; Nemori, Ryoichi; and Takeuchi, Tetsuo, 4,649,102, Cl. 430-527.000.
Murakami, Yukio, 4,661,138, Cl. 65-31.000.
Murayama, Jin; Kondo, Ryuji; Tamayama, Hiroshi; Yano, Takashi; and Shizukuishi, Makoto, 4,686,573, Cl. 358-213.220.
Nagano, Masahiko, 4,654,724, Cl. 358-310.000.
Nagano, Masahiko; and Sakaki, Naoaki, 4,668,997, Cl. 358-323.000.
Nagano, Masahiko; and Sakaki, Naoaki, 4,695,899, Cl. 358-310.000.
Nagano, Teruo; Toyama, Tadao; and Nagashima, Akira, 4,701,399, Cl. 430-179.000.
Nagao, Eijiro, 4,635,428, Cl. 53-542.000.
Nagashima, Yasuo; and Kasuga, Akira, 4,646,179, Cl. 360-99.000.
Nagashima, Yasuo, 4,661,871, Cl. 360-99.000.
Naito, Hideki, 4,693,954, Cl. 430-203.000.
Naito, Hideki, 4,710,450, Cl. 430-351.000.
Naito, Hiroichi, 4,645,719, Cl. 428-626.000.
Naito, Hiroichi, 4,658,148, Cl. 250-571.000.
Naito, Hiroichi, 4,677,513, Cl. 360-114.000.
Naito, Hiroichi, 4,680,657, Cl. 360-111.000.
Nakajima, Nobuyoshi; and Hishinuma, Kazuhiro, 4,710,875, Cl. 364-414.000.
Nakamura, Koki; Kojima, Tetsuro; Toyoda, Takashi; and Ikeda, Hideo, 4,675,276, Cl. 430-446.000.
Nakamura, Kotaro, 4,668,611, Cl. 430-507.000.
Nakamura, Kotaro; and Ishikawa, Takatoshi, 4,695,5[illegible]0, Cl. 430-381.000.
Nakamura, Takashi, 4,661,419, Cl. 428-691.000.
Nakamura, Takashi; and Takahashi, Kenji, 4,698,508, Cl. 250-484.100.
Nakamura, Taku; and Hirai, Hiroyuki, 4,649,104, Cl. 430-617.000.
Nakamura, Taku, 4,663,272, Cl. 430-542.000.
Nakanishi, Haruo; Sakaki, Hirokazu; Yamazaki, Toru; and Okishi, Yoshio, 4,678,551, Cl. 204-129.750.
Nakanishi, Haruo; Ohba, Hisao; and Sakaki, Hirokazu, 4,686,021, Cl. 204-129.750.
Nakauchi, Kenji, 4,686,351, Cl. 219-216.000.
Nakayama, Yoshiaki, 4,635,101, Cl. 358-21.00R.
Nakayama, Yoshiaki, 4,647,167, Cl. 353-110.000.
Naoi, Takashi; Kakimi, Fujio; and Mikami, Takeshi, 4,699,866, Cl. 430-138.000.
Naoi, Takashi; Fujioka, Takashi; Okamura, Hisashi; and Satake, Masaki, 4,710,456, Cl. 430-564.000.
Narang, Subhash C.; Vicari, Richard; and Gu, Juesheng, 4,661,611, Cl. 556-418.000.
Naritomi, Yasuhisa; Takahashi, Hiroshi; and Shiba, Keisuke, 4,690,886, Cl. 430-303.000.
Nishikawa, Yasuo; Okita, Tsutomu; Mukaida, Yoshito; Yanagihara, Kenji; Kimura, Mituo; and Niinomi, Masahiro, 4,693,927, Cl. 428-216.000.
Nishikawa, Yasuo; Okita, Tsutomu; Mukaida, Yoshito; Niinomi, Masahiro; Yanagihara, Kenji; and Kimura, Mituo, 4,711,809, Cl. 428-336.000.
Nishikawa, Yasuo; Okita, Tsutomu; Mukaida, Yoshito; Niinomi, Masahiro; Yanagihara, Kenji; and Kimura, Mituo, 4,713,287, Cl. 428-336.000.
Nishiyama, Shingo, 4,683,192, Cl. 430-567.000.
Nishizawa, Jun-ichi, 4,673,985, Cl. 358-213.120.
Noguchi, Masaru, 4,681,394, Cl. 350-6.600.
Noguchi, Masaru, 4,694,164, Cl. 250-234.000.
Noguchi, Masaru, 4,701,005, Cl. 350-3.700.
Nozawa, Yasushi; and Sasaki, Noboru, 4,663,271, Cl. 430-503.000.
Ochi, Shigeharu, 4,644,390, Cl. 358-50.000.
Ochiai, Takeji, 4,654,534, Cl. 250-484.100.
Ochiai, Takeji; Ohara, Shinichiro; and Yabe, Masao, 4,663,276, Cl. 430-272.000.
Ogawa, Hiroshi; Saito, Shinji; and Tamai, Yasuo, 4,634,632, Cl. 428-425.900.
Ogawa, Hiroshi; Saito, Shinji; Mizuno, Chiaki; and Tamai, Yasuo, 4,649,081, Cl. 428-447.000.
Ogawa, Hiroshi; and Tamai, Yasuo, 4,664,981, Cl. 428-425.900.
Ogawa, Hiroshi; Mizuno, Chiaki; Tamai, Yasuo; and Kamiyama, Koozi, 4,680,225, Cl. 428-323.000.
Ogawa, Hiroshi; Saito, Shinji; Mizuno, Chiaki; and Tamai, Yasuo, 4,687,710, Cl. 428-447.000.
Ogawa, Masashi, 4,657,656, Cl. 204-299.00R.
Ogawa, Tadashi; Arakawa, Jun; Nagaoka, Satoshi; Ohashi, Yuichi; and Tamoto, Koji, 4,652,515, Cl. 430-505.000.
Ogawa, Tadashi; and Okazaki, Masaki, 4,686,175, Cl. 430-505.000.
Ohara, Shinichiro; Takahashi, Yohnosuke; Naruo, Kyoichi; and Shinozaki, Fumiaki, 4,656,118, Cl. 430-272.000.
Ohara, Yuji, 4,697,269, Cl. 372-34.000.
Ohashi, Azusa; Shirai, Akira; Sakaki, Hirokazu; Tanabe, Zenichi; Tsuchida, Shin; and Hayashi, Yoshikatsu, 4,634,656, Cl. 430-278.000.
Ohgoda, Makoto; and Tamura, Kaoru, 4,640,507, Cl. 271-245.000.
Ohgoda, Makoto; Tamura, Kaoru; and Kawai, Yasuhiro, 4,694,163, Cl. 250-234.000.
Ohgoda, Makoto; and Tamura, Kaoru, 4,704,529, Cl. 250-327.200.
Ohgoda, Makoto; and Tamura, Kaoru, 4,712,009, Cl. 250-327.200.
Ohmura, Hiroshi; Tanaka, Tsutomu; and Nakada, Kimiaki, 4,655,571, Cl. 354-150.000.
Ohta, Takahiro; Inuiya, Masafumi; and Fujimura, Ikuo, 4,641,198, Cl. 358-285.000.
Ohta, Takahiro; Inuiya, Masafumi; Kobayashi, Kazuyoshi; and Murakami, Takashi, 4,642,700, Cl. 358-285.000.
Oishi, Kengo; and Moriwaki, Masayoshi, 4,635,877, Cl. 242-197.000.
Oishi, Kengo; and Suzuki, Osamu, 4,638,393, Cl. 360-132.000.
Oishi, Kengo; and Ono, Tuyoshi, 4,644,434, Cl. 360-133.000.
Oishi, Kengo; and Suzuki, Osamu, 4,669,018, Cl. 360-130.210.
Oishi, Kengo; Ono, Tuyoshi; and Ueno, Wataru, 4,672,499, Cl. 360-133.000.
Oishi, Kengo, 4,680,661, Cl. 360-133.000.
Oishi, Kengo; and Suzuki, Osamu, 4,682,260, Cl. 360-133.000.
Oishi, Kengo; and Ono, Tuyoshi, 4,688,127, Cl. 360-132.000.
Oishi, Kengo; and Suzuki, Osamu, 4,689,702, Cl. 360-132.000.
Oishi, Kengo; and Ono, Tuyoshi, 4,689,705, Cl. 360-133.000.
Oishi, Kengo, 4,698,715, Cl. 360-133.000.
Oishi, Kengo, 4,699,268, Cl. 206-313.000.
Oishi, Kengo; and Moriwaki, Masayoshi, 4,700,254, Cl. 360-132.000.
Oishi, Kengo; and Suzuki, Osamu, 4,701,822, Cl. 360-132.000.
Oishi, Kengo, 4,704,649, Cl. 360-133.000.
Okada, Kazuo; and Nakayama, Yoshiaki, 4,691,252, Cl. 360-75.000.
Okamura, Hisashi; and Kawamoto, Hiroshi, 4,668,616, Cl. 430-621.000.
Okamura, Hisashi; Kawamoto, Hiroshi; and Shiraishi, Hisashi, 4,673,632, Cl. 430-510.000.
Okamura, Hisashi; Kawamoto, Hiroshi; and Sakakibara, Yoshio, 4,708,927, Cl. 430-564.000.
Okano, Takeshi; Nakaoka, Sadaaki; and Ohashi, Saichiro, 4,640,597, Cl. 353-79.000.
Okita, Tsutomu; Naruo, Kyoichi; Tsuji, Nobuo; Nakagawa, Teruo; Murase, Kiyoshi; and Ogasawara, Takahisa, 4,657,817, Cl. 428-425.900.
Okita, Tsutomu; and Tada, Sugihiko, 4,664,734, Cl. 156-231.000.
Okita, Tsutomu; and Hashimoto, Hiroshi, 4,664,964, Cl. 428-143.000.
Okita, Tsutomu; Hashimoto, Hiroshi; and Mukaida, Yoshito, 4,664,965, Cl. 428-143.000.
Okita, Tsutomu; Aonuma, Masashi; and Hashimoto, Hiroshi, 4,671,998, Cl. 428-411.100.
Okita, Tsutomu; Tsuji, Nobuo; and Mukaida, Yoshito, 4,672,002, Cl. 428-425.900.
Okita, Tsutomu; Tsuji, Nobuo; Hashimoto, Hiroshi; and Mukaida, Yoshito, 4,690,870, Cl. 428-425.900.
Okita, Tsutomu; Tsuji, Nobuo; and Mukaida, Yoshito, 4,699,844, Cl. 428-425.900.

Okita, Tsutomu; Hashimoto, Hiroshi; and Aonuma, Masashi, 4,716,077, Cl. 428-328.000.
Okutsu, Eiichi; and Hirano, Mitsunori, 4,668,605, Cl. 430-267.000.
Okuzawa, Yasutoshi, 4,675,768, Cl. 360-133.000.
Ommori, Shozo; and Oishi, Kengo, 4,694,370, Cl. 360-133.000.
Ono, Minoru; and Makino, Teruyoshi, 4,637,703, Cl. 354-276.000.
Ono, Toshio; Tamai, Yasuo; Mizuno, Chiaki; Ogawa, Hiroshi; and Saito, Shinji, 4,710,421, Cl. 428-213.000.
Oono, Hiroshi; and Oosaka, Shigenori, 4,701,674, Cl. 315-276.000.
Oosaka, Shigenori; and Takatori, Naoki, 4,656,543, Cl. 360-97.000.
Oosaka, Shigenori; and Matsuda, Shinichi, 4,694,362, Cl. 360-97.000.
Oosaka, Shigenori, 4,703,373, Cl. 360-97.000.
Oosaka, Shigenori; and Negishi, Kenji, 4,713,706, Cl. 360-104.000.
Oshikoshi, Yuji; and Fukui, Takashi, 4,656,526, Cl. 358-294.000.
Oshikoshi, Yuji; Katoh, Masashi; and Kikuchi, Hisashi, 4,677,046, Cl. 430-202.000.
Oshikoshi, Yuji; Kato, Masashi; and Kikuchi, Hisashi, 4,695,143, Cl. 354-86.000.
Oshikoshi, Yuji, 4,712,909, Cl. 355-20.000.
Ryoke, Katsumi; Yamaguchi, Nobutaka; Takahashi, Masatoshi; Hanai, Kazuko; Kosha, Hideaki; and Tadokoro, Eiichi, 4,649,072, Cl. 428-212.000.
Ryoke, Katsumi; Yamaguchi, Nobutaka; Takahashi, Masatoshi; Hanai, Kazuko; Kosha, Hideaki; and Tadokoro, Eiichi, 4,686,139, Cl. 428-323.000.
Ryoke, Katsumi; Takahashi, Masatoshi; Yoneyama, Takashi; Nishikawa, Yasuo; and Tadokoro, Eiichi, 4,693,929, Cl. 428-323.000.
Ryoke, Katsumi; Yamaguchi, Nobutaka; Takahashi, Masatoshi; Hanai, Kazuko; Kosha, Hideaki; and Tadokoro, Eiichi, 4,696,858, Cl. 428-323.000.
Saito, Naoki; Aoki, Kozo; and Yokota, Yukio, 4,690,889, Cl. 430-552.000.
Saito, Yoshio; and Seshimoto, Osamu, 4,655,899, Cl. 204-412.000.
Sakaguchi, Yukihiko, 4,639,414, Cl. 430-550.000.
Sano, Shojiro; and Saeki, Keiso, 4,689,644, Cl. 503-209.000.
Sasaki, Noboru; and Takahashi, Koji, 4,705,744, Cl. 430-505.000.
Sasaki, Noboru, 4,707,436, Cl. 430-504.000.
Sato, Hideaki; and Yagihara, Morio, 4,680,257, Cl. 430-614.000.
Sato, Kazo; Yabuki, Yoshiharu; Hirai, Hiroyuki; and Kawata, Ken, 4,659,653, Cl. 430-559.000.
Sato, Kozo; Yabuki, Yoshiharu; Hirai, Hiroyuki; and Kawata, Ken, 4,650,749, Cl. 430-617.000.
Sato, Kozo; Yabuki, Yoshiharu; Hirai, Hiroyuki; and Kawata, Ken, 4,657,848, Cl. 430-617.000.
Sato, Kozo; Kitaguchi, Hiroshi; and Hirai, Hiroyuki, 4,675,277, Cl. 430-448.000.
Sato, Kozo; Kitaguchi, Hiroshi; Takeuchi, Masashi; Tsukase, Masaaki; and Kato, Masatoshi, 4,696,887, Cl. 430-203.000.
Sato, Tadahisa; Kawagishi, Toshio; and Furutachi, Nobuo, 4,705,863, Cl. 548-262.000.
Sato, Yoshimitsu; Ohtsuka, Shuichi; Kimura, Akinori; Yoda, Akira; Kato, Keishi, and Takahashi, Isoji, 4,697,912, Cl. 355-3.00R.
Satomura, Masato; Igarashi, Akira; and Iwakura, Ken, 4,644,377, Cl. 346-221.000.
Satomura, Masato; Iwakura, Ken; and Kawakami, Hiroshi, 4,701,565, Cl. 568-644.000.
Satomura, Masato, 4,707,553, Cl. 546-273.000.
Satoyoshi, Yasuhiko; and Wada, Koji, 4,685,638, Cl. 242-199.000.
Sawada, Satoru; Naito, Hideki; and Kitaguchi, Hiroshi, 4,643,964, Cl. 430-523.000.
Seki, Takatoshi; Akimoto, Taizo; Ookawa, Norio; and Torisawa, Nobuyuki, 4,664,506, Cl. 355-20.000.
Sekine, Takasi; Yazawa, Kenichiro; and Kitajima, Masao, 4,647,431, Cl. 422-63.000.
Seshimoto, Osamu; Nirasawa, Mituharu; Terashima, Masaaki; and Saito, Yoshio, 4,684,445, Cl. 204-1.00T.
Seshimoto, Osamu; and Nirasawa, Mitsuharu, 4,707,243, Cl. 204-418.000.
Seto, Yasuhiro, 4,645,351, Cl. 356-443.000.
Shibahara, Yoshihiko; and Ikoma, Hideto, 4,680,253, Cl. 430-504.000.
Shibata, Norio; Takeda, Hideo; Sato, Tsunehiko; and Tanaka, Yasunori, 4,681,062, Cl. 118-410.000.
Shibata, Yukio, 4,660,112, Cl. 360-106.000.
Shigaki, Takao, 4,693,596, Cl. 355-77.000.
Shimada, Takeo; Kimura, Tsutomu; and Hayashi, Ryoichi, 4,645,334, Cl. 355-40.000.
Shimizu, Shigehisa; Suzuki, Chiaki; Harada, Kazumasa; and Maeda, Tomohisa, 4,656,737, Cl. 29-806.000.
Shimizu, Shigehisa; and Otokozawa, Takao, 4,657,198, Cl. 242-57.000.
Shimizu, Shigehisa; and Otokozawa, Takao, 4,709,157, Cl. 250-572.000.
Shiozawa, Etuo; Harada, Shigeo; Ohtsuka, Shuichi; and Ohnishi, Masahiro, 4,678,312, Cl. 355-3.00R.
Shirahata, Ryuji; and Arai, Yoshihiro, 4,652,460, Cl. 427-39.000.
Shirahata, Ryuji; Arai, Yoshihiro; and Yasunaga, Tadashi, 4,673,610, Cl. 428-213.000.
Shirahata, Ryuji; and Tamai, Yasuo, 4,690,857, Cl. 428-216.000.
Shirahata, Ryuji; Kitamoto, Tatsuji; and Arai, Yoshihiro, 4,700,198, Cl. 346-1.100.
Shiraishi, Atsushi, 4,676,710, Cl. 414-225.000.
Shiraishi, Hisashi; Kimura, Tsutomu; and Hishinuma, Kazuhiro, 4,665,312, Cl. 250-303.000.
Shuto, Sadanobu; Ukai, Toshinao; and Aida, Shunichi, 4,675,279, Cl. 430-567.000.
Sueyoshi, Toru, 4,654,718, Cl. 358-257.000.
Sugihara, Mitsuru; and Sugimoto, Naohiko, 4,695,354, Cl 204-180.100.
Sugimoto, Naohiko; Kojima, Tetsuro; and Ishimaru, Shingo, 4,645,735, Cl. 430-512.000.
Sugimoto, Naohiko; and Ishigaki, Kunio, 4,675,278, Cl 430-523.000.
Sugimoto, Tadao; and Ikeda, Hideo, 4,656,120, Cl. 430-434.000.
Sugimoto, Tadao; and Yamada, Sumito, 4,665,012, Cl. 430-502.000.
Sugimoto, Tadao; and Hayakawa, Toshiaki, 4,713,318, Cl 430-567.000.
Sugiura, Yutaka; and Kobayashi, Kazuyoshi, 4,647,192, Cl 355-64.000.
Suzuki, Kenji, 4,686,571, Cl. 358-213.000.
Suzuki, Kenji, 4,692,794, Cl. 358-44.000.
Suzuki, Kenji, 4,709,259, Cl. 358-48.000.
Suzuki, Kenji; Terashita, Takaaki; and Murayama, Jin, 4,710,803, Cl. 358-41.000.
Suzuki, Masaki, deceased; and Akashi, Goro, 4,636,898, Cl 360-122.000.
Tabei, Masatoshi, 4,644,404, Cl. 358-213.000.
Tabei, Masatoshi; and Kawajiri, Kazuhiro, 4,701,798, Cl 358-213.260.
Tachikawa, Hiromichi; Yokoya, Hiroaki; Watarai, Syu; and Kitatani, Katuzi, 4,681,832, Cl. 430-115.000.
Tago, Tomohisa; Hamada, Shinji; Ichikawa, Shinichi; and Tanase, Yoshimoto, 4,659,927, Cl. 250-318.000.
Takada, Shunji; Ohshima, Naoto; and Ishimaru, Shingo, 4,668,614, Cl. 430-567.000.
Takahashi, Hiroshi; Narutomi, Yasuhisa; Aotani, Yoshimasa; and Shiba, Keisuke, 4,642,283, Cl. 430-303.000.
Takahashi, Kenji; Umemoto, Chiyuki; and Kato, Hisatoyo, 4,710,626, Cl. 250-327.200.
Takahashi, Osamu; and Sakai, Minoru, 4,649,095, Cl. 430-216.000.
Takahashi, Tomoyuki; Katoh, Masashi; and Kikuchi, Hisashi, 4,647,168, Cl. 354-86.000.
Takahashi, Toshiro; and Nakamura, Koki, 4,636,456, Cl 430-266.000.
Takahashi, Toshiro; and Hirano, Shigeo, 4,699,873, Cl. 430-446.000.
Takashima, Masanobu; Satomura, Masato; Iwakura, Ken; and Igarashi, Akira, 4,707,464, Cl. 503-216.000.
Takayanagi, Takashi; Asao, Yasuzi; Fuchizawa, Tetsuro; Jitsumatsu, Tetusji; Murase, Kiyoshi; and Kato, Hiroyuki, 4,654,261, Cl. 428-336.000.
Takeda, Keiji, 4,649,098, Cl. 430-270.000.
Takeuchi, Makoto; Kitazumi, Etsuo; Sakaki, Hirokazu; and Okishi, Yoshio, 4,714,528, Cl. 204-33.000.
Takeuchi, Motoki; and Nakamura, Junichi, 4,699,835, Cl 428-65.000.
Takizawa, Kazushige; Sakaki, Hirokazu; Abe, Yuji; Matsuo, Mamoru; Tajiri, Akira; and Tsuchida, Shin, 4,686,083, Cl 420-548.000.
Tamada, Kazukiyo, 4,709,282, Cl. 360-97.000.
Tamagawa, Shigehisa; and Fuchizawa, Tetsuro, 4,659,430, Cl 162-135.000.
Tamagawa, Shigehisa; Fuchizawa, Tetsuro; and Abe, Hisamasa, 4,678,742, Cl. 430-523.000.
Tamagawa, Shigehisa; and Fuchizawa, Tetsuro, 4,682,191, Cl 503-200.000.
Tamagawa, Shigehisa; and Fuchizawa, Tetsuro, 4,705,746, Cl 430-538.000.
Tamura, Kaoru; Yasuhiro, Kawai; and Utsumi, Isao, 4,678,180, Cl 271-296.000.
Tamura, Kaoru; and Torii, Shumpeita, 4,681,227, Cl. 206-455.000.
Tamura, Kaoru; Takano, Masao; and Kimura, Tsutomu, 4,687,932, Cl. 250-327.200.
Tamura, Kaoru; and Kawai, Yasuhiro, 4,704,530, Cl. 250-327.200.
Tanaka, Hirosi; and Saito, Tokukazu, 4,638,162, Cl. 250-327.200.
Tanaka, Hirosi; and Nakajima, Nobuyoshi, 4,682,028, Cl 250-327.200.
Tanaka, Keiji; Honryo, Hatsuo; and Koga, Takeri, 4,637,567, Cl 242-56.00R.
Tani, Yoshio; Yabe, Masao; and Naruo, Kyoichi, 4,686,543, Cl 346-137.000.
Terashita, Takaaki, 4,641,959, Cl. 355-77.000.
Terashita, Takaaki, 4,646,252, Cl. 364-525.000.
Terashita, Takaaki; and Shigaki, Takao, 4,668,082, Cl. 355-77.000.
Terashita, Takaaki, 4,707,118, Cl. 355-38.000.
Terashita, Takaaki, 4,707,119, Cl. 355-38.000.
Terashita, Takaaki, 4,710,019, Cl. 355-38.000.
Tezuka, Sigeru; Yamamoto, Shoichi; and Yamamoto, Masayoshi, 4,715,942, Cl. 204-299.00R.
Tokunaga, Fumihiro; Asai, Takamitsu; and Fujiyama, Masaaki, 4,656,088, Cl. 428-323.000.
Tokunaga, Fumihiro; Asai, Takamitsu; and Fujiyama, Masaaki, 4,678,706, Cl. 428-323.000.
Torii, Hisatsugu, 4,712,911, Cl. 355-74.000.
Toya, Ichizo; Mihara, Yuji; and Takei, Haruo, 4,634,653, Cl 430-217.000.
Toyama, Tadao; Kobayashi, Kesanao; Koike, Mitsuru; and Tamoto, Koji, 4,687,727, Cl. 430-175.000.
Tsukase, Masaaki; Sato, Kozo; Kitaguchi, Hiroshi; Takeuchi, Masashi; and Kato, Masatoshi, 4,695,525, Cl. 430-151.000.
Tsuruta, Masao, 4,650,136, Cl. 242-198.000.

Ueda, Masaki, 4,672,497, Cl. 360-132.000.
Ueda, Masaki, 4,680,660, Cl. 360-132.000.
Ueda, Shinji; and Nakajima, Junya, 4,675,274, Cl. 430-407.000.
Uejima, Atsushi, 4,682,315, Cl. 369-45.000.
Umemoto, Chiyuki; and Arakawa, Satoshi, 4,689,278, Cl. 428-690.000.
Umemoto, Makoto; Nakamura, Kotaro; and Furutachi, Nobuo, 4,696,893, Cl. 430-543.000.
Urabe, Hitoshi, 4,708,448, Cl. 354-75.000.
Usami, Toshimasa; and Tanaka, Toshiharu, 4,644,376, Cl. 346-215.000.
Usami, Toshimasa; Tanaka, Toshiharu; and Shinozaki, Fumiaki, 4,650,740, Cl. 430-176.000.
Usami, Toshimasa; Tanaka, Toshiharu; and Yoshida, Shohei, 4,682,194, Cl. 503-215.000.
Ushiro, Seimei, 4,710,011, Cl. 354-403.000.
Utsugi, Mikio, 4,684,229, Cl. 354-106.000.
Utsugi, Mikio, 4,695,905, Cl. 360-33.100.
Utsumi, Isao, 4,701,617, Cl. 250-327.200.
Watanabe, Hideo, 4,689,659, Cl. 357-81.000.
Watanabe, Hideo; and Nakajima, Nobuyoshi, 4,695,726, Cl. 250-327.200.
Watanabe, Izumi; and Yamana, Keiichi, 4,671,648, Cl. 355-40.000.
Watanabe, Izumi; and Tojo, Yu, 4,693,589, Cl. 355-5.000.
Watanabe, Yoshiyuki; and Shibata, Yukio, 4,686,593, Cl. 360-97.000.
Yabuki, Yoshiharu; Sato, Kozo; Kawata, Ken; and Hirai, Hiroyuki, 4,639,418, Cl. 430-617.000.
Yabuki, Yoshiharu; Sato, Kozo; Kawata, Ken; and Hirai, Hiroyuki, 4,640,891, Cl. 430-551.000.
Yabuki, Yoshiharu; Sato, Kozo; Kawata, Ken; and Hirai, Hiroyuki, 4,649,103, Cl. 430-570.000.
Yabuki, Yoshiharu; Sato, Kozo; Kawata, Ken; and Hirai, Hiroyuki, 4,716,100, Cl. 430-570.000.
Yagihara, Morio; and Ikegawa, Akihiko, 4,659,651, Cl. 430-542.000.
Yagihara, Morio; Hirano, Tsumoru; Yamamoto, Tatsuya; and Sakanoue, Kei, 4,668,613, Cl. 430-548.000.
Yagihara, Morio; and Ikegawa, Akihiko, 4,690,885, Cl. 430-212.000.
Yamada, Junichi, 4,706,129, Cl. 358-293.000.
Yamada, Kohzaburoh; Ichijima, Seiji; and Usui, Hideo, 4,678,743, Cl. 430-551.000.
Yamada, Minoru; and Toyoda, Takashi, 4,672,025, Cl. 430-420.000.
Yamada, Sadao; Takayama, Takeshi; Seshimoto, Osamu; and Yamaguchi, Akira, 4,683,048, Cl. 204-416.000.
Yamada, Sumito; Nakamura, Taku; Suga, Shuzo; and Kawamoto, Hiroshi, 4,647,528, Cl. 430-567.000.
Yamada, Sumito; and Okazaki, Masaki, 4,678,741, Cl. 430-445.000.
Yamada, Sumito; Mifune, Hiroyuki; and Urabe, Shigeharu, 4,678,745, Cl. 430-569.000.
Yamada, Takuzi, 4,664,328, Cl. 242-71.800.
Yamada, Yasuyuki; and Mukaida, Yoshito, 4,664,979, Cl. 428-413.000.
Yamaguchi, Nobutaka; Iida, Shinobu; Nasu, Norio; Ryoke, Katsumi; Okutu, Toshimitu; and Masuyama, Kenichi, 4,647,501, Cl. 428-323.000.
Yamaguchi, Nobutaka; Fujiyama, Masaaki; Kato, Kazuo; and Kashiwagi, Akira, 4,647,503, Cl. 428-323.000.
Yamaguchi, Nobutaka; Miyoshi, Takahito; Okutu, Toshimitu; Hibino, Noburo; Tadokoro, Eiichi; and Fujiyama, Masaaki, 4,650,720, Cl. 428-480.000.
Yamaguchi, Nobutaka; Iida, Shinobu; Utsumi, Masahiro; Nasu, Norio; and Tadokoro, Eiichi, 4,663,217, Cl. 428-212.000.
Yamamoto, Nobuyuki, 4,704,179, Cl. 156-292.000.
Yamamoto, Nobuyuki, 4,704,650, Cl. 360-135.000.
Yamamoto, Soichiro; and Shimada, Takeo, 4,639,409, Cl. 430-505.000.
Yamamoto, Takaaki; and Tamura, Kaoru, 4,703,537, Cl. 15-102.000.
Yamamoto, Takashi, 4,707,120, Cl. 355-38.000.
Yamazaki, Seiichi; Uchiyama, Kaoru; and Tahara, Toshiro, 4,662,554, Cl. 226-170.000.
Yamazaki, Seiichi; Uchiyama, Kaoru; and Tahara, Toshiro, 4,693,016, Cl. 34-52.000.
Yanagida, Seiichi; Kiuchi, Takao; and Kasami, Hiroyuki, 4,654,729, Cl. 360-93.000.
Yanagihara, Kenji; Kimura, Mituo; and Niinomi, Masahiro, 4,636,435, Cl. 428-336.000.
Yanagihara, Kenji; Kimura, Mituo; Niinomi, Masahiro; Nishikawa, Yasuo; and Mukaida, Yoshito, 4,693,799, Cl. 204-165.000.
Yanai, Akio; and Shirahata, Ryuji, 4,661,418, Cl. 428-610.000.
Yasuda, Yukio; and Masuda, Nobuhito, 4,657,739, Cl. 422-56.000.
Yasunaga, Tadashi; Yanai, Akio; and Shirahata, Ryuji, 4,702,938, Cl. 427-132.000.
Yasunaga, Tadashi; and Shirahata, Ryuji, 4,713,262, Cl. 427-130.000.
Yoda, Akira; Sato, Masamichi; and Ohtsuka, Shuichi, 4,656,356, Cl. 250-326.000.
Yokoya, Hiroaki; Sano, Kenji; and Sato, Hideo, 4,708,922, Cl. 430-73.000.
Yokoyama, Shigeki; Inayama, Takayuki; Sugimoto, Naohiko; and Naoi, Takashi, 4,677,050, Cl. 430-536.000.
Yoshida, Satoshi; Ueoka, Joe; and Katou, Yoshiaki, 4,662,985, Cl. 156-643.000.
Yoshida, Tetsuo; and Kokubo, Tadayoshi, 4,639,416, Cl. 430-567.000.
Yoshikawa, Sumio; and Shiraishi, Atsushi, 4,660,964, Cl. 355-28.000.
Yoshimura, Kazuyuki; and Sakakibara, Yoshio, 4,701,388, Cl. 430-209.000.

Fuji Photo Optical Co., Ltd.: *See—*
Ando, Kunio, 4,685,451, Cl. 128-6.000.
Arakawa, Satoshi, 4,646,721, Cl. 128-6.000.
Arakawa, Satoshi, 4,646,723, Cl. 128-6.000.
Arakawa, Satoshi, 4,651,202, Cl. 358-98.000.
Arakawa, Satoshi; Toyota, Makoto; and Takeshita, Fumitaka, 4,667,230, Cl. 358-98.000.
Arakawa, Satoshi, 4,682,219, Cl. 358-98.000.
Cooper, David H.; Toyota, Makoto; and Hunyady, Janos L., 4,667,229, Cl. 358-98.000.
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Harada, Yuho; Maruyama, Tsutomu; Kumakura, Yoshiyuki; and Kuwayama, Shigeo, 4,710,216, Cl. 65-4.100.
Kaneko, Kouji; Horio, Motohiko; Kobayashi, Naoki; and Okada, Fujio, 4,669,841, Cl. 352-216.000.
Kondo, Mitsuo, 4,694,821, Cl. 128-4.000.
Matsuda, Shinichi; and Seki, Kazuhisa, 4,642,717, Cl. 360-105.000.
Matumura, Takeshi; and Himeno, Yoshiaki, 4,634,238, Cl. 350-432.000.
Sato, Kiyoshi; and Matsui, Nobuo, 4,682,214, Cl. 358-55.000.
Tanaka, Kazuto; Kakizawa, Haruo; and Nagata, Kouichi, 4,639,099, Cl. 350-538.000.
Toyota, Makoto; Takeshita, Fumitaka; and Arakawa, Satoshi, 4,697,210, Cl. 358-98.000.
Umezu, Takao; Ishiguro, Minoru; and Nishizawa, Tetsuo, 4,641,935, Cl. 354-173.110.

Fuji Seal Industry Co., Ltd.: *See—*
Fujio, Masaaki; and Yamamoto, Tetsuhiro, 4,694,633, Cl. 53-49.000.

Fuji Seiki Machine Works, Ltd.: *See—*
Matsumoto, Katsuaki; and Taguchi, Takao, 4,666,465, Cl. 51-293.000.
Suzuki, Akira; Suzuki, Hidemasa; and Yamaguchi, Tomio, 4,674,238, Cl. 51-418.000.
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Suzuki, Hidemasa; Watanabe, Mitsuru; and Ohtake, Matsuo, 4,669,230, Cl. 51-415.000.

Fuji Seiko Limited: *See—*
Kondo, Kunio; Haga, Katutoshi; Haga, Minoru; Kato, Yasuo; and Kaneko, Shinobu, 4,642,005, Cl. 409-232.000.
Kondo, Kunio; Haga, Katutoshi; Kurumiya, Tadashi; Haga, Minoru; Kato, Yasuo; and Kaneko, Shinobu, 4,643,623, Cl. 409-232.000.

Fuji Standard Research, Inc.: *See—*
Arai, Tomio; Nakagawa, Takao; Mogi, Fumio; and Oshiguri, Noriaki, 4,663,021, Cl. 208-67.000.
Gomi, Shimpei; Ueda, Takuya; Nakagawa, Takao; and Tachibana, Masaharu, 4,663,022, Cl. 208-67.000.

Fuji Standard Research Kabushiki Kaisha: *See—*
Miyauchi, Terukatsu; Ikeda, Yoneichi; Tashiro, Masaharu; and Kubota, Osamu, 4,668,378, Cl. 208-127.000.
Miyauchi, Terukatsu; Ikeda, Yoneichi; and Kikuchi, Tatsuji, 4,675,098, Cl. 208-127.000.

Fuji Systems Corporation: *See—*
Onohara, Masayuki; Kawai, Kenji; Shibata, Masaru; Igarashi, Akira; and Kawaguchi, Nobuhisa, 4,686,124, Cl. 428-35.000.

Fuji Tec Co., Ltd.: *See—*
Hashimoto, Kenzaburo, 4,708,557, Cl. 411-387.000.

Fuji Techno Kogyo Kabushiki Kaisha: *See—*
Yoshimura, Hiroichi, 4,687,426, Cl. 417-539.000.

Fuji Tekko Co., Ltd.: *See—*
Enomoto, Hirokazu, 4,658,937, Cl. 188-71.400.

Fuji Xerox Co., Ltd.: *See—*
Fujimura, Yoshihiko; Saitoh, Koichi; and Suemitsu, Yuji, 4,686,933, Cl. 118-623.000.
Horie, Kiyoshi; Noami, Tsuneo; Masuda, Koji; Saitoh, Koichi; Maruyama, Kazuo; Fujimura, Yoshihiko; Suemitsu, Yuji; and Yamamoto, Toshiro, 4,653,896, Cl. 355-3.0DD.
Ichikawa, Hideo; Nakaguchi, Mitsuharu; and Yumoto, Hidekazu, 4,669,854, Cl. 355-3.00R.
Inoue, Yoshio; and Aoki, Matsuyuki, 4,684,236, Cl. 355-3.0DD.
Inui, Toshiharu; and Moriguchi, Haruhiko, 4,679,055, Cl. 46-76.0PH.
Inui, Toshiharu; Moriguchi, Haruhiko; Hisatake, Masayuki; and Ohmori, Takashi, 4,685,069, Cl. 364-506.000.
Ishii, Chiharu, 4,639,894, Cl. 365-189.000.
Ishikawa, Noriyoshi; Takahashi, Haruhiko; Funato, Hitoshi; Leng, Svay; Saitoh, Hiroyuki; Ohmori, Takashi; Kurata, Masami; and Katou, Yasuo, 4,661,703, Cl. 250-317.100.
Ishitate, Yoshiyuki, 4,682,244, Cl. 358-287.000.
Kokubun, Shin-ichi; and Sato, Hiroshi, 4,662,522, Cl. 209-656.000.
Kume, Hiroshi, 4,706,246, Cl. 370-85.000.
Leng, Svay; Saitoh, Hiroyuki; Inui, Toshiharu; Koizumi, Norihiko; Moriguchi, Haruhiko; Omori, Takashi; Kurata, Masami; and Katoh, Yasuo, 4,638,372, Cl. 358-296.000.
Mita, Tsunemasa; Katoh, Ryoki; Sekimoto, Soichi; Shiratsuki, Yoshiyuki; and Arisawa, Hiroshi, 4,697,204, Cl. 357-74.000.
Miyao, Fumio, 4,710,918, Cl. 370-85.000.
Moriguchi, Haruhiko; Inui, Toshiharu; Ohmori, Takashi; and Kikuchi, Yoshiki, 4,651,167, Cl. 346-76.0PH.
Moriguchi, Haruhiko; Inui, Toshiharu; and Ishida, Yoshihiro, 4,701,811, Cl. 358-298.000.

Morino, Tetsuro; and Yamashita, Shigeki, 4,694,303, Cl. 346-1.100.

Nakayama, Toshihiko; Moriguchi, Fujio; Murayama, Tomio; and Takeo, Yasuhiro, 4,638,329, Cl. 346-76.0PH.

Ogita, Akira; and Tanaka, Masaaki, 4,705,386, Cl. 355-4.000.

Saito, Koichi; Fujimura, Yoshihiko; and Inoue, Nanao, 4,710,780, Cl. 346-1.100.

Saitoh, Hiroyuki; Kurata, Masami; and Omori, Takashi, 4,636,081, Cl. 356-402.000.

Saitoh, Hiroyuki; and Kurata, Masami, 4,652,913, Cl. 358-75.000.

Sato, Shigeru; and Ozawa, Takashi, 4,680,477, Cl. 250-578.000.

Sato, Takane, 4,661,949, Cl. 370-62.000.

Shimizu, Norimitsu, 4,687,971, Cl. 315-244.000.

Shirai, Masaharu, 4,637,709, Cl. 355-3.00R.

Shoji, Yoshio; Terao, Kazuo; Noda, Akihiko; Yamamuro, Takashi; and Sunaga, Takayuki, 4,662,311, Cl. 118-651.000.

Suganuma, Saburo, 4,677,551, Cl. 364-401.000.

Takahashi, Haruhiko; Inui, Toshiharu; Saitoh, Hiroyuki; Ishikawa, Noriyoshi; Funato, Hitoshi; Ohmori, Takashi; Kurata, Masami; and Katou, Yasuo, 4,709,149, Cl. 250-317.100.

Tan, Yoichi, 4,656,628, Cl. 370-85.000.

Tanaka, Hiroyuki; Kin, Seki; and Pu, Lyong S., 4,700,001, Cl. 564-307.000.

Tanaka, Hiroyuki; Kin, Seki; and Pu, Lyong S., 4,707,427, Cl. 430-59.000.

Tei, Sadahiro, 4,660,277, Cl. 29-572.000.

Terao, Kazuo; Kubo, Tsutomu; Hyakutake, Nobuo; Tachibana, Hidekiyo; Hama, Jun-ichi; Teshigawara, Touru; and Kajimoto, Masashi, 4,707,428, Cl. 430-102.000.

Yoshino, Masaki; Oka, Kozo; and Koide, Fuminori, 4,634,257, Cl. 355-3.0CH.

Fujibayashi, Kazuo; Tsunekawa, Tokuichi; and Ohmura, Hiroshi, to Canon Kabushiki Kaisha. Photographic apparatus. 4,697,905, 10-6-87, Cl. 354-406.000.

Fujibayashi, Kazuo: *See*—

Arakawa, Kazuhiko; Tokura, Go; Fujibayashi, Kazuo; Kiuchi, Masayoshi; and Harada, Yoshihito, 4,692,008, Cl. 354-217.000.

Arakawa, Kazuhiko; Harada, Yoshihito; Kiuchi, Masayoshi; Tokura, Go; and Fujibayashi, Kazuo, 4,707,097, Cl. 354-217.000.

Takahashi, Sadatoshi; Asano, Toshiaki; Tsuji, Sadahiko; Fujibayashi, Kazuo; and Kato, Masatake, 4,653,874, Cl. 350-427.000.

Toyama, Masamichi; Kaneda, Naoya; and Fujibayashi, Kazuo, 4,682,886, Cl. 356-1.000.

Tsuji, Sadahiko; Takahashi, Sadatoshi; and Fujibayashi, Kazuo, 4,696,553, Cl. 350-427.000.

Yamada, Yasuyuki; Fujibayashi, Kazuo; Sato, Yasuhisa; and Yokota, Hideo, 4,715,692, Cl. 350-422.000.

Fujibayashi, Kenji, to Olympus Optical Co., Ltd. Dual audio track recording system in which one track also contains a control signal. 4,692,818, 9-8-87, Cl. 360-22.000.

Fujibayashi, Kentaro: *See*—

Kawamura, Hideaki; Miyata, Mitsuto; and Fujibayashi, Kentaro, 4,652,804, Cl. 318-590.000.

Fujibyora Co., Ltd.: *See*—

Tajima, Shoichi; and Fujiwara, Kouji, 4,652,194, Cl. 411-417.000.

Fujic Fishing Tackle Mfg. Co., Ltd.: *See*—

Fujimoto, Ichio, 4,667,435, Cl. 43-43.160.

Fujicar Manu. Co. Ltd.: *See*—

Kutsumura, Shoji; and Isonaga, Touichi, 4,681,662, Cl. 202-270.000.

Kutsumura, Shoji; and Isonaga, Touichi, 4,683,031, Cl. 202-227.000.

Fujie, Akira; and Yamagishi, Tsukasa, to Asahi Kasei Kogyo Kabushiki Kaisha. Preparation of foam particles of ethylenic resin and foam moldings prepared therefrom. 4,644,013, 2-17-87, Cl. 521-60.000.

Fujie, Daijiro, to Nippon Kogaku K. K. Retrofocus type wide angle lens. 4,690,517, 9-1-87, Cl. 350-458.000.

Fujie, Hiroshi: *See*—

Matsui, Hideo; Fujie, Hiroshi; and Noma, Takashi, 4,716,215, Cl. 528-348.000.

Fujie, Masakatsu: *See*—

Hosoda, Yuji; Honma, Kazuo; Fujie, Masakatsu; Iwamoto, Taro; Kamejima, Kohji; and Nakano, Yoshiyuki, 4,709,342, Cl. 364-558.000.

Hosoda, Yuji; Honma, Kazuo; and Fujie, Masakatsu, 4,715,637, Cl. 294-86.400.

Fujieda, Yasuhiko: *See*—

Amano, Itaru; Fujieda, Yasuhiko; Ichikawa, Katsumi; Kanzawa, Masahide; Yanagihara, Toshio; and Misumi, Shikao, 4,669,964, Cl. 425-34.00R.

Amano, Itaru; Fujieda, Yasuhiko; Ichikawa, Katsumi; Kanzawa, Masahide; Yanagihara, Toshio; and Misumi, Shikao, 4,695,234, Cl. 425-23.000.

Nakagawa, Kazuhiko; Amano, Itaru; and Fujieda, Yasuhiko, 4,670,209, Cl. 264-315.000.

Fujigaya, Kazuyuki: *See*—

Shimonosono, Hitoshi; Ogawa, Naoki; Fujigaya, Kazuyuki; and Minezaki, Yutaka, 4,669,427, Cl. 123-41.270.

Fujihara, Masaaki; Fujii, Ikunori; and Fujita, Shuji, to Tokyo Juki Industrial Co., Ltd. Sewing machine presser foot lifting apparatus. 4,709,644, 12-1-87, Cl. 112-237.000.

Fujihara, Shigeru: *See*—

Mure, Hiroshi; Mizoguchi, Ryohei; Yokoi, Shinichi; Fujihara, Shigeru; and Ichikawa, Kaoru, 4,686,687, Cl. 373-22.000.

Fujihara, Takeo; Yamatani, Akira; Yamamoto, Masanori; and Kunimoto, Yuji, to House Food Industrial Co., Ltd. Erectable container. 4,705,209, 11-10-87, Cl. 229-109.000.

Fujihara, Toshihisa: *See*—

Ando, Takehiro; Kimura, Hideo; Oda, Noriyuki; Asai, Takeji; Mochizuki, Ken; Fujihara, Toshihisa; and Maeda, Katsuji, 4,642,127, Cl. 55-20.000.

Fujihisa, Hiroaki; Fujii, Hiroshi; Ohishi, Hirotoshi; and Kobayashi, Yoshiaki, to Mitsubishi Denki Kabushiki Kaisha. Circuit interrupter. 4,641,001, 2-3-87, Cl. 200-153.00G.

Fujii, Akihiko; and Tsuka, Masahiro, to Osaka Gas Company Limited. Method and device for detecting insulation damage to a buried object. 4,689,552, 8-25-87, Cl. 324-546.000.

Fujii, Akio: *See*—

Umezawa, Hamao; Takeuchi, Tomio; Kondo, Shinichi; Iinuma, Hironobu; Ikeda, Daishiro; Nakamura, Teruya; and Fujii, Akio, 4,658,058, Cl. 564-159.000.

Fujii, Akira: *See*—

Taniguchi, Nobuyuki; Niwa, Masatake; Fujii, Akira; Hoda, Takeo; Nakai, Masaaki; Sekida, Minoru; and Sahara, Masayoshi, 4,712,904, Cl. 354-475.000.

Fujii, Atsushi; Kaneda, Kazuhisa; and Tokiya, Yoshihiro, to Idemitsu Petrochemical Co., Ltd. Method for the preparation of a crystalline thermoplastic resin sheet. 4,680,157, 7-14-87, Cl. 264-180.000.

Fujii, Atsushi: *See*—

Takubo, Toyokazu; and Fujii, Atsushi, 4,666,649, Cl. 264-176.100.

Fujii, Chiyuki: *See*—

Yamazaki, Hiroshi; Wakatsuki, Yasuo; Fujii, Chiyuki; and Watanabe, Seiichi, 4,656,299, Cl. 556-22.000.

Fujii, Eiichi: *See*—

Osato, Yoichi; Fujii, Eiichi; Saito, Ichiro; and Arao, Kozo, 4,664,977, Cl. 428-336.000.

Osato, Yoichi; Saito, Ichiro; Arao, Kozo; Fujii, Eiichi; and Takasu, Yoshio, 4,675,767, Cl. 360-131.000.

Fujii, Etsuo: *See*—

Hattori, Kenji; and Fujii, Etsuo, 4,706,500, Cl. 73-728.000.

Fujii, Fumiaki: *See*—

Suzuki, Toshiro; Fujii, Fumiaki; and Yamada, Izuru, 4,707,654, Cl. 324-158.00R.

Fujii, Haruki; Ikada, Shoji; Fukuda, Akimitsu; and Okumura, Yasuo, to Nihon Parkerizing Co., Ltd. Coated aluminum-zinc alloy plated sheet steel. 4,637,840, 1-20-87, Cl. 148-6.200.

Fujii, Haruo; and Ando, Yujiro, to Canon Kabushiki Kaisha. Image forming apparatus. 4,658,275, 4-14-87, Cl. 346-154.000.

Fujii, Haruo; Inaba, Yutaka; and Ando, Yujiro, to Canon Kabushiki Kaisha. Multicolor image recording method and device utilizing a single image transfer to the recording material. 4,682,880, 7-28-87, Cl. 355-4.000.

Fujii, Hidehiko: *See*—

Kataoka, Akira; Hawai, Yasuo; Fujii, Hidehiko; Oya, Tetsuro; and Fujino, Akihiko, 4,692,010, Cl. 354-273.000.

Fujii, Hideji; Hayakawa, Takayuki; Sato, Shigeru; and Yanagihara, Eiichi, to Hitachi, Ltd.; and Hitachi Medical Corporation. Method of producing ionization chamber detector. 4,640,729, 2-3-87, Cl. 156-257.000.

Fujii, Hidekatsu: *See*—

Sasagaki, Nobuaki; and Fujii, Hidekatsu, 4,693,577, Cl. 354-155.000.

Fujii, Hiroshi; Hara, Akio; Kobayashi, Mitsunori; and Mori, Yoshikatsu, to Sumitomo Electric Industries, Ltd. Coated hard metal tool. 4,643,620, 2-17-87, Cl. 407-119.000.

Fujii, Hiroshi, to Casio Computer Co., Ltd. Radio wave data transmission watch device. 4,644,352, 2-17-87, Cl. 340-825.440.

Fujii, Hiroshi; Sakamoto, Shunji; and Kimura, Kunji, to Mazda Motor Corporation. Automobile assembling apparatus. 4,658,501, 4-21-87, Cl. 29-787.000.

Fujii, Hiroshi; Iio, Tsukasa; Genba, Yasusi; Moriwaki, Hideaki; and Mochizuki, Yoshinori, to Mitsubishi Denki Kabushiki Kaisha. Circuit breaker with arc shielded contact arm. 4,716,265, 12-29-87, Cl. 200-144.00R.

Fujii, Hiroshi: *See*—

Aoyama, Shunichi; Fujii, Hiroshi; and Kato, Manabu, 4,703,734, Cl. 123-432.000.

Fujihisa, Hiroaki; Fujii, Hiroshi; Ohishi, Hirotoshi; and Kobayashi, Yoshiaki, 4,641,001, Cl. 200-153.00G.

Taketani, Toshinobu; Kuramori, Ken; Sakamoto, Sunji; and Fujii, Hiroshi, 4,683,651, Cl. 29-786.000.

Fujii, Hiroyuki; Tateno, Kenichi; and Nishikawa, Mikio, to Matsushita Electronics Corporation. Method for manufacturing a plastic encapsulated semiconductor device and a lead frame therefor. 4,637,130, 1-20-87, Cl. 29-588.000.

Fujii, Ikunori: *See*—

Fujihara, Masaaki; Fujii, Ikunori; and Fujita, Shuji, 4,709,644, Cl. 112-237.000.

Fujii, Isao: *See*—

Yagi, Shizuo; Hirosawa, Yoshiaki; Kawai, Makoto; and Fujii, Isao, 4,694,799, Cl. 123-425.000.

Fujii, Kanenaga: *See*—

Yamashita, Hiroshi; Fujii, Kanenaga; Hayakawa, Junji; Komiyama, Toru; and Tamaru, Sinji, 4,673,243, Cl. 350-96.150.

Fujii, Katsuhiro: *See*—

Yokota, Akira; Kato, Masashi; and Fujii, Katsuhiro, 4,666,387, Cl. 425-3.000.

Fujii, Katsumasa: *See*—

Sato, Toru; Okazaki, Naoto; and Fujii, Katsumasa, 4,681,099, Cl. 128-204.230.

Sato, Toru; Okazaki, Naoto; Hasegawa, Toshihisa; Fujii, Katsumasa; and Takano, Kazukiyo, 4,686,974, Cl. 128-204.230.

Fujii, Kazuo: *See*—

Iwata, Kazuyoshi; and Fujii, Kazuo, 4,648,209, Cl. 51-90.000.

shi: *See—*
Hidemasa; Yamanaka, Mitsuo; and Fujii, Kazuyoshi,
72, Cl. 524-100.000.
: Tomono, Noboru; Kito, Tetsuo; and Yoshino, Kosei, to
Electric Co., Ltd. Electromagnetic relay having precise
elationship between elements. 4,703,295, 10-27-87, Cl.

o: *See—*
kihiko; Muto, Shigeaki; Niimura, Koichi; Ando, Takao;
Takayoshi; Fujii, Masahiko; Furusho, Takao; and Yo-
, Chikao, 4,690,920, Cl. 514-201.000.
o; Kamada, Minoru; and Matsubara, Shigeharu, to Nip-
orporation. Process for treating industrial wastewaters by
udge. 4,698,158, 10-6-87, Cl. 210-610.000.
Gotoh, Shiroh; Nakagawa, Hideaki; and Ito, Ryoichi, to
Petrochemical Co., Ltd. Foaming resin composition.
-14-87, Cl. 521-95.000.
Sakai, Takao; Sakurai, Hideo; and Yamamoto, Yosiharu,
hi Petrochemical Company Limited. Process for produc-
in polymers. 4,701,505, 10-20-87, Cl. 526-125.000.
ori; Honda, Nobuyasu; Horiuchi, Akira; and Kubo,
to Mita Industrial Co., Ltd. Negatively chargeable blue
nprising indanthrone dye. 4,665;001, 5-12-87, Cl.
.
ri: *See—*
Nobuyasu; Fujii, Masanori; and Kubo, Masahiko,
29, Cl. 430-126.000.
Nakao, Kazushige; and Tetsuno, Haruo, to Mitsubishi
bushiki Kaisha. Boiling cooling apparatus. 4,653,579,
165-104.290.
ki: *See—*
neo; Simizu, Jyosei; Suzuki, Masami; Okamoto, Nobuyuki;
a, Toshinori; Honda, Masanobu; Mochida, Jiro; Tada,
nd Fujii, Masayuki, 4,660,110, Cl. 360-98.000.
aru: *See—*
na, Yutaka; Fujii, Mitsuharu; and Takei, Hiroshi,
86, Cl. 514-532.000.
: *See—*
Soichi; Aihara, Mitsuo; and Fujii, Mitsuo. 4,691,287, Cl.
0.000.
; Dobashi, Tomoyuki; Sasaki, Hisashi; Imanishi, Masami-
eda, Toshihiro. Liquid dispenser having sound generating
4,674,654, 6-23-87, Cl. 222-39.000.
: *See—*
Syojiro; Fujii, Noriaki; Gamo, Hiroshi; and Kobayashi,
u, 4,695,925, Cl. 361-395.000.
asu: *See—*
na, Yoshihisa; and Fujii, Noriyasu. 4,661,803, Cl. 340-
NT.
: *See—*
ka, Sadao; Tada, Satomi; Fujii, Osamu; Yoneyama, Goro;
dei, Masao, 4,666,393, Cl. 425-204.000.
: *See—*
, Tsugio; Abe, Tadashi; Haibara, Fumio; Fujii, Ritsuo; Ura,
k; and Matsumoto, Tooru, 4,650,176, Cl. 271-225.000.
See—
, Kenichi; and Fujii, Senzo, 4,636,954, Cl. 364-414.000.
o; Nakayama, Toyoo; Nunomura, Shigeki; Matsui, Ryoji;
, Shin-ichi; Sudo, Kimio; Okutome, Toshiyuki; Kurumi,
Sakurai, Yojiro; and Aoyama, Takuo, to Torii & Co. Ltd.
dine compound. 4,634,783, 1-6-87, Cl. 549-475.000.
o; Yokoyama, Touru; Ikegaya, Kouji; Yokoo, Nobuo; and
Masahiko, to Kowa Company, Ltd. Pharmaceutical com-
itable for intestinal administration. 4,639,435, 1-27-87, Cl.
)
; Unemi, Norio; and Takeda, Setsuo, to Taiho Pharmaceu-
pany Limited. Anti-cancer compositions for delivering
acil. 4,650,801, 3-17-87, Cl. 514-274.000.
; Unemi, Norio; and Takeda, Setsuo, to Taiho Pharmaceu-
pany Limited. Anti-cancer composition for delivering
acil. 4,652,570, 3-24-87, Cl. 514-274.000.
o; Ogawa, Kazuo; Hamakawa, Toshihiro; and Muranaka,
, to Taiho Pharmaceutical Company, Limited. Sulfonic
derivatives useful as antilipemic agents. 4,675,428, 6-23-87,
000.
; Mori, Shoichi; and Tabuchi, Jyoichi, to Toa Nenryo
bushiki Kaisha. Fibrous apatite and method for producing
4,659,617, 4-21-87, Cl. 428-221.000.
: *See—*
iro; Murakami, Shiro; Fujii, Shigeo; Nakao, Masayuki; and
, Tsutomu, 4,663,193, Cl. 427-129.000.
ni, Shiro; Fujii, Shigeo; Nakao, Masayuki; Igarashi,
; and Endo, Juro, 4,645,690, Cl. 427-128.000.
u; and Shimizu, Motohiro, to Honda Giken Kogyo Kabu-
a. Self-excited generator. 4,663,582, 5-5-87, Cl. 322-63.000.
u, to Fujitsu Limited. Chip-on-chip semiconductor device
lectable terminal connections. 4,697,095, 9-29-87, Cl.
0.
u; and Oozeki, Masanori, to Fujitsu Limited. Delay circuit
ray LSI. 4,700,089, 10-13-87, Cl. 307-605.000.
u: *See—*
a, Yoshihisa; Fujii, Shigeru; Kawauchi, Kazuyuki; and
da, Toshihiko, 4,661,815, Cl. 340-825.860.
a, Yoshihisa; Fujii, Shigeru; and Tanabe, Tomoaki,
777, Cl. 357-42.000.

Fujii, Shinichiro: *See—*
Matsui, Tsutomu; Fujii, Shinichiro; and Kakishima, Mitsutoshi, 4,643,597, Cl. 400-124.000.

Fujii, Shoichiro: *See—*
Takanohashi, Kunio; Yoshida, Tsuneaki; and Fujii, Shoichiro, 4,695,639, Cl. 548-165.000.

Fujii, Syuso: *See—*
Iizuka, Tetsuya; Fujii, Syuso; and Uchida, Yukimasa, 4,641,165, Cl. 357-23.600.

Fujii, Tadaaki: *See—*
Ohe, Takeshi; Fujii, Tadaaki; and Koike, Ichiro, 4,645,025, Cl. 180-79.100.

Fujii, Tadashi, to Terumo Kabushiki Kaisha. Ultrasonic measurement method, and apparatus therefor. 4,644,510, 2-17-87, Cl. 367-87.000.

Fujii, Tadashi; and Ishizuka, Yoshizo, to Terumo Kabushiki Kaisha. Ultrasonic measurement method, and apparatus therefor. 4,646,748, 3-3-87, Cl. 128-660.000.

Fujii, Tadashi; Yagami, Hiroyuki; Seo, Iwao; and Sasaki, Masahiro, to Terumo Corporation; and Mitsubishi Petrochemical Co., Ltd. Piezoelectric ultrasonic transducer with flexible electrodes adhered using an adhesive having anisotropic electrical conductivity. 4,701,659, 10-20-87, Cl. 310-334.000.

Fujii, Tadashi; Yagami, Hiroyuki; Seo, Iwao; and Sasaki, Masahiro, to Terumo Kabushiki Kaisha; and Mitsubishi Petrochemical Co., Ltd. Ultrasonic transducer and method of manufacturing same. 4,704,774, 11-10-87, Cl. 29-25.350.

Fujii, Tadashi: *See—*
Ona, Isao; Ozaki, Masaru; and Fujii, Tadashi, 4,684,709, Cl. 528-15.000.

Fujii, Tadayoshi: *See—*
Arai, Shokichi; and Fujii, Tadayoshi, 4,662,467, Cl. 180-210.000.

Fujii, Taisuke, to Nippon Steel Corporation. Method for cooling a metal strip in a continuous annealing furnace. 4,705,579, 11-10-87, Cl. 148-142.000.

Fujii, Takao: *See—*
Fukuda, Hideo; Ogawa, Takahira; and Fujii, Takao, 4,698,304, Cl. 435-166.000.

Fujii, Takashi: *See—*
Sakurai, Masao; Hamada, Yousuke; Ninomiya, Morimasa; Takechi, Toshihide; Nakagawa, Kunihiro; and Fujii, Takashi, 4,633,735, Cl. 74-675.000.

Fujii, Takaya: *See—*
Shibuki, Osamu; Matsuyama, Noboru; Umemura, Yoichi; Kamiya, Atsushi; Fujii, Takaya; Seki, Masayuki; and Ohta, Norio, 4,664,352, Cl. 248-562.000.

Fujii, Takayoshi: *See—*
Kanno, Akihiko; Muto, Shigeaki; Niimura, Koichi; Ando, Takao; Fujii, Takayoshi; Fujii, Masahiko; Furusho, Takao; and Yoshikumi, Chikao, 4,690,920, Cl. 514-201.000.
Muto, Shigeaki; Ando, Takao; Fujii, Takayoshi; Kanno, Akihiko; Onishi, Yoko; Motokawa, Isamu; Furusho, Takao; and Yoshikumi, Chikao, 4,681,877, Cl. 514-206.000.
Ueno, Saburo; Yoshikumi, Chikao; Omura, Yoshio; Fujii, Takayoshi; Wada, Toshihiko; Takahashi, Eiichi; and Hirose, Fumio, 4,699,787, Cl. 424-95.000.
Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,637,998, Cl. 514-42.000.
Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,649,133, Cl. 514-42.000.
Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,657,895, Cl. 514-42.000.
Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,663,312, Cl. 514-42.000.
Yoshikumi, Chikao; Fujii, Takayoshi; Furusho, Takao; Matsunaga, Kenichi; Ohara, Minoru; and Kobayashi, Akira, 4,663,438, Cl. 530-395.000.
Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,673,669, Cl. 514-42.000.
Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,708,950, Cl. 514-42.000.

Fujii, Takayuki; and Baba, Masayoshi, to Honda Giken Kogyo Kabushiki Kaisha. Body for two-wheeled or three-wheeled vehicle. 4,648,650, 3-10-87, Cl. 296-203.000.

Fujii, Takazo: *See—*
Inada, Yasuo; Sato, Koki; Fujii, Takazo; Yokoyama, Hideo; Takahashi, Shoichi; Mizutani, Kiyoshi; Kawashima, Takayoshi; and Nagawa, Akira, 4,664,333, Cl. 242-107.40A.

Fujii, Takeo, to NEC Corporation. Structure of power supply wirings in semiconductor integrated circuit. 4,654,689, 3-31-87, Cl. 357-51.000.

Fujii, Tatsuo, to TDK Corporation. Package including disk-form magnetic recording mediums. 4,700,839, 10-20-87, Cl. 206-444.000.

Fujii, Tatsuo: *See—*
Ozu, Tadahiro; Nakayama, Nobuyoshi; and Fujii, Tatsuo, 4,687,136, Cl. 239-8.00X.

Fujii, Teruo; and Tsutsui, Tomikazu, to Dainippon Screen Mfg. Co., Ltd. Drum type image scanning and recording apparatus. 4,637,710, 1-20-87, Cl. 355-72.000.

Fujii, Teruo, to Dainippon Screen Mfg. Co., Ltd. Rotary suction drum. 4,687,323, 8-18-87, Cl. 355-73.000.

Fujii, Toru; Takase, Hiroshi; and Imaizumi, Masaki, to Olympus Optical Co., Ltd. Varifocal lens system. 4,708,442, 11-24-87, Cl. 350-422.000.

Fujii, Toru: *See—*
- Imaizumi, Masaki; Takase, Hiroshi; and Fujii, Toru, 4,653,870, Cl. 350-422.000.
- Mihara, Shin-ichi; Imai, Toshihiro; Ikari, Kazuo; and Fujii, Toru, 4,635,125, Cl. 358-228.000.
- Takase, Hiroshi; Imaizumi, Masaki; and Fujii, Toru, 4,668,054, Cl. 350-422.000.
- Takase, Hiroshi; Imaizumi, Masaki; and Fujii, Toru, 4,715,693, Cl. 350-422.000.

Fujii, Toshifumi: *See—*
- Ookawa, Katsuhiro; Fujii, Toshifumi; and Nishida, Yoshihiro, 4,691,251, Cl. 360-14.100.

Fujii, Toshihiro: *See—*
- Kitahara, Shizuo; Hirokawa, Yoshitsugu; Kawada, Haruki; Fujii, Toshihiro; Sugi, Nagatoshi; Hasegawa, Hiroaki; and Yoshioka, Akira, 4,654,435, Cl. 560-61.000.
- Kitahara, Shizuo; Hirokawa, Yoshitsugu; and Fujii, Toshihiro, 4,677,153, Cl. 524-552.000.

Fujii, Toshikazu: *See—*
- Takematsu, Tetsuo; Takeuchi, Yasutomo; Hiraishi, Kozo; Fujii, Toshikazu; Nishimula, Shoji; Suzuki, Motoyuki; Sato, Masahiro; and Hayashi, Hiroshi, 4,657,581, Cl. 71-118.000.

Fujii, Toshinori; and Okamoto, Shinji, to Matsushita Electric Works, Ltd. Method for drilling reference holes in multi-layer printed wiring board assembly. 4,708,545, 11-24-87, Cl. 409-131.000.

Fujii, Toshio: *See—*
- Matsumoto, Yoshio; Fujii, Toshio; Shinohara, Yoshinao; and Fukuda, Kiyoshi, 4,705,828, Cl. 525-232.000.

Fujii, Tsuguo; Yamamoto, Katsumasa; Aratani, Tetsuo; and Uegaki, Yoshinori, to Toyo Boseki Kabushiki Kaisha. Process for preparing polyarylene sulfide with alkali metal salt of phenolic aromatic sulfonic acid. 4,663,431, 5-5-87, Cl. 528-388.000.

Fujii, Tsunenori: *See—*
- Hirai, Yoichi; Fujii, Tsunenori; Koto, Kaoru; Suzuki, Kenji; Yoshida, Masahiro; Okawa, Hisashi; Okabe, Yoshiaki; Kitamura, Teruo; Yokokura, Hisao; Hattori, Shintaroo; Mukoh, Akio; and Sato, Mikio, 4,694,098, Cl. 560-59.000.

Fujii, Tsuneo; Inukai, Hiroshi; Deguchi, Takayuki; Amano, Toshihiko; Kakuchi, Masami; Asakawa, Hiroshi; and Kogure, Osamu, to Daikin Kogyo Co., Ltd.; and Nippon Telegraph & Telephone Public Corporation. Fluoroalkyl acrylate resist material and process for forming fine resist pattern. 4,686,168, 8-11-87, Cl. 430-326.000.

Fujii, Tsuneo: *See—*
- Satokawa, Takaomi; Fujii, Tsuneo; and Deguchi, Takayuki, 4,656,108, Cl. 430-18.000.

Fujii, Yasufumi: *See—*
- Sakagami, Teruo; Fujii, Yasufumi; and Murayama, Naohiro, 4,644,025, Cl. 526-261.000.
- Sakagami, Teruo; Fujii, Yasufumi; and Murayama, Naohiro, 4,704,006, Cl. 350-409.000.

Fujii, Yasuhiro: *See—*
- Takemae, Yoshihiro; Nakano, Tomio; Tatematsu, Takeo; Ogawa, Junji; Horii, Takashi; Fujii, Yasuhiro; Nakano, Masao; and Tsuge, Norihisa, deceased, 4,707,806, Cl. 365-96.000.

Fujii, Yoshihal, to Sharp Kabushiki Kaisha. Copying machine. 4,678,320, 7-7-87, Cl. 355-49.000.

Fujii, Yoshihalu, to Sharp Kabushiki Kaisha. Temperature controller with shape memory alloy in a fixing device of electrophotographic copying machine. 4,687,315, 8-18-87, Cl. 355-3.0FU.

Fujii, Yoshiharu: *See—*
- Katsuya, Hiroo; Kato, Chiaki; and Fujii, Yoshiharu, 4,633,805, Cl. 118-60.000.

Fujii, Yoshihiko: *See—*
- Osaki, Shigeyoshi; and Fujii, Yoshihiko, 4,710,700, Cl. 324-58.50A.

Fujii, Yoshikazu; Deguchi, Toshihisa; Inui, Tetsuya; and Yamaoka, Hideyoshi, to Sharp Kabushiki Kaisha. Optical focus position control in optical disc apparatus. 4,660,190, 4-21-87, Cl. 369-44.000.

Fujii, Yoshikazu; Inui, Tetsuya; Deguchi, Toshihisa; and Okuda, Tohru, to Sharp Kabushiki Kaisha. Tight beam position controlling apparatus. 4,667,315, 5-19-87, Cl. 369-44.000.

Fujii, Yoshimasa: *See—*
- Ishikawa, Haruo; and Fujii, Yoshimasa, 4,684,208, Cl. 350-96.150.

Fujii, Yosikazu; Inui, Tetsuya; Deguchi, Toshihisa; and Yamaoka, Hideyoshi, to Sharp Kabushiki Kaisha. Optical focus position control in an optical memory system. 4,658,390, 4-14-87, Cl. 369-45.000.

Fujii, Yozo, to Konishiroku Photo Industry Co., Ltd. Exposure optical apparatus. 4,636,058, 1-13-87, Cl. 355-8.000.

Fujiie, Kazuhiko: *See—*
- Terayama, Yasunori; Nakamura, Masashi; Fujiie, Kazuhiko; and Yoshitoshi, You, 4,687,296, Cl. 350-247.000.

Fujikawa, Atsunobu: *See—*
- Midooka, Masanori; Kubo, Takashi; Fujikawa, Atsunobu; and Motoda, Masanori, 4,708,351, Cl. 277-184.000.

Fujikawa, Iwao: *See—*
- Tsubakimoto, Tsuneo; Fujikawa, Iwao; and Kushino, Mitsuo, 4,640,584, Cl. 350-344.000.

Fujikawa, Katsuhiro, to Mitsubishi Denki Kabushiki Kaisha. Speed control apparatus for sewing machine. 4,648,339, 3-10-87, Cl. 112-277.000.

Fujikawa, Katsuhiro, to Mitsubishi Denki Kabushiki Kaisha. Fast-release sewing machine control device. 4,706,588, 11-17-87, Cl. 112-239.000.

Fujikawa, Kuniyoshi, to Sharp Kabushiki Kaisha. Sensor device for use with cooking appliances. 4,658,120, 4-14-87, Cl. 219-505.000.

Fujikawa, Kyosuke: *See—*
- Seedhom, Bahaa B.; and Fujikawa, Kyosuke, 4,668,233, C 623-13.000.

Fujikawa, Masanori: *See—*
- Sawada, Tsutomu; Yoshida, Kyoji; Takano, Shozo; and Fujikaw Masanori, 4,664,658, Cl. 604-266.000.

Fujikawa, Nobuyoshi; Kawaminami, Syuichi; and Yokoe, Nobuo, t Kyocera Corporation. Multilayer ceramic capacitor. 4,701,827 10-20-87, Cl. 361-309.000.

Fujikawa, Takao: *See—*
- Tojyo, Shigeki; Uesaka, Tatsuo; Kawate, Yoshio; Iwaskai, Masayoshi; Horiuchi, Takefumi; Moritoki, Masato; Kanda, Takesh Fujikawa, Takao; and Kofune, Shigeo, 4,666,314, Cl 374-131.000.

Fujikawa, Tetsuzo; Yamaguchi, Yooichi; and Ueda, Yoshiteru, to Kawasaki Jukogyo Kabushiki Kaisha. Portable generator. 4,647,835, 3-3-87, Cl. 322-1.000.

Fujikawa, Tetsuzo; Hirata, Makizo; and Tamba, Shinichi, to Kawasaki Jukogyo Kabushiki Kaisha. Vertical shaft V-type engine. 4,658,767, 4-21-87, Cl. 123-52.0MV.

Fujikawa, Tetsuzo; Hirata, Makizo; and Tamba, Shinichi, to Kawasaki Jukogyo Kabushiki Kaisha. Valve gear for use in a four cycle engine. 4,682,573, 7-28-87, Cl. 123-90.200.

Fujikawa, Tetsuzo; Hirata, Makizo; and Tamba, Shinichi, to Kawasaki Jukogyo Kabushiki Kaisha. Valve system for overhead valve type four-cycle engine. 4,683,847, 8-4-87, Cl. 123-90.200.

Fujikawa, Tetsuzo; Hirata, Makizo; Tamba, Shinichi; and Fukui, Noboru, to Kawasaki Jukogyo Kabushiki Kaisha. Valve gear for four-cycle engine. 4,697,555, 10-6-87, Cl. 123-90.230.

Fujikawa, Toshiaki: *See—*
- Horie, Nobuyuki; Sakamoto, Noriaki; Fujikawa, Toshiaki; and Yamanaka, Toshihiro, 4,635,145, Cl. 360-78.000.

Fujikawa, Toshihiro, to Kyowa Engineering Co., Ltd. Valve capable of bidirectional flow. 4,676,271, 6-30-87, Cl. 137-614.210.

Fujikawa, Wataru: *See—*
- Tsuchiya, Sohji; Fujikawa, Wataru; Kojima, Toshikuni; Higuchi, Sadashi; and Yamashita, Akio, 4,660,939, Cl. 350-357.000.

Fujikawa, Yoshihiro; Sakashita, Mitsuaki; and Tsuruzoe, Nobutomo, to Nissan Chemical Industries, Ltd. 3,5-dialkyl-4,6-diaryl-tetrahydro-2H-1,3,5-thiadiazine-2-thione derivatives, process for its production and antihyperlipidemic agent containing it. 4,639,444, 1-27-87, Cl 514-222.000.

Fujikawa, Yoshihiro, to Toyota Jidosha Kabushiki Kaisha. Window glass mounting on a motor vehicle. 4,646,492, 3-3-87, Cl. 52-208.000

Fujikawa, Yoshihiro; Suzuki, Mikio; Sakashita, Mitsuaki; Tsuruzoe, Nobutomo; and Miyasaka, Tadashi, to Nissan Chemical Industries, Ltd. Pyrazolo[4,3-d]pyrimidine derivative, process for its production, antihyperlipidemic agent containing it, its intermediate, and process for the production of the intermediate. 4,654,348, 3-31-87, Cl 514-258.000.

Fujikawa, Yoshihiro, to Toyota Jidosha Kabushiki Kaisha. Mounting apparatus for a vehicle window. 4,703,973, 11-3-87, Cl. 296-201.000

Fujikawa, Yoshiyuki: *See—*
- Morino, Masuaki; Fujikawa, Yoshiyuki; Haneda, Isamu; and Myoi, Tetsuo, 4,636,970, Cl. 364-706.000.

Fujiki, Hironao; Yamaguchi, Koichi; and Yamamoto, Yasushi, to Shin-Etsu Chemical Co., Ltd. Surface-releasing agent against sticking adhesive. 4,673,621, 6-16-87, Cl. 428-420.000.

Fujiki, Hiroyuki; Michiura, Yoshiharu; and Abe, Masafumi, to Nissan Motor Co., Ltd. Umbrella holder for vehicle. 4,700,848, 10-20-87, Cl 211-63.000.

Fujiki, Kuniharu; and Togashi, Hiroshi, to Victor Company of Japan, Ltd. Magnetic recording medium comprising a surface-treated abrasive. 4,634,627, 1-6-87, Cl. 428-323.000.

Fujiki, Kuniharu; and Matsumoto, Ikuo, to Victor Company of Japan, Ltd. Magnetic recording medium. 4,699,817, 10-13-87, Cl. 428-64.000

Fujiki, Kuniharu: *See—*
- Sekiya, Satoshi; Matsumoto, Ikuo; and Fujiki, Kuniharu, 4,671,995, Cl. 428-336.000.
- Sekiya, Satoshi; Matsumoto, Ikuo; and Fujiki, Kuniharu, 4,708,906, Cl. 428-336.000.

Fujiki, Masao: *See—*
- Hattori, Masakatsu; and Fujiki, Masao, 4,636,884, Cl. 360-78.000
- Kunii, Shinpei; and Fujiki, Masao, 4,686,590, Cl. 360-78.000.

Fujiki, Syogo: *See—*
- Kitamura, Hideaki; Fujiki, Syogo; and Yamada, Mitsuhiko, 4,683,500, Cl. 358-280.000.

Fujiki, Yasuo: *See—*
- Watanabe, Kenshu; Shiba, Kiminori; Arai, Mikiya; Yamaguchi, Masaya; Fujiki, Yasuo; and Fujimoto, Ryohei, 4,648,480, Cl 181-158.000.

Fujiki, Yutaka, to Kabushiki Kaisha Toshiba. Emission computed tomography apparatus. 4,698,506, 10-6-87, Cl. 250-363.00S.

Fujikigyo Co., Ltd.: *See—*
- Kohara, Soichiro, 4,700,523, Cl. 52-565.000.

Fujikin International, Inc.: *See—*
- Ogawa, Hiroshi; Sonoda, Yoshiteru; and Dohi, Ryosuke, 4,645,176, Cl. 251-129.080.

Fujikura Kasei Co., Ltd.: *See—*
- Sugiyama, Norihide; Funato, Katsuro; Nagase, Hiroshi; Yamamoto, Seiichi; and Miyamori, Shigeo, 4,702,989, Cl. 430-137.000
- Ueda, Hikoji; Otsu, Akira; Sano, Kenji; and Takano, Katuyuki, 4,652,511, Cl. 430-137.000.

Fujikura Ltd.: *See—*
- Fukushima, Eiji; Tanaka, Minoru; Sanada, Kazuo; and Chigira, Sadao, 4,707,075, Cl. 350-96.260.

Hasegawa, Masatake; Kobayashi, Hirotada; Sunazuka, Hideo; Yoshino, Akira; Matsuda, Takao; and Shingo, Yoshioki, 4,671,896, Cl. 252-609.000.

Hirai, Hitoshi; Homma, Yoshikatsu; and Inoue, Tadashi, 4,674,832, Cl. 350-96.210.

Kobayashi, Toshiaki; Sanada, Kazuo; Murayama, Toshiaki; Sugawara, Yasuyuki; Uesugi, Naoshi; and Ishihara, Koushi, 4,679,899, Cl. 350-96.300.

Nakamura, Koichi; Ishibashi, Masashi; Kameda, Hideki; and Makiyo, Minoru, 4,699,743, Cl. 264-104.000.

Sadakata, Nobuyuki; Ikeno, Yoshimitsu; Sugimoto, Masaru, and Kohno, Osamu, 4,665,611, Cl. 29-599.000.

Takaoka, Michio; Motai, Tsuneaki; Ono, Motoyuki; Kaji, Isao; Hasegawa, Masakazu; Tan, Masayuki; and Kurata, Masaru, 4,701,117, Cl. 425-116.000.

Tanaka, Masao; Watanabe, Okosu; and Inada, Koichi, 4,702,548, Cl. 350-96.150.

Tominaga, Haruo; Takayama, Teruyuki; Ogura, Yoshio; and Yamaguchi, Tetsuo, 4,686,153, Cl. 428-610.000.

Yamada, Takeshi; Osato, Yasukuni; and Watanabe, Okosu, 4,680,449, Cl. 219-385.000.

Fujikura, Makoto: *See—*

Maruyama, Eiichi; Fujikura, Makoto; Matsubara, Hirokazu; and Shimada, Toshikazu, 4,672,015, Cl. 430-57.000.

Tachiki, Shigeo; Shibuya, Ikutoshi; Fujikura, Makoto; and Kakuta, Atsushi, 4,657,834, Cl. 430-58.000.

Fujikura, Nobuyuki: *See—*

Yabushita, Masaharu; Nohmi, Makoto; Fujikura, Nobuyuki; Miyamoto, Shoji; and Ihara, Hirokazu, 4,641,237, Cl. 364-200.000.

Fujikura Rubber Limited: *See—*

Arizumi, Ryozo; and Ejiri, Takashi, 4,712,576, Cl. 437-270.000.

Fujikura, Sadao: *See—*

Iwasaki, Masayuki; Maeda, Minoru; and Fujikura, Sadao, 4,657,942, Cl. 522-16.000.

Fujikura, Takashi: *See—*

Imai, Kazuo; Niigata, Kunihiro; Fujikura, Takashi; Hashimoto, Shinichi; and Takenaka, Toichi, 4,703,063, Cl. 514-603.000.

Fujikura, Yoshiaki; Yamamuro, Akira; and Nakajima, Motoki, to KAO Corporation. Bornana-3-spiro-1′-cyclopentanes and perfume compositions comprising the same. 4,693,845, 9-15-87, Cl. 512-9.000.

Fujima, Yukihisa: *See—*

Takahashi, Yasuro; Fujima, Yukihisa; and Tokuda, Kimishiro, 4,669,398, Cl. 110-347.000.

Fujimaki, Kazuo: *See—*

Maruyama, Hidekazu; and Fujimaki, Kazuo, 4,639,037, Cl. 297-334.000.

Fujimaki, Norio: *See—*

Hasuo, Shinya; and Fujimaki, Norio, 4,713,562, Cl. 307-462.000.

Fujimatsu, Masaaki; and Kobashi, Toshiyuki, to Japan Exlan Company, Ltd. Method of producing a flame-retardant acrylic copolymer. 4,716,002, 12-29-87, Cl. 264-182.000.

Fujimatsu, Satoshi: *See—*

Amemiya, Tsuguo; Magata, Yutaka; Fujimatsu, Satoshi; and Morita, Masahiro, 4,694,147, Cl. 235-379.000.

Fujimi Kenmazai Kogyo Kabushiki Kaisha: *See—*

Kitano, Hirohito; Oowaki, Toshiki; and Baba, Takashi, 4,696,697, Cl. 106-3.000.

Senda, Tetsuji; and Baba, Takashi, 4,705,566, Cl. 106-3.000.

Fujimori, Fumio: *See—*

Adachi, Yoshiharu; Fujimori, Fumio; Kondo, Toshio; Uemura, Hiroshi; and Shibatani, Juichi, 4,662,484, Cl. 188-73.450.

Adachi, Yoshiharu; Fujimori, Fumio; Kondo, Toshio; Uemura, Hiroshi; and Shibatani, Juichi, 4,678,064, Cl. 188-73.450.

Fujimori, Hiroyoshi; and Nagasaki, Tatsuo, to Olympus Optical Co., Ltd. Illuminating and synchronizing device for color imaging equipment. 4,713,683, 12-15-87, Cl. 358-42.000.

Fujimori, Hiroyoshi: *See—*

Nagasaki, Tatsuo; and Fujimori, Hiroyoshi, 4,638,353, Cl. 358-98.000.

Nagasaki, Tatsuo; and Fujimori, Hiroyoshi, 4,653,478, Cl. 128-6.000.

Nagasaki, Tatsuo; and Fujimori, Hiroyoshi, 4,663,657, Cl. 358-98.000.

Fujimori, Hisanori: *See—*

Seki, Masahiko; Nakatani, Hiroshi; Kogumasaka, Katsuya; Takao, Seiyu; Arimitsu, Isao; and Fujimori, Hisanori, 4,653,065, Cl. 373-80.000.

Fujimori, Junichi; and Sugiyama, Jun, to Nippon Gakki Seizo Kabushiki Kaisha. Tone signal generation device for an electronic musical instrument. 4,633,749, 1-6-87, Cl. 84-1.010.

Fujimori Kogyo Co.: *See—*

Johnston, William D.; Czuba, Leonard; Webster, R. D.; Hori, Yasuhiko; Nagata, Masanori; and Imano, Shigeki, 4,686,125, Cl. 428-35.000.

Fujimori Kogyo Co., Inc.: *See—*

Johnston, William D.; Czuba, Leonard; Webster, R. D.; Hori, Yasuhiko; Nagata, Masanori; and Imano, Shigeki, 4,692,361, Cl. 428-35.000.

Takahashi, Toru; and Yoshida, Taro, 4,692,327, Cl. 428-35.000.

Fujimori, Kyoichi: *See—*

Yasuhara, Seishi; Hagiwara, Mitsuo; Inoue, Kazuo; Fujimori, Kyoichi; Sekiguchi, Akira; and Okada, Hiroshi, 4,638,782, Cl. 123-502.000.

Fujimori, Shoichi: *See—*

Miyagi, Tokuya; Inoue, Akihisa; Hamada, Katushi; Fujimori, Shoichi; and Hori, Yoshihiro, 4,663,041, Cl. 210-493.200.

Fujimori, Yoshio: *See—*

Ito, Takayasu; Nishijima, Hideo; Fukushima, Isao; Fujimori, Yoshio; and Kobori, Yasunori, 4,651,067, Cl. 318-254.000.

Fujimoto, Akihiko, to Mitsubishi Denki Kabushiki Kaisha. Numerical control device. 4,689,751, 8-25-87, Cl. 364-474.000.

Fujimoto, Akihiko: *See—*

Koyokawa, Morio; and Fujimoto, Akihiko, 4,716,349, Cl. 318-562.000.

Fujimoto, Etsuo, to Tokyo Roki Co., Ltd. Filter element. 4,655,921, 4-7-87, Cl. 210-489.000.

Fujimoto, Etsuo, to Tokyo Roki Co., Ltd. Variant length pleated filter element. 4,673,503, 6-16-87, Cl. 210-493.100.

Fujimoto, Hiroaki: *See—*

Hoshiba, Akihiko; and Fujimoto, Hiroaki, 4,699,098, Cl. 123-192.00B.

Ogasahara, Takio; and Fujimoto, Hiroaki, 4,690,109, Cl. 123-73.00A.

Onogi, Toshiro; Hatakawa, Mamoru; and Fujimoto, Hiroaki, 4,658,375, Cl. 364-900.000.

Fujimoto, Hirofumi: *See—*

Kawai, Nobuyasu; Hirano, Minoru; Esaka, Hajime; and Fujimoto, Hirofumi, 4,671,930, Cl. 420-107.000.

Fujimoto, Ichio, to Fujic Fishing Tackle Mfg. Co., Ltd. Fishhook holder. 4,667,435, 5-26-87, Cl. 43-43.160.

Fujimoto, Kazuhiro: *See—*

Asari, Akira; Yamamura, Takashige; Hattori, Shigeo; Ueno, Tsuneya; Matsumoto, Satoshi; Dosai, Takayoshi; Ohtsuki, Fumikazu; Fujimoto, Kazuhiro; and Takahashi, Toshimitsu, 4,669,291, Cl. 72-83.000.

Ishida, Kunio; Saito, Satoshi; Habuto, Akinaka; Murata, Tadahiko; Oiso, Hisayoshi; Joyama, Norio; and Fujimoto, Kazuhiro, 4,655,125, Cl. 99-355.000.

Fujimoto, Kazuhisa: *See—*

Ishii, Shinzo; Katsumata, Shigeo; Arai, Yukou; Fujimoto, Kazuhisa; and Morimoto, Makoto, 4,649,199, Cl. 544-342.000.

Fujimoto, Kazuo: *See—*

Shimizu, Hirokazu; Itoh, Kunio; Sugino, Takashi; Wada, Masaru; Teramoto, Iwao; and Fujimoto, Kazuo, 4,651,322, Cl. 372-45.000.

Fujimoto, Keiji; and Thom, Reinhard, to Toa Medical Electronics Company Limited; and Thom, Reinhard. Method for making a glass precision valve. 4,671,915, 6-9-87, Cl. 264-162.000.

Fujimoto, Keiji: *See—*

Sato, Yoshinori; Tsuchiya, Yukio; and Fujimoto, Keiji, 4,707,363, Cl. 426-3.000.

Fujimoto, Koichi: *See—*

Nakao, Hideo; Fujimoto, Koichi; Ishihara, Sadao; Sugawara, Shinichi; and Igarashi, Isamu, 4,716,158, Cl. 514-202.000.

Fujimoto, Kyohei: *See—*

Yamamoto, Junko; Fujimoto, Kyohei; Hirasawa, Kazuhiro; and Kuboyama, Haruhiro, 4,701,763, Cl. 343-700.0MS.

Fujimoto, Makoto; Kitamura, Yoshinori; Morimura, Atsushi; and Matsuoka, Hiroki, to Matsushita Electric Industrial Co., Ltd. Solid state color imaging apparatus producing chrominance and luminance signals from unsaturated ores of n color signals. 4,680,623, 7-14-87, Cl. 358-44.000.

Fujimoto, Manabu, to Shionogi & Co., Ltd. Tetrahedral codon stereotable. 4,702,704, 10-27-87, Cl. 434-295.000.

Fujimoto, Masaharu: *See—*

Sasaki, Isao; Mori, Hiroshi; and Fujimoto, Masaharu, 4,647,650, Cl. 528-274.000.

Fujimoto, Masakazu; and Kogaito, Kikuo, to Ebara Corporation. System for controlling fluid flow in a tube of a heat exchanger. 4,693,305, 9-15-87, Cl. 165-95.000.

Fujimoto, Masashi; and Okazaki, Kazuo, to Mitsubishi Jukogyo Kabushiki Kaisha. Wire chain connector. 4,683,834, 8-4-87, Cl. 114-294.000.

Fujimoto, Masashi; and Kato, Yoshihisa, to Toshiba Ceramics, Ltd. Tool for firing ceramics. 4,693,918, 9-15-87, Cl. 428-35.000.

Fujimoto, Misao: *See—*

Mamiya, Kiyotaka; Kaneko, Tadashi; Fujimoto, Misao; and Nishimura, Hirofumi, 4,646,522, Cl. 60-602.000.

Fujimoto, Noboru: *See—*

Okuyama, Toshiaki; Matsui, Takayuki; Fujimoto, Noboru; and Kubota, Yuzuru, 4,680,526, Cl. 318-802.000.

Fujimoto, Nobuaki, to Kitagawa Industries Co., Ltd. Substrate support of integral construction. 4,712,939, 12-15-87, Cl. 403-24.000.

Fujimoto Photo Industrial Co., Ltd.: *See—*

Kashiwagi, Atsumi, 4,716,425, Cl. 354-76.000.

Fujimoto, Ryohei: *See—*

Watanabe, Kenshu; Shiba, Kiminori; Arai, Mikiya; Yamaguchi, Masaya; Fujiki, Yasuo; and Fujimoto, Ryohei, 4,648,480, Cl. 181-158.000.

Fujimoto, Sachi M. Nestable mini-greenhouse apparatus. 4,711,051, 12-8-87, Cl. 47-17.000.

Fujimoto, Satoru, to Daikin Industries, Ltd. Oscillation reducing apparatus for rotary compressor. 4,716,347, 12-29-87, Cl. 318-460.000.

Fujimoto, Shigeru: *See—*

Kitano, Kazuaki; and Fujimoto, Shigeru, 4,656,131, Cl. 435-68.000.

Fujimoto, Shine: *See—*

Ueno, Ryuzo; Itoh, Shigeru; Fujimoto, Shine; Komatsu, Yumiko; and Tsuchiya, Hiroaki, 4,655,844, Cl. 106-309.000.

Fujimoto, Tadaaki: *See—*

Taniguchi, Katsuo; Fujimoto, Tadaaki; and Saeki, Kenji, 4,675,307, Cl. 502-306.000.

Fujimoto, Tahei, to Suiseki Fujimoto. Method of inoculating mushroom basidiospores seed basidiospore bed for inoculation, culture container for seed basidiospore bed, and boring apparatus for host wood for inoculation. 4,646,465, 3-3-87, Cl. 47-1.100.

Fujimoto, Takahiko: *See—*

Ayata, Kenzo; Narita, Kiichi; Mori, Takasuke; and Fujimoto, Takahiko, 4,637,453, Cl. 164-468.000.

Ayata, Kenzo; Narita, Kiichi; Mori, Takasuke, and Fujimoto, Takahiko, 4,671,335, Cl. 164-468.000.

Fujimoto, Ted T., to Rohm and Haas Company. Plant growth regulating 1-aryl-1,4-dihydro-4-oxo(thio)-pyridazines. 4,661,145, 4-28-87, Cl. 71-92.000.

Fujimoto, Teruo; Kazama, Takeo; Takamizawa, Minoru; and Yamamoto, Akira, to Shin-Etsu Chemical Co., Ltd. Method for the preparation of a patterned photoresist layer and a photoresist composition therefor. 4,636,454, 1-13-87, Cl. 430-197.000.

Fujimoto, Tetsuo, to Toshiba Silicone Co., Ltd. Polyorganosiloxane compositions. 4,698,386, 10-6-87, Cl. 524-862.000.

Fujimoto, Toshitaka, to NEC Corporation. Piezo-electric actuator and stepping device using same. 4,714,855, 12-22-87, Cl. 310-328.000.

Fujimoto, Tsuyoshi: *See—*

Gotoh, Michihiro; Fujimoto, Tsuyoshi; Komatsu, Nobiru; and Otsuki, Yuzo, 4,646,950, Cl. 222-591.000.

Fujimoto, Yoriaki; Sasaki, Hiroshi; and Karimata, Yukihiro, to Mazda Motor Corporation. Vibration detecting apparatus for multi-rotor rotary piston engines. 4,660,517, 4-28-87, Cl. 123-210.000.

Fujimoto, Yoshihisa; Gotou, Seiz:; and Fujita, Yoshiharu, to Asahi Kasei Kogyo Kabushiki Kaisha. Polyurethane composition and a stabilizer thereof. 4,666,966, 5-19-87, Cl. 524-114.000.

Fujimoto, Yuji; Aono, Masayuki; Takei, Tsutomu; Nakano, Tetuo; and Nakabayashi, Teiji, to Daikin Industries, Ltd. Refrigeration unit including a hot gas defrosting system. 4,688,392, 8-25-87, Cl. 62-174.000.

Fujimoto, Yuuji: *See—*

Komatsu, Michiyasu; Miyano, Tadashi; Ando, Akio; Nakanishi, Masae; and Fujimoto, Yuuji, 4,671,912, Cl. 264-63.000.

Fujimura, Fumio: *See—*

Satake, Toshimi; Minami, Toshiaki; Maruyama, Kazuo; and Fujimura, Fumio, 4,644,375, Cl. 346-209.000.

Fujimura, Hajime; Hiramatu, Yasuzo; Yabuuchi, Takahiro; Hisaki, Masakatu; Takikawa, Katsuo; Honna, Takaji; Miyake, Hidekazu; and Kajitani, Makoto, to Taiho Pharmaceutical Company Limited. Allophanoylpiperazine compound and analgesic composition containing same as active ingredient. 4,666,911, 5-19-87, Cl. 514-255.000.

Fujimura, Hidekazu: *See—*

Sato, Isao; Ishibashi, Yoji; Tamura, Zensuke; Ohmori, Takashi; Minakawa, Yoshimitsu; Fujimura, Hidekazu; and Uchiyama, Yoshihiro, 4,671,069, Cl. 60-737.000.

Fujimura, Hiroshi; Kobayashi, Hideharu; Kaneko, Shozo; Iwanaga, Atsumasa; and Ichinari, Joji, to Mitsubishi Jukogyo Kabushiki Kaisha. Steel tube working apparatus. 4,676,425, 6-30-87, Cl. 228-45.000.

Fujimura, Ikuo: *See—*

Ohta, Takahiro; Inuiya, Masafumi; and Fujimura, Ikuo, 4,641,198, Cl. 358-285.000.

Fujimura, Itaru: *See—*

Ohshima, Kohichi; Kageyama, Yoshiyuki; Ide, Yukio; Fujimura, Itaru; and Kunita, Masako, 4,687,723, Cl. 430-65.000.

Fujimura, Koh; and Aoki, Hisashi, to Casio Computer Co., Ltd. Liquid crystal device. 4,647,156, 3-3-87, Cl. 350-339.00R.

Fujimura, Koh; and Endo, Kenzo, to Casio Computer Co., Ltd. Dual-frequency, dielectric anisotropy liquid crystal display. 4,688,899, 8-25-87, Cl. 350-346.000.

Fujimura, Mitsutoshi. Flat-rolled metal product cutting apparatus. 4,676,133, 6-30-87, Cl. 83-497.000.

Fujimura, Naoto; Sakai, Kiyoshi; and Okunuki, Masami, to Canon Kabushiki Kaisha. Electrophotographic photosensitive member and image forming process using the same. 4,663,259, 5-5-87, Cl. 430-58.000.

Fujimura, Satoshi: *See—*

Yoda, Kiyoshi; Itagaki, Hidenobu; Fujimura, Satoshi; and Yamada, Tadatoshi, 4,649,345, Cl. 324-309.000.

Yoda, Kiyoshi; Uetomi, Isamu; and Fujimura, Satoshi, 4,700,137, , Cl. 324-322.000.

Yoda, Kiyoshi; Itagaki, Hidenobu; and Fujimura, Satoshi, 4,706,028, Cl. 324-309.000.

Fujimura, Setsuo: *See—*

Matsuura, Yutaka; Sagawa, Masato; and Fujimura, Setsuo, 4,684,406, Cl. 75-244.000.

Fujimura, Shigeki: *See—*

Yoshimura, Shohei; Fujimura, Shigeki; and Sakamoto, Itaru, 4,707,569, Cl. 174-116.000.

Fujimura, Takehiko: *See—*

Maruhashi, Shigeaki; Hoshino, Kazuo; Uematsu, Yoshihiro; Miyakusu, Katsuhisa; and Fujimura, Takehiko, 4,652,428, Cl. 420-42.000.

Fujimura, Toshiaki; Katoh, Yoshio; Imahashi, Satoshi; Seto, Koichi; and Tanaka, Shinichi, to Toyo Boseki Kabushiki Kaisha. Dot-etchable image-containing element useful in lithographic mask formation and its production. 4,699,859, 10-13-87, Cl. 430-18.000.

Fujimura, Yoshihiko; Saitoh, Koichi; and Suemitsu, Yuji, to Fuji Xerox Co., Ltd. Magnetic recording image developing apparatus. 4,686,933, 8-18-87, Cl. 118-623.000.

Fujimura, Yoshihiko: *See—*

Horie, Kiyoshi; Noami, Tsuneo; Masuda, Koji; Saitoh, Koichi; Maruyama, Kazuo; Fujimura, Yoshihiko; Suemitsu, Yuji; and Yamamoto, Toshiro, 4,653,896, Cl. 355-3.0DD.

Saito, Koichi; Fujimura, Yoshihiko; and Inoue, Nanao, 4,710,780, Cl. 346-1.100.

Fujinaga, Shigeki: *See—*

Koyama, Hideo; Asano, Takahiro; Noguchi, Fumio; and Fujinaga, Shigeki, 4,689,756, Cl. 364-513.000.

Fujinami, Hiroshi: *See—*

Otsuki, Hiromi; Matsuura, Ryoichi; Fujinami, Hiroshi; Hori, Shinichi; Nomura, Yoshihisa; and Oka, Hiroyuki, 4,685,749, Cl. 303-116.000.

Takanabe, Kazunori; Yamamoto, Masaki; Ito, Kenzo; and Fujinami, Hiroshi, 4,646,089, Cl. 340-995.000.

Takanabe, Kazunori; Yamamoto, Masaki; Ito, Kenzo; and Fujinami, Hiroshi, 4,675,676, Cl. 340-995.000.

Tsuru, Naohiko; Matsuura, Ryoichi; Otsuki, Hiromi; Fujinami, Hiroshi; Hori, Shinichi; Nomura, Yoshihisa; and Oka, Hiroyuki, 4,636,009, Cl. 303-93.000.

Fujinami, Minpei: *See—*

Saitou, Norio; Ozasa, Susumu; Okumura, Masahide; Ooyama, Mitsuo; Komoda, Tsutomu; Harada, Katsuhiro; Fujinami, Minpei; and Iwadate, Kazumi, 4,692,579, Cl. 250-492.200.

Fujinawa, Hirotaka: *See—*

Sakuma, Shuji; and Fujinawa, Hirotaka, 4,691,718, Cl. 132-84.00R.

Fujinawa, Tomoaki: *See—*

Nohara, Fujio; and Fujinawa, Tomoaki, 4,639,523, Cl. 546-209.000.

Nohara, Fujio; and Fujinawa, Tomoaki, 4,673,747, Cl. 546-334.000.

Nohara, Fujio; and Fujinawa, Tomoaki, 4,710,498, Cl. 514-242.000.

Fujine, Manabu: *See—*

Matsushima, Katsuaki; Fujioka, Yasuhiro; Sasaki, Takeshi; Fujine, Manabu; and Yamamoto, Kouji, 4,640,184, Cl. 98-2.150.

Fujino, Akihiko; Inoue, Manabu; Nakai, Masaaki; and Sekida, Minoru, to Minolta Camera Kabushiki Kaisha. Camera with release control and automatic film sensitivity setting. 4,690,530, 9-1-87, Cl. 354-21.000.

Fujino, Akihiko: *See—*

Inoue, Manabu; Fujino, Akihiko; and Nakai, Masaaki, 4,653,893, Cl. 354-443.000.

Inoue, Manabu; Fujino, Akihiko; Hirano, Masayasu; Nakai, Masaaki; and Yoshida, Fumio, 4,707,104, Cl. 354-412.000.

Kataoka, Akira; Hawai, Yasuo; Fujii, Hidehiko; Oya, Tetsuro; and Fujino, Akihiko, 4,692,010, Cl. 354-273.000.

Mukai, Hiromu; Yamaki, Toshio; Fujino, Akihiko; Izumi, Shuji; Nakai, Masaaki; and Taniguchi, Nobuyuki, 4,705,382, Cl. 354-412.000.

Nakai, Masaaki; Izumi, Shuji; Fujino, Akihiko; Taniguchi, Nobuyuki; Yamaki, Toshio; and Mukai, Hiromu, 4,690,536, Cl. 354-402.000.

Yamaki, Toshio; Mukai, Hiromu; Fujino, Akihiko; Izumi, Shuji; Nakai, Masaaki; and Taniguchi, Nobuyuki, 4,693,581, Cl. 354-400.000.

Fujino, Bonpei: *See—*

Hoshino, Shiro; and Fujino, Bonpei, 4,680,022, Cl. 446-487.000.

Fujino, Hirohisa: *See—*

Aso, Hideo; Fujino, Hirohisa; and Saibe, Seiichi, 4,712,493, Cl. 112-112.000.

Fujino, Hisami: *See—*

Okada, Reisuke; and Fujino, Hisami, 4,661,301, Cl. 264-41.000.

Fujino, Katsuhiro: *See—*

Oie, Masayuki; Ogawa, Satoshi; Sugimoto, Sadao; Yamazaki, Masahiro; and Fujino, Katsuhiro, 4,654,292, Cl. 430-197.000.

Yamazaki, Masahiro; Iizuka, Shigeru; Kamiya, Shigemitsu; Oka, Yoshiro; and Fujino, Katsuhiro, 4,676,404, Cl. 222-56.000.

Fujino, Kazuhiko: *See—*

Ueda, Shuji; Nakada, Kunio; Fujino, Kazuhiko; Saeki, Hiroshi; and Fujishiro, Kenji, 4,656,787, Cl. 51-50.00R.

Fujino, Kenji: *See—*

Terajima, Makoto; and Fujino, Kenji, 4,651,168, Cl. 346-76.0PH.

Fujino, Kiyoharu, to Mitsubishi Monsanto Chemical Company. Process for preparation of alkenylsuccinic anhydrides. 4,691,030, 9-1-87, Cl. 549-255.000.

Fujino, Kiyohiko; Namazue, Hirotoshi; Okuya, Shigetami; Tsutsumi, Shunsaku; Kobayashi, Satoru; and Shimizu, Keiichi, to Kokusan Kinzoku Kogyo Co., Ltd. Radio wave signal controlled door lock arrangement. 4,700,186, 10-13-87, Cl. 340-825.720.

Fujino, Masahiko: *See—*

Miyake, Akio; Kondo, Masahiro; and Fujino, Masahiko, 4,665,065, Cl. 574-202.000.

Fujino, Masahisa, to Canon Kabushiki Kaisha. Electro-magnetically driven shutter. 4,643,553, 2-17-87, Cl. 354-234.100.

Fujino, Masahisa; Fukahori, Hidehiko; and Satoh, Toshihiko, to Canon Kabushiki Kaisha. Camera with motor-driven diaphragm device. 4,681,417, 7-21-87, Cl. 354-234.100.

Fujino, Masato: *See—*

Saito, Yasuaki; Harada, Tooru; and Fujino, Masato, 4,700,015, Cl. 174-50.000.

Fujino, Motoaki: *See—*

Tomita, Tomoya; Hiramoto, Sotozi; Okubo, Takesi; Matsuo, Kuniyuki; Ashihara, Hiromoto; Nakamura, Mitsuo; Takahashi, Tsutomu; Fujino, Motoaki; and Hosaka, Kenji, 4,637,134, Cl. 29-741.000.

Fujino, Takuo; and Sugie, Noboru, to Mitsumi Electric Co., Ltd. Superimposing apparatus. 4,675,737, 6-23-87, Cl. 358-183.000.

- Fujino, Toyomi: *See—*
  - Hasegawa, Norio; Fujino, Toyomi; and Matsubara, Susumu, 4,701,900, Cl. 369-36.000.
- Fujino, Yuji: *See—*
  - Saijo, Akira; Matsune, Fusakiyo; Fujino, Yuji; and Watanabe, Shinji, 4,689,725, Cl. 362-66.000.
- Fujino, Yukio; and Kabaya, Morihiro, to Nishikawa Sangyo Co., Ltd. Bedding incorporating far infrared radiator. 4,680,822, 7-21-87, Cl. 5-421.000.
- Fujino, Yukio: *See—*
  - Maekawa, Taijiro; and Fujino, Yukio, 4,637,947, Cl. 428-68.000.
- Fujinuma, Katsumi; Takase, Tsuneyoshi; and Hayashi, Yoriyuki, to Toyo Cci Kabushiki Kaisha; and Fujinuma, Katsumi. Emergency mask. 4,677,976, 7-7-87, Cl. 128-201.250.
- Fujio, Akihiko; Iwaki, Hiroshi; Tsuboi, Kunio; and Sutoh, Akihiko, to Sanyo Electric Co., Ltd. Developing apparatus. 4,711,551, 12-8-87, Cl. 355-3.0DD.
- Fujio, Junichi: *See—*
  - Hosonuma, Sin; Fujio, Junichi; Tanaka, Kozo; Suzuki, Harue; and Baba, Kenichi, 4,643,529, Cl. 350-337.000.
- Fujio, Masaaki; and Yamamoto, Tetsuhiro, to Fuji Seal Industry Co., Ltd. Film wrapping machine. 4,694,633, 9-22-87, Cl. 53-49.000.
- Fujio, Shunichi: *See—*
  - Ito, Toshio; Fujio, Shunichi; and Taya, Takeyoshi, 4,705,092, Cl. 164-34.000.
- Fujioka, Akira: *See—*
  - Funaki, Masaaki; Ohtani, Noboru; Yoshida, Motoaki; Fujioka, Akira; and Sakiyama, Kazuo, 4,642,266, Cl. 428-412.000.
- Fujioka, Atsushi; Miyadera, Yasuo; and Fukuda, Tomio, to Hitachi Chemical Company, Ltd. Polyamino-bis-maleimide prepolymer, method for manufacture thereof, and method for manufacture of laminate using said prepolymer. 4,707,316, 11-17-87, Cl. 264-135.000.
- Fujioka, Futoshi; Boden, Richard M.; and Schreiber, William L., to International Flavors & Fragrances Inc. Hydroxybornyloxybutanes and organoleptic uses thereof. 4,668,431, 5-26-87, Cl. 252-522.00R.
- Fujioka, Futoshi; Boden, Richard M.; and Schreiber, William L., to International Flavors & Fragrances Inc. Process for augmenting or enhancing the aroma of detergents using mixtures of hydroxybornyloxybutanes. 4,715,981, 12-29-87, Cl. 252-174.110.
- Fujioka, Futoshi: *See—*
  - Sprecker, Mark A.; Schreiber, William L.; Fujioka, Futoshi; Boden, Richard M.; Vock, Manfred H.; Whelan, Patrick; and Hanna, Marie R., 4,636,333, Cl. 252-522.00R.
- Fujioka, George S., to Dow Chemical Company, The. Preparation of (trifluoromethyl)pyridines. 4,650,875, 3-17-87, Cl. 546-345.000.
- Fujioka, George S., to Dow Chemical Company, The. Process for fluorinating halogenated organo-compounds. 4,680,406, 7-14-87, Cl. 546-345.000.
- Fujioka, Hirofumi; and Inoue, Masami, to Paul Forkardt GmbH & Co. KG. Ultra-violet ray curing type resin composition. 4,690,957, 9-1-87, Cl. 522-31.000.
- Fujioka, Hironari: *See—*
  - Yamori, Tsunefumi; Syuku, Sigekazu; and Fujioka, Hironari, 4,647,951, Cl. 346-200.000.
- Fujioka, Hisatake: *See—*
  - Horikawa, Tokio; Sawai, Mitsuaki; Fujioka, Hisatake; Kawashima, Nobumasa; and Yanagawa, Nobuhide, 4,660,668, Cl. 180-19.100.
- Fujioka, Kazumasa: *See—*
  - Higeta, Kazuya; Daikoku, Takahiro; Fujioka, Kazumasa; and Nakajima, Isao, 4,672,392, Cl. 346-76.0PH.
  - Kamohara, Hideaki; Fujioka, Kazumasa; Kobari, Toshiaki; Takahashi, Kunihiro; and Ueda, Shinjiro, 4,664,062, Cl. 118-719.000.
- Fujioka, Kazunori, to Alps Electric Co., Ltd. Motor drive control device. 4,680,517, 7-14-87, Cl. 318-332.000.
- Fujioka, Koichiro: *See—*
  - Yokoyama, Yasuyuki; Nakamura, Kiyoaki; Goi, Hiroshi; and Fujioka, Koichiro, 4,681,313, Cl. 271-273.000.
- Fujioka, Masanobu, to Kokusai Denshin Denwa Co., Ltd. Packet switching system. 4,692,917, 9-8-87, Cl. 370-60.000.
- Fujioka, Tadashi: *See—*
  - Sumida, Yasuji; Kajita, Hiroshi; and Fujioka, Tadashi, 4,671,644, Cl. 355-3.00R.
  - Sumida, Yasuji; Kajita, Hiroshi; and Fujioka, Tadashi, 4,693,586, Cl. 355-3.0SH.
  - Sumida, Yasuji; Kajita, Hiroshi; and Fujioka, Tadashi, 4,711,550, Cl. 355-3.0SH.
- Fujioka, Takashi: *See—*
  - Naoi, Takashi; Fujioka, Takashi; Okamura, Hisashi; and Satake, Masaki, 4,710,456, Cl. 430-564.000.
- Fujioka, Utarou: *See—*
  - Nomura, Misao; and Fujioka, Utarou, 4,662,464, Cl. 177-229.000.
- Fujioka, Yasuhiro: *See—*
  - Matsushima, Katsuaki; Fujioka, Yasuhiro; Sasaki, Takeshi; Fujine, Manabu; and Yamamoto, Kouji, 4,640,184, Cl. 98-2.150.
- ujioka, Yoshihide; Harada, Shigeyuki; Ohba, Toshihiro; Kanatani, Yoshiharu; and Uede, Hisashi, to Sharp Kabushiki Kaisha. Thin-film EL display panel drive circuit with voltage compensation. 4,686,426, 8-11-87, Cl. 315-169.300.
- ujioka, Yoshiki; and Hirota, Mitsuhiko, to Fanuc Ltd. Plural motor changeover control system. 4,641,069, 2-3-87, Cl. 318-625.000.
- ujioka, Yoshiki; and Shinohara, Tatsuo, to Fanuc Ltd. High-frequency noise absorbing circuit. 4,651,266, 3-17-87, Cl. 363-39.000.
- ujioka, Yoshiki; and Kouno, Shinichi, to Fanuc Ltd. Induction motor digital control system. 4,672,287, 6-9-87, Cl. 318-800.000.
- ujioka, Yoshiki, to Fanuc Ltd. AC motor control panel. 4,677,540, 6-30-87, Cl. 363-144.000.
- Fujioka, Yoshiki; and Tokuoka, Hiroshi, to Fanuc Ltd. Mounting structure for spindle orientation magnetic sensor system. 4,703,262, 10-27-87, Cl. 324-208.000.
- Fujioka, Yoshisato, to Ricoh Company, Ltd. Lens system capable of converting focal length by addition of a lens. 4,634,235, 1-6-87, Cl. 350-422.000.
- Fujirebio Kabushiki Kaisha: *See—*
  - Ashihara, Yoshihiro; and Kasahara, Yasushi, 4,692,404, Cl. 435-5.000.
  - Kasahara, Yasushi; Ashihara, Yoshihiro; and Suzuki, Hiromasa, 4,649,105, Cl. 435-5.000.
  - Kutsuma, Teruo; Ikawa, Hiroshi; and Sato, Yoshiaki, 4,672,068, Cl. 514-336.000.
  - Sato, Takashi; Kubo, Emiko; and Kayashima, Takako, 4,716,108, Cl. 435-7.000.
- Fujirex Company, Ltd.: *See—*
  - Fujisawa, Kunio; Tanaka, Toyoji; Mochizuki, Toshio; Nakamura, Norio; and Kaya, Seiji, 4,637,711, Cl. 355-72.000.
  - Fujisawa, Kunio; Tanaka, Toyoji; Mochizuki, Toshio; Nakamura, Norio; and Kaya, Seiji, 4,694,748, Cl. 101-401.100.
- Fujisaka, Takahiko: *See—*
  - Kirimoto, Tetsuo; Kondo, Michimasa; and Fujisaka, Takahiko, 4,656,479, Cl. 342-94.000.
- Fujisaki, Hisashi, to NEC Corporation. Noise-free terminal station compatible with existing master stations. 4,716,584, 12-29-87, Cl. 379-176.000.
- Fujisaki, Kiyonori; and Kobayashi, Toshio. Structure of electric motor and production method thereof. 4,684,839, 8-4-87, Cl. 310-154.000.
- Fujisaki, Kiyonori; Kobayashi, Toshio; and Kato, Heihachi. Small sized fan motor. 4,686,400, 8-11-87, Cl. 310-67.00R.
- Fujisaki, Koichiro: *See—*
  - Ohashi, Ryota; Kawamura, Masahisa; and Fujisaki, Koichiro, 4,643,442, Cl. 280-461.00A.
- Fujisaki, Koji: *See—*
  - Numata, Shun-ichi; Fujisaki, Koji; Kinjo, Noriyuki; Imaizumi, Junichi; and Mikami, Yoshikatsu, 4,690,999, Cl. 528-188.000.
- Fujisaki, Tadashi: *See—*
  - Sugita, Minoru; Nakatsuji, Teruyuki; Fujisaki, Tadashi; Hiraga, Hisao; Nishimoto, Takashi; and Futagawa, Minoru, 4,706,430, Cl. 52-309.160.
- Fujisaki, Yoshihisa: *See—*
  - Chinone, Naoki; Tsuji, Shinji; Fujisaki, Yoshihisa; Kashiwada, Yasutoshi; and Hirao, Motohisa, 4,665,528, Cl. 372-96.000.
  - Shukuri, Shoji; Tamura, Masao; Wada, Yasuo; and Fujisaki, Yoshihisa, 4,716,127, Cl. 437-27.000.
- Fujisaku, Kiminori; Awaga, Makoto; and Mori, Shosuke, to Fujitsu Limited. Combined graphic and textual display system. 4,684,935, 8-4-87, Cl. 340-717.000.
- Fujisawa, Hakubun: *See—*
  - Nishiura, Masaharu; Fujisawa, Hakubun; and Yamada, Katsumi, 4,658,132, Cl. 250-231.0SE.
- Fujisawa, Hideya: *See—*
  - Abe, Tomoaki; Fujisawa, Hideya; Omori, Norio; Kinugawa, Masumi; Ito, Katsunori; Akiyama, Susumu; Mizuno, Tiaki; and Yamada, Toshitaka, 4,713,765, Cl. 364-431.050.
  - Miyaki, Masahiko; and Fujisawa, Hideya, 4,656,990, Cl. 123-494.000.
- Fujisawa, Hiromichi; Nakano, Yasuaki; Komatsu, Hitoshi; Kadota, Shozo; and Kurino, Kiyomichi, to Hitachi, Ltd. System and method for segmentation and recognition of patterns. 4,654,873, 3-31-87, Cl. 382-9.000.
- Fujisawa, Hiroshi: *See—*
  - Yamada, Toshiro; Fujisawa, Hiroshi; Goto, Kuniaki; Morimoto, Shigeo; Adachi, Takashi; and Watanabe, Yoshiaki, 4,668,776, Cl. 536-7.400.
- Fujisawa, Kunio; Tanaka, Toyoji; Mochizuki, Toshio; Nakamura, Norio; and Kaya, Seiji, to Fujirex Company, Ltd. Process for rolling a drum with a photosensitive film. 4,637,711, 1-20-87, Cl. 355-72.000.
- Fujisawa, Kunio; Tanaka, Toyoji; Mochizuki, Toshio; Nakamura, Norio; and Kaya, Seiji, to Fujirex Company, Limited. Device for moving offset plates. 4,694,748, 9-22-87, Cl. 101-401.100.
- Fujisawa, Kyohei: *See—*
  - Yamada, Mitsuhiko; Fujisawa, Kyohei; and Kitamura, Hideaki, 4,692,796, Cl. 358-76.000.
- Fujisawa, Kyuichi, to Alps Electric Co., Ltd. Paper feed mechanism for recording apparatus. 4,636,100, 1-13-87, Cl. 400-662.000.
- Fujisawa, Masayasu, to Hitachi, Ltd. Method and apparatus for severing wafers. 4,712,535, 12-15-87, Cl. 125-13.00R.
- Fujisawa, Naoki, to Toyota Jidosha Kabushiki Kaisha. Console box for automobile. 4,690,448, 9-1-87, Cl. 296-37.800.
- Fujisawa, Norio: *See—*
  - Yamaura, Mitsuru; and Fujisawa, Norio, 4,695,931, Cl. 363-8.000.
- Fujisawa, Noriyoshi: *See—*
  - Sano, Tomohiko; Fujisawa, Noriyoshi; Fukuda, Masataka; and Suganuma, Tsuyoshi, 4,707,292, Cl. 252-174.160.
- Fujisawa Pharmaceutical Co., Ltd.: *See—*
  - Abe, Hiroshi; Shichiri, Motoaki; Kawamori, Ryuzo; Ichoh, Tasuku; Iwatani, Kenji; Higuchi, Mamoru; Takagi, Kiyotaka; Okamoto, Norihiko; and Okudaira, Toshiyuki, 4,636,144, Cl. 417-63.000.
  - Ezaki, Masami; Hashimoto, Seiji; Komori, Tadaaki; Umehara, Kazuyoshi; and Kohsaka, Masanobu, 4,654,211, Cl. 424-116.000.
  - Hashimoto, Masashi; Aratani, Matsuhiko; and Sawada, Kozo, 4,640,915, Cl. 514-210.000.
  - Hata, Takehisa; Kanagawa, Nobuto; Morishita, Takashi; and Suzuki, Toshiyuki, 4,690,816, Cl. 424-456.000.

  Kitaura, Yoshihiko; Oku, Teruo; Hirai, Hideo; Yamamoto, Tosiyuki; and Hashimoto, Masashi, 4,650,804, Cl. 514-306.000.

  Kitaura, Yoshihiko; Nakaguchi, Osamu; Hemmi, Keiji; Aratani, Matsuhiko; Takeno, Hidekazu; Okada, Satoshi; Tanaka, Hirokazu; Hashimoto, Masashi; Kuroda, Yoshio; Iguchi, Eiko; Kohsaka, Masanobu; Aoki, Hatsuo; and Imanaka, Hiroshi, 4,666,890, Cl. 514-18.000.

  Kitaura, Yoshihiko; Oku, Teruo; Hirai, Hideo; Yamamoto, Tosiyuki; and Hashimoto, Masashi, 4,698,349, Cl. 514-306.000.

  Kiyoto, Sumio; Murai, Hidetsugu; Tsurumi, Yasuhisa; Terano, Hiroshi; and Kohsaka, Masanobu, 4,670,259, Cl. 424-118.000.

  Kiyoto, Sumio; Okuhara, Masakuni; Kino, Eiko; Tanaka, Hirokazu; Aoki, Hatsuo; Kohsaka, Masanobu; and Imanaka, Hiroshi, 4,680,178, Cl. 424-122.000.

  Kohsaka, Masanobu; Terano, Hiroshi; Komori, Tadaaki; Iwami, Morita; Yamashita, Michio; Hashimoto, Masashi; Uchida, Itsuo; and Takase, Shigehiro, 4,645,765, Cl. 514-233.000.

  Mine, Yasuhiro; and Yokota, Yoshiko, 4,666,889, Cl. 514-18.000.

  Morishita, Takashi; Hata, Takehisa; Mori, Mitio; and Tanoue, Shohachi, 4,695,466, Cl. 424-456.000.

  Nakaguti, Osamu; Shimazaki, Norihiko; Kawai, Yoshio; Hashimoto, Masashi; and Nakatuka, Michie, 4,694,004, Cl. 514-228.000.

  Nishikawa, Motoaki; Iwami, Morita; Yoshida, Keizo; and Kohsaka, Masanobu, 4,661,352, Cl. 424-117.000.

  Okuda, Kiyoshi; and Aoi, Renji, 4,654,206, Cl. 424-480.000.

  Takaya, Takao; Takasugi, Hisashi; Yamanaka, Hideaki; Miyai, Kenji; and Inoue, Yoshikazu, 4,639,448, Cl. 514-226.000.

  Takaya, Takao; Takasugi, Hisashi; and Yamanaka, Hideaki, 4,649,136, Cl. 514-202.000.

  Takaya, Takao; Murata, Masayoshi; and Ito, Kiyotaka, 4,649,142, Cl. 514-274.000.

  Takaya, Takao; and Takasugi, Hisashi, 4,649,146, Cl. 514-307.000.

  Takaya, Takao; Yasuda, Nobuyoshi; Tsutsumi, Hideo; and Matsuda, Keiji, 4,656,160, Cl. 514-41.000.

  Takaya, Takao; Takasugi, Hisashi; Tsuji, Kiyoshi; and Chiba, Toshiyuki, 4,698,337, Cl. 514-206.000.

  Takaya, Takao; Takasugi, Hisashi; Kuno, Atsushi; and Sugiyama, Yoshie, 4,698,340, Cl. 514-222.000.

  Takaya, Takao; Takasugi, Hisashi; Masugi, Takashi; Yamanada, Hideaki; and Kawabata, Kohji, 4,705,851, Cl. 540-215.000.

  Teraji, Tsutomu; Kawada, Kazushige; Takeuchi, Toru; Sugita, Shinichi; Adachi, Toshikazu; and Yaqi, Hideo, 4,650,522, Cl. 106-314.000.

  Teraji, Tsutomu; Sakane, Kazuo; and Goto, Jiro, 4,654,422, Cl. 548-115.000.

  Ueda, Ikuo; Shiokawa, Youichi; and Manabe, Takashi, 4,673,676, Cl. 514-267.000.

  Ueda, Ikuo; Shiokawa, Youichi; Manabe, Takashi; and Katsura, Yousuke, 4,675,324, Cl. 514-293.000.

  Ueda, Ikuo; Shiokawa, Youichi; Kato, Masayuki; Konishi, Nobukiyo; and Akahane, Atsushi, 4,686,227, Cl. 514-292.000.

  Ueda, Ikuo; Shiokawa, Youichi; Manabe, Takashi; and Katsura, Yousuke, 4,692,444, Cl. 514-406.000.

  Ueda, Ikuo; Kobayashi, Masakazu; and Kitaguchi, Tadashi, 4,703,046, Cl. 514-202.000.

  Ueda, Ikuo; and Kato, Masayuki, 4,705,787, Cl. 514-259.000.

  Uemura, Toshinobu; Okhuma, Toshiaki; Shinooka, Kiyohide; Ishikuro, Hiroshi; and Ueda, Yoshio, 4,690,822, Cl. 424-455.000.

  Uemura, Toshinobu; Shinooka, Kiyohide; and Kajiho, Tokuaki, 4,695,467, Cl. 424-502.000.

  Umehara, Kazuyoshi; Yoshida, Keizo; Tanaka, Hirokazu; Uchida, Itsuo; Kohsaka, Masanobu; and Imanaka, Hiroshi, 4,643,990, Cl. 514-18.000.

  Umio, Suminori; Kamimura, Toshiaki; Kamishita, Takuzo; and Mine, Yasuhiro, 4,636,520, Cl. 514-399.000.

  Yamashita, Tatsuo; Terada, Masafumi; and Suzuki, Koji, 4,696,895, Cl. 435-7.000.

Fujisawa, Yoichi; and Hasumi, Hiroaki, to Honda Giken Kogyo Kabushiki Kaisha. Oil cooler apparatus in motorized two-wheeled vehicle. 4,662,470, 5-5-87, Cl. 180-219.000.

Fujisawa, Yoshiaki: *See—*

  Akazawa, Naoki; Nishi, Kazuhiko; Kawakami, Naoya; Fujisawa, Yoshiaki; and Yamada, Noriyoshi, 4,706,470, Cl. 62-209.000.

Fujise, Masakuni, to Tokyo Shibaura Denki Kabushiki Kaisha. Computed tomography apparatus. 4,641,328, 2-3-87, Cl. 378-8.000.

Fujise, Masayuki: *See—*

  Iwamoto, Yoshinao; Shirasaki, Yuichi; Fujise, Masayuki; and Asakawa, Kenichi, 4,637,686, Cl. 350-96.290.

Fujishige, Masao; Yokokawa, Harumi; Ujiie, Seiichi; and Dokiya, Masayuki, to Agency of Industrial Science and Technology. Method of refining aluminum. 4,681,626, 7-21-87, Cl. 75-68.00A.

Fujishige, Sadao, to Kabushiki Kaisha Sankyo Seiki Seisakusho. Magnetic recording/reproducing apparatus. 4,669,007, 5-26-87, Cl. 360-97.000.

Fujishima, Akira: *See—*

  Matsushita, Seiji; Fujishima, Akira; Arika, Isao; and Nakamura, Joji, 4,675,634, Cl. 334-15.000.

Fujishima, Daishiro; and Fujishima, Shinichiro. Disoxidant composition. 4,711,741, 12-8-87, Cl. 252-188.280.

Fujishima, Kazuyasu; Shimotori, Kazuhiro; Ozaki, Hideyuki; Miyatake, Hideshi; and Tomisato, Masahiro, to Mitsubishi Denki Kabushiki Kaisha. Semiconductor memory device with a laser programmable redundancy circuit. 4,658,379, 4-14-87, Cl. 365-200.000.

Fujishima, Kazuyasu: *See—*

  Kumanoya, Masaki; Fujishima, Kazuyasu; Miyatake, Hi
  Hidaka, Hideto; Dosaka, Katsumi; and Yoshihara, Tsut
  4,675,850, Cl. 365-230.000.

  Kumanoya, Masaki; Fujishima, Kazuyasu; Miyatake, Hi
  Hidaka, Hideto; Dosaka, Katsumi; and Nishimura, Yasu
  4,692,901, Cl. 365-201.000.

  Kumanoya, Masaki; Fujishima, Kazuyasu; Dosaka, Kat
  Hidaka, Hideto; Miyatake, Hideshi; and Yoshihara, Tsut
  4,710,901, Cl. 365-190.000.

  Miyatake, Hideshi; Fujishima, Kazuyasu; and Shimotori, Kazu
  4,694,432, Cl. 365-203.000.

  Miyatake, Hideshi; Fujishima, Kazuyasu; Yoshihara, Tsut
  Kumanoya, Masaki; Hidaka, Hideto; and Dosaka, Kats
  4,712,123, Cl. 357-23.600.

  Nishimura, Yasumasa; Fujishima, Kazuyasu; and Kuman
  Masaki, 4,672,582, Cl. 365-201.000.

  Shimotori, Kazuhiro; Fujishima, Kazuyasu; Ozaki, Hideyuki;
  Miyatake, Hideshi, 4,641,286, Cl. 365-230.000.

Fujishima, Nobuichi; Nakano, Hideharu; and Ochi, Shuhei, to M
shita Electric Works, Ltd. Portable electric hair dryer with ele
shock protection circuit. 4,687,906, 8-18-87, Cl. 219-364.000.

Fujishima, Satoru: *See—*

  Ogawa, Toshio; Fujishima, Satoru; and Ando, Akira, 4,649,313,
  310-358.000.

Fujishima, Shinichiro: *See—*

  Fujishima, Daishiro; and Fujishima, Shinichiro, 4,711,741,
  252-188.280.

Fujishima, Shizu; Yaku, Fumiko; and Koshijima, Tetsuo, to Agenc
Industrial Science and Technology. Process for the saccharifica
of celluloses. 4,713,334, 12-15-87, Cl. 435-99.000.

Fujishima, Tooru: *See—*

  Miura, Yoshio; Takayama, Chiharu; Fujishima, Tooru; O
  Masuo; Kawashima, Tooru; and Kudo, Yoshimichi, 4,669,
  Cl. 369-44.000.

Fujishiro, Kenji: *See—*

  Ueda, Shuji; Nakada, Kunio; Fujino, Kazuhiko; Saeki, Hiroshi;
  Fujishiro, Kenji, 4,656,787, Cl. 51-50.00R.

Fujishiro, Kinya: *See—*

  Uwajima, Takayuki; Fujishiro, Kinya; and Takayama, Kenich
  4,666,842, Cl. 435-189.000.

Fujishiro, Takeshi; Takahashi, Sadahiro; and Kaneko, Takanobu,
Nissan Motor Company, Limited. Automotive suspension syst
with variable damping characteristics. 4,696,489, 9-29-87,
280-707.000.

Fujishiro, Yuji, to Kabushiki Kaisha Tokyo Kikai Seisakusho. Turn
bar-less folding machine of W-width rotary press. 4,671,501, 6-9
Cl. 270-21.100.

Fujisige, Akihito, to Matsushita Electric Industrial Co., Ltd. Wh
balance correcting device. 4,667,224, 5-19-87, Cl. 358-29.000.

Fujisoku Electric Co., Ltd.: *See—*

  Yano, Takashi; and Yoneyama, Yasuo, 4,683,352, Cl. 200-6.00R

Fujita, Akihiro: *See—*

  Tano, Touru; Fujita, Akihiro; and Utsumi, Takayuki, 4,668,068,
  354-403.000.

  Tano, Touru; Fujita, Akihiro; and Utsumi, Takayuki, 4,692,012,
  354-403.000.

Fujita, Akihisa: *See—*

  Kuromaru, Hiroshi; Morimoto, Tadakiyo; Kuwahara, K
  Fujiwara, Kenji; Shimizu, Yujiro; Miyauchi, Reizo; Wakusa
  Kuniaki; Takama, Hideaki; Waseda, Masashi; and Fu
  Akihisa, 4,667,551, Cl. 83-72.000.

Fujita, Akira; and Shimizu, Kyoichi, to Victor Company of Japan, L
Video signal processing apparatus for processing a video sig
which is transmitted in accordance with a dot interlaced schann
system and inputted thereto. 4,639,782, 1-27-87, Cl. 358-166.000.

Fujita, Akira: *See—*

  Shimizu, Kyoichi; and Fujita, Akira, 4,649,438, Cl. 358-337.00

Fujita, Etsumi: *See—*

  Kojima, Yuichi; Fujita, Etsumi; and Hideshima, Yasuh
  4,646,327, Cl. 375-60.000.

  Toyoshima, Masakatsu; Hideshima, Yasuhiro; and Fujita, Etsu
  4,684,981, Cl. 358-86.000.

Fujita, Haruyasu; Ogawa, Masao; and Honma, Kenji, to Honda Gi
Kogyo Kabushiki Kaisha. Vehicle body inclining apparatus of v
cle. 4,650,213, 3-17-87, Cl. 280-772.000.

Fujita, Haruyasu; Honma, Kenji; and Ogawa, Masao, to Honda Gi
Kogyo Kabushiki Kaisha. Suspension apparatus for vehi
4,659,106, 4-21-87, Cl. 280-772.000.

Fujita, Haruyasu; Ogawa, Masao; and Suzuki, Takahisa, to Ho
Giken Kogyo Kabushiki Kaisha. Suspension apparatus of vehi
4,685,690, 8-11-87, Cl. 280-112.00A.

Fujita, Hideo; Saito, Yuichi; and Miura, Masatoshi, to TDK Electro
Co., Ltd. Piezo-electric transducer. 4,638,205, 1-20-87,
310-312.000.

Fujita, Hiroo, to Citizen Watch Co., Ltd. Surface condition meas
ment apparatus. 4,650,330, 3-17-87, Cl. 356-349.000.

Fujita, Hiroo, to Citizen Watch Co., Ltd. Micro-dimensional meas
ment apparatus. 4,679,941, 7-14-87, Cl. 356-384.000.

Fujita, Hiroshi; and Sumida, Naoto, to Osaka University. Method
amorphizing a material by means of injection of exotic atoms in
solid with electron beams. 4,668,527, 5-26-87, Cl. 427-35.000.

Fujita, Hiroshi; and Sumida, Naoto, to Osaka University. Method
injecting exotic atoms into a solid with electron beams. 4,670,
6-2-87, Cl. 427-35.000.

Fujita, Hiroshi: *See—*
- Imai, Tetsuya; Fujita, Hiroshi; Koikeda, Minoru; and Suzuki, Takashi, 4,698,449, Cl. 585-469.000.
- Komatsu, Masao; and Fujita, Hiroshi, 4,637,927, Cl. 423-644.000.
- Komatsu, Masao; and Fujita, Hiroshi, 4,639,363, Cl. 423-644.000.
- Mori, Hirotaro; and Fujita, Hiroshi, 4,670,291, Cl. 427-35.000.

Fujita, Hiroya: *See—*
- Horio, Kimihide; Kikuchi, Yasunobu; and Fujita, Hiroya, 4,658,769, Cl. 123-90.310.
- Yasukawa, Masao; Morita, Shuji; and Fujita, Hiroya, 4,688,441, Cl. 74-409.000.

Fujita, Hiroyuki: *See—*
- Matsumoto, Goro; Shimizu, Koichi; and Fujita, Hiroyuki, 4,668,094, Cl. 356-376.000.

Fujita, Hisao; Yamazaki, Hiroyuki; and Wakabayashi, Tomoko, to Konishiroku Photo Industry Co., Ltd. Wide angle lens. 4,688,903, 8-25-87, Cl. 350-432.000.

Fujita, Hisayoshi: *See—*
- Niwa, Kensuke; Fujita, Hisayoshi; Saito, Yoshihiko; Makihara, Hiroshi; Hashimoto, Ritsuo; Hoshi, Younosuke; and Murayama, Katsutoshi, 4,705,654, Cl. 261-128.000.

Fujita, Isao; and Shirai, Takashi, to Horiba, Ltd. Reference electrode for high pressure liquid. 4,659,451, 4-21-87, Cl. 204-435.000.

Fujita, Jiro; and Yamane, Iwao, to Mitsubishi Denki Kabushiki Kaisha. Automatic sewing apparatus. 4,635,574, 1-13-87, Cl. 112-121.120.

Fujita, Katsufusa, to Mitsui High-Tec, Inc. Method of forming a lead frame. 4,704,187, 11-3-87, Cl. 156-645.000.

Fujita, Katsuto: *See—*
- Nagata, Tsuyoshi; and Fujita, Katsuto, 4,660,501, Cl. 118-203.000.
- Nagata, Tsuyoshi; and Fujita, Katsuto, 4,707,613, Cl. 250-572.000.

Fujita, Katuyuki: *See—*
- Shibahashi, Yutaka; Nakasuji, Norikazu; Kataoka, Takashi; Inagaki, Hiroshi; Kito, Tutomu; Ozaki, Masaharu; Matunami, Nobuaki; Ishimura, Naoya; and Fujita, Katuyuki, 4,681,791, Cl. 428-96.000.

Fujita, Kazuhiro: *See—*
- Sumida, Takashi; Sasaki, Sigeo; Ketori, Takao; and Fujita, Kazuhiro, 4,635,879, Cl. 242-198.000.
- Sumida, Takashi; Sasaki, Sigeo; Ketori, Takao; Fujita, Kazuhiro; and Ogiro, Kenji, 4,660,784, Cl. 242-198.000.

Fujita, Kazuo: *See—*
- Sakimoto, Seiichiro; Fujita, Kazuo; Yamauchi, Yutaka; and Matsue, Hiroshi, 4,678,710, Cl. 428-407.000.

Fujita, Kenji; Kawase, Katsumi; and Takigawa, Noboru, to Sumitomo Heavy Industries, Ltd. Method of and apparatus for washing airplanes. 4,654,087, 3-31-87, Cl. 134-6.000.

Fujita, Kenji: *See—*
- Takigawa, Noboru; Fujita, Kenji; Kawase, Katsumi; and Higaki, Takahiro, 4,668,301, Cl. 134-6.000.

Fujita, Kenjiro; and Takiura, Yasuro, to Yokogawa Medical Systems, Limited. Computer tomography system wherein preprocessing, convolution and back projection computations are performed prior to external data storage. 4,654,797, 3-31-87, Cl. 364-414.000.

Fujita, Kinya. Orthodontic appliance. 4,655,708, 4-7-87, Cl. 433-10.000.

Fujita, Koei; and Aimono, Yuji, to Hitachi Chemical Company, Ltd. Process for producing semiconductor element. 4,663,190, 5-5-87, Cl. 427-82.000.

Fujita, Koichi, to Mitsubishi Petrochemical Co., Ltd. Process for producing mixed tertiary amine oxide. 4,650,904, 3-17-87, Cl. 564-298.000.

Fujita, Kouichi, to Fujitsu Limited. Amplitude stabilized crystal oscillator. 4,651,113, 3-17-87, Cl. 331-109.000.

Fujita, Kouichi: *See—*
- Shirato, Takehide; and Fujita, Kouichi, 4,677,314, Cl. 307-270.000.

Fujita, Kunihiro; and Tanaka, Hideaki, to Mitsuboshi Belting Ltd. V-belt for high load power transmission. 4,682,973, 7-28-87, Cl. 474-263.000.

Fujita, Kunihiro: *See—*
- Mashimo, Satoshi; Fujita, Kunihiro; Tanaka, Masayuki; Yamaguchi, Yoshio; and Takeda, Kazuhiro, 4,715,176, Cl. 57-251.000.

Fujita, Masaaki; Sasaki, Mikio; Goto, Teruo; and Yamaguchi, Namio, to Matsushita Electric Industrial Co., Ltd. Control unit including a circuit for controlling and setting control data for a digital processing circuit of a color television receiver. 4,644,349, 2-17-87, Cl. 340-825.250.

Fujita, Masafumi: *See—*
- Saijo, Takao; and Fujita, Masafumi, 4,693,591, Cl. 355-41.000.

Fujita, Masahiro; and Uemura, Yukio, to Nissan Motor Co., Ltd.; and Maeda Metal Industries, Ltd. Rotary power tool. 4,650,007, 3-17-87, Cl. 173-12.000.

Fujita, Masahiro, to Sony Corporation. Decoder for spectrum diffusion signals. 4,651,327, 3-17-87, Cl. 375-1.000.

Fujita, Masahiro; and Uemura, Yukio, to Maeda Metal Industries Ltd.; and Nissan Motor Co., Ltd. Bolt-nut tightening device having means for preventing abnormal rotation. 4,691,786, 9-8-87, Cl. 173-12.000.

Fujita, Masahiro: *See—*
- Hori, Katsuya; and Fujita, Masahiro, 4,689,626, Cl. 342-357.000.

Fujita, Masahito; Kizaki, Masami; Miyazaki, Makoto; and Inaba, Naomi, to Toa Nenryo Kogyo Kabushiki Kaisha. Process for polymerization of olefins. 4,634,687, 1-6-87, Cl. 502-121.000.

Fujita, Masahito; Miyazaki, Makoto; Kizaki, Masami; Nagashima, Yukio; and Shimbori, Yuichi, to Toa Nenryo Kogyo Kabushiki Kaisha. Catalyst component for polymerization of olefins. 4,678,768, 7-7-87, Cl. 502-119.000.

Fujita, Masahito; Kizaki, Masami; Miyazaki, Makoto; and Inaba, Naomi, to Toa Nenryo Kogyo Kabushiki Kaisha. Process for polymerization of olefins. 4,716,206, 12-29-87, Cl. 526-139.000.

Fujita, Masaki: *See—*
- Katayama, Hiroyuki; Ishikawa, Hidetake; Kuwabara, Masatoshi; Kajioka, Hiroyuki; Fujita, Masaki; Shibata, Kenji; Tamura, Yoshiaki; and Shimanuki, Takashi, 4,662,937, Cl. 75-80.000.

Fujita, Minoru, to Yamaha Hatsudoki Kabushiki Kaisha. Governor for small size vehicle. 4,709,675, 12-1-87, Cl. 123-376.000.

Fujita, Minoru: *See—*
- Kato, Yoshitake; Fujita, Minoru; and Maruyama, Hiroshi, 4,714,973, Cl. 360-133.000.

Fujita, Mitsuo: *See—*
- Fukuda, Hisatoshi; and Fujita, Mitsuo, 4,646,153, Cl. 358-167.000.

Fujita, Munehisa; and Mitsui, Akio, to Fuji Photo Film Co., Ltd. Color photographic material with light insensitive silver chloride. 4,640,890, 2-3-87, Cl. 430-504.000.

Fujita, Nobuya, to Noritsu Kenkyu Center Co., Ltd. Conveyance apparatus for a strip of photosensitive material. 4,666,279, 5-19-87, Cl. 354-320.000.

Fujita, Norihiko: *See—*
- Tamura, Takaaki; Fujita, Norihiko; Kawanishi, Toshio, and Matsuura, Chihiro, 4,652,537, Cl. 502-5.000.

Fujita, Reiko; and Enda, Masami, to Kabushiki Kaisha Toshiba. Method for production of decontaminating liquid. 4,701,246, 10-20-87, Cl. 204-130.000.

Fujita, Reiko: *See—*
- Enda, Masami; Fujita, Reiko; Morisue, Tetsuo; and Hasegawa, Yutaka, 4,663,085, Cl. 252-626.000.

Fujita, Ryo: *See—*
- Fukunaga, Yasushi; and Fujita, Ryo, 4,646,073, Cl. 340-709.000.

Fujita, Ryoji: *See—*
- Yano, Isamu; Fujita, Ryoji; and Kitakoga, Hidetoshi, 4,633,734, Cl. 74-552.000.

Fujita, Sadao: *See—*
- Shikada, Minoru; Yamazaki, Shuntaro; and Fujita, Sadao, 4,700,352, Cl. 372-20.000.

Fujita, Satoshi: *See—*
- Murakami, Susumu; and Fujita, Satoshi, 4,666,336, Cl. 405-138.000.

Fujita, Shigeru; Banzai, Hideo; and Tanaka, Hideo, to Toshiba Kikai Kabushiki Kaisha. Injection pressure monitoring method and apparatus. 4,680,151, 7-14-87, Cl. 264-40.300.

Fujita, Shigeru; Banzai, Hideo; and Takada, Makoto, to Toshiba Kikai Kabushiki Kaisha. Monitoring data display method and device. 4,695,965, 9-22-87, Cl. 364-518.000.

Fujita, Shigeru, to Mitsubishi Denki Kabushiki Kaisha. Temperature varying optical measurement device. 4,700,064, 10-13-87, Cl. 250-231.00R.

Fujita, Shigeto: *See—*
- Oomori, Tatsuo; Ono, Kouichi; and Fujita, Shigeto, 4,710,937, Cl. 372-53.000.
- Ueda, Yoshihiro; Ono, Kouichi; Oomori, Tatsuo; and Fujita, Shigeto, 4,692,627, Cl. 250-423.00P.
- Ueda, Yoshihiro; Ono, Kouichi; Oomori, Tatsuo; and Fujita, Shigeto, 4,716,295, Cl. 250-423.00P.

Fujita, Shigeyoshi; Saski, Tomoyuki; Fukuhara, Kazuyoshi; and Nishikawa, Hirohsi, to Daifuku Co., Ltd. Cart type conveying apparatus. 4,671,183, 6-9-87, Cl. 104-93.000.

Fujita, Shinichiro: *See—*
- Mochizuki, Asahi; Ozawa, Akira; Fujita, Shinichiro; and Yamada, Kuniaki, 4,696,446, Cl. 246-169.00S.

Fujita, Shuji: *See—*
- Fujihara, Masaaki; Fujii, Ikunori; and Fujita, Shuji, 4,709,644, Cl. 112-237.000.

Fujita, Susumu; and Konagaya, Masahiko, to Fuji Photo Film Co., Ltd. Automatic focusing device equipped with close-up range focal control. 4,660,954, 4-28-87, Cl. 354-403.000.

Fujita, Tadahiro: *See—*
- Petty, Terry D.; Costello, Carmon R.; Song, Kun K.; Chabot, Luc G.; Fujita, Tadahiro; Hirose, Haruki; and Yoshimura, Nobutoshi, 4,639,167, Cl. 405-217.000.

Fujita, Tadao: *See—*
- Yoshinaka, Tadaaki; Fujita, Tadao; and Yoshida, Teruyuki, 4,700,239, Cl. 358-310.000.

Fujita, Tadashi: *See—*
- Abe, Fumio; Hasegawa, Hiroshi; Fujita, Tadashi; and Maeda, Makoto, 4,673,349, Cl. 431-328.000.
- Abe, Fumio; and Fujita, Tadashi, 4,689,150, Cl. 210-490.000.

Fujita, Taiji: *See—*
- Ohzono, Kohei; Saito, Mitsuru; Hayashi, Kiyotaka; and Fujita, Taiji, 4,673,379, Cl. 474-28.000.

Fujita, Takashi; Goto, Yuko; and Nishikawa, Kenji, to Suntory Limited. Transparent liquid container bottle with tinted label and base cup. 4,658,974, 4-21-87, Cl. 215-12.00R.

Fujita, Takashi: *See—*
- Matsuura, Mitsuyuki; and Fujita, Takashi, 4,703,026, Cl. 502-119.000.
- Shiraishi, Yasuhisa; Fujita, Takashi; Ochi, Yoshiharu; Hirose, Masahiko; Ichihara, Katsutarou; and Ishigami, Takashi, 4,634,635, Cl. 428-446.000.

Fujita, Takeshi; and Kataoka, Hironori, to Dai-Ichi Kogyo Seiyaku Co., Ltd. Oily phase dispersions employing an oil-miscible dispersing agent. 4,711,734, 12-8-87, Cl. 252-52.00A.

Fujita, Takeshi: *See—*
- Meguro, Kanji; and Fujita, Takeshi, 4,687,777, Cl. 514-342.000.

- Fujita, Teruo; Kono, Keizo; Kondo, Mitsushige; and Shikama, Shinsuke, to Mitsubishi Denki Kabushiki Kaisha. Focusing error detecting device in head assembly for optical disc. 4,672,187, 6-9-87, Cl. 250-201.000.
- Fujita, Tetsuya: *See—*
  - Konno, Tetsuro; Kanai, Yutaka; and Fujita, Tetsuya, 4,678,313, Cl. 355-3.00R.
- Fujita, Toshihiro; Ishizuka, Satoshi; Fujito, Katsuyuki; and Sato, Hisanao, to Matsushita Electric Industrial Co., Ltd. Oscillation frequency stabilized semiconductor laser. 4,677,630, 6-30-87, Cl. 372-32.000.
- Fujita, Toshiji: *See—*
  - Masuda, Toshiro; Ishizuka, Kouichi; Fujita, Toshiji; and Kinoshita, Yoshio, 4,685,139, Cl. 382-1.000.
- Fujita, Toshio; and Hasegawa, Kouzi, to Kett Electric Laboratory. Instrument for measuring film thickness. 4,715,007, 12-22-87, Cl. 364-563.000.
- Fujita, Toshiyuki: *See—*
  - Kumagai, Yuugo; Moribe, Isamu; Saito, Takayuki; Fujita, Toshiyuki; and Kobayashi, Akihiro, 4,686,166, Cl. 430-109.000.
- Fujita, Tsuneo, to Nippon Electric Co., Ltd. Analog-to-digital converter. 4,644,322, 2-17-87, Cl. 340-347.0AD
- Fujita, Tsutomu: *See—*
  - Kikuchi, Kazuya; Komeda, Tadao; and Fujita, Tsutomu, 4,693,782, Cl. 156-653.000.
- Fujita, Tsuyoshi: *See—*
  - Oikawa, Shoji; Yamagishi, Hiroshi; Saito, Shigeru; Fujita, Tsuyoshi; and Watanabe, Takayoshi, 4,713,494, Cl. 174-68.500.
- Fujita, Yasuhiko: *See—*
  - Masuda, Eiji; and Fujita, Yasuhiko, 4,639,554, Cl. 340-365.00S.
  - Masuda, Eiji; and Fujita, Yasuhiko, 4,665,381, Cl. 340-347.0DA.
- Fujita, Yasuyuki; and Nishino, Takaichi, to Tachikawa Spring Co., Ltd. Fixing device for a vehicle seat. 4,639,040, 1-27-87, Cl. 297-379.000.
- Fujita, Yatsuka: *See—*
  - Ueno, Ryuzo; Kanayama, Tatsuo; Fujita, Yatsuka; and Yamamoto, Munemitsu, 4,647,458, Cl. 424-128.000.
- Fujita, Yoshiaki; and Kawai, Satoshi, to Nippon Piston Ring Co., Ltd. Sintered alloy having improved wear resistance property. 4,696,696, 9-29-87, Cl. 75-246.000.
- Fujita, Yoshiharu: *See—*
  - Fujimoto, Yoshihisa; Gotou, Seizi; and Fujita, Yoshiharu, 4,666,966, Cl. 524-114.000.
- Fujita, Yoshihide; and Morita, Hirofumi, to Honda Giken Kogyo Kabushiki Kaisha. Workpiece feeding apparatus in seam welding machine. 4,652,718, 3-24-87, Cl. 219-82.000.
- Fujita, Yoshihide; and Morita, Hirofumi, to Honda Giken Kogyo Kabushiki Kaisha. Workpiece feeding apparatus in seam welding machine. 4,652,719, 3-24-87, Cl. 219-82.000.
- Fujita, Yoshiji: *See—*
  - Kanehira, Koichi; Shiono, Manzo; Fujita, Yoshiji; Nishida, Takashi; and Yamahara, Johji, 4,681,890, Cl. 514-333.000.
  - Ohnishi, Takashi; Suzuki, Shigeaki; Fujita, Yoshiji; and Nishida, Takashi, 4,659,510, Cl. 252-522.00R.
  - Shiono, Manzo; Fujita, Yoshiji; and Nishida, Takashi, 4,694,090, Cl. 549-407.000.
- Fujita, Yoshitada; Hanada, Sadashi; and Yamamoto, Yoshiaki, to Kawasaki Jukogyo Kabushiki Kaisha. Method and apparatus for assembling a structure composing a vehicle's body and the like. 4,637,540, 1-20-87, Cl. 228-49.200.
- Fujita, Yoshitada; Hanada, Sadashi; Yamamoto, Yoshiaki; and Nakabayashi, Akira, to Kawasaki Jukogyo Kabushiki Kaisha. Method of handling a vehicle body during an equipping operation. 4,645,412, 2-24-87, Cl. 414-786.000.
- Fujita, Yosuke: *See—*
  - Matsuoka, Tomizo; Fujita, Yosuke; Kuwata, Jun; Abe, Atsushi; and Nitta, Tsuneharu, 4,664,985, Cl. 428-690.000.
  - Matsuoka, Tomizo; Nishikawa, Masahiro; Fujita, Yosuke; Abe, Atsushi; and Nitta, Tsuneharu, 4,668,582, Cl. 428-690.000.
  - Tohda, Takao; Matsuoka, Tomizo; Fujita, Yosuke; Abe, Atsushi; and Nitta, Tsuneharu, 4,634,934, Cl. 315-169.300.
- Fujita, Yuji; Ikeda, Tadao; and Makishima, Tokuo, deceased (by Makishima, Nobuko, legal representative), to Toa Nenryo Kogyo Kabushiki Kaisha. Polypropylene composition. 4,634,740, 1-6-87, Cl. 525-240.000.
- Fujita, Yuji, to NEC Kansai, Ltd. Matrix display panel driving system. 4,652,872, 3-24-87, Cl. 340-781.000.
- Fujita, Yuji; and Yamamoto, Noboru, to Toa Nenryo Kogyo Kabushiki Kaisha. Thermoplastic resin blend comprising 80 to 95 wt % of polycarbonate and 5 to 20 wt % of poly-p-methylstyrene. 4,657,980, 4-14-87, Cl. 525-146.000.
- Fujita, Yuji: *See—*
  - Yamada, Jun; Yuhara, Akitsuna; Shiba, Takashi; and Fujita, Yuji, 4,689,586, Cl. 333-151.000.
- Fujita, Yukio: *See—*
  - Enomoto, Hiroshi; Nomura, Tadatoshi; Aoyagi, Yoshiaki; Chokai, Shoichi; Fujita, Yukio; Kono, Tatsuhiko; Murase, Masao; Inoue, Kichiro; and Adachi, Masahiro, 4,711,898, Cl. 514-312.000.
- Fujita, Yutaka; and Takeuchi, Kiyohumi, to Dainippon Ink and Chemicals, Inc. Nematic liquid crystalline composition. 4,670,182, 6-2-87, Cl. 252-299.610.
- Fujitaki, Roy K.: *See—*
  - Keck, Henry C.; and Fujitaki, Roy K., 4,707,933, Cl. 34-97.000.
- Fujitani, Hajime: *See—*
  - Harada, Yoshiaki; Nakashiba, Akio; Matuura, Hiroyuki; Okino, Teizou; Fujitani, Hajime; Yamasaki, Kenichi; Doi, Yasuhumi; and Yurugi, Shigenobu, 4,699,720, Cl. 210-762.000.
- Fujitani, Mitsuhiro; and Tanaka, Yoshihiro, to Sumitomo Wiring Systems, Ltd. Electric wire branching connector device. 4,674,819, 6-23-87, Cl. 339-99.00R.
- Fujitani, Yoshiyasu: *See—*
  - Suzuki, Kenichirou; Fujitani, Yoshiyasu; Yoshimoto, Taisuke; and Muraki, Hideaki, 4,661,329, Cl. 423-245.000.
- Fujitani, Yugo: *See—*
  - Haze, Setsuo; and Fujitani, Yugo, 4,661,917, Cl. 364-567.000.
- Fujitec Co.: *See—*
  - Koh, Hiroshi; and Tokuyama, Takashi, 4,662,225, Cl. 73-655.000.
- Fujito, Katsuyuki: *See—*
  - Fujita, Toshihiro; Ishizuka, Satoshi; Fujito, Katsuyuki; and Sato, Hisanao, 4,677,630, Cl. 372-32.000.
- Fujito, Nobutoshi; and Takeuchi, Hiroshi, to Kabushiki Kaisha Daikin Seisakusho. Clutch cooling device. 4,657,128, 4-14-87, Cl. 192-113.00A.
- Fujitomi, Tetsuo; Iida, Masamichi; and Kato, Kiminobu, to Mazda Motor Corporation. Secondary air supply system for an engine exhaust gas purifying system. 4,674,277, 6-23-87, Cl. 60-293.000.
- Fujitsu Limited: *See—*
  - Aizaki, Yoshihiko, 4,638,434, Cl. 364-401.000.
  - Akasaki, Hidehiko; and Tsujimura, Takehisa, 4,682,207, Cl. 357-74.000.
  - Akasaki, Hidehiko; and Miyasaka, Kiyoshi, 4,689,658, Cl. 357-80.000.
  - Amatsu, Masashi; Yanase, Takeyasu; Inoue, Hiroshi; and Nakagawa, Yusuke, 4,698,786, Cl. 365-39.000.
  - Amemiya, Shinichi, 4,693,319, Cl. 128-663.000.
  - Ando, Moritoshi, 4,686,565, Cl. 358-101.000.
  - Aneha, Nobuhiko; and Baba, Shigenori, 4,701,778, Cl. 357-45.000.
  - Aoyama, Keizo, 4,656,608, Cl. 365-190.000.
  - Aoyama, Keizo, 4,660,179, Cl. 365-200.000.
  - Aoyama, Keizo, 4,716,307, Cl. 307-297.000.
  - Arakawa, Hideki, 4,636,658, Cl. 307-350.000.
  - Arakawa, Hideki, 4,677,590, Cl. 365-185.000.
  - Arakawa, Hideki, 4,682,051, Cl. 307-359.000.
  - Arakawa, Hideki, 4,699,690, Cl. 156-662.000.
  - Arakawa, Hideki, 4,703,196, Cl. 307-246.000.
  - Arakawa, Hideki, 4,703,456, Cl. 365-185.000.
  - Arii, Katsuyuki, 4,633,804, Cl. 118-52.000.
  - Asagi, Yasuyoshi; Ogawa, Noriaki; Kasai, Hitoshi; Hattori, Toshihiro; and Uriuhara, Makoto, 4,642,771, Cl. 364-424.100.
  - Asagi, Yasuyoshi; Ogawa, Noriaki; Moride, Shigeki; Hattori, Toshihiro; and Shishido, Katsuya, 4,671,397, Cl. 192-0.052.
  - Asami, Fumitaka, 4,698,529, Cl. 307-542.000.
  - Atsumi, Masaharu, 4,654,543, Cl. 307-252.00A.
  - Baba, Fumio; Mochizuki, Hirohiko; and Miyahara, Hatsuo, 4,653,027, Cl. 365-189.000.
  - Baba, Fumio; and Takemae, Yoshihiro, 4,680,734, Cl. 365-190.000.
  - Enokido, Shunji; Kodani, Hideyuki; and Ohta, Hajime, 4,670,751, Cl. 340-706.000.
  - Enomoto, Hiromu; Yasuda, Yasushi; Tahara, Akinori; and Kumagai, Masao, 4,703,202, Cl. 307-443.000.
  - Enomoto, Yoshinori; Monma, Hideo; Ohta, Shunzo; and Sasaki, Takeshi, 4,703,483, Cl. 371-24.000.
  - Fujii, Shigeru, 4,697,095, Cl. 307-243.000.
  - Fujii, Shigeru; and Oozeki, Masanori, 4,700,089, Cl. 307-605.000.
  - Fujisaku, Kiminori; Awaga, Makoto; and Mori, Shosuke, 4,684,935 Cl. 340-717.000.
  - Fujita, Kouichi, 4,651,113, Cl. 331-109.000.
  - Fukuda, Eisuke; Takeda, Yukio; Daido, Yoshimasa; Nakamura Hiroshi; Sasaki, Susumu; and Takenaka, Sadao, 4,665,532, C 375-19.000.
  - Fukuda, Misao; Tsuda, Toshitaka; Murano, Kazuo; and Awata Yutaka, 4,679,188, Cl. 370-29.000.
  - Fukumoto, Toshio, 4,638,466, Cl. 365-230.000.
  - Fukushima, Toshitaka, 4,654,688, Cl. 357-46.000.
  - Fukuyama, Shun-ichi; Yoneda, Yasuhiro; Miyagawa, Masashi; an Nishii, Kota, 4,657,843, Cl. 430-323.000.
  - Fukuyama, Shun-ichi; Yoneda, Yasuhiro; Miyagawa, Masash Nishii, Kota; and Matsuura, Azuma, 4,670,299, Cl. 427-96.000.
  - Goto, Junichi, 4,675,985, Cl. 29-588.000.
  - Goto, Yasuyuki; Koshino, Nagaaki; Ogawa, Seiya; Goto, Hirono and Ogawa, Koichi, 4,650,742, Cl. 430-271.000.
  - Hasuo, Shinya; and Fujimaki, Norio, 4,713,562, Cl. 307-462.000.
  - Hata, Yujiro, 4,697,215, Cl. 360-95.000.
  - Hatano, Takashi; Nara, Takashi; Kawato, Yutaka; and Okad Sumie, 4,698,801, Cl. 370-58.000.
  - Hattori, Toshihiro; Uriuhara, Makoto; Kasai, Hitoshi; Asa Yasuyoshi; and Ogawa, Noriaki, 4,643,048, Cl. 74-866.000.
  - Hattori, Toshihiro; Uriuhara, Makoto; Kasai, Hitoshi; and Asa Yasuyoshi, 4,677,880, Cl. 74-866.000.
  - Hattori, Toshihiro; Uchiyama, Nobuichi; Asagi, Yasuyos Ogawa, Noriaki; and Kasai, Hitoshi, 4,683,996, Cl. 192-0.033.
  - Hattori, Toshihiro; Shishido, Katsuya; Kasai, Hitoshi; Mori Shigeki; and Ogawa, Noriaki, 4,685,051, Cl. 364-424.100.
  - Hideshima, Osamu; and Goto, Hiroshi, 4,698,127, Cl. 156-643.0
  - Higuchi, Mitsuo; and Hagihara, Ryoji, 4,656,609, Cl. 365-200.0
  - Higuchi, Mitsuo; and Tsuchida, Manabu, 4,709,165, 307-350.000.
  - Hino, Youzi; and Ogawa, Hironobu, 4,703,302, Cl. 338-293.000
  - Hino, Youzi, 4,713,649, Cl. 340-347.0DA.
  - Hiyane, Masao, 4,697,472, Cl. 74-479.000.
  - Iizawa, Ryuji; and Murakami, Koji, 4,641,067, Cl. 318-287.000
  - Iizuka, Yoshio; Matsunaga, Shigeo; and Ogawa, Satoshi, 4,646, Cl. 358-257.000.

Ikeda, Hiroyuki; Matsumoto, Seikichi; Kitagawa, Shunji; Inagaki, Takefumi; and Sebata, Ichiro, 4,639,070, Cl. 350-3.710.
Ikegami, Yoshiki; Matsumoto, Fumio; Sato, Yasuaki; and Hayakawa, Yoshio, 4,663,731, Cl. 364-900.000.
Ikegami, Yoshiki; Sato, Yasuaki; and Ishimaru, Mitsutoshi, 4,677,585, Cl. 364-900.000.
Ikeuchi, Satoshi; and Taniguchi, Ikuo, 4,680,776, Cl. 375-40.000.
Imai, Ryusaku; Sekiguchi, Fujio; Chou, Tomoyuki; Ohya, Nobumasa; and Sato, Hitoshi, 4,654,483, Cl. 379-54.000.
Imai, Satoru; and Sukeda, Toshiaki, 4,635,225, Cl. 365-1.000.
Imanaka, Yoshihiko; Ogawa, Hiromi; Tsukada, Mineharu; Udagawa, Etsuro; Kurihara, Kazuaki; Yokoyama, Hiromitsu; and Kamehara, Nobuo, 4,679,320, Cl. 29-848.000.
Ishikawa, Hiroshi; Takagi, Nobuyuki; and Imai, Hajime, 4,675,710, Cl. 357-17.000.
Itakura, Tohru, 4,695,978, Cl. 365-51.000.
Kaku, Takashi, 4,672,630, Cl. 375-13.000.
Kaku, Takashi; and Arai, Yasuhiro, 4,694,469, Cl. 375-13.000.
Kanai, Yasunori; and Saitoh, Taichi, 4,678,942, Cl. 307-455.000.
Kaneda, Takao; and Nakajima, Kazuo, 4,701,773, Cl. 357-13.000.
Kaneko, Yoshiaki; Saito, Toshiyuki; and Okubo, Naofumi, 4,686,494, Cl. 333-137.000.
Kasai, Hitoshi; Asagi, Yasuyoshi; Hattori, Toshihiro; Saito, Hideo; and Shishido, Katsuya, 4,635,214, Cl. 364-551.000.
Kato, Motokazu; and Matsumoto, Toshio, 4,654,779, Cl. 364-200.000.
Kawaguchi, Tomohiro, 4,688,208, Cl. 370-15.000.
Kawai, Masahisa, 4,677,619, Cl. 371-5.000.
Kawami, Shigeru; Tabu, Takashi; Ayano, Mitsutoshi; Shibuya, Kiyoshi; and Itoh, Shin-ichi, 4,677,669, Cl. 379-413.000.
Kawashima, Hiromi; and Arakawa, Hideki, 4,644,182, Cl. 307-246.000.
Kawashima, Syoichiro, 4,644,502, Cl. 365-219.000.
Kawata, Haruo; and Nishi, Hidetoshi, 4,642,879, Cl. 29-576.00B.
Kikuchi, Shunichi; Matsunaga, Haruyuki; Katsumi, Hideo; and Katsuyama, Koji, 4,712,158, Cl. 361-385.000.
Kimura, Masatoshi; and Nakajima, Junzo, 4,666,801, Cl. 430-33.000.
Kitahara, Takeshi, 4,710,915, Cl. 370-16.000.
Kitamura, Toshiaki; and Oinaga, Yuji, 4,701,915, Cl. 371-13.000.
Kobayashi, Kenichi, 4,641,353, Cl. 382-8.000.
Kobayashi, Kenichi; and Matsuyama, Takayoshi, 4,669,123, Cl. 382-8.000.
Kobayashi, Masahiro; Yamazaki, Susumu; Mikawa, Takashi; Nakajima, Kazuo; and Kaneda, Takao, 4,656,494, Cl. 357-30.000.
Koezuka, Tetsuo; Hiraoka, Noriyuki; Tsukahara, Hiroyuki; and Nakashima, Masato, 4,672,678, Cl. 382-30.000.
Kojima, Haruo; and Akasaki, Hidehiko, 4,710,250, Cl. 156-89.000.
Koshino, Minoru; and Matsumoto, Yasuo, 4,698,754, Cl. 364-200.000.
Koshizuka, Atuo, 4,634,900, Cl. 307-530.000.
Kousaka, Kunimitsu; and Gotoh, Kunihiko, 4,697,154, Cl. 330-277.000.
Koyama, Yoshiaki, 4,664,336, Cl. 242-186.000.
Kubota, Akihiro; Aoki, Tsuyoshi; Ono, Michio; and Sugiura, Rikio, 4,698,660, Cl. 357-70.000.
Kumazaki, Masayuki; Shimoe, Toshio; and Murakami, Koso, 4,680,758, Cl. 370-110.200.
Kurihara, Kazuaki; Kamehara, Nobuo; Yokoyama, Hiromitsu; Ogawa, Hiromi; Yokouchi, Kishio; Imanaka, Yoshihiko; and Niwa, Koichi, 4,642,148, Cl. 156-89.000.
Kuroda, Hideo; Mukawa, Naoki; Hiraoka, Makoto; Matsuda, Kiichi; Nishiwaki, Mitsuo; and Tsugane, Shuzo, 4,677,480, Cl. 358-136.000.
Kuroda, Shigeru, 4,635,343, Cl. 29-571.000.
Kuroki, Akira; and Ochiai, Satoru, 4,675,815, Cl. 379-37.000.
Kuwabara, Kiyoshi; Nishihara, Mikio; and Tsunoi, Kazuhisa, 4,675,789, Cl. 361-414.000.
Kuwahara, Hideo, 4,650,289, Cl. 350-375.000.
Maegawa, Harumi; Takai, Sakan; Sukeda, Toshiaki; Irie, Shoji; and Kobata, Shoichi, 4,710,895, Cl. 365-2.000.
Makiuchi, Masao, 4,716,125, Cl. 437-22.000.
Matsubara, Yoshiaki; and Tsuru, Masato, 4,644,462, Cl. 364-200.000.
Matsuda, Kiichi; Tsuda, Toshitaka; Homma, Toshihiro; Fukuda, Hiroshi; Okazaki, Takeshi; and Maki, Shin-ichi, 4,668,987, Cl. 358-136.000.
Matsui, Showgo; and Kobayashi, Kenichi, 4,673,816, Cl. 250-556.000.
Matsumoto, Masaru; Nishihara, Mikio; and Kuwabara, Kiyoshi, 4,692,843, Cl. 361-414.000.
Matsumoto, Norio; Okuda, Shinya; Ohkuma, Osamu; and Seino, Mituyoshi, 4,641,980, Cl. 400-120.000.
Matsumoto, Seikichi; and Ikeda, Hiroyuki, 4,639,071, Cl. 350-3.710.
Matsuyama, Takayoshi; and Kobayashi, Kenichi, 4,701,859, Cl. 364-490.000.
Matsuzaki, Toshio; Sorimachi, Haruo; Satoh, Kiyoshi; Suzuki, Takumi; and Sugii, Takeshi, 4,689,638, Cl. 346-76.0PH.
Matsuzaki, Yasurou, 4,646,264, Cl. 365-104.000.
Miida, Takashi; Takei, Akira; and Tashiro, Kiyoshi, 4,716,466, Cl. 358-213.260.
Mimura, Takashi, 4,663,643, Cl. 357-22.000.
Mimura, Takashi; and Hiyamizu, Satoshi, 4,714,948, Cl. 357-22.000.
Minami, Akira, 4,707,648, Cl. 318-640.000.
Miyahara, Hatsuo; Baba, Fumio; and Mochizuki, Hirohiko, 4,672,372, Cl. 340-825.200.
Miyamura, Tamio; and Ohkawa, Takashi, 4,694,431, Cl. 365-189.000.
Miyazawa, Hideo; Andoh, Ikuhiro; Koyama, Hiromichi; and Kobayashi, Mitsuru, 4,714,306, Cl. 439-395.000.
Miyo, Tokihiro, 4,651,104, Cl. 328-139.000.
Miyo, Tokihiro, 4,656,630, Cl. 370-104.000.
Monma, Hideo; Ishiguro, Masato; and Kawano, Tetsuo, 4,692,783, Cl. 357-42.000.
Mori, Shosuke; Sakurai, Atsushi; Aoki, Satoshi; and Suzuki, Tatsuya, 4,716,526, Cl. 364-200.000.
Motegi, Masanori, 4,697,235, Cl. 364-200.000.
Motoki, Yasunari; and Ohkuma, Yuji, 4,637,146, Cl. 34-58.000.
Murakami, Jyoji; and Yamada, Kenzi, 4,642,609, Cl. 340-347.0AD.
Nagae, Yasutaka, 4,716,521, Cl. 364-200.000.
Nagasawa, Masanori, 4,644,501, Cl. 365-203.000.
Nagashima, Masayasu; and Iijima, Nobuo, 4,690,591, Cl. 406-88.000.
Naitoh, Mitsugu; and Suehiro, Yoshiyuki, 4,701,919, Cl. 371-21.000.
Nakamura, Haruhiko; and Tempaku, Junya, 4,713,621, Cl. 328-55.000.
Nakamura, Kazuo, 4,661,771, Cl. 324-158.00D.
Nakanishi, Akio, 4,714,942, Cl. 355-14.00R.
Nakano, Masao; Takemae, Yoshihiro; Sato, Kimiaki; and Kodama, Nobumi, 4,704,706, Cl. 365-203.000.
Nakano, Masao; Takemae, Yoshihiro; Nakano, Tomio; Nozaki, Shigeki; Sato, Kimiaki; and Kodama, Nobumi, 4,716,549, Cl. 365-203.000.
Nakano, Motoo, 4,669,062, Cl. 365-174.000.
Nakano, Tomio, 4,649,289, Cl. 307-246.000.
Nakao, Kunimichi, 4,714,511, Cl. 156-285.000.
Nakashima, Masato; Koezuka, Tetsuo; Tsukahara, Hiroyuki; and Inagaki, Takefumi, 4,651,341, Cl. 382-34.000.
Nawata, Kazumasa; and Kanai, Yasunori, 4,678,935, Cl. 307-297.000.
Nishino, Tetsuo; Okamura, Hiroko; and Yamatani, Yasunori, 4,672,662, Cl. 379-277.000.
Nojiri, Shoji; Ogawa, Kenichi; and Murakami, Koso, 4,656,625, Cl. 370-62.000.
Nozue, Yoshihiro, 4,697,265, Cl. 371-5.000.
Ogawa, Junji, 4,701,887, Cl. 365-200.000.
Ohtsuki, Osamu, 4,639,940, Cl. 377-60.000.
Oie, Masayuki; Ogawa, Satoshi; Sugimoto, Sadao; Yamazaki, Masahiro; and Fujino, Katsuhiro, 4,654,292, Cl. 430-197.000.
Oinaga, Yuji, 4,665,479, Cl. 364-200.000.
Okajima, Yoshinori; and Ohiwa, Masaki, 4,675,555, Cl. 307-455.000.
Okajima, Yoshinori, 4,677,455, Cl. 357-38.000.
Okajima, Yoshinori, 4,697,104, Cl. 307-463.000.
Okamura, Shigeru; and Taguchi, Takao, 4,641,034, Cl. 250-492.200.
Okazaki, Niro, 4,686,001, Cl. 156-652.000.
Okubo, Kimio; and Nemoto, Hiroshi, 4,709,512, Cl. 51-237.00R.
Ono, Chikai; and Okajima, Yoshinori, 4,636,831, Cl. 357-45.000.
Ono, Izumi, 4,688,147, Cl. 361-385.000.
Ono, Yoshinobu; and Watanabe, Yoshio, 4,685,551, Cl. 198-346.200.
Ooami, Kazuo; and Sugo, Yasuhisa, 4,665,509, Cl. 365-233.000.
Ooami, Kazuo; Sugo, Yasuhisa; and Takeshima, Tohru, 4,692,900, Cl. 365-63.000.
Oritani, Atsushi, 4,636,742, Cl. 330-256.000.
Oritani, Atsushi, 4,651,029, Cl. 307-449.000.
Otsuka, Akira; Shinoda, Tsutae; Horio, Kenji; and Tanioka, Tsuyoshi, 4,684,849, Cl. 315-169.400.
Ozaki, Takayuki, 4,656,644, Cl. 375-14.000.
Saito, Tadahiro; and Gotoh, Kunihiko, 4,697,140, Cl. 324-73.00R.
Sakai, Yusaku; Kitamoto, Yoshito; Ohtaki, Shinji; Tamaki, Yasushi; and Nagai, Hikaru, 4,664,963, Cl. 428-142.000.
Sakai, Yusaku; Kitamoto, Yoshito; Ohtaki, Shinji; Tamaki, Yasushi; and Nagai, Hikaru, 4,675,075, Cl. 156-650.000.
Sakurai, Junji; and Kamioka, Hajime, 4,642,883, Cl. 29-576.00B.
Sakurai, Junji, 4,659,422, Cl. 156-617.00R.
Sasaki, Nobuo, 4,646,426, Cl. 29-571.000.
Sasaki, Nobuo, 4,665,419, Cl. 357-23.700.
Sasaki, Susumu, 4,644,531, Cl. 370-77.000.
Sasaki, Susumu, 4,683,566, Cl. 370-100.000.
Sato, Kazuhiro; and Mori, Hiroyoshi, 4,661,879, Cl. 361-58.000.
Sato, Kazuhiro; Iijima, Yoshimi; and Mori, Hiroyoshi, 4,670,874, Cl. 370-110.100.
Sato, Shinji; and Goto, Gensuke, 4,668,972, Cl. 357-42.000.
Sato, Takuso; and Ichida, Nobuyuki, 4,691,569, Cl. 73-596.000.
Satoh, Taizo, 4,691,145, Cl. 315-169.300.
Sawada, Kenji, 4,641,073, Cl. 318-696.000.
Sawatari, Norio; Yamagishi, Yasuo; Ebisu, Katsuji; Katagiri, Yoshimichi; and Narusawa, Toshiaki, 4,699,863, Cl. 430-97.000.
Shiho, Masahiko; and Sato, Yasunori, 4,676,941, Cl. 264-247.000.
Shimauchi, Yoshiki; and Hirochi, Katsuji, 4,689,502, Cl. 307-443.000.
Shimoda, Kaneyasu; Katoh, Tadayoshi; and Ageno, Yuzo, 4,710,746, Cl. 340-347.0DD.
Shimura, Takaki; Murakami, Keiichi; Igarashi, Yutaka; Shiba, Akira; Hayashi, Hajime; Miwa, Hirohide; Inoue, Michitoshi; and Matsumoto, Masayuki, 4,655,228, Cl. 128-660.000.
Shinoda, Tsutae; and Niinuma, Atsuo, 4,638,218, Cl. 315-169.400.
Shinoda, Tsutae; Miyashita, Yoshinori; Sugimoto, Yoshimi; Sei, Hideo; and Andoh, Shizuo, 4,697,123, Cl. 315-169.400.
Shirai, Kazunari; Kamioka, Hajime; and Koike, Shigeyoshi, 4,672,740, Cl. 29-590.000.
Shirasaki, Masataka; Nakajima, Hirochika; Furukawa, Yasuo; and Inagaki, Takefumi, 4,637,027, Cl. 372-27.000.

- Shirasaki, Masataka, 4,641,926, Cl. 350-394.000.
- Shirasaki, Masataka, 4,668,052, Cl. 350-377.000.
- Shirasaki, Masataka, 4,712,880, Cl. 350-377.000.
- Shirato, Takehide; and Fujita, Kouichi, 4,677,314, Cl. 307-270.000.
- Shirato, Takehide; and Sekine, Shinichi, 4,710,791, Cl. 357-23.130.
- Soeda, Kazuhiko; Mori, Masakazu; Nishikawa, Tsutomu; and Tomimori, Kiyoshi, 4,710,022, Cl. 356-73.100.
- Sono, Michio, 4,661,837, Cl. 357-84.000.
- Sugimoto, Masahiro; Wakasugi, Yasumasa; and Harada, Shigeki, 4,698,663, Cl. 357-81.000.
- Sugishima, Kenji; and Nakagawa, Kenji, 4,678,919, Cl. 250-491.100.
- Sugishima, Kenji; and Yasuda, Hiroshi, 4,684,315, Cl. 414-749.000.
- Suyama, Katsuhiko, 4,656,611, Cl. 365-203.000.
- Suzuki, Atsushi, 4,710,904, Cl. 365-226.000.
- Suzuki, Eiji; Nozue, Yoshihiro; and Oide, Kenichi, 4,672,631, Cl. 375-14.000.
- Suzuki, Hideo, 4,710,651, Cl. 307-462.000.
- Suzuki, Hirokazu; Akiyama, Takehiro; Morita, Teruo; Takeda, Hirofumi; and Masunaga, Hikotaro, 4,645,958, Cl. 307-597.000.
- Suzuki, Narumi; and Takagi, Hisamitsu, 4,714,303, Cl. 312-7.100.
- Suzuki, Tetsuo; and Nishikawa, Sinji, 4,667,285, Cl. 364-200.000.
- Suzuki, Yasuo, 4,641,284, Cl. 365-210.000.
- Suzuki, Yasuo; Hirao, Hiroshi; and Suzuki, Yasuaki, 4,653,023, Cl. 365-104.000.
- Taguchi, Masao, 4,635,085, Cl. 357-23.600.
- Tahara, Akinori; Enomoto, Hiromu; and Yasuda, Yasushi, 4,680,600, Cl. 357-15.000.
- Takagi, Hisamitsu; Hanawa, Tetsuya; Nishiyama, Akihide; and Takashima, Yutaka, 4,700,383, Cl. 379-421.000.
- Takahashi, Atsuhisa; Nara, Takashi; Murayama, Masami; and Takeichi, Hiroaki, 4,661,946, Cl. 370-58.000.
- Takahashi, Hitoshi, 4,707,802, Cl. 364-900.000.
- Takao, Hisoka; Sato, Toshiro; Saito, Seiichi; and Hayashi, Toshinari, 4,707,622, Cl. 307-448.000.
- Takayama, Yoshihisa; Fujii, Shigeru; Kawauchi, Kazuyuki; and Yoshida, Toshihiko, 4,661,815, Cl. 340-825.860.
- Takayama, Yoshihisa; Fujii, Shigeru; and Tanabe, Tomoaki, 4,701,777, Cl. 357-42.000.
- Takei, Akira; Hika, Yoshihiko; and Miida, Takashi, 4,672,409, Cl. 357-33.500.
- Takemae, Yoshihiro; Nakano, Tomio; and Sato, Kimiaki, 4,636,982, Cl. 365-149.000.
- Takemae, Yoshihiro; Nakano, Tomio; and Sato, Kimiaki, 4,641,166, Cl. 357-23.600.
- Takemae, Yoshihiro, 4,646,118, Cl. 357-23.600.
- Takemae, Yoshihiro; Nakano, Tomio; and Sato, Kimiaki, 4,649,406, Cl. 357-23.600.
- Takemae, Yoshihiro; Nakano, Tomio; and Sato, Kimiaki, 4,660,174, Cl. 365-63.000.
- Takemae, Yoshihiro, 4,679,214, Cl. 377-80.000.
- Takemae, Yoshihiro, 4,688,219, Cl. 371-10.000.
- Takemae, Yoshihiro, 4,692,689, Cl. 323-313.000.
- Takemae, Yoshihiro; Nakano, Tomio; Tatematsu, Takeo; Ogawa, Junji; Horii, Takashi; Fujii, Yasuhiro; Nakano, Masao; and Tsuge, Norihisa, deceased, 4,707,806, Cl. 365-96.000.
- Takemae, Yoshihiro; Nakano, Tomio; Nakano, Masao; and Sato, Kimiaki, 4,707,811, Cl. 365-239.000.
- Tamano, Michio; and Kawasaki, Yoshiaki, 4,672,735, Cl. 29-564.600.
- Tanaka, Shoji, 4,680,079, Cl. 156-353.000.
- Tanizawa, Tetsu; and Ohba, Osam, 4,654,548, Cl. 307-450.000.
- Tanizawa, Tetsu, 4,682,202, Cl. 357-45.000.
- Tanizawa, Tetsu; and Ohba, Osam, 4,716,310, Cl. 307-446.000.
- Tetsu, Sadayuki; and Tanishima, Yasuo, 4,685,034, Cl. 361-424.000.
- Togei, Ryoiku, 4,672,408, Cl. 357-23.500.
- Tone, Hirosada, 4,713,752, Cl. 364-200.000.
- Tsuchida, Manabu; and Yoshida, Masanobu, 4,649,521, Cl. 365-185.000.
- Tsukada, Tetsuo; Shimobuchi, Hideyuki; and Yoshikawa, Takahiro, 4,695,175, Cl. 400-196.100.
- Tuchiya, Takahiro; Tukuda, Kazuaki; Takada, Tadakazu; and Goto, Hiroshi, 4,654,113, Cl. 156-643.000.
- Uchida, Keiichiro, 4,675,806, Cl. 364-200.000.
- Uchiyama, Koji; Nakazawa, Akira; and Tanaka, Masao, 4,661,393, Cl. 428-200.000.
- Wakabayashi, Tetsushi; Sugimoto, Masahiro; and Muratake, Kiyoshi, 4,688,077, Cl. 357-81.000.
- Yagi, Harumi, 4,691,855, Cl. 228-4.500.
- Yamagishi, Wataru; and Sagawa, Masato, 4,710,242, Cl. 148-301.000.
- Yamaguchi, Hisashi; Takahara, Kazuhiro; Gondoh, Hiroyuki; Kawada, Toyoshi; and Andoh, Shizuo, 4,636,789, Cl. 340-805.000.
- Yamamoto, Tsuyoshi; Okada, Nobuhide; and Kawamura, Yasuo, 4,703,393, Cl. 361-405.000.
- Yamamura, Shigeyuki, 4,672,151, Cl. 174-52.0FP.
- Yamamura, Shigeyuki, 4,713,634, Cl. 333-245.000.
- Yamazaki, Kozo; Yamagishi, Fumio; Ikeda, Hiroyuki; Wataruki, Hiroshi; Ishii, Mitsuharu; Sebata, Ichiro; and Inagaki, Takefumi, 4,647,143, Cl. 350-3.710.
- Yamazaki, Kozo; Yamagishi, Fumio; Ikeda, Hiroyuki; Inagaki, Takefumi; Sebata, Ichiro; Kitagawa, Shunji; Kato, Masayuki; and Ichikawa, Toshiyuki, 4,655,541, Cl. 350-3.710.
- Yamazaki, Masahiro; Iizuka, Shigeru; Kamiya, Shigemitsu; Oka, Yoshiro; and Fujino, Katsuhiro, 4,676,404, Cl. 222-56.000.
- Yasutake, Nobuyuki; and Tsuda, Toshitaka, 4,651,033, C 307-494.000.
- Yazuka, Hiroyuki; and Nakazawa, Isao, 4,658,405, Cl. 375-38.00
- Yokouchi, Kishio; Suzuki, Yuichi; and Niwa, Koichi, 4,704,658, C 361-385.000.
- Yokoyama, Naoki, 4,712,121, Cl. 357-4.000.
- Yoshikawa, Kazuo; Asano, Toru; Yamaguchi, Hisashi; Takizaw Hideaki; and Andoh, Shizuo, 4,680,430, Cl. 178-19.000.
- Yoshizawa, Takeshi, 4,694,527, Cl. 15-308.000.

Fujitsu VLSI Limited: *See*—

- Okajima, Yoshinori; and Ohiwa, Masaki, 4,675,555, Cl. 307-455.00

Fujitsugu, Yutaka; Ito, Tomoo; and Uchida, Tadao, to Hitachi, Ltd and Hitachi Automotive Engineering Co., Ltd. Closed loop typ proportional electromagnetic valve for hydraulic control. 4,669,50 6-2-87, Ci. 137-625.650.

Fujiu, Minoru: *See*—

- Aoki, Kazumi; and Fujiu, Minoru, 4,712,385, Cl. 62-333.000.

Fujiu, Takamitsu; Mochida, Masaaki; and Ogino, Makoto, to Nippo Kogaku K. K. Apatite composite ceramics. 4,708,652, 11-24-87, Cl 433-201.100.

Fujiura, Kaiya; Hayakawa, Yoichi; Taga, Yutaka; and Nakamura , Shinya, to Aisin-Warner Limited; and Toyota Motor Corporation Control system for a four-wheel drive transmission. 4,663,992 5-12-87, Cl. 74-869.000.

Fujiura, Kaiya; Hayakawa, Yoichi; Harada, Yoshiharu; and Fukumura, Kagenori, to Aisin-Warner Limited; and Toyota Jidosha Kabushiki Kaisha. Lubrication system for power transmission chain. 4,699,249, 10-13-87, Cl. 184-11.100.

Fujiura, Yoji: *See*—

- Noda, Kimihiko; Fujiura, Yoji; and Hasegawa, Yoichi, 4,710,298 Cl. 210-505.000.

Fujiwara, Akihiro; and Tanaka, Kazuo, to Canon Kabushiki Kaisha. Automatic focusing adjustment device. 4,643,556, 2-17-87, Cl 354-406.000.

Fujiwara, Akihiro: *See*—

- Amikura, Takashi; and Fujiwara, Akihiro, 4,673,806, Cl 250-201.000.
- Takahashi, Kouji; and Fujiwara, Akihiro, 4,697,904, C 354-403.000.

Fujiwara, Akinori: *See*—

- Nishimura, Yuji; Fujiwara, Akinori; and Kanada, Shigeyasu, 4,678,928, Cl. 307-10.0SB.
- Tsuge, Hiroshi; Fujiwara, Akinori; and Yoshitsugu, Noritada, 4,685,741, Cl. 297-467.000.
- Tsuge, Hiroshi; Fujiwara, Akinori; Yoshitsugu, Noritada; and Sugiura, Motonobu, 4,688,849, Cl. 297-250.000.

Fujiwara, Atushi: *See*—

- Kitagawa, Kazumi; and Fujiwara, Atushi, 4,662,462, Cl. 177-25.000.

Fujiwara, Eisuke: *See*—

- Aritomi, Mitsutoshi; and Fujiwara, Eisuke, 4,654,178, Cl. 264-102.000.

Fujiwara, Haruyoshi, to Mitsubishi Jukogyo Kabushiki Kaisha. Twin-wire former for papermaking machine. 4,686,004, 8-11-87, Cl. 162-300.000.

Fujiwara, Haruyoshi; Makino, Tetsuo; and Iwata, Hiroshi, to Mitsubishi Jukogyo Kabushiki Kaisha. Impermeable plate for uniformly dispersing paper raw material in a twin wire paper former. 4,708,773 11-24-87, Cl. 162-300.000.

Fujiwara, Haruyoshi, to Mitsubishi Jukogyo Kabushiki Kaisha. Twin wire former with an impermeable belt inside the top wire. 4,714,521, 12-22-87, Cl. 162-300.000.

Fujiwara, Hidenori: *See*—

- Lacoste, Olivier H. V.; De Regel, Alain; Fujiwara, Hidenori; and Yap, Raymond C. C., 4,690,958, Cl. 523-172.000.

Fujiwara, Hideo: *See*—

- Inagoya, Osamu; Fujiwara, Hideo; Tottori, Takeshi; Yamano Minoru; Kumasaka, Noriyuki; Otomo, Shigekazu; Kudo, Mitsuhiro; Morikawa, Juiti; Ishihara, Kiyoshi; Usui, Akira; and Hayashi, Masashi, 4,701,819, Cl. 360-122.000.
- Kumasaka, Noriyuki; Fujiwara, Hideo; Otomo, Shigekazu; Yamashita, Takeo; Takayama, Shinji; Saito, Noritoshi; and Kudo Mitsuhiro, 4,656,547, Cl. 360-126.000.
- Nakamura, Hitoshi; Shiiki, Kasuo; Yuito, Isamu; Shiroishi, Yo'shihiro; Fujiwara, Hideo; Shinagawa, Kiminari; and Iijima Akemi, 4,636,897, Cl. 360-119.000.
- Shiiki, Kazuo; Shiroishi, Yoshihiro; Yuito, Isamu; Shinagawa Kiminari; and Fujiwara, Hideo, 4,651,248, Cl. 360-119.000.

Fujiwara, Hideyuki: *See*—

- Ono, Takahiro; Akutsu, Takao; and Fujiwara, Hideyuki, 4,640,29 Cl. 131-303.000.

Fujiwara, Hiromi: *See*—

- Hamaoka, Toshiyuki; Fujiwara, Hiromi; Kusama, Tsuneo; an Komiya, Masahiro, 4,672,106, Cl. 530-331.000.
- Hamaoka, Toshiyuki; Fujiwara, Hiromi; and Kusama, Tsune 4,681,856, Cl. 536-53.000.

Fujiwara, Hiroshi; Matsumoto, Tadashi; and Sekiya, Masaaki, Maruzen Petrochemical Co., Ltd. Method for the production reformed p-vinylphenol polymers which are lightened in colo 4,709,009, 11-24-87, Cl. 528-481.000.

Fujiwara, Hisashige: *See*—

- Ishigaki, Yukinobu; Namiki, Yasuomi; Fujiwara, Hisashige; an Hirohashi, Kazutoshi, 4,698,693, Cl. 358-310.000.

Fujiwara, Ichinori; Kawashima, Kunikazu; and Tobe, Takashi, deceased (by Okumuki, Mishizu, legal representative), to NEC Corp ration. Control system for tightly-coupled multiprocessing units. 4,663,709, 5-5-87, Cl. 364-200.000.

Fujiwara, Ichiro, to Mitsubishi Denki Kabushiki Kaisha. Switching apparatus for a time switch. 4,634,821, 1-6-87, Cl. 200-38.0FB.

Fujiwara, James M. Rocking turtle with no legs. 4,643,922, 2-17-87, Cl. 428-16.000.

Fujiwara, Katsuyoshi; Miwa, Yoshihisa; and Yoshiura, Shoichiro, to Sharp Kabushiki Kaisha. Electrophotographic copying machine with variable magnification. 4,647,189, 3-3-87, Cl. 355-55.000.

Fujiwara, Katsuyoshi; Miwa, Yoshihisa; and Yoshiura, Shoichiro, to Sharp Kabushiki Kaisha. Electrophotographic copying apparatus with a selecting means of magnification changing elements. 4,682,877, 7-28-87, Cl. 355-3.00R.

Fujiwara, Katsuyoshi; and Anzai, Shunju, to Sharp Kabushiki Kaisha. Light exposure controller. 4,714,945, 12-22-87, Cl. 355-69.000.

Fujiwara, Katsuyoshi: *See—*

Yamagishi, Toshio; and Fujiwara, Katsuyoshi, 4,714,941, Cl. 355-8.000.

Fujiwara, Kazuo; Tomari, Haruo; and Nakayama, Takenori, to Kabushiki Kaisha Kobe Seiko Sho. Nitrogen-containing dual phase stainless steel with improved hot workability. 4,664,725, 5-12-87, Cl. 148-325.000.

Fujiwara, Kazuo; Torii, Yasushi; Kitahata, Koujiro; Inoue, Tsuyoshi; and Yokoyama, Tadamasa, deceased (by Yokoyama, Keiko, legal heir and representative), to Kabushiki Kaisha Kobe Seiko Sho. Austenitic stainless steel with high corrosion resistance and high strength when heat treated. 4,689,198, 8-25-87, Cl. 420-47.000.

Fujiwara, Kenichi; Asano, Hideo; Hasada, Eiichi; Makida, Kazuhisa; and Iida, Akinori, to Nippondenso Co., Ltd. Refrigerator for vehicle. 4,637,222, 1-20-87, Cl. 62-244.000.

Fujiwara, Kenichi, to Hardglass Industry Co., Ltd. Door. 4,712,331, 12-15-87, Cl. 49-488.000.

Fujiwara, Kenichi: *See—*

Asano, Hideo; Makida, Kazuhisa; and Fujiwara, Kenichi, 4,696,627, Cl. 418-15.000.

Fujiwara, Kenji: *See—*

Kuromaru, Hiroshi; Morimoto, Tadakiyo; Kuwahara, Koji; Fujiwara, Kenji; Shimizu, Yujiro; Miyauchi, Reizo; Wakusawa, Kuniaki; Takama, Hideaki; Waseda, Masashi; and Fujita, Akihisa, 4,667,551, Cl. 83-72.000.

Fujiwara, Kiyoshi: *See—*

Muroi, Katsumi; Hiratsuka, Kosai; Yoshinaga, Shoji; Nakatsui, Toji; Oda, Chikao; and Fujiwara, Kiyoshi, 4,698,142, Cl. 204-182.300.

Fujiwara, Kohji: *See—*

Maeda, Yoshinobu; Fujiwara, Kohji; and Naito, Takao, 4,638,985, Cl. 269-244.000.

Fujiwara, Kouji: *See—*

Ito, Katsumi; Okuyama, Shigeaki; Nakamura, Norimi; Kuroiwa, Yoshizo; Fujiwara, Kouji; Nakamura, Kunisuke; Fujiwara, Osami; Yoshida, Jituo; and Kobayashi, Mitsugu, 4,671,376, Cl. 180-249.000.

Tajima, Shoichi; and Fujiwara, Kouji, 4,652,194, Cl. 411-417.000.

Fujiwara, Kouzou: *See—*

Degawa, Toru; Okuyama, Gen; Hashimoto, Akio; Uchida, Seiju; Fujiwara, Kouzou; Ebata, Makoto; Satou, Takashi; and Ototani, Tohei, 4,710,481, Cl. 501-123.000.

Fujiwara, Kozo: *See—*

Degawa, Toru; Fujiwara, Kozo; Hashimoto, Akio; Uchida, Seiju; Okuyama, Gen; and Matsui, Susumu, 4,695,427, Cl. 420-129.000.

Fujiwara, Kunio: *See—*

Tanaka, Gotaro; Fujiwara, Kunio; and Matsuda, Yasuo, 4,664,474, Cl. 350-96.340.

Fujiwara, Makoto; Yoneda, Hajime; and Okamoto, Masafumi, to Matsushita Electric Industrial Co., Ltd. Electric double layer capacitor. 4,709,303, 11-24-87, Cl. 361-433.000.

Fujiwara, Makoto: *See—*

Nakahara, Takafumi; Fujiwara, Makoto; Kondo, Motoe; Miyawaki, Yoshiharu; Hanmyo, Masayuki; Kinoshita, Shinya; Matsui, Masao; Tamura, Konoshin; and Murata, Susumu, 4,671,752, Cl. 425-7.000.

Fujiwara, Masahiro: *See—*

Sugimoto, Hiroaki; Hayatsu, Kazuo; and Fujiwara, Masahiro, 4,713,435, Cl. 528-179.000.

Fujiwara, Masakatsu; Kamitani, Yutaka; and Yamamura, Touru, to Sanyo Electric Co., Ltd. Dry developing method for latent image by one-component developer. 4,675,266, 6-23-87, Cl. 430-102.000.

Fujiwara, Masami; Fukuda, Hidenori; and Tanaka, Minako, to Lion Corporation. Aqueous vesicle dispersion having surface charge. 4,670,185, 6-2-87, Cl. 252-311.000.

Fujiwara, Masatoshi; and Kuroda, Masato, to Yamatake-Honeywell Co., Ltd. Electro-pneumatic pressure converter. 4,675,567, 6-23-87, Cl. 310-317.000.

Fujiwara, Masatoshi; Kuroda, Masato; and Shiga, Tatsuhide, to Yamatake-Honeywell Co., Ltd. Multicontrol process control system. 4,712,173, 12-8-87, Cl. 364-138.000.

Fujiwara, Masatoshi: *See—*

Doki, Yoshikuni; Fujiwara, Masatoshi; Shiga, Tatsuhide; Shono, Yohsuke; Tanaka, Mikio; and Tsuruoka, Yoshihiro, 4,649,359, Cl. 335-222.000.

Fujiwara, Michiaki, to Murata Kikai Kabushiki Kaisha. Spinning machine. 4,676,057, 6-30-87, Cl. 57-265.000.

Fujiwara, Michihiko: *See—*

Ishida, Yasuo; Fujiwara, Michihiko; Kinoshita, Toshio; and Nimura, Noriyuki, 4,670,403, Cl. 436-90.000.

Fujiwara, Michio; Kazumoto, Yoshio; Nomaguchi, Tamotsu; Tsuchino, Kazunori; Kawajiri, Kazuhiko; and Hisamori, Youichi, to Mitsubishi Denki Kabushiki Kaisha. Heat exchanger for a Stirling engine. 4,662,176, 5-5-87, Cl. 60-526.000.

Fujiwara, Michio: *See—*

Kawajiri, Kazuhiko; Fujiwara, Michio; Tsuchino, Kazunori; and Hisamori, Youichi, 4,711,091, Cl. 60-517.000.

Fujiwara, Mikio, to Ikeda Bussan Co., Ltd. Seat with armrests adapted to support tray. 4,668,010, 5-26-87, Cl. 297-150.000.

Fujiwara, Naohisa, to Mitsubishi Denki Kabushiki Kaisha. Selectively enabled image signal processing circuit using recursive filtering. 4,701,787, 10-20-87, Cl. 358-36.000.

Fujiwara, Norio; Takahashi, Nobuyuki; and Otsuki, Akihiro, to Fuji Electric Co., Ltd. Magnetic recording medium. 4,713,279, 12-15-87, Cl. 428-142.000.

Fujiwara, Osami: *See—*

Ito, Katsumi; Okuyama, Shigeaki; Nakamura, Norimi; Kuroiwa, Yoshizo; Fujiwara, Kouji; Nakamura, Kunisuke; Fujiwara, Osami; Yoshida, Jituo; and Kobayashi, Mitsugu, 4,671,376, Cl. 180-249.000.

Fujiwara, Osamu: *See—*

Hasegawa, Kazuo; and Fujiwara, Osamu, 4,670,866, Cl. 369-36.000.

Tsutsumi, Masaru; Hagino, Hideo; Fujiwara, Osamu; and Goto, Hitoshi, 4,642,274, Cl. 429-35.000.

Tsutsumi, Masaru; Hagino, Hideo; and Fujiwara, Osamu, 4,670,361, Cl. 429-34.000.

Fujiwara, Ryoji; and Shimizu, Isamu, to Canon Kabushiki Kaisha. Transparent electroconductive film. 4,670,334, 6-2-87, Cl. 428-336.000.

Fujiwara, Satoru; Mochizuki, Teiichi; Maeda, Kensaku; and Nagashima, Yutaka. Device for collecting lubricating oil in a turbo-refrigerator. 4,671,081, 6-9-87, Cl. 62-469.000.

Fujiwara, Satoru: *See—*

Maeda, Kensaku; Fujiwara, Satoru; Mochizuki, Teiichi; and Nagashima, Yutaka, 4,669,279, Cl. 62-505.000.

Maeda, Kensaku; Fujiwara, Satoru; and Mochizuki, Teiichi, 4,671,082, Cl. 62-515.000.

Fujiwara, Setuzo: *See—*

Hashizume, Masatora; Kudoh, Eiichi; Fujiwara, Setuzo; and Shiomi, Hitomi, 4,707,893, Cl. 24-446.000.

Fujiwara, Shigemi; Koyama, Katsuhide; and Kageyama, Hiroshi, to Kabushiki Kaisha Toshiba. Radiographic system including a transport system having two independent portions for serial continuous transporting of image plates. 4,659,929, 4-21-87, Cl. 250-327.200.

Fujiwara, Shigemi; Koyama, Katsuhide; and Kageyama, Hiroshi, to Kabushiki Kaisha Toshiba. Radiographic system including a light tight receiving magazine. 4,663,528, 5-5-87, Cl. 250-327.200.

Fujiwara, Shigemi; Koyama, Katsuhide; and Kageyama, Hiroshi, to Kabushiki Kaisha Toshiba. Bar code reader system. 4,672,184, 6-9-87, Cl. 235-462.000.

Fujiwara, Shigemi: *See—*

Kageyama, Hiroshi; Koyama, Katsuhide; and Fujiwara, Shigemi, 4,703,178, Cl. 250-327.200.

Koyama, Katsuhide; Fujiwara, Shigemi; and Kageyama, Hiroshi, 4,663,527, Cl. 250-327.200.

Koyama, Katsuhide; Fujiwara, Shigemi; and Kageyama, Hiroshi, 4,667,102, Cl. 250-327.200.

Fujiwara, Shinji: *See—*

Miyata, Yutaka; Chikamura, Takao; and Fujiwara, Shinji, 4,670,766, Cl. 357-30.000.

Ohta, Yoshio; Chikamura, Takao; Miyata, Yutaka; Yano, Kohsaku; and Fujiwara, Shinji, 4,661,830, Cl. 357-30.000.

Fujiwara, Shinobu; Satoh, Atsushi; Hattori, Tetsuya; and Sutoh, Junichi, to TDK Corporation. High dielectric porcelain composition and method of reducing sintering temperature thereof. 4,692,422, 9-8-87, Cl. 501-136.000.

Fujiwara, Shuetsu; Andoh, Naoki; and Hosotani, Kenji, to Japan Synthetic Rubber Co., Ltd. Process for producing benzophenone tetracarboxylic dianhydride. 4,684,738, 8-4-87, Cl. 549-242.000.

Fujiwara, Sigemi: *See—*

Maehara, Yasunori; Fujiwara, Sigemi; Koyama, Katsuhide; Tamura, Kaoru; Kawai, Yasuhiro; and Watanabe, Kazuya, 4,697,902, Cl. 354-281.000.

Fujiwara, Tadashi: *See—*

Komatsu, Kousuke; Miyauchi, Tsutomu; Misao, Ikuo; Kimura, Mutsumi; Fujiwara, Tadashi; Tsuchida, Yoshio; and Kuroiwa, Junko, 4,646,134, Cl. 358-11.000.

Fujiwara, Takayoshi, to Kabushiki Kaisha Toshiba. Method for manufacturing valve covers of compressor. 4,667,387, 5-26-87, Cl. 29-157.00R.

Fujiwara, Takayoshi: *See—*

Kodama, Mikio; Ito, Akitoshi; Yano, Motoichi; Fujiwara, Takayoshi; and Umeyama, Satoshi, 4,705,827, Cl. 525-67.000.

Fujiwara, Takeshi: *See—*

Koshigoe, Shinpei; and Fujiwara, Takeshi, 4,641,058, Cl. 313-449.000.

Fujiwara, Takuji: *See—*

Aoyama, Mizuki; and Fujiwara, Takuji, 4,688,452, Cl. 74-869.000.

Fujiwara, Tamio: *See—*

Hirota, Kazumi; and Fujiwara, Tamio, 4,650,088, Cl. 220-270.000.

Matsubayashi, Hiroshi; Hirota, Kazumi; Iwamoto, Hisao; Fujiwara, Tamio; Sato, Nobuyuki; and Katsura, Tadahiko, 4,686,152, Cl. 428-607.000.

Fujiwara, Tatsuro; Ohta, Kazuyo; and Hirano, Takao, to Toyo Jozo Kabushiki Kaisha. 3-o-acyl 4''-deoxydesmycosin derivatives. 4,652,638, 3-24-87, Cl. 536-7.100.

Fujiwara, Tatsuro; Ohta, Kazuyo; Honda, Eiichi; Hirano, Takao; and Sakakibara, Hideo, to Toyo Jozo Kabushiki Kaisha. 23-O-substituted carbamoyl-23-demycinosyldesmycosin. 4,661,588, 4-28-87, Cl. 536-7.100.

Fujiwara, Teiichi: *See—*

Kyoden, Hiroshi; Endo, Yasuhiro; Fujiwara, Teiichi; Mimura, Toshisada; Nishikawa, Kihachiro; and Nishizawa, Shoichi, 4,636,969, Cl. 364-560.000.

Fujiwara, Tetsuo: *See—*

Inaba, Michihiko; Fujiwara, Tetsuo; Kanto, Masaharu; Ohtake, Yasuhisa; and Mori, Fumio, 4,698,545, Cl. 313-402.000.

Uzawa, Sumiyo; Fujiwara, Tetsuo; Suzuki, Isao; and Endo, Akira, 4,652,157, Cl. 400-124.000.

Fujiwara, Toyohiro: *See—*

Ota, Makoto; Naito, Akira; and Fujiwara, Toyohiro, 4,668,036, Cl. 339-45.00R.

Fujiwara, Tsutomu; Matsuda, Susumu; Murakami, Keisuke; Ogawa, Izumi; Tago, Mamoru; Aoki, Chihiro; Doi, Masahiro; and Anno, Hiroshi, to Tokyo Electric Co., Ltd. Sheet supply device. 4,711,443, 12-8-87, Cl. 271-126.000.

Fujiwara, Yoshihiro: *See—*

Yamada, Takahiro; and Fujiwara, Yoshihiro, 4,665,325, Cl. 307-311.000.

Fujiwara, Yoshinari: *See—*

Tabata, Toshikazu; Fujiwara, Yoshinari; Yoda, Norio; and Aikawa, Hiroshi, 4,679,778, Cl. 267-140.100.

Tabata, Toshiyuki; Aikawa, Hiroshi; Fujiwara, Yoshinari; and Yoda, Norio, 4,708,329, Cl. 267-140.100.

Fujiwara, Yoshio: *See—*

Kobayashi, Naotake; Abe, Tetsuya; Shinohara, Satoru; and Fujiwara, Yoshio, 4,651,645, Cl. 101-470.000.

Kobayashi, Naotake; Abe, Tetsuya; Satoru, Shinohara; and Fujiwara, Yoshio, 4,666,320, Cl. 400-241.100.

Kobayashi, Naotake; Abe, Tetsuya; and Fujiwara, Yoshio, 4,668,560, Cl. 428-195.000.

Fujiwhara, Mitsuto; Nimura, Takao; Numata, Yasumasa; and Matsubara, Yasuko, to Konishiroku Photo Industry Co., Ltd. Silver halide color photo-sensitive material. 4,690,888, 9-1-87, Cl. 430-549.000.

Fujiyama, Kunio, to Takara Company. Barber and beauty parlor chair. 4,711,486, 12-8-87, Cl. 297-71.000.

Fujiyama, Masaaki; Tsuji, Nobuo; and Yamaguchi, Nobutaka, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,668,568, 5-26-87, Cl. 428-323.000.

Fujiyama, Masaaki: *See—*

Asai, Takamitsu; and Fujiyama, Masaaki, 4,657,813, Cl. 428-328.000.

Asai, Takamitsu; and Fujiyama, Masaaki, 4,657,814, Cl. 428-329.000.

Asai, Takamitsu; and Fujiyama, Masaaki, 4,666,770, Cl. 428-323.000.

Miyoshi, Takahito; and Fujiyama, Masaaki, 4,643,941, Cl. 428-323.000.

Miyoshi, Takahito; Kasuga, Akira; and Fujiyama, Masaaki, 4,652,958, Cl. 360-128.000.

Miyoshi, Takahito; Okutu, Toshimitu; Utumi, Masahiro; Fujiyama, Masaaki; and Aoki, Nobuo, 4,670,333, Cl. 428-323.000.

Miyoshi, Takahito; Fujiyama, Masaaki; Okutu, Toshimitu; Masuyama, Kenichi; and Nasu, Norio, 4,678,697, Cl. 428-141.000.

Miyoshi, Takahito; and Fujiyama, Masaaki, 4,687,703, Cl. 428-323.000.

Miyoshi, Takahito; Matsufuji, Akihiro; Yamamoto, Nobuyuki; Miyatsuka, Hajime; and Fujiyama, Masaaki, 4,687,704, Cl. 428-328.000.

Miyoshi, Takahito; Okutsu, Toshimitu; and Fujiyama, Masaaki, 4,687,706, Cl. 428-330.000.

Miyoshi, Takahito; and Fujiyama, Masaaki, 4,689,265, Cl. 428-323.000.

Miyoshi, Takahito; Fujiyama, Masaaki; Matsufuji, Akihiro; and Yamamoto, Nobuyuki, 4,690,863, Cl. 428-328.000.

Miyoshi, Takahito; Aoki, Nobuo; Yoneyama, Takashi; Kasuga, Akira; Okutu, Toshimitu; Fujiyama, Masaaki; and Okuzawa, Yasutoshi, 4,696,859, Cl. 428-323.000.

Miyoshi, Takahito; Kasuga, Akira; and Fujiyama, Masaaki, 4,701,364, Cl. 428-141.000.

Tokunaga, Fumihiro; Asai, Takamitsu; and Fujiyama, Masaaki, 4,656,088, Cl. 428-323.000.

Tokunaga, Fumihiro; Asai, Takamitsu; and Fujiyama, Masaaki, 4,678,706, Cl. 428-323.000.

Yamaguchi, Nobutaka; Fujiyama, Masaaki; Kato, Kazuo; and Kashiwagi, Akira, 4,647,503, Cl. 428-323.000.

Yamaguchi, Nobutaka; Miyoshi, Takahito; Okutu, Toshimitu; Hibino, Noburo; Tadokoro, Eiichi; and Fujiyama, Masaaki, 4,650,720, Cl. 428-480.000.

Fujiyama, Seiichi: *See—*

Entani, Etsuzo; Fujiyama, Seiichi; Ohmori, Shoji; and Masai, Hiroshi, 4,654,306, Cl. 435-253.000.

Fujiyama, Seiki; and Lee, Myonghi, to Sillony Company Limited. Editing system of educational program for a computer assisted instruction system. 4,712,180, 12-8-87, Cl. 364-419.000.

Fujiyama, Yasutomo, to Canon Kabushiki Kaisha. Vacuum plasma treatment apparatus. 4,633,812, 1-6-87, Cl. 118-723.000.

Fujiyama, Yasutomo, to Canon Kabushiki Kaisha. Gaseous phase method accumulated film manufacturing apparatus. 4,646,681, 3-3-87, Cl. 118-730.000.

Fujiyama, Yasutomo, to Canon Kabushiki Kaisha. Plasma CVD apparatus. 4,648,348, 3-10-87, Cl. 118-723.000.

Fujiyama, Yasutomo, to Canon Kabushiki Kaisha. Layer forming apparatus. 4,709,656, 12-1-87, Cl. 118-723.000.

Fujiyama, Yasutomo: *See—*

Kamiya, Osamu; Fujiyama, Yasutomo; Ogawa, Kyosuke; and Kurokawa, Takashi, 4,637,342, Cl. 118-719.000.

Kamiya, Osamu; Nishida, Keijiro; Fujiyama, Yasutomo; and Ogawa, Kyosuke, 4,666,734, Cl. 427-39.000.

Fujiyasu, Hiroshi; Kurosawa, Yoshiki; and Kaneko, Masaru, to Koito Seisakusho Co., Ltd. Method and apparatus for forming crystalline films of compounds. 4,662,981, 5-5-87, Cl. 156-610.000.

Fujiyasu, Hiroshi; Kurosawa, Yoshiki; and Kaneko, Masaru, to Koito Seisakusho Co., Ltd. 7C apparatus for forming crystalline films of compounds. 4,668,480, 5-26-87, Cl. 422-247.000.

Fujizoki Pharmaceutical Co., Ltd.: *See—*

Sugiyama, Masami; and Kasahara, Yasushi, 4,634,763, Cl. 530-375.000.

Fukada, Atsushi: *See—*

Hoshinouchi, Susumu; Kanaoka, Masaru; and Fukada, Atsushi, 4,689,466, Cl. 219-121.00L.

Kawazu, Akinobu; Fukada, Atsushi; and Hoshinouchi, Susumu, 4,686,349, Cl. 219-121.00L.

Fukada, Hiroo, to Toso Company, Limited. A curtain runner with an axially removable rod. 4,675,939, 6-30-87, Cl. 16-87.200.

Fukada, Koichi: *See—*

Sugimoto, Hiroshi; and Fukada, Koichi, 4,649,743, Cl. 73-162.00

Fukada, Tetsuji: *See—*

Ueshiba, Nozomu; Fukada, Tetsuji; and Ise, Yukihiko, 4,685,767, Cl. 350-255.000.

Fukada, Tsuyoshi; Suzuki, Yasutoshi; Itoh, Hiroshi; Ohmi, Shinya; and Hara, Kunihiko, to Nippondenso Co., Ltd. Detection of manipulation of position apparatus for dazzle-free mirror. 4,669,827, 6-2-87, Cl. 350-338.000.

Fukada, Tsuyoshi; Suzuki, Yasutoshi; Itoh, Hiroshi; Ohmi, Shinya; and Hara, Kunihiko, to Nippondenso Co., Ltd. Control apparatus for a dazzle-free reflection mirror of a vehicle. 4,671,615, 6-9-87, Cl. 350-331.00R.

Fukada, Tsuyoshi: *See—*

Itoh, Hiroshi; Suzuki, Yasutoshi; Ohmi, Shinya; Fukada, Tsuyoshi; and Hara, Kunihiko, 4,669,825, Cl. 350-332.000.

Itoh, Hiroshi; Ohmi, Shinya; Suzuki, Yasutoshi; Fukada, Tsuyoshi; and Hara, Kunihiko, 4,669,826, Cl. 350-331.00R.

Itoh, Hiroshi; Ohmi, Shinya; Suzuki, Yasutoshi; Fukada, Tsuyoshi; and Hara, Kunihiko, 4,676,601, Cl. 350-331.00R.

Itoh, Hiroshi; Suzuki, Yasutoshi; Fukada, Tsuyoshi; Ohmi, Shinya; and Hara, Kunihiko, 4,687,956, Cl. 307-310.000.

Suzuki, Yasutoshi; Ohmi, Shinya; Fukada, Tsuyoshi; Itoh, Hiroshi; and Hara, Kunihiko, 4,655,549, Cl. 350-331.00R.

Fukae, Kenneth, to Amada Engineering & Service Co., Inc. Slab geometry laser device. 4,653,061, 3-24-87, Cl. 372-66.000.

Fukae, Kensuke; and Yamashita, Keitaro, to Kentek Information Systems, Inc. Printer/copier with disposable toner cartridge. 4,639,11 1-27-87, Cl. 355-3.0DD.

Fukae, Kensuke; Kaieda, Shozo; and Matsunaga, Yoshiaki, to Kentek Information Systems, Inc. Electrophotographic printer/copier 4,664,507, 5-12-87, Cl. 355-3.0SH.

Fukagawa, Hiroshi: *See—*

Ishikawa, Takashi; Fukagawa, Hiroshi; and Matsui, Hiroyasu, 4,713,696, Cl. 358-261.000.

Fukahori, Hidehiko: *See—*

Fujino, Masahisa; Fukahori, Hidehiko; and Satoh, Toshihiko, 4,681,417, Cl. 354-234.100.

Fukahori, Kiyoshi; and Glad, Thomas, to Silicon Systems, Inc. MOS Switched capacitor automatic gain control circuit. 4,691,172, 9-1-87, Cl. 330-129.000.

Fukahori, Yoshihide: *See—*

Utsunomiya, Tadashi; Matsumuro, Yasuhiko; Sato, Keiji; Fukahori, Yoshihide; and Ogawa, Masao, 4,674,622, Cl. 198-500.000.

Fukai, Isamu; and Azami, Katsumasa, to Sanden Corporation. Cylinder head for refrigerant compressor. 4,693,674, 9-15-87, Cl. 417-269.000

Fukai, Masayuki: *See—*

Yamada, Hiroshi; Iioka, Michihiro; Sugano, Akira; Takita, Atsushi; Nigawara, Seiitsu; and Fukai, Masayuki, 4,707,778, Cl. 364-132.000.

Fukai; Nobutaka; Ohara, Yuji; and Agano, Toshitaka, to Fuji Photo Film Co., Ltd. Method of driving galvanometer mirror. 4,648,685, 3-10-87, Cl. 350-6.600.

Fukai, Toshimasa: *See—*

Tamaki, Nobuaki; Sakuma, Shinzo; Fukai, Toshimasa; and Takihana, Masatoshi, 4,707,577, Cl. 200-144.00B.

Fukai, Yoshio; and Goto, Shigeru, to Yokogawa Hokushin Electric Corporation. Electromagnetic flowmeter. 4,651,286, 3-17-87, Cl. 364-510.000.

Fukakura, Katsuya: *See—*

Matsumoto, Tadashi; and Fukakura, Katsuya, 4,657,206, Cl. 292-173.000.

Fukakusa, Shinji: *See—*

Wakayama, Naoaki; Yamagishi, Hideshi; Fukakusa, Shinji; and Tomoda, Toshimasa, 4,682,036, Cl. 250-374.000.

Fukamachi, Rikuo. Motor driven valve. 4,669,578, 6-2-87, Cl. 185-40.00R.

Fukamachi, Toshio; Matsuda, Kazuto; Noma, Kouichi; Kawada, Toshiaki; Sakurai, Toshio; and Osawa, Takeshi, to Tokyo Sanyo Electric Co. Ultrasonic humidifier. 4,643,351, 2-17-87, Cl. 236-44.00E.

Fukami, Akira; Oshiro, Takao; and Sasaya, Hideaki, to Nippon Soken Inc. Dual-function car spoiler. 4,678,118, 7-7-87, Cl. 237-12.30B.

Fukami, Akira: *See—*
  Kobayashi, Toshiki; Fukami, Akira; Mizuno, Junzi; and Sasaya, Hideaki. 4,660,879, Cl. 296-1.00S.
  Miyoshi, Akio, and Fukami, Akira. 4,640,436, Cl. 220-359.000
  Noguchi, Hiroki; Kobayashi, Toshiki; Fukami, Akira; Hattori, Tadashi; Sakakibara, Nobuyoshi; and Nabeta, Teiichi, 4,689,056, Cl. 55-138.000.
  Sakakibara, Nobuyoshi; Hattori, Tadashi; Miura, Kazuhiko; Noguchi, Hiroki; Fukami, Akira; and Nabeta, Teiichi, 4,643,745, Cl. 55-137.000.
  Sakakibara, Nobuyoshi; Hattori, Tadashi; Miura, Kazuhiko; Noguchi, Hiroki; Fukami, Akira; and Nabeta, Teiichi, 4,673,416, Cl. 55-137.000.

Fukami, Harukazu; Kikumoto, Ryoji; Nakao, Kenichiro; Nitta, Issei; and Inoue, Shinya, to Mitsubishi Chemical Industries Limited. Phenylpiperazine derivatives and their acid addition salts. 4,716,161, 12-29-87, Cl. 514-222.000.

Fukami, Harukazu: *See—*
  Kikumoto, Ryoji; Fukami, Harukazu; Nakao, Kenichiro; and Sugano, Mamoru, 4,684,651, Cl. 514-253.000.
  Kikumoto, Ryoji; Fukami, Harukazu; Nakao, Kenichiro; and Sugano, Mamoru, 4,684,739, Cl. 544-350.000.

Fukami, Kazuaki: *See—*
  Yasuo, Nakano; Fukami, Kazuaki; and Nishimoto, Yukimasa. 4,703,839, Cl. 188-346.000.

Fukami, Shoji: *See—*
  Hirano, Takahisa; Fukami, Shoji; Maruiwa, Yasuharu; Itoh, Takuyuki; Sugimoto, Tamio; Ono, Tetsuo; and Mukai, Masatoshi, 4,666,380, Cl. 418-55.000.
  Hirano, Takahisa; Fukami, Shoji; and Maeda, Mitsutosho, 4,678,416, Cl. 418-55.000.
  Hirano, Takahisa; Fukami, Shoji; Maruiwa, Yasuhara; Itoh, Takuyuki; Sugimoto, Tamio; Ono, Tetsuo; and Mukai, Masatoshi, 4,696,084, Cl. 29-156.40R.

Fukami, Tadashi; and Odaka, Kentaro, to Sony Corporation. Method for uniformly encoding data occurring with different word lengths. 4,688,225, 8-18-87, Cl. 371-37.000.

Fukami, Tadashi: *See—*
  Odaka, Kentaro; Fukami, Tadashi; and Ozaki, Shinya, 4,646,171, Cl. 360-32.000.
  Odaka, Kentaro; Fukami, Tadashi; and Ozaki, Shinya, 4,669,000, Cl. 360-32.000.

Fukami, Takeshi: *See—*
  Sakamoto, Akira; Fukami, Takeshi; Sugita, Takehiro; and Toyoshima, Masakatsu, 4,683,586, Cl. 380-48.000.

Fukamizu, Hiroshi; Nakano, Masaji; Iba, Kunio; Yamasaki, Taro; and Sano, Kenji, to Omron Tateisi Electronics Co. Road surface condition detection system. 4,690,553, 9-1-87, Cl. 356-51.000.

Fukano, Michio; and Hojo, Takeshi, to Kabushikikaisha Tokyo Keiki. Accelerometer. 4,649,748, 3-17-87, Cl. 73-517.00B.

Fukano, Michio: *See—*
  Hojo, Takeshi; Fukano, Michio; Saijo, Takashi; and Sato, Kazuteru, 4,653,325, Cl. 73-505.000.
  Hojo, Takeshi; Kawada, Shin-Ichi; Fukano, Michio; Yamamoto, Kanshi; Okamura, Youji; Sato, Kazuteru; Saito, Masahiko; and Hane, Fuyuki, 4,694,696, Cl. 73-497.000.

Fukao, Kouichi: *See—*
  Furuhashi, Kenshi; Ito, Hiroyasu; and Fukao, Kouichi, 4,647,736, Cl. 200-61.270.

Fukao, Masami: *See—*
  Suzukamo, Gohfu; and Fukao, Masami, 4,644,080, Cl. 560-124.000
  Suzukamo, Gohfu; and Fukao, Masami, 4,659,864, Cl. 560-124.000
  Suzukamo, Gohfu; Fukao, Masami; Minobe, Masao; and Sakamoto, Akemi, 4,711,873, Cl. 502-344.000.

Fukao, Osamu: *See—*
  Koshi, Minekazu; Fukao, Osamu; Saito, Taisuke; Sakan, Tatsuo; and Nakahara, Seiichi, 4,647,697, Cl. 564-249.000.

Fukasawa, Akira: *See—*
  Kotera, Norio; Uegaki, Masatoshi; Yoshimura, Masakatsu; Masaki, Shinzaburo; Kaneoya, Tatsuo; Miyaoka, Takashi; Maegawa, Yuzo; and Fukasawa, Akira, 4,695,407, Cl. 760-378.000.

Fukasawa, Atsushi; Hosoda, Kenichiro; Miyamoto, Ryoichi; Ando, Hiromi; and Kawaguchi, Shinji, to Oki Electric Industry Co., Ltd. Adaptive digital filter. 4,660,163, 4-21-87, Cl. 364-724.000.

Fukasawa, Atsushi; Hosoda, Kenichiro; Sato, Takuro; and Yoshida, Tatumasa, to OKI Electronics Co., Ltd. Dielectric filter having trimmable capacitor. 4,692,725, 9-8-87, Cl. 333 203.000.

Fukasawa, Atsushi; Sato, Takuro; Akiyama, Haruhiko; and Kawabe, Manabu, to Oki Electric Industry Co., Ltd. Adaptively coded data communication system with half duplex and/or full duplex function. 4,701,923, 10-20-87, Cl. 371-41.000.

Fukasawa, Masatomo: *See—*
  Yamada, Hirotada; Masai, Naruhito; Ueda, Sinji; Okuda, Takao; Fukasawa, Masatomo; Kato, Masuhiro; and Fukumura, Masataka, 4,705,784, Cl. 514-202.000.

Fukasawa, Minoru, to Sanyo Electric Co., Ltd. Induction heating apparatus with unsuitable load detecting circuit. 4,686,340, 8-11-87, Cl. 219-10.770.

Fukasawa, Minoru, to Sanyo Electric Co., Ltd. Oscillation control circuit of an induction heating apparatus. 4,701,588, 10-20-87, Cl. 219-10.770.

Fukasawa, Nobuaki: *See—*
  Hakoyama, Akiyoshi; Sasaki, Akira; and Fukasawa, Nobuaki, 4,652,155, Cl. 400-120.000.

Fukasawa, Takeshi; and Uemura, Isamu, to Kokusan Kinzoku Kogyo Kabushiki Kaisha. Automotive outside door handle unit. 4,634,161, 1-6-87, Cl. 292-336.300.

Fukasawa, Tetsuo; Ohtsuka, Masaharu; Uetake, Naohito; and Ozawa, Yoshihiro, to Hitachi, Ltd. Method for solidifying radioactive waste. 4,659,511, 4-21-87, Cl. 252-628.000.

Fukasawa, Tetsuo; Kawamura, Fumio; and Kikuchi, Makoto, to Hitachi, Ltd. Method of solidifying radioactive solid waste. 4,708,822, 11-24-87, Cl. 252-628.000.

Fukase, Hiroshi: *See—*
  Horii, Satoshi; Kameda, Yukihiko; and Fukase, Hiroshi, 4,701,559, Cl. 564-363.000.

Fukase, Hisahiko: *See—*
  Matsui, Kunio; Fukase, Hisahiko; and Nomura, Akihiro, 4,694,887, Cl. 164-428.000.

Fukatani, Yasunobu, to Kabushiki Kaisha Daikin Seisakusho. Diaphragm spring holding structure for clutch cover assembly. 4,660,695, 4-28-87, Cl. 192-89.00B.

Fukatsu, Hiroshi: *See—*
  Tsuge, Eiji; Yanagisawa, Taminori; Yamaguchi, Takaharu; and Fukatsu, Hiroshi, 4,634,338, Cl. 414-752.000.

Fukatsu, Kiyoshi: *See—*
  Murayama, Akira; Kuno, Hiroaki; Uchikawa, Naoshi; Tamura, Takahiro; Mizuno, Takao; Aiba, Kazumi; Ikeda, Mitsuo; and Fukatsu, Kiyoshi, 4,690,625, Cl. 418-55.000

Fukatsu, Shunzo: *See—*
  Shibahara, Seiji; Okonogy, Tsuneo; Murai, Yasushi; Fukatsu, Shunzo; Niida, Taro; Christensen, Burton G.; and Wakazawa, Tadashi, 4,645,769, Cl. 514-210.000.
  Yamamoto, Yuichi; Yoshida, Takashi; Fukatsu, Shunzo; and Ishimaru, Toshiyasu, 4,687,769, Cl. 514-202.000.

Fukatsu, Takeo, to Mitsubishi Denki Kabushiki Kaisha. Porcelain clad current transformer. 4,644,314, 2-17-87, Cl. 336-58.000.

Fukatsu, Takeo; Takeuchi, Masaru; and Goto, Kazuyuki, to Sanyo Electric Co., Ltd. Photovoltaic cell. 4,680,607, 7-14-87, Cl. 357-30.000.

Fukatsu, Takeo; Goto, Kazuyuki; Haku, Hisao; and Kuwano, Yukinori, to Sanyo Electric Co., Ltd. Electrophotographic photosensitive member. 4,681,826, 7-21-87, Cl. 430-65.000.

Fukatsu, Takeo; Takeuchi, Masaru; and Gotoh, Kazuyuki, to Sanyo Electric Co., Ltd. Photovoltaic device. 4,689,438, 8-25-87, Cl. 136-256.000.

Fukatsu, Takeo: *See—*
  Minami, Koji; Goto, Kazuyuki; Haku, Hisao; Fukatsu, Takeo; Ohnishi, Michitoshi; and Kuwano, Yukinori, 4,670,367, Cl. 430-57.000.

Fukawa, Kazunaga; Bando, Kazuyoshi; Hatanaka, Yoshikazu; and Nakazato, Kikuo, to Grelan Pharmaceutical Co., Ltd. Tetrahydroindole derivative as medicament for cerebral apoplexy. 4,652,581, 3-24-87, Cl. 514-418.000.

Fukawatase, Katsushi: *See—*
  Obe, Mitsuhiko; Kawai, Isamu; Nakata, Masaru; Oisi, Katumi; Shimizu, Yosaburo; Fukawatase, Katsushi; Nishikawa, Takao; Hinoue, Kenji; Arisawa, Susumu; Sato, Kenichi; Kurata, Yasunori; and Sato, Kengo, 4,650,242, Cl. 296-190.000

Fukawatase, Midori: *See—*
  Khe, Nguyen C.; Nakamura, Masanobu; Fukawatase, Midori; and Takahashi, Kenji. 4,699,862, Cl. 430-93.000.

Fukaya, Chikara: *See—*
  Yokoyama, Kazumasa; Fukaya, Chikara; Tsuda, Yoshio; Ono, Taizo; Arakawa, Yoshio; Inoue, Yoshihisa; Naito, Youichiro; and Suyama, Tadakazu, 4,654,337, Cl. 514-214.000.
  Yokoyama, Kazumasa; Fukaya, Chikara; Tsuda, Yoshio; Ono, Taizo; Arakawa, Yoshio; and Suyama, Tadakazu, 4,713,459, Cl. 546-150.000.

Fukaya, Hideshi; Hoshii, Toshifumi; and Yuzawa, Keiji, to Casio Computer Co., Ltd. Automatic performance apparatus. 4,633,751, 1-6-87, Cl. 84-1.030.

Fukaya, Kuniaki: *See—*
  Fukukita, Hiroshi; Tachita, Ryobun; Fukaya, Kuniaki; and Yano, Tsutomu, 4,641,260, Cl. 364-737.000.

Fukaya, Masaki; Komatsu, Toshiyuki; Shoji, Tatsumi; Kamio, Masaru; and Sekimura, Nobuyuki, to Canon Kabushiki Kaisha. Color photosensor utilizing color filters. 4,700,080, 10-13-87, Cl. 250-578.000.

Fukaya, Masaki: *See—*
  Furushima, Teruhiko; Masaki, Yuichi; Fukaya, Masaki; and Sekimura, Nobuyuki, 4,650,984, Cl. 250-211.00R.
  Itabashi, Satoshi; Kawakami, Soichiro; Terada, Katsunori; Suzuki, Hideyuki; Furushima, Teruhiko; and Fukaya, Masaki, 4,705,598, Cl. 156-643.000.
  Komatsu, Toshiyuki; Nakagawa, Katsumi; Fukaya, Masaki; and Shoji, Tatsumi, 4,658,280, Cl. 357-30.000.
  Sekimura, Nobuyuki; Fukaya, Masaki; Nakagawa, Katsumi; Komatsu, Toshiyuki; Shoji, Tatsumi; and Furushima, Teruhiko, 4,667,214, Cl. 357-30.000.

Fukaya, Masashi: *See—*
  Nishigaki, Susumu; Fukuda, Junzo; Fukaya, Masashi; and Yano, Shinsuke, 4,650,923, Cl. 174-68.500.

Fukaya, Naoki: *See—*
  Sugano, Takuo; Okabe, Yoichi; Miyake, Hideharu; and Fukaya, Naoki, 4,678,945, Cl. 307-476.000.

Fukaya, Soshichi: *See—*
  Sumii, Yoshiyuki; and Fukaya, Soshichi, 4,686,132, Cl. 428-171.000.

Fukaya, Takeo: *See—*
  Kishida, Takao; and Fukaya, Takeo, 4,640,118, Cl. 73-9.000.

Fukaya, Yasuhiro; and Minami, Nagio, to Mitsubishi Jukogyo Kabushiki Kaisha. Assembly of parts to be formed into a T-joint weld. 4,715,524, 12-29-87, Cl. 228-165.000.

Fukayama, Miyoji; and Ohnishi, Masayuki, to Toray Silicone Co., Ltd. Organosiloxane primer composition. 4,704,419, 11-3-87, Cl. 524-188.000.

Fukayama, Yukio, to Babcock-Hitachi Kabushiki Kaisha. Apparatus for controlling starting operation of boiler. 4,637,348, 1-20-87, Cl. 122-406.0ST.

Fukayama, Yukio, to Babcock-Hitachi Kabushiki Kaisha. Boiler starting system. 4,703,722, 11-3-87, Cl. 122-406.0ST.

Fukazawa, Nobuyuki: *See—*

Katakami, Tsutomu; Fukazawa, Nobuyuki; Iizuka, Hajime; Nishina, Takashi; Kamiya, Joji; Tanaka, Yasuhito; and Nakano, Takuo, 4,639,451, Cl. 514-247.000.

Fukazawa, Ryutaro; Kodama, Susumu; and Sato, Mieko, to Seiwa Technological Laboratories Limited. Cyclodextrin inclusion compound and process for its preparation. 4,675,395, 6-23-87, Cl. 536-103.000.

Fukazawa, Takao: *See—*

Ito, Tadashi; Jinnai, Koichiro; Koike, Takahisa; Murai, Toshiharu; Fukazawa, Takao, and Ishima, Kazumi, 4,642,653, Cl. 346-1.100.

Fukazawa, Takeshi; Kuno, Hironari; Okabe, Naoto; and Hara, Kunihiko, to Nippondenso Co., Ltd. Thermoelectric generating composite functioning apparatus. 4,653,443, 3-31-87, Cl. 123-145.00A.

Fukazawa, Tetsuo; and Yokoyama, Shigeyoshi, to Nihon Radiator Co., Ltd.; and Pacific Machinery & Engineering Co., Ltd. Reversible centrifugal pump. 4,676,714, 6-30-87, Cl. 415-72.000.

Fukazawa, Tetsuo; and Yokoyama, Shigeyoshi, to Nihon Radiator Co., Ltd.; and Pacific Machinery & Engineering Co., Ltd. Centrifugal pump. 4,708,585, 11-24-87, Cl. 415-72.000.

Fukazawa, Tokuumi: *See—*

Kobayashi, Toshio; Takagi, Kazumasa; and Fukazawa, Tokuumi, 4,691,983, Cl. 350-96.120.

Takagi, Kazumasa; and Fukazawa, Tokuumi, 4,647,781, Cl. 250-483.100.

Fukazawa, Toshihiko: *See—*

Takai, Kazuki; Kinoshita, Shigeo; Fukazawa, Toshihiko; and Kikuchi, Junichi, 4,672,478, Cl. 360-93.000.

Takai, Kazuki; Ito, Yukio; Kinoshita, Shigeo; Kikuchi, Junichi; and Fukazawa, Toshihiko, 4,688,122, Cl. 360-96.500.

Fukazawa, Toshio: *See—*

Kurihara, Kozo; Otsuka, Yuji; and Fukazawa, Toshio, 4,661,162, Cl. 106-169.000.

Fuke, Akira; Tokita, Yasuhiro; and Masuda, Katsuhiko, to Koito Seisakusho Co., Ltd. Electric control system for a metal ion laser. 4,701,925, 10-20-87, Cl. 372-38.000.

Fuke, Akira; Tokita, Yasuhiro; and Masuda, Katsuhiko, to Koito Seisakusho Co., Ltd. Metal ion laser protected against the deposition of metal vapor on brewster windows. 4,710,938, 12-1-87, Cl. 372-56.000.

Fuke, Takamichi, to Alps Electric Co., Ltd. Intermittent drive member. 4,638,677, 1-27-87, Cl. 74-84.00R.

Fuke, Takamichi, to Alps Electric Co., Ltd. Carriage moving mechanism for recording and reproducing device. 4,651,247, 3-17-87, Cl. 360-106.000.

Fuke, Takamichi, to Alps Electric Co., Ltd. Device for shifting carriage. 4,694,366, 9-15-87, Cl. 360-106.000.

Fuke, Takamichi; Aikawa, Chiaki; Watanabe, Takashi; and Hishi, Yuichi, to Alps Electric Co., Ltd. Head carriage moving mechanism of disk recording reproducing device. 4,700,251, 10-13-87, Cl. 360-106.000.

Fuke, Takamichi: *See—*

Kozawa, Kazuyoshi; and Fuke, Takamichi, 4,667,524, Cl. 74-89.150.

Unjo, Naoki; and Fuke, Takamichi, 4,659,952, Cl. 310-90.000.

Fukehara, Shinsuke: *See—*

Tanaka, Hiroshi; and Fukehara, Shinsuke, 4,694,354, Cl. 358-296.000.

Fukino, Kiyotaka: *See—*

Arai, Yoshihiro; Nahara, Akira; and Fukino, Kiyotaka, 4,652,483, Cl. 428-216.000.

Fukinuki, Takahiko, to Hitachi, Ltd. Television signal transmission system. 4,660,072, 4-21-87, Cl. 358-12.000.

Fukishima, Minoru; and Kunishi, Shinsuke, to Molex Incorporated. Electrical connector assembly. 4,681,393, 7-21-87, Cl. 439-851.000.

Fukita, Susumu, to Canon Kabushiki Kaisha. Holding apparatus for camera. 4,645,321, 2-24-87, Cl. 354-82.000.

Fuksa, Radek: *See—*

Marincic, Nikola; and Fuksa, Radek, 4,662,065, Cl. 29-623.100.

Fukube, Tsugio; Yamashita, Akinori; Hashimoto, Noboru; and Yamamoto, Hiroyuki, to Mazda Motor Corporation. Automobile fuel supply control. 4,656,988, 4-14-87, Cl. 123-489.000.

Fukuchi, Hiromichi: *See—*

Uematsu, Ryosuke; Ushioda, Toyoji; and Fukuchi, Hiromichi, 4,688,048, Cl. 346-1.100.

Fukuchi, Kiyoshi: *See—*

Nakamura, Michio; Tsunoda, Minoru; Murakami, Hiroshi; Matsui, Yuuji; Matsuhashi, Noriyasu; and Fukuchi, Kiyoshi, 4,653,762, Cl. 280-5.00A.

Fukuchi, Masakazu; and Haneda, Satoshi, to Konishiroku Photo Industry Co., Ltd. Developing method for electrophotography. 4,702,987, 10-27-87, Cl. 430-122.000.

Fukuchi, Masakazu: *See—*

Kimura, Kiyoshi; Okamoto, Yukio; Miwa, Tadashi; Fukuchi, Masakazu; Tarumi, Noriyoshi; and Ito, Kunio, 4,645,327, Cl. 355-3.00R.

Fukuchi, Shuzo; and Yamaguchi, Shigeru, to Nippon Shokubai Kagaku Kogyo Co., Ltd. Hydroxyl group-containing (meth)acrylate oligomer, prepolymer therefrom, and method for use thereof. 4,691,045, 9-1-87, Cl. 560-185.000.

Fukuda, Akimitsu: *See—*

Fujii, Haruki; Ikada, Shoji; Fukuda, Akimitsu; and Okamura, Yasuo, 4,637,840, Cl. 148-6.200.

Fukuda, David S.: *See—*

Mynderse, Jon S., and Fukuda, David S., 4,675,408, Cl. 546-138.000.

Turner, Jan R.; Krupinski, Veronica M.; Fukuda, David S.; and Baltz, Richard H., 4,656,258, Cl. 536-7.100.

Fukuda Denshi Co., Ltd.: *See—*

Asai, Toshio; and Nakaya, Yasuhiro, 4,637,399, Cl. 128-639.00

Asai, Toshio; Nakaya, Yasuhiro; and Onodera, Yasuaki, 4,681,11 Cl. 128-643.000.

Inoue, Hirokatsu; and Shimizu, Chuji, 4,653,502, Cl. 128-640.00

Osada, Soichi; Inoue, Hirokatsu; Shimizu, Chuji; Onodera, Yasuaki; Kobayashi, Ken-ichi; Kozima, Kazuo; and Shoda, Shigeyoshi, 4,653,500, Cl. 128-639.000.

Fukuda, Eisuke; Takeda, Yukio; Daido, Yoshimasa; Nakamura, Hiroshi; Sasaki, Susumu; and Takenaka, Sadao, to Fujitsu Limited. Radio communication system. 4,665,532, 5-12-87, Cl. 375-19.000.

Fukuda, Haruhiko: *See—*

Mochizuki, Manabu; Ikeda, Itsuo; Kurotori, Tsuneo; Shigaryo, Satoshi; Miyakawa, Seiichi; Kobayashi, Yuichi; Nonaka, Mitsuhiro; and Fukuda, Haruhiko, 4,669,859, Cl. 355-10.000.

Fukuda, Hidenori: *See—*

Fujiwara, Masami; Fukuda, Hidenori; and Tanaka, Minako, 4,670,785, Cl. 252-311.000.

Fukuda, Hideo; Ogawa, Takahira; and Fujii, Takao, to Hideo Fukuda. Method for producing hydrocarbon mixtures. 4,698,304, 10-6-87, Cl. 435-166.000.

Fukuda, Hirohiko: *See—*

Imaizumi, Hiroyuki; Inaba, Takihiro; Morita, Seishi; Takeno, Ryuko; Murotani, Yoshiharu; Fukuda, Hirohiko; Yoshida, Junichi; Tanaka, Kiyoshi; Takano, Shuntaro; and Saikawa, Isamu, 4,656,287, Cl. 548-194.000.

Fukuda, Hiroshi: *See—*

Matsuda, Kiichi; Tsuda, Toshitaka; Homma, Toshihiro; Fukuda, Hiroshi; Okazaki, Takeshi; and Maki, Shin-ichi, 4,668,987, Cl. 358-136.000.

Fukuda, Hiroyuki; Shigeta, Masatomo; Kaji, Hisatsugu; and Saitoh, Kuniyuki, to Kureha Kagaku Kogyo Kabushiki Kaisha. Process for preparing a carbonaceous five-layer fuel cell electrode substrate with elongated holes for feeding reactant gases. 4,686,072, 8-11-87, Cl. 264-29.500.

Fukuda, Hiroyuki: *See—*

Kaminaga, Tetsuo; Shigeta, Masatomo; and Fukuda, Hiroyuki, 4,675,094, Cl. 204-294.000.

Shigeta, Masatomo; Fukuda, Hiroyuki; Kaji, Hisatsugu; and Saitoh, Kuniyuki, 4,664,988, Cl. 429-44.000.

Shigeta, Masatomo; Saitoh, Kuniyuki; and Fukuda, Hiroyuki, 4,666,755, Cl. 428-188.000.

Shigeta, Masatomo; Saitoh, Kuniyuki; and Fukuda, Hiroyuki, 4,687,607, Cl. 264-29.500.

Fukuda, Hisashi: *See—*

Kakinuma, Hiroaki; Fukuda, Hisashi; and Nishikawa, Satoshi, 4,664,999, Cl. 430-67.000.

Fukuda, Hisatoshi; and Fujita, Mitsuo, to Victor Company of Japan, Ltd. Noise reduction circuit for a video signal. 4,646,153, 2-24-87, Cl. 358-167.000.

Fukuda, Junzo: *See—*

Nishigaki, Susumu; Fukuda, Junzo; Fukaya, Masashi; and Yano, Shinsuke, 4,650,923, Cl. 174-68.500.

Fukuda, Kanehiro: *See—*

Nagashima, Masayoshi; Takahashi, Tomohiko; Higure, Naoto; and Fukuda, Kanehiro, 4,642,659, Cl. 346-76.0PH.

Fukuda, Katsuyoshi: *See—*

Mikami, Hitoshi; Fukuda, Katsuyoshi; and Yasuami, Shigeru, 4,670,968, Cl. 29-576.00B.

Fukuda, Kazuichi, to Shoyo Engineering Company Limited. Shaft coupling with press fit coil springs forming resilient torque-transmitting elements. 4,639,237, 1-27-87, Cl. 464-65.000.

Fukuda, Kazumasa: *See—*

Morita, Haruyuki; Yoshinari, Jiro; and Fukuda, Kazumasa, 4,636,448, Cl. 428-607.000.

Morita, Haruyuki; Yoshinari, Jiro; and Fukuda, Kazumasa, 4,642,270, Cl. 428-621.000.

Fukuda, Keishi, to Shimizu Kagaku Kabushiki Kaisha. Method for the preparation of a food having desalinating activity. 4,664,916, 5-12-87, Cl. 424-195.100.

Fukuda, Ken; and Ueba, Hisaaki, to Kureha Kagaku Kogyo Kabushiki Kaisha; and Kureha Gosen Kabushiki Kaisha. Contact material for treating sewage of braided pile material. 4,690,849, 9-1-87, Cl. 428-91.000.

Fukuda, Kenichi: *See—*

Mori, Takashi; Fukuda, Kenichi; and Kurauchi, Yasuhiro, 4,707,234, Cl. 204-182.300.

Fukuda, Kenzow: *See—*

Makino, Kenzi; Akiyama, Shigeaki; Fukuda, Kenzow; and Sakata, Gozyo, 4,665,212, Cl. 560-61.000.

Fukuda, Kimio: *See—*

Ito, Bunsaku; Fukuda, Kimio; and Hara, Rikio, 4,690,856, Cl. 428-215.000.

Fukuda, Kiyoshi: *See—*

Matsumoto, Yoshio; Fujii, Toshio; Shinohara, Yoshinao; and Fukuda, Kiyoshi, 4,705,828, Cl. 525-232.000.

Shimbo, Masaru; Fukuda, Kiyoshi; and Ohwada, Yoshiaki, 4,638,552, Cl. 29-576.00J.

Shimbo, Masaru; and Fukuda, Kiyoshi, 4,671,846, Cl. 156-629.000.

Fukuda, Kumio; and Shimoma, Taketoshi, to Kabushiki Kaisha Toshiba. Color picture tube device. 4,656,390, 4-7-87, Cl. 313-409.000.

Fukuda, Kumio: *See—*

Shimoma, Taketoshi; and Fukuda, Kumio, 4,689,525, Cl. 315-370.000.

Fukuda, Mamoru. Interlocking surgical staple assembly. 4,676,245, 6-30-87, Cl. 128-334.00C.

Fukuda, Masahiro: *See—*

Takagi, Toshio; Fukuda, Masahiro; and Ohbu, Kazuo, 4,654,132, Cl. 204-182.800.

Fukuda, Masao; Kakita, Yukio; Ueda, Kenji; Terashima, Kiichi; and Bochi, Hiroshi, to Ishida Scales Mfg. Co., Ltd. Composite-motion drive unit and combinatorial weighing apparatus employing the same. 4,711,345, 12-8-87, Cl. 198-572.000.

Fukuda, Masao: *See—*

Kikuchi, Uhee; Nozaki, Hiroyoshi; Fukuda, Masao; and Satake, Toshihiko, 4,698,005, Cl. 425-163.000.

Fukuda, Masataka: *See—*

Saro, Tomohiko; Fujisawa, Noriyoshi; Fukuda, Masataka; and Suganuma, Tsuyoshi, 4,707,292, Cl. 252-174.160.

Fukuda, Masuo, to Sankei Giken Kogyo Kabushiki Kaisha. Muffler for internal combustion engine and method of manufacturing tubes for use therein. 4,637,491, 1-20-87, Cl. 181-265.000.

Fukuda, Masuo: *See—*

Ohno, Hiromitsu; Noritake, Yutaka; Owari, Kimimasa; and Fukuda, Masuo, 4,656,530, Cl. 60-276.000.

Fukuda, Michio; Fudo, Eiji; Tani, Koichi; and Kobayashi, Haruhito, to Sumitomo Electric Industries, Ltd.; and Sumitomo Wiring Systems, Ltd. Apparatus for fitting terminals and rubber stoppers on wires. 4,653,182, 3-31-87, Cl. 29-754.000.

Fukuda, Minoru; Takahashi, Hideaki; Sugiura, June; Tsuchiya, Fumio; and Kihara, Toshimasa, to Hitachi, Ltd. Semiconductor memory. 4,691,298, 9-1-87, Cl. 365-189.000.

Fukuda, Minoru: *See—*

Ueda, Haruhiko; Toyoda, Hidekazu; and Fukuda, Minoru, 4,657,901, Cl. 514-171.000.

Fukuda, Misao; Tsuda, Toshitaka; Murano, Kazuo; and Awata, Yutaka, to Fujitsu Limited. Digital transmission system. 4,679,188, 7-7-87, Cl. 370-29.000.

Fukuda, Mitsutoshi; Fukutomi, Makoto; Kogure, Osamu; and Miyoshi, Kazunori, to Nippon Telegraph & Telephone Corporation; and Toyo Soda Manufacturing Co., Ltd. Method for forming micro-patterns by development. 4,690,887, 9-1-87, Cl. 430-331.000.

Fukuda, Moritoshi, to Nifco Inc. Pivotal coupling device. 4,697,948, 10-6-87, Cl. 403-71.000.

Fukuda, Moritoshi: *See—*

Nakayama, Hiromichi; and Fukuda, Moritoshi, 4,691,416, Cl. 24-90.00B.

Fukuda, Norisuke; Sasaki, Yasuhito; and Watanabe, Fumio, to Kabushiki Kaisha Toshiba. Air conditioning apparatus. 4,671,458, 6-9-87, Cl. 236-49.000.

Fukuda, Noriyoshi; and Nagasawa, Ken, to Kawasaki Steel Corporation. Method of producing carbon materials. 4,637,906, 1-20-87, Cl. 264-29.100.

ukuda, Robert C.; and Chandra, Suresh, to United States of America, Army. Side-arm phase-conjugated laser. 4,709,368, 11-24-87, Cl. 372-10.000.

ukuda, Shigeho: *See—*

Kuwahara, Heikichi; Takahashi, Kenji; Yanagida, Takehiko; Nakayama, Wataru; Sugimoto, Shigeo; Nakayama, Yoshihiko; Yoshida, Hiromichi; Oizumi, Kiyoshi; Sasaki, Toshi; and Fukuda, Shigeho, 4,653,163, Cl. 29-157.30R.

Sasaki, Toshi; Yoshida, Hiromichi; Fukuda, Shigeho; Oizumi, Kiyoshi; Kakizaki, Kimio; Nakayama, Wataru; Daikoku, Takahiro; Nakajima, Tadakatsu; and Nakayama, Yoshihiko, 4,678,029, Cl. 165-133.000.

kuda, Shin: *See—*

Nozoe, Toshiro; Yamashita, Akira; Hirashima, Masayoshi; and Fukuda, Shin, 4,667,235, Cl. 358-147.000.

uda, Shinichiro, to Shaken Co., Ltd. Character image data compresion system. 4,703,516, 10-27-87, Cl. 382-56.000.

uda, Tadaji: *See—*

Komatsu, Toshiyuki; Hirai, Yutaka; Nakagawa, Katsumi; and Fukuda, Tadaji, 4,664,998, Cl. 430-64.000.

Matsumoto, Yasuyuki; Murai, Keiichi; Fukuda, Tadaji; and Ogawa, Kyosuke, 4,702,981, Cl. 430-69.000.

Nakagawa, Katsumi; Komatsu, Toshiyuki; Hirai, Yutaka; Misumi, Teruo; and Fukuda, Tadaji, 4,670,369, Cl. 430-128.000.

da, Takashi: *See—*

Hagita, Hyoji; Fukuda, Takashi; Maeda, Shigeru; Imamura, Hideo; Ogata, Kazutosi; and Fukuoka, Masahiro, 4,688,411, Cl. 72-42.000.

da, Takeshi: *See—*

toh, Kunio; Fukuda, Takeshi; and Yoshioka, Hiroshi, 4,714,733, Cl. 524-493.000.

da, Tamotsu; Shigeta, Shiro; Okuya, Hiroaki; Kuroiwa, Yasuyuki; Sudo, Tadashi, to Mitsui Toatsu Chemicals, Inc. Common anti-(PSC-A) to *Pseudomonas aeruginosa* which acts as an agent for pretecting *Pseudomonas aeruginosa* infection. 4,702,910, 10-27-87, Cl. 424-92.000.

Fukuda, Tamotsu: *See—*

Tanaka, Kenzi; Gomi, Koichi; Fukuda, Tamotsu; and Hayashi, Masataka, 4,671,240, Cl. 123-463.000.

Fukuda, Tokuya; Ishizuka, Shigeki; and Yamashita, Noriyuki, to Sony Corporation. Active filter circuit. 4,689,580, 8-25-87, Cl. 330-306.000.

Fukuda, Tokuya, to Sony Corporation. Apparatus for magnetically recording and/or reproducing two-channel audio signals together with a color video signal in successive oblique tracks on a magnetic tape. 4,709,275, 11-24-87, Cl. 358-310.000.

Fukuda, Tomeichiro; Soda, Takashi; Furukawa, Ikuo; Hayashi, Takushi; Kumata, Fujio; and Nagano, Susumu, to Victor Company of Japan, Limited. Apparatus for manufacturing information storage mediums. 4,662,835, 5-5-87, Cl. 425-145.000.

Fukuda, Tomiichi. System for propelling two-wheeled golf carts along a track. 4,671,184, 6-9-87, Cl. 104-118.000.

Fukuda, Tomio: *See—*

Fujioka, Atsushi; Miyadera, Yasuo; and Fukuda, Tomio, 4,707,316, Cl. 264-135.000.

Fukuda, Tomoichi: *See—*

Nasu, Hisanori; Suzuki, Satoru; Yoshida, Hiroaki; Fukuda, Tomoichi; and Soeda, Eiichi, 4,706,192, Cl. 364-413.000.

Fukuda, Toshiyuki: *See—*

Maehara, Kazuo; and Fukuda, Toshiyuki, 4,644,758, Cl. 62-234.000.

Fukuda, Tsuguo; and Terashima, Kazutaka, to Agency of Industrial Science & Technology; and Ministry of International Trade and Industry. Method for producing GaAs single crystal. 4,637,854, 1-20-87, Cl. 156-607.000.

Fukuda, Tsuyoshi; Suzuki, Masayuki; and Kiuchi, Masayoshi, to Canon Kabushiki Kaisha. Mirror device for a camera. 4,673,278, 6-16-87, Cl. 354-479.000.

Fukuda, Yasuhiro; and Suganuma, Ikuo, to Oki Electric Industry Co., Ltd. Method and apparatus for examining electrostatic discharge damage to semiconductor devices. 4,636,724, 1-13-87, Cl. 324-158.00R.

Fukuda, Yasuko: *See—*

Namiki, Mitsuo; Osawa, Toshihiko; Fukuda, Yasuko; and Ozaki, Tatsuhiko, 4,649,206, Cl. 549-435.000.

Namiki, Mitsuo; Osawa, Toshihiko; Fukuda, Yasuko; and Ozaki, Tatsuhiko, 4,708,820, Cl. 252-398.000.

Fukuda, Yasushi; Oka, Takafumi; and Tanaka, Kazuo, to Hitachi, Ltd. Data recording and reproducing system with error correction capability using ECC and CRC codes. 4,698,810, 10-6-87, Cl. 371-38.000.

Fukuda, Yasutaka; Shimizu, Shigeo; and Nakano, Atsushi, to Victor Company of Japan, Limited. Magnetic recording medium and method of producing the same. 4,698,251, 10-6-87, Cl. 428-64.000.

Fukuda, Yoshinobu: *See—*

Yoneda, Kazuhiko; Kitano, Seiichi; and Fukuda, Yoshinobu, 4,643,289, Cl. 192-106.200.

Fukuda, Yujiro: *See—*

Utsumi, Shigeo; Tomitaka, Kichinojyo; and Fukuda, Yujiro, 4,677,188, Cl. 528-272.000.

Fukuda, Yukihiro: *See—*

Aoki, Takashi; Sato, Yoichi; and Fukuda, Yukihiro, 4,686,872, Cl. 74-868.000.

Aoki, Takashi; Fukuda, Yukihiro; and Nishikawa, Masao, 4,696,383, Cl. 192-70.120.

Nishikawa, Masao; Aoki, Takashi; Sato, Yoichi; and Fukuda, Yukihiro, 4,688,530, Cl. 123-198.00R.

Nishikawa, Masao; Miyake, Junichi; Sakurai, Yoshimi; and Fukuda, Yukihiro, 4,700,819, Cl. 192-3.620.

Fukuda, Yutaka; Minagawa, Koji; Nabeshima, Hiroichi; Muneki, Koihiro; Asano, Yoshikatsu; Aoki, Kazuo; and Ishizaka, Yutaka, to Honda Giken Kogyo Kabushiki Kaisha. Light distribution of headlight beam. 4,679,935, 7-14-87, Cl. 356-121.000.

Fukuda, Yutaro: *See—*

Sugimori, Teruhiko; Tajiri, Noriyuki; and Fukuda, Yutaro, 4,690,974, Cl. 525-64.000.

Sugimori, Teruhiko; Tajiri, Noriyuki; and Fukuda, Yutaro, 4,690,975, Cl. 525-64.000.

Fukudome, Yoshio: *See—*

Sasaki, Naoya; Kawauchi, Masataka; Fukudome, Yoshio; Takeda, Fumio; Suzuki, Yoichi; Mirubayashi, Toshio; and Utsumi, Itsunori, 4,653,742, Cl. 271-114.000.

Fukuhara, Akio: *See—*

Ueda, Toshihiro; Imanishi, Masamichi; Iyama, Kazuo; Fukuhara, Akio; and Iwase, Ken, 4,634,003, Cl. 206-221.000.

Fukuhara, Hiroshige, to Nissan Motor Company, Ltd. Automatic Loran-C signal detecting apparatus. 4,670,759, 6-2-87, Cl. 342-389.000.

Fukuhara, Hiroshige; Takai, Hideo; Uekusa, Yasuyuki; and Kishi, Hisao, to Nissan Motor Co., Ltd. Position measuring system. 4,672,382, 6-9-87, Cl. 342-357.000.

Fukuhara, Kazuyoshi: *See—*

Fujita, Shigeyoshi; Saski, Tomoyuki; Fukuhara, Kazuyoshi; and Nishikawa, Hirohsi, 4,671,183, Cl. 104-93.000.

Fukuhara, Kazuyuki; and Shuzui, Yoshikiyo, to Toyota Jidosha Kabushiki Kaisha. Intake system for multicylinder internal combustion engine. 4,653,440, 3-31-87, Cl. 123-52.0MB.

Fukuhara, Kunihiro, to Nifco Inc. Screw receiver. 4,671,717, 6-9-87, Cl. 411-182.000.

Fukuhara, Kunihiro, to Nifco, Inc. Device for securing molding of automobile door. 4,696,128, 9-29-87, Cl. 49-492.000.

Fukuhara, Masanori; and Kawasaki, Kikuo, to Fuji Electric Company Ltd. Serial transmission line monitoring device. 4,672,611, 6-9-87, Cl. 371-59.000.

Fukuhara, Masao, to Fukuhara Needle Company, Ltd. Method of manufacturing stamped knitting needles. 4,681,150, 7-21-87, Cl. 163-5.000.

Fukuhara, Mikio; and Mitsuda, Tetsuya, to Toshiba Tungaloy Co., Ltd. Sintered alloy for decoration. 4,702,769, 10-27-87, Cl. 75-233.000.

Fukuhara Needle Company, Ltd.: *See—*

Fukuhara, Masao, 4,681,150, Cl. 163-5.000.

Fukuhara, Satoru; and Todokoro, Hideo, to Hitachi, Ltd. Scanning electron microscope. 4,687,931, 8-18-87, Cl. 250-310.000.

Fukuhara, Satoru: *See—*

Ichihashi, Mikio; Okumura, Masahide; and Fukuhara, Satoru, 4,670,652, Cl. 250-310.000.

Fukuhara, Toshihiko, to Kabushiki Kaisha Komatsu Seisakusho. Apparatus mounted on vehicles for detecting road surface conditions. 4,653,316, 3-31-87, Cl. 73-146.000.

Fukuhara, Tsuyoshi: *See—*

Yoneda, Norihiko; Fukuhara, Tsuyoshi; and Nozawa, Seiichi, 4,707,536, Cl. 528-198.000.

Fukuhara, Yoshifumi: *See—*

Nitta, Michio; Suzuki, Hiroyuki; and Fukuhara, Yoshifumi, 4,662,826, Cl. 417-206.000.

Fukui, Hiroshi: *See—*

Goshima, Takeshi; Nozaki, Mineo; and Fukui, Hiroshi, 4,675,692, Cl. 346-1.100.

Kimura, Shin; Fukui, Hiroshi; Amano, Hisao; Yatsuo, Tsutomu; Oikawa, Saburo; and Negano, Takahiro, 4,646,122, Cl. 357-38.000.

Nagira, Keiji; and Fukui, Hiroshi, 4,675,700, Cl. 346-76.0PH.

Tokunaga, Norikazu; Fukui, Hiroshi; Watanabe, Kouzou; Amano, Hisao; and Sato, Masayoshi, 4,692,643, Cl. 307-584.000.

Yatsuo, Tsutomu; Nagano, Takahiro; Oikawa, Saburo; Sato, Yukimasa; Kimura, Shin; and Fukui, Hiroshi, 4,651,189, Cl. 357-38.000.

Fukui, Hiroyuki: *See—*

Aoshima, Atsushi; Tonomura, Shoichiro; Fukui, Hiroyuki; and Imai, Hisaya, 4,658,065, Cl. 564-487.000.

Fukui, Hisatoshi: *See—*

Maeda, Hirofumi; Nakamura, Kyoichi; and Fukui, Hisatoshi, 4,687,641, Cl. 422-133.000.

Fukui, Katsuhiko: *See—*

Miki, Kazuo; Fukui, Katsuhiko; Hayashi, Yasutaka; Ishiguro, Michio; Sumi, Kazumasa; and Takei, Kazukata, 4,669,745, Cl. 280-91.000.

Miki, Kazuo; Hayashi, Yasutaka; Fukui, Katsuhiko; and Sumi, Kazumasa, 4,700,960, Cl. 280-91.000.

Fukui, Kiyotake: *See—*

Horiike, Yoshio; Nagaishi, Yasuo; and Fukui, Kiyotake, 4,660,215, Cl. 375-48.000.

Fukui, Kunisuke: *See—*

Kashiwa, Norio; and Fukui, Kunisuke, 4,659,792, Cl. 526-73.000.

Kohyama, Masaki; Muranaka, Takeshi; Fukui, Kunisuke; and Kashiwa, Norio, 4,642,269, Cl. 428-516.000.

Fukui, Masahiro: *See—*

Inoue, Hiromichi; Fukui, Masahiro; Goto, Yasuyuki; and Tokita, Susumu, 4,704,228, Cl. 252-299.630.

Ogawa, Tetsuya; Kitano, Kisei; Goto, Yasuyuki; Fukui, Masahiro; and Sugimori, Shigeru, 4,640,795, Cl. 252-299.500.

Fukui, Masami: *See—*

Chazono, Hirokazu; Kishi, Hiroshi; Murai, Shunji; Fukui, Masami; and Wada, Takeshi, 4,700,266, Cl. 361-321.000.

Chazono, Hirokazu; Kishi, Hiroshi; Murai, Shunji; Fukui, Masami; and Wada, Takeshi, 4,700,267, Cl. 361-321.000.

Chazono, Hirokazu; Kishi, Hiroshi; Murai, Shunji; Fukui, Masami; and Wada, Takeshi, 4,700,268, Cl. 361-321.000.

Kishi, Hiroshi; Oshio, Minoru; Murai, Shunji; Wada, Takeshi; and Fukui, Masami, 4,700,264, Cl. 361-321.000.

Kishi, Hiroshi; Oshio, Minoru; Murai, Shunji; Wada, Takeshi; and Fukui, Masami, 4,700,265, Cl. 361-321.000.

Kishi, Hiroshi; Oshio, Minoru; Murai, Shunji; Wada, Takeshi; and Fukui, Masami, 4,700,269, Cl. 361-321.000.

Kishi, Hiroshi; Oshio, Minoru; Murai, Shunji; Wada, Takeshi; and Fukui, Masami, 4,709,299, Cl. 361-321.000.

Fukui, Masaru: *See—*

Ishizumi, Kikuo; Ohashi, Naohito; Tanno, Norihiko; Sato, Hiromi; Fukui, Masaru; and Morisada, Shinya, 4,673,668, Cl. 514-34.000.

Fukui, Minoru; and Kataoka, Naoki, to Asahi Kasei Kogyo Kabushiki Kaisha. Deformation sensitive electroconductive knitted or woven fabric and deformation sensitive electroconductive device comprising the same. 4,715,235, 12-29-87, Cl. 73-862.680.

Fukui, Noboru: *See—*

Fujikawa, Tetsuzo; Hirata, Makizo; Tamba, Shinichi; and Fukui, Noboru, 4,697,555, Cl. 123-90.230.

Takada, Toshiyuki; Fukui, Noboru; and Shimizu, Akihito, 4,707,986, Cl. 60-310.000.

Tamba, Shinichi; Miyake, Hitomi; and Fukui, Noboru, 4,662,322, Cl. 123-41.860.

Tamba, Shinichi; Miyake, Hitomi; Fukui, Noboru; and Miguchi, Akio, 4,681,067, Cl. 123-41.100.

Tamba, Shinichi; Fukui, Noboru; and Miguchi, Akio, 4,703,723, Cl. 123-182.000.

Fukui, Ryoichi; and Minamikawa, Susumu, to Omron Tateisi Electronics Co. Electronic thermometer. 4,692,034, 9-8-87, Cl. 374-208.000.

Fukui, Ryosuke: *See—*

Ikari, Yoshikatsu; Yokoyama, Shoichiro; Ohama, Chiaki; and Fukui, Ryosuke, 4,670,288, Cl. 427-4.000.

Fukui, Shinta: *See—*

Suzuki, Mamoru; and Fukui, Shinta, 4,641,248, Cl. 364-492.000.

Fukui, Shosin; Shinjo, Masayoshi; Aoyama, Hirokazu; Okazaki, Yasuko; Enjo, Naonori; and Hayashi, Kazunori, to Daikin Industrie Ltd. Perfluoroalkylvinyl polymer and production and use thereof 4,673,712, 6-16-87, Cl. 526-253.000.

Fukui Sinta Kabushiki Kaisha: *See—*

Hattori, Torao; Nishimura, Minoru; and Goto, Masaki, 4,642,07 Cl. 474-201.000.

Fukui, Takashi, to Fuji Photo Film Co., Ltd. Method of detecting blurred photographic originals. 4,653,926, 3-31-87, Cl. 356-444.00

Fukui, Takashi: *See—*

Oshikoshi, Yuji; and Fukui, Takashi, 4,656,526, Cl. 358-294.00

Fukui, Takumi: *See—*

Takimoto, Hiroshi; and Fukui, Takumi, 4,636,922, Cl. 362-72.00

Fukui, Tetsu, to Kubota, Ltd. Four-wheel driven vehicles. 4,669,55 6-2-87, Cl. 180-6.240.

Fukui, Tetsu: *See—*

Hasegawa, Shigekazu; and Fukui, Tetsu, 4,637,26 Cl. 74-335.00

Fukui, Tomonori; and Ueno, Yukiyasu, to Nippondenso Co., Lt Optical detector assembly. 4,662,758, 5-5-87, Cl. 356-439.000.

Fukui, Toyoaki, to Mitsubishi Jidosha Kogyo Kabushiki Kaisha Method and system for controlling internal-combustion engine 4,633,838, 1-6-87, Cl. 123-488.000.

Fukui, Tsugushi: *See—*

Orimo, Taiji; Fukui, Tsugushi; and Fukumizu, Shinichi, 4,681,45 Cl. 366-84.000.

Fukui, Yoshio; Yamato, Masatoshi; Umeda, Naoki; and Kawasak Masahiro, to Towa Yakuhin Kabusiniki Kaisha. Anti-tumor deriva tives of butanediol and process of preparation. 4,647,412, 3-3-87, C 260-410.600.

Fukui, Yoshitaka: *See—*

Innami, Satoshi; and Fukui, Yoshitaka, 4,659,388, Cl. 106-163.10

Fukui, Yukio: *See—*

Ishigaki, Masaji; Ohishi, Tetsu; Tokusyuku, Nobuhiro; Koder Yoshie; and Fukui, Yukio, 4,645,712, Cl. 428-433.000.

Miura, Yoshio; and Fukui, Yukio, 4,689,778, Cl. 369-32.000.

Fukui, Yutaka: *See—*

Mori, Takanobu; Fukui, Yutaka; Kashimura, Tetsuo; and Yas Yoshimi, 4,642,495, Cl. 310-52.000.

Fukuizumi, Hideaki: *See—*

Yoshinari, Osamu; Kawakatsu, Yoshifumi; Takahashi, Hayashi; and Fukuizumi, Hideaki, 4,659,623, Cl. 428-395.000.

Fukuizumi, Toshiharu: *See—*

Morita, Akiyoshi; Nonoyama, Hideo; and Fukuizumi, Toshiharu, 4,652,724, Cl. 219-121.0LM.

Morita, Akiyoshi; Nonoyama, Hideo; Fukuizumi, Toshiharu; and Uruno, Kiyokazu, 4,661,676, Cl. 219-121.0LM.

Nonoyama, Hideo; Fukuizumi, Toshiharu; and Morita, Akiyosh 4,681,642, Cl. 148-321.000.

Takagi, Soya; and Fukuizumi, Toshiharu, 4,658,111, C 219-125.100.

Fukukawa, Mitsuo: *See—*

Mio, Kohei; Yamagishi, Yukio; Ishikawa, Hiroshi; Fukukawa Mitsuo; and Takahashi, Shigeyuki, 4,699,543, Cl. 404-109.000.

Fukukita, Hiroshi; Tachita, Ryobun; Fukaya, Kuniaki; and Yan Tsutomu, to Matsushita Electric Industrial Co., Ltd. Digital signal processing apparatus for a blood flowmeter using ultrasound Doppler effect. 4,641,260, 2-3-87, Cl. 364-737.000.

Fukuma, Nobuo; Hasegawa, Hisayasu; Murayama, Kimimasa; Hayashi Kunio; and Tokudome, Yoshihiro, to Toyota Jidosha Kabushiki Kaisha. Method of making valve sleeves. 4,689,864, 9-1-87, Cl. 2 157.10R.

Fukuma, Toshiaki, to Shimadzu Corporation. Spectrophotometer 4,710,024, 12-1-87, Cl. 356-328.000.

Fukuma, Tositaka; and Satoh, Masaharu, to Sharp Kabushiki Kaisha Display drive circuit. 4,685,769, 8-11-87, Cl. 350-332.000.

Fukumi, Shigenobu: *See—*

Kamiya, Hiroshi; Iguchi, Takeshi; and Fukumi, Shigenobu 4,705,206, Cl. 228-183.000.

Fukumitsu, Mikio: *See—*

Watanabe, Atsuo; and Fukumitsu, Mikio, 4,704,776, Cl. 29-132.00

Fukumitsu, Shohji: *See—*

Tabata, Nobuchika; and Fukumitsu, Shohji, 4,710,317, C 252-609.000.

Fukumitsu, Yasunori; and Kohno, Mitsuo, to Asahi Kasei Kogyo Kabushiki Kaisha. Dust cover superior in transparency for photomask reticle use and process for producing the same. 4,657,805, 4-14-87, C 428-215.000.

Fukumizu, Shinichi: *See—*

Inoue, Kimio; Fukumizu, Shinichi; and Fusamoto, Akira, 4,652,13 Cl. 366-89.000.

Orimo, Taiji; Fukui, Tsugushi; and Fukumizu, Shinichi, 4,681,45 Cl. 366-84.000.

Fukumizu, Shinnichi; Inoue, Kimio; and Kuriyama, Akimasa, to Kabushiki Kaisha Kobe Seiko Sho. Cavity transfer mixing extruder 4,695,165, 9-22-87, Cl. 366-90.000.

Fukumori, Katuaki: *See—*

Shimokawa, Wataru; and Fukumori, Katuaki, 4,708,821, C 512-12.000.

Fukumori, Norio: *See—*

Onishi, Hikaru; Sato, Ichiro; Ryugo, Mitsunobu; and Fukumori Norio, 4,649,610, Cl. 29-26.00A.

Fukumoto, Akira: *See—*

Kawabuchi, Masami; Matsuo, Koji; Muramatsu, Fumio; Fukumoto, Akira; and Saito, Koetsu, 4,699,150, Cl. 128-660.000.

Fukumoto, Fumio: *See—*

Ishii, Kenjiro; Satoh, Yutaka; Fukumoto, Fumio; Otsuki, Hajime; Kokura, Yasuhide; and Saito, Shuichi, 4,695,155, Cl. 355-45.000.

Otsuki, Hajime; Ishii, Kenjiro; Satoh, Yutaka; and Fukumoto, Fumio, 4,708,464, Cl. 355-45.000.

Fukumoto, Hiroshi; Tanaka, Katsuhiko; and Imai, Eiichi, to Canon Kabushiki Kaisha. Toner, charge-imparting material and composition containing organotin alkoxide. 4,657,838, 4-14-87, Cl. 430-110.000.

Fukumoto, Hiroshi; Tanaka, Katsuhiko; and Kawagishi, Yoji, to Canon Kabushiki Kaisha, and Orient Chemical Industries, Ltd. Toner, charge-imparting material and composition containing metal complex. 4,673,631, 6-16-87, Cl. 430-110.000.

Fukumoto, Hiroshi; Ohnishi, Toshikazu; and Arahara, Kohzoh, to Canon Kabushiki Kaisha. Process for producing toner for developing electrostatic images. 4,702,988, 10-27-87, Cl. 430-137.000.

Fukumoto, Hiroshi: *See—*

Ikeda, Takeshi; Imai, Eiichi; Fukumoto, Hiroshi; Tanaka, Katsuhiko; Suematsu, Koshi; Urawa, Motoo; and Takenouchi, Masanori, 4,663,263, Cl. 430-110.000.

Tanaka, Katsuhiko; and Fukumoto, Hiroshi, 4,710,443, Cl. 430-106.600.

Fukumoto, Kengi: *See—*

Seno, Makito; Misawa, Yoshihiko; Maeda, Yoshinobu; and Fukumoto, Kengi, 4,706,379, Cl. 29-740.000.

Fukumoto, Masafumi, to Nisshin Chemical Industry Co., Ltd. Heat exchanger having spirally wound tubes. 4,671,343, 6-9-87, Cl. 165-162.000.

Fukumoto, Masami: *See—*

Yamaura, Izumi; Fukumoto, Masami; and Torigoe, Masao, 4,679,990, Cl. 417-312.000.

Fukumoto, Masao. Torque limiting overload coupling. 4,668,206, 5-26-87, Cl. 464-36.000.

Fukumoto, Muneki: *See—*

Yasui, Nobushige; Fukumoto, Muneki; and Saito, Shinzo, 4,667,873, Cl. 229-137.000.

Fukumoto, Ryoichi; and Hirose, Kimiharu, to Aisin Seiki Kabushiki Kaisha. Automotive window regulator mechanism using wire and method of mounting same to body. 4,665,651, 5-19-87, Cl. 49-352.000.

Fukumoto, Ryoichi: *See—*

Iida, Norikazu; Fukumoto, Ryoichi; and Mori, Keiji, 4,699,024, Cl. 74-805.000.

Shiraishi, Daichi; Iwasaki, Eiji; and Fukumoto, Ryoichi, 4,644,695, Cl. 49-352.000.

Fukumoto, Shigeaki, to Sharp Kabushiki Kaisha. Exhaust system for a cooking apparatus. 4,682,580, 7-28-87, Cl. 126-299.00D.

Fukumoto, Shintaro: *See—*

Kuno, Kazuo; Ichihara, Tadashi; Fukumoto, Shintaro; and Nagata, Daisaburo, 4,664,867, Cl. 376-142.000.

Kuno, Kazuo; Ichihara, Tadashi; Fukumoto, Shintaro; and Nagata, Daisaburo, 4,664,868, Cl. 376-142.000.

Fukumoto, Takaaki; and Ohmori, Toshiaki, to Mitsubishi Denki Kabushiki Kaisha. Device for measuring the absolute value of the density of salts in atmosphere. 4,696,184, 9-29-87, Cl. 73-32.00R.

Fukumoto, Tetsuhiro: *See—*

Kusube, Haruo; Ochiai, Kiyoshi; Fukumoto, Tetsuhiro; and Takeuchi, Akihiro, 4,703,788, Cl. 152-209.00R.

Fukumoto, Toshio, to Fujitsu Limited. Programmable semiconductor memory device having separate read word line drivers and write-only word line drivers. 4,638,466, 1-20-87, Cl. 365-230.000.

Fukumoto, Tsunenori, to Honda Giken Kogyo Kabushiki Kaisha. Evaporation fuel processing apparatus for two-wheel vehicle. 4,646,701, 3-3-87, Cl. 123-519.000.

Fukumoto, Wasao: *See—*

Uotani, Masaki; Yamanaka, Tsuneyasu; and Fukumoto, Wasao, 4,664,876, Cl. 376-290.000.

Fukumoto, Yasuhisa; and Moriyama, Noboru, to Kao Corporation. Process for producing polymaleate. 4,668,735, 5-26-87, Cl. 524-804.000.

Fukumoto, Yasuhisha; and Moriyama, Moboru, to Kao Corporation. Production of polymaleic acid. 4,709,091, 11-24-87, Cl. 562-595.000.

Fukumura, Kagenori: *See—*

Fujiura, Kaiya; Hayakawa, Yoichi; Harada, Yoshiharu; and Fukumura, Kagenori, 4,699,249, Cl. 184-11.100.

Harada, Yoshiharu; Taga, Yutaka; Fukumura, Kagenori; Hayakawa, Yoichi; and Kawai, Masao, 4,693,143, Cl. 74-866.000.

Harada, Yoshiharu; Taga, Yutaka; Fukumura, Kagenori; Hayakawa, Yoichi; and Kawai, Masao, 4,708,032, Cl. 74-866.000.

Harada, Yoshiharu; Taga, Yutaka; Fukumura, Kagenori; Hayakawa, Yoichi; and Kawai, Masao, 4,713,988, Cl. 74-868.000.

Hayakawa, Yoichi; Kawai, Masao; Yoshizawa, Kenichi; Harada, Yoshiharu; and Fukumura, Kagenori, 4,697,479, Cl. 74-867.000.

Hayakawa, Yoichi; Kawai, Masao; Nishikawa, Seiichi; and Fukumura, Kagenori, 4,713,989, Cl. 74-869.000.

Yasue, Hideki; and Fukumura, Kagenori, 4,700,591, Cl. 74-868.000.

Yasue, Hideki; and Fukumura, Kagenori, 4,709,597, Cl. 74-868.000.

Fukumura, Keiichi: *See—*

Ohta, Hiromi; Ogawa, Shinji; Kajikawa, Yosiharu; Fukumura, Keiichi; Tsuchiya, Kiyomitsu; Kittaka, Kiyoshi; and Narita, Katsushi, 4,707,999, Cl. 62-474.000.

Fukumura, Masataka: *See—*

Yamada, Hirotada; Masai, Naruhito; Ueda, Sinji; Okuda, Takao; Fukasawa, Masatomo; Kato, Masuhiro; and Fukumura, Masataka, 4,705,784, Cl. 514-202.000.

Fukumura, Yukio: *See—*

Matsuura, Takashi; and Fukumura, Yukio, 4,667,169, Cl. 331-14.000.

Fukunaga, Hosaku, to Makise, Masanobu. Thawing agent. 4,654,157, 3-31-87, Cl. 252-70.000.

Fukunaga, Masami; and Yamaguchi, Tomoyoshi, to Dai-Ichi Seiko Kabushiki Kaisha. Integrated circuit tester socket. 4,691,975, 9-8-87, Cl. 439-266.000.

Fukunaga, Masao; and Nonoguchi, Hiroshi, to Matsushita Electric Industrial Co., Ltd. Electric food processor. 4,691,870, 9-8-87, Cl. 241-36.000.

Fukunaga, Masao: *See—*

Sase, Akira; Nagata, Takeo; Fukunaga, Masao; Sakurai, Yutaka; and Satomi, Yoshikatsu, deceased, 4,680,627, Cl. 358-101.000.

Fukunaga, Mitsuo, to Murata Kikai Kabushiki Kaisha. Lubricant applicator for two-for-one twister. 4,641,493, 2-10-87, Cl. 57-296.000.

Fukunaga, Mitsuo; and Inoue, Yoshihisa, to Murata Kikai Kabushiki Kaisha. Tension device for use in two-for-one twister. 4,642,980, 2-17-87, Cl. 57-58.860.

Fukunaga, Takahiro; and Yoshiura, Shoichiro, to Sharp Kabushiki Kaisha. Imaging agent supply and recovery tank of electronic imaging device. 4,660,960, 4-28-87, Cl. 355-3.0DD

Fukunaga, Takahiro: *See—*

Taniguchi, Akihiko; Fukunaga, Takahiro; and Shimizu, Eiichi, 4,682,884, Cl. 355-51.000.

Fukunaga, Takeshi: *See—*

Yoshida, Daisuke; Tanno, Tomiya; and Fukunaga, Takeshi, 4,672,811, Cl. 60-449.000.

Fukunaga, Yasushi; Kuzunuki, Soshiro; Shojima, Hiroshi; Yokoyama, Takanori; Koga, Kazuyoshi; Hirasawa, Kotaro; and Kawada, Shinichi, to Hitachi, Ltd. Apparatus for recognizing and displaying handwritten characters and figures. 4,641,354, 2-3-87, Cl. 382-13.000.

Fukunaga, Yasushi; and Fujita, Ryo, to Hitachi, Ltd. Input-output coordinate transforming method and apparatus for input-integrated display. 4,646,073, 2-24-87, Cl. 340-709.000.

Fukunaga, Yasushi: *See—*

Kuzunuki, Soshiro; Shojima, Hiroshi; Yokoyama, Takanori; Fukunaga, Yasushi; and Hirasawa, Kotaro, 4,680,804, Cl. 382-13.000.

Fukunaga, Yukio; Shibahata, Yasuji; Nakamura, Kenji; Tsubota, Yasumasa; Irie, Namio; and Kuroki, Junsuke, to Nissan Motor Co., Ltd. Method of controlling vehicle. 4,705,130, 11-10-87, Cl. 180-140.000.

Fukunaga, Yukio: *See—*

Nakamura, Kenji; Shibahata, Yasuji; Fukunaga, Yukio; Tsubota, Yasumasa; Irie, Namio; and Kuroki, Junsuke, 4,669,567, Cl. 180-140.000.

Shibahata, Yasuji; Fukunaga, Yukio; Nakamura, Kenji; Tsubota, Yasumasa; Irie, Namio; and Kuroki, Junsuke, 4,666,013, Cl. 180-141.000.

Shibahata, Yasuji; Fukunaga, Yukio; Nakamura, Kenji; Tsubota, Yasumasa; Irie, Namio; and Kuroki, Junsuke, 4,705,131, Cl. 180-140.000.

Fukuo, Koichi; and Sasaki, Shinji, to Honda Giken Kogyo Kabushiki Kaisha. Breather device for internal combustion engine. 4,656,991, 4-14-87, Cl. 123-572.000.

Fukuoka, Masahiro: *See—*

Hagita, Hyoji; Fukuda, Takashi; Maeda, Shigeru; Imamura, Hideo; Ogata, Kazutosi; and Fukuoka, Masahiro, 4,688,411, Cl. 72-42.000.

Fukuoka, Shinsuke; and Matsuda, Hideki, to Asahi Kasei Kogyo Kabushiki Kaisha. Aromatic polyether ketones. 4,703,102, 10-27-87, Cl. 528-125.000.

Fukuoka, Takashi: *See—*

Kamata, Yoshikiyo; and Fukuoka, Takashi, 4,664,154, Cl. 137-857.000.

Fukuoka, Tatsuhiko: *See—*

Futamura, Kenichiro; Ohtsu, Keiichiro; Fukuoka, Tatsuhiko; Takenaka, Kenji; Itakura, Yoshio; and Koga, Hiroshi, 4,641,570, Cl. 92-71.000.

Suzuki, Osamu; Asada, Eizi; and Fukuoka, Tatsuhiko, 4,698,179, Cl. 252-511.000.

Fukuoka, Toshio: *See—*

Teranishi, Akihiko; and Fukuoka, Tosino, 4,665,921, Cl. 128-422.000.

Fukuoka, Yohei: *See—*

Mitsui, Osamu; and Fukuoka, Yohei, 4,678,861, Cl. 585-266.000.

Tojo, Masahiro; and Fukuoka, Yohei, 4,661,639, Cl. 568-835.000.

Fukuoka, Yoshitaka, to Kabushiki Kaisha Toshiba. Packaged electronic device. 4,639,830, 1-27-87, Cl. 361-411.000.

Fukura, Kenichi: *See—*

Yukimoto, Kazuyoshi; Fukura, Kenichi; and Yamauchi, Nobuhiro, 4,695,036, Cl. 254-126.000.

Fukuroi, Takeo; and Inazawa, Keichi, to Nippon Notion Kogyo Co., Ltd. Hook for a hook-and-eye fastener. 4,639,983, 2-3-87, Cl. 24-689.000.

Fukuroi, Takeo; and Tanaka, Akira, to Yoshida Kogyo K.K. Capped eyelet for attaching snap fastener. 4,686,749, 8-18-87, Cl. 24-691.000.

Fukuroi, Takeshi: *See—*

Ishikawa, Yasushi; and Fukuroi, Takeshi, 4,642,044, Cl. 425-593.000.

Fukushi, Yuzo; and Hagiwara, Yukio, to NEC Corporation. Tone responsible disabler circuit for an echo canceller. 4,658,420, 4-14-87, Cl. 379-407.000.

Fukushige, Setsuo: *See—*

Koga, Mitsuyuki; Hirai, Kenichiro; Sugimae, Toshio; and Fukushige, Setsuo, 4,713,405, Cl. 523-212.000.

Fukushima, Akira; and Kudo, Yoshinobu, to Minolta Camera Kabushiki Kaisha. Photographic lens system. 4,671,626, 6-9-87, Cl. 350-466.000.

Fukushima, Aritoshi: *See—*

Umemura, Masashi; Konishi, Masanori; Fukushima, Aritoshi; Hisano, Junichi; and Okamoto, Toshiaki, 4,692,256, Cl. 252-32.70E.

Fukushima, Eiji; Tanaka, Minoru; Sanada, Kazuo; and Chigira, Sadao, to Kabushiki Kaisha Toshiba; and Fujikura Ltd. Very-low-temperature fiberscope. 4,707,075, 11-17-87, Cl. 350-96.260.

Fukushima, Hiroshi: *See—*

Nakamoto, Hideo; and Fukushima, Hiroshi, 4,668,751, Cl. 526-314.000.

Nakamoto, Hideo; Aosai, Fumito; Fukushima, Hiroshi; and Suda, Eriko, 4,680,368, Cl. 528-49.000.

Watanabe, Yoshiaki; Yokoo, Chihiro; Goi, Masami; Onodera, Akira; Murata, Mitsuo; Fukushima, Hiroshi; and Sota, Kaoru, 4,699,981, Cl. 540-227.000.

Fukushima, Hirotaka: *See—*

Takeuchi, Hiroshi; Majima, Hidekazu; and Fukushima, Hirotaka, 4,646,892, Cl. 192-70.270.

Fukushima, Isao: *See—*

Ito, Takayasu; Nishijima, Hideo; Fukushima, Isao; Fujimori, Yoshio; and Kobori, Yasunori, 4,651,067, Cl. 318-254.000.

Kuwahara, Kazuyoshi; Fukushima, Isao; Miura, Kuniaki; and Kano, Kenji, 4,713,700, Cl. 358-315.000.

Miura, Kuniaki; Yunde, Yasufumi; Kotani, Kazunori; Fukushima, Isao; and Kano, Kenji, 4,647,960, Cl. 358-37.000.

Miura, Kuniaki; Okada, Yoshinori; Fukushima, Isao; and Otsuka, Susumu, 4,691,246, Cl. 358-310.000.

Nishijima, Hideo; Ito, Takayasu; and Fukushima, Isao, 4,682,096, Cl. 318-808.000.

Okada, Yoshinori; Fukushima, Isao; Miura, Kuniaki; and Kano, Kenji, 4,667,120, Cl. 307-521.000.

Okada, Yoshinori; Watanabe, Hisaji; Fukushima, Isao; and Yoshida, Hideo, 4,672,468, Cl. 358-310.000.

Shiomi, Makoto; Miura, Kuniaki; Fukushima, Isao; Moro, Eiji; and Kanenari, Shigeaki, 4,667,168, Cl. 331-1.00R.

Fukushima, Kazumasa: *See—*

Ando, Hirokazu; Fukushima, Kazumasa; Ohmori, Yasuo; and Koyama, Tatsuya, 4,692,043, Cl. 400-124.000.

Ninomiya, Masao; Takashima, Susumu; Fukushima, Kazumasa; Yuyama, Masami; and Kurosawa, Kazuyuki, 4,712,243, Cl. 381-43.000.

Fukushima, Kazunobu: *See—*

Arai, Hiroshi; and Fukushima, Kazunobu, 4,653,799, Cl. 296-146.000.

Fukushima, Kenichi: *See—*

Inoue, Hiroshige; Fukushima, Kenichi; and Nishiguchi, Ikuzo, 4,634,768, Cl. 544-151.000.

Fukushima, Kiyoto; Takamatsu, Shigeru; and Kitaura, Eiji, to TDK Corporation. Magnetic recording medium. 4,659,626, 4-21-87, Cl. 428-425.900.

Fukushima, Koji; Seto, Yoshiko; Kawada, Kazuhiro; Toi, Koji; and Kumashiro, Izumi, to Ajinomoto Co., Inc. Phenylalanine derivatives and uses thereof. 4,714,713, 12-22-87, Cl. 514-563.000.

Fukushima, Koji: *See—*

Mino, Kaoru; Fukushima, Koji; and Kasai, Takashi, 4,715,609, Cl. 277-207.00R.

Toyoshima, Shigeshi; Seto, Yoshiko; Fukushima, Koji; and Kumashiro, Izumi, 4,650,785, Cl. 514-3.000.

Toyoshima, Shigeshi; Seto, Yoshiko; Fukushima, Koji; and Kumashiro, Izumi, 4,670,584, Cl. 562-449.000.

Fukushima, Masakazu: *See—*

Maruyama, Masanori; Moriya, Masamichi; Kato, Shinichi; Fukushima, Masakazu; Nonaka, Yasuhiko; and Ogusu, Chihaya, 4,682,077, Cl. 315-14.000.

Oku, Kentaro; and Fukushima, Masakazu, 4,663,560, Cl. 313-390.000.

Oku, Kentaro; Fukushima, Masakazu; Suzuki, Hitomi; and Maruyama, Masanori, 4,701,668, Cl. 315-17.000.

Shirai, Shoji; Noda, Fumio; Iidaka, Yoshiaki; Yamauchi, Masaaki; and Fukushima, Masakazu, 4,672,261, Cl. 313-414.000.

Takayama, Shigehiko; Suzuki, Hitomi; Maruyama, Masanori; Fukushima, Masakazu; and Kurashige, Mitsuhiro, 4,713,588, Cl. 315-382.000.

Fukushima, Masami: *See—*

Sogo, Yoshitaka; Fukushima, Masami; and Kuzuya, Tetsuro, 4,683,771, Cl. 74-467.000.

Fukushima, Masao; Hirose, Iwao; and Miyauchi, Yoshio, to Dainippon Screen Mfg. Co., Ltd. Liquid developing apparatus for use in electrophotographic copying machine. 4,664,502, 5-12-87, Cl. 355-10.000.

Fukushima, Masao: *See—*

Hatabe, Yukio; Miyauchi, Yoshio; Fukushima, Masao; Horikawa, Toru; and Bessho, Yoshihiko, 4,668,073, Cl. 355-3.0FU.

Takagi, Tsuneo; Tanabe, Kenjiro; Fukushima, Masao; Kyushima, Hiroki; Takenaka, Kiyoshi; Okada, Akira; and Isogaki, Yoshinor, 4,641,951, Cl. 355-7.000.

Fukushima, Masayuki: *See—*

Nagano, Eiki; Takemoto, Ichiki; Fukushima, Masayuki; Yoshida, Ryo; and Matsumoto, Hiroshi, 4,670,043, Cl. 71-92.000.

Fukushima, Motoo: *See—*

Itoh, Kunio; Imai, Kiyoshi; Yoshida, Takeo; and Fukushima, Motoo, 4,678,827, Cl. 524-188.000.

Fukushima, Naoto, to Nissan Motor Co., Ltd. Vibration-proofing device. 4,650,170, 3-17-87, Cl. 267-140.100.

Fukushima, Naoto: *See—*

Akatsu, Yousuke; Yamaguchi, Hirotsugu; Fukushima, Naoto; Hano, Sunao; Sugino, Masaru; Takehara, Shin; and Matsui, Shinichi, 4,693,491, Cl. 280-688.000.

Yamaguchi, Hirotsugu; Fukushima, Naoto; Akatsu, Yohsuke; and Hano, Sunao, 4,702,490, Cl. 280-707.000.

Fukushima, Nobuo; and Iwata, Shuji, to Mitsubishi Denki Kabushiki Kaisha. Display unit. 4,680,629, 7-14-87, Cl. 358-147.000.

Fukushima, Nobuo: *See—*

Okino, Tadashi; and Fukushima, Nobuo, 4,675,738, Cl. 358-167.000.

Fukushima, Noburu; Yoshino, Hisashi; and Nomura, Shunji, to Kabushiki Kaisha Toshiba. PTC ceramic composition. 4,642,136, 2-10-87, Cl. 75-234.000.

Fukushima, Noriyasu; and Higashimoto, Takashi, to Daiwa Seiko Inc. Backlash preventing device for fishing reel. 4,674,699, 6-23-87, Cl. 242-84.52B.

Fukushima, Reizo: *See—*

Mochizuki, Tadao; Nakajima, Akira; and Fukushima, Reizo, 4,696,740, Cl. 210-151.000.

Fukushima, Shoji; Kato, Motosaburo; Mochizuki, Takashi; and Wada, Yukio, to Pola Chemical Industries, Inc. Method and apparatus for fusing together the bottom of tubular container formed of synthetic resin. 4,681,645, 7-21-87, Cl. 156-73.100.

Fukushima, Tadashi; Kobayashi, Yoshiki; Okuyama, Yoshiyuki; Katoh, Takeshi; and Kashioka, Seiji, to Hitachi, Ltd. Image signal processor. 4,665,556, 5-12-87, Cl. 382-41.000.

Fukushima, Takafumi: *See—*

Okuno, Shigeru; Torisawa, Yoshihiro; Endo, Mitsuharu; Nakayama, Tetsuroh; Shimosato, Masashi; and Fukushima, Takafumi, 4,696,589, Cl. 400-119.000.

Fukushima, Takeo: *See—*

Makihara, Katsumi; Yanagi, Kenichi; Fukushima, Takeo; Suganuma, Namio; Samejima, Ichiro; and Takahashi, Seiichi, 4,638,851, Cl. 165-32.000.

Yanagi, Kenichi; Makihara, Katsumi; Fukushima, Takeo; Hashimoto, Osamu; and Iida, Sachihiro, 4,644,667, Cl. 34-54.000.

Fukushima, Toshihiko: *See—*

Sayo, Kosaku; Tani, Seijiro; Miyamoto, Seigo; Emi, Kenji; and Fukushima, Toshihiko, 4,653,288, Cl. 62-210.000.

Fukushima, Toshiki; Endo, Yorimasa; and Nishiyama, Osamu, to Kabushiki Kaisha Toshiba. Wide range monitor apparatus for output from nuclear reactor. 4,652,419, 3-24-87, Cl. 376-254.000.

Fukushima, Toshitaka, to Seiko Instruments & Electronics Ltd. Electronic sphygmomanometer. 4,635,645, 1-13-87, Cl. 128-680.000.

Fukushima, Toshitaka, to Fujitsu Limited. Semiconductor device having a transistor with increased current amplification factor. 4,654,6 3-31-87, Cl. 357-46.000.

Fukushima, Tsunekazu; Emoto, Hiroshi; Kagitani, Yoshio; Yokoyama, Kazumasa; Nishida, Masayuki; and Suyama, Tadakazu, to Green Cross Corporation, The. Water soluble drug complex and method for production of same. 4,687,762, 8-18-87, Cl. 514-34.000.

Fukushima, Yaichi: *See—*

Motai, Hiroshi; Fukushima, Yaichi; and Ishiyama, Takashi, 4,684,527, Cl. 426-46.000.

Fukushima, Yasuhisa; Maruyama, Masuo; and Miyazaki, Benichi, to Matsushita Electric Industrial Co., Ltd. Disk cartridge having a shutter mechanism. 4,680,662, 7-14-87, Cl. 360-133.000.

Fukuta, Kenji; Kaneko, Takaoki; and Takahashi, Yoshinobu, to Toyota Jidosha Kabushiki Kaisha. Apparatus and method for plasma treatment of resin material. 4,678,644, 7-7-87, Cl. 422-186.050.

Fukuta, Kenji; Kaneko, Takaoki; and Takahashi, Yoshinobu, to Toyota Jidosha Kabushiki Kaisha. Apparatus and method for plasma treatment of resin material. 4,690,097, 9-1-87, Cl. 118-723.000.

Fukuta, Kenji; Komiyama, Matsuo; Katsuyama, Kazuo; and Tanno, Minoru, to Toyota Jidosha Kabushiki Kaisha; and Trinity Industrial Corporation. Two-component mixing type coating apparatus. 4,703,894, 11-3-87, Cl. 239-414.000.

Fukuta, Kinsho; and Sasaki, Shiro, to Toyota Jidosha Kabushiki Kaisha. Manual seat adjuster. 4,643,383, 2-17-87, Cl. 248-396.000.

Fukuta, Masaharu: *See—*

Ohtsuki, Toru; Oshima, Yoshio; Ishikawa, Sako; Yabe, Hideaki; and Fukuta, Masaharu, 4,677,583, Cl. 364-756.000.

Yabe, Hideaki; Oshima, Yoshio; Ishikawa, Sako; Ohtsuki, Toru; and Fukuta, Masaharu, 4,635,220, Cl. 364-763.000.

Fukuta, Masahiro: *See—*

Okamoto, Toshiaki; and Fukuta, Masahiro, 4,666,385, Cl. 418-201.000.

Fukutake, Heiji; and Iwata, Shozo, to Kabushiki Kaisha Daikin Seisakusho. Structure for supporting a diaphragm spring. 4,633,990, 1-6-87, Cl. 192-70.270.

Fukutani, Iwao: *See—*

Imamura, Eiji; Kumokawa, Takashi; Nakayama, Fumio; Mandai, Haruhumi; Fukutani, Iwao; and Tomono, Kunisaburo, 4,698,605, Cl. 333-184.000.

Fukutani, Kazunobu: *See—*

Dobashi, Toshio; Hara, Masaharu; and Fukutani, Kazunobu, 4,688,916, Cl. 354-288.000.

Fukutani, Masanori: *See—*

Okajima, Atushi; Yoshida, Hitoshi; Takeuchi, Yukihisa; and Fukutani, Masanori, 4,695,301, Cl. 55-523.000.

Fukutome Meat Packers, Ltd.: *See—*

Kasai, Minoru; Oka, Takao; Takamagari, Munenori; Shibata, Chiyoji; and Nakamura, Minoru, 4,682,385, Cl. 17-45.000.

Fukutomi, Hisao; Konishi, Takeshi; Kuraoka, Koji; Umeda, Morio; Tuchiya, Takanori; and Imura, Yutaka, to Mazda Motor Corporation. Upper body structure of an open-top vehicle. 4,695,089, 9-22-87, Cl. 296-107.000.

Fukutomi, Hisao: *See*—

Imura, Yutaka; Konisi, Takesi; Tuchiya, Takanori; Umeda, Morio; Fukutomi, Hisao; and Kuraoka, Koji, 4,651,470, Cl. 49-502.000.

Fukutomi, Makoto: *See*—

Fukuda, Mitsutoshi; Fukutomi, Makoto; Kogure, Osamu; and Miyoshi, Kazunori, 4,690,887, Cl. 430-331.000.

Fukutomi, Yohji; Kano, Hidekazu; and Kato, Akira, to Honda Giken Kogyo Kabushiki Kaisha. Ignition timing control method for internal combustion engines. 4,703,733, 11-3-87, Cl. 123-421.000.

Fukuura, Isamu; and Niwa, Shigeo, to NGK Spark Plug Co., Ltd. Artificial articulation. 4,636,218, 1-13-87, Cl. 623-18.000.

Fukuura, Isamu: *See*—

Masuda, Senichi; and Fukuura, Isamu, 4,652,318, Cl. 156-89.000.

Masuda, Senichi; Fukuura, Isamu; and Shiromizu, Hisaharu, 4,666,679, Cl. 422-186.200.

Masuda, Senichi; Fukuura, Isamu; Shiromizu, Hisaharu; and Morita, Naotoshi, 4,672,503, Cl. 361-230.000.

Watanabe, Masakazu; Okuno, Akiyasu; Nozaki, Shunkichi; Matsuo, Yasushi; and Fukuura, Isamu, 4,668,452, Cl. 264-63.000.

Fukuura, Yukio: *See*—

Akiyama, Setsuo; Fukuura, Yukio; Yoshikawa, Masato; Matsuda, Takeyuki; Monobe, Hisanobu; Ohkubo, Shigeki; and Yoshida, Shiro, 4,657,285, Cl. 235-256.000.

Morimura, Yasuhiro; Fukuura, Yukio; Ishikawa, Hikaru; Tanuma, Itsuo; and Honda, Toshio, 4,707,397, Cl. 428-216.000.

Fukuwatari, Ichiro, to Hitachi Kiden Kogyo Kabushikikaisha. Moving object stop control method by a linear motor. 4,652,800, 3-24-87, Cl. 318-135.000.

Fukuwatari, Ichiro, to Hitachi Kiden Kogyo Kabushiki Kaisha. Switching device for pneumatic conveyance linear motor actuated. 4,662,282, 5-5-87, Cl. 104-38.000.

Fukuyama, Goro: *See*—

Hashimoto, Kazuyoshi; Nakano, Tsuneo; Arita, Kazutoyo; Fukuyama, Goro; and Shimosato, Yoshio, 4,687,125, Cl. 226-21.000.

Fukuyama, Hiroomi, to Fanuc Ltd. Numerical control unit. 4,706,002, 11-10-87, Cl. 318-568.000.

Fukuyama, Kazuo: *See*—

Takizawa, Shozo; Kobayashi, Kazuyoshi; Fukuyama, Kazuo; Tani, Masanori; Yamamoto, Shoji; Yuasa, Hiroo; Nishimori, Masayoshi; Yoshida, Hiroaki; Eto, Shinichi; Hirao, Eiji; and Goto, Masaki, 4,709,935, Cl. 280-91.000.

Fukuyama, Keiichi: *See*—

Okano, Tamon; Kumobayashi, Hidenori; Akutagawa, Susumu; Kiji, Jitsuo; Konishi, Hisatoshi; Fukuyama, Keiichi; and Shimano, Yasunobu, 4,705,895, Cl. 564-15.000.

Fukuyama, Munekatsu: *See*—

Imakoshi, Shigeyoshi; Fukuyama, Munekatsu; Suyama, Hideo; and Souda, Yutaka, 4,691,259, Cl. 360-113.000.

Imakoshi, Shigeyoshi; Suyama, Hideo; Soda, Yutaka; Fukuyama, Munekatsu; and Iida, Yasuhiro, 4,703,378, Cl. 360-113.000.

Fukuyama Pearl Shiko Kabushiki Kaisha: *See*—

Matsui, Takashi, 4,704,510, Cl. 219-10.55E.

Fukuyama, Shun-ichi; Yoneda, Yasuhiro; Miyagawa, Masashi; and Nishii, Kota, to Fujitsu Limited. Use of polysilsesquioxane without hydroxyl group for forming mask. 4,657,843, 4-14-87, Cl. 430-323.000.

Fukuyama, Shun-ichi; Yoneda, Yasuhiro; Miyagawa, Masashi; Nishii, Kota; and Matsuura, Azuma, to Fujitsu Limited. Preparation of lower alkyl polysilsesquioxane and formation of insulating layer of silylated polymer on electronic circuit board. 4,670,299, 6-2-87, Cl. 427-96.000.

Fukuyama, Takahiko; Hori, Seiji; Ota, Yoshihiro; and Hayashi, Yoshikazu, to Kabushiki Kaisha Tokai Rika Denki Seisakusho. Interlock push-push switch device. 4,692,573, 9-8-87, Cl. 200-50.00C.

Fukuyama, Toshihiko: *See*—

Maeda, Kazuo; Tokumasu, Noboru; and Fukuyama, Toshihiko, 4,702,936, Cl. 427-54.100.

Fukuyama, Yasuo: *See*—

Okumura, Kunio; Fukuyama, Yasuo; and Tanaka, Atsuo, 4,640,808, Cl. 264-46.500.

Fukuyama, Yoshiya: *See*—

Watanabe, Katsuyoshi; and Fukuyama, Yoshiya, 4,657,954, Cl. 523-459.000.

Fukuyoshi, Minoru; Furuto, Takashi; and Nakamura, Tetsuo, to Mitutoyo Mfg. Co., Ltd. Non-directional touch signal probe. 4,701,704, 10-20-87, Cl. 324-207.000.

Fukuzaki, Tatsuo: *See*—

Yamamoto, Masafumi; and Fukuzaki, Tatsuo, 4,668,590, Cl. 428-446.000.

Fukuzawa, Soichi: *See*—

Shikamori, Tamotsu; Toshimitsu, Hiroyuki; Ohsugi, Hiroshi; Hiyama, Isao; and Fukuzawa, Soichi, 4,691,538, Cl. 68-12.00R.

Fukuzawa, Takahiko; and Kitahara, Kiyoshi, to Citizen Watch Co., Ltd. Bit pattern conversion apparatus. 4,691,364, 9-1-87, Cl. 382-41.000.

Fukuzawa, Takeshi: *See*—

Hibino, Yoshitaka; Fukuzawa, Takeshi; Sato, Hiromitsu; and Asakura, Masahiko, 4,705,011, Cl. 123-589.000.

Hibino, Yoshitaka; and Fukuzawa, Takeshi, 4,715,349, Cl. 123-585.000.

Fukuzo, Yukio, to NEC Corporation. Timing signal generator. 4,641,049, 2-3-87, Cl. 307-590.000.

Fukuzo, Yukio; and Inoue, Yasukazu, to NEC Corporation. Active pull-up circuit controlled by a single pull-up clock signal. 4,692,642, 9-8-87, Cl. 307-530.000.

Fukuzo, Yukio; and Inoue, Yasukazu, to NEC Corporation. Integrated circuit having a common input terminal. 4,695,980, 9-22-87, Cl. 365-222.000.

Fukuzumi, Shuzo: *See*—

Kawamura, Yoshihisa; and Fukuzumi, Shuzo, 4,640,249, Cl. 123-425.000.

Fulcher, Carol A.: *See*—

Zimmerman, Theodore S.; and Fulcher, Carol A., 4,649,132, Cl. 514-12.000.

Zimmerman, Theodore S.; and Fulcher, Carol A., 4,657,894, Cl. 514-21.000.

Fulcher, John, to Frito-Lay, Inc. Fried food product fried in synthetic cooking oils containing dicarboxylic acid esters. 4,673,581, 6-16-87, Cl. 426-531.000.

Fuldner, William V.; and Stoney, William E., to RCA Corporation. Spacecraft to shuttle docking method and apparatus. 4,657,211, 4-14-87, Cl. 244-161.000.

Fuldner, William V.; and Ganssle, Eugene R., to RCA Corporation. Spacecraft structure with symmetrical mass center and asymmetrical deployable appendages. 4,684,084, 8-4-87, Cl. 244-168.000.

Fulflo Specialties Co., Inc., The: *See*—

Robinson, James L., 4,705,063, Cl. 137-315.000.

Fulger, Charles V.; and Gum, Ernest K., to General Foods Corporation. Process for preparing an all grain, enzyme-saccharified cereal and product produced. 4,656,040, 4-7-87, Cl. 426-18.000.

Fulger, Charles V.; and Gum, Ernest K., to General Foods Corporation. All natural, ready-to-eat enzyme-saccharified cereal derived from whole cereal grain. 4,710,386, 12-1-87, Cl. 426-28.000.

Fulgurit GmbH & Co., Kommanditgesellschaft: *See*—

Breimeier, Kurt; Eickhoff, Heinrich; Erdmann, Hans-Walter; and Kuhnel, Hans D., 4,640,054, Cl. 49-504.000.

Fulier, Jozef, to Jednote rolnicke druzstvo Slovenskeho narodneho. Riveting tool for one side riveting of rivet nuts. 4,698,993, 10-13-87, Cl. 72-114.000.

Fulkerson, David E.; and Geske, Marvin L., to Wolff, George D. Position sensor for a fuel injection element in an internal combustion engine. 4,687,994, 8-18-87, Cl. 324-251.000.

Fulkerson, David W., and Smith, Lawrence W. Self-propelled percussion unit and method of using same. 4,715,471, 12-29-87, Cl. 181-121.000.

Fulkerson, Emmet M.; Somers, Ralph M.; and Compton, Diana R., to General Electric Company. Surface texture recognition using multi-directional scanning. 4,695,721, 9-22-87, Cl. 250-234.000.

Fulks, Robert G.; and Hager, Robert J., to Fulks, Robert G. Method and apparatus for sensing activity for a keyboard and the like. 4,649,784, 3-17-87, Cl. 84-1.100.

Full Vision, Inc.: *See*—

Benson, David A.; and Dilts, Ray A., 4,638,665, Cl. 72-389.000.

Fullemann, Jorg, to VTH AG. Device for heating a fluid and for cleaning waste gases from heating systems. 4,686,940, 8-18-87, Cl. 122-31.00R.

Fullemann, Jorg; and Boner, Heinrich, to Fullemann, Jorg. Burner, in particular burner for the combustion of liquid fuel in the gaseous state. 4,712,997, 12-15-87, Cl. 431-89.000.

Fullenkamp, Eugene H.; and Lohrey, Cecil R., to Hill-Rom Company, Inc. Medical service column and mounting bracket. 4,662,524, 5-5-87, Cl. 211-190.000.

Fullenkamp, Eugene H.: *See*—

Gallant, Dennis J.; and Fullenkamp, Eugene H., 4,646,211, Cl. 362-149.000.

Fuller, Charles L. Fume exhaust system for photo print processors. 4,695,146, 9-22-87, Cl. 354-309.000.

Fuller, Christopher R. Apparatus and method for global noise reduction. 4,715,559, 12-29-87, Cl. 244-1.00N.

Fuller, Clyde R.; Pollack, Gordon P.; Eklund, Robert H.; and Monahan, Dave, to Texas Instruments Incorporated. Plasma etching of refractory metals and their silicides. 4,659,426, 4-21-87, Cl. 156-643.000.

Fuller Company: *See*—

Cohen, Sidney M., 4,682,948, Cl. 432-58.000.

Dorman, William D., 4,668,184, Cl. 432-99.000.

Henninger, Stephen R., 4,671,310, Cl. 137-242.000.

Lawall, Thomas R., 4,662,945, Cl. 106-100.000.

Lawall, Thomas R.; and Lukacz, Stephen A., 4,708,644, Cl. 432-106.000.

Lawall, Thomas R., 4,715,811, Cl. 432-58.000.

Paul, Kermit D.; and Lohrmann, Peter C., 4,662,799, Cl. 406-14.000.

Schonbach, Bernard H., 4,694,997, Cl. 241-117.000.

Fuller, David C.: *See*—

Hengstenberger, Gary M.; Montavon, John I.; and Fuller, David C., 4,682,671, Cl. 182-3.000.

Fuller, Edward N.: *See*—

Every, Peter; Fuller, Edward N.; and Ayers, David T., 4,668,023, Cl. 303-100.000.

Fuller, John F., Jr., to H. J. Heinz Company. Dried fruit product. 4,654,222, 3-31-87, Cl. 426-640.000.

Fuller, John M.: *See*—

Barr, John D.; and Fuller, John M., 4,640,375, Cl. 175-410.000.

Barr, John D.; and Fuller, John M., 4,676,324, Cl. 175-393.000.

Fuller, Kevin S. Submerged bobber release device for fishing rods and the like. 4,713,031, 12-15-87, Cl. 441-8.000.

Fuller, Kip L.: *See—*
Collier, Donald W.; and Fuller, Kip L., 4,697,666, Cl. 180-272.000.

Fuller, Larry E.: *See—*
Martinez, Felix J.; Fuller, Larry E.; and Irmiter, Richard J., 4,645,645, Cl. 422-46.000.

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Bernath, Gabor; Kobor, Jeno; Fulop, Ferenc; Motika, Gabor; Sohajda, Attila; Ezer, Elemer; Hajos, Gyorgy; Palosi, Eva; Denes, Laszlo; and Szporny, Laszlo, 4,654,351, Cl. 514-307.000.
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Fulterer, Manfred, 4,690,571, Cl. 384-22.000.

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Fulton, Hubert S Trolling motor guide. 4,645,462, 2-24 440-6.000.

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Simpson, William W.; and Fulton, Irvin G., 4,697,4 53-551.000.

Fulton, Stephen M Triathlon time challenge game. 4,634,128, Cl. 273-246.000.

Fulton, Susan V.: *See—*
Murphey, Joseph R.; Totty, Kenneth D.; and Fulton, Su 4,665,988, Cl. 166-295.000.

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Fultz, James: *See—*
Whitaker, James; and Fultz, James, 4,633,585, Cl. 30-41.00

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Shoji, Hisashi; Haneda, Satoshi; Hiratsuka, Seiichiro; Fuma shi; Soma, Shinobu; Itaya, Masahiko; Tamura, Akihik Hayakawa, Kazushi, 4,669,864, Cl. 355-15.000.

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Fumey, Jurg, to Suhner Intertrade AG. Multipurpose machini 4,701,082, 10-20-87, Cl. 408-127.000.

Fuminao, Tanitomi, to Kaisei Kogyo Corporation. Tree prun chine. 4,690,184, 9-1-87, Cl. 144-2.00Z.

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Taniguchi, Harutaka; and Fumoto, Takafumi, 4,692,6 250-343.000.

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Funabashi, Motohisa: *See—*
Ohnari, Mikihiko; Funabashi, Motohisa; Shioya, Sekozawa, Teruji; and Shida, Masami, 4,697,566, Cl. 123-
Sekozawa, Teruji; Funabashi, Motohisa; Shioya, Makoto Michihiko; and Tokuda, Hiroatsu, 4,667,640, Cl. 123-49
Shioya, Makoto; Sekozawa, Teruji; Funabashi, Motohisa Masahiro; and Tokuda, Hiroatsu, 4,674,028, Cl. 364-148
Wakamori, Fumio; Ohata, Hideo; Miyaoka, Shinichi Funabashi, Motohisa, 4,712,182, Cl. 364-507.000.

Funabashi, Shuitsu: *See—*
Aoyama, Yoshiyuki; Funabashi, Shuitsu; and Matsuzaka, 4,659,938, Cl. 250-566.000.

Funabashi, Tsuneo; Iwasaki, Kazuhiko; Yamaguchi, Noboru; Shimura, Takanori; and Tatezaki, Junichi, to Hitachi, Ltd. Data processing system with an enhanced communication control system. 4,674,037, 6-16-87, Cl. 364-200.000.

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Hamada, Hiroshi; Funada, Fumiaki; and Matsuura, Masataka, 4,679,909, Cl. 350-333.000.

Hamada, Hiroshi; Nakazawa, Kiyoshi; Take, Hiroshi; Kimura, Naofumi; and Funada, Fumiaki, 4,706,173, Cl. 362-341.000.

Ishii, Yutaka; Funada, Fumiaki; and Matsuura, Masataka, 4,643,841, Cl. 252-299.610.

Ishii, Yutaka; Nakagawa, Kenichi; and Funada, Fumiaki, 4,708,439, Cl. 350-331.00R.

Kishi, Kohhei; Koden, Mitsuhiro; and Funada, Fumiaki, 4,684,435, Cl. 156-632.000.

Takafuji, Yutaka; Kato, Hiroaki; and Funada, Fumiaki, 4,654,959, Cl. 29-571.000.

Takeda, Makoto; Nonomura, Keisaku; and Funada, Fumiaki, 4,649,383, Cl. 340-805.000.

Funada, Saburo; Yoda, Yoshiro; Yoshikawa, Shoji; Doi, Masanori; and Sugawara, Kazutake, to Olympus Optical Co., Ltd. Optical recording and reproducing apparatus. 4,706,232, 11-10-87, Cl. 369-13.000.

Funada, Saburo: *See—*

Yoshikawa, Shoji, and Funada, Saburo, 4,651,314, Cl. 369-45.000.

Funae, Keizo: *See—*

Taki, Yoshihiro; Akado, Hajime; Funae, Keizo; and Inukai, Satoshi, 4,640,779, Cl. 210-493.500.

Funagoshi, Tomohide: *See—*

Itani, Kiyoshi; Tokizaki, Hisashi; Funagoshi, Tomohide; Ohtsuka, Nobuo; Ohkubo, Katsuhiro; and Katsuki, Hikaru, 4,698,744, Cl. 364-140.000.

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Funahashi, Masaya: *See—*

Matsumoto, Fujio; Doi, Hajime; Mizushima, Kunio; Funahashi, Masaya; Taniguchi, Tomizo; and Sakamoto, Shoichi, 4,709,816, Cl. 206-444.000.

Miyake, Akira; and Funahashi, Masaya, 4,647,502, Cl. 428-323.000.

Miyata, Teruhisa; Miyake, Akira; and Funahashi, Masaya, 4,666,769, Cl. 428-323.000.

Funahashi, Toshihiko: *See—*

Inokuti, Yukio; Ikeda, Shigeko; Funahashi, Toshihiko; and Ito, Yo, 4,690,855, Cl. 428-209.000.

Inokuti, Yukio; Ito, Yoh; and Funahashi, Toshihiko, 4,713,123, Cl. 148-113.000.

Funahashi, Yasuhiro: *See—*

Ogaki, Hirokazu; Funahashi, Yasuhiro; Koie, Hiroshi; and Kurachi, Tomoko, 4,674,055, Cl. 364-479.000.

Funahashi, Yoshiko; Kamino, Yoshikazu; Matsumura, Yasuharu; and Harimaya, Senichi, to Kawasaki Steel Corporation. Method for detecting phosphorus segregates in metallic material. 4,643,978, 2-17-87, Cl. 436-78.000.

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Funahashi, Yuichi: *See—*

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Watanabe, Junichiro; Funahashi, Yuichi; Sugiura, Kazuo; and Matsumoto, Hironori, 4,640,968, Cl. 528-32.000.

Watanabe, Junichiro; Funahashi, Yuichi; Sugiura, Kazuo; and Matsumoto, Hironori, 4,657,965, Cl. 524-506.000.

Funahata, Katuyuki: *See—*

Nagae, Yoshiharu; Numata, Shunichi; Kinjo, Noriyuki; and Funahata, Katuyuki, 4,641,924, Cl. 350-339.00R.

Funakawa, Naoyoshi; Demura, Hajime; and Nagamori, Nobuyuki, to Sato Kogyo Co., Ltd.; and Hitachi Carbide Tools Ltd. Milling cutter for cutting the contaminated surface of concrete. 4,684,297, 8-4-87, Cl. 407-41.000.

Funaki, Haruhiko: *See—*

Kaneko, Yoichi; Sekine, Kenji; and Funaki, Haruhiko, 4,647,869, Cl. 330-286.000.

Funaki, Hidefumi, to Anelva Corporation. Flexible magnetic recording medium comprising an underlying film having reduced in-plane magnetic anisotropy under a surface film having perpendicular magnetic anisotropy. 4,657,819, 4-14-87, Cl. 428-458.000.

Funaki, Kinsaku: *See—*

Koyase, Hiroyasu; Funaki, Kinsaku; and Morita, Atsuo, 4,642,138, Cl. 134-22.180.

Funaki, Kiyoshi: *See—*

Ishihara, Koushi; Murakami, Yasuji; Yoshizawa, Nobuyuki; and Funaki, Kiyoshi, 4,684,213, Cl. 350-96.230.

Funaki, Masaaki; Ohtani, Noboru; Yoshida, Motoaki; Fujioka, Akira; and Sakiyama, Kazuo, to Nippon Sheet Glass Co., Ltd.; and Sumitomo Chemical Company, Limited. Non-fogging coating composition and a shaped article coated therewith. 4,642,266, 2-10-87, Cl. 428-412.000.

Funaki, Motokatsu. Roof structure and roof board therefor. 4,715,157, 12-29-87, Cl. 52-529.000.

Funaki, Shinsuke; Akanabe, Yuichi; and Ikeda, Hiroaki, to Konishiroku Photo Industry Co., Ltd. Optical recording apparatus. 4,710,779, 12-1-87, Cl. 346-1.100.

Funaki, Takashi; and Nakatsuka, Katsuto, to Yakumo Industrial Corporation, a part interest. Vibration damping equipment. 4,679,775, 7-14-87, Cl. 267-64.270.

Funakoshi Pharmaceutical Co., Ltd.: *See—*

Asao, Tezro, 4,634,513, Cl. 204-301.000.

Funakoshi, Satoshi: *See—*

Ueda, Yasuo; Kagitani, Yoshio; Komeda, Snirou; and Funakoshi, Satoshi, 4,701,325, Cl. 424-164.000.

Uemura, Yahiro; and Funakoshi, Satoshi, 4,692,331, Cl. 424-85.000.

Funakoshi, Yasutomo; Miyazaki, Masamitu; Sakairi, Tadashi; and Suzuki, Kozo, to Matsushita Electric Industrial Co., Ltd. Electronic parts carrier with a chip-supporting top tape. 4,654,693, 3-31-87, Cl. 357-74.000.

Funakoshi, Yoshiyuki: *See—*

Asanuma, Tadashi; Ohoka, Tatuo; and Funakoshi, Yoshiyuki, 4,659,755, Cl. 523-303.000.

Funakubo, Hiroyasu: *See—*

Sekiguchi, Yukio; Funakubo, Hiroyasu; Sakanoue, Hitoyuki; and Komura, Osamu, 4,709,844, Cl. 228-3.100.

Funamoto, Takao: *See—*

Haramaki, Takashi; Shiota, Katsuhiko; Kokura, Satoshi; Funamoto, Takao; and Tomita, Akira, 4,645,119, Cl. 228-183.000.

Haramaki, Takashi; Funamoto, Takao; Kokura, Satoshi; Inagaki, Masahisa; Jinbou, Ryutaro; Sasaki, Toshimi; and Nagayama, Kousei, 4,691,856, Cl. 228-194.000.

Funaoka, Chihiro: *See—*

Teshima, Tohru; Funaoka, Chihiro; and Robert, Pierre H., 4,647,901, Cl. 340-52.00R.

Teshima, Tohru; Funaoka, Chihiro; and Robert, Pierre H., 4,647,902, Cl. 340-52.00R.

Funari, Joseph: *See—*

Bakos, Peter; Darrow, Russell E.; Franchak, Nelson P.; and Funari, Joseph, 4,670,325, Cl. 428-209.000.

Funato, Hiroyoshi, to Ricoh Company, Ltd. Multibeam photoscanner. 4,637,679, 1-20-87, Cl. 350-6.500.

Funato, Hiroyoshi, to Ricoh Company, Ltd. Photo scanner device. 4,678,263, 7-7-87, Cl. 350-3.710.

Funato, Hiroyoshi, and Banba, Nobuo, to Ricoh Company, Ltd. Hologram disk for deflecting a light beam. 4,712,852, 12-15-87, Cl. 350-371.000.

Funato, Hitoshi: *See—*

Ishikawa, Noriyoshi; Takahashi, Haruhiko; Funato, Hitoshi; Leng, Svay; Saitoh, Hiroyuki; Ohmori, Takashi; Kurata, Masami; and Katou, Yasuo, 4,661,703, Cl. 250-317.100.

Takahashi, Haruhiko; Inui, Toshiharu; Saitoh, Hiroyuki; Ishikawa, Noriyoshi; Funato, Hitoshi; Ohmori, Takashi; Kurata, Masami; and Katou, Yasuo, 4,709,149, Cl. 250-317.100.

Funato, Katsuro: *See—*

Sugiyama, Norihide; Funato, Katsuro; Nagase, Hiroshi; Yamamoto, Seiichi; and Miyamori, Shigeo, 4,702,989, Cl. 430-137.000.

Funato, Kazuhiko: *See—*

Harada, Osamu; Takeda, Yuji; Suematsu, Toshio; Anzai, Katsushi; and Funato, Kazuhiko, 4,708,113, Cl. 123-425.000.

Funato, Susumu: *See—*

Sagami, Yosuke; Yamamoto, Akira; Watanabe, Shoji; Isobe, Tomohisa; and Funato, Susumu, 4,703,338, Cl. 357-72.000.

Funato, Yasumichi: *See—*

Hamano, Hideo; Takeshita, Keiji; and Funato, Yasumichi, 4,697,781, Cl. 248-559.000.

Ikemoto, Kazuhito; Terakura, Yukio; and Funato, Yasumichi, 4,674,614, Cl. 192-53.00F.

Funatsu, Ryuichi: *See—*
Taniguchi, Motoya; Kuni, Asahiro; Funatsu, Ryuichi; Kembo, Yukio; and Inagaki, Akira, 4,666,291, Cl. 355-52.000.

Funatsu, Ryuuichi: *See—*
Komeyama, Yoshihiro; Kembo, Yukio; Kuni, Asahiro; Funatsu, Ryuuichi; Inagaki, Akira; Ikeda, Minoru; and Okamoto, Keiichi, 4,708,484, Cl. 356-401.000.

Funayama, Osamu: *See—*
Arai, Mikiro; Isoda, Takeshi; and Funayama, Osamu, 4,659,850, Cl. 556-409.000.

Funayama, Shinji: *See—*
Komiyama, Kanki; Funayama, Shinji; and Umezawa, Iwao, 4,701,324, Cl. 424-118.000.

Funazo, Yasuo: *See—*
Hinotani, Katsuhiro; Hayama, Hajime; Kishimoto, Shunichi; Miwa, Takashi; Funazo, Yasuo; and Kouno, Kazuhiro, 4,654,559, Cl. 313-422.000.

Funcik, Jack F.; Kolanowski, Clarence; Nugarus, Anthony R.; Pellegrino, Thomas P.; and Chmela, Frank, to Molex Incorporated. Electrical harnesses. 4,653,183, 3-31-87, Cl. 29-759.000.

Funck, Gordon W.: *See—*
Silbernagel, Raymond A.; and Funck, Gordon W., 4,698,025, Cl. 439-79.000.

Funck, Ronald; and Stevance, Jean, to Thomson-CSF. Slot-line switching and limiting device for operation at microwave frequencies. 4,642,584, 2-10-87, Cl. 333-17.00L.

Fundahn, Edward W.: *See—*
Hlinka, James J.; and Fundahn, Edward W., 4,671,727, Cl. 414-306.000.

Fundak, Davorin; and Adams, Larry R., to Tektronix, Inc. Dual resolution position control. 4,689,674, 8-25-87, Cl. 358-139.000.

Funderingstechnieken Verstraeten B.V.: *See—*
Verstraeten, Alexander J., 4,655,301, Cl. 175-171.000.
Verstraeten, Alexander J., 4,659,257, Cl. 405-248.000.

Fung, Anthony K.: *See—*
Luly, Jay R.; Plattner, Jacob J.; and Fung, Anthony K., 4,680,284, Cl. 514-18.000.

Fung, Bill S. K.; and Hrutfiord, Bjorn F., to Monsanto Company. Oxidation of acetovantillone to vanillin. 4,691,061, 9-1-87, Cl. 568-432.000.

Fung, Chris C. L.: *See—*
Shulman, Garson P.; and Fung, Chris C. L., 4,647,597, Cl. 521-185.000.
Shulman, Garson P.; and Fung, Chris C. L., 4,656,198, Cl. 521-56.000.
Shulman, Garson P.; and Fung, Chris C. L., 4,670,478, Cl. 521-88.000.

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Poeppelmeier, Kenneth R.; Funk, Walter G.; Steger, John J.; Fung, Shun C.; Cross, Virginia R.; and Kao, Jar-Lin, 4,648,960, Cl. 208-138.000.
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  Okabe, Yoshio; and Furudate, Masato, 4,634,828, Cl. 219-117.100.
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  Imai, Masafumi; Yamamoto, Tadashi; Furuhashi, Hiroyuki; Ueno, Hiroshi; and Inaba, Naomi, 4,652,541, Cl. 502-119.000.
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  Seo, Kiyokazu; Furuhashi, Kuniyoshi; Natori, Sadaaki; and Matsumoto, Masashi, 4,653,230, Cl. 49-502.000.

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  Tomisawa, Naoki; Furuhashi, Shoji; and Otani, Seiichi, 4,655,188, Cl. 123-489.000.

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  Ogura, Haruo; Furuhata, Kimio; Osawa, Toshiaki; Toyoshima, Satoshi; Shitori, Yoshiyasu; Ito, Masayoshi; and Yoshimura, Shoji, 4,691,012, Cl. 536-23.000.

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  Mitsukuchi, Kunio; Ito, Hiromitsu; Eguchi, Isamu; Hirasato, Bunji; and Furuhata, Takashi, 4,701,583, Cl. 200-148.00B.

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  Shimizu, Katsuichi; Sakamaki, Hisashi; Furuichi, Katsushi; and Honma, Toshio, 4,685,796, Cl. 355-14.00R.

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  Miyamoto, Mitsuya; Ooseki, Yasuyuki; and Nabae, Motohiro, 4,678,547, Cl. 204-37.100.

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  Himono, Yusaku; Moriya, Yoshiaki; Miyahara, Masato; and Suzuki, Kazuhiro, 4,695,124, Cl. 350-96.200.
  Ikeda, Akitoshi; Nishimura, Chitoshi; Katsuoka, Norio; and Obara, Masami, 4,715,582, Cl. 254-134.3CL.
  Ikeda, Masakiyo; Kojima, Seiji; Kikuchi, Hiroshi; and Kashiwayanagi, Yuzo, 4,705,700, Cl. 437-231.000.
  Iwasaki, Tamotsu; Ikoma, Toshiaki; and Okumura, Tsugunori, 4,648,095, Cl. 372-44.000.
  Kawazoe, Hideyo; Iino, Akira; and Orimo, Katsumi, 4,707,173, Cl. 65-3.120.
  Matsui, Kazumi; Otobe, Minoru; Takasue, Takashi; Iwasaki, Masami; and Oda, Masaki, 4,665,831, Cl. 104-165.000.
  Murase, Takashi; and Koizumi, Tatsuya, 4,675,783, Cl. 361-385.000.
  Sadamitsu, Kazuo; and Makino, Yoshiyuki, 4,706,713, Cl. 138-137.000.
  Sano, Fumikazu; and Mezaki, Masakazu, 4,716,079, Cl. 428-383.000.
  Takahashi, Yoshifusa; Kadonaga, Hiroshi; Ishikawa, Satoshi; and Kikuchi, Junichi, 4,644,587, Cl. 455-601.000.
  Uematsu, Tadayuki, 4,703,134, Cl. 174-106.0SC.

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Furukawa, Hiroaki: *See—*

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Furukawa, Hiromu; Masumoto, Yuji; and Saito, Shinobu, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Bearings for rotary machines. 4,668,105, 5-26-87, Cl. 384-99.000.

Furukawa, Hiroshi: *See—*

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Furukawa, Ikuo: *See—*

Fukuda, Tomeichiro; Soda, Takashi; Furukawa, Ikuo; Hayashi, Takushi; Kumata, Fujio; and Nagano, Susumu, 4,662,835, Cl. 425-145.000.

Furukawa, Junichi: *See—*

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Furukawa, Kaoru, to Matsushita Electric Works, Ltd. Quick charging circuit. 4,668,901, 5-26-87, Cl. 320-31.000.

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Yamada, Satoshi; and Furukawa, Kaoru, 4,710,695, Cl. 320-21.000.

Furukawa Keiichiro: *See—*

Udaka, Shigezo; Ueyama, Hideo; Taniguchi, Junichi; and Adachi, Keiji, 4,656,037, Cl. 424-118.000.

Furukawa, Kenji: *See—*

Inoue, Hiromichi; Saito, Shinichi; Terashima, Kanetsugu; Inukai, Takashi; and Furukawa, Kenji, 4,676,925, Cl. 252-299.650.

Saito, Shinichi; Inoue, Hiromichi; Terashima, Kanetsugu; Inukai, Takashi; and Furukawa, Kenji, 4,647,398, Cl. 252-299.650.

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Oka, Masataka; Furukawa, Masami; Kojima, Shinji; and Amatsu, Takeo, 4,650,818, Cl. 523-205.000.

Furukawa, Motoki: *See—*

Kishita, Yoshihiro; Furukawa, Motoki; and Mitani, Tatsuro, 4,650,543, Cl. 156-643.000.

Kishita, Yoshihiro; Furukawa, Motoki; and Mitani, Tatsuro, 4,674,174, Cl. 29-578.000.

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Yamano, Masaru; Sakai, Takashi; Furukawa, Nobuhiro; Murakami, Shuzo; and Matsumoto, Takanao, 4,636,445, Cl. 429-53.000.

Furukawa, Noriyuki: *See—*

Takemae, Shigeru; Takada, Yasuo; Tokuda, Shuichiro; Furukawa, Noriyuki; and Kodama, Hitoshi, 4,663,927, Cl. 57-6.000.

Furukawa, Satoshi: *See—*

Ishikawa, Shigeki; and Furukawa, Satoshi, 4,689,698, Cl. 360-69.000.

Kojima, Yasumichi; Ueno, Hideo; Hayashi, Yasuhiro; Suzuki, Makoto; and Furukawa, Satoshi, 4,671,684, Cl. 400-63.000.

Ogaki, Hirokazu; Kato, Yoshibumi; and Furukawa, Satoshi, 4,654,799, Cl. 364-479.000.

Sato, Yoshitsugu; and Furukawa, Satoshi, 4,698,626, Cl. 340-710.000.

Furukawa, Shigeru: *See—*

Hattori, Isao; and Furukawa, Shigeru, 4,714,423, Cl. 425-376.00R.

Furukawa, Shigetaka: *See—*

Kitagishi, Tomoji; Sasaki, Akira; Hakoyama, Akiyoshi; Furukawa, Shigetaka; Suzaki, Masafumi; Kobayashi, Ryooichi; Mikami, Katsumasa; Takahashi, Yoshihito; Nagano, Yousuke; and Honma, Takeo, 4,707,708, Cl. 346-76.0PH.

Furukawa, Shinji: *See—*

Ogasawara, Isamu; Maekawa, Kiyotsugu; Tomioka, Hiroyuki Furukawa, Shinji, 4,657,604, Cl. 148-304.000.

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Furukawa, Shiro: *See—*

Takeda, Yoshiyuki; Kawashima, Osamu; Furukawa, Shiro; Ogino, Yasukazu, 4,704,458, Cl. 546-90.000.

Furukawa, Shunske: *See—*

Suzuki, Tadao; Sako, Yoichiro; Furukawa, Shunske; Fur Tsuneo; and Baggen, Constant P. M. J., 4,680,764, Cl. 371-40

Furukawa, Shunsuke; Suzuki, Tadao; and Monen, Marinus J. B. M Sony Corporation. Disc playback apparatus. 4,641,295, 2-3-87, 369-32.000.

Furukawa, Takao: *See—*

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Furukawa, Tamotsu; and Mori, Masanori, to Aisin Seiki Kabu Kaisha. Automatic transmission having hydraulic and electr , control systems. 4,674,345, 6-23-87, Cl. 74-335.000.

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Nakao, Toshiyuki; Furukawa, Tamotsu; and Mori, Masa 4,653,352, Cl. 74-866.000.

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Izumi, Kouji; Horike, Masanori; Furukawa, Tatsuya; Ko Hiromichi; Naruse, Osamu; and Ebi, Yutaka, 4,677,845, 73-56.000.

Furukawa, Teruo; and Ozaki, Minoru, to Mitsubishi Denki Kabu Kaisha. Binary data encoding and decoding process. 4,672, 6-9-87, Cl. 340-347.0DD.

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Furutera, Masaharu; Furukawa, Tetsuro; and Matsushita, Yosh 4,662,191, Cl. 62-476.000.

Furutera, Masaharu; Furukawa, Tetsuro; Matsushita, Yoshiaki; Nakauchi, Kenji, 4,672,821, Cl. 62-324.200.

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Furukawa, Toshihiko, to Sodick Co., Ltd. Apparatus for pattern trolled electrode movement for E.D.M. 4,697,059, 9-29-87, Cl. 69.00W.

Furukawa, Toshio, to Tachikawa Spring Co., Ltd. Headrest mou structure for a vehicle seat. 4,639,041, 1-27-87, Cl. 297-391.000.

Furukawa, Toshio: *See—*

Akao, Takeshi; and Furukawa, Toshio, 4,709,487, Cl. 34-10.0

Furukawa, Yasuo: *See—*

Shirasaki, Masataka; Nakajima, Hirochika; Furukawa, Yasuo Inagaki, Takefumi, 4,637,027, Cl. 372-27.000.

Furukawa, Yoshimi; and Sano, Shoichi, to Honda Giken Kogyo K shiki Kaisha. Steering system for vehicles. 4,647,057, 3-3-87, 280-91.000.

Furukawa, Yoshimi; and Sano, Shoichi, to Honda Giken Kogyo K shiki Kaisha. Steering mechanism for motor vehicles. 4,647 3-3-87, Cl. 280-91.000.

Furukawa, Yoshimi: *See—*

Kawamoto, Yoshimich; Furukawa, Yoshimi; Hamada, Tetsuro Serizawa, Mitsuya, 4,687,216, Cl. 280-91.000.

Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Te and Serizawa, Mitsuya, 4,695,068, Cl. 280-91.000.

Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Te and Serizawa, Mitsuya, 4,697,816, Cl. 280-91.000.

Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Te and Serizawa, Mitsuya, 4,703,822, Cl. 180-140.000.

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Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Te and Serizawa, Mitsuya, 4,705,135, Cl. 180-236.000.

Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Te and Serizawa, Mitsuya, 4,706,976, Cl. 280-91.000.

Sano, Shoichi; and Furukawa, Yoshimi, 4,669,744, Cl. 280-9

Yamamoto, Osamu; Sano, Shoichi; and Furukawa, Yo . 4,660,844, Cl. 280-91.000.

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Kitano, Kisei; Ogawa, Tetsuya; Furukawa, Yoshito; Yo Naoyuki; Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, shiro; and Nigorikawa, Kazunori, 4,684,476, Cl. 252-299.6

Sugimori, Shigeru; Ogawa, Tetsuya; Goto, Yasuyuki; Iso Toyoshiro; Nigorikawa, Kazunori; Kitano, Kisei; Yo Naoyuki; and Furukawa, Yoshito, 4,673,529, Cl. 252-299.

Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toy Nigorikawa, Kazunori; Ogawa, Tetsuya; Kitano, Kisei; Y Naoyuki; and Furukawa, Yoshito, 4,684,478, Cl. 252-299.

Yoshida, Naoyuki; Kitano, Kisei; Furukawa, Yoshito; O Tetsuya; Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, shiro; and Nigorikawa, Kazunori, 4,640,796, Cl. 252-299.

Furukawa, Yoshitomo: *See—*

Shimizu, Toshiyuki; and Furukawa, Yoshitomo, 4,664,7 204-1.00T.

Furukawa, Yuusuke: *See—*

Yoshida, Mitsuo; Mizuno, Yoshikuni; Shimizu, Natsue; Mieko; Dobutsu, Masakatsu; Furukawa, Yuusuke; and Yutaka, 4,690,949, Cl. 514-561.000.

Furumai, Koro: *See—*

Tanaka, Eiichi; Furumai, Koro; and Kikutani, Fumitaka, 4,6 Cl. 431-76.000.

Furumoto, Horace W.: *See—*
  Pike, Charles T.; Furumoto, Horace W.; and Levin, Lawrence A., 4,636,287, Cl. 204-157.150.

Furumoto, Mitsumasa; Yamaguchi, Kouji; Kawahara, Eiichiro; and Ikejiri, Kenichi, to Honda Giken Kogyo Kabushiki Kaisha. Torque fluctuation absorber between a flywheel and a stepless hydraulic transmission. 4,646,520, 3-3-87, Cl. 60-469.000.

Furumoto, Mitsunobu; and Taniguchi, Hiroshi, to Matsushita Electric Industrial Co., Ltd. Apparatus for recording and reproducing identification words on a helically scanned tape. 4,656,536, 4-7-87, Cl. 360-72.200.

Furumura, Akio: *See—*
  Takizawa, Shozo; Tatemoto, Minoru; Furumura, Akio; Sugawara, Tadashi; Kariya, Shigeo; and Hiroshima, Kazuo, 4,685,689, Cl. 280-707.000.
  Takizawa, Shozo; Tatemoto, Minoru; Furumura, Akio; Sugawara, Tadashi; Kariya, Shigeo; and Hiroshima, Kazuo, 4,696,483, Cl. 280-6.00H.

Furumura, Takashi; and Ohba, Takeo, to Mitsubishi Denki Kabushiki Kaisha; and Max Co., Ltd. Control circuit for driving step motor. 4,642,544, 2-10-87, Cl. 318-696.000.

Furuno Electric Co., Ltd.: *See—*
  Yoshida, Takashi; Yoshioka, Takashi; and Endo, Yasuhiko, 4,672,589, Cl. 367-104.000.

Furuno, Nobuo, to Nippon Paint Co., Ltd. Water-deionizing system. 4,655,909, 4-7-87, Cl. 210-90.000.

Furunushi, Yasuko: *See—*
  Tsunoyama, Kouzou; Ohashi, Yoshiharu; Furunushi, Yasuko; and Konishi, Motoyuki, 4,690,558, Cl. 356-318.000.

Furusaki, Keizo: *See—*
  Matsuura, Toshitaka; Ohkawa, Teppei; Furusaki, Keizo; and Takami, Akio, 4,652,849, Cl. 338-34.000.

Furusawa, Choji; and Ishiguro, Toshiaki, to Aisin Seiki Kabushiki Kaisha. Transmission control system for automatic transmission. 4,658,676, 4-21-87, Cl. 74-866.000.

Furusawa, Choji; Goto, Shigeki; Maruchi, Satoshi; and Minemoto, Isamu, to Aisin Seiki Kabushiki Kaisha. Exhaust brake control system. 4,669,435, 6-2-87, Cl. 123-323.000.

Furusawa, Choji; and Ishiguro, Toshiaki, to Aisin Seiki Kabushiki Kaisha. Transmission for four-wheel drive vehicles. 4,677,879, 7-7-87, Cl. 74-866.000.

Furusawa, Choji: *See—*
  Inagaki, Toshiyuki; and Furusawa, Choji, 4,646,519, Cl. 60-416.000.
  Takahashi, Shigeo; Hasegawa, Hiromi; Furusawa, Choji; and Morisawa, Kunio, 4,651,773, Cl. 137-315.000.

Furusawa, Hironobu; and Taika, Tadao, to Toyo Boseki Kabushiki Kaisha. Polyester block copolymer composition. 4,670,498, 6-2-87, Cl. 524-381.000.

Furusawa, Kahei: *See—*
  Yamazaki, Yoshihiko; Ejiri, Yoshihiro; and Furusawa, Kahei, 4,653,846, Cl. 350-96.200.

Furusawa, Mitsuji; Ueno, Osamu; and Kobayashi, Hideyuki, to Oki Electric Industry Co., Ltd. File deletion system in a file unit. 4,663,736, 5-5-87, Cl. 364-900.000.

Furuse, Akio, to Kabushiki Kaisha Kosumo Keiki. Leakage inspection method with object type compensation. 4,686,638, 8-11-87, Cl. 364-558.000.

Furuse, Kazumaro: *See—*
  Hirama, Shinichi; Nishiyama, Toshio; Ohta, Youichi; Uzuka, Makoto; Tomita, Kenichi; Nakajima, Keisuke; and Furuse, Kazumaro, 4,713,397, Cl. 514-690.000.

Furuse, Kiyoshi, to Kabushiki Kaisha Kosumo Keiki. Pressure variation detecting type leakage inspection equipment. 4,670,847, 6-2-87, Cl. 364-507.000.

Furuse, Kiyoshi, to Kabushiki Kaisha Kosumo Keiki. Pressure variation detecting type leakage inspection system with temperature compensation. 4,675,834, 6-23-87, Cl. 364-558.000.

Furuse, Masayasu: *See—*
  Namiki, Tetsuro; Furuse, Masayasu; Kuroyanagi, Yoshimitsu; and Miyata, Teruo, 4,714,758, Cl. 530-354.000.
  Noishiki, Yasuharu; Kodaira, Kazuhiko; Furuse, Masayasu; Miyata, Teruo; Miyamoto, Takeaki; and Ito, Hiraku, 4,690,973, Cl. 525-54.100.

Furushima, Teruhiko; Masaki, Yuichi; Fukaya, Masaki; and Sekimura, Nobuyuki, to Canon Kabushiki Kaisha. Photosensor array for treating image information. 4,650,984, 3-17-87, Cl. 250-211.00R.

Furushima, Teruhiko: *See—*
  Itabashi, Satoshi; Kawakami, Soichiro; Terada, Katsunori; Suzuki, Hideyuki; Furushima, Teruhiko; and Fukaya, Masaki, 4,705,598, Cl. 156-643.000.
  Sekimura, Nobuyuki; Fukaya, Masaki; Nakagawa, Katsumi; Komatsu, Toshiyuki; Shoji, Tatsumi; and Furushima, Teruhiko, 4,667,214, Cl. 357-30.000.

Furusho, Takao: *See—*
  Kanno, Akihiko; Muto, Shigeaki; Niimura, Koichi; Ando, Takao; Fujii, Takayoshi; Fujii, Masahiko; Furusho, Takao; and Yoshikumi, Chikao, 4,690,920, Cl. 514-201.000.
  Muto, Shigeaki; Ando, Takao; Fujii, Takayoshi; Kanno, Akihiko; Onishi, Yoko; Motokawa, Isamu; Furusho, Takao; and Yoshikumi, Chikao, 4,681,877, Cl. 514-206.000.
  Yoshikumi, Chikao; Fujii, Takayoshi; Furusho, Takao; Matsunaga, Kenichi; Ohara, Minoru; and Kobayashi, Akira, 4,663,438, Cl. 530-395.000.

Furuta, Akihiro: *See—*
  Hanabata, Makoto; Furuta, Akihiro; Yasui, Seimei; and Tanaka, Kunihiko, 4,696,886, Cl. 430-192.000.

Furuta, Hideya; Koizumi, Yutaka; Mamizuka, Mitsuru; and Sakai, Yoshihiro, to Ricoh Company, Ltd. Color copying apparatus. 4,690,542, 9-1-87, Cl. 355-4.000.

Furuta, Hideya: *See—*
  Adachi, Tsukasa; Shinguryo, Satoshi; Furuta, Hideya; Sakai, Yoshihiro; Ikeda, Itsuo; and Sakai, Katsuo, 4,655,579, Cl. 355-4.000.
  Koizumi, Yutaka; Furuta, Hideya; Sakai, Yoshihiro; Mamizuka, Mitsuru; Adachi, Tsukasa; Ikeda, Itsuo; and Sakai, Katsuo, 4,664,501, Cl. 355-4.000.
  Sakai, Yoshihiro; Koizumi, Yutaka; Mamizuka, Mitsuru; and Furuta, Hideya, 4,662,739, Cl. 355-14.00R.
  Sakai, Yoshihiro; Ikeda, Ituso; Sakai, Katsuo; Adachi, Tsukasa; Shinguryo, Satoshi; and Furuta, Hideya, 4,690,541, Cl. 355-4.000.

Furuta, Michihiro, to Mitsubishi Denki Kabushiki Kaisha. Fault determining apparatus for data transmission system. 4,639,917, 1-27-87, Cl. 371-16.000.

Furuta, Mitsuo; and Uchida, Shinji, to Bridgestone Co., Ltd. Core of rubber crawler. 4,678,244, 7-7-87, Cl. 305-57.000.

Furuta, Sigeki: *See—*
  Nakashima, Toru; Inoue, Haruhiko; and Furuta, Sigeki, 4,700,177, Cl. 340-388.000.

Furuta, Yohichi; Yamasaki, Takeo; Tacnino, Tomio; and Tanikawa, Masayoshi, to Aisin Seiki Kabushiki Kaisha; and Toyoto Jidosha Kabushiki Kaisha. Stick type vehicle hand brake lever means. 4,643,043, 2-17-87, Cl. 74-503.000.

Furuta, Yoichi: *See—*
  Nakamura, Kaoru; Sakata, Shinji; Ochiai, Chiaki; Furuta, Yoichi; and Tsubouchi, Kaoru, 4,707,989, Cl. 60-589.000.

Furuta, Yoshiteru; and Nomura, Yasushi, to Hitachi, Ltd. Apparatus and method for optically analyzing a plurality of analysis items in a sample in a container. 4,668,617, 5-26-87, Cl. 435-4.000.

Furuta, Youichi: *See—*
  Nishii, Michiharu; Furuta, Youichi; Tsubouchi, Kaoru; Murata, Takeo; Shibatani, Juichi; and Kiriyama, Takashi, 4,683,807, Cl. 92-169.000.

Furutachi, Nobuo: *See—*
  Sato, Tadahisa; Kawagishi, Toshio; and Furutachi, Nobuo, 4,705,863, Cl. 548-262.000.
  Umemoto, Makoto; Nakamura, Kotaro; and Furutachi, Nobuo, 4,696,893, Cl. 430-543.000.

Furutani, Kiyohiro; Mashiko, Koichiro; and Arimoto, Kazutami, to Mitsubishi Denki Kabushiki Kaisha. Semiconductor memory device. 4,710,789, 12-1-87, Cl. 357-23.600.

Furutani, Shigeki: *See—*
  Kanazawa, Hirotaka; Takatani, Teruhiko; Furutani, Shigeki; Chikuma, Isamu; Shimada, Satoru; and Eda, Hiroshi, 4,646,867, Cl. 180-140.000.
  Kanazawa, Hirotaka; Tanaka, Takeshi; Furutani, Shigeki; and Miyoshi, Akihiko, 4,673,189, Cl. 280-91.000.

Furutera, Masaharu; Furukawa, Tetsuro; and Matsushita, Yoshiaki, to Hitachi Zosen Corporation. Absorption - type refrigeration system. 4,662,191, 5-5-87, Cl. 62-476.000.

Furutera, Masaharu; Furukawa, Tetsuro; Matsushita, Yoshiaki; and Nakauchi, Kenji, to Hitachi Zosen Corporation. Absorption-type heat pump. 4,672,821, 6-16-87, Cl. 62-324.200.

Furuto, Takashi: *See—*
  Fukuyoshi, Minoru; Furuto, Takashi; and Nakamura, Tetsuo, 4,701,704, Cl. 324-207.000.

Furutsu, Akira, to Japan Bano'k Co., Ltd.; and Ben Clements & Sons, Inc. Banding machine. 4,683,920, 8-4-87, Cl. 140-93.00A.

Furuya, Akira: *See—*
  Katsumata, Ryoichi; Oka, Tetsuo; and Furuya, Akira, 4,681,847, Cl. 435-172.300.
  Katsumata, Ryoichi; Ozaki, Akio; Oka, Tetsuo; and Furuya, Akira, 4,683,205, Cl. 435-172.300.
  Katsumata, Ryoichi; Ozaki, Akio; Oka, Tetsuo; and Furuya, Akira, 4,710,471, Cl. 435-253.000.

Furuya, Harumi, to Henry Mann, Inc. Apparatus for loose feeding of electrical components. 4,677,732, 7-7-87, Cl. 29-563.000.

Furuya, Kenji: *See—*
  Tamura, Hideo; Shibata, Hisashi; and Furuya, Kenji, 4,668,888, Cl. 310-233.000.

Furuya, Kiyoto, to Daiichi Denshi Kogyo Kabushiki Kaisha. Material for electric contacts. 4,650,723, 3-17-87, Cl. 428-622.000.

Furuya, Kiyoto, to Daiichi Denshi Kogyo Kabushiki Kaisha. Electric contacts and electric connectors. 4,662,702, 5-5-87, Cl. 339-176.0MP.

Furuya, Kunitoshi: *See—*
  Kato, Yasuki; Hayakawa, Eiji; Furuya, Kunitoshi; and Kondo, Akira, 4,675,183, Cl. 424-85.000.

Furuya, Mikihito; and Saegusa, Takashi, to Nippon Kogaku K. K. Display method and apparatus for camera. 4,688,922, 8-25-87, Cl. 354-441.000.

Furuya, Nobuaki; Nakayama, Yasuhiko; and Watanabe, Yoshio, to Matsushita Electric Industrial Co., Ltd. Magnetic head for effecting perpendicular magnetic recording. 4,672,494, 6-9-87, Cl. 360-125.000.

Furuya, Rikizo: *See—*
  Okushima, Hiromi; Narimatsu, Akihiro; Kobayashi, Makio; Furuya, Rikizo; and Kitada, Yoshimi, 4,661,484, Cl. 514-242.000.

Furuya, Shin-ichi: *See—*
  Togashi, Minoru; Kato, Kenshiro; and Furuya, Shin-ichi, 4,669,519, Cl. 152-454.000.

Furuya, Tai; and Koike, Keiji, to Ebara Corporation. Centrifugal compressor. 4,645,419, 2-24-87, Cl. 415-210.000.

Furuya, Tamio: *See—*
  Kinugasa, Toshiyuki; Furuya, Tamio; Ishige, Yoshiki; Tsuchimoto, Yuichi; and Takahashi, Shoji, 4,714,424, Cl. 425-388.000.

Otsuka, Nobuyuki; Kasuya, Atsuo; Nakayama, Yusho; Kumashiro, Masayuki; Furuya, Tamio; and Kaiho, Shigeo, 4,689,979, Cl. 72-57.000.

Furuya, Tsuneo; and Hori, Katsuya, to Sony Corporation. Apparatus for correcting errors. 4,644,544, 2-17-87, Cl. 371-37.000.

Furuya, Tsuneo; and Inazawa, Yoshizumi, to Sony Corporation. Disc player with search noise suppression. 4,682,312, 7-21-87, Cl. 369-32.000.

Furuya, Tsuneo: *See—*

Suzuki, Tadao; Sako, Yoichiro; Furukawa, Shunske; Furuya, Tsuneo; and Baggen, Constant P. M. J., 4,680,764, Cl. 371-40.000.

Furuya, Yoshikatsu: *See—*

Hirose, Kimiharu; and Furuya, Yoshikatsu, 4,646,887, Cl. 192-8.00C.

Furuya, Yuhki: *See—*

Tange, Kohsuke; Takahashi, Osamu; Furuya, Yuhki; and Harada, Akira, 4,683,644, Cl. 437-7.000.

Furuyama, Hideto; and Hirayama, Yuzo, to Kabushiki Kaisha Toshiba. Method of fabricating a mesa stripe on a semiconductor wafer plane. 4,676,863, 6-30-87, Cl. 156-626.000.

Furuyama, Hideto: *See—*

McIlroy, Paul W. A.; Kurobe, Atsushi; and Furuyama, Hideto, 4,701,774, Cl. 357-17.000.

Furuyama, Kuninori; and Ito, Yoshiro, to Mitsui Mining Company, Limited; and Mitsui Miike Engineering Corp. Reactor of moving bed type. 4,670,226, 6-2-87, Cl. 422-216.000.

Furuyama, Tohru; and Ohsawa, Takashi, to Kabushiki Kaisha Toshiba. Memory test circuit. 4,686,456, 8-11-87, Cl. 324-73.00R.

Furuyama, Tohru; and Uchida, Yukimasa, to Tokyo Shibaura Denki Kabushiki Kaisha. Dynamic type semiconductor memory device. 4,697,252, 9-29-87, Cl. 365-189.000.

Furuyama, Tsutomu: *See—*

Shibata, Masaharu; Furuyama, Tsutomu; and Ohkoshi, Kazuo, 4,715,202, Cl. 72-21.000.

Furuyoshi, Shigeo; and Tani, Nobutaka, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Lipoprotein adsorbent for use in extracorporeal circulation treatment and process for preparing thereof. 4,654,420, 3-31-87, Cl. 536-59.000.

Furuyoshi, Shigeo; and Tani, Nobutaka, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Lipoprotein adsorbent for use in extracorporeal circulation treatment and process for preparing thereof. 4,656,261, 4-7-87, Cl. 536-59.000.

Furze, Paul: *See—*

Lombardo, Frank; Jernigan, Edward L.; and Furze, Paul, 4,637,856, Cl. 156-637.000.

Fusaka, Yoshifumi, to Sharp Kabushiki Kaisha. Unit-type operating apparatus. 4,634,823, 1-6-87, Cl. 200-61.58R.

Fusamoto, Akira: *See—*

Inoue, Kimio; Fukumizu, Shinichi; and Fusamoto, Akira, 4,652,138, Cl. 366-89.000.

Fusaro, Louis V. Auto travel ski bag. 4,644,986, 2-24-87, Cl. 150-52.00R.

Fuschetto, Anthony N., to Perkin-Elmer Corporation, The. Pressure compensated flexible elbow for fluid cooled optical element. 4,647,163, 3-3-87, Cl. 350-610.000.

Fusco, James V.: *See—*

Gardner, Irwin J.; Fusco, James V.; and Baldwin, Francis P., 4,634,741, Cl. 525-355.000.

Gardner, Irwin J.; and Fusco, James V., 4,649,178, Cl. 525-306.000.

Gardner, Irwin J.; Fusco, James V.; and Baldwin, Francis P., 4,681,921, Cl. 525-357.000.

Gardner, Irwin J.; Fusco, James V.; Newman, Neil F.; Kowalski, Ronald C.; Davis, William M.; and Baldwin, Francis P., 4,703,091, Cl. 525-332.300.

Fuse, Kazuo: *See—*

Ikebuchi, Iwao; Fuse, Kazuo; and Ganse, Akira, 4,660,776, Cl. 241-53.000.

Fuse, Masashi: *See—*

Harumatsu, Masatoshi; Fuse, Masashi; Tomoyori, Makoto; and Tsushima, Noboru, 4,672,563, Cl. 364-559.000.

Tsushima, Noburu; Fuse, Masashi; Mimori, Teruo; Sasaki, Toshio; and Mukai, Tadashi, 4,673,878, Cl. 324-226.000.

Fuse, Takahiro; Kawamura, Masao; Yamagishi, Koji; Odachi, Kazuyuki; Ono, Haruo; and Kizaki, Masaharu, to Casio Computer Co., Ltd. Television video signal A/D converter apparatus. 4,642,693, 2-10-87, Cl. 358-236.000.

Fuse, Takahiro: *See—*

Yamagishi, Koji; Fuse, Takahiro; Kawamura, Masao; and Matsui, Shinichi, 4,642,694, Cl. 358-236.000.

Fuse, Takeyuki: *See—*

Suyama, Hideo; Imakoshi, Shigeyoshi; Soda, Yutaka; Fuse, Takeyuki; Abe, Iwao; and Wakabayashi, Noboru, 4,673,999, Cl. 360-125.000.

Fused Kontacts of Chicago, Inc.: *See—*

Chapman, Dwain R., 4,709,066, Cl. 556-437.000.

Tsuetaki, George F.; and Sato, Shiro, 4,693,572, Cl. 351-161.000.

Fuseda, Yuichi: *See—*

Kimura, Tsutomu; Fuseda, Yuichi; and Hishinuma, Kazuhiro, 4,700,299, Cl. 364-414.000.

Fusek, Richard L.; and Lin, Lawrence H., to Insystems, Inc. Positioning alignment apparatus and method using holographic optical elements. 4,712,851, 12-15-87, Cl. 350-3.600.

Fushida, Akira; Matsui, Toshikazu; Hasegawa, Yuuji, Maeda, Masahiko; Tsuji, Nobuyuki; Horiuchi, Akira; and Yukitake, Kazunori, to Mita Industrial Co., Ltd. Method for forming negative and positive images in electrophotographic process. 4,652,510, 3-24-87, Cl. 430-122.000.

Fushida, Akira: *See—*

Matsui, Toshikazu; Fushida, Akira; Honda, Nobuyasu; Nakao Minoru; and Tsuji, Nobuyuki, 4,686,935, Cl. 118-658.000.

Fushiki, Yasuo: *See—*

Gotou, Masana; Isshiki, Minoru; Uozumi, Shoji; Ohizum Masayuki; and Fushiki, Yasuo, 4,662,973, Cl. 156-307.400.

Fushimi, Hitoshi: *See—*

Tomizawa, Hiroshi; Okada, Masakazu; Yasumoto, Seich Mizokawa, Sadao; Fushimi, Hitoshi; Onuki, Ken; Takahash Masahiro; and Hamada, Takuji, 4,704,714, Cl. 370-15.000.

Fushimi, Ikuo: *See—*

Sakuragi, Takamasa; and Fushimi, Ikuo, 4,716,305, Cl. 30 296.00R.

Fushimoto, Hideo, to Canon Kabushiki Kaisha. Electronic equipment 4,652,976, 3-24-87, Cl. 361-413.000.

Fushimoto, Hideo, to Canon Kabushiki Kaisha. Electronic apparatu with a battery. 4,661,889, 4-28-87, Cl. 361-424.000.

Fushimoto, Hideo: *See—*

Nishimuro, Yoshiaki; Hirata, Osamu; Kano, Kuniomi; Miyakawa Akira; Fushimoto, Hideo; and Sekine, Kazumi, 4,698,783, Cl 364-710.000.

Fushiya, Fusao; Hakamata, Nobuo; Abe, Hiroyuki; and Inoue Nobuhiro, to Makita Electric Works, Ltd. Portable miter saws 4,638,700, 1-27-87, Cl. 83-467.00R.

Fusi, Gaetano; and Meniconi, Silvio, to Sivep di Meniconi Giorgio & C.S.a.s. Paint spreader apparatus for the maintenance of installed poles, with paint ejector and spreading rollers. 4,677,935, 7-7-87, Cl 118-108.000.

Fusion Aided Combustion Technology International Corporation *See—*

Berenyi, Szilard, 4,668,247, Cl. 44-68.000.

Fusion Systems Corporation: *See—*

Camm, David M., 4,683,525, Cl. 362-346.000.

Hill, James D.; and Wooden, Gene R., 4,695,694, Cl. 219-10.55D

Petelin, Andrei N.; Sharp, Celia M.; Ury, Michael G.; and Wooden Gene R., 4,641,033, Cl. 250-492.100.

Ury, Michael G.; and Wood, Charles H., 4,695,757, Cl. 313-44.00

Wood, Charles H., 4,652,790, Cl. 313-112.000.

Wood, Charles H.; and Stowe, Richard W., 4,703,173, Cl 250-227.000.

Wood, Charles H., 4,710,638, Cl. 250-492.100.

Fuso Keigokin Co., Ltd.: *See—*

Doi, Hachiro; and Yaegashi, Masayuki, 4,706,446, Cl. 56-295.00

Takahashi, Katsuhiko, 4,655,280, Cl. 165-47.000.

Fuss, Hermann; and Glockner, Hermann, to SKF GmbH. Load-measuring arrangement. 4,667,521, 5-26-87, Cl. 73-862.540.

Fuss, Peter: *See—*

Pohl, Ludwig; Scheuble, Bernhard; Wachtler, Andreas; Hittich Reinhard; and Fuss, Peter, 4,707,295, Cl. 252-299.620.

Fuss, Rainer. Upholstered furniture. 4,672,695, 6-16-87, Cl. 5-2.00R.

Fuss, Robert L.: *See—*

Sofianek, Jay K., Nally, John F.; Rush, James H.; Fuss, Robert L Williams, John E.; and Ruckey, Allan M., 4,646,974, Cl 239-585.000.

Fusselman, David F., to Du Pont de Nemours, E. I., and Company Shielded connector with latches. 4,641,902, 2-10-87, Cl. 339-91.00R

Fussenegger, Werner: *See—*

Orban, Ivan; and Fussenegger, Werner, 4,683,326, Cl. 560-75.00

Fusy, Joel, to FMC Corporation. Arrangement for disassembling sealing and bearing means from rotary pipe joints. 4,715,404, 12-29-87, Cl 137-615.000.

Futa, Kyozo: *See—*

Yamato, Akihiro; Koike, Yuzuru; and Futa, Kyozo, 4,681,075, Cl 123-339.000.

Futaba Denshi Kogyo Kabushiki Kaisha: *See—*

Eto, Goro; Itoh, Shigeo; Yokoyama, Mikio; and Tonegawa, Takeshi, 4,666,548, Cl. 156-286.000.

Kawasaki, Hiroaki; and Kanetsuna, Nobumitsu, 4,688,029, Cl 340-754.000.

Kimizuka, Norio; Sogabe, Akira, and Abo, Mituyosi, 4,638,421, Cl 364-167.000.

Kuwamoto, Michio; Takahashi, Masahiro; and Hasegawa Masafumi, 4,651,055, Cl. 313-496.000.

Morimoto, Kiyoshi; Watanabe, Hiroshi; and Tsuruoka, Yoshihisa 4,666,415, Cl. 445-24.000.

Nagasawa, Satoshi, 4,665,535, Cl. 375-120.000.

Suzuki, Nobuhiro, 4,687,975, Cl. 318-261.000.

Suzuki, Nobuhiro, 4,703,241, Cl. 318-599.000.

Watanabe, Hiroshi; and Morimoto, Kiyoshi, 4,675,572, Cl 313-495.000.

Watanabe, Hiroshi; and Shimizu, Yukihiko, 4,701,670, Cl 315-169.300.

Yamaura, Tatsuo; and Takahashi, Hisamitsu, 4,680,231, Cl 428-407.000.

Futaba Kogyo Yugen Kaisha: *See—*

Endo, Yoshimasa, 4,676,013, Cl. 37-2.00R.

Futabadenki Kogyo Kabushiki Kaisha: *See—*

Kawai, Keiichi; Yasuda, Setsuo; and Sakaime, Zenichiro, 4,669,149, Cl. 17-33.000.

Kawai, Keiichi; Yasuda, Setsuo; and Sakaime, Zenichiro, 4,696,079, Cl. 17-33.000.

Futada, Akihiko: *See—*

Yasuda, Syoichi; Tokuno, Akihira; Futada, Akihiko; Hayashi Yoshiharu; Kobori, Kiyoshi; and Ishida, Takayoshi, 4,700,220, Cl. 358-44.000.

Futagami, Mikio: *See—*
- Kato, Yasuyuki; Yuyama, Masahiro; Moritani, Masahiko; and Futagami, Mikio, 4,699,964, Cl. 526-193.000.

Futagawa, Minoru: *See—*
- Sugita, Minoru; Nakatsuji, Teruyuki; Fujisaki, Tadashi; Hiraga, Hisao; Nishimoto, Takashi; and Futagawa, Minoru, 4,706,430, Cl. 52-309.160.

Futagawa, Toshinobu. Information input machine. 4,660,034, 4-21-87, Cl. 340-825.790.

Futagawa, Toshinobu. Apparatus for driving tapes. 4,681,273, 7-21-87, Cl. 242-55.000.

Futakami, Katsuyuki: *See—*
- Miyahara, Tsuneo; Harada, Yoshihiro; Futakami, Katsuyuki; Nishida, Yasukuni; and Konishi, Ryoko, 4,693,888, Cl. 424-49.000.

Futakami, Shigeru: *See—*
- Miyajima, Akira; Tsuzuki, Akira; Ohno, Hideshi; Futakami, Shigeru; Ogura, Takashi; Oguchi, Toshiaki; Yoshida, Masaru; Kimura, Satoshi; Takahashi, Kotaro; Sakamoto, Hiroya; and Nakajima, Koichi, 4,652,932, Cl. 358-236.000.

Futakata, Takashi: *See—*
- Tajima, Noriyasu; Sakura, Yasuhiro; Futakata, Takashi; Senda Kouji; and Seki, Kazuaki, 4,700,792, Cl. 177-178.000.

Futaki, Kiyoshi: *See—*
- Torizuka, Koichi; and Futaki, Kiyoshi, 4,693,955, Cl. 430-204.000.

Futami, Masaru: *See—*
- Honda, Toyoharu; and Futami, Masaru, 4,653,375, Cl. 84-1.010.

Futami, Shigeru: *See—*
- Ohno, Hideshi; Tsuzuki, Akira; Oguchi, Toshiaki; Futam , Shigeru; Yoshida, Masaru; Kimura, Satoshi; Uematsu Hiroyuki; Nakajima, Kouichi; Matsuyama, Katuo; Sakamoto, Hiroya; Takayama, Yasuhiko; Matsumura, Osamu; and Sakaguchi, Toshio, 4,646,158, Cl. 358-236.000.

Futami, Takashi: *See—*
- Ichihara, Takeo; Watanabe, Shuichi; Futami, Takashi; and Oda, Nobutaka, 4,703,401, Cl. 362-80.000.

Futami, Toru: *See—*
- Noso, Kazunori; Kishi, Norimasa; and Futami, Toru, 4,637,045, Cl. 381-43.000.
- Suzuki, Tadashi; Futami, Toru; and Sakagami, Atsushi, 4,674,084, Cl. 370-85.000.
- Suzuki, Tadashi; Futami, Toru; and Sakagami, Atsushi, 4,694,294, Cl. 340-825.140.
- Suzuki, Tadashi; Tomikashi, Minoru; Futami, Toru; and Sakagami, Atsushi, 4,706,245, Cl. 370-85.000.

Futami, Toshio: *See—*
- Akiba, Yutaka; Hirota, Kazuo; Kishiro, Nobuo; Futami, Toshio; and Hamamoto, Tatsuo, 4,694,423, Cl. 365-2.000.

Futamoto, Masaaki; Honda, Yukio; Uesaka, Yasutaro; and Yoshida, Kazuetsu, to Hitachi, Ltd.; and Hitachi Maxell Ltd. Perpendicular magnetic recording medium. 4,707,756, 11-17-87, Cl. 360-131.000.

Futamura, Kazumasa, to Toyota Jidosha Kabushiki Kaisha. Mechanical valve lifter construction adapted for mechanical/hydraulic valve lifter interchangability. 4,677,945, 7-7-87, Cl. 123-90.480.

Futamura, Kenichiro; Ohtsu, Keiichiro; Fukuoka, Tatsuhiko; Takenaka, Kenji; Itakura, Yoshio; and Koga, Hiroshi, to Taiho Kogyo Kabushiki Kaisha; and Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Swash plate type compressor having a center cavity in surface of piston shoe. 4,641,570, 2-10-87, Cl. 92-71.000.

Futamura, Kenichiro; and Ohtsu, Keiichiro, to Taiho Kogyo Kabushiki Kaisha; and Toyoda Jidoshokki Seisakusho. Swash plate type compressor shoe. 4,683,804, 8-4-87, Cl. 92-71.000.

Futamura, Shoji: *See—*
- Ozaki, Sei; and Futamura, Shoji, 4,653,996, Cl. 425-461.000.
- Ozaki, Sei; Futamura, Shoji; Kojima, Masaru; and Inoue, Satoru, 4,687,433, Cl. 425-464.000.
- Ozaki, Sei; and Futamura, Shoji, 4,707,904, Cl. 29-445.000.
- Yoda, Yasutada; Sueyasu, Seisuke; and Futamura, Shoji, 4,708,609, Cl. 425-28.00D.

Futatsuka, Rensei; Kumagai, Seiji; and Izumida, Masuhiro, to Mitsubishi Shindoh Co., Ltd. Copper alloy lead material for leads of a semiconductor device. 4,668,471, 5-26-87, Cl. 420-477.000.

Futatsumori, Koji: *See—*
- Itoh, Kunio; Shiobara, Toshio; Futatsumori, Koji; Tomiyoshi, Kazutoshi; and Shimizu, Hisashi, 4,701,482, Cl. 523-435.000.

Futatsuya, Fumio: *See—*
- Yanagi, Mikio; Kawada, Shuji; Futatsuya, Fumio; and Kobayashi, Kenji, 4,666,507, Cl. 71-92.000.

Futch, Laurence E., Jr.: *See—*
- Hayes, Michael E.; Hrebenar, Kevin R.; Murphy, Patricia L.; Futch, Laurence E., Jr.; Deal, James F., III; and Bolden, Paul L., Jr., 4,684,372, Cl. 44-51.000.

Futcher, Ralph J., to Valmet-Dominion Inc. Drier felting arrangement. 4,677,762, 7-7-87, Cl. 34-114.000.

Futsuhara, Koichi, to Nippon Signal Co., Ltd., The. Failsafe monitoring system with input controlled switch circuits. 4,661,880, 4-28-87, Cl. 361-93.000.

Futsuhara, Koichi, to Nippon Signal Co., Ltd., The. Apparatus for counting enumeration input pulses. 4,667,184, 5-19-87, Cl. 340-507.000.

Futsuhara, Yoshio, to Tokyo Juki Industrial Co., Ltd. Automatic sewing machine. 4,649,837, 3-17-87, Cl. 112-121.120.

Futterer, Eberhard: *See—*
- Dittmar, Walter; Futterer, Eberhard; and Lohaus, Gerhard, 4,711,775, Cl. 424-70.000.

Futterknecht, Fritz: *See—*
- Nebelung, Hermann H.; Huber, Robert; and Futterknecht, Fritz, 4,637,827, Cl. 65-235.000.
- Nebelung, Hermann H.; and Futterknecht, Fritz, 4,659,358, Cl. 65-360.000.

Futterknecht, Kuno: *See—*
- Neumann-Henneberg, Wolf; Futterknecht, Kuno; Stengel, Gerhard; Haag, Emil; and Schutzbach, Bernd, 4,653,179, Cl. 29-622.000.

Futura Nova B.V.: *See—*
- Kist, Joost, 4,700,713, Cl. 128-756.000.

Future Apparatus Corporation: *See—*
- Gaudet, Ronald F., 4,674,724, Cl. 248-459.000.

Future Fire Suppression, Inc.: *See—*
- Jessick, James, 4,709,763, Cl. 169-26.000.

Futurecraft Corporation: *See—*
- Piet, Meyer, 4,664,151, Cl. 137-625.660.

Fuwa, Toru: *See—*
- Miyoshi, Kenichi; and Fuwa, Toru, 4,667,025, Cl. 536-27.000.

Fux, Kamil; and Gresa, Ludwig. Process for removing solids from a filtering device for the separation of liquids and solids. 4,702,847, 10-27-87, Cl. 210-798.000.

Fux, Vladimir S.: *See—*
- Maximov, Gennady K.; Brusnikin, Arkady F.; Belonosov, Vladimir I.; Popova, Roza A.; Fux, Vladimir S.; Kagan, Vladimir M.; Uralskaya, Silvia L.; and Orlova, Nadezhda P., 4,702,069, Cl. 57-417.000.

Fuyuki, Akira: *See—*
- Murai, Masayoshi; and Fuyuki, Akira, 4,644,635, Cl. 29-568.000.

Fuzesi, Stephen; and Brown, Robert W., to Olin Corporation. Oxazolidone-modified isocyanurate foams and a composition and method for their production. 4,699,931, 10-13-87, Cl. 521-117.000.

Fuzesi, Stephen; and Clarke, Gail H., to Olin Corporation. Halogenated-hydrocarbon blown, open-cell, polyurethane foam and a composition and method for the fabrication thereof. 4,699,932, 10-13-87, Cl. 521-129.000.

Fuzimura, Yasuyuki, to Kankyo Company Limited. Air cleaner. 4,693,733, 9-15-87, Cl. 55-129.000.

Fuzita, Kazuhiro; Nishizawa, Kazunori; and Imamura, Shinzi, to ASMO Co., Ltd. Bearing device of bending and stretching type windshield wiper. 4,642,838, 2-17-87, Cl. 15-250.210.

Fuziwara, Yutaka; and Yamamoto, Hiroshi, to Canon Kabushiki Kaisha. Lens mounting. 4,639,083, 1-27-87, Cl. 350-255.000.

Fuzzell, Joe E., to Caterpillar Inc. Frictionally supported gear tooth sensor with self-adjusting air gap. 4,670,715, 6-2-87, Cl. 324-208.000.

FWM Enterprises, Inc.: *See—*
- McGunnigle, Roger J., 4,715,736, Cl. 400-484.000.

FXC Corporation: *See—*
- Buehrer, Robert J.; and Gargano, William L. B., 4,678,145, Cl. 244-152.000.

Fyler, Donald C., to Charles Stark Draper Laboratory, Inc., The. Control arm assembly. 4,712,971, 12-15-87, Cl. 414-744.00R.

Fymat, Alain L.; Lee, Wai-Nang P.; and Greenfield, Moses A., to University of California, The Regents of the. Coincidence counting emission tomographic probe: method and apparatus. 4,682,604, 7-28-87, Cl. 128-659.000.

Fyrnetics, Inc.: *See—*
- Larsen, Larry D.; Yung, Richard C. S.; Leung, Wing K.; and Hogel, Joseph E., 4,691,794, Cl. 177-211.000.
- Thorne, Richard L., 4,654,772, Cl. 363-19.000.

Fyvie, Thomas J.: *See—*
- Mobley, David P.; and Fyvie, Thomas J., 4,675,377, Cl. 528-215.000.

G-A-T-M Corporation: *See—*
- Schmidt, Gunter P., 4,694,118, Cl. 174-41.000.

G.B. Boucherie, Firma: *See—*
- Boucherie, Leonel, 4,680,850, Cl. 29-426.300.
- Boucherie, Leonel, 4,688,857, Cl. 300-7.000.

G B Instruments, Inc.: *See—*
- Zue, James R.; Turk, Lance G.; and Gerrans, Alfred W., 4,688,678, Cl. 209-552.000.

G.B.R. Ltd.: *See—*
- Golicz, Roman M., 4,674,375, Cl. 83-91.000.

G & B Rubber Stamp Co., Inc.: *See—*
- Munyon, Gary D.; and Swiech, Matthew J., 4,690,053, Cl. 101-328.000.

G-C Dental Industrial Corp.: *See—*
- Kawahara, Haruyuki; Takeda, Shoji; Oshima, Hiroshi; Tomioka, Kentaro; Akahane, Shoji; Yoshii, Eiichi; and Hirota, Kazuo, 4,647,600, Cl. 523-116.000.
- Kawahara, Haruyuki; Takeda, Shoji; Oshima, Hiroshi; Tomioka, Kentaro; Akahane, Shoji; Yoshii, Eiichi; and Hirota, Kazuo, 4,652,593, Cl. 523-116.000.
- Kondo, Kenji; Katsuyama, Shigeru; Akahane, Shoji; and Tomioka, Kentaro, 4,678,436, Cl. 433-228.100.
- Kyotani, Ikuo; and Tomioka, Kentaro, 4,664,627, Cl. 433-72.000.
- Kyotani, Ikuo, 4,690,642, Cl. 433-142.000.
- Nagao, Kunihiko, 4,645,649, Cl. 422-186.300.
- Ohi, Nobukazu; Ohno, Koji; and Tosaki, Satoshi, 4,647,311, Cl. 106-35.000.
- Sato, Atsushige; Miura, Ishi; Kumei, Yasuhiro; Okuno, Osamu; Nakano, Tsuyoshi; and Yoshida, Bunsaku, 4,702,765, Cl. 75-0.50B.
- Yoshida, Bunsaku; and Tomioka, Kentaro, 4,713,403, Cl. 523-115.000.
- Yoshida, Takaichi, 4,690,799, Cl. 420-507.000.

G&C Home & Leisure Supplies Limited: *See*—

Cheetham, Donald O., 4,700,914, Cl. 248-155.100.

G. D. Searle & Co.: *See*—

Adelstein, Gilbert W.; Moormann, Alan E.; and Yu, Stella S. T., 4,687,775, Cl. 514-300.000.

Baran, John S.; and Hanson, Gunnar J., 4,657,931, Cl. 514-616.000.

Baran, John S.; and Lowrie, Harman S., 4,707,499, Cl. 514-471.000.

Campbell, Arthur L.; Evans Radak, Suzanne; and Loots, Melanie J., 4,661,592, Cl. 544-252.000.

Chinn, Leland J., 4,694,018, Cl. 514-427.000.

Chorvat, Robert J.; Fowler, Kerry W.; and Snyder, James P., 4,704,382, Cl. 514-85.000.

Collins, Paul W.; and Gasiecki, Alan F., 4,683,328, Cl. 560-118.000.

Collins, Paul W.; and Weier, Richard M., 4,689,419, Cl. 556-437.000.

Collins, Paul W.; and Gasiecki, Alan F., 4,713,477, Cl. 560-118.000.

Desai, Bipinchandra N.; Chorvat, Robert J.; and Rorig, Kurt J., 4,639,524, Cl. 546-229.000.

Djuric, Stevan W.; Chinn, Leland J.; and Rorig, Kurt J., 4,687,864, Cl. 549-414.000.

Donald, David K.; Hann, Michael M.; Saunders, John; and Wadsworth, Harry J., 4,681,966, Cl. 558-255.000.

Ellames, George J.; and Jaxa-Chamiec, Albert A., 4,696,928, Cl. 514-250.000.

Fellner, Peter J.; Lai, Mun F.; and Patel, Thakorbhai P., 4,636,518, Cl. 514-397.000.

Fowler, Kerry W.; and Chorvat, Robert J., 4,680,295, Cl. 514-258.000.

Liang, Chi-Dean, 4,681,970, Cl. 558-408.000.

Lowrie, Harman S.; and Baran, John S., 4,645,858, Cl. 562-582.000.

Manley, Paul W., 4,708,958, Cl. 514-274.000.

Masateru, Miyano; and Shone, Robert L., 4,644,071, Cl. 549-417.000.

Masateru, Miyano; and Shone, Robert L., 4,705,871, Cl. 549-417.000.

Miyano, Masateru; Shone, Robert L.; and Sohn, Daniel D., 4,665,203, Cl. 549-402.000.

Miyano, Masateru; and Deason, James R., 4,683,241, Cl. 514-512.000.

Mueller, Richard A.; and Partis, Richard A., 4,649,147, Cl. 514-315.000.

Mueller, Richard A.; Partis, Richard A.; and Deason, James R., 4,663,333, Cl. 514-346.000.

Mueller, Richard A., 4,681,939, Cl. 540-547.000.

Mueller, Richard A.; and Partis, Richard A., 4,692,552, Cl. 562-475.000.

Mueller, Richard A., 4,704,386, Cl. 514-211.000.

Mueller, Richard A.; Partis, Richard A.; and Deason, James R., 4,711,903, Cl. 514-381.000.

Myers, Peter L.; and Floyd, Chris D., 4,661,602, Cl. 548-336.000.

Nysted, Leonard N.; and Pappo, Raphael, 4,670,569, Cl. 549-465.000.

Partis, Richard A.; and Mueller, Richard A., 4,649,157, Cl. 514-545.000.

Rorig, Kurt J.; Liang, Chi-Dean, and Hamilton, Robert W., 4,650,874, Cl. 546-236.000.

G.D. Societa per Azioni: *See*—

Dall'Osso, Gastone, 4,693,374, Cl. 209-535.000.

Mattei, Riccardo; Neri, Armando; Gobbi, Santo R.; and Cantello, Maichi, 4,633,891, Cl. 131-281.000.

Mattei, Riccardo, 4,640,656, Cl. 414-303.000.

Mattei, Riccardo; and Neri, Armando, 4,647,752, Cl. 219-121.0LL.

Mattei, Riccardo, 4,648,409, Cl. 131-60.000.

Mattei, Riccardo, 4,653,516, Cl. 131-284.000.

Mattei, Riccardo; and Minarelli, Alessandro, 4,655,871, Cl. 156-484.000.

Mattei, Riccardo; Neri, Armando; Gobbi, Santo R.; and Cantello, Maichi, 4,660,578, Cl. 131-281.000.

Mattei, Riccardo; and Dall'Osso, Gastone, 4,667,831, Cl. 209-535.000.

Mattei, Riccardo; and Minarelli, Alessandro, 4,675,069, Cl. 156-510.000.

Mattei, Riccardo; and Dall'Osso, Gastone, 4,676,360, Cl. 198-377.000.

Mattei, Riccardo; Gorrieri, Giordano; and Filippini, Gualtiero, 4,693,051, Cl. 53-148.000.

Mattei, Riccardo; and Dall'Osso, Gastone, 4,693,359, Cl. 198-474.100.

Mattei, Riccardo; and Brizzi, Marco, 4,700,825, Cl. 198-419.000.

Mattei, Riccardo; and Minarelli, Alessandro, 4,710,257, Cl. 156-578.000.

Mattei, Riccardo, 4,711,336, Cl. 198-347.000.

Neri, Armando, 4,641,024, Cl. 250-223.00R.

Neri, Armando, 4,688,583, Cl. 131-84.200.

Neri, Armando, 4,700,121, Cl. 320-2.000.

Seragnoli, Enzo, 4,645,063, Cl. 198-450.000.

Seragnoli, Enzo, 4,646,758, Cl. 131-84.300.

Seragnoli, Enzo; and Gamberini, Antonio, 4,688,442, Cl. 74-426.000.

G. Dusterloh GmbH: *See*—

Klie, Juergen; and Weiss, Hans-Wilhelm, 4,679,533, Cl. 123-179.00F.

Klie, Jurgen; and Beyer, Rudolf, 4,690,038, Cl. 92-181.00R.

Klie, Jurgen; and Weiss, Hans-Wilhelm, 4,699,095, Cl. 123-179.00F.

G Enterprises Limited: *See*—

Roberts, Peter; and Chung, Sydney, 4,673,058, Cl. 181-266.000.

G & F Precision, Inc.: *See*—

Buechele, Juergen W.; and Fisher, Guenter, 4,693,2 144-87.000.

G.F. S.r.l.: *See*—

Gaita, Giorgio, 4,667,925, Cl. 251-149.100.

Gaita, Giorgio, 4,681,350, Cl. 285-315.000.

Gaiti, Giorgio; and Ferrari, Loris, 4,679,270, Cl. 15-29.000.

G. General Electro-Components, Inc.: *See*—

Bas[illegible] Arthur L., 4,677,408, Cl. 335-255.000.

G & H Technology, Inc.: *See*—

Burns, Edgar, 4,707,044, Cl. 439-289.000.

Hager, Jeffrey J., 4,702,543, Cl. 439-271.000.

McCormick, Larry L., 4,703,986, Cl. 439-607.000.

G. Miller Machine Co., Inc.: *See*—

Purdy, George W., 4,645,373, Cl. 403-341.000.

G.O.R. Applicazioni Speciali S.p.A.: *See*—

Cesano, Franco, 4,692,108, Cl. 425-292.000.

G.O. Stumpf GmbH & Co. KG: *See*—

Henne, Herbert, 4,699,036, Cl. 83-847.000.

G. R. Block Research and Development Corporation: *See*—

Kindylides, Stavros, 4,633,630, Cl. 52-204.000.

G. R. Potts Associates, Inc.: *See*—

Potts, Gerald R.; and Ryder, John C., 4,691,564, Cl. 73-146.00

G S I Holdings (Proprietary) Limited: *See*—

Elston, Thomas P., 4,678,125, Cl. 239-589.100.

G. Siempelkamp GmbH & Co.: *See*—

Bottger, Friedrich; and Gerhardt, Klaus, 4,645,632, C 264-120.000.

Bottger, Friedrich; and Gerhardt, Klaus, 4,647,417, C 264-120.000.

Thelen, Werner, 4,681,523, Cl. 425-168.000.

Thelen, Werner, 4,693,860, Cl. 264-320.000.

Walter, Karl, 4,684,489, Cl. 264-101.000.

G.T. Products, Inc.: *See*—

Bergsma, Rudolph, 4,646,772, Cl. 137-39.000.

G & W Electric Company: *See*—

Patel, Janak R.; and Schaffer, John S., 4,636,594, Cl. 200-15.00

G. W. Lisk Company, Inc.: *See*—

Garcia, Gary L., 4,662,605, Cl. 251-129.080.

G. W. Sprinkler A/S: *See*—

Jacobsen, Allan, 4,657,085, Cl. 169-43.000.

GA Technologies Inc.: *See*—

Bass, John C.; and Elsner, Norbert B., 4,639,542, Cl. 136-210.00

Bourque, Robert F., 4,696,781, Cl. 376-136.000.

Burnett, Sibley C.; Purcell, John R.; and Horner, M. Harla 4,694,269, Cl. 335-216.000.

Carlstrom, Thomas N., 4,663,108, Cl. 376-136.000.

Chan, Vincent S.; Chiu, Shiu-Chu; and Ohkawa, Tihiro, 4,688,2 Cl. 372-2.000.

Chen, Wilkie Y.; Hsu, Yen-Hwa L.; and Purcell, John R., 4,658,2 Cl. 335-216.000.

Cheng, Edward T., 4,663,110, Cl. 376-146.000.

Creedon, Richard L., 4,641,567, Cl. 89-8.000.

Creedon, Richard L., 4,681,015, Cl. 89-8.000.

Creedon, Richard L., 4,681,016, Cl. 89-8.000.

Creedon, Richard L., 4,693,281, Cl. 138-174.000.

D'Aoust, James R., 4,654,182, Cl. 376-136.000.

Hsu, Jang-Yu, 4,679,197, Cl. 372-2.000.

Lindgren, James R.; Thurgood, Brian E.; and Wattier, James B 4,703,885, Cl. 228-263.150.

McQuillan, Barry W.; and Norman, John H., 4,663,144, Cl. 42 648.00R.

Ohkawa, Tihiro; and Woolf, Lawrence D., 4,665,412, Cl. 357-6.00

Sarwinski, Raymond E.; Purcell, John R.; Parker, Judson W.; and Burnett, Sibley C., 4,680,936, Cl. 62-45.000.

West, William P.; and Muller, Clifford H., III, 4,701,616, C 250-251.000.

West, William P., 4,703,228, Cl. 315-149.000.

Woolf, Lawrence D.; and Purcell, John R., 4,647,888, C 335-216.000.

Woolf, Lawrence D., 4,648,271, Cl. 73-204.000.

Yampolsky, Jack S.; and Carosella, David P. E., Jr., 4,660,632, C 165-160.000.

Gaa, Peter C.; Hedden, Jerry C.; and Raghupathi, Narasimhan, to PPG Industries, Inc. Treated glass fibers and aqueous dispersion and nonwoven mat of the glass fibers. 4,681,802, 7-21-87, Cl. 428-288.00

Gaa, Roland; and Kinzel, Richard, to Motoren-Werke Mannhei Aktiengesellschaft. Injection system for a diesel engine with a high pressure injection pump for each cylinder. 4,708,116, 11-24-87, C 123-506.000.

Gaal, Gyorgyi: *See*—

Baviere, Marc; Moulu, Jean-Claude; Paal, Tibor; Tiszai, Gyorgy; Gaal, Gyorgyi; Schmidt, Laszlo; and Gesztesi, Gyula, 4,648,451 Cl. 166-273.000.

Gaal, Peter S. Probe for measuring deviations from linearity. 4,651,436 3-24-87, Cl. 33-533.000.

Gaal, Sandor: *See*—

Balint, Sandor; Benczik nee Pasztor, Judit; Fodor, Jozsef; Horvath Andras; Tomordi, Elemer; Soptei, Csaba; Karsai, Jozsef; Sebestyen, Endre; Gaal, Sandor; Gardi, Ivan; Kiss, Gyorgy; Papp Andrass; and Csatlos, Imre, 4,668,274, Cl. 71-86.000.

Gorog nee Privitzer, Katalin; Bodnar, Laszlo; Dudar, Erzsebet Kocsis nee Bagi, Maria; Gaal, Sandor; Tasnadi, Marta; Egyhazi nee Csizmadia, Eva; Varga, Valeria M.; Kajati, Istvan; Kis Gyorgy; Molnar, Janos; Toth, Bertalan; Cserhati nee Botka

Ilona, Kaptas, Tibor, and Csete, Sandor, 4,661,477, Cl. 514-76.000.

Gorog nee Privitzer, Katalin; Bodnar, Laszlo; Dudar, Erzsebet; Kocsis nee Bagi, Maria; Gaal, Sandor; Tasnadi, Marta; Egyhazi nee Csizmadia, Eva; Varga, Valeria M.; Kajati, Istvan; Kis, Gyorgy; Molnar, Janos; Toth, Bertalan; Cserhati nee Botka, Ilona; Kaptas, Tibor; and Csete, Sandor, 4,675,431, Cl. 558-218.000.

Gaaseidnes, Knut: *See—*

Johnsen, Hans K.; and Gaaseiunes, Knut, 4,650,520, Cl. 106-90.000.

Gaastra Sails International Limited: *See—*

Magnan, Jeffrey J., 4,686,921, Cl. 114-102.000.

Magnan, Jeffrey J., 4,708,079, Cl. 114-103.000.

Gaba, Rodolfo, to Iolab Corporation. Intraocular lens insertion guide. 4,643,185, 2-17-87, Cl. 128-303.00R.

Gaba, Rodolfo, to Iolab Corporation. Method of using an intraocular lens insertion guide. 4,657,011, 4-14-87, Cl. 128-303.00R.

Gabano, Jean-Paul; Broussely, Michel; Pereira-Ramos, Jean-Pierre; Messina, Richard; and Perichon, Jacques, to Saft, S.A. Electrochemical cell having a non-aqueous electrolyte. 4,690,877, 9-1-87, Cl. 429-194.000.

Gabard, Jean-Jacques, to Commissariat a l'Energie Atomique. Shoulder prosthesis. 4,693,723, 9-15-87, Cl. 623-19.000.

Gabarro, Jose A. P.: *See—*

Arechaga, Sabastian J.; Granell, Jose O. O.; Linan, Carmen S.; Vallejo, Alfonso P.; and Gabarro, Jose A. F., 4,690,945, Cl. 514-448.000.

Gabb Corporation: *See—*

Gentry, Gene F.; and Bain, John H., Jr., 4,673,934, Cl. 342-8.000.

Gabbay, Emile: *See—*

Plessis, Andre; and Gabbay, Emile, 4,675,890, Cl. 378-121.000.

Gabbay, Robert J.: *See—*

Foxworthy, Neal E.; Clark, William S., Jr.; Schossow, Stephen R.; and Gabbay, Robert J., 4,672,613, Cl. 371-38.000.

Gabbay, Shlomo. Contraceptive device. 4,703,752, 11-3-87, Cl. 128-131.000.

Gabbert, James D.; Garner, Albert Y.; and Hedrick, Ross M., to DSM Rim Nylon VOF. Acyllactam functional materials. 4,645,800, 2-24-87, Cl. 525-340.000.

Gabbert, James D.; Garner, Albert Y.; and Hedrick, Ross M., to DM Rim Nylon Vof. Process for the preparation of nylon block polymers. 4,649,177, 3-10-87, Cl. 525-408.000.

Gabbert, James D.: *See—*

Garner, Albert Y.; Gabbert, James D.; and Hedrick, Ross M., 4,696,977, Cl. 525-184.000.

Gabe, Julian; and Makepeace, Richard J., to Agan Chemical Manufacturers Ltd. Method for combatting blackgrass in cereal crops and compositions therefor. 4,640,705, 2-3-87, Cl. 71-93.000.

Gabel, Edward R.: *See—*

Nabson, Richard C.; Howes, Ronald B., Jr.; Carney, Glenn R.; Gabel, Edward R.; Schmidt, Robert H.; Gerlach, Leroy E.; and Polad, Michael D., 4,688,785, Cl. 271-266.000.

Gabel, Jonathan B., to Becton, Dickinson and Company. Catheter assembly with air purging feature. 4,714,461, 12-22-87, Cl. 604-53.000.

Gabelli, Antonio, to SKF Industrial Trading and Development Company B.V. Test device for producing a biaxial state of tension. 4,677,854, 7-7-87, Cl. 73-794.000.

Gabelli, Antonio; and Zwarts, Jacobus, to SKF Industrial Trading & Development Company, B.V. Means for measuring a radial force. 4,703,662, 11-3-87, Cl. 73-862.540.

Gaber, Klaus: *See—*

Schiller, Siegfried; Panzer, Siegfried; and Gaber, Klaus, 4,633,611, Cl. 47-1.300.

Gabetta, Bruno: *See—*

Bombardelli, Ezio; Gabetta, Bruno; and Magistretti, Maria J., 4,636,569, Cl. 549-403.000.

Bombardelli, Ezio; Gabetta, Bruno; and Conti, Marisa, 4,709,076, Cl. 560-55.000.

Gabillard, Bertrand, to U.S. Philips Corporation. Decoder circuit for a static random access memory. 4,644,189, 2-17-87, Cl. 307-449.000.

Gabillet, Jean-Francois, to Jeumont-Schneider Corporation. Interface for connecting a computer system to an activator module. 4,649,469, 3-10-87, Cl. 364-130.000.

Gabler, Dieter: *See—*

Bartko, Kristine; Gabler, Dieter; Heinrich, Peter; Luckner, Joachim; and Schlenkrich, Bernd, 4,672,833, Cl. 72-111.000.

Gabor, Andrew; and Dunfield, John C., to Xerox Corporation. Quiet impact printer. 4,668,112, 5-26-87, Cl. 400-157.300.

Gabor, Andrew; Dunfield, John C.; Bowers, George W., Jr., and Crystal, Richard G., to Xerox Corporation. Print tip contact sensor for quiet impact printer. 4,678,355, 7-7-87, Cl. 400-389.000.

Gabor, Andrew, to Xerox Corporation. Quiet impact printer. 4,681,469, 7-21-87, Cl. 400-157.200.

Gabor, Andrew: *See—*

Crystal, Richard G.; and Gabor, Andrew, 4,686,900, Cl. 101-93.480.

Gabori, Andor: *See—*

Nagy, Istvan; Nagy, Ferenc; Pozsgai, Istvan; Karatson, Laszlo; Gabori, Andor; Toth, Kalman; and Zubretzky, Jeno, 4,691,485, Cl. 52-125.100.

Gabriel, Alexander, to Nordson Corporation. Adjustable powder spray nozzle. 4,638,951, 1-27-87, Cl. 239-707.000.

Gabriel, Charles M.: *See—*

Burkum, Merlin E.; and Gabriel, Charles M., 4,697,134, Cl. 320-48.000.

Gabriel, Edwin Z. Hoist cable coupling device (for suspended loads). 4,647,095, 3-3-87, Cl. 294-82.240.

Gabriel, Edwin Z. Shovel-like coupling devices with automatic material handling features. 4,678,220, 7-7-87, Cl. 294-118.000.

Gabriel, Janice Y.; and Spector, George. Transparent crib bumper pads. 4,670,923, 6-9-87, Cl. 5-424.000.

Gabriel, Kaigham J.; Trimmer, William S. N.; and Walker, James A., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Shape memory alloy actuator. 4,700,541, 10-20-87, Cl. 60-528.000.

Gabriel, Kaigham J.: *See—*

Ekchian, Jack A.; Hoffman, Robert W.; Ekchian, Leon; and Gabriel, Kaigham J., 4,673,932, Cl. 340-825.540.

Gabriel, Karel; Smolik, Frantisek; Steif, Eduard; and Sabek, Vaclav, to Skoda, koncernovy podnik. Acoustic piezoelectric power transducer. 4,652,785, 3-24-87, Cl. 310-325.000.

Gabriel, Klaus-Dieter: *See—*

Brudereck, Ulrich; and Gabriel, Klaus-Dieter, 4,702,175, Cl. 105-154.000.

Gabriel, Leon. Coin operated vending machine for dispensing single copies of a newspaper. 4,655,369, 4-7-87, Cl. 221-213.000.

Gabriel, Nancy J. S.; Yuan, Han-Tzong; and Tiku, Shiban K., to Texas Instruments Incorporated. Planar heterojunction bipolar device and method. 4,672,414, 6-9-87, Cl. 357-34.000.

Gabriel, Paul K.; Potvin, David E.; and Potvin, James R., to Bijur Lubricating Corp. Lubricating system control circuit. 4,674,030, 6-16-87, Cl. 364-184.000.

Gabriel, Thomas: *See—*

Heinemann, Wilfried; Gabriel, Thomas; Reimann, Peter; Kunzi, Hans-Ulrich; and Guntherodt, Hans-Joachim, 4,650,618, Cl. 264-22.000.

Gabriele, E. Helena-Maria Siegel, heiress: *See—*

Harnisch, Horst; and Siegel, Edgar, deceased, 4,695,405, Cl. 252-600.000.

Gabriele, Joseph M.; Sam, George J., Sr.; Wolfe, John N.; and Parekh, Navinchandra J. Breast compression and needle localization apparatus. 4,691,333, 9-1-87, Cl. 378-37.000.

Gabrielidis, Pericles. Tennis racket with racket having adjustable length handle. 4,641,838, 2-10-87, Cl. 273-73.00J.

Gabrielsen, Jon T.: *See—*

Byrnes, Larry E.; and Gabrielsen, Jon T., 4,655,853, Cl. 148-16.500.

Gabrosek, Kenneth; and Spector, George. Electric blanket. 4,659,905, 4-21-87, Cl. 219-212.000.

Gabryszewski, Gregory J., to Nordson Corporation. Bulk melter platen assembly. 4,661,688, 4-28-87, Cl. 219-421.000.

Gaburo, Edward B.: *See—*

Rossi, Nicholas J.; and Gaburo, Edward B., 4,664,969, Cl. 428-284.000.

Gabus, Charles. Connection for pipes. 4,660,869, 4-28-87, Cl. 285-365.000.

Gabus, Georges A.: *See—*

Mock, Elmar; and Gabus, Georges A., 4,692,033, Cl. 368-280.000.

Gabuzda, Paul G., to Borroughs Corporation. Segmented heat sink device. 4,682,651, 7-28-87, Cl. 165-80.300.

Gabuzda, Paul G.; and Terrell, Sanford V., to Unisys Corporation. Staggered radial-fin heat sink device for integrated circuit package. 4,715,438, 12-29-87, Cl. 165-185.000.

Gac, Norman: *See—*

Debbaut, Christian A. M.; Gac, Norman; Lopez, Eugene F.; Moyer, Wendell W.; Terrell, David; and Tsou, Patrick K., 4,670,069, Cl. 156-48.000.

Gach, Paul. Glass scoring assembly. 4,672,874, 6-16-87, Cl. 83-881.000.

Gach, Paul: *See—*

Hull, A. Katherine, 4,690,852, Cl. 428-156.000.

Gach, Peter P., to Sunbeam Plastics Corporation. Tamper indicating band for threaded cap. 4,643,321, 2-17-87, Cl. 215-252.000.

Gach, Peter P., to Sunbeam Plastics Corporation. Tamper indicating dispensing closure (for edible oils). 4,651,885, 3-24-87, Cl. 215-250.000.

Gach, Peter P., to Sunbeam Plastics Corporation. Tamper indicating closure. 4,682,702, 7-28-87, Cl. 215-232.000.

Gach, Peter P., to Sunbeam Plastics Corporation. Adjustable dispensing closure. 4,699,299, 10-13-87, Cl. 222-480.000.

Gach, Peter P., to Sunbeam Plastics Corporation. Tamper indicating closure. 4,711,372, 12-8-87, Cl. 222-23.000.

Gachet, Laurent: *See—*

Detriche, Jean-Marie; Houche, Didier; and Gachet, Laurent, 4,651,093, Cl. 324-232.000.

Gachot, Jean. Method for the manufacture of a piston. 4,658,487, 4-21-87, Cl. 29-156.50R.

Gacsay, Lorant, to Sulzer Brothers Limited. Projectile weaving machine. 4,640,315, 2-3-87, Cl. 139-1.00C.

Gacsay, Lorant: *See—*

Jankovsky, Frantisek; and Gacsay, Lorant, 4,653,547, Cl. 139-439.000.

Wenig, Ernst; Gacsay, Lorant; and Lincke, Paul, 4,649,965, Cl. 139-439.000.

Gad-el-Hak, Mohamed: *See—*

Blackwelder, Ron F.; Gad-el-Hak, Mohamed; and Srnsky, Randy A., 4,697,769, Cl. 244-199.000.

Gadde, Villy, to Safe Bridge AB. Barrier arrangement and a method for producing the same. 4,688,024, 8-18-87, Cl. 340-550.000.

Gaddi, Bruno, to Piaggio & C. S.p.A. Device for controlling the regulation in an automatic transmission. 4,637,277, 1-20-87, Cl. 74-865.000.

Gaddis, Raymond W.: *See—*

Kellett, James H.; Gaddis, Raymond W.; Fritts, Robert W.; and Schoenecker, David L., 4,693,949, Cl. 429-178.000.

Gaddy, James L.; and Clausen, Edgar C. Method of recovering hydrochloric acid from a product comprised of sugars and concentrated hydrochloric acid. 4,645,658, 2-24-87, Cl. 423-488.000.

Gadefelt, Bengt; and Saaf, Lars, to Saab-Scania Altoebolag. Cylinder head for an internal combustion engine. 4,706,623, 11-17-87, Cl. 123-308.000.

Gadefelt, Bengt G.; and Bergsten, Lars E., to Saab-Scania Aktiebolag. Arrangement for hydraulic pressure feed in internal combustion engines. 4,672,926, 6-16-87, Cl. 123-90.340.

Gadelius, Gustaf. Clutch arrangement, particularly for variable speed gears. 4,635,772, 1-13-87, Cl. 192-45.200.

Gadelle, Claude; and Petit, Herve , to Institut Francais du Petrole. Method for forming a fluid barrier by means of sloping drains, more especially in an oil field. 4,705,431, 11-10-87, Cl. 405-267.000.

Gadelle, Claude: *See—*
  Burger, Jacques; Gadelle, Claude; and Salle de Chou, Jacques, 4,685,836, Cl. 405-264.000.

Gademann, Lothar; and Tschepella, Johann, to Robert Bosch GmbH. Semiconductor structure and method of its manufacture. 4,661,835, 4-28-87, Cl. 357-68.000.

Gademann, Lothar; Hirt, Adam; Michel, Hartmut; Schmid, Hans-Dieter; and Schneider, Michael, to Robert Bosch GmbH. Ignition system for internal combustion engines with a magnet generator. 4,694,814, 9-22-87, Cl. 123-644.000.

Gademann, Lothar; Mattes, Bernhard; Mausner, Eberhard; Suchowerskyj, Wadym; and Rittmannsberger, Norbert, to Robert Bosch GmbH. Trigger system for a vehicular passenger restraint system. 4,700,973, 10-20-87, Cl. 280-735.000.

Gadient, Fulvio, to Sandoz Pharmaceuticals Corp. Diazepinoindoles useful for treating depression, schizophrenia, social withdrawal or anxiety and pharmaceutical compositions containing them. 4,673,674, 6-16-87, Cl. 514-220.000.

Gadkaree, Kishor P.; Montierth, Max R.; and Taylor, Mark P., to Corning Glass Works. Cordierite ceramics containing silicon carbide whisker reinforcement. 4,673,658, 6-16-87, Cl. 501-89.000.

Gadkaree, Kishor P.; Haynes, William L.; and Lu, Kun-Er, to Corning Glass Works. Modified cordierite glass ceramic composite. 4,711,860, 12-8-87, Cl. 501-9.000.

Gadow, Andre; and Wood, W. Graham, to Henning Berlin GmbH Chemie-und Pharmawerk. Luminescence immunoassay for haptens and chemiluminescence labelled hapten conjugates. 4,645,646, 2-24-87, Cl. 422-61.000.

Gadow, Andre ; and Wood, W. Graham, to Henning Berlin GmbH. Preactivated plastics surfaces for immobilizing organo-chemical and biologic materials. 4,657,873, 4-14-87, Cl. 436-532.000.

Gadsby, Larry R.: *See—*
  Durand, Charles A.; and Gadsby, Larry R., 4,635,147, Cl. 360-93.000.
  Sanford, Platter; Gadsby, Larry R.; and Heath, Robert T., 4,646,177, Cl. 360-95.000.

Gaechter, Bernhard; Braunecker, Bernhard; and Muller, Fritz, to Wild Heerbrugg AG. Measuring device for determining relative position between two items. 4,715,714, 12-29-87, Cl. 356-375.000.

Gaedcke, Harald; Braun, Ruediger; and Bauer, Roland, to BASF Aktiengesellschaft. Preparation of a mixed-phase pigment based on iron oxide and chromium oxide. 4,643,772, 2-17-87, Cl. 106-304.000.

Gaehring, David P.: *See—*
  Bradley, Donald B.; Gaehring, David P.; and Long, Charles W., 4,650,582, Cl. 210-402.000.

Gaenzle, Todd; and Zeidler, William F., to Grumman Data Systems Corporation. Security mount. 4,655,429, 4-7-87, Cl. 248-553.000.

Gaenzler, Wolfgang: *See—*
  Asmussen, Frithjof; Gaenzler, Wolfgang; and Wunderlich, Winfried, 4,656,119, Cl. 430-327.000.
  Besecke, Siegmund; Schroeder, Guenter; Siegert, Hermann-Josef; and Gaenzler, Wolfgang, 4,647,696, Cl. 562-606.000.

Gaertner, Adolf W.: *See—*
  Wiedenhoff, Wolfgang; Gaertner, Adolf W.; Vogt, Gert; and Weisgerber, Claus, 4,682,632, Cl. 138-178.000.

Gaertner, Hubert: *See—*
  Bercovici, Daniel; Gaertner, Hubert; and Puigserver, Antoine, 4,701,328, Cl. 426-2.000.

Gaertner, Van R.: *See—*
  Pulwer, Mitchell J.; and Gaertner, Van R., 4,650,613, Cl. 260-502.50F.

Gaertner, William L., Jr.: *See—*
  Pegg, Robert J.; and Gaertner, William L., Jr., 4,649,918, Cl. 128-305.000.

Gaeta, Federico C. A.: *See—*
  Andrews, David R.; and Gaeta, Federico C. A., 4,634,698, Cl. 514-222.000.

Gaetani, Frank J.: *See—*
  Jenkins, Robert H., Jr.; Mitchell, Edward; Gaetani, Frank J.; Mahusky, John J.; and Hall, Marilyn, 4,713,087, Cl. 44-53.000.

GAF Corporation: *See—*
  Barabas, Eugene S., 4,666,992, Cl. 525-326.900.
  Barabas, Eugene S., 4,684,519, Cl. 424-80.000.
  Barabas, Eugene S., 4,684,698, Cl. 525-326.900.
  Barabas, Eugene S., 4,713,238, Cl. 424-80.000.
  Chakrabarti, Paritosh M.; Desai, Sureshchandra G.; and Wood, Lindley S., Jr., 4,694,104, Cl. 564-285.000.
  Chaudhuri, Ratan K.; Login, Robert B.; and Tracy, David J., 4,713,463, Cl. 548-517.000.
  Chuang, Jui-Chang, 4,689,379, Cl. 526-282.000.
  Lewis, David F., 4,698,296, Cl. 430-333.000.
  Lewis, David F.; and Kuszewski, James R., 4,705,741, Cl. 430-333.000.
  Lewis, David F., 4,705,742, Cl. 430-333.000.
  Liu, Kou-Chang, 4,692,551, Cl. 562-471.000.
  Moskowitz, Mark L., 4,668,598, Cl. 430-45.000.
  Moskowitz, Mark L., 4,684,688, Cl. 524-336.000.
  Seiwatz, Henry, 4,668,609, Cl. 430-296.000.
  Tracy, David J.; Login, Robert B.; and Hashem, Mohamed M., 4,698,412, Cl. 528-323.000.

Gaffal, Hans R.: *See—*
  Busselmann, Manfred H.; and Gaffal, Hans R., 4,662,424, Cl. 160-331.000.

Gaffal, Karl; and Etzold, Frank, to Klein, Schanzlin & Becker Aktiengesellschaft. Assembly for lubricating thrust bearings of machines. 4,643,593, 2-17-87, Cl. 384-371.000.

Gaffar, Abdul: *See—*
  Niles, Hollandra P.; Herles, Susan; Shymon, Stephen; and Gaffar, Abdul, 4,689,214, Cl. 424-49.000.

Gaffin, Michael A.: *See—*
  Crowley, Kevin J.; and Gaffin, Michael A., 4,662,297, Cl. 414-61.000.

Gaffney, Anne M.: *See—*
  Withers, Howard P., Jr.; Jones, C. Andrew; Leonard, John J.; Sofranko, John A.; and Gaffney, Anne M., 4,670,619, Cl. 585-500.000.

Gaffney, Bernard J., to Reaction Technology, Inc. Sonic process for converting proteinaceous raw materials in situ into semi-solid food products. 4,675,194, 6-23-87, Cl. 426-39.000.

Gaffney, Richard W.: *See—*
  Bunting, Franklin O.; and Hudson, J. Russell, 4,637,647, Cl. 296-24.00R.

Gaffney, Thomas J.: *See—*
  Curtis, H. Edward; and Gaffney, Thomas J., 4,706,815, Cl. 206-531.000.

Gaffrig, James W. Marine muffler for water-cooled internal combustion engines. 4,643,272, 2-17-87, Cl. 181-260.000.

Gage Industries, Inc.: *See—*
  Gage, Jeffrey C., 4,705,172, Cl. 206-519.000.

Gage, Jeffrey C., to Gage Industries, Inc. Lid with orientation device. 4,705,172, 11-10-87, Cl. 206-519.000.

Gagelin, Jean-Jacques: *See—*
  Allemand, Robert; Gagelin, Jean-Jacques; and Pleyber, Gaetan, 4,645,934, Cl. 250-374.000.

Gagemaker, Inc.: *See—*
  Frank, Jimmy L.; and Wolfe, John R., III, 4,700,484, Cl. 33-142.000.

Gagen, Paul F., to AT&T Bell Laboratories. Optical fiber splice and methods of making. 4,636,033, 1-13-87, Cl. 350-96.210.

Gagen, Paul F.: *See—*
  Davies, Scott T.; Gagen, Paul F.; and Hardwick, Nathan E., III, 4,662,713, Cl. 350-96.200.

Gaget, Pierre, to Charbonnages de France. Centrifugal drier drum for wet granular material. 4,682,423, 7-28-87, Cl. 34-58.000.

Gagin, William P., to American Orthodontics Corporation. Surgical ball hooks. 4,639,219, 1-27-87, Cl. 433-22.000.

Gagle Company, Inc.: *See—*
  Gagle, Duane W.; Gagle, Duane W., Jr., Gagle, Richard L.; and Gomory, Paul L., 4,678,375, Cl. 405-270.000.

Gagle, Duane W.; Gagle, Duane W., Jr.; Gagle, Richard L.; and Gomory, Paul L., to Gagle Company, Inc. Covering or liner system and method for constructing the same. 4,678,375, 7-7-87, Cl. 405-270.000.

Gagle, Duane W., Jr.: *See—*
  Gagle, Duane W.; Gagle, Duane W., Jr.; Gagle, Richard L.; and Gomory, Paul L., 4,678,375, Cl. 405-270.000.

Gagle, Richard L.: *See—*
  Gagle, Duane W.; Gagle, Duane W., Jr.; Gagle, Richard L.; and Gomory, Paul L., 4,678,375, Cl. 405-270.000.

Gagliani, John: *See—*
  Long, John V.; and Gagliani, John, 4,639,343, Cl. 264-45.500.
  Long, John V.; and Gagliani, John, 4,658,010, Cl. 528-322.000.
  Long, John V.; and Gagliani, John, 4,708,972, Cl. 521-185.000.

Gagliardi, Claudio: *See—*
  Renzi, Fiorenzo; Rivetti, Franco; Romano, Ugo; and Gagliardi, Claudio, 4,713,433, Cl. 526-314.000.

Gagliardi, Fabrizio; Bruno, Carlo M.; and Tofanelli, Adler, to SIP-Societa Italiana per l'Esercizio Telefonica p.a. Digital circuit for extracting synchronism signals from a serial flow of coded data. 4,675,885, 6-23-87, Cl. 375-110.000.

Gagliardi, Fabrizio; Lambarelli, Livio; Panarotto, Gianfranco; Roffinella, Daniele; and Sposini, Maurizio, to Cselt - Centro Studi e Laboratori Telecomunicazioni S.p.A. Reconfigurable high-speed integrated local network. 4,696,001, 9-22-87, Cl. 370-88.000.

Gagne, Claude. Fire hydrant hoist. 4,706,939, 11-17-87, Cl. 254-332.000.

Gagne, Guy: *See—*
  Moulinie, Raoul M.; and Gagne, Guy, 4,699,541, Cl. 404-69.000.

Gagnebin, Gaston: *See—*
  Aellen, Pierre-Andre ; and Gagnebin, Gaston, 4,706,857, Cl. 224-164.000.

Gagneux, Georges: *See—*
  Auzolat, Jean P.; and Gagneux, Georges, 4,677,333, Cl. 310-239.000.

Gagnieur, Andre: *See—*
  Bertocchio, Rene; Gagnieur, Andre; and Mathais, Henri, 4,647,391, Cl. 252-69.000.
  Decaudin, Robert; Gurtner, Bernard; and Gagnieur, Andre, 4,701,564, Cl. 568-639.000.

Gagnon, Anthony C., to Kulicke and Soffa Industries, Inc. Handling system for laminar objects. 4,671,835, 6-9-87, Cl. 156-160.000.

Gagnon, David P.: *See*—
  Hudson, Alan T.; Gagnon, David P.; Johns, David W., II; and Langenhein, William J., Jr., 4,673,363, Cl. 441-1.000.

Gagnon, Peter R.; Griffin, Robert M.; and Kimball, Stephen F., to GTE Products Corporation. Tungsten-halogen electric lamp with permeable means closing an outer envelope. 4,687,963, 8-18-87, Cl. 313-17.000.

Gagnon, Peter R.: *See*—
  Blaisdell, Ronald G.; and Gagnon, Peter R., 4,647,809, Cl. 313-25.000.
  English, George J.; Gagnon, Peter R.; and Leadvaro, Stephen J., 4,668,204, Cl. 445-26.000.

Gagnon, Ralph J., to Hughes Aircraft Company. Optical system for three color liquid crystal light valve image projection system. 4,715,684, 12-29-87, Cl. 350-331.00R.

Gagnon, Richard: *See*—
  Boulay, Russell; Drouin, Bernard; and Gagnon, Richard, 4,654,529, Cl. 250-341.000.

Gago, Ignace; and Detroz, Rene, to Solvay & Cie (Societe Anonyme). Compositions containing biosynthetic pesticidal products and at least one phosphate, processes for their preparation and their use. 4,661,351, 4-28-87, Cl. 424-93.000.

Gago, Ignace; and Berwart, Emile, to Solvay & Cie (Societe Anonyme). Coating device. 4,703,713, 11-3-87, Cl. 118-19.000.

Gahagan, Dean A.; and Ogami, Kenneth Y., to Boeing Company, The. Suppressed clock pulse-duration modulator for direct sequence spread spectrum transmission systems. 4,669,089, 5-26-37, Cl. 375-1.000.

Gahlau, Heinemann; Wittenmayer, Klaus; Laubner, Manfred; and Baumeister, Herbert, to Dr. Alois Stankiewicz GmbH. Motor vehicle noise insulation. 4,655,496, 4-7-87, Cl. 296-39.00A.

Gahlau, Heinemann; Hoffmann, Manfred; and Seemann, Norbert, to Dr. Alois Stankiewicz GmbH. Sound insulation part for surfaces. 4,705,139, 11-10-87, Cl. 181-290.000.

Gahlau, Heinemann: *See*—
  Blumel, Ehrenfried; Gahlau, Heinemann; Hoffmann, Manfred; Wittenmayer, Klaus; Stankiewicz, Thomas; and Kittel, Christoph, 4,663,381, Cl. 524-426.000.

Gahrs, Hans J., to Messer Griesheim GmbH. Procedure for segregation of mixture of substances containing organic components. 4,714,617, 12-22-87, Cl. 426-427.000.

Gahura, Andrew: *See*—
  Sundberg, Jack G.; and Gahura, Andrew, 4,669,735, Cl. 277-1.000.

Gaia, Aldino J., to Cooper Industries, Inc. Time lag electrical fuse. 4,703,300, 10-27-87, Cl. 337-164.000.

Gaiaktionov, Viktor A.: *See*—
  Vinogradov, Alexei V.; Makarova, Inna I.; Alexandrov, Jury N.; Gaiaktionov, Viktor A.; and Ozersky, Jury P., 4,651,748, Cl. 128-680.000.

Gaiao, Ubirajara: *See*—
  Silva, Julio C.; Gaiao, Ubirajara; and Novicki, Rubens E. M., 4,707,248, Cl. 208-409.000.

Gaibotti, Maurizio: *See*—
  Rosini, Paolo; Finaurini, Roberto; and Gaibotti, Maurizio, 4,638,465, Cl. 365-228.000.

aida, Wolfram: *See*—
  Schnorrenberg, Gerd; Roos, Otto; Losel, Walter; Wiedemann, Ingrid; Gaida, Wolfram; and Hoefke, Wolfgang, 4,683,238, Cl. 514-292.000.

ugl, Dietmar; and Amann, Klaus, to Dr. Ing. h.c.F. Porsche Aktiengesellschaft. Antifogging device for a display glass of an indicating instrument. 4,709,134, 11-24-87, Cl. 219-201.000.

ugl, Karl J., to Fahr-Bucher GmbH. Gear for transforming rotary notion to reciprocatory motion. 4,712,437, 12-15-87, Cl. 74-50.000.

ikema, Gjalt M.; and Zylstra, Dirk, to Wavin B.V. Process for the ackaging of products, using a heat treatment, and closed container vith packed products, obtained using a heat treatment. 4,689,936, -1-87, Cl. 53-440.000.

ley, Edward D.: *See*—
  Hall, William E.; Gailey, Edward D.; and Ovanin, George J., 4,685,687, Cl. 279-119.000.

liunas, Ernest A. Ski pole hand grip. 4,641,857, 2-10-87, Cl. 0-821.000.

n, Lorand H., Jr., to AMSTED Industries Incorporated. Support r underground valve indicator. 4,653,531, 3-31-87, Cl. 137-356.000.

n, Lorand H., Jr.: *See*—
  Ballun, John V.; and Gain, Lorand H., Jr., 4,702,275, Cl. 137-556.000.
  Sharp, Steve M.; Holstrom, John R.; Gain, Lorand H., Jr.; and Ballun, John V., 4,708,160, Cl. 137-368.000.

, Robert; Simon, Jacques; Pasturel, Andre; and Roger, Marc, to mmissariat a l'Energie Atomique; and L'Etat Francais. Process for ducing an artificial cranium and a prosthetic head. 4,708,836, 24-87, Cl. 264-40.100.

r, James; and Goschke, Richard, to Ciba-Geigy Corporation. yl substituted pyridazinones and pharmaceutical compositions. 9,908, 10-13-87, Cl. 514-234.000.

s, Bernard S., to Trine Products Corp. Electrical connection aratus for lighting fixtures. 4,648,675, 3-10-87, Cl. 339-97.00P.

s, Jack R.: *See*—
  indvig, Robert L.; Klemm, William A.; Gaines, Jack R.; and Looyenga, Robert W., 4,664,832, Cl. 252-70.000.

Gaines, Michael G.: *See*—
  Bethell, Michael R.; Gaines, Michael G.; Mowat, James F., Jr.; Wheeler, Roger D.; and Woidke, Richard P., 4,712,353, Cl. 53-80.000.

Gaines Pet Foods Corp.: *See*—
  Tonyes, Henry J.; Keehn, William T.; German, Harold W.; and Hill, Brian S., 4,713,250, Cl. 426-2.000.

Gainesville 1920 Corporation, The: *See*—
  Freeman, Richard B., 4,680,117, Cl. 210-469.000.

Gainsley, James D.; Vikre, David M.; Larsen, Jack E.; Hursh, William F.; and Carlson, David L., to Renco Corporation. Housing for ultrasonic detector. 4,671,289, 6-9-87, Cl. 128-660.000.

Gaisch, Helmut; and Nyffeler, Urs, to Fabriques De Tabac Reunies S.A. Process for improving tobacco. 4,709,710, 12-1-87, Cl. 131-308.000.

Gaiser, Dieter: *See*—
  Schoettle, Klaus; Buhk, Artur; Kamm, Eugen; Berger, Heinz; and Gaiser, Dieter, 4,687,157, Cl. 242-199.000.

Gaiser, Hans. Sidepiece end of a spectacle frame sidepiece. 4,639,104, 1-27-87, Cl. 351-117.000.

Gaiser, John A.: *See*—
  Easton, Trevor A.; and Gaiser, John A., 4,693,185, Cl. 105-199.200.

Gaiser, Robert F.: *See*—
  Myers, Lawrence R.; Bach, Lloyd G.; and Gaiser, Robert F., 4,679,864, Cl. 303-6.00C.
  Myers, Lawrence R.; and Gaiser, Robert F., 4,685,299, Cl. 60-547.100.
  Runkle, Dean E.; and Gaiser, Robert F., 4,652,058, Cl. 303-6.00C.

Gaita, Giorgio, to G.F. S.r.l. Quick coupling hose connection with double acting backflow preventing valve. 4,667,925, 5-26-87, Cl. 251-149.100.

Gaita, Giorgio, to G.F. S.r.l. Quick coupling connection for hoses. 4,681,350, 7-21-87, Cl. 285-315.000.

Gaitan, Laurentiu Vatafu: *See*—
  Tanasescu, Florin T.; Gaitan, Laurentiu Vatafu; and Stefanescu, Dumitru, 4,658,742, Cl. 112-275.000.

Gaiti, Giorgio; and Ferrari, Loris, to G.F. S.r.l. Wash brush operated by the wash water. 4,679,270, 7-14-87, Cl. 15-29.000.

Gajary, Antal: *See*—
  Szekely, Istvan; Botar, Sandor; Dolgos nee Kekesi, Krisztina; Bertok, Bela; Gajary, Antal; Szabolcsi, Tamas; Kovacs, Gabor; and Lovasz nee Gaspar, Marianna, 4,638,002, Cl. 514-212.000.

Gajewski, Joseph. Simple bike. 4,653,767, 3-31-87, Cl. 280-278.000.

Gajjar, Bharat J., to Du Pont de Nemours, E. I., and Company. Layered warp knits. 4,638,648, 1-27-87, Cl. 66-193.000.

Gajjar, Bharat J., to Du Pont de Nemours, E. I., and Company. Open warp knit fabric. 4,649,722, 3-17-87, Cl. 66-195.000.

Gajjar, Bharat J., to Du Pont de Nemours, E. I., and Company. Method of warp knitting. 4,688,403, 8-25-87, Cl. 66-195.000.

Gajjar, Jagdish T., to General Electric Company. Apparatus and method for decoding error correction coded information. 4,648,091, 3-3-87, Cl. 371-37.000.

Gajjar, Jagdish T.: *See*—
  Stutt, Charles A.; and Gajjar, Jagdish T., 4,701,939, Cl. 375-115.000.

Gajowski, Jan; Regel, Erik; Buchel, Karl H.; Brandes, Wilhelm; and Reinecke, Paul, to Bayer Aktiengesellschaft. (1,2,4-triazol-1-yl)-2-thiazol-2-yl ethanol as fungicides. 4,657,920, 4-14-87, Cl. 514-365.000.

Gajria, Chandrasen, to Gillette Company, The. Shock resistant ink compositions and writing instruments including the compositions. 4,686,246, 8-11-87, Cl. 523-161.000.

Gajria, Chandrasen: *See*—
  Case, Laura K.; Gajria, Chandrasen; Loftin, Rachel M.; and Peper, Henry, 4,671,691, Cl. 401-142.000.

Gaku, Morio; Ikeguchi, Nobuyuki; and Kimbara, Hidenori, to Mitsubishi Gas Chemical Company, Inc. Adhesive composition and adhesive film or sheet on which the composition is coated. 4,645,805, 2-24-87, Cl. 525-437.000.

Gal, Andras: *See*—
  Zagyvai, Istvan; Gal, Andras; Merai, Jozsef; and Szamosi, Daniel, 4,675,114, Cl. 210-666.000.

Gal, Jean-Yves; Chiapello, Jean-Michel; Peyrot, Martial; and Tourneux, Etienne. Process for regulating an electro-dialyzer and improved electrodialysis apparatus. 4,713,156, 12-15-87, Cl. 204-182.400.

Gal, Laszlo V., to Unisys Corporation. Three-state logic circuit for wire-ORing to a data bus. 4,682,058, 7-21-87, Cl. 307-473.000.

Gal, Laszlo V., to Unisys Corporation. Logic circuit having testability for defective via contacts. 4,697,139, 9-29-87, Cl. 324-73.00R.

Gal, Uzi, to UZI R & D Associates. Grip and stock assembly for facilitating use of a compact gun. 4,640,036, 2-3-87, Cl. 42-72.000.

Galaj, Stanislas, to Compagnie Generale d'Electricite. Device for removing the liquid phase from a suspension. 4,647,376, 3-3-87, Cl. 210-297.000.

Galaj, Stanislas, to Compagnie Generale d'Electricite. Method and device for filtering a suspension of particles in a liquid. 4,708,801, 11-24-87, Cl. 210-636.000.

Galambos, Janos: *See*—
  Keve, Tibor; Zsadon, Bela; Fekete, Gyorgy; Galambos, Janos; Barta nee Bukovecz, Margit; Szporny, Laszlo; Forgacs, Lilla; Kiraly, Arpad; Soos, Gyongyver; Kiss, Bela; and Zajer nee Balazs, Maria, 4,680,397, Cl. 546-51.000.
  Megyeri, Gabor; Keve, Tibor; Stefko, Bela; Bogsch, Erik; Galambos, Janos; Kassainee Zieger, Anna; Trischler, Ferenc; Palosi, Eva; Groo, Dora; Karpati, Egon; Szombathelyi, Zsolt; Szporny, Laszlo; Kiss, Bela; Laszlovszky, Istvan; and Lapis, Erzsebet, 4,681,887, Cl. 514-284.000.

Megyeri, Gabor; Keve, Tibor; Galambos, Janos; Kovacs, Lajos, Jr.; Stefko, Bela; Bogsch, Erik; and Trischler, Ferenc, 4,697,017, Cl. 544-346.000.

Galan Inchaurbe, Jose M. Spacial structure. 4,669,909, 6-2-87, Cl. 403-190.000.

Galand, Claude; and Daulasim, Khamphuc, to International Business Machines Corp. Method and device for coding a voice signal. 4,677,671, 6-30-87, Cl. 381-31.000.

Galand, Claude: *See—*

DesBlache, Andre; Galand, Claude; and Vermot-Gauchy, Robert, 4,672,669, Cl. 381-46.000.

Galani, Zvi, to Raytheon Company. Single resonator push-push oscillator. 4,692,714, 9-8-87, Cl. 331-1.00R.

Galasso, Francis S.; and Veltri, Richard D., to United Technologies Corporation. Gas turbine composite parts. 4,671,997, 6-9-87, Cl. 428-408.000.

Galasso, Francis S.: *See—*

Veltri, Richard D.; and Galasso, Francis S., 4,652,183, Cl. 407-119.000.

Galati, Gaspare; and Orsini, Mario, to Selenia Industrie Elettroniche Associate S.p.A. Device for the identification of undesirable echoes in radar systems. 4,712,109, 12-8-87, Cl. 342-159.000.

Galati, Gaspare: *See—*

D'Addio, Egidio; Galati, Gaspare; and Giaccari, Ennio, 4,636,793, Cl. 342-162.000.

Galaviz, Hector D.: *See—*

Perez, Ariel E.; and Galaviz, Hector D., 4,654,078, Cl. 75-118.00R.

Galbato, Anthony T., to TRW Inc. Sealed bearing assembly. 4,664,538, 5-12-87, Cl. 384-477.000.

Galbraith, Andrew D., to Lockheed Missiles & Space Company, Inc. Electric propulsion system for aircraft. 4,709,882, 12-1-87, Cl. 244-53.00R.

Galbraith, Douglas C., to Leland Stanford Junior University, Board of Trustees of the. Wide band inductive transdermal power and data link. 4,679,560, 7-14-87, Cl. 128-419.00R.

Galbraith, Ross E., to Burroughs Corporation. Hub assembly. 4,664,252, 5-12-87, Cl. 198-722.000.

Galceran, Christian: *See—*

Haroutel, Jean-Claude; and Galceran, Christian, 4,633,644, Cl. 53-258.000.

Galco, Inc.: *See—*

Gallentine, William, 4,689,957, Cl. 60-481.000.

Gale, Allan R.; and Gritter, David J., to Eaton Corporation. Motor electrical positioning system and the application thereof within vehicle traction drives. 4,698,562, 10-6-87, Cl. 318-254.000.

Gale, David M., to Du Pont de Nemours, E. I., and Company. Cement reinforcement. 4,693,749, 9-15-87, Cl. 106-99.000.

Gale, Edward R. Panel measuring and layout tool. 4,662,080, 5-5-87, Cl. 33-528.000.

Gale, John A.: *See—*

Eastman, Winthrop A.; and Gale, John A., 4,633,814, Cl. 119-71.000.

Gale, John C., to Cabletime (Installations) Limited. Installation of communications cables. 4,647,251, 3-3-87, Cl. 405-154.000.

Gale, Michael T.; and Meier, Heinrich, to RCA Corporation. Apparatus for measuring parameters of light spots with a moving knife-edge mask. 4,663,524, 5-5-87, Cl. 250-237.00R.

Gale, Michael T.; Kleinknecht, Hans P.; and Knop, Karl H., to RCA Corporation. Method and apparatus for forming large area high resolution patterns. 4,668,080, 5-26-87, Cl. 355-51.000.

Gale, Paul N.: *See—*

Gostelow, Benjamin F.; Buick, Thomas R.; Hart, William B.; Gale, Paul N.; Carr, Trevor L.; Dibling, Richard C.; and Albon, Philip, 4,671,074, Cl. 62-186.000.

Gale, Robert M.; and Enscore, David J., to Alza Corporation. Transdermal delivery of highly ionized fat insoluble drugs. 4,645,502, 2-24-87, Cl. 604-896.000.

Gale, Robert M., to ALZA Corporation. Medical bandage for administering vasodilator drug. 4,661,105, 4-28-87, Cl. 604-897.000.

Gale, Robert M.; and Berggren, Randall G., to ALZA Corporation. Transdermal delivery system for delivering nitroglycerin at high transdermal fluxes. 4,681,584, 7-21-87, Cl. 604-897.000.

Gale, Robert M.; and Berggren, Randall, to ALZA Corporation. Medical device for pulsatile transdermal delivery of biologically active agents. 4,698,062, 10-6-87, Cl. 604-896.000.

Gale, Robert M.: *See—*

Shaw, Jane; and Gale, Robert M., 4,650,484, Cl. 604-897.000.

Shaw, Jane; and Gale, Robert M., 4,704,119, Cl. 604-897.000.

Gale, Simon J.: *See—*

Wong, Andrew C.; Fearnhead, Graham R.; and Gale, Simon J., 4,651,154, Cl. 342-356.000.

Gale, Stephen B.; and O'Donnell, Philip P., to Niagara Environmental Associates, Inc. Method of treating contaminant ions in an aqueous medium with electrolytically generated ferrous ions, and apparatus therefor. 4,693,798, 9-15-87, Cl. 204-149.000.

Galen, Neal. Sorter for automotive glove compartments. 4,675,970, 6-30-87, Cl. 29-413.000.

Galen, Neal. Sorter for automotive glove compartments. 4,693,382, 9-15-87, Cl. 211-189.000.

Galena, Peter E.: *See—*

Hackett, Walter; and Galena, Peter E., 4,704,429, Cl. 524-560.000.

Galensky, Duane; and Giuliani, Adrian A., to American Telephone and Telegraph Company; and AT&T Information Systems Inc. Communication system having multi-mode line selection buttons. 4,665,545, 5-12-87, Cl. 379-158.000.

Galensky, Duane; and Hammett, Warren G., to American Teleph and Telegraph Company, AT&T Bell Laboratories. Bit compres multiplexing. 4,697,264, 9-29-87, Cl. 370-111.000.

Galer, David G.: *See—*

Cordell, Henry L.; and Galer, David G., 4,691,846, Cl. 222-198

Galer, Donald R.: *See—*

Barnes, Stephen R.; Galer, Donald R.; and Leard, Richard 4,674,517, Cl. 128-663.000.

Galer, Herbert W. Impact-resistant thermoplastic paint can and 4,667,843, 5-26-87, Cl. 220-354.000.

Galerne, Jean, to LTM Corporation of America. Adjustable li projector. 4,692,844, 9-8-87, Cl. 362-3.000.

Galerneau, Jacques: *See—*

Brison, Bernard; Galerneau, Jacques; Gontier, Alex; and Petroz Gerard, 4,710,980, Cl. 2-50.000.

Galgana, Russell J.; Sutin, Gordon L.; McNerney, Michael; and M honey, Patrick F., to Smith & Mahoney, P.C. Recovery of use materials from refuse fuel ash. 4,669,397, 6-2-87, Cl. 110-259.000

Galgana, Russell J.; Mahoney, Patrick F.; and Sutin, Gordon L. Smith & Mahoney, P.C. Dry ash removal system. 4,715,763, 12-2 Cl. 414-216.000.

Galgana, Thomas C., to Norris, Wilfred. Lobster pot. 4,711, 12-8-87, Cl. 43-102.000.

Galiana, Patrick. Wind and course calculator for navigation. 4,652,7 3-24-87, Cl. 235-88.00N.

Galiano, Philip S. Scoop scraper tool. 4,674,186, 6-23-87, Cl. 30-169.0

Galiasso, Roberto: *See—*

Arias, Beatriz; Kum, Humberto; and Galiasso, Roberto, 4,670,1 Cl. 208-111.000.

Morales, Alfredo L.; Galiasso, Roberto; Carrasquel, Angel R.; Salazar, Jose A., 4,642,179, Cl. 208-217.000.

Galiasso, Roberto E.; Belandria, Jose I.; and Caprioli, Pasquale L., Intevep, S.A. Method for withdrawing particulate solid from a hi pressure vessel. 4,664,782, 5-12-87, Cl. 208-143.000.

Galiasso, Roberto E.: *See—*

Garcia, Juan J.; Galiasso, Roberto E.; Ramirez de Agudelo, Ma dalena M.; Rivas, Luis; and Hurtado, Juan, 4,701,435, C 502-252.000.

Martinez, Nelson P.; Galiasso, Roberto E.; Velasquez, Jose Lujano, Juan; and Zerpa, Carlos, 4,689,314, Cl. 502-210.000

Galich, Victor J. Stereo interface telephone ring detector. 4,65 3-24-87, Cl. 379-110.000.

Galik, George M. Liquid-liquid extractor. 4,657,401, 4-14-87, C 366-263.000.

Galik, George M. Printed circuit board fine line plating. 4,678,5 7-7-87, Cl. 204-15.000.

Galil Advanced Technologies Ltd.: *See—*

Ovil, Yoel; and Levy, Morris, 4,702,250, Cl. 128-334.00R.

Weintraub, David; and Zamir, Yaakov, 4,635,638, Cl. 128-340.0

Galileo Electro-Optics Corp.: *See—*

Tosswill, Christopher H., 4,636,629, Cl. 250-213.0VT

Tosswill, Christopher H., 4,701,618, Cl. 250-330.000.

Tosswill, Christopher H., 4,714,861, Cl. 315-117.000.

Galizia, Mauro; and Trevisiol, Franco, to Burndy Electra S.p.A. Fe male electrical contact element requiring relatively little connecting force and relative connector assembly. 4,666,227, 5-19-87, Cl. 3 64.00M.

Galkowski, Edward: *See—*

Doyle, Michael P.; Forte, Francis J.; and Galkowski, Edwa 4,707,880, Cl. 16-38.000.

Galkowski, Joseph J., to United States of America, Energy. Coppe vapor laser acoustic thermometry system. 4,697,270, 9-29-87, C 372-34.000.

Gall, Ewald; and Weller, Hans, to Maschinenbau Oppenweiler Binde GmbH & Co. Perforating cutter. 4,699,035, 10-13-87, Cl. 83-678.0

Gall, James W.: *See—*

Montgomery, Dean P.; Gall, James W.; and Davis, Ed D. 4,713,221, Cl. 422-190.000.

Gall, John C., to Sears, Roebuck & Co. Inertia controlled loading system. 4,678,454, 7-7-87, Cl. 474-101.000.

Gall, Rudi: *See—*

Bosies, Elmar; and Gall, Rudi, 4,666,895, Cl. 514-108.000.

Bosies, Elmar; and Gall, Rudi, 4,687,767, Cl. 514-89.000.

Gall, Winrich, to Dr. Ing. Rudolf Hell GmbH. Method and apparatu for producing half-tone printing forms with rotated screens on th basis of randomly selected screen threshold values. 4,700,23 10-13-87, Cl. 358-283.000.

Gallager, Dorothy W., to Yale University. Novel use of benzodiazepi antagonist. 4,666,903, 5-19-87, Cl. 514-220.000.

Gallager, Robert G., to Codex Corporation. Coded modulation syste 4,700,349, 10-13-87, Cl. 371-30.000.

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Gallaro, Anthony V., to North American Philips Consumer Electronics Corp. CRT with optical window and method. 4,681,775, 7-21-87, Cl. 427-64.000.

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Gallati, Harald, to Hoffmann-La Roche Inc. Detection method for occult blood. 4,683,197, 7-28-87, Cl. 435-7.000.

Gallavan, Kevin P.: *See—*

Taylor, Dennis R.; and Gallavan, Kevin P., 4,701,438, Cl. 502-405.000.

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Kuhne, Manfred; and Gallay, Jean J., 4,670,441, Cl. 514-270.000.

Gallay, Jean-Jacques; and Schweizer, Ernst, to Ciba-Geigy Corporation. Process for the manufacture of novel benzazole derivatives, pharmaceutical preparations containing these derivatives, and their use. 4,649,149, 3-10-87, Cl. 514-367.000.

Gallay S.A.: *See—*

Le Bret, Lucien F.; and Saada, Robert, 4,697,972, Cl. 413-6.000.

Galle, Edward M., Jr.; Gendron, Kevin; and Berner, Paul C., Jr., to Cameron Iron Works, Inc. Subsea wellhead structure. 4,691,780, 9-8-87, Cl. 166-348.000.

Galle, Kevin; Orimo, Ryoichi; Sakurada, Masahiko; Banno, Taiichi; and Manabe, Sugio, to Olympus Optical Co., Ltd. Automatic analyzing apparatus. 4,634,576, 1-6-87, Cl. 422-102.000.

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Galletti, Cesare, to Innse Innocenti Santeustacchio S.p.A. Coupling for connecting metal tubes end-to-end, particularly in marine pilings. 4,668,119, 5-26-87, Cl. 403-349.000.

Galley, Richard A.: *See—*

Bryant, David R.; and Galley, Richard A., 4,710,587, Cl. 568-454.000.

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Gallion, Georg A.; Bratke, Dieter N.; Helbig, Klaus; and Reuter, Karl F., to General Motors Corporation. Roof rack for motor vehicles. 4,640,450, 2-3-87, Cl. 224-331.000.

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Whitehead, Derek; Lien, Charles; Walz, Herman; and Gallios, George C., 4,670,817, Cl. 361-388.000.

Gallivan, Timothy J.: *See—*

Larson, Richard I.; Ringle, Richard P.; Connolly, John D., Jr.; and Gallivan, Timothy J., 4,696,769, Cl. 252-638.000.

Galliver, Robin: *See—*

Ball, Geoffrey; Galliver, Robin; and White, Martin, 4,658,803, Cl. 126-355.000.

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Saxinger, W. Carl; and Gallo, Robert C., 4,661,445, Cl. 435-7.000.

Gallop, Paul M., to Syntex (U.S.A.) Inc. Copolymers and hydrogels: process and articles made thereof. 4,634,722, 1-6-87, Cl. 523-106.000.

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Simonds, Gary; Jennings, Thomas P.; and Gallops, Henry, 4,693,228, Cl. 124-25.000.

Gallot, Jean-Claude; Lauvin, Pierre; and Lombard, Roger, to Automobiles Peugeot; and Automobiles Citroen. Valve actuating device in an internal combustion engine having four valves inclined in a V configuration and a central spark plug per cylinder. 4,671,222, 6-9-87, Cl. 123-90.270.

Galloway, Deane E.: *See—*

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Tse, Samuel W.; and Galloway, Deane E., 4,665,135, Cl. 525-432.000.

  Tse, Samuel W.; and Galloway, Deane E., 4,683,170, Cl. 428-349.000.

Galloway, James J.; and Madrigal, Anthony. Mechanical device for transmitting signals through a swivel connection. 4,679,645, 7-14-87, Cl. 180-65.800.

Galloway, John A.: *See—*

  Chance, Ronald E.; Frank, Bruce H.; and Galloway, John A., 4,652,547, Cl. 514-4.000.

  Chance, Ronald E.; Frank, Bruce H.; and Galloway, John A., 4,652,548, Cl. 514-4.000.

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Galloway, Lory, to Du Pont de Nemours, E. I., and Company. Optical coating composition. 4,650,743, 3-17-87, Cl. 430-278.000.

Galloway, Louie A., III: *See—*

  Price, William E.; Galloway, Louie A., III; Lowrey, Charles B.; and Lewis, Donald R., 4,636,475, Cl. 436-3.000.

Galloway, Michael D.; Rose, William H.; and Shaffer, David T., to AMP Incorporated. Method of making an electrical circuit package. 4,675,989, 6-30-87, Cl. 29-622.000.

Galloway, Michael D.; and Shaffer, David T., to AMP Incorporated. Electrical fuse component and method of using same. 4,689,597, 8-25-87, Cl. 337-186.000.

Galloway, Michael D.; Rose, William H.; and Shaffer, David T., to AMP Incorporated. Electrical connector assembly for antiskid braking system. 4,697,863, 10-6-87, Cl. 439-544.000.

Galloway, Terry R., to In-Process Technology, Inc. Hazardous waste reactor system. 4,688,495, 8-25-87, Cl. 110-250.000.

Gallucci, Robert R., to General Electric Company. Hydroxyl group graft modified polyolefins. 4,654,401, 3-31-87, Cl. 525-64.000.

Gallucci, Robert R.; and Avakian, Roger W., to General Electric Company. Modified polyphenylene ether-polyamide compositions. 4,659,763, 4-21-87, Cl. 524-358.000.

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Gallup, Michael G.; and McLaughlin, Kevin L., to Motorola, Inc. BICMOS logic having three state output. 4,703,203, 10-27-87, Cl. 307-446.000.

Gallus, Julius P., to Union Oil Company of California. Corrosion and erosion-resistant wellhousing. 4,674,572, 6-23-87, Cl. 166-285.000.

Gallusser, David O.; and Frear, David L., to Allied Corporation. Electrical connector having a molded anti-decoupling mechanism. 4,641,811, 2-10-87, Cl. 249-122.000.

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Galos, Imre G., to E. H. Wachs Company, The. Tube-squaring tool and clamping mechanism. 4,655,108, 4-7-87, Cl. 82-38.00R.

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Galtz, Ruediger; Goerlich, Dieter; and Reichensdoerfer, Alois, to Webasto-Werk W. Baier GmbH & Co. Intermediate housing for a fuel-operated heater. 4,688,718, 8-25-87, Cl. 237-12.30C.

Galumbeck, Michael H. Combined foundation and bedspread bench. 4,662,015, 5-5-87, Cl. 5-504.000.

Galumbeck, Michael H. Firmness control device. 4,677,701, 7-7-87, Cl. 5-447.000.

Galuska, Stefan: *See—*

  Murray, Peter K.; and Galuska, Stefan, 4,639,372, Cl. 424-88.000.

Galves, Jean P.: *See—*

  Boit, Jean C.; and Galves, Jean P., 4,680,461, Cl. 250-213.0VT.

Galves, Jean-Pierre; Gibilini, Daniel; and Rougeot, Henri, to Thomson-CSF. Image intensifier tube target and image intensifier tube with a video output provided with such a target. 4,647,811, 3-3-87, Cl. 313-372.000.

Galves, Jean Pierre: *See—*

  Gibilini, Daniel; and Galves, Jean Pierre, 4,661,742, Cl. 313-474.000.

Galvin, Aaron A.; Edson, James B.; and Guscott, John K., to American District Telegraph Company. Variable sensitivity motion detector. 4,636,774, 1-13-87, Cl. 340-565.000.

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Galvin, Aaron A.; Mason, Douglas L.; Leff, Kenneth J.; Schide, John N.; and Giffone, Ralph A., to ADT Inc. Modular transceiver with adjustable specular member. 4,687,924, 8-18-87, Cl. 250-216.000.

Galvin, James: *See—*

  Brown, Ian G.; and Galvin, James, 4,714,860, Cl. 315-111.810.

Galvin, John J.; and Miller, Richard L. Electrical shock proof fiber optic control system. 4,655,544, 4-7-87, Cl. 350-96.200.

Galway, Charles R.: *See—*

  Baker, Charles D.; Brimhall, Owen D.; and Galway, Charles R. 4,705,518, Cl. 623-14.000.

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Gam, Vivien W., to Riker Laboratories, Inc. Apparatus and method 4,635,627, 1-13-87, Cl. 128-200.140.

Gamarnik, Iosif I.: *See—*

  Vernikov, Arkady Y.; Gamarnik, Iosif I.; Rashkovich, Mikhail P. Trostanovsky, Boris A.; and Khinkus, Alexandr S., 4,691,183, Cl. 335-289.000.

Gamarra, Jose P., to Raychem Corporation. Drop-wire closure having first and second cams. 4,648,680, 3-10-87, Cl. 339-105.000.

Gamarra, Jose P., to Raychem Corporation. Drop-wire closure having a high axial strength. 4,685,756, 8-11-87, Cl. 439-426.000.

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Gamberini, Gino, to C.O.M. Cooperativa Operai Mobilieri S.C.R.L. Adjustable chair. 4,707,028, 11-17-87, Cl. 297-300.000.

Gambertoglio, Louis M., to Hughes Tool Company. Firing head for a tubing conveyed perforating gun. 4,648,470, 3-10-87, Cl. 175-4.54

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Gambetti, Mario, to Baumer di Mario Gambetti. Apparatus for stacking packages in particular for wrapping installations using a strip of heat-shrinkable material. 4,646,908, 3-3-87, Cl. 198-422.000.

Gambetti, Mario, to Baumer di Mario Gambetti. Apparatus for wrapping continuously moving articles with heat-shrinkable material 4,706,444, 11-17-87, Cl. 53-557.000.

Gambini, Luciano: *See—*

  Gatti, Gaetano; Oldani, Diego; Confalonieri, Carlo; and Gambini, Luciano, 4,675,311, Cl. 514-34.000.

Gambini, Michael R.; Martone, Ronald J.; Kearns, Donald S.; Enos, Gary W.; Franke, Rudi; and Schoeppy, Herbert, to Picker International, Inc. Emissive computed tomography. 4,645,933, 2-24-87, Cl. 250-363.00S.

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  Silvestri, Giuseppe; Gambino, Salvatore; and Filardo, Giuseppe 4,708,780, Cl. 204-59.00R.

Gamble, Donald E.; Hunter, Harry L.; and McKinney, Gordon R., to Bristol-Myers Company. Method for treatment of male impotence 4,687,771, 8-18-87, Cl. 514-253.000.

Gamble, Donald W.: *See—*

  Kamel, Ahmed A.; Graul, Donald W.; Chan, Fred N. T.; and Gamble, Donald W., 4,688,091, Cl. 358-109.000.

  Plescia, Carl T.; and Gamble, Donald W., 4,687,161, C 244-171.000.

Gamble, Howard R.; and Murrell, Kenneth D., to United States of America, Agriculture. Diagnostic reagent for swine trichinosis 4,670,384, 6-2-87, Cl. 435-7.000.

Gamble, William L., to W. E. Bassett Company, The. Nail clipper 4,640,011, 2-3-87, Cl. 30-28.000.

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Gamblin, Rodger L., to First National Bank of Cincinnati, The. Basic dye ink formulations and methods. 4,657,590, 4-14-87, Cl. 106-22.00

Gamblin, Rodger L., to Burlington Industries, Inc. Non-artificially perturbed (NAP) liquid jet printing. 4,698,642, 10-6-87, Cl. 346-75.000.

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  Myers, Nancy E.; Gamblin, Rodger L.; and Sugg, David J., 4,673,468, Cl. 204-24.000.

Gambrell, David E., to Thermo Kinetics Industries, Inc. Air cleaner assembly. 4,684,379, 8-4-87, Cl. 55-227.000.

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  Beck, Bernd A. W.; and Spranger, Kurt, 4,689,191, Cl. 264-573.000

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  Broddner, Sven M.; Bromster, Leif; Lundell, Ulf; and Pilenvik, Goran S., 4,702,242, Cl. 128-205.130.

Gambro Lundia AB: *See—*

  Christopherson, Kjell H.; Odelius, Tomas; Rosemeier, Friedrich Stenberg, Kaj O.; Svensson, Tommy E.; and Killmaier, Horst 4,636,204, Cl. 604-283.000.

  Dahlberg, Bengt A. G.; Jeppsson, Jan-Bertil; Ohlsson, Lars I.; and Simonsson, Tord B., 4,650,458, Cl. 604-5.000.

  Larsson, Lars-Ake L.; Nilsson, Ake W.; Johannson, Bo Ingemar W.; and Naucler, Lars Olof V., 4,708,714, Cl. 604-5.000.

  Schroder, Ulf; and Borrebaeck, Carl, 4,687,748, Cl. 436-526.000.

Gambs, Paul: *See—*

Renaud, Jean-Marie; Gambs, Paul; Perrot, Jean-Claude; and Taillebois, Jacques, 4,713,541, Cl. 250-231.0SE.

Gamburg, David: *See—*

Gohler, Peter; Mangler, Rolf; Schingnitz, Manfred; Seidel, Wolfgang; Berger, Friedrich; Gudymov, Ernest; Semenov, Vladimir; Fedotov, Vasilij; and Gamburg, David, 4,710,202, Cl. 48-73.000.

Gambuti, Patrick F.; and Martino, Louis I. Mobile display apparatus 4,701,627, 10-20-87, Cl. 296-21.000.

Game Time, Inc.: *See—*

Shannon, William H.; and Sutton, Wesley D., Jr., 4,706,952, Cl. 272-85.000.

Gamelin, Bruce W. Light signalling fishing accessory. 4,660,316, 4-28-87, Cl. 43-17.000.

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Perra, Raymond C.; Wilmot, Stephen B.; and Games, John E., 4,638,430, Cl. 364-300.000.

Games 'n Things Inc.: *See—*

Capri, Albert; and Capri, Samuel C., 4,655,461, Cl. 273-249.000.

Gamez, Gamaliel. Portable tire bead breaker. 4,655,271, 4-7-87, Cl. 157-1.260.

Gamm, Robert J., to Kangaroos U.S.A., Inc. Pocketed athletic shoe. 4,638,579, 1-27-87, Cl. 36-136.000.

Gamm, Robert J., to Kangaroos U.S.A., Inc. Rearwardly opening pocketed athletic shoe. 4,644,673, 2-24-87, Cl. 36-136.000.

Gamm, Robert J., to Kangaroos U.S.A., Inc. Athletic shoe pocket. 4,697,363, 10-6-87, Cl. 36-136.000.

Gamma Biologicals, Inc.: *See—*

Meserol, Peter M.; and Acker, Jesse L., 4,683,120, Cl. 422-72.000.

Gamma-Metrics: *See—*

Proctor, Raymond J.; Atwell, Thomas L.; Lingren, Clinton L.; and Miller, James F., 4,694,165, Cl. 250-252.100.

Gammerler, Hagen. Device for punching flat shaped articles, particularly paper, paperboard or the like. 4,633,746, 1-6-87, Cl. 83-602.000.

Gammerler, Hagen. Method of and an apparatus for uniting at least two streams of shingled laid out products, particularly folded paper products. 4,696,464, 9-29-87, Cl. 271-202.000.

Gammon, Norman P.; and Gammon, Phillip R., to Gammon Reel, Inc. Construction string reel. 4,662,078, 5-5-87, Cl. 33-413.000.

Gammon, Phillip R.: *See—*

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Gammon Reel, Inc.: *See—*

Gammon, Norman P.; and Gammon, Phillip R., 4,662,078, Cl. 33-413.000.

Gammons, Clifford E., to Span America Medical Systems, Inc. Applicator with fulcrum for bending. 4,701,168, 10-20-87, Cl. 604-310.000.

Gammons, Robert C., to Olin Corporation. Foam dispensing gun with improved mixing chamber. 4,708,292, 11-24-87, Cl. 239-414.000.

Gamo, Hiroshi: *See—*

Kodai, Syojiro; Fujii, Noriaki; Gamo, Hiroshi; and Kobayashi, Bunrou, 4,695,925, Cl. 361-395.000.

Gamoh, Akira; Miura, Takashi; Sawada, Toshiharu; and Kiyooka, Katsumi, to Komatsu Zenoah Co. Piggyback type blower unit. 4,658,778, 4-21-87, Cl. 123-195.00C.

Gamon, Norbert, to Consortium fur Elektrochemische Industrie GmbH. Method of isolating macrocyclic polyethers. 4,656,295, 4-7-87, Cl. 549-352.000.

Gamon, Vicente: *See—*

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Gamper & Co. AG: *See—*

Maeder, Rene; and Herzog, Albin, 4,683,918, Cl. 140-73.000.

Gamroth, Michael: *See—*

Hilbrans, Hermann; Gamroth, Michael; Melcher, Gerhard; and Megerle, Friedrich, 4,639,269, Cl. 75-76.000.

Ganapini, Giulio: *See—*

Corato, Renzo; Ganapini, Giulio; Meier, Hans-Anton; Poggi, Mauro; Rosso, Antonio; and Sanchioni, Sergio, 4,674,975, Cl. 432-11.000.

Gancy, Alan B. Low-energy process for the manufacture of calcium/-magnesium acetate-chloride deicers and freezing point depressants. 4,673,519, 6-16-87, Cl. 252-70.000.

Gancy, Alan B. Magnesium calcium acetate products, and process for their manufacture. 4,699,725, 10-13-87, Cl. 252-70.000.

Ganczarczyk, Jerzy J., to University of Toronto Innovations Foundation, The. Waste water treatment. 4,705,638, 1 -10-87, Cl. 210-710.000.

Gandelman, Mitchell S.: *See—*

Birks, John W.; and Gandelman, Mitchell S., 4,636,141, Cl. 436-172.000.

Ganderton, Alfred D.; and Brazier, William A., to E. Allman & Company Limited. Spraying equipment. 4,711,398, 12-8-87, Cl. 239-167.000.

Gandhi, Hemant M.: *See—*

McCallum, Robert S.; Plasschaert, Paul E.; Landheer, Dolf; and Gandhi, Hemant M., 4,679,060, Cl. 346-159.000.

Gandhi, Julia: *See—*

Aretz, Werner; Berscheid, Hans G.; Huber, Gerhard; Fehlhaber, Hans-Wolfram; Kraemer, Hans P.; Sedlacek, Hans-Harald; Ganguli, Bimal N.; Sood, Ratan S.; Gandhi, Julia; and Reddy, Gauknapalli C., 4,713,371, Cl. 514-34.000.

Gandhi, Om P., to Dosimeter Corporation of America. RF personnel dosimeter and dosimetry method for use therewith. 4,672,309, 6-9-87, Cl. 324-95.000.

Gandhi, Sharad P.: *See—*

Kronstadt, Eric P.; Gheewala, Tushar R.; and Gandhi, Sharad P., 4,691,277, Cl. 364-200.000.

Gandini, Alberto: *See—*

Roggero, Arnaldo; and Gandini, Alberto, 4,701,498, Cl. 525-293.000.

Gandini, Marco; and Torielli, Alessandro, to CSELT-Centro Studi e Laboratori Telecomunicazioni S.p.A. PCM compression by encoding runs of zeroes. 4,669,093, 5-26-87, Cl. 375-25.000.

Gandini, Mario: *See—*

Delueg, Werner; and Gandini, Mario, 4,682,883, Cl. 355-38.000.

Gandolf, Edward O.: *See—*

Johnson, John A.; Gandolf, Edward O.; and Preksta, Ronald M., 4,655,353, Cl. 211-189.000.

Gandolfi, Carmelo A.: *See—*

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Gandolfo, Paul J., to Thomas & Betts Corporation. Forming a wire marker sleeve. 4,636,271, 1-13-87, Cl. 156-73.100.

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Gandrud, Ebenhard S.: *See—*

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Gandy Company: *See—*

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Gandy, James, to Signtech Inc. Sign. 4,674,214, 6-23-87, Cl. 40-603.000.

Gandy, James, to Signtech Inc. Illuminated awning assembly. 4,692,847, 9-8-87, Cl. 362-152.000.

Gandy, Raymond C.: *See—*

Atkins, Kenneth E.; Gandy, Raymond C.; and Larck, William A., 4,678,711, Cl. 428-414.000.

Gandy, Russell E.: *See—*

McFarland, William W.; Gandy, Russell E.; and Churvis, Michael A., 4,693,413, Cl. 229-48.00R.

Ganebac, Inc.: *See—*

Olson, Gary M., 4,708,148, Cl. 128-781.000.

Ganellin, Charon R.; Ife, Robert J.; and Owen, David A. A., to Smith Kline & French Laboratories Limited. 2-substituted alkylaminopyrimidones useful as H_2-antagonists and antiinflamatory agents. 4,639,519, 1-27-87, Cl. 544-320.000.

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Durant, Graham J.; Ganellin, Charon R.; and Vickers, Margaret R., 4,649,138, Cl. 514-232.000.

Ganesan, Apparajan; and Weise, Wayne A., to AT&T Technologies, Inc. Method and apparatus for capacitive keyboard scanning. 4,651,133, 3-17-87, Cl. 340-365.00C.

Ganesan, Apparajan: *See—*

Burson, Klye L.; Campbell, Scott O.; Ganesan, Apparajan; and Morrison, Ronald A., 4,677,322, Cl. 307-525.000.

Ganesan, Kalyan: *See—*

Klovstad, John W.; Lee, Chin-Hui; and Ganesan, Kalyan, 4,713,777, Cl. 364-513.500.

Gang, Joseph M.; and Bain, Mitchell B., to Sytek, Inc. Method and an apparatus for early bit collision detection. 4,639,921, 1-27-87, Cl. 371-53.000.

Gang-Nail Systems Inc.: *See—*

Blanco, Antonio, 4,676,129, Cl. 83-71.000.

Castillo, Adolfo, 4,669,184, Cl. 29-798.000.

Palacio, Joaquim J.; and Cristobal, Carlos C., 4,665,677, Cl. 52-693.000.

Reaves, Lloyd L.; and Dawick, John K., 4,648,216, Cl. 52-90.000.

Ganga, Roland A., to Atochem. Apparatus for producing flexible composite material. 4,713,139, 12-15-87, Cl. 156-500.000.

Gangal, Subhash V.; and Malhotra, Satish C., to Du Pont de Nemours, E. I., and Company. Tetrafluoroethylene copolymers. 4,636,549, 1-13-87, Cl. 524-546.000.

GangaRao, Hota V. S., to Home Crafts Corporation. Reinforced concrete panels with improved welded joint. 4,676,035, 6-30-87, Cl. 52-125.500.

Gangarosa, Raymond E.: *See—*

Blakeley, Douglas M.; Kershaw, Carolyn A.; and Gangarosa, Raymond E., 4,694,837, Cl. 128-653.000.

Ganglberger, Klaus: *See—*

Feichtl, Roland; Deisenhammer, Walter; Rennstich, Eugen; and Ganglberger, Klaus, 4,655,664, Cl. 414-32.000.

Ganguli, Bimal N.: *See—*

Aretz, Werner; Berscheid, Hans G.; Huber, Gerhard; Fehlhaber, Hans-Wolfram; Kraemer, Hans P.; Sedlacek, Hans-Harald; Ganguli, Bimal N.; Sood, Ratan S.; Gandhi, Julia; and Reddy, Gauknapalli C., 4,713,371, Cl. 514-34.000.

Ganguli, Keshab L.; Nootenboom, Peter; and Lox, Cornelis M., to Internationale Octrooi Maatschappij "octropa" B.V. Nickel/alumina catalyst and process for its preparation. 4,657,889, 4-14-87, Cl. 502-335.000.

Ganguli, Keshab L.: *See—*

Oudejans, Johannes C.; Nootenboom, Peter; Ganguli, Keshab L.; and Lok, Cornelis M., 4,683,088, Cl. 260-409.000.

Ganguly, Ashit K.; Girijavallabhan, Viyyoor M.; Pinto, Patrick A.; and Versace, Richard W., to Schering Corporation. 2-(heterocycloalkylthio)penems. 4,690,922, 9-1-87, Cl. 514-210.000.

Ganguly, Biswa; Goss, Larry P.; Roquemore, William M.; and Trump, Darryl D., to United States of America, Air Force. Fiber optic pyrometry with large dynamic range. 4,679,934, 7-14-87, Cl. 356-43.000.

Ganguly, Biswa N.: *See—*

Goss, Larry P.; Grosjean, Dennis F.; Sarka, Benjamin, Jr.; Kizirnis, Sigmund W.; and Ganguly, Biswa N., 4,655,608, Cl. 374-119.000.

Ganguly, Pankaj, to University of Tennessee Research Corporation. Method of separating blood platelets. 4,656,035, 4-7-87, Cl. 424-101.000.

Ganguly, Suman. Magnetometers for detecting metallic objects in earth's magnetic field. 4,675,606, 6-23-87, Cl. 324-244.000.

Gani, Mohamed M.: *See—*

May, Keith; Gani, Mohamed M.; and Senior, Stephanie J., 4,659,666, Cl. 435-188.000.

Gann, Ronald A., to ITT Corporation. Spark ignition system with positive suppression of spark when pilot flame is sensed. 4,689,006, 8-25-87, Cl. 431-46.000.

Gannaway, Edwin L., to Tecumseh Products Company. Suction tube seal for a rotary compressor. 4,639,198, 1-27-87, Cl. 417-410.000.

Gannaway, Edwin L., to Tecumseh Products Company. Rotary compressor lubrication arrangement. 4,640,669, 2-3-87, Cl. 417-410.000.

Gannaway, Edwin L., to Tecumseh Products Company. Refrigeration system including capacity modulation. 4,694,660, 9-22-87, Cl. 62-196.400.

Gannaway, Jane P.: *See—*

Prunesti, James; Bell, William D.; Gannaway, Jane P.; O'Boyle, Dolores; and Tedeschi, Anthony, 4,701,964, Cl. 2-406.000.

Ganner, Erwin. Fitting for releasably joining two structural components. 4,641,988, 2-10-87, Cl. 403-245.000.

Gannis, Aphrodite: *See—*

Gannis, Peter M.; and Gannis, Aphrodite, 4,695,452, Cl. 424-59.000.

Gannis, Peter M., to Nabisco Brands, Inc. Process for preparing peanut flavor concentrate. 4,661,363, 4-28-87, Cl. 426-429.000.

Gannis, Peter M.; Wilkins, Howard; and Holloway, Oris E., Jr., to Nabisco Brands, Inc. Process for honey-roasting nuts. 4,692,342, 9-8-87, Cl. 426-293.000.

Gannis, Peter M.; and Gannis, Aphrodite. Cosmetic stick. 4,695,452, 9-22-87, Cl. 424-59.000.

Gannon, Charles R.: *See—*

Wombles, Robert H.; Carlos, Donald D.; and Gannon, Charles R., 4,659,389, Cl. 106-279.000.

Gannon, John R., to Corning Glass Works. Optical fiber formed of $MgO—Al_2O_3—SiO_2$ glass. 4,664,473, 5-12-87, Cl. 350-96.330.

Gannon, Mark A.; Kommrusch, Richard S.; and Yester, Francis R., Jr., to Motorola, Inc. Radio frequency filter having a temperature compensated ceramic resonator. 4,661,790, 4-28-87, Cl. 333-234.000.

Gannon, Patrick M.: *See—*

Brandt, Henry R.; Gannon, Patrick M.; Leung, Wan L.; and Marchini, Timothy R., 4,695,950, Cl. 364-200.000.

Gannon, Raymond, to FGL Projects Limited. Valves. 4,712,249, 12-8-87, Cl. 383-43.000.

Gano, John C., to Otis Engineering Corporation. Well drilling and completion apparatus. 4,691,781, 9-8-87, Cl. 166-368.000.

Gano, John C.; Schwendemann, Kenneth L.; Noack, Timothy J.; and Godfrey, Craig W., to Otis Engineering Corporation. Method and system for attaching and removing equipment from a wellhead. 4,702,320, 10-27-87, Cl. 166-343.000.

Gano, John W., to Gradall Company, The. Single engine excavator with remote control. 4,705,450, 11-10-87, Cl. 414-687.000.

Ganor, Zeev: *See—*

Fenster, Paul; and Ganor, Zeev, 4,694,339, Cl. 358-148.000.

Ganrot, Bertil A.: *See—*

Svengren, Anders G.; and Ganrot, Bertil A., 4,640,670, Cl. 425-142.000.

Gans, Michael J., to American Telephone and Telegraph Company AT&T Bell Laboratories. Multidirectional feed and flush-mounted surface wave antenna. 4,682,180, 7-21-87, Cl. 343-769.000.

Gans, Michael J.; Schneider, Martin V.; and Trambarulo, Ralph F., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Space amplifier. 4,689,631, 8-25-87, Cl. 343-781.00R.

Gans, Michael J.: *See—*

Acampora, Anthony; and Gans, Michael J., 4,638,476, Cl. 370-83.000.

Ganse, Akira: *See—*

Ikebuchi, Iwao; Fuse, Kazuo; and Ganse, Akira, 4,660,776, Cl. 241-53.000.

Ganser, Hans G.; Kersten, Reinhard; Schafer, Rolf; and Stormberg, Hans P., to U.S. Philips Corporation. Method of operating a high-pressure metal vapor discharge lamp and circuit arrangement for carrying out this method. 4,705,991, 11-10-87, Cl. 315-209.00R.

Ganser, Hans-Gunther: *See—*

Dannert, Horst; Ganser, Hans-Gunther; Schafer, Ralf; and Stormberg, Hans-Peter, 4,714,862, Cl. 315-244.000.

Ganser, Josef: *See—*

Wauer, Dieter; Plaschke, Herbert; Butz, Otto; and Ganser, Josef, 4,652,742, Cl. 250-223.00R.

Ganser, Marco: *See—*

Djordjevic, Ilija; and Ganser, Marco, 4,709,679, Cl. 123-447.000.

Gansert, Willi; Lochbrunner, Eduard; and Slansky, Harry, to Robert Bosch GmbH. Trigger mechanism construction for an automotive passenger restraint system. 4,713,573, 12-15-87, Cl. 310-329.000.

Gansloser, Helmut; and Nissenbaum, Benjamin, to Nissenbaum, Benjamin. Method of producing an algae growth-repellent underwater coating and the resultant product. 4,698,098, 10-6-87, Cl. 106-18.360.

Gansow, Michael A. P.; Shadid, Omar B.; and Spork, Johannes E. G., to Dow Chemical Company, The. Process for preparing rigid polyurethane foams. 4,704,411, 11-3-87, Cl. 521-166.000.

Ganss, Rolf. Process and device for producing a screen image with three-dimensional effect in a television receiver. 4,641,177, 2-3-87, C 358-3.000.

Ganssle, Eugene R.: *See—*

Fuldner, William V.; and Ganssle, Eugene R., 4,684,084, C 244-168.000.

Ganster, Otto: *See—*

Rasshofer, Werner; Ganster, Otto; Luckas, Brund; and Rottma Ludwig, 4,707,502, Cl. 521-159.000.

Gant, Alan D.: *See—*

Briggs, Willard S.; Gant, Alan D.; Gupta, Parveen K.; and Fenc Isadore S., 4,649,471, Cl. 364-200.000.

Gant, Lawrence A. Manual differential lock-up. 4,715,248, 12-29-87, C 74-710.500.

Gant, Martin. Moisture-actuated apparatus for controlling the flow water. 4,696,319, 9-29-87, Cl. 137-78.300.

Ganter, Max: *See—*

Ganter, Paul; and Ganter, Max, 4,697,361, Cl. 36-28.000.

Ganter, Paul; and Ganter, Max. Base for an article of footwea 4,697,361, 10-6-87, Cl. 36-28.000.

Ganter, Wolfgang; Flaig, Oskar; Oertel, Heinrich; Kaiser, Hans; K smaul, Ewald; and Brede, Hermann, to Junghans Uhren GmbH Timepiece and drive unit therefor. 4,666,313, 5-19-87, C 368-205.000.

Ganter, Wolfgang, to Junghans Uhren GmbH. Electronic device pow ered by solar cells. 4,714,352, 12-22-87, Cl. 368-64.000.

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Allgaier, Jurgen; Ganter, Wolfgang; and Flaig, Hans, 4,645,357, C 368-187.000.

Allgaier, Jurgen; and Ganter, Wolfgang, 4,650,344, Cl. 368-47.0

Gantin, Robert: *See—*

Schaulin, Jean-Michel; Gantin, Robert; and Kanat, Yas 4,674,393, Cl. 89-33.140.

Gantz, Bruno: *See—*

Bohg, Armin; Fischer, Ludwig; Gantz, Bruno; Hartmann, Kar and Wolfert, Gerhard, 4,688,012, Cl. 335-276.000.

Gantzer, Mary L.; Hemmes, Paul R., Jr.; and Wong, Daniel, to Mile Laboratories, Inc. Ion test means having a porous carrier matri 4,670,218, 6-2-87, Cl. 422-56.000.

Gantzhorn, John E., Jr.; McCloud, John W., II; and Uhler, Robert O. to Du Pont de Nemours, E. I., and Company. High speed thermo magnetic tape duplication. 4,698,701, 10-6-87, Cl. 360-16.000.

Ganz, Reinhold, to Protek AG. Hip joint socket for cement-free a choring in the pelvis. 4,666,448, 5-19-87, Cl. 623-22.000.

Ganz, Robert H., to Mead Packaging Corporation, The. Wrap f article clusters and apparatus for and method of applying same 4,633,647, 1-6-87, Cl. 53-398.000.

Ganz, Robert H., to Federal Paper Board Co., Inc. Variable plan compression apparatus, method of utilizing same, and carton for u therewith. 4,651,502, 3-24-87, Cl. 53-398.000.

Ganz, Robert H., to Mead Corporation, The. Wrapping machine f applying a web to one or more articles to form a package. 4,663,91 5-12-87, Cl. 53-398.000.

Ganz, Robert H., to Mead Packaging Corporation, The. Apparatus f and method of applying wrap to article clusters. 4,689,934, 9-1-87, C 53-398.000.

Ganz, Robert H.: *See—*

Johnson, Roy A.; and Ganz, Robert H., 4,691,606, Cl. 83-175.0

Ganz, Rudolf: *See—*

Buschmann, Rudiger; Ganz, Rudolf; Willmann, Gerd; Witt Ludwig; Elstner, Ingo; and Jeschke, Peter, 4,710,480, C 501-95.000.

Ganz, Tomas: *See—*

Lehrer, Robert I.; Selsted, Michael E.; and Ganz, Tomas, 4,705,7 Cl. 514-12.000.

Ganz, Ulrich W.; and Topness, Paul C., to Boeing Company, Th Inflow control device for engine testing. 4,691,561, 9-8-87, C 73-117.100.

Ganzer, Winfried, to Kraftwerk Union Aktiengesellschaft. Raw ga purified gas heat exchanger. 4,706,742, 11-17-87, Cl. 165-119.000.

GAO Gesellschaft fur Automation und Organisation mbH: *See—*

Haghiri-Tehrani, Yahya; and Hoppe, Joachim, 4,639,585, C 235-492.000.

Haghiri-Tehrani, Yahya; and Hoppe, Joachim, 4,709,254, C 357-72.000.

Haghiri-Tehrani, Yahya, 4,711,690, Cl. 156-309.600.

Maurer, Thomas; and Devrient, Ludwig, 4,672,891, Cl. 101-32.00

Muller, Hans; and May, Stefan, 4,659,113, Cl. 283-94.000.

Stenzel, Gerhard; and Kaule, Wittich, 4,650,319, Cl. 356-51.000.

Stenzel, Gerhard; and Kaule, Wittich, 4,691,940, Cl. 283-70.000

Gappa, Takeshi: *See—*

Murakami, Gen; and Gappa, Takeshi, 4,691,225, Cl. 357-80.000.

Gaprindashvili, Khanzerifa I.; Kogan, Vadim E.; Kekelia, Dzhemal I. Pronkin, Alexei A.; Salukvadze, Nana A.; Bakuradze, Georgy V. and Evstropiev, Konstantin K., deceased (by Evstropieva, Galina I. Sergei K. Evstropiev, administrators), to Institut Kibernetiki Akade mii Nauk Gruzinskoi SSR. Glass with anionic conductivity for fluo rine. 4,649,126, 3-10-87, Cl. 501-43.000.

Gara, Aaron D.: *See—*

Farrar, Reed A.; and Gara, Aaron D., 4,653,905, Cl. 356-4.000.

Garabedian, Aram: *See—*

Choy, Clement K.; Keen, Frederick I.; Garabedian, Aram; and Spurgeon, Colleen J., 4,695,394, Cl. 252-97.000.

Garabedian, George; and DeLuca, Robert A., to Stone & Webster Engineering Corp. Double tube helical coil steam generator 4,644,906, 2-24-87, Cl. 122-32.000.

Garagnani, Enea: *See—*
- Forti, Sergio; Garagnani, Enea; and Romanini, Daniele, 4,707,519, Cl. 525-133.000.

Garapick, Peter J.: *See—*
- Garapick, Ronald T.; and Garapick, Peter J., 4,706,424, Cl. 52-181.000.

Garapick, Ronald T.; and Garapick, Peter J. Floor module structure. 4,706,424, 11-17-87, Cl. 52-181.000.

Garau, Enrico: *See—*
- Ferrero, Franco; and Garau, Enrico, 4,706,372, Cl. 29-568.000.

Garavaglia, Attilio; Sironi, Enrico; and Gonzato, Rinaldo, to Costruzioni Aeronautiche Giovanni Agusta S.p.A. Main helicopter drive. 4,659,286, 4-21-87, Cl. 416-170.00R.

Garavaglia, Attilio; and Gonzato, Rinaldo, to Costruzioni Aeronautiche Giovanni Agusta S.p.A. Helicopter engine-drive assembly. 4,659,287, 4-21-87, Cl. 416-170.00R.

Garavuso, Gerald M.; Liang, Shwu-Jian; and Thettu, Raghulinga R., to Xerox Corporation. Paddle wheel feeder. 4,640,504, 2-3-87, Cl. 271-113.000.

Garavuso, Gerald M.; and Shinbrot, Troy, to Xerox Corporation. Platen transport and vacuum plenum for book copying. 4,693,594, 9-15-87, Cl. 355-25.000.

Garay, Oscar; Turner, Harvey N., Jr.; and Balzano, Quirino, to Motorola Inc. Switchless external antenna connector for portable radios. 4,661,992, 4-28-87, Cl. 455-89.000.

Garbade, Rolf; Kahle, Hans J.; Schreier, Hans H.; and Jabbusch, Wolfgang, to Pontech Gesellschaft fur Technologische Entwicklungen mbH. Process and device for recording the weight of refuse material as the material is emptied into a refuse collecting vehicle. 4,645,018, 2-24-87, Cl. 177-6.000.

Garbar, Henry J.; and Garbar, Joan H. Apparatus and method for preparing bread dough. 4,667,591, 5-26-87, Cl. 99-483.000.

Garbar, Henry J.; and Garbar, Joan H. Device for making cream. 4,702,608, 10-27-87, Cl. 366-146.000.

Garbar, Joan H.: *See—*
- Garbar, Henry J.; and Garbar, Joan H., 4,667,591, Cl. 99-483.000.
- Garbar, Henry J.; and Garbar, Joan H., 4,702,608, Cl. 366-146.000.

Garbarg, Monique: *See—*
- Arrang, Jean-Michel; Garbarg, Monique; Lancelot, Jean-Charles; Lecomte, Jeanne-Marie; Robba, Max-Fernand; and Schwartz, Jean-Charles, 4,707,487, Cl. 514-326.000.

Garbe, Bernard: *See—*
- Simonin, Marcel; Garbe, Bernard; and Carron, Alain, 4,640,047, Cl. 49-47.000.

Garbe, Dietmar R. Spirometer accessory. 4,640,293, 2-3-87, Cl. 128-716.000.

Garbis, Danny; Chan, Joseph J.; Granata, Amadeo J.; Coniglione, Philip; Briglia, Thomas D.; and Laterza, Lawrence E., to General Instrument Corp. Method for forming high yield epitaxial wafers. 4,659,400, 4-21-87, Cl. 148-175.000.

Garblik, Alvin. Plasterboard repair kit. 4,715,151, 12-29-87, Cl. 52-2.000.

Garbrecht, William L.; Marzoni, Gifford P.; and Whitten, Kathleen R., to Eli Lilly and Company. Alkoxy cycloalkanol esters of dihydrolysergic acid useful as 5HT receptor antagonists. 4,714,704, 12-22-87, Cl. 514-288.000.

Garbrecht, William L.: *See—*
- Cohen, Marlene L.; Fuller, Ray W.; Garbrecht, William L.; and Whitten, Kathleen R., 4,713,384, Cl. 514-288.000.
- Marzoni, Gifford P.; and Garbrecht, William L., 4,683,237, Cl. 514-288.000.
- Marzoni, Gifford P.; and Garbrecht, William L., 4,704,395, Cl. 514-288.000.
- Marzoni, Gifford P.; and Garbrecht, William L., 4,713,385, Cl. 514-288.000.
- Whitten, Kathleen R.; Garbrecht, William L.; Marzoni, Gifford P.; and Parli, C. John, 4,683,236, Cl. 514-288.000.
- Whitten, Kathleen R.; and Garbrecht, William L., 4,704,396, Cl. 514-288.000.

Garceau, Patrick; Lhuillery, Patrick; and Dumont, Paul, to Societe Anonyme: Societe Europeenne de Propulsion. Ball valve. 4,676,480, 6-30-87, Cl. 251-159.000.

Garceau, Roger: *See—*
- Tam, Le Dinh C.; Garceau, Roger; and Leblanc, Andre, 4,673,982, Cl. 358-167.000.

Garcera, Daniel; and Gillot, Jacques, to Ceraver, S.A. Assembly of mounted tubular filter members inside an envelope. 4,640,774, 2-3-87, Cl. 210-323.200.

Garces, Juan M.; and Robinson, John W., to Dow Chemical Company, The. Catalyst for preparing p-isopropenyl phenol. 4,657,890, 4-14-87, Cl. 502-340.000.

Garces, Luis J., to General Electric Company. Field weakening induction drive. 4,677,360, 6-30-87, Cl. 318-803.000.

Garcia, Alberto G.: *See—*
- Collins, Galen R.; and Garcia, Alberto G., 4,675,750, Cl. 360-9.100.

Garcia, Armando; and Nesmith, David V. Mosquito eliminator. 4,694,605, 9-22-87, Cl. 43-137.000.

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- Orero, Francisco O.; and Garcia, Augusto M., 4,679,523, Cl. 116-173.000.

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- Charvet, Jean-Louis; and Garcia, Christian, 4,644,989, Cl. 152-451.000.

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Garcia, Felix, Jr., to Texas Instruments Incorporated. Optically activated keyboard for digital system. 4,641,026, 2-3-87, Cl. 250-229.000.

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Garcia, Gustavo E.; and Gold, David, to Charles Stark Draper Laboratory, Inc., The. Multi-speed resolver using ferrite stator and rotor structures. 4,672,347, 6-9-87, Cl. 336-132.000.

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- Bhatia, Kishan; and Garcia, John G., Jr., 4,690,805, Cl. 423-224.000.

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Garcia, Juan J.; Galiasso, Roberto E.; Ramirez de Agudelo, Magdalena M.; Rivas, Luis; and Hurtado, Juan, to Intevep, S.A. Catalyst and method of preparation from a naturally occurring material. 4,701,435, 10-20-87, Cl. 502-252.000.

Garcia, Luciano F. Portable cooler. 4,655,052, 4-7-87, Cl. 62-441.000.

Garcia, Luis M. Hand exerciser. 4,634,114, 1-6-87, Cl. 272-67.000.

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Garcia, Marcel: *See—*
- Calevo, Robert; Dewez, Vincent; and Garcia, Marcel, 4,634,216, Cl. 350-96.210.

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Garcia, Ralph: *See—*
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Garcia, Raoul; Michaux, Daniel; and Sales, Andre, to SCP Biscornet. Ultrasonic device. 4,691,724, 9-8-87, Cl. 134-169.00R.

Garcia, Robert L. Floating fishing accessory. 4,638,593, 1-27-87, Cl. 43-54.100.

Garcia, Roy. Wall mounted hair dryer having adjustable outlet with multiple positions and directions. 4,642,909, 2-17-87, Cl. 34-97.000.

Garcia, Socorro: *See—*
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Garcia, Steven A. Soap holder cover. 4,654,901, 4-7-87, Cl. 4-605.000.

Garcia, Steven A. Soap holder cover. 4,709,428, 12-1-87, Cl. 4-605.000.

Garcia, Victor G.; Serrano, Ricardo J. P.; Elizalde, Fernando V.; and Cardenas, Luis F., to Vitro Tec Fideicomiso. Electronic system to control cooling of molds in glassware forming machines. 4,654,066, 3-31-87, Cl. 65-29.000.

Gard, Matthew F.: *See—*
- Murphy, Kenneth J.; Baker, Gerald R.; and Gard, Matthew F., 4,643,446, Cl. 280-648.000.

Gard, Michael F.; Warmack, Ralph E.; Lee, Kyong H.; and Maschhoff, Robert H., to Amoco Corporation. Adaptive seismic signal processor. 4,692,909, 9-8-87, Cl. 367-45.000.

Garda, Aboobaker. Non-computer learning aid. 4,664,633, 5-12-87, Cl. 434-164.000.

Garda, Alexandr P.: *See—*
- Nevgod, Vasily A.; Garda, Alexandr P.; and Kadyrov, Valery K., 4,687,135, Cl. 239-81.000.

Gardais, Jean-Francois: *See—*
- Commarmot, Roger; Didenot, Dominique; and Gardais, Jean-Francois, 4,681,740, Cl. 422-78.000.
- Commarmot, Roger; Didenot, Dominique; and Gardais, Jean-Francois, 4,693,867, Cl. 422-64.000.

Gardaix-Luthereau, Renee: *See—*
- Franceschini, Jacqueline; Gardaix-Luthereau, Renee; and Margarit, Josette, 4,703,055, Cl. 514-400.000.

Gardam, Allan, to Pilkington P.E. Limited. Anti-backlash cam. 4,688,902, 8-25-87, Cl. 350-429.000.

Gardaz, Claudine; and Buffard, Jean-Pierre, to SEB S.A. Method for forming a decoration on a coating of polytetrafluoroethylene (PTFE). 4,677,000, 6-30-87, Cl. 427-261.000.

Gardeen, John A., to Consolidated Electric Co. Control panel structure for a liquid pumping station. 4,705,456, 11-10-87, Cl. 417-7.000.

Garden, Robert L. Ball dispensing apparatus and method. 4,712,712, 12-15-87, Cl. 221-68.000.

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  Durrant, John T.; and Deily, Greg K., 4,699,219, Cl. 172-42.000.

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  Froelich, Hans; Hepperle, Willi; Katzer, Johann; and Stephany, Christian, 4,639,018, Cl. 285-184.000.
  Hepperle, Willi; Katzer, Johann; Froelich, Hans; and Stephany, Christian, 4,671,311, Cl. 137-268.000.
  Prestele, Erich; Schneider, Alfred; Hepperle, Willi; Katzer, Johann; Stephany, Christian; and Lopic, Franz, 4,673,307, Cl. 401-289.000.

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  Johnson, Charles B.; and Gardener, Howard D., 4,644,535, Cl. 370-99.000.

Gardenier, Karl-Josef; and Heimburger, Wolfgang, to Henkel Kommanditgesellschaft auf Aktien. Aqueous release agents. 4,645,537, 2-24-87, Cl. 106-243.000.

Gardent, Maurice: *See—*
  Karinthi, Pierre; Gardent, Maurice; Regnier, Colette; and Tuccella, Jean, 4,676,694, Cl. 405-130.000.

Gardi, Giovanni: *See—*
  Ferrando, Ugo; Gardi, Giovanni; and Pagliano, Giustino, 4,645,493, Cl. 604-174.000.

Gardi, Ivan: *See—*
  Balint, Sandor; Benczik nee Pasztor, Judit; Fodor, Jozsef; Horvath, Andras; Tomordi, Elemer; Soptei, Csaba; Karsai, Jozsef; Sebestyen, Endre; Gaal, Sandor; Gardi, Ivan; Kiss, Gyorgy; Papp, Andrass; and Csatlos, Imre, 4,668,274, Cl. 71-86.000.

Gardier, Patrick: *See—*
  Mounier-Poulat, Francois; Beaupellet, Jean; and Gardier, Patrick, 4,643,406, Cl. 267-52.000.

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  Dunnavant, William R.; Fechter, Robert B.; Gardikes, John J.; and Langer, Heimo J., 4,683,252, Cl. 523-143.000.

Gardineer, Bayard G., to Cobe Laboratories, Inc. Peristaltic pump. 4,674,962, 6-23-87, Cl. 417-477.000.

Gardiner, Philip; Chevis, Robert W.; and Penny, Robert N. Fuel control system. 4,649,700, 3-17-87, Cl. 60-39.281.

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Gardlund, Zachariah G.; and Bator, MaryAnn, to General Motors Corporation. High impact nylon/polyurea copolymer. 4,673,722, 6-16-87, Cl. 528-73.000.

Gardner, Arthur M. N.; and Fox, Roger H., to Electro-Biology, Inc. Method of promoting venous pump action. 4,696,289, 9-29-87, Cl. 128-64.000.

Gardner, Arthur M. N.; and Fox, Roger H., to Electro-Biology, Inc. Method and apparatus for inducing venous-return flow. 4,702,232, 10-27-87, Cl. 128-64.000.

Gardner, Bruce C.; Ingold, Daniel L.; and May, David A., to Appropriate Technology Corporation. Edge seal and rerailer for insulating shade. 4,651,796, 3-24-87, Cl. 160-266.000.

Gardner, Chester S.: *See—*
  Alster, Louis G.; and Gardner, Chester S., 4,650,334, Cl. 356-376.000.

Gardner, Dale A.: *See—*
  Harwell, William D.; and Gardner, Dale A., 4,664,344, Cl. 244-161.000.

Gardner, David L., to Batelle Development Corporation. Process of preparing microcapsules of lactides or lactide copolymers with glycolides and/or ε-caprolactones. 4,637,905, 1-20-87, Cl. 264-4.300.

Gardner, Dennis S. Band saw joint. 4,685,368, 8-11-87, Cl. 83-661.000.

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Gardner, Douglas S. Planer attachment for chain saws. 4,674,185, 6-23-87, Cl. 30-122.000.

Gardner, Geoffrey Y.: *See—*
  Berlin, Edwin P., Jr.; Gardner, Geoffrey Y.; Gelman, Robert M.; and Gershowitz, Michael N., 4,677,576, Cl. 364-522.000.

Gardner, Herman. Refining and/or alloying of a 3 percent to 6 percent carbon iron, cobalt, or nickel on a molten silver surface at temperatures 1000° C. to 1525° C. producing an iron cobalt or nickel powder, or their alloys and a petroleum product. 4,652,307, 3-24-87, 75-37.000.

Gardner, Hugh C.; Michno, Michael J., Jr.; Brode, George L.; Cotter, Robert J., to Union Carbide Corporation. Impact resis matrix resins for advanced composites. 4,661,559, 4-28-87, 525-65.000.

Gardner, Hugh C.: *See—*
  Domeier, Linda A.; and Gardner, Hugh C., 4,691,025, 548-521.000.

Gardner, Irwin J.; Fusco, James V.; and Baldwin, Francis P., to Ex Research & Engineering Co. Process for preparing improved halo nated butyl rubbers. 4,634,741, 1-6-87, Cl. 525-355.000.

Gardner, Irwin J.; and Fusco, James V., to Exxon Research & En neering Co. Process for producing brominated butyl rubber high primary allylic bromine. 4,649,178, 3-10-87, Cl. 525-306.000.

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Gardner, James D.: *See—*
  Mitchell, Hal D.; and Gardner, James D., 4,698,849, Cl. 2-115.0

Gardner, John F.; and Morton, Gerald H., to Xomox Corporatio Manually actuated fluid flow control valve and method of mak same. 4,678,159, 7-7-87, Cl. 251-107.000.

Gardner, John F.; and Morton, Gerald H., to Xomox Corporati Butterfly valve assembly and method of making same. 4,688,5 8-25-87, Cl. 137-340.000.

Gardner, John F.; and Morton, Gerald H., to Xomox Corporatio Valve assembly and method of making same. 4,690,164, 9-1-87, C 137-15.000.

Gardner, John F.; and Showalter, Thomas W., to Xomox Corporatio Valve and method of making same. 4,715,400, 12-29-87, C 137-341.000.

Gardner, John O.: *See—*
  Clark, Robin; Muchowski, Joseph M.; Chiu, Fang-Ting; Gardne John O.; and Berger, Jacob, 4,667,038, Cl. 546-145.000.
  Clark, Robin; Muchowski, Joseph M.; Chiu, Fang-Ting; Gardne John O.; and Berger, Jacob, 4,681,889, Cl. 514-307.000.

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  Pettigrew, Robert M.; Gardner, Keith; and Longman, Robert 4,703,469, Cl. 369-101.000.

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Gardner, Lloyd E.; Hogan, Robert J.; Sughrue, Edward L., II, a Myers, John W., to Phillips Petroleum Company. Hydrotreat process employing a three-stage catalyst system wherein a titan compound is employed in the second stage. 4,657,663, 4-14-87, 208-210.000.

Gardner, Lloyd E.; and Parrott, Stephen L., to Phillips Petrol Company. Hydrotreating catalyst and process. 4,707,246, 11-17 Cl. 208-251.00H

Gardner, Lloyd E.: *See—*
  Aldag, Arthur W., Jr.; and Gardner, Lloyd E., 4,652,546, 502-307.000.
  Bjornson, Geir; Klendworth, Douglas D.; Gardner, Lloyd E., Farha, Floyd E., Jr., 4,655,906, Cl. 208-217.000.
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Gardner, Loren D.: *See—*
  Kouns, Herbert H.; and Gardner, Loren D., 4,715,788, 417-218.000.

Gardner, Michael S. Animal identification tag. 4,646,455, 3-3-87, 40-301.000.

Gardner, Neal F., to TRW Inc. Bipolar transistor constructi 4,647,958, 3-3-87, Cl. 357-59.000.

Gardner, Neal F., to TRW Inc. Barrier emitter transistor. 4,672,4 6-9-87, Cl. 357-6.000.

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Gardner, Ralph F. Process for crushing cans. 4,700,950, 10-20-87, 273-1.0GH.

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Gardner, Richard O. Device for assessing inclination. 4,696, 9-29-87, Cl. 33-262.000.

Gardner, Terry N.; Brekke, James N.; Krolikowski, Lawrence P.; Dextraze, Raymond E., to Exxon Production Research Co. Vi tion-isolating apparatus. 4,657,116, 4-14-87, Cl. 187-1.00R.

Gardner, Thomas L. Portable brushfire hydrant. 4,671,315, 6-9-87, 137-355.120.

Gardner, William E.: *See—*
  Collins, Scott J., 4,697,343, Cl. 30-90.300.

Gardosi, Erwin. Machine readable information carrier. 4,654, 3-31-87, Cl. 235-376.000.

Gardy, Victor R. Tongue locking device to minimize effects of s apnea and to reduce snoring. 4,676,240, 6-30-87, Cl. 128-207.140

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Garehime, Jacob W., Jr. Surveillance and weapon system. 4,644,845, 2-24-87, Cl. 89-41.050.

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Blacker, Allen P., Jr.; Christensen, John A.; and Garewal, Khem K. S., 4,704,565, Cl. 315-382.000.

Garff, Jeffrey L. Faucet handle arrangement. 4,691,895, 9-8-87, Cl. 251-292.000.

Garfield, Nathaniel H.: *See—*

McSherry, Thomas W.; and Garfield, Nathaniel H., 4,650,386, Cl. 411-340.000.

McSherry, Thomas W.; and Garfield, Nathaniel H., 4,673,150, Cl. 248-73.000.

Garfield Weston Trust for Research into Heart Surgery, Trustees of the: *See—*

Gray, Charles R. W.; and Crawford, Neville, 4,680,177, Cl. 424-101.000.

Garfinkle, Andrew: *See—*

Hoffman, Allan S.; Garfinkle, Andrew; Ratner, Buddy D.; and Hanson, Stephen R., 4,656,083, Cl. 428-265.000.

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Garfinkle, Gene: *See—*

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Sherman, John D.; Nagji, Moez M.; Ross, Ronald J.; Ausikaitis, Joseph P.; and Garg, Desh R., 4,663,052, Cl. 210-679.000.

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Garg, Yogesh K.; and Hoffacker, Robert E., to Camrey Industries, Inc. Door latch assembly. 4,707,006, 11-17-87, Cl. 292-336.300.

Garganese, Richard S. Jewelry display device. 4,697,705, 10-6-87, Cl. 206-488.000.

Gargano, William L. B. Parachute suspension line attachment structure. 4,684,082, 8-4-87, Cl. 244-142.000.

Gargano, William L. B. Ram air parachute with multiple pressure centers. 4,705,238, 11-10-87, Cl. 244-145.000.

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Gargas, Eugene F., to Wooster Brush Company, The. Inlet valve assembly for paint sprayer. 4,684,334, 8-4-87, Cl. 417-568.000.

Gargos, Gary. Power plant driven by waves. 4,684,815, 8-4-87, Cl. 290-53.000.

Gargos, Gary. System for generating power from waves. 4,686,377, 8-11-87, Cl. 290-53.000.

Gargouil, Yves M.: *See—*

Marchand, Bernard; and Gargouil, Yves M., 4,703,057, Cl. 514-432.000.

Gariboldi, Franco: *See—*

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Garich Engineering: *See—*

Pusl, Kenneth E., 4,647,015, Cl. 254-230.000.

Garid, Inc.: *See—*

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Garjian, Michael. Luminous sign. 4,703,574, 11-3-87, Cl. 40-545.000.

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Nichols, David J., 4,714,050, Cl. 122-13.00R.

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Garland, Margaret G.: *See—*

Garland, G. Gray; and Garland, Margaret G., 4,671,495, Cl. 256-12.500.

Garland, Milton W., to Frick Company. Method and apparatus for making fragmentary ice. 4,646,526, 3-3-87, Cl. 62-66.000.

Garland, Robert E.: *See—*

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Garland, Thomas N. Extendable writing instrument. 4,678,356, 7-7-87, Cl. 401-95.000.

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Garlick, David R., to United Kingdom Atomic Energy Authority. Directional gamma ray monitor. 4,675,523, 6-23-87, Cl. 250-252.100.

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Garlick, George F. J.: *See—*

Lillington, David R.; Mardesich, Nick; Dill, Hans G.; and Garlick, George F. J., 4,694,115, Cl. 136-256.000.

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Garman, Andrew J.: *See—*

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McLean, John R., 4,638,634, Cl. 60-612.000.
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Shkedi, Zvi, 4,689,999, Cl. 73-708.000.
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GAS Gesellschaft fur Antriebs- und Steuerungs-technik mbH & Co. KG: *See*—

Goedecke, Wolf-Dieter; Schwenzer, Reinhard; and Huber, Ralf, 4,656,881, Cl. 74-110.000.

Schwenzer, Reinhard; and Cohanciuc, Victor, 4,658,231, Cl. 335-261.000.

Gas Research Institute: *See*—

Alpqvist, Jan A., 4,676,736, Cl. 431-243.000.

Ball, David A.; Hanna, William T.; and Wilkinson, William H., 4,667,485, Cl. 62-476.056.

Bridges, Jack E.; and Enk, Joseph O., 4,646,277, Cl. 367-191.000.

Kendall, Robert M., 4,658,762, Cl. 122-250.00R.

Kendall, Robert M.; Schreiber, Richard J.; Minden, Andrew C.; and Wong, Thomas, 4,664,620, Cl. 431-328.000.

Kent, William H.; and Steel, Robert C., 4,672,753, Cl. 33-366.000.

Kunz, H. Russell, 4,704,340, Cl. 429-29.000.

McDonald, William J.; Pittard, Gerard T.; Maurer, William C.; Wasson, Michael R.; and Herben, William C., 4,694,913, Cl. 175-61.000.

Meyer, Thomas J.; O'Toole, Terrence R.; Margerum, Lawrence D.; Westmoreland, T. David; Vining, William J.; Murray, Royce W.; and Sullivan, B. Patrick, 4,711,708, Cl. 204-280.000.

Wise, Boyd A.; and Miller, Stanley M., 4,667,750, Cl. 175-55.000.

Gasaway, Jack S.: *See*—

Parsons, James S.; and Gasaway, Jack S., 4,680,027, Cl. 604-68.000.

Gasc, Jean-Claude; Nedelec, Lucien; Rettien, Claude; and Nanopoulos, Dinah W., to Roussel Uclaf. 4-morpholinyl-1H-indoles, pharmaceutical compositions and use. 4,699,907, 10-13-87, Cl. 514-232.000.

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Middel, Roelof G.; and Oenema, Rinke, 4,685,422, Cl. 119-14.130.

Gash, Bruce W., to Standard Oil Company, The. Removal of phenols in groundwater after underground gasification of coal. 4,637,465, 1-20-87, Cl. 166-261.000.

Gash, Bruce W.; Arri, Luis E.; Hunt, Eltor B., Jr.; and Parrish, David R., to Amoco Corporation. Method of producing synthesis gas by underground gasification of coal using specific well configuration. 4,648,450, 3-10-87, Cl. 166-259.000.

Gash, Bruce W.: *See*—

Puri, Rajen; Arri, Luis E.; and Gash, Bruce W., 4,662,443, Cl. 166-261.000.

Gashet, Gerald: *See*—

Guery, Jean-Pierre; Gashet, Gerald; Olifant, Jacques; and Plumeret, Raymond, 4,644,308, Cl. 335-128.000.

Gasiecki, Alan F.: *See*—

Collins, Paul W.; and Gasiecki, Alan F., 4,683,328, Cl. 560-118.000.

Collins, Paul W.; and Gasiecki, Alan F., 4,713,477, Cl. 560-118.000.

Gaske, Joseph E.; and Zychowski, Edwin A., to DeSoto, Inc. Coating compositions and nail polish compositions including the same. 4,649,045, 3-10-87, Cl. 424-61.000.

Gaske, Joseph E., to DeSoto, Inc. Shrinkage-resistant ultraviolet-curing coatings. 4,657,779, 4-14-87, Cl. 427-54.100.

Gaskill, Garold B.; Park, Daniel J.; Rullman, Robert G.; Rose, Donald T.; Stiley, Joseph F., III; Barnum, Lewis W.; and Hoff, Don G., to A T & E Corporation. Watch pager system and communication protocol. 4,713,808, 12-15-87, Cl. 370-94.000.

Gaskins, Arthor L., to Mirkin, Morris K. Apparatus for combining graphics and video images in multiple display formats. 4,644,401, 2-17-87, Cl. 358-183.000.

Gasko, William F.: *See*—

Moore, Wayne E.; Quinn, Stephen R.; Tufts, Wesley M.; and Gasko, William F., 4,714,316, Cl. 350-96.200.

Gasner, Earl L.: *See*—

Witczak, Stanley; and Gasner, Earl L., 4,682,543, Cl. 101-350.000.

Gasner, John T.: *See*—

Gimpelson, George E.; Rivoli, Anthony L.; Gasner, John T.; and George, Elias W., 4,666,737, Cl. 427-89.000.

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Cox, David, 4,673,561, Cl. 423-559.000.

Gasowski, Chester J.; Loeffler, Ronald L.; Musteric, Joseph T.; Springford, Richard H.; and Toth, Robert L., Jr., to Goodyear Tire & Rubber Company, The. Radial tires and a belt structure therefor. 4,635,696, 1-13-87, Cl. 152-528.000.

Gaspar, Bertram: *See*—

Spielau, Paul; Kuhnel, Werner; Klaar, Karlo; Gaspar, Bertram; Weiss, Richard; Ulb, Horst; Breitscheidel, Hans-Ulrich; Klingberg, Gerd; and Fenske, Jurgen, 4,652,326, Cl. 156-244.110.

Gaspar, Janos, to Tungsram Reszvenytarsasag. Method of triggering a high pressure sodium vapor lamp and sodium vapor lamp with improved triggering. 4,658,184, 4-14-87, Cl. 315-47.000.

Gaspar, Michael F. Coffee filter separator. 4,667,996, 5-26-87, Cl. 294-61.000.

Gaspar, Thomas A., to Ribbon Technology Corporation. Textured substrate and method for the direct, continuous casting of metal sheet exhibiting improved uniformity. 4,705,095, 11-10-87, Cl. 164-463.000.

Gasparaitis, Bernard: *See*—

Richardson, Charles P.; Kuhl, Virgil; Gasparaitis, Bernard; Staple, Bruce; and Krieg, Larry M., 4,679,233, Cl. 379-433.000.

Gasparaitis, Bernard V.; and Richardson, C. Patrick, to Motorola, Inc. Liquid crystal display assembly with phosphorescent backlighting. 4,641,925, 2-10-87, Cl. 350-345.000.

Gaspard, Preston T., to Baker CAC. Flowline power generator. 4,654,537, 3-31-87, Cl. 290-54.000.

Gasparro, Michael R.; and Tome, Richard E., to Westinghouse Electric Corp. Reactor internals loose parts strainer. 4,716,012, 12-29-87, Cl. 376-352.000.

Gasparro, Michael R.: *See*—

Merkovsky, Daniel; and Gasparro, Michael R., 4,7 376-203.000.

Gasper, Kenneth E., to Olin Corporation. Boiler blowdown system and process for practicing same. 4,659,718, 1 340-603.000.

Gasper, Kenneth E., to Olin Corporation. Chemical drum d ing breather. 4,689,057, 8-25-87, Cl. 55-275.000.

Gasper, Reinhold; Hassler, Peter; and Zimmer, Johannes, t Johannes. Electromagnetic beam or table for screen or fi 4,649,816, 3-17-87, Cl. 101-126.000.

Gasquet, Denis; and Desarmaux, Pierre, to Salomon S.A. apparatus for a ski brake. 4,676,520, 6-30-87, Cl. 280-605

Gass, Donald N.: *See*—

Davie, Richard L.; and Gass, Donald N., 4,66 210-150.000.

Gass, Karl; Fory, Werner; Meyer, Willy; and Topfl, Werne Geigy Corporation. N-phenylsulfonyl-N'-triazinylureas 3-10-87, Cl. 71-93.000.

Gass, Karl: *See*—

Fory, Werner; Gass, Karl; and Meyer, Willy, 4,6 71-93.000.

Gass, Wanda K.: *See*—

Magar, Surendar S.; and Gass, Wanda K., 4,67 364-900.000.

Gassaway, J. Scott. Security rack. 4,634,009, 1-6-87, Cl. 211-

Gassaway, J. Scott. Method for forming a countersunk 4,713,960, 12-22-87, Cl. 72-412.000.

Gasser, Arthur: *See*—

Gasser, Monika, 4,646,951, Cl. 223-87.000.

Gasser, Karl, to Franz Buttner AG. Ink ribbon cassette 4-7-87, Cl. 400-208.000.

Gasser, Max. Device for checking the setting of the arrow gu on a sports bow. 4,653,191, 3-31-87, Cl. 33-169.00R.

Gasser, Monika, to Gasser, Arthur. Blank for a neckt 4,646,951, 3-3-87, Cl. 223-87.000.

Gassler, Herbert. Device to operate a piezoelectric ultraso ducer. 4,703,213, 10-27-87, Cl. 310-316.000.

Gassler, Richard D.; and Hahn, Dustan L., to United States of Air Force. Missile longitudinal support assembly. 4,665,79 Cl. 89-1.816.

Gassler, Richard D.; and Sridhar, Bettadapur N., to United America, Air Force. Missile azimuth alignment system 7-21-87, Cl. 89-1.816.

Gassman, Paul G.; and Winter, Charles H., to University of M Regents of the. (Perfluoroalkyl)-cyclopentadienylthallium 10-13-87, Cl. 556-1.000.

Gassmann, Ernst: *See*—

Zare, Richard N., and Gassmann, Ernst, 4,675,300, Cl. 43

Gassmann, Gerhard G., to ITT Industries, Inc. Superheter ceiver. 4,642,675, 2-10-87, Cl. 358-21.00R.

Gassmann, Gerhard G.; Schat, Hermannus; Elmis, Herbert; Bernd; Kappeler, Otmar; and Ehrhardt, Dietmar, to Deut Industries GmbH. Television sound receiving circuit for at sound channel contained in an RF signal. 4,710,814, 12 358-143.000.

Gassmann, Heiner; Beck, Siegfried; and Heinlein, Werner, t Bosch GmbH. Plastic part provided with a metal threaded 4,714,278, 12-22-87, Cl. 285-169.000.

Gassmann, Max, to L'Oreal. Method and device for the detect position of objects stacked on pallets. 4,638,171, 1-2 250-560.000.

Gast, Daniel A. Skinning device. 4,635,319, 1-13-87, Cl. 17-6

Gast, Daniel A. Game skinning device. 4,710,998, 12- 17-21.000.

Gastaldin, Gaetano: *See*—

Domenichini, Carlo; and Gastaldin, Gaetano, 4,651 324-64.000.

Gastaud, Michel: *See*—

Brunet, Henri; Mabru, Michel; and Gastaud, Michel, 4,70 372-88.000.

Gasteier, Rolf: *See*—

Goldhammer, Albert; Schleicher, Hans; Stangenberg, Gasteier, Rolf; and Erlecke, Jens, 4,709,197, Cl. 318-4

Gaster, Laramie M., and Orlek, Barry S., to Beecham Gr Indeno pyrazine and benzoquinoxaline intermediates 1-20-87, Cl. 544-344.000.

Gastinger, Robert G., to Atlantic Richfield Company. Sy N-halogenated phenyl maleimide compounds with tin c catalysts. 4,705,866, 11-10-87, Cl. 548-549.000.

Gastinger, Robert G.: *See*—

Sun, Hsiang-ning; and Gastinger, Robert G., 4,654 585-671.000.

Gaston, Charles A.: *See*—

Beumer, Karl W.; Gaston, Charles A.; Locke, Charles Alfred; O'Neill, Brian C.; Pinckney, Warren J.; and Wil D., 4,642,438, Cl. 219-121.00L.

Gaston County Dyeing Machine Company: *See*—

Turner, James K., 4,702,092, Cl. 68-53.000.

Zeiffer, Dieter F., 4,655,056, Cl. 68-205.00R.

Gaston, Didier: *See*—

Vuillaume, Pierre; and Gaston, Didier, 4,699,060, Cl. 10

Gaston, Ronald, to Aunger, Kim Garfield. Affixing means 8-11-87, Cl. 296-97.00A.

- Gastowt, Daniel J.: *See—*
  - Dore, Bernard-Frederic; and Gastowt, Daniel J., 4,660,494, Cl. 114-230.000.
- Gastrin, Jan, to Instrumentarium Corp. Filter arrangement for soft tissue. 4,541,336, 2-3-87, Cl. 378-156.000.
- Gastrin, Jan, to Instrumentarium Corp. Patient support system in a narrow-beam tomographic imaging apparatus. 4,675,888, 6-23-87, Cl. 378-38.000.
- Gastrock, William H.; and Wepplo, Peter J., to American Cyanamid Company. Process for the resolution of certain racemic amino nitriles. 4,683,324, 7-28-87, Cl. 558-354.000.
- Gat, Anita S., and Westerberg, Eugene R., to A. G. Associates. Apparatus using high intensity CW lamps for improved heat treating of semiconductor wafers. 4,680,451, 7-14-87, Cl. 219-411.000.
- Gat, Nahum, to TRW Inc. Pressure pump and injector valve system for liquid-propellant engines. 4,696,160, 9-29-87, Cl. 60-258.000.
- Gatan, Inc.: *See—*
  - Hagler, Herbert K., 4,672,797, Cl. 53-467.000.
  - Swann, Peter R.; and Kraus, Bernd, 4,703,181, Cl. 250-442.100.
- Gate S.p.A.: *See—*
  - Perosino, Alessandro, 4,684,324, Cl. 416-189.000.
- Gateau, Eugene. Vehicle of use in particular to a disabled person. 4,671,730, 6-9-87, Cl. 414-495.000.
- Gateau-Olesker, Alice: *See—*
  - Gero, Stephane; Cleophax, Jeanine; and Gateau-Olesker, Alice, 4,716,226, Cl. 540-200.000.
- Gateau, Paul: *See—*
  - Stern, Robert; Hillion, Gerard; Gateau, Paul; and Guibet, Jean-Claude, 4,695,411, Cl. 260-410.90R.
- Gatechair, Leslie R.; Blumenstein, Gary M.; and Schirmann, Peter J., to Ciba-Geigy Corporation. Ferrocenium/alpha-cleavage photoinitiator systems for free radical polymerizable compositions. 4,707,432, 11-17-87, Cl. 430-281.000.
- Gatechair, Leslie R.: *See—*
  - Kosnarek, Raymond S.; and Gatechair, Leslie R., 4,649,062, Cl. 427-54.100.
- Gatehouse, Angharad M. R.: *See—*
  - Boulter, Donald; Gatehouse, Angharad M. R.; Gatehouse, John A.; and Cox, Roger B., 4,640,836, Cl. 424-195.100.
- Gatehouse, John A.: *See—*
  - Boulter, Donald; Gatehouse, Angharad M. R.; Gatehouse, John A.; and Cox, Roger B., 4,640,836, Cl. 424-195.100.
- Gately, William L.: *See—*
  - Han, Choong Y.; and Gately, William L., 4,689,372, Cl. 525-390.000.
- Gater, Arnold C.; and Hu, Thomas S. S., to Kwikset Corporation. Doorlatch knob assembly having front end loading. 4,672,829, 6-16-87, Cl. 70-472.000.
- Gates, Alan H.: *See—*
  - Hedrick, Steven E.; and Gates, Alan H., 4,690,701, Cl. 55-436.000.
- Gates, Alfred S., Jr., to Fansteel Inc. Hard coatings with multiphase microstructures. 4,714,660, 12-22-87, Cl. 428-698.000.
- Gates Corporation, The: *See—*
  - Nemeth, Joseph C.; and Watkins, Richard L., 4,677,268, Cl. 200-159.00B.
  - Watkins, Richard L., 4,634,623, Cl. 428-208.000.
- Gates, Duncan A.: *See—*
  - West, Peter J.; Hunt, Russell G.; and Gates, Duncan A., 4,692,457, Cl. 514-361.000.
- Gates Energy Products, Inc.: *See—*
  - Mullersman, Ferdinand H.; and McClelland, Mark E., 4,698,578, Cl. 320-13.000.
  - Pensabene, Saverio F.; West, Jon K.; Leclair, Robert A.; Van Conant, Carl F.; Catotti, Arthur J.; and Fralick, William L., 4,686,013, Cl. 204-2.100.
  - Uba, Toshio; and Nelson, Robert F., 4,637,966, Cl. 429-57.000.
  - Uba, Toshio; and Nelson, Robert F., 4,648,177, Cl. 29-623.200.
- Gates, Louis E., Jr.; Kamensky, Albert; and Devendorf, Don C., to Hughes Aircraft Company. Microelectronic package. 4,705,917, 11-10-87, Cl. 174-52.0FP.
- Gates, Paul E., to GTE Products Corporation. Ruggedized mount structure for tungsten halogen lamp. 4,673,840, 6-16-87, Cl. 313-25.000.
- Gates, Richard A.: *See—*
  - Cloutier, Robert P.; Gates, Richard A.; and Wolcott, Dana W., 4,659,200, Cl. 354-121.000.
  - Cooper, Andrew T.; Cloutier, Robert P.; and Gates, Richard A., 4,660,950, Cl. 354-173.100.
- Gates Rubber Company, The: *See—*
  - Arterburn, Robert B., 4,644,977, Cl. 138-137.000.
  - Barnes, John A.; Sundberg, Harrell P.; and Haney, Joe C., 4,675,780, Cl. 361-215.000.
  - Bohl, Aleck; Meyers, John; and Valdez, Leandro, 4,714,178, Cl. 222-107.000.
  - Fischer, Richard J., 4,700,954, Cl. 277-165.000.
  - Haney, Joe C.; and Sotelo, Albert M., 4,652,475, Cl. 428-36.000.
  - Kemper, Dennis C.; and Schelhaas, Douglas D., 4,660,867, Cl. 285-256.000.
  - Lodge, Edith M., 4,693,381, Cl. 211-94.000.
  - Neaves, Larry E., 4,669,508, Cl. 138-121.000.
  - Neaves, Larry E., 4,698,890, Cl. 29-412.000.
  - Newberry, Mark A.; and Kemper, Dennis C., 4,679,599, Cl. 138-104.000.
  - Sotelo, Albert M.; and Trujillo, Ron D., 4,666,191, Cl. 285-149.000.
  - Westhoff, William L.; and Dutton, Roger W., 4,652,252, Cl. 474-204.000.
- Gates, Stillman E.: *See—*
  - Nelson, Gary A.; Godding, Patrick N.; Schumaker, Richard E.; Walter, Keith D.; Marrone, Edward S.; Gates, Stillman E.; Rigsbee, Everett O., III; and Teener, Michael D., 4,679,191, Cl. 370-84.000.
- Gates, Walter C., Jr.: *See—*
  - Najjar, Mitri S.; and Gates, Walter C., Jr., 4,666,464, Cl. 48-197.00R.
- Gates, William E.; and Fiato, Rocco A., to Exxon Research & Engineering Co. Catalysts in Fischer-Tropsch process for producing olefins. 4,639,431, 1-27-87, Cl. 502-304.000.
- Gateway Industries, Inc.: *See—*
  - Doty, Gerald A., 4,705,230, Cl. 242-107.40A.
  - Doty, Gerald A., 4,708,364, Cl. 280-806.000.
  - Doty, Gerald A., 4,708,366, Cl. 280-803.000.
- Gateway Plastics, Inc.: *See—*
  - Essen, R. Eric, 4,655,373, Cl. 222-465.100.
- Gathmann, Egon, to Barmag AG. Process and apparatus for degassing liquids, especially polymer melts and solutions. 4,711,647, 12-8-87, Cl. 55-52.000.
- Gatley, Derrick R.; and Duncan, David S., to Wilkinson Sword Limited. Knife sharpeners. 4,654,968, 4-7-87, Cl. 30-138.000.
- Gatlin, C. Elmon. Tactile training device for a tennis racket handle. 4,709,925, 12-1-87, Cl. 273-29.00A.
- Gator Culvert Company: *See—*
  - McCloskey, Antone J., 4,661,012, Cl. 405-16.000.
- Gatschmann, Klaus: *See—*
  - Ruppert, Heinrich W.; and Gatschmann, Klaus, 4,658,837, Cl. 131-70.000.
- Gatta, Mary L.: *See—*
  - DeFelice, Susan F.; Gatta, Mary L.; and DeFelice, Roger P., 4,656,682, Cl. 5-494.000.
- Gatten, Robert L. Stackable bottle. 4,671,412, 6-9-87, Cl. 206-504.000.
- Gattermann, Bernd: *See—*
  - Grosse-Scharmann, Franz; Gattermann, Bernd; and Gehrke, Rudolf, 4,646,941, Cl. 222-23.000.
  - Harrsen, Jan; Grosse-Scharmann, Franz; and Gattermann, Bernd, 4,651,331, Cl. 377-6.000.
  - Harrsen, Jan; Grosse-Scharmann, Franz; and Gattermann, Bernd, 4,675,520, Cl. 250-222.200.
- Gattermeyer-Kapp, Ulrike: *See—*
  - Kapp, Manfred; Gattermeyer-Kapp, Ulrike; and Harty, Alexander, 4,685,732, Cl. 297-35.000.
- Gatti, Antonio, to Fratelli Borletti S.p.A. Self destructing fuse for sub-munitions to be expelled from a rocket. 4,653,401, 3-31-87, Cl. 102-226.000.
- Gatti, Daniele. Quinoxalinemethanol compounds for combatting swine dysentery and as growth promoting factors, method of preparation, and compositions containing them. 4,634,702, 1-6-87, Cl. 514-249.000.
- Gatti, Emilio: *See—*
  - Rehak, Pavel; and Gatti, Emilio, 4,688,067, Cl. 357-29.000.
- Gatti, Gaetano; Oldani, Diego; Confalonieri, Carlo; and Gambini, Luciano, to Farmitalia Carlo Erba, S.p.A. Pharmaceutical compositions containing anthracycline glycosides. 4,675,311, 6-23-87, Cl. 514-34.000.
- Gatti, Irene, heir: *See—*
  - Taramasso, Marco, deceased; Notari, Bruno; Manara, Giovanni; and Bellussi, Giuseppe, 4,687,654, Cl. 423-329.000.
- Gatti, Joao M., to Owens-Illinois, Inc. Core rod assembly for injection blow molding machines. 4,668,177, 5-26-87, Cl. 425-529.000.
- Gatti, John E.; and Tarver, Carl R., to Motorola Computer Systems, Inc. Computer peripheral shock mount for limiting motion-induced errors. 4,713,714, 12-15-87, Cl. 360-137.000.
- Gatti, Norberto: *See—*
  - Foa, Marco; and Gatti, Norberto, 4,689,433, Cl. 568-424.000.
- Gattinger, Martin: *See—*
  - Lorenz, Joachim; and Gattinger, Martin, 4,714,139, Cl. 184-6.110.
- Gatto, Paul J. Mold and method of use. 4,704,840, 11-10-87, Cl. 52-741.000.
- Gatto, Vincent J.: *See—*
  - Gokel, George W.; and Gatto, Vincent J., 4,687,844, Cl. 540-467.000.
- Gattu, Narahari; and Bailey, Bryan K., to Harnischfeger Corporation. Method and apparatus for extending fly section of crane boom. 4,688,690, 8-25-87, Cl. 212-268.000.
- Gattuso, Mark J.; and Ellig, Daniel L., to UOP Inc. Catalyst for the selective hydrogenation of diolefinic hydrocarbons. 4,695,560, 9-22-87, Cl. 502-222.000.
- Gatward, Douglas K. Bag for a food product. 4,677,684, 6-30-87, Cl. 383-87.000.
- Gatzen, Robert A.: *See—*
  - Jones, Jonathan R.; and Gatzen, Robert A., 4,660,455, Cl. 84-413.000.
- Gaubatz, Tommy L.: *See—*
  - Diener, Walter C.; Gaubatz, Tommy L.; and Stiefel, Michael S., 4,699,305, Cl. 226-170.000.
- Gaubis, Philip A.: *See—*
  - Behr, Michael E.; Wozniak, Kenneth P.; Gaubis, Philip A.; Guest, Philip Q., Jr.; Graves, James L.; and Wand, Thomas J., 4,660,671, Cl. 180-142.000.
- Gaucher, Jean-Claude, to Commissariat a l'Energie Atomique. Optical device with a high collection efficiency and cytofluorimeter making use of the same. 4,673,289, 6-16-87, Cl. 356-72.000.
- Gaucher, Michel M., to Electronique Serge Dassault. Device for cutting a strip of paper or similar material along preestablished transverse lines of weakness. 4,697,726, 10-6-87, Cl. 225-100.000.

Gauckler, Ludwig: *See—*
  Kampfer, Konrad; Rieger, Wolfhart; Gauckler, Ludwig; and Dellapina, Marco, 4,678,758, Cl. 501-80.000.
  Rieger, Wolfhart; Gauckler, Ludwig; Maurer, Albert; and Kampfer, Konrad, 4,690,763, Cl. 210-496.000.
Gard, Pierre; and Joubert, Jean-Claude, to Centre National de la Recherche Scientifique. Process for the preparation of magnetized hexagonal ferrites, use of these ferrites as base materials for magnets or for magnetic recording. 4,671,885, 6-9-87, Cl. 252-62.590.
Gaude, Maurice, to La Telemecanique Electrique. Circuit for controlling the base of a power transistor used in high tension switching. 4,639,616, 1-27-87, Cl. 307-270.000.
Gaudelli, Edmond N.; and Shepler, Edward E. Apparatus and procedure for forming pre-shaped interlocking cement slabs. 4,660,344, 4-28-87, Cl. 52-593.000.
Gaudenzi, Gene J.; and Reedy, Dennis C., to International Business Machines Corporation. Switching circuit having low speed/power product. 4,682,056, 7-21-87, Cl. 307-456.000.
Gaudenzi, Gene J.: *See—*
  Beranger, Herve L.; Gaudenzi, Gene J.; Reedy, Dennis C.; and Schettler, Helmut, 4,682,050, Cl. 307-270.000.
Gaudet, Ronald F., to Future Apparatus Corporation. Collapsible stand especially for books. 4,674,724, 6-23-87, Cl. 248-459.000.
Gaudfrin, Guy. Tightness device between the conveyor belt and the collecting box with one or more compartments of a vacuum belt filter. 4,659,469, 4-21-87, Cl. 210-400.000.
Gaudich, Werner: *See—*
  Erdelitsch, Herbert; Gaudich, Werner; and Hecht, Walter, 4,648,728, Cl. 384-537.000.
Gaudilliere, Bernard; and Rousseau, Jean, to Synthelabo. 2-(4-benzoyl-1-piperidyl)-1-phenylalkanol derivatives. 4,711,899, 12-8-87, Cl. 514-330.000.
Gaudilliere, Bernard: *See—*
  Wick, Alexander; Frost, Jonathan; Gaudilliere, Bernard; Bertin, Jean; Dupont, Regis; and Rousseau, Jean, 4,690,931, Cl. 514-317.000.
Gaudin, Carl J. Self sealing sewer cover assembly. 4,68[illegible],907, 7-28-87, Cl. 404-25.000.
Gaudio, Raymond J., to Napco Security Systems, Inc. Keyboard hold-down functions for a multi-zone intrusion detection system. 4,667,183, 5-19-87, Cl. 340-501.000.
Gaudreau, Charles H., Jr. Aquatic exercise apparatus. 4,712,788, 12-15-87, Cl. 272-69.000.
Gaudreau, Laurent R., to Ex-Cell-O Corporation. Apparatus and method for reducing neck waste in a cast vinyl shell. 4,716,903, 12-29-87, Cl. 264-302.000.
Gaudreau, Laurent R.: *See—*
  Belleville, Ernest L.; and Gaudreau, Laurent R., 4,683,098, Cl. 264-302.000.
Gauer, Glenn G. Framer. 4,704,796, 11-10-87, Cl. 33-1.00B.
Gauer, Richard. Alpine ski. 4,705,291, 11-10-87, Cl. 280-609.000.
Gauffin, Ulf; and Soderluad, Bjorn, to Allman Byggnadsservice AB ABS. Arrangement in plant equipment for supplying a binding agent directly to a building element. 4,634,347, 1-6-87, Cl. 417-45.000.
Gaug, Robert T. Tool for manually rotating the star wheel of a brake adjuster. 4,713,991, 12-22-87, Cl. 81-176.100.
Gaugel, Manfred: *See—*
  Bunk, Axel; Eichelbronner, Gottfried; Haake, Rainer; Stadler, Karl; and Gaugel, Manfred, 4,659,318, Cl. 445-54.000.
Gauger, Jurgen F.: *See—*
  de Nora, Vittorio; Gauger, Jurgen F.; Fresnel, Jean-Marie; Adorian, Iudita L.; and Duruz, Jean-Jacques R., 4,650,552, Cl. 204-67.000.
Gaughan, Richard: *See—*
  Budd, Stephen C.; and Gaughan, Richard, 4,653,088, Cl. 379-165.000.
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Gaughan, Roger G., to Phillips Petroleum Company. Preparation of a high molecular weight poly(arylene sulfide ketone). 4,716,212, 12-29-87, Cl. 528-226.000.
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  Deeg, Rolf; Roder, Albert; Siedel, Joachim; Gauhl, Helmgard; and Ziegenhorn, Joachim, 4,645,739, Cl. 435-25.000.
Gaul, Craig S.; Knutson, Oliver M.; and Watson, Donald C., to Gaul, Craig S.; and Knutson, Oliver M. Drain hole seal with bottom bleeder. 4,649,674, 3-17-87, Cl. 52-20.000.
Gaul, David J.; and Spencer, Robert E., to Owens-Corning Fiberglas Corporation. Corrosion resistant cobalt-base alloy and method of making fibers. 4,668,265, 5-26-87, Cl. 65-8.000.
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Gaul, Hartmut; Mickal, Hermann; and Haboeck, Adolf, to Siemens Aktiengesellschaft. Procedure and apparatus for uninterruptible power supply. 4,692,632, 9-8-87, Cl. 307-66.000.
Gaul, Hartmut: *See—*
  Dallhammer, Richard; Donig, Gerhard; Gaul, Hartmut; Schmidt, Walter; Neulinger, Franz; and Schummer, Helmut, 4,670,829, Cl. 363-57.000.
Gaul, Herr K.; Mogler, Herr J.; and Wiedmann, Herr H., to Gebruder Mogler GmbH & Co. Device for tapping containers filled with liquid. 4,684,038, 8-4-87, Cl. 222-89.000.
Gaul, James M.: *See—*
  Statton, Gary L.; and Gaul, James M., 4,711,910, Cl. 521-107.000.
Gaulding, William R.; Smith, William D.; and Marsh, Nicholas C., to Atchison, Topeka and Santa Fe Railway Company, The. Captive cross member system for restraining movement of lading. 4,
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Gaule, Gerhart K.; Yarwood, John C.; Ungarean, Gary L.; an
Derek E., to Olin Corporation. Regulation of the thickness of
magnetically cast thin strip. 4,674,557, 6-23-87, Cl. 164-467
Gauler, Kurt, to Incoe Exp. Inc. Nozzle for a synthetic plastic
molding machine. 4,702,686, 10-27-87, Cl. 425-190.000.
Gaulke, Gerald E.: *See—*
  Ballard, Jerry L.; Chatham, Dale; and Gaulke, Ger
  4,694,392, Cl. 364-200.000.
Gault, Frank W.: *See—*
  Haynes, Charles W.; and Gault, Frank W., 4,648,292, Cl. 81
Gault, Gregory: *See—*
  McKay, Scot A., 4,685,649, Cl. 248-594.000.
Gaunt, Loraine E.; Crosby, Samuel C.; Saunders, William J.; an
fey, Robert D., Jr., to Coca-Cola Company, The. Low-cost p
beverage dispenser and syrup supply system therefor. 4,
1-13-87, Cl. 222-129.100.
Gaunt, Loraine E.; Crosby, Samuel C.; Saunders, William J.; an
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12-8-87, Cl. 222-129.100.
Gaunt, Robert R.; and Ashman, Charles M., to Combustion En
ing, Inc. Control rod testing apparatus. 4,670,211, 6-2
376-245.000.
Gaur, Santosh P.: *See—*
  Anantha, Narasipur G.; Bhatia, Harsaran S.; Gaur, Santosh
  Mauer, John L., IV, 4,691,435, Cl. 437-175.000.
Gause, Lee W.: *See—*
  Huang, Shih L.; Scotese, Arthur; Libeskind, Mark; and Gau
  W., 4,636,638, Cl. 250-231.00R.
Gausepohl, Hermann: *See—*
  Brandt, Hermann; Fischer, Hermann; Dreher, Hermann;
  Eduard; Hambrecht, Juergen; Naarmann, Herbert; Echte,
  Gausepohl, Hermann; Siebel, Peter; Swoboda, Johann; Se
  bel, Gerd; and Nikles, Albert, 4,696,996, Cl. 528-214.00
  Pohrt, Juergen; Matern, Ruediger; Jenne, Helmut; Gaus
  Hermann; and Gerberding, Karl, 4,647,621, Cl. 525-71.00
Gauss, Stephen: *See—*
  Flukiger, Rene; and Gauss, Stephen, 4,687,883, Cl. 174-126
Gauss, Walter; Kabbe, Hans-Joachim; Paulus, Wilfried; Rosslent
Hans-Jurgen; and Brandes, Wilhelm, to Bayer Aktiengesell
Microbicidal agents containing 2-(1H-pyrazol-1-yl)-4-(3H)-qui
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Gaussa, Louis W., Jr.; and Greenberg, Lesley, to Westinghouse E
Corp. Reactor power level monitoring system using an alp
tracker. 4,671,919, 6-9-87, Cl. 376-254.000.
Gaussiran, Wanda A.: *See—*
  Modrovich, Ivan E.; Wegfahrt, Paul F., Jr.; and Gaussiran,
  A., 4,652,524, Cl. 435-188.000.
Gautherin, George A.; and Greenberg, Sol, to Veeco Instrumen
High switching frequency converter auxiliary magnetic windi
snubber circuit. 4,675,796, 6-23-87, Cl. 363-20.000.
Gautherin, Jean-Claude: *See—*
  Laude, Jean-Pierre; Flamand, Jean; and Gautherin, Jean-C
  4,675,860, Cl. 370-3.000.
Gautherot, Daniel; and Holtzer, Dominique, to Flonic. Watc
clock. 4,677,446, 6-30-87, Cl. 346-52.000.
Gauthier, Andre: *See—*
  Carpentier, Yves; and Gauthier, Andre, 4,636,611, Cl. 250-2
Gauthier, Andre M.: *See—*
  Talbot, Jean-Guy; and Gauthier, Andre M., 4,671,5
  280-16.000.
Gauthier, Daniel: *See—*
  Vialaron, Andre; Olalde, Gabriel; and Gauthier, Daniel, 4,
  Cl. 423-579.000.
Gauthier, George J.; and Miceli, John D., to Pfizer Inc. Dual
sequential method for production of sorbitol from hydrolyzed
solution. 4,694,113, 9-15-87, Cl. 568-863.000.
Gauthier, Gilbert, to Moulinages Henri Lacroix. Device for m
new type of yarn. 4,682,478, 7-28-87, Cl. 66-81.000.
Gauthier, Jean-Claude: *See—*
  Latourelle, Guy; and Gauthier, Jean-Claude, 4,706,7
  180-9.210.
Gauthier, Michel; and Fauteux, Denis, to Hydro-Quebec; and
Nationale Elf Aquitaine. Process for preparing alloyed m
electrodes. 4,690,840, 9-1-87, Cl. 427-436.000.
Gauthier, Michel: *See—*
  Armand, Michel; Chabagno, Jean-Michel; Ricoux, Philipp
  sort, Guy; Gauthier, Michel; Brochu, Fernand; and
  Philippe, 4,683,181, Cl. 429-192.000.
Gauthier, Pierre, to L'Air Liquide, Societe Anonyme pour l'E
l'Exploitation des Procedes Georges Claude. Method and inst
for recovering the heaviest hydrocarbons from a gaseous
4,666,483, 5-19-87, Cl. 62-24.000.
Gauthier, Rene: *See—*
  Roux, Georges; Mestais, Corinne; and Gauthier, Rene,
  Cl. 364-414.000.
Gautier, Francois: *See—*
  Bossuet, Patrice; and Gautier, Francois, 4,652,891, Cl. 343-
Gautier, Jean-Claude; Lecolier, Serge; Soriaux, Claude; and Ch
Sammy, to Societe Nationale des Poudres et Explosifs. Pro
the selective extraction of copper using 4-acyl-(3H)-pyrazol
4,666,513, 5-19-87, Cl. 75-117.000.
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unsaturations incorporating silylmetallocene groups, process for the manufacture of this polymer, and propellant composition having this polymer as a binder. 4,647,628, 3-3-87, Cl. 525-331.700.

Gautier, Jean-Claude C.; and Raynal, Serge F., to Societe Nationale des Poudres et Explosifs. Process for the manufacture of silylmetallocene compounds. 4,661,608, 4-28-87, Cl. 556-11.000.

Gautier, Jean-Claude C.; Fontanille, Michel H.; and Raynal, Serge F., to Societe Nationale des Poudres et Explosifs. Polymer with ethylenic unsaturations incorporating silylmetallocene groups, process for the manufacture of this polymer, and propellant composition having this polymer as a binder. 4,668,313, 5-26-87, Cl. 149-19.200.

Gautier, Paoul L. A.; and Cazes, Michel. Process and device for positioning handles or rigidifying elements on a tubular sleeve. 4,633,649, 1-6-87, Cl. 53-413.000.

Gautney, Joe, to Tennessee Valley Authority. Fluid fertilizers containing thiophosphoryl triamide. 4,676,822, 6-30-87, Cl. 71-29.000.

Gautron, Maurice, to Kley France. Compact, flexible cable connection. 4,652,166, 3-24-87, Cl. 403-41.000.

Gautschi, Andreas: *See*—

Egger, Friedrich; and Gautschi, Andreas, 4,688,336, Cl. 34-109.000.

Gautschi, Max, to BBC Brown, Boveri & Company, Limited. Single-sideband modulator and broadcast transmitter. 4,656,440, 4-7-87, Cl. 332-45.000.

Gauvry, Glenn A. Scissors with adjustable thumb loop. 4,642,895, 2-17-87, Cl. 30-341.000.

Gavigan, James A., to Irvin Industries, Inc. Free standing sunshade assembly. 4,707,018, 11-17-87, Cl. 296-976.000.

Gavagan, James A.: *See*—

Lobanoff, Mark; and Gavagan, James A., 4,715,644, Cl. 296-97.00H.

Gavaghan, Thomas J.; Boucher, Paul D.; and Janatka, Karel, to Pitney Bowes Inc. Document guide apparatus for preventing jams. 4,637,602, 1-20-87, Cl. 271-238.000.

Gavezotti, Piero; and Strepparola, Ezio, to Ausimont S.p.A. Stabilizers with arylphosphinic structure for perfluoro-polyether oils and greases. 4,681,693, 7-21-87, Cl. 252-49.900.

Gavin, Ann H.: *See*—

Gavin, F. Paul; Brigham, David F.; and Gavin, Ann H., 4,681,901, Cl. 521-54.000.

Gavin, F. Paul; Brigham, David F.; and Gavin, Ann H., to ModuForm, Inc. Neoprene foam of increased continuous volume. 4,681,901, 7-21-87, Cl. 521-54.000.

Gavin, James R.; and Phillips, Nicholas, to Mobil Oil Corporation. Dispensing carton and blank therefor. 4,645,108, 2-24-87, Cl. 225-103.000.

Gavin, John D., Jr.; and Meddaugh, Michael D., to Dow Corning Corporation. Method of constructing means for directing or holding water. 4,678,376, 7-7-87, Cl. 405-270.000.

Gavin, Joseph A.: *See*—

Schmitt, Ray F.; Trent, Chadwick L.; Gavin, Joseph A.; and Kempel, Francis D., 4,647,371, Cl. 210-96.100.

Schmitt, Ray F.; Gavin, Joseph A.; Kempel, Francis D.; and Waltrick, Charles N., deceased, 4,649,281, Cl. 250-574.000.

Gavory, Daniel: *See*—

Sambuis, Bernard; and Gavory, Daniel, 4,638,026, Cl. 524-98.000.

Gavranovic, Lee Roy C.: *See*—

Guidry, John P.; and Gavranovic, Lee Roy C., 4,681,163, Cl. 166-278.000.

Gavrilovich, Charles D., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Power transmission arrangement for telecommunications systems. 4,685,129, 8-4-87, Cl. 379-324.000.

Gavrin, Edward S.: *See*—

Bachman, Brett L.; Bernstein, David H.; Bratt, Richard G.; Clancy, Gerald F.; Gavrin, Edward S.; Gruner, Ronald H.; Jones, Thomas M.; Katz, Lawrence H.; Mundie, Craig J.; Pilat, John F.; Richmond, Michael S.; Schleimer, Stephen I.; Wallach, Steven J.; and Wallach, Walter A., Jr., 4,656,579, Cl. 364-200.000.

Clancy, Gerald F.; Mundie, Craig J.; Schleimer, Stephen I.; Wallach, Steven J.; Bratt, Richard G.; and Gavrin, Edward S., 4,660,142, Cl. 364-200.000.

Gruner, Ronald H.; Clancy, Gerald F.; Mundie, Craig J.; Schleimer, Stephen I.; Wallach, Steven J.; Bratt, Richard G.; Gavrin, Edward S.; Wallach, Walter A., Jr.; Ahlstrom, John K.; Richmond, Michael S.; Bernstein, David H.; Pilat, John F.; Farber, David A.; and Belgard, Richard A., 4,675,810, Cl. 364-200.000.

Gavronsky, German; and Krislav, Semyon, to Sealed Air Corporation. Apparatus and method for forming foam cushions for packaging purposes. 4,674,268, 6-23-87, Cl. 53-468.000.

Gavva, Viktor M.: *See*—

Paton, Boris E.; Vasiliev, Vsevolod V.; Bogdanovsky, Valentin A.; Baranov, Alexandr I.; Danilyak, Sergei N.; Schegolev, Viktor A.; Chernoivanov, Vladimir A.; Voloshin, Vitaly I.; Gavva, Viktor M.; and Bernadsky, Vsevolod N., 4,680,014, Cl. 434-234.000.

Paton, Boris E.; Vasiliev, Vsevolod V.; Bogdanovsky, Valentin A.; Danilyak, Sergei N.; Gavva, Viktor M.; Roiko, Jury P.; and Nushko, Valery A., 4,716,273, Cl. 219-130.010.

Gawargy, Mumtaz B., to Northern Telecom Limited. Trimming resistances in symmetrical polyphase networks. 4,647,843, 3-3-87, Cl. 323-370.000.

Gawel, Len J.: *See*—

Grimsley, R. LeRoy; and Gawel, Len J., 4,645,379, Cl. 405-210.000.

Gawell, George R.; Steinmetz, Richard J.; and Sutton, Leroy A., to Zenith Electronics Corporation. Temperature compensated drive circuit for CRT G2 grid. 4,645,988, 2-24-87, Cl. 315-401.000.

Gawley, Robin A.: *See*—

Keller, Paul R. N.; Gawley, Robin A.; and Stewart, Ian M., 4,688,106, Cl. 358-342.000.

Gawlik, Robert F.; and Eccles, Timothy C., to System Material Handling Company. Auxiliary wire connections for side post batteries. 4,643,511, 2-17-87, Cl. 339-231.000.

Gawol, Manfred; and Adrian, Gerhard, to Dr. Hans Heubach GmbH & Co. KG. Permanently non-dusting pigment and dye preparations, method for producing them, and measuring device therefor. 4,702,116, 10-27-87, Cl. 73-865.600.

Gawrisch, Wolfgang, to Hoechst Aktiengesellschaft. Process for the control of process parameters in the production of stretched foils. 4,684,487, 8-4-87, Cl. 264-22.000.

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Gawron, Klaus: *See*—

Schroder, Johann; Gawron, Klaus; Bertram, Leo; and Schemmann, Hugo, 4,709,752, Cl. 165-47.000.

Gawronski, Michael J.; and Lamberg, John R., to Honeywell Inc. Millimeter wave microstrip surface mounted attenuator. 4,716,389, 12-29-87, Cl. 333-81.00A.

Gawronski, Seweryn: *See*—

Hasslauer, Heinz; and Gawronski, Seweryn, 4,672,869, Cl. 82-2.500.

Gay, Charles: *See*—

Reuss, Gerald; Gwash, Kevin; Gay, Charles; and Bissonette, Noel G., 4,664,665, Cl. 623-6.000.

Gay, Charles F.: *See*—

Berman, Elliot; Gay, Charles F.; Miller, Stephen C.; and Tanner, David P., 4,663,495, Cl. 136-248.000.

Gay, Christian; and Lassiaz, Philippe, to Valeo. Pull-type clutch release bearing assembly. 4,697,681, 10-6-87, Cl. 192-98.000.

Gay, Don D.; and McMillan, William G., to United States of America, Energy. Sub-micron particle sampler apparatus. 4,677,863, 7-7-87, Cl. 73-863.120.

Gay, Joel: *See*—

Bagolin, Alain; and Gay, Joel, 4,694,588, Cl. 34-77.000.

Gay, Michael J., to Motorola, Inc. Automatic gain control circuit. 4,667,163, 5-19-87, Cl. 330-129.000.

Gay, Michel; and Millet, Claude, to Rhone-Poulenc Recherches. Novel silicone/polylactone graft copolymer. 4,636,552, 1-13-87, Cl. 525-63.000.

Gay, Michel: *See*—

Deschamps, Jacques; Gay, Michel; and Salavin, Serge, 4,650,434, Cl. 445-2.000.

Gay, Richard B.; and Crafts, Harold S., to NCR Corporation. Circuit for initiating test modes. 4,714,876, 12-22-87, Cl. 324-73.00R.

Gay, Richard L.; and Grantham, LeRoy F., to Rockwell International Corporation. Process for drying a chelating agent. 4,636,336, 1-13-87, Cl. 252-632.000.

Gay, Richard L.; and Grantham, LeRoy F., to Rockwell International Corporation. Method for magnesium sulfate recovery. 4,689,178, 8-25-87, Cl. 252-626.000.

Gay, Robert R., to Atlantic Richfield Company. Thin film solar cell module. 4,638,111, 1-20-87, Cl. 136-249.000.

Gay, Shelton M., Jr.: *See*—

Folb, Reece; and Gay, Shelton M., Jr., 4,655,155, Cl. 114-243.000.

Gaydarov, Emanuil S.; Russev, Koytcho Y.; Paltchin, Vassil A.; and Stoilov, Ivan T., to Avtokombinat. Trolleybus current collector system enabling common line passing. 4,698,462, 10-6-87, Cl. 191-59.100.

Gaydon Technology Limited: *See*—

Bray, David J.; and Piper, Francis R., 4,712,736, Cl. 239-11.000.

Gayer, Herbert; Brandes, Wilhelm; Hanssler, Gerd; and Reinecke, Paul, to Bayer Aktiengesellschaft. Novel thiolane-2,4-dione-3-carboxamide fungicides. 4,689,343, 8-25-87, Cl. 514-445.000.

Gayfer, David; Starkey, Stanley V.; and Wareham, John G., to Molins PLC. Packet handling apparatus. 4,690,265, 9-1-87, Cl. 198-347.000.

Gayler, Robert J., to Piper FM Limited. Fuel delivery to internal combustion engines. 4,677,958, 7-7-87, Cl. 123-585.000.

Gayliene Investments Limited: *See*—

Cuypers, Martinus H., 4,643,702, Cl. 474-242.000.

Cuypers, Martinus H., 4,645,478, Cl. 474-201.000.

Cuypers, Martinus H., 4,661,089, Cl. 474-242.000.

Gaylor, Verna F.: *See*—

Cuellar, Edward A.; and Gaylor, Verna F., 4,668,349, Cl. 204-59.00R.

Gaylord, Francis L.: *See*—

Morelli, Amedeo J.; and Gaylord, Francis L., 4,694,568, Cl. 29-620.000.

Gaymans, Reinoud J.; and Bongers, Antonius J. P. Process for the preparation of polytetramethylene adipamide. 4,716,214, 12-29-87, Cl. 528-335.000.

Gaynes, Chester. Modular container. 4,660,724, 4-28-87, Cl. 206-509.000.

Gaynor, Edwin. Sockets for compact fluorescent lamps. 4,713,019, 12-15-87, Cl. 439-232.000.

Gaynor, Sue: *See*—

Viegas, Steven F.; Tencer, Allan F.; Woodard, Peggy; and Gaynor, Sue, 4,662,364, Cl. 128-87.00R.

Gayral, Philippe G.; and Hublot, Bernard M., to Laboratoires Biocodex. Method for the treatment of amoebiasis. 4,643,897, 2-17-87, Cl. 424-93.000.

- Gaz de France: *See—*
  - Casier, Yves; Cassagne, Philippe; Dore, Bernard; and Gicquel, Sylvain, 4,638,943, Cl. 237-7.000.
  - Casier, Yves; Cassagne, Philippe; Gicquel, Sylvain; and Junet, Roland, 4,640,458, Cl. 237-17.000.
  - Couprie, Francois, 4,640,232, Cl. 122-7.00R.
  - Genest, Bernard, 4,710,312, Cl. 252-68.000.
  - Henault, Jean-Paul; Drapier, Albert; Grochowski, Guy; and Meslif, Alain, 4,677,939, Cl. 122-17.000.
  - Louis, Raymond, 4,642,049, Cl. 432-223.000.
  - Louis, Raymond, 4,712,774, Cl. 266-155.000.
- Gazale, William J. Combined chisel-guide surgical instrument. 4,697,586, 10-6-87, Cl. 128-92.00V.
- Gazda, Chester T.: *See—*
  - Lalikos, James M.; Gazda, Chester T.; and O'Melia, Lawrence, 4,675,221, Cl. 428-36.000.
- Gazdag, Maria: *See—*
  - Nagy, Geza T.; Szepesi, Gabor; Gazdag, Maria; Papp nee Sziklay, Zsofia; and Burger, Kalman, 4,684,638, Cl. 514-185.000.
- Gazdik, Charles E.: *See—*
  - Clementi, Robert J.; Gazdik, Charles E.; Lafer, William; Lovesky, Roy L.; McBride, Donald G.; Munson, Joel V.; and Skarvinko, Eugene P., 4,681,654, Cl. 156-630.000.
- Gazeley, Albert E., to Polaroid Corporation. Optical accessory for use with spectacles. 4,659,196, 4-21-87, Cl. 351-57.000.
- Gazit, Samuel; and Fleischer, Cathy A., to Rogers Corporation. Flexible circuit laminate and method of making the same. 4,634,631, 1-6-87, Cl. 428-421.000.
- Gazit, Samuel; and Kneeland, Thomas S., to Rogers Corporation. Flexible circuit laminate. 4,647,508, 3-3-87, Cl. 420-421.000.
- Gazsi, Lajos: *See—*
  - Rainer, Alois; Ulbrich, Walter; and Gazsi, Lajos, 4,706,188, Cl. 364-200.000.
- Gazzaniga, Annibale; Gianesello, Valter; Stroppolo, Federico; and Vigano', Luigi, to Zambon S.p.A. Effervescent composition with analgesic activity. 4,689,218, 8-25-87, Cl. 424-43.000.
- Gazzarrini, Vinicio, to Solis s.r.l. Process and machine for sewing the toes of pantyhoses with feed from a machine for forming pantyhoses and with ejection suitable for a subsequent automated transfer of the product. 4,649,838, 3-17-87, Cl. 112-121.150.
- Gazzarrini, Vinicio, to Solis S.r.l. Machine for sewing gussets on knitted garments of the "pantyhose" type with automatic feed. 4,664,044, 5-12-87, Cl. 112-121.150.
- Gazzi, Luigi, to Snamprogetti, S.p.A. Process for the recovery of heavy constituents from hydrocarbon gaseous mixtures. 4,657,571, 4-14-87, Cl. 62-17.000.
- Gazzi, Luigi; and Rescalli, Carlo, to Snamprogetti, S.p.A. Cryogenic process for the removal of acidic gases from mixtures of gases by using solvents. 4,710,210, 12-1-87, Cl. 62-17.000.
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- Gazzo, John J.: *See—*
  - Elstein, Rick A.; Faret, Svein; and Gazzo, John J., 4,702,475, Cl. 273-1.0GC.
- GBI International Industries, Inc.: *See—*
  - Lapsker, Itzchak, 4,677,793, Cl. 51-251.000.
- GCA Corporation: *See—*
  - Barsky, Samuel M., 4,667,415, Cl. 33-568.000.
  - Batchelder, William T.; Piatt, John A.; and Sautter, Kenneth M., 4,647,172, Cl. 354-298.000.
  - Edmark, Karl W., III, 4,640,619, Cl. 356-372.000.
- Gdaniec, Joseph M.; Sahulka, Richard J.; and Soll, David B., to International Business Machines Corporation. Method for controlling execution of application programs written in high level program language. 4,636,948, 1-13-87, Cl. 364-300.000.
- Gdanski, Ricky D.: *See—*
  - Walker, Michael L.; Ford, William G. F.; Dill, Walter R.; and Gdanski, Ricky D., 4,683,954, Cl. 166-307.000.
- Gdovin, Wm. J.: *See—*
  - Waller, Francis E., 4,638,547, Cl. 29-558.000.
  - Waller, Francis E., 4,639,173, Cl. 409-122.000.
- Gdula, Michael, to General Electric Company. Dynamic memory controller for single-chip microprocessor. 4,649,511, 3-10-87, Cl. 364-900.000.
- GE. SV. IN. S.r.l.: *See—*
  - Grassi, Gino, 4,655,773, Cl. 623-2.000.
- GEA Energiesystemtechnik GmbH & Co.: *See—*
  - Borchert, Werner, 4,688,630, Cl. 165-95.000.
  - Borchert, Werner, 4,694,892, Cl. 165-95.000.
- GEA Luftkuehlergesellschaft Happel GmbH & Co.: *See—*
  - Paikert, Paul, 4,715,432, Cl. 165-110.000.
  - Schulenberg, Heinrich; and Wisse, Otto, 4,685,204, Cl. 29-726.000.
- Geaghan, Bernard O.: *See—*
  - Caprio, A. Ronald; Cyr, John P.; Geaghan, Bernard O.; Kotschenreuther, Paul C.; Schanin, David J.; and Salett, Ronald M., 4,670,855, Cl. 364-900.000.
- Geagley, Bradley: *See—*
  - Sherin, Alan; Geagley, Bradley; and Benest, Glenn, 4,679,797, Cl. 273-251.000.
- Geais, Robert. Railway system utilizing a linear motor for propulsion of trains. 4,709,639, 12-1-87, Cl. 104-292.000.
- Geannopoulos, George; Tsui, Cyrus; Fitzpatrick, Mark; and Chan, Andy, to Monolithic Memories, Inc. Fast and gate with programmable output polarity. 4,638,189, 1-20-87, Cl. 307-465.000.
- Geannopoulos, George L.: *See—*
  - France, Michael G.; Geannopoulos, George L.; Bosnyak, Robe J.; and Chan, Steve Y., 4,684,826, Cl. 307-272.00A.
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- Gearen, Peter F.: *See—*
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- Gearhart Australia Limited: *See—*
  - Tucker, Michael C., 4,633,627, Cl. 52-162.000.
- Gearhart, Dale A., to Gearhart Industries, Inc. Logging device having bimetallic insulating flask. 4,694,166, 9-15-87, Cl. 250-261.000.
- Gearhart Industries, Inc.: *See—*
  - Chemali, Roland E.; and Dirk, William C., 4,646,026, Cl. 324-373.000.
  - Gearhart, Dale A., 4,694,166, Cl. 250-261.000.
  - Knight, Orien M., 4,697,638, Cl. 166-65.100.
  - Maki, Voldi E., Jr., 4,709,357, Cl. 367-35.000.
  - Stokes, Robert L.; and Myrick, Paul, 4,703,804, Cl. 166-311.000.
- Gearhart Tesel Limited: *See—*
  - Bardsley, Frank B.; and Stoddart, David E., 4,676,096, Cl. 73-155.000.
  - Bardsley, Frank B.; and Sycha, Alec B., 4,712,846, Cl. 439-33.0
  - Boxell, Timothy G.; Bardsley, Frank B.; and Stoddart, David E., 4,715,440, Cl. 166-100.000.
- Gearing, Gregory M.: *See—*
  - Cimino, Michael B.; and Gearing, Gregory M., 4,650,733, Cl. 429-153.000.
  - Cimino, Michael B.; and Gearing, Gregory M., 4,700,122, Cl. 320-61.000.
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- Geary, David F.; Flamm, Katherine K.; and Morrison, Frank T., to Baltimore Aircoil Company, Inc. Segmental baffle high performance shell and tube heat exchanger. 4,699,211, 10-13-87, Cl. 165-159.000.
- Geary, David F.: *See—*
  - Flamm, Katherine K.; Gilley, J. Kyle; Geary, David F.; and Sch[illegible]ner, Edward N., 4,691,769, Cl. 165-158.000.
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- Geary, Joseph M.; and Peterson, Phillip R., to United States of America, Air Force. Method of measuring spherical aberration and apparatus therefor. 4,696,569, 9-29-87, Cl. 356-124.000.
- Geary, William C.; and Zabel, Leland M., to Arrow Specialty Company. Thermal siphon adapter. 4,664,071, 5-12-87, Cl. 123-41.10
- Gebald, Georg: *See—*
  - Forner, Siegfried; and Gebald, Georg, 4,657,450, Cl. 40[illegible]-143.00
- Gebald, Gregor: *See—*
  - Gilljam, Hans N.; Chardon, Manfred; Gebald, Gregor; and Illig, Heinz-Peter, 4,702,433, Cl. 242-118.100.
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- Gebauer, Helmut: *See—*
  - Hafner, Walter; Ritter, Peter; Gebauer, Helmut; and Regiert, Marlies, 4,710,316, Cl. 512-20.000.
- Gebeke, Charles D.; and Weavers, Mark W., to Minnesota Mining and Manufacturing Company. Spring mechanism for lid of video cassette 4,642,722, 2-10-87, Cl. 360-132.000.
- Gebel, Rudolf; and Paul, Bernt, to Siemens Aktiengesellschaft. Contact arrangement for vacuum switches. 4,675,483, 6-23-87, Cl. 20[illegible]-144.00B.
- Gebelius, Sven R. Supporting member. 4,648,220, 3-10-87, Cl. 52-155.000.
- Gebelius, Sven R. V. Method for the manufacture of a conical tubular member, and a member manufactured according to the method 4,662,143, 5-5-87, Cl. 52-731.000.
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  - Gettleman, Lawrence; and Gebert, Paul H., 4,661,065, Cl. 433-168.100.
- Gebert, Ulrich: *See—*
  - Furrer, Harald; Anagnostopulos, Hiristo; and Gebert, Ulrich, 4,713,455, Cl. 544-267.000.
- Gebhard Balluff Fabrik Feinmechanischer Erzengeisse GmbH & Co.: *See—*
  - Kammerer, Heinz, 4,652,819, Cl. 324-207.000.
  - Sommer, Gerhard, 4,673,827, Cl. 307-116.000.
  - Vinnemann, Antonius; and Koninger, Veit, 4,678,993, Cl. 324-208.000.

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Gebhardt Fordertechnik GmbH: *See—*
- Gebhardt, Guenter, 4,715,766, Cl. 414-392.000.
- Thomas, Frank; Ruppert, Thomas; and Warmulla, Karl F., 4,689,490, Cl. 250-566.000.

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Gebhardt, Wolfgang, to Taprogge GmbH. Collecting device for cleaning members on a heat exchanger. 4,676,302, 6-30-87, Cl. 165-95.000.

Gebhardt, Wolfgang: *See—*
- Eimer, Klaus; and Gebhardt, Wolfgang, 4,680,113, Cl. 210-181.000.

Gebheim, Gerald C.: *See—*
- McEachern, Richard D.; Jordan, Willie W.; Gebheim, Gerald C., and Robinson, Joe M., 4,714,196, Cl. 239-62.000.

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- Dilcher, Dietmar, 4,669,220, Cl. 49-219.000.
- Horn, Manfred; and Mayer, Franz, 4,685,344, Cl. 74-424.8NA.
- Schindehutte, Manfred, 4,644,692, Cl. 49-213.000.

Gebr. Buhler Nachfolger GmbH: *See—*
- Losch, Dieter, 4,648,693, Cl. 350-636.000.

Gebr. Eickhoff Maschinenfabrik and Eisengiesserei m.b.H.: *See—*
- Schupphaus, Herbert, 4,691,967, Cl. 299-1.000.

Gebr. Fleischmann: *See—*
- Diller, Hans, 4,650,081, Cl. 213-75.0TC.

Gebr. Happich GmbH: *See—*
- Dabringhaus, Volker; Dietz, Gunter; Wegel, Peter; Bowman, H. David; Korber, Jurgen; and Seidl, Horst, 4,676,544, Cl. 296-37.900.
- Dietz, Gunter; and Nowak, Manfred, 4,635,994, Cl. 296-97.00H.
- Dietz, Gunter; Nowak, Manfred; and Kaiser, Klaus-Peter, 4,664,435, Cl. 296-97.00H.
- Dietz, Gunter, 4,668,005, Cl. 296-97.00H.
- Ebert, Charles; Delcroix, Jean L.; Majchrzak, Roland; and Viertel, Lothar, 4,702,513, Cl. 296-97.00H.
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- Irrgang, Manfred, 4,634,565, Cl. 264-510.000.
- Mahler, Gert; Dietz, Gunter; and Falkenroth, Heinz-Jurgen, 4,646,879, Cl. 180-90.000.
- Panzner, Rudolph; and Janz, Joachim, 4,655,498, Cl. 296-97.00H.
- Schlenz, Rolf, 4,634,566, Cl. 264-515.000.
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- Viertel, Lothar; and Kaiser, Klaus-Peter, 4,683,522, Cl. 362-135.000.
- Wolff, Martin, 4,667,979, Cl. 280-752.000.
- Zwirner, Gerhard, 4,696,510, Cl. 296-97.00K.

Gebr. Hennig GmbH: *See—*
- Hennig, Kurt, 4,693,388, Cl. 220-8.000.
- Schneider, Barbara; Hennig, Kurt; and Klein, Manfred, 4,638,722, Cl. 92-42.000.
- Stohr, Albert, 4,700,517, Cl. 52-241.000.

Gebr. Hofmann GmbH & Co. KG Maschinenfabrik: *See—*
- Goebel, Eickhart, 4,694,875, Cl. 157-1.240.
- Himmler, Gunther; and Knoll, Gunter, 4,691,567, Cl. 73-483.000.
- Schulz, Wolfgang; Himmler, Gunther; Knoll, Gunter; and Wenz, Friedrich, 4,676,648, Cl. 356-385.000.

Gebr. Isringhausen: *See—*
- Mischer, Hans-Peter, 4,645,169, Cl. 248-550.000.
- Misher, Hans-Peter; and Pietsch, Helge, 4,638,982, Cl. 267-131.000.

Gebr. Lodige Maschinenbau Gesellschaft mbH: *See—*
- Lucke, Roland; and Balkenhol, Bernhard, 4,674,887, Cl. 366-325.000.

Gebr. Marklin & Cie. GmbH: *See—*
- Rother, Helmut; and Reyher, Manfred, 4,709,856, Cl. 238-10.00E.

Gebr. Marzhauser Wetzlar oHG: *See—*
- Marzhauser, Heinz, 4,700,585, Cl. 74-479.000.

Gebr. St.imel: *See—*
- Oehler, Henry; Peth, Norbert; Holpp, Hans W.; and Sass, Wolfgang, 4,693,017, Cl. 34-58.000.

Gebr. Wahlefeld GmbH & Co. KG: *See—*
- Huppertsberg, Frank, 4,712,513, Cl. 119-96.000.

Gebruder Buhler AG: *See—*
- Brugger, Werner, 4,708,620, Cl. 425-154.000.
- Bruno, Gmur, 4,704,845, Cl. 53-482.000.
- Mueller, Roman, 4,657,773, Cl. 427-4.000.
- Resch, Heinz, 4,635,861, Cl. 241-37.000.
- Schaffner, Hanspeter, 4,711,622, Cl. 425-331.000.

Gebruder Heller GmbH, Werkzeugfabrik: *See—*
- Kleine, Werner, 4,702,651, Cl. 408-226.000.

Gebruder Hoffman AG: *See—*
- Menichetti, Alberto, 4,645,088, Cl. 215-329.000.

Gebruder Honsberg GmbH: *See—*
- Kolblin, Rolf; Schneider, Reinhard; Burgtorf, Heinrich; and Peiss, Klaus, 4,675,977, Cl. 29-568.000.

Gebruder Jauch K.G. Clock Factory: *See—*
- Jauch, Hermann; and Nopper, Kurt, 4,664,532, Cl. 368-273.000.

Gebruder Junghans GmbH: *See—*
- Dinger, Horst; and Moosmann, Horst, 4,683,823, Cl. 102-229.000.
- Dinger, Horst; and Moosmann, Horst, 4,715,281, Cl. 102-216.000.
- Halssig, Andreas; Moosmann, Horst; Winterhalter, Walter; and Westphal, Gunter, 4,653,402, Cl. 102-245.000.
- Moosmann, Horst, 4,694,751, Cl. 102-202.000.
- Winterhalter, Walter; and Halssig, Andreas, 4,691,635, Cl. 102-251.000.

Gebruder Kommerling Kunststoffwerke GmbH: *See—*
- Haffer, Dieter, 4,640,078, Cl. 52-731.000.

Gebruder Linck Maschinenfabrik und Eisengiesserei "Gatterlinck": *See—*
- Reuter, Alfred, 4,691,749, Cl. 144-39.000.
- Reuter, Alfred, 4,711,279, Cl. 144-39.000.

Gebruder Loepfe AG: *See—*
- De Coi, Beat; and Keller, Hans-Peter, 4,700,289, Cl. 364-150.000.

Gebruder Mogler GmbH & Co.: *See—*
- Gaul, Herr K.; Mogler, Herr J.; and Wiedmann, Herr H., 4,684,038, Cl. 222-89.000.

Gebruder Pletscher: *See—*
- Pletscher, Oskar, 4,655,472, Cl. 280-303.000.

Gebruder Sulzer Aktiengesellschaft: *See—*
- Manders, Petrus G. J., 4,669,514, Cl. 139-435.000.
- Nijhuis, Henri G. B. O.; and Toebes, Wilhelmus G., 4,667,705, Cl. 139-439.000.

Gebruder Weiss K. G.: *See—*
- Greeb, Herbert, 4,708,567, Cl. 414-310.000.

Gebruder Welger GmbH & Co. Kommanditgesellschaft: *See—*
- Rohrbein, Jurgen, 4,708,565, Cl. 414-86.000.

Gebrueder Buehler AG: *See—*
- Egger, Friedrich; and Gautschi, Andreas, 4,688,336, Cl. 34-109.000.
- Mueller, Roman, 4,636,305, Cl. 209-312.000.

Gebrueder Mueller Apparatebau GmbH & Co. KG: *See—*
- Mueller, Fritz; and Pienta, Lothar, 4,641,533, Cl. 73-706.000.

GEC Avionics Limited: *See—*
- Ellis, Stafford M., 4,652,747, Cl. 250-231.0SE.
- Ellis, Stafford M.; and Price, Donald R. C., 4,656,421, Cl. 324-244.000.
- Ellis, Stafford M., 4,660,943, Cl. 350-538.000.
- Ellis, Stafford M., 4,684,249, Cl. 356-152.000.
- Ellis, Stafford M., 4,692,840, Cl. 361-393.000.
- Ellis, Stafford M., 4,716,498, Cl. 361-386.000.
- Fitzpatrick, Roger S., 4,635,067, Cl. 343-705.000.
- Howard, Richard K.; and Marshall, Colin K., 4,707,054, Cl. 350-3.650.
- Hunter, Ian; Mason, Graham; and Scorer, Michael, 4,673,298, Cl. 374-122.000.
- Steward, David G., 4,652,870, Cl. 340-705.000.

GECO Geophysical Company Incorporated: *See—*
- Spalding, Philip C., 4,634,804, Cl. 174-24.000.

Geco Well Services A S.: *See—*
- Haukjem, Marten; and Lindtjorn, Olav, 4,660,184, Cl. 367-16.000.

Gecsei, Zoltan: *See—*
- Kolya, Tibor; Szoke, Bela; Kadar, Karoly; Foti, Gyorgy; and Gecsei, Zoltan, 4,655,317, Cl. 181-257.000.

Geczy, Bela, to Smith International, Inc. Tapered friction bearing assembly. 4,657,090, 4-14-87, Cl. 175-92.000.

Geczy, Bela; and DeLucia, Frank, to Smith International, Inc. System and method for controlled directional drilling. 4,667,751, 5-26-87, Cl. 175-61.000.

Geczy, Bela, to Smith International, Inc. Bearing assembly. 4,710,036, 12-1-87, Cl. 384-275.000.

Geddes, Eric J. Video cassette selection machine. 4,647,989, 3-3-87, Cl. 360-55.000.

Geddes, Leslie A.: *See—*
- Tacker, Willis A., Jr.; Bourland, Joe D.; Babbs, Charles F.; and Geddes, Leslie A., 4,708,145, Cl. 128-419.00D.

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- Hammerle, Frederick A.; Allen, Philip M.; Geddes, Richard; and Malone, Gary R., 4,706,868, Cl. 227-149.000.

Geddie, John D. Portable bar. 4,681,244, 7-21-87, Cl. 222-144.500.

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- McMahan, David R.; and Geddie, John D., 4,709,305, Cl. 362-61.000.
- Van Duyn, Paul D.; and Geddie, John D., 4,679,128, Cl. 362-306.000.
- Van Duyn, Paul D.; and Geddie, John D., 4,703,399, Cl. 362-66.000.
- Van Duyn, Paul D.; McMahan, David R.; Geddie, John D.; and Nagengast, William E., Jr., 4,707,771, Cl. 362-66.000.

Gee, Caroline M.; and Thurmond, Gary D., to Hughes Aircraft Company. Compensation for optical damage of directional-coupler switches. 4,690,488, 9-1-87, Cl. 350-96.120.

Gee, David J.: *See—*
- Dye, Denver R.; Gee, David J.; Patterson, Richard L.; and Zielaskiewicz, Stephen M., 4,658,245, Cl. 340-683.000.

Geeck, Joseph S., III. Power mower with blade-brake clutch. 4,696,150, 9-29-87, Cl. 56-11.300.

Geelen, Pierre M. L. Device for cooling a granular product. 4,683,665, 8-4-87, Cl. 34-65.000.

Geels, Daniel P., to Burlington Industries, Inc. Plating using a non-conductive shroud and a false bottom. 4,643,816, 2-17-87, Cl. 204-228.000.

Geen, John A., to British Aerospace PLC. Ring laser gyroscopes. 4,653,920, 3-31-87, Cl. 356-350.000.

Geen, Michael W.; and Eaton, Ralph M., to Plessey Overseas Limited. Diamond heatsink assemblies. 4,649,992, 3-17-87, Cl. 165-185.000.

Geer, Julia S., to Shell Western E&P Inc. Turbine cooling waxy oil. 4,702,758, 10-27-87, Cl. 62-532.000.

Geer, Ralph D.; Morgan, Robert L.; and Senek, Dexter S., to Republic Steel Corporation. Furnace for heating and melting zinc. 4,705,260, 11-10-87, Cl. 266-78.000.

Geering, Emil J., to Occidental Chemical Corporation. Process for preparing methyl chlorosulfates. 4,649,209, 3-10-87, Cl. 558-46.000.

Geering, Emil J.; and Grano, Frank J., to Occidental Chemical Corporation. Container for transporting hazardous chemicals. 4,712,711, 12-15-87, Cl. 220-457.000.

Geering, Hans P.: *See*—

  van Zanten, Anton; Heess, Gerhard; and Geering, Hans P., 4,679,866, Cl. 303-104.000.

Geerings, Michael P. W.; Christis, Wilhelmus J.; Fekkes, Wilhelmus F.; and Schmitz, Herman J. R., to U.S. Philips Corporation. Teletext signal processing circuit for a teletext receiver. 4,697,046, 9-29-87, Cl. 178-1.000.

Geerlings, Steven L., to Prince Corporation. Flux-gate sensor electrical drive method and circuit. 4,677,381, 6-30-87, Cl. 324-253.000.

Geerpres, Inc.: *See*—

  Streit, Kenneth F., 4,643,325, Cl. 220-91.000.

Geerts, Jean-Pierre: *See*—

  Gobert, Jean; Giurgea, Corneliu; Geerts, Jean-Pierre; and Bodson, Guy, 4,696,942, Cl. 514-424.000.

  Gobert, Jean; Geerts, Jean-Pierre; and Bodson, Guy, 4,696,943, Cl. 514-424.000.

Geerts, Wilhelmus H. M.; Stok, Filippus L.; and Tienkamp, Engbert, to U.S. Philips Corporation. Color television camera with test image projector and precompensation means for correcting for imaging errors caused by oblique angles of incidence of test images on pickup elements. 4,709,260, 11-24-87, Cl. 358-51.000.

Geertsema, Eise B.: *See*—

  Bouman, Anton J.; and Geertsema, Eise B., 4,642,520, Cl. 315-73.000.

Geese, Larry L., to Ancra Corporation. Flexible keeper for retaining a hook to an article connected thereto. 4,646,396, 3-3-87, Cl. 24-230.50R.

Geever, James E.: *See*—

  Orlowski, Ronald C.; Seyler, Jay K.; Colescott, Robert L.; Stahl, Glenn L.; Enkoji, Takashi; Geever, James E.; and Flanigan, Everett, 4,659,804, Cl. 530-307.000.

Geffcken, Walter, to Siemens Aktiengesellschaft. Flat gas discharge display. 4,667,130, 5-19-87, Cl. 315-169.400.

Gefitec S.A.: *See*—

  Posso, Patrick P. P., 4,639,052, Cl. 312-333.000.

Gefri, Fred J.; Masilamani, Divakaran; and Murthy, Andiappan K. S., to Allied Corporation. Process for the production of ketones and carbinols. 4,704,480, 11-3-87, Cl. 568-396.000.

Gefri, Fredrick J.: *See*—

  Patel, Kundanbhai M.; Bekker, Alex Y.; Murthy, Andiappan K. S.; and Gefri, Fredrick J., 4,675,097, Cl. 208-112.000.

Gegan, Michael J., to United States of America, Navy. Dual band slotted microstrip antenna. 4,692,769, 9-8-87, Cl. 343-700.0MS.

Gegel, Harold L.: *See*—

  Oberly, Charles E.; Gegel, Harold L.; and Ho, James C., 4,711,825, Cl. 428-614.000.

Gegelys, Anthony A., to E. R. Squibb & Sons, Inc. Incontinence insert. 4,643,726, 2-17-87, Cl. 604-368.000.

Gehalo, David J.: *See*—

  Fisher, Thomas M.; and Gehalo, David J., 4,670,626, Cl. 178-1.000.

Gehart, Edward J.: *See*—

  Hinton, Jonathan W.; Pratt, Donald S.; and Gehart, Edward J., 4,655,984, Cl. 264-314.000.

Gehin, Claude, to Thomson-CSF. Wideband microwave antenna with two coupled sectoral horns and power dividers. 4,667,205, 5-19-87, Cl. 343-783.000.

Gehl Company: *See*—

  Fleming, Philip F., 4,651,936, Cl. 241-222.000.

Gehly, Joel C., to American Sterilizer Company. Multiple source lighting fixture. 4,651,257, 3-17-87, Cl. 362-33.000.

Gehman, John B., to General Dynamics, Electronics Division. Dipole array with phase and amplitude control. 4,641,146, 2-3-87, Cl. 343-814.000.

Gehman, Roland P.; and Martin, Raymond G., to MGS, Inc. Disabled truck tractor recovery unit. 4,708,358, 11-24-87, Cl. 280-402.000.

Gehman, Stacy E.; and Ruddell, Kevin T., to Emhart Industries, Inc. Security system with digital data filtering. 4,672,365, 6-9-87, Cl. 340-539.000.

Geho, W. Blair, to Technology Unlimited, Inc. Treatment for hyperactivity. 4,704,394, 11-3-87, Cl. 514-288.000.

Geho, W. Blair; Lau, John R.; and Jacob, Joseph, to Technology Unlimited, Inc. Diarrheal antitoxin. 4,705,804, 11-10-87, Cl. 514-474.000.

Gehr, Peter: *See*—

  Antes, Gregor; Halder, Mathis; Fuchs, Paul; and Gehr, Peter, 4,685,138, Cl. 382-12.000.

Gehrig, Manfred: *See*—

  Forster, Adrian; and Gehrig, Manfred, 4,640,841, Cl. 426-425.000.

Gehrig, Thomas C.; and Mortemore, David W., to Conagra, Inc. Easily reconstitutable powdered sour-cream-type product. 4,663,178, 5-5-87, Cl. 426-583.000.

Gehring, Fritz, to Lindauer Dornier Gesellschaft mbH. Weft thread braking mechanism having a stepwise controllable braking effect. 4,641,688, 2-10-87, Cl. 139-450.000.

Gehring, Fritz; Roth, Siegfried; and Semrau, Hans-Juergen, to dauer Dornier Gesellschaft mbH. Gripper rod for shuttleless lo 4,690,177, 9-1-87, Cl. 139-449.000.

Gehring, Fritz, to Lindauer Dornier Gesellschaft mbH. Method apparatus for inserting weft threads into the loom shed of shutt looms. 4,702,284, 10-27-87, Cl. 139-446.000.

Gehring, Gerhard, to Siemens Aktiengesellschaft. Circuit arrange for enhancing the utilizable hall-signal of hall sensor. 4,645 2-24-87, Cl. 307-309.000.

Gehring, Johann: *See*—

  Birkle, Siegfried; and Gehring, Johann, 4,668,367, Cl. 204-275

  Birkle, Siegfried; and Gehring, Johann, 4,670,120, Cl. 204-201

  Birkle, Siegfried; and Gehring, Johann, 4,671,862, Cl. 204-213

  Birkle, Siegfried; and Gehring, Johann, 4,696,728, Cl. 204-213

  Birkle, Siegfried; and Gehring, Johann, 4,701,248, Cl. 204-201

Gehring, Karl A.: *See*—

  Turner, David W.; Dixon, Andrew J.; Gehring, Karl A.; Keenlyside, Michael, 4,713,833, Cl. 378-119.000.

Gehring, Kenneth C.; and Rustebakke, Ralph K., to DEC Internatio Inc. Heat pump water heater system. 4,665,712, 5-19-87, 62-325.000.

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Gehring, Reinhold; Klauke, Erich; Schallner, Otto; Stetter, Jorg; S tel, Hans-Joachim; and Schmidt, Robert R., to Bayer Aktienges schaft. Herbicidally active substituted 5-acylamino-1-phe pyrazoles. 4,668,280, 5-26-87, Cl. 71-92.000.

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Gehring, Reinhold; Schallner, Otto; Stetter, Jorg; Santel, Hans-Jo chim; and Schmidt, Robert R., to Bayer Aktiengesellschaft. 1-ary hydrazino-pyrazoles, compositions containing them, and herbic method of using them. 4,685,956, 8-11-87, Cl. 71-92.000.

Gehring, Reinhold; Schallner, Otto; Stetter, Jorg; Lurssen, Kla Santel, Hans-Joachim; and Schmidt, Robert R., to Bayer Akti gesellschaft. 1-aryl-5-iminoaminopyrazoles, compositions contain them, and herbicidal method of using them. 4,685,957, 8-11-87, 71-92.000.

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Gehrke, David E., and Ewald, Hans. Door jamb support. 4,635, 1-13-87, Cl. 49-460.000.

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  Grosse-Scharmann, Franz; Gattermann, Bernd; and Gehr Rudolf, 4,646,941, Cl. 222-23.000.

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Gehrmann, Klaus: *See*—

  Erpenbach, Heinz; Gehrmann, Klaus; Lork, Winfried; and Pr Peter, 4,664,753, Cl. 203-29.000.

Gehrmann, Rainer, to Robert Bosch GmbH. Process and circuit avoiding of nonlinearities and brightening on the picture edge television pick up tubes. 4,709,192, 11-24-87, Cl. 315-371.000.

Gehrt, Louis M., to Emerson Electric Co. Safety device for a centr gal actuator assembly. 4,661,732, 4-28-87, Cl. 310-68.00E.

Gehrt, Louis M., to Emerson Electric Co. Switch assembly for elec cal machinery. 4,686,401, 8-11-87, Cl. 310-68.00E.

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Geiger, David J.; Lee, Sunny; and Busch, Eric, to ITT Corporat Reticle assembly, system, and method for using the same. 4,702, 10-27-87, Cl. 355-53.000.

Geiger, Dietrich: *See*—

  Jaissle, Hans-Ulrich; Hofmann, Manfred; and Geiger, Diet 4,646,421, Cl. 29-568.000.

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Geiger, Erich; and Maier, Gerhard, to Deutsche Thomson Br GmbH. Receiver stage for radio or television receiver. 4,689, 8-25-87, Cl. 455-347.000.

Geiger, Frederick A.: *See*—

  Sheets, Gerald R.; and Geiger, Frederick A., 4,653,781, 285-319.000.

Geiger, Gary E., to Betz Laboratories, Inc. Method for inhib corrosion and deposition in aqueous systems. 4,663,053, 5-5-87 210-699.000.

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Geiger, Hans. Flipper game with varying degrees of difficulty. 4,650,190, 3-17-87, Cl. 273-121.00A.

Geiger, Herbert B.: *See—*
- Smith, David A.; and Geiger, Herbert B., 4,647,031, Cl. 271-82.000.
- Smith, David A.; and Geiger, Herbert B., 4,702,471, Cl. 271-284.000.

Geiger, Jean-Francois, to S.A.M.M.-Societe d'Applications des Machines Motrices. Device for the electric low-voltage driving of a rotatable mass having high inertia and a motor which is part of said device. 4,673,852, 6-16-87, Cl. 318-341.000.

Geiger, John A., to Majestic Industries, Inc. Binder for sheet material. 4,697,945, 10-6-87, Cl. 402-75.000.

Geiger, John T.: *See—*
- Stillman, Neil W.; and Geiger, John T., 4,701,286, Cl. 261-36.100.

Geiger, Michael, to Friedrich Deckel Aktiengesellschaft. Device for changing of tools or the like into the work spindle of a machine tool. 4,637,120, 1-20-87, Cl. 29-568.000.

Geiger, Michael, to Friedrich Deckel Aktiengesellschaft. Device for clamping a machine table or the like on a machine bed. 4,645,173, 2-24-87, Cl. 248-680.000.

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Geiger, Rolf; Gerhards, Hermann; and Kruse, Hansjorg, to Hoechst Aktiengesellschaft. Novel peptides which are active on the central nervous system and have an action on the cholinergic system. 4,696,913, 9-29-87, Cl. 514-15.000.

Geiger, Rolf: *See—*
- Konig, Wolfgang; Geiger, Rolf; Obermeier, Rainer; and Mullner, Hubert, 4,658,016, Cl. 530-330.000.
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Geiger, Wolfgang: *See—*
- Habermann, Wolfgang; Pommer, Ernst-Heinrich; Hammes, Peter; Engelhardt, Hubert; Geiger, Wolfgang; Simmler, Werner; and Huber, Guenther, 4,670,360, Cl. 429-33.000.
- Habermann, Wolfgang; Hammes, Peter; Engelhardt, Hubert; Geiger, Wolfgang; Haltrich, Walter; and Simmler, Werner, 4,696,749, Cl. 210-721.000.
- Kastel, Walter; and Geiger, Wolfgang, 4,640,135, Cl. 73-716.000.

Geigert, John; Liu, Te-Ning E.; and N'timkulu, Thabiso, to Cetus Corporation. Stable haloperoxidase method. 4,707,446, 11-17-87, Cl. 435-132.000.

Geil, James A.: *See—*
- Agdanowski, Ronald T.; Geil, James A.; and Tatro, Bernard J., 4,648,398, Cl. 128-207.180.

Geiling, Wolfgang: *See—*
- Wossner, Felix; and Geiling, Wolfgang, 4,643,011, Cl. 72-113.000.

Geiman, Richard A.: *See—*
- Maas, Lawrence W.; Geiman, Richard A.; and Adams, Charles T., 4,701,254, Cl. 208-26.000.

Geimer, Raymond C., and Tolbert, William R., to Monsanto Company. Cell culture filter apparatus and method. 4,639,422, 1-27-87, Cl. 435-286.000.

Geimuplast Peter Mundt GmbH & Co. KG: *See—*
- Fruth, Rupert; Stemmer, Gottfried; and Pohl, Claus, 4,673,815, Cl. 250-548.000.
- Mundt, Peter; and Neuhold, Arnold, 4,678,525, Cl. 156-73.100.
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Geipel, Werner: *See—*
- Ullrich, Hansjurgen; and Geipel, Werner, 4,648,972, Cl. 210-541.000.

Geis, Charles G.: *See—*
- Boomgaard, Dirk J.; Fetrow, James D.; Geis, Charles G.; Mills, Fred J.; and Neuner, James A., 4,668,465, Cl. 376-216.000.
- Feilchenfeld, Michal M.; and Geis, Charles G., 4,646,012, Cl. 324-208.000.

Geis, Michael W.: *See—*
- Tsaur, Bor-Yeu; Fan, John C. C.; and Geis, Michael W., 4,670,088, Cl. 156-617.00R.

Geise, Heinz-Dieter: *See—*
- Zieger, Dietmar; Pignoni, Anthony R.; Geise, Heinz-Dieter; Fisher, Mike; and Pointer, R. LaVerne, 4,672,481, Cl. 360-14.100.

Geise, Samuel C., to Specialty Tool Co., Inc. Slitting tool. 4,689,920, 9-1-87, Cl. 51-241.00S.

Geisel, Donald J.; Crotty, C. Alan; and Pilarski, Richard J., to Robotics, Inc. Adhesive pump and it's control system. 4,699,575, 10-13-87, Cl. 418-104.000.

Geisen, Harry: *See—*
- Schrader, Jennifer R., and Geisen, Harry, 4,702,523, Cl. 297-485.000.

Geisen, Pierre; Reillaudoux, Jean-Claude; and Ducret, Bernard, to Soprema S.A. Process for producing airtight sealing of buildings. 4,680,913, 7-21-87, Cl. 52-746.000.

Geiser, Friedrich, to Schertler, Siegfried. Shutoff valve. 4,634,094, 1-6-87, Cl. 251-58.000.

Geiser, Jens; and Viaud, Jean, to Deere & Company. Baling machine. 4,648,239, 3-10-87, Cl. 56-341.000.

Geiser, John D., Jr. Bolt action rifle. 4,651,455, 3-24-87, Cl. 42-18.000.

Geiser, Joseph. Protective ear covering. 4,682,374, 7-28-87, Cl. 2-209.000.

Geiser, Markus; and Vandevoir, Claude, to Sameca S.A. Process for loading a lathe with bars to be machined and loading device for carrying out of the process. 4,640,157, 2-3-87, Cl. 82-2.700.

Geiser, Markus; and Vandevoir, Claude, to Sameca S.A. Guide-bar device for multi-spindle lathe. 4,679,470, 7-14-87, Cl. 82-2.700.

Geiser, Peter, to Grapha-Holding AG. Apparatus for accumulating stacks of paper sheets. 4,652,198, 3-24-87, Cl. 414-51.000.

Geiser, Timothy G.: *See—*
- Bridgham, John; Geiser, Timothy G.; Hunkapiller, Michael W.; Kent, Stephen B. H.; Marriott, Mark P.; Ramstad, Paul O.; and Nordman, Eric S., 4,668,476, Cl. 422-62.000.

Geisinger, Klaus: *See—*
- Obrist, Albert; Bartl, Franz T.; and Geisinger, Klaus, 4,664,279, Cl. 215-252.000.

Geisler, Thomas C., to Minnesota Mining and Manufacturing Company. Imageable toner powder. 4,683,191, 7-28-87, Cl. 430-291.000.

Geisler, Thomas C., to Minnesota Mining and Manufacturing Company. Photothermographic element comprising particles each containing silver halide, a silver compound and reducing agent. 4,708,928, 11-24-87, Cl. 430-619.000.

Geiss, Karl-Heinz; Schmied, Bernhard; Raschack, Manfred; Lehmann, Hans-Dieter; Gries, Josef; and Ruebsamen, Klaus, to BASF Aktiengesellschaft. Pyrrol-1-ylphenyldihydropyridazinones, their preparation and their use. 4,710,496, 12-1-87, Cl. 514-183.000.

Geisseler, Max, to Sulzer Brothers Limited. Method and apparatus for producing a substantially cylindrical hollow article. 4,660,756, 4-28-87, Cl. 228-184.000.

Geisser, Peter; Kaiser, Hans P.; and Berger, Franz, to Laboratorien Hausmann AG. Means for handling two solutions which are to be mixed together. 4,715,851, 12-29-87, Cl. 604-82.000.

Geissler, Roland: *See—*
- Osberghaus, Rainer; Brodalla, Dieter; Geissler, Roland; and Bossek, Harald, 4,661,170, Cl. 148-6.270.

Geissler, Ulrich; and Lampas, Heide, to Hoechst Aktiengesellschaft. Radiation-polymerizable composition and process for the application of markings to a printed circuit board. 4,695,527, 9-22-87, Cl. 430-256.000.

Geissler, Ulrich; and Albrecht, Klaus, to Hoechst Aktiengesellschaft. Radiation-polymerizable mixture, copolymer contained therein, and a process for the preparation of the copolymer. 4,705,740, 11-10-87, Cl. 430-288.000.

Geissler, Ulrich: *See—*
- Schnelier, Arnold; and Geissler, Ulrich, 4,699,867, Cl. 430-192.000.

Geissmann, Felix: *See—*
- Thiele, Kurt; Geissmann, Felix; Zirngibl, Ludwig; and Jahn, Ulrich, 4,668,786, Cl. 544-267.000.

Geist, Michael, to BASF Farben & Fasern AG. Heat-hardenable binder mixture. 4,661,410, 4-28-87, Cl. 428-418.000.

Geist, Michael: *See—*
- Batzill, Wolfgang; Dobbelstein, Arnold; Geist, Michael; Schon, Georg; and Ott, Gunther, 4,661,541, Cl. 523-414.000.
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- Diefenbach, Horst; and Geist, Michael, 4,686,249, Cl. 523-410.000.

Geisthardt, Alan C., to Jack Walters & Sons, Corp. Interconnecting of wooden members. 4,679,367, 7-14-87, Cl. 52-233.000.

Geisthoff, Hubert; Buthe, Theo; and Mikeska, Felix, to Jean Walterscheid GmbH. Drawing lock for torque transmitting engagement between two shaft members arrestable in the open position. 4,639,162, 1-27-87, Cl. 403-316.000.

Geisthoff, Hubert, to Jean Walterscheid GmbH. Driveline coupling with safety interlock mechanism latchable in the open position. 4,641,990, 2-10-87, Cl. 403-317.000.

Geisthoff, Hubert; and Buthe, Theo, to Jean Walterscheid GmbH. Protective bellows assembly with plugged lubricating aperture. 4,642,067, 2-10-87, Cl. 464-175.000.

Geisthoff, Hubert: *See—*
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Geiszler, Willard A., Jr., to Philip Morris Incorporated. Adjustable filter cigarette. 4,700,725, 10-20-87, Cl. 131-336.000.

Geithman, Glenn A., to Boeing Company, The. Ultrasonic water jet having electromagnetic interference shielding. 4,646,967, 3-3-87, Cl. 239-4.000.

Geithman, Glenn A.; and Gilbert, Dennis H., to Boeing Company, The. Ultrasonic transducer with shaped beam intensity profile. 4,700,575, 10-20-87, Cl. 73-642.000.

Geitner, Otto: *See—*
- Schieber, Hans; and Geitner, Otto, 4,679,412, Cl. 66-71.000.

Geittner, Peter E. E.: *See—*
- Auwerda, Cornelis P.; Geittner, Peter E. E.; and Lydtin, Hans-Jurgen, 4,714,589, Cl. 427-39.000.

Geka, Toshiaki, to Nippon Thompson Co., Ltd. Direction turning passage of rolling bearing for rectilinear motion. 4,652,147, 3-24-87, Cl. 384-43.000.

Geka, Toshiaki, to Nippon Thompson Co., Ltd. Linear motion roller bearing assembly having a roller separator. 4,687,345, 8-18-87, Cl. 384-44.000.

Geka-Werk Reinhold Klein K.G.: *See—*
- Rebel, Joachim, 4,655,523, Cl. 339-40.000.

Geke, Juergen; and Rutzen, Horst, to Henkel Kommanditgesellschaft auf aktien. Cationic surfactants based on quaternary ammonium compounds and methods of using same. 4,678,605, 7-7-87, Cl. 252-547.000.

Geke, Juergen; and Penninger, Josef, to Henkel Kommanditgesellschaft auf Aktien. Benzoyl alanines and their use as corrosion inhibitors. 4,686,084, 8-11-87, Cl. 422-17.000.

Geke, Juergen: *See—*
  Struve, Alfred; Upadek, Horst; and Geke, Juergen, 4,705,666, Cl. 422-16.000.

Gelabert, Andres, to Jeumont-Schneider Corporation. Fail-safe "AND" gate using capacitor discharge through a transformer. 4,636,660, 1-13-87, Cl. 307-442.000.

Gelardi, Anthony L.; Pruneau, Diane; and Rolfe, Richard, to Shape Inc. Separate tape guide for a continuous loop tape cassette. 4,655,408, 4-7-87, Cl. 242-55.19A.

Gelardi, Anthony L.; and Swinburne, Stephen G., to Shape Inc. Wiper spring assembly for the fabric liner of a floppy disc. 4,677,517, 6-30-87, Cl. 360-133.000.

Gelardi, Anthony L., to Shape Inc. Leader tape staking rod and related method of assembly. 4,694,557, 9-22-87, Cl. 29-525.000.

Gelardi, Anthony L.: *See—*
  Swinburne, Stephen G.; and Gelardi, Anthony L., 4,685,017, Cl. 360-133.000.

Gelardi, Paul J.; Lindberg, Terry D.; and Snyder, Connie M., to Shape Inc. Coined reel leaf spring for a video tape cassette. 4,662,579, 5-5-87, Cl. 242-199.000.

Gelb, Alan, to Physical Sciences Inc. Process for generating chlorine and caustic soda using a membrane electrolysis cell coupled to a membrane alkaline fuel cell. 4,647,351, 3-3-87, Cl. 204-98.000.

Gelbaum, Leslie: *See—*
  Haugwitz, Rudiger D.; Narayanan, Venkatachala L.; Zalkow, Leon H.; Deutsch, Howard M.; and Gelbaum, Leslie, 4,670,461, Cl. 514-410.000.

Gelbert, Horst; Grimm, Walter; Kiessling, Michael; Newiger, Winifred; Walch, Wolfgang; and Werner, Hans, to Klimsch & Co KG. Apparatus for exposure of both sides of printed circuit plates. 4,666,294, 5-19-87, Cl. 355-89.000.

Gelbman, Lawrence F. Concrete block additive and improved concrete blocks produced therewith. 4,673,437, 6-16-87, Cl. 106-97.000.

Gelco Grouting Service: *See—*
  Waring, Stephen T., 4,655,638, Cl. 405-107.000.

Gelderie, Udo: *See—*
  Breuer, Kornelia; Gelderie, Udo; Holzer, Gerhard; and Raedisch, Helmer, 4,684,694, Cl. 524-730.000.

Gelderloos, Pouwel J., to Nederlandse Centrale Organisatie Voor Toegepast Natuurwetenschappelijk Onderzoek. Method of operating an absorption heat pump or refrigerator, and an absorption heat pump or refrigerator. 4,691,525, 9-8-87, Cl. 62-101.000.

Geldiay, Vedat: *See—*
  Axelby, George S.; Geldiay, Vedat; and Moulds, Clinton W., III, 4,663,703, Cl. 364-149.000.

Geldmacher, Horst: *See—*
  Langhoff, Josef; Krischke, Hermann; Geldmacher, Horst; Golomb, Manfred; Kamp, Karl-Heinz; Masuch, Peter; and Chalupnik, Rolf, 4,715,809, Cl. 431-170.000.

Geldner, Ernst, to Siemens Aktiengesellschaft. Rotary anode X-ray tube. 4,658,414, 4-14-87, Cl. 378-132.000.

Geldwerth, Simon, to Do-All Jewelry Mfg. Co., Inc. Reinforced jewelry clasp. 4,697,315, 10-6-87, Cl. 24-616.000.

Geldwerth, Simon, to Do-All Jewelry Mfg. Co., Inc. Streamlined unobstrusive jewelry clasp, members forming same and blank. 4,713,865, 12-22-87, Cl. 24-616.000.

Geleyns, Eduard A.: *See—*
  Degrauwe, Dirk M.; and Geleyns, Eduard A., 4,647,482, Cl. 427-420.000.

Gelfand, David H.; Chang, Shing; and Wong, Hing C., to Cetus Corporation. Polypeptide expression using a portable temperature sensitive control cassette with a positive retroregulatory element. 4,666,848, 5-19-87, Cl. 435-253.000.

Gelfand, David H.; and Lawyer, Frances C., to Cetus Corporation. Portable temperature-sensitive control cassette. 4,711,845, 12-8-87, Cl. 435-68.000.

Gelfand, Peter C.; Piulle, Walter V.; and Rettenmaier, Louis F. Ionizer assembly having a bell-mouth outlet. 4,692,174, 9-8-87, Cl. 55-129.000.

Gelfand, Valery A., to Western Geophysical Company of America. Method for seismic lithologic modeling. 4,679,174, 7-7-87, Cl. 367-73.000.

Gelfand, Valery A., to Western Geophysical Company of America. Noise-attenuating streamer-cable bulkhead. 4,694,436, 9-15-87, Cl. 367-20.000.

Gelhard, Egon. Device for the contactless coupling of the control and output currents between the electronic elements on the locking cylinder and the electronic elements in the key of an electro/mechanical locking device. 4,663,952, 5-12-87, Cl. 70-278.000.

Gelinas, W. Robert: *See—*
  McKrell, Richard L.; Gelinas, W. Robert; and Brovman, Yakov Z., 4,643,090, Cl. 101-218.000.

Gelinas, William A.; Holtz, Edwin R.; Argazzi, Dennis J.; Smigel, Robert L.; and Wiley, Dan W., to Loctite Corporation. Process for bonding a core member to a housing member. 4,661,190, 4-28-87, Cl. 156-273.500.

Gelinas, William A.; and McDermott, Robert N., to Loctite Corporation. Variable flow rate dispensing valve assembly. 4,678,100, 7-7-87, Cl. 222-52.000.

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Geller, Bernard D.; and Zaghloul, Amir I., to Communications Sate Corporation. General technique for the integration of MIC/MM with waveguides. 4,636,753, 1-13-87, Cl. 333-26.000.

Geller, Douglas A.: *See—*
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Geller, Edward; Kirby, Mike; Mercer, John; O'Hanlon, Tom; Re man, Jim; Theimer, Ken; and Svendsen, Robert, to FlowMole Co ration. Method and apparatus for installment of underground util 4,674,579, 6-23-87, Cl. 175-45.000.

Geller, Heinrich; Nold, Peter; Schermer, Heinz; and Rave, Ortwi Didier-Werke AG. Molten metal immersion pouring spout. 4,640, 2-3-87, Cl. 222-603.000.

Geller, Paul. Disposable aseptic sheath for dental handpieces. 4,693, 9-15-87, Cl. 433-116.000.

Geller, Richard: *See—*
  Delaunay, Marc; Gualandris, Rene; Geller, Richard; Jacq Claude; Ludwig, Paul; Mathonnet, Jean-Marc; Rocco, Je Claude; Sermet, Pierre; Zadworny, Francois; and Bourg, Fr cois, 4,638,216, Cl. 315-111.810.

Gellermann, Werner; Yang, Yihong; and Luty, Fritz, to University Utah. Solid state vibrational lasers using F-center/molecular-def pairs in alkali halides. 4,638,485, 1-20-87, Cl. 372-42.000.

Gellermann, Werner: *See—*
  Luty, Fritz; and Gellermann, Werner, 4,672,619, Cl. 372-42.00

Gellerson, Walter G., to Dowty Decoto, Inc. Hydraulic fuse. 4,655, 4-7-87, Cl. 137-493.000.

Gellert, Dale A.: *See—*
  Weisman, Paul T.; Houghton, Dawn I.; and Gellert, Dale 4,673,402, Cl. 604-368.000.

Gellert, Jobst U. Composite plate method of manufacturing injec molding manifold. 4,648,546, 3-10-87, Cl. 228-161.000.

Gellert, Jobst U. Manufacturing method for selected gate configura injection molding nozzles. 4,663,811, 5-12-87, Cl. 29-157.00C.

Gellert, Jobst U. Valve gated probe. 4,669,971, 6-2-87, Cl. 425-549.

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Gellman, Aaron J.: *See—*
  Boldridge, Austin, Jr.; Buell, Scott; and Graham, James 4,712,092, Cl. 340-365.00A.

Gelman, Robert A., to Hercules Incorporated. Novel salts of carbo methylcellulose. 4,650,716, 3-17-87, Cl. 428-402.000.

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Gelman, Robert M.: *See—*
  Berlin, Edwin P., Jr.; Gardner, Geoffrey Y.; Gelman, Robert and Gershowitz, Michael N., 4,677,576, Cl. 364-522.000.

Gelman Sciences, Inc.: *See—*
  Henke, Arthur, 4,676,771, Cl. 604-4.000.

Gelo, Mark: *See—*
  Becker, David; and Gelo, Mark, 4,667,523, Cl. 73-866.500.
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Gelo, Mark A.; Hirshberg, Moshe J.; and Goldring, Lionel S., to O Research, Inc. Fluid electrode and method of making. 4,661, 4-28-87, Cl. 204-420.000.

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Geloen, Roland A. E. Process and apparatus for preparing a fil material, particularly for an article giving body protection. 4,693, 9-15-87, Cl. 428-6.000.

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Gelsdorf, Gunter: *See—*
  Hlawatschek, Hartmut; Leistner, Hans; and Gelsdorf, Gun 4,648,097, Cl. 373-93.000.

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  Murphy, Glenn L.; Borona, Russell T.; and Gelzheiser, Franc 4,713,640, Cl. 335-194.000.

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  - Benoit, Roland A., 4,694,519, Cl. 5-200.00C.
- Gema Bauelemente AG: *See—*
  - Neuser, Udo, 4,665,669, Cl. 52-204.000.
- Gema, S.A.: *See—*
  - Palomo-Coll, Alberto; Cabre-Castellvi, Juan; and Palomo-Coll, Antonio L., 4,659,814, Cl. 540-355.000.
- Gemco Ware, Inc.: *See—*
  - Jay, Murray, 4,633,773, Cl. 99-426.000.
- Gemcor Engineering Corp.: *See—*
  - Andrews, Mark J., 4,693,646, Cl. 409-136.000.
  - Davern, John W.; and Cook, Daniel D., 4,645,112, Cl. 227-112.000.
- Gemert, Barry V., to PPG Industries, Inc. Sulfamoyl urea derivatives. 4,696,695, 9-29-87, Cl. 71-92.000.
- Gemma, Hideaki; and Hino, Masafumi, to Hitachi, Ltd. Polling control method and system. 4,638,428, 1-20-87, Cl. 364-200.000.
- Gemma, Joseph A. Storage assembly. 4,657,317, 4-14-87, Cl. 312-198.000.
- Gemmer, Ludwig: *See—*
  - Beisner, Klaus; Gemmer, Ludwig; Zisselmar, Raimund; and Kellerwessel, Hans, 4,703,897, Cl. 241-24.000.
- Gemmi, Alfredo: *See—*
  - Clementini, Luciano; Camprincoli, Pierpaolo; Marcaccioli, Enzo; and Gemmi, Alfredo, 4,671,986, Cl. 428-216.000.
- Gempe, Horst A.: *See—*
  - Adams, Victor J.; Black, James R.; and Gempe, Horst A., 4,645,551, Cl. 156-82.000.
- Gemra, Richard J., to AT&T Technologies, Inc. Conductor splicing devices. 4,634,205, 1-6-87, Cl. 339-97.00P.
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- Gen, Tamar G.; and Cydzik, Edward A., to Raychem Corporation. Soldering methods and devices. 4,667,869, 5-26-87, Cl. 228-103.000.
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  - Picken, Harry B., 4,643,933, Cl. 428-116.000.
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  - Ngian, Ho Y.; and Lay, Yeo C., 4,651,469, Cl. 49-223.000.
- Genaro, Donald M.: *See—*
  - Conner, James M.; Harden, Daniel K.; and Genaro, Donald M., 4,648,867, Cl. 604-14.000.
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  - Eguchi, Kiyoshi; Ishikawa, Takayoshi; Tamaru, Shigemi; Genba, Yasushi; and Sera, Tsutomu, 4,655,538, Cl. 339-255.00P.
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  - Fujii, Hiroshi; Iio, Tsukasa; Genba, Yasusi; Moriwaki, Hideaki; and Mochizuki, Yoshinori, 4,716,265, Cl. 200-144.00R.
- Genbauffe, Francis S.; Erdelsky, Joseph J.; and Shopsky, Harvey J., to Robertshaw Controls Company. Propellant storage construction, parts therefor and methods of making the parts. 4,662,393, 5-5-87, Cl. 137-613.000.
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  - Nolf, Jean-Marie E.; Genbrugge, Hubert; Buekers, Valere; Mendes, Luiz N.; Doucet, Jos; and Vansant, Jan, 4,648,168, Cl. 29-447.000.
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- Genco, Louis V.: *See—*
  - Task, Harry L., and Genco, Louis V., 4,687,338, Cl. 356-446.000.
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  - Terranova, Victor P.; Wikesjo, Ulf M. E.; Genco, Robert J.; Hic, Susanne; and Lyall, Raymond M., 4,702,734, Cl. 604-54.000.
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  - Bocchinfuso, Peter, 4,702,039, Cl. 49-490.000.
  - Bogdany, John, 4,634,730, Cl. 524-425.000.
  - Brown, Robert L.; and Aylies, Sargeant E., 4,648,935, Cl. 156-577.000.
  - Fabris, Hubert J.; Melby, Earl G.; Chihara, Kohji Y.; and Cocain, Harry W., 4,676,995, Cl. 427-54.100.
  - Hargis, Ivan G.; Fabris, Hubert J.; Livigni, Russell A.; Aggarwal, Sundar L.; Thomas, George B.; and Wilson, John A., 4,669,518, Cl. 152-209.00R.
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  - Palombo, James L.; and Miller, Richard L., 4,675,349, Cl. 523-351.000.
  - Sharma, Satish C., 4,680,228, Cl. 428-378.000.
  - Sommer, John G., 4,676,922, Cl. 252-182.000.
  - Stamper, Richard W.; and Hultz, Robert C., 4,666,761, Cl. 428-215.000.
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- Gendelman, Mikhail A.; Borodulin, Anatoly F.; Golubeva, Diana F.; and Bychkov, Sergei V., to Klimovskoe Spetsialnoe Konstruktorskoe Bjuro Po Proektirovaniju Tkatskogo Oborudovania. Loom reed. 4,694,867, 9-22-87, Cl. 139-192.000.
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  - Gray, Donald R.; Green, Lawrence R., III; Gendler, Robert L.; and Carrott, John A., 4,651,157, Cl. 342-457.000.
- Gendreau, Johnny P.: *See—*
  - Ferris, Donald L.; Gendreau, Johnny P.; and Korzun, Alexander, 4,688,993, Cl. 416-114.000.
- Gendreau, Paul M.; Llort, Francisco M.; and Berard, Raymond A., to Acushnet Company. Process for curing a polymer and product thereof. 4,692,497, 9-8-87, Cl. 525-263.000.
- Gendreau, Paul M.: *See—*
  - Llort, Francisco M.; Gendreau, Paul M.; and Berard, Raymond A., 4,715,607, Cl. 273-218.000.
- Gendron, Kevin: *See—*
  - Galle, Edward M., Jr.; Gendron, Kevin; and Berner, Paul C., Jr., 4,691,780, Cl. 166-348.000.
- Geneco Inc.: *See—*
  - Guthery, B. Eugene, 4,704,102, Cl. 604-28.000.
- Genencor, Inc.: *See—*
  - Arbige, Michael V.; and Neubeck, Clifford E., 4,636,468, Cl. 435-198.000.
- Genentech, Inc.: *See—*
  - Aggarwal, Bharat B.; and Lee, Sang He, 4,650,674, Cl. 424-85.000.
  - Bochner, Barry R.; Olson, Kenneth C.; and Pai, Rong-Chang, 4,680,262, Cl. 435-68.000.
  - Goeddel, David V.; and Heyneker, Herbert L., 4,634,677, Cl. 435-317.000.
  - Goeddel, David V.; and Heyneker, Herbert L., 4,658,021, Cl. 530-399.000.
  - Goeddel, David V., 4,678,751, Cl. 435-243.000.
  - Heinrich, William P.; and Leopoldi, Norbert, 4,694,581, Cl. 33-169.00R.
  - Itakura, Keiichi; and Riggs, Arthur D., 4,704,362, Cl. 435-253.000.
  - Kleid, Dennis G.; Nayak, Debi P.; and Davis, Alan R., 4,659,669, Cl. 435-243.000.
  - Kleid, Dennis G.; Yansura, Daniel G.; Heyneker, Herbert L.; and Miozzari, Giuseppe F., 4,663,283, Cl. 435-91.000.
  - Levinson, Arthur D.; and Simonsen, Christian C., 4,713,339, Cl. 435-240.200.
  - Palladino, Michael A., 4,714,674, Cl. 435-18.000.
  - Seeburg, Peter H., 4,665,160, Cl. 530-399.000.
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  - Trumley, Richard L., 4,640,061, Cl. 52-71.000.
- General American Transportation Corporation: *See—*
  - Curry, Jay M.; Gray, Edward R.; Davis, Edward L.; Rollo, Edward J., Jr.; and Long, Paul D., Jr., 4,664,307, Cl. 228-145.000.
  - Davis, Edward L., 4,664,038, Cl. 105-308.100.
  - Mowatt-Larssen, Erling, 4,711,274, Cl. 141-5.000.
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  - Dandona, Amar S.; and Luzader, Rex E., 4,689,281, Cl. 429-89.000.
  - Preg, Robert; and Hartman, James, 4,672,167, Cl. 219-117.100.
  - Stewart, Jim L., 4,684,872, Cl. 320-45.000.
  - Stewart, Jimmy L., 4,684,887, Cl. 324-158.00R.
- General Binding Corporation: *See—*
  - Azzato, Robert N., 4,652,013, Cl. 281-46.000.
  - Scharer, Roger M., 4,645,399, Cl. 412-16.000.
- General Chemical Corporation: *See—*
  - Daley, William D.; and Jaffe, James, 4,643,887, Cl. 423-533.000.
  - Weslowski, Robert G., 4,643,825, Cl. 210-188.000.
- General Clutch Corporation: *See—*
  - Rude, Edward T., 4,697,630, Cl. 160-177.000.
- General Coatings: *See—*
  - Sonck, Willy, 4,696,597, Cl. 405-12.000.
- General Communications, Inc.: *See—*
  - Haugen, Per; Haugen, Harold M.; and De Jong, Ingolf J. C., 4,702,046, Cl. 52-144.000.
- General Company Limited: *See—*
  - Ueyama, Seiji, 4,688,057, Cl. 503-204.000.
  - Ueyama, Seiji, 4,698,268, Cl. 428-484.000.
  - Ueyama, Seiji; and Onoe, Hiroyasu, 4,707,395, Cl. 428-212.000.
  - Yamahata, Takashi, 4,689,274, Cl. 428-522.000.
- General Connectors Corporation: *See—*
  - Affa, Steven N.; Newman, Ira R.; and Allison, Robert S., 4,691,741, Cl. 138-113.000.
- General Datacomm, Inc.: *See—*
  - Jordan, Paul A., 4,692,639, Cl. 307-449.000.
  - Manning, David J., 4,710,920, Cl. 370-100.000.
  - Robinson, Jeffrey I., 4,667,180, Cl. 340-347.0AD.
  - Robinson, Jeffrey I., 4,689,607, Cl. 340-347.0AD.
  - Robinson, Jeffrey I., 4,691,190, Cl. 340-347.0AD.
- General Defense Corporation: *See—*
  - Campoli, Ralph F., 4,640,195, Cl. 102-430.000.
- General Dispensing Systems Limited: *See—*
  - Young, Michael J. R., 4,648,557, Cl. 239-102.200.
  - Young, Michael J. R., 4,653,525, Cl. 137-238.000.
- General Dynamics Corporation: *See—*
  - Bradfield, Ganey W.; and Cragin, Glynn P., Jr., 4,709,880, Cl. 244-12.500.
  - Gilmore, Robert L., 4,649,733, Cl. 72-479.000.
  - Smith, Donald F., 4,688,321, Cl. 29-559.000.

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  - Bodle, John G.; and Lungerhausen, Charles C., 4,653,951, Cl. 403-92.000.
  - Hujsak, Edward J., 4,635,885, Cl. 244-169.000.
  - Hujsak, Edward J.; and Siden, Leroy E., 4,667,907, Cl. 244-158.00R.
  - Mons, Barend; Flowers, Donald H.; and Henderson, Robert L., 4,700,307, Cl. 364-453.000.
- General Dynamics Corp. Space Systems Division: *See—*
  - Noto, Vincent H., 4,656,049, Cl. 427-10.000.
- General Dynamics, Electronics Division: *See—*
  - Gehman, John B., 4,641,146, Cl. 343-814.000.
  - Hosking, Michael B., 4,686,608, Cl. 361-428.000.
  - Mathis, Ronald F., 4,695,790, Cl. 324-77.00K.
- General Dynamics Land Systems, Inc.: *See—*
  - Cory, Robert M., 4,700,992, Cl. 305-51.000.
  - Wohler, Johann F., 4,682,528, Cl. 89-1.300.
- General Dynamics, Pomona Division: *See—*
  - Beckner, Frederick L.; Hulderman, Garry N.; and Ingram, Darrell K., 4,647,873, Cl. 331-4.000.
  - Branigan, John T.; and Malaise, Jacques J., 4,698,638, Cl. 343-725.000.
  - Branigan, John T.; and Vess, David J., 4,712,110, Cl. 343-779.000.
  - Dugan, William P., 4,647,851, Cl. 324-158.00P.
  - Dugan, William P., 4,649,338, Cl. 324-158.00P.
  - Giancola, Vincent; and Borseth, Edward M., 4,645,994, Cl. 318-649.000.
  - Hui, Kenneth H.; Mak, King C.; and Hardesty, David G., 4,660,170, Cl. 364-900.000.
  - Inglis, Ronald T., 4,673,146, Cl. 244-3.230.
  - Kline, Mark L.; and Ross, Oakley G., 4,647,778, Cl. 250-352.000.
  - Long, Stuart G.; and Maciocia, Michael J., 4,677,809, Cl. 53-427.000.
  - Long, Stuart G.; and Maciocia, Michael J., 4,707,414, Cl. 428-511.000.
  - MacNeil, Douglas E., 4,715,526, Cl. 228-219.000.
  - Marshall, George C., Jr., 4,685,859, Cl. 414-590.000.
  - Maudal, Inge; and Moss, John F., 4,648,567, Cl. 244-3.240.
  - Maudal, Inge, 4,674,029, Cl. 364-148.000.
  - Piesik, Edward T., 4,683,798, Cl. 89-1.816.
  - Piesik, Edward T., 4,685,533, Cl. 181-213.000.
  - Piesik, Edward T., 4,686,884, Cl. 89-1.816.
  - Piesik, Edward T., 4,709,780, Cl. 181-213.000.
  - Reh, Kim R., 4,672,838, Cl. 73-9.000.
  - Ross, Oakley G.; Kline, Mark L.; and Wedertz, Larry D., 4,648,926, Cl. 156-158.000.
  - Schlunt, Richard S., 4,651,297, Cl. 364-822.000.
  - Schlunt, Richard S.; and Fetterly, Donald R., 4,669,054, Cl. 364-822.000.
  - Shores, Marvin W., 4,709,121, Cl. 174-35.00R.
  - Wedertz, Larry D., 4,667,899, Cl. 244-49.000.
  - Wedertz, Larry D.; Ross, Oakley G.; and Kristedja, David H., 4,688,040, Cl. 342-3.000.
  - Wedertz, Larry D.; and Swann, Lynn J., 4,708,304, Cl. 244-3.260.
  - Wong, Joseph S., 4,701,727, Cl. 333-204.000.
- General Electric: *See—*
  - Patterson, Dwight J., 4,714,737, Cl. 524-611.000.
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  - Abolins, Visvaldis; Goossens, John C.; Holub, Fred F.; and Lee, Gim F., Jr., 4,661,560, Cl. 525-68.000.
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  - Abolins, Visvaldis; and Morelli, Thomas A., 4,681,906, Cl. 524-166.000.
  - Abolins, Visvaldis, 4,692,490, Cl. 524-371.000.
  - Adams, Glen O.; Sturgeon, Gerald E.; and Scheldorf, Gary O., 4,664,608, Cl. 418-63.000.
  - Ades, Adrian R.; and Schmidt, George S., 4,635,336, Cl. 29-252.000.
  - Adler, Michael S.; and Gray, Peter V., 4,656,493, Cl. 357-23.400.
  - Albright, Donald R.; Jones, William D.; and Nelson, Doran W., 4,667,148, Cl. 324-51.000.
  - Alexander, George E.; and Wilkinson, Stanley B., 4,686,601, Cl. 361-80.000.
  - Allen, Deborah L., 4,663,378, Cl. 524-267.000.
  - Allen, Richard B.; and Avakian, Roger W., 4,683,247, Cl. 521-91.000.
  - Alley, Robert P.; Bicknell, William H.; and Routh, Kevin C., 4,663,569, Cl. 315-175.000.
  - Alley, Robert P., 4,682,083, Cl. 315-307.000.
  - Alley, Robert P.; and Bicknell, William H., 4,701,680, Cl. 315-287.000.
  - Anderson, Thomas E.; and Howell, Edward K., 4,636,906, Cl. 361-13.000.
  - Andrews, Edward W.; and Schley, Roy A., 4,701,795, Cl. 358-150.000.
  - Anthony, Blair T.; and Olson, Daniel R., 4,636,408, Cl. 427-160.000.
  - Anthony, Thomas R., 4,647,476, Cl. 427-97.000.
  - Anthony, Thomas R., 4,660,063, Cl. 357-25.000.
  - Anthony, Thomas R.; Lindner, Philip A.; and Tucker, Jewell G., 4,695,760, Cl. 313-348.000.
  - Archer, William R., 4,686,436, Cl. 318-254.000.
  - Archibald, James B.; and Rink, Frederick J., Jr., 4,642,498, Cl. 310-71.000.
  - Axelrod, Robert J.; and Cooper, Glenn D., deceased, 4,680,342, Cl. 525-132.000.
  - Aycock, David F.; and Ting, Sai-Pei, 4,642,358, Cl. 549-245.00
  - Bagepalli, Bharat S.; Imam, Imdad; and Howell, Edward 4,656,445, Cl. 335-195.000.
  - Balch, Edgar T.; Bilski, Richard E.; and Kumar, Ajith 4,634,887, Cl. 290-3.000.
  - Baliga, Bantval J., 4,641,174, Cl. 357-58.000.
  - Baliga, Bantval J., 4,645,957, Cl. 307-570.000.
  - Baliga, Bantval J.; and Adler, Michael S., 4,663,547, 307-570.000.
  - Balke, Roy L.; Merrifield, Charles H.; and Mizikowski, Frank 4,710,662, Cl. 310-204.000.
  - Bamberger, Eric N.; Clark, John C., Jr.; and Nahm, Alexander 4,659,241, Cl. 384-625.000.
  - Banfi, Claudio, 4,695,690, Cl. 200-147.00R.
  - Bantel, Thomas E.; Lahrman, David F.; and Halase, John F. 4,634,291, Cl. 374-7.000.
  - Bantel, Thomas E.; and Mack, David C., 4,644,162, Cl. 250-340.0
  - Barfod, Jesper M., 4,652,758, Cl. 250-363.00S.
  - Barito, Robert W.; and Downs, Kenneth L., 4,636,415, 428-68.000.
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  - Bates, Gary M.; Chambers, Gregory R.; and Ting, Sai-P 4,681,915, Cl. 525-148.000.
  - Bates, Gary M.; Haaf, William R.; and Ting, Sai-Pei, 4,684,696, 525-68.000.
  - Battista, Richard A.; Bennett, James G., Jr.; Kokoszka, John J. Tungate, Freddie L., 4,661,638, Cl. 568-804.000.
  - Bayer, Eric W., 4,698,277, Cl. 428-141.000.
  - Bedard, James F.; and Jaswa, Vijay C., 4,644,498, Cl. 364-900.0
  - Bedard, James F.; and Jaswa, Vijay C., 4,683,570, Cl. 371-36.0
  - Beers, Melvin D., 4,680,363, Cl. 528-14.000.
  - Beers, William W.; and Parham, Thomas G., 4,638,214, 313-487.000.
  - Belanger, Barry F.; Liu, Thomas P. L.; and Lambert, Thomas W 4,700,058, Cl. 250-205.000.
  - Belke, Robert E., Jr.; Shirk, Raymond A.; Lin, Hsiu H., and Zaraysek, Louis, 4,679,122, Cl. 361-414.000.
  - Bennett, James G., Jr.; and Tungate, Freddie L., 4,677,089, 502-159.000.
  - Berdahl, Donald R., 4,665,112, Cl. 524-111.000.
  - Berdahl, Donald R.; Nye, Susan A.; and Yeager, Gary W 4,668,739, Cl. 525-132.000.
  - Bergman, Charles T., 4,641,823, Cl. 269-322.000.
  - Bessler, Warren F., 4,667,480, Cl. 62-180.000.
  - Betts, Joseph E.; and Holub, Fred F., 4,680,229, Cl. 428-389.0
  - Beutel, Robert C., 4,638,220, Cl. 315-411.000.
  - Bianchi, Julio J., 4,659,985, Cl. 324-116.000.
  - Bilac, Mario M.; Dougherty, John J.; Purkayastha, Indrajit Premerlani, William J., 4,672,501, Cl. 361-96.000.
  - Blair, Lawrence W.; and Bryans, Alexander C., 4,653,976, 415-1.000.
  - Bloom, Daniel M.; Buccilli, Joseph A.; and Belentepe, Yilmaz 4,656,386, Cl. 313-113.000.
  - Boenitz, Maurice J., 4,668,931, Cl. 336-212.000.
  - Boomgaarden, Jonathan C.; Bautista, Bruce Q.; Davis, Charles and Frank, Steven R., 4,651,337, Cl. 378-177.000.
  - Bose, Bimal K., 4,707,650, Cl. 318-685.000.
  - Bose, Bimal K.; and Szczesny, Paul M., 4,713,594, Cl. 318-685.0
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  - Bottomley, Paul A., 4,636,730, Cl. 324-318.000.
  - Bottomley, Paul A.; and Schenck, John F., 4,641,09 324-318.000.
  - Bottomley, Paul A., 4,647,858, Cl. 324-320.000.
  - Bottomley, Paul A.; Edelstein, William A.; Hart, Howard R., Jr. Schenck, John F.; Redington, Rowland W.; and Leue, William M., 4,689,563, Cl. 324-309.000.
  - Boutni, Omar M.; and Liu, Ping Y., 4,638,033, Cl. 525-67.000.
  - Boutni, Omar M.; and Liu, Ping Y., 4,656,225, Cl. 525-67.000.
  - Boutni, Omar M., 4,663,391, Cl. 525-146.000.
  - Boutni, Omar M., 4,686,256, Cl. 524-318.000.
  - Boutni, Omar M., 4,707,511, Cl. 524-311.000.
  - Bowles, Patrick J.; Garrett, Lloyd W.; Howard, John V.; and He Robert F., Sr., 4,643,663, Cl. 425-406.000.
  - Boyd, John H., Jr.; and Muller, Alexander, 4,636,936, 364-148.000.
  - Boyd, John H., Jr., 4,642,497, Cl. 310-68.00R.
  - Boyd, John H., Jr.; and Muller, Alexander, 4,642,536, 318-254.000.
  - Boyd, John H., Jr., 4,685,201, Cl. 29-596.000.
  - Bradley, Irving; and Moore, Paul A., 4,658,178, Cl. 313-113.000
  - Bradley, Irving; and Hanson, James M., 4,674,017, Cl. 362-349.00
  - Bradshaw, Kenneth M., 4,638,252, Cl. 324-318.000.
  - Brahmavar, Subhash M.; and Litch, Ernest W., III, 4,687,977, 318-492.000.
  - Breen, Thomas B., 4,710,843, Cl. 361-96.000.
  - Brinkman, Earl H., 4,666,369, Cl. 415-135.000.
  - Brinkman, Earl H.; and Morrison, Bruce L., 4,702,671, 415-134.000.
  - Brody, George C.; Ma, Francis K.; Nissen, Robert C.; Taylor Theodore; Patel, Raju; and Ziesman, Craig A., 4,670,899, 379-60.000.
  - Brown, Dale M.; Kim, Manjin J.; Baertsch, Richard D., and Vogelsong, Thomas L., 4,638,400, Cl. 361-304.000.
  - Brown, Dale M., 4,677,736, Cl. 29-571.000.

Brown, Sterling B.; and McFay, Dennis J., 4,680,329, Cl. 524-143.000.
Brun, Milivoj K.; and Hillig, William B., 4,661,461, Cl. 501-97.000.
Brun, Milivoj K.; and Hillig, William B., 4,689,189, Cl. 264-62.000.
Brunelle, Daniel J.; and Shannon, Thomas G., 4,638,077, Cl. 558-281.000.
Brunelle, Daniel J.; and Shannon, Thomas G., 4,644,053, Cl. 528-371.000.
Brunelle, Daniel J., 4,681,949, Cl. 548-461.000.
Brunelle, Daniel J.; Guggenheim, Thomas L.; Boden, Eugene P.; Shannon, Thomas G.; and Guiles, Joseph W., 4,696,998, Cl. 528-272.000.
Buchner, Richard P., 4,643,606, Cl. 403-24.000.
Bullock, Donald F.; Simon, Francois Y.; and Farnsworth, Richard G., 4,665,358, Cl. 324-103.00R.
Bullock, Donald F.; and Wilson, Austin F., 4,673,873, Cl. 324-137.000.
Bulman, Melvin J., 4,711,153, Cl. 89-7.000.
Bunker, William M.; and Merz, Donald M., 4,714,428, Cl. 434-43.000.
Burgess, James F., 4,711,804, Cl. 428-210.000.
Burke, Hubert K.; and Michon, Gerald J., 4,681,440, Cl. 356-218.000.
Bussink, Jan; and van der Meer, Roelof, 4,668,723, Cl. 524-105.000.
Capuano, Angelo D.; and Hallenbeck, Gordon R., 4,661,734, Cl. 310-89.000.
Caputi, Roger W.; Pierick, Edward G.; Brumley, Dennis V.; and Kincaid, Charles B., 4,664,754, Cl. 203-39.000.
Carroll, James J.; Frind, Gerhard; and Van Noy, John H., 4,661,665, Cl. 200-144.00B.
Casarcia, Dominick A., 4,644,274, Cl. 324-262.000.
Case, Allen W., Jr.; Lund, Richard M.; Miller, Stuart G.; and Peroutky, Donald C., 4,664,587, Cl. 414-680.000.
Casteel, Jordan B.; Lippitt, David L.; and Ritter, Allen M., 4,658,192, Cl. 318-317.000.
Castleberry, Donald E., 4,688,896, Cl. 350-333.000.
Cawse, James N.; Johnson, Norman E.; and Whitaker, Michael T., 4,652,685, Cl. 568-864.000.
Cearley, James E.; and Izzo, Kenneth R., 4,676,948, Cl. 376-333.000.
Cella, James A.; Grade, Marsha M.; and Evans, Thomas L., 4,690,997, Cl. 528-26.000.
Chand, Sujeet; Amis, Jack B.; Cartwright, William; Sadre, Ahmad; and Kossey, Robert M., 4,663,726, Cl. 364-513.000.
Chand, Sujeet; and Sadre, Ahmad, 4,680,519, Cl. 318-568.000.
Chang, Keh-Minn; Huang, Shyh-Chin; and Taub, Alan I., 4,650,519, Cl. 75-246.000.
Chang, Keh-Minn; Taub, Alan I.; and Huang, Shyh-Chin, 4,661,156, Cl. 75-246.000.
Chang, Keh-Minn; Taub, Alan I.; and Huang, Shyh-Chin, 4,676,829, Cl. 75-246.000.
Chang, Keh-Minn, 4,685,977, Cl. 148-12.70N.
Chari, Madabushi V.; Kalafala, Ahmed K.; D'Angelo, John; and Palmo, Michael A., Jr., 4,646,045, Cl. 335-301.000.
Charles, Richard J.; Mitoff, Stephan P.; and Pasco, Wayne D., 4,684,446, Cl. 204-15.000.
Chastine, Gary L., 4,643,386, Cl. 248-632.000.
Chen, Young K.; Dening, David C.; Marchant, Christopher E.; and Nati, Salvatore F., Jr., 4,661,801, Cl. 340-347.0DD.
Cheng, Bo-Ching; Rosenbaum, Herman S.; and Armijo, Joseph S., 4,659,540, Cl. 376-417.000.
Childress, Jeffery S.; Dissosway, Marc A.; and Hughes, Houston H., III, 4,682,367, Cl. 455-17.000.
Childress, Jeffrey S., 4,649,567, Cl. 455-17.000.
Childress, Jeffrey S.; Sihlanick, Mark M.; Smith, Michael W.; and Morgan, Peyton L., III, 4,658,435, Cl. 455-17.000.
Chou, Robert V., 4,669,695, Cl. 248-500.000.
Chun, Myung K.; and Wang, Sujane C., 4,643,534, Cl. 350-403.000.
Chun, Myung K., 4,698,816, Cl. 372-19.000.
Ciarcia, Ronald D.; DiVincenzo, Gregory T.; Bernier, Richard E.; and Nagy, Joseph G., 4,679,016, Cl. 335-132.000.
Ciarcia, Ronald D.; DiVincenzo, Gregory T.; Doughty, Dennis J.; and Bernier, Richard E., 4,698,903, Cl. 29-622.000.
Cline, Harvey E.; and Lorensen, William E., 4,710,876, Cl. 364-414.000.
Cline, John A.; and Iuliano, William N., 4,687,410, Cl. 415-17.000.
Cohen, Joseph D., 4,638,636, Cl. 60-741.000.
Cohn, David W., 4,642,741, Cl. 362-320.000.
Collins, Arthur K.; Pelc, Norbert J.; and Wallenslager, Susan T., 4,653,013, Cl. 364-518.000.
Cooper, Charles E.; and Vest, Glenn E., 4,698,761, Cl. 364-424.000.
Coppa, Anthony P., 4,633,566, Cl. 29-429.000.
Coppa, Anthony P., 4,644,628, Cl. 29-429.000.
Corby, Nelson R., Jr., 4,664,514, Cl. 356-36.000.
Corby, Nelson R., Jr., 4,687,325, Cl. 356-1.000.
Corby, Nelson R., Jr., 4,687,326, Cl. 356-5.000.
Cote, Paul T., 4,654,560, Cl. 315-49.000.
Cotzas, George M.; VanDusen, Morris V.; and VanSchaick, Thomas E., 4,682,068, Cl. 310-198.000.
Covington, Edward J.; Cridland, John E.; and Gorman, John P., 4,695,768, Cl. 315-73.000.
Cox, Frederick E.; Rink, Frederick J., Jr.; and Valachovic, Richard A., 4,710,664, Cl. 310-217.000.
Crawford, Carl R., 4,636,952, Cl. 364-414.000.
Crawford, Carl R., 4,709,333, Cl. 364-414.000.
Crivello, James V., 4,675,426, Cl. 556-464.000.
Crivello, James V., 4,677,169, Cl. 525-479.000.
Crivello, James V.; and Lee, Julia L., 4,683,317, Cl. 556-64.000.
Crivello, James V., 4,689,289, Cl. 430-270.000.
Crivello, James V., 4,705,887, Cl. 560-190.000.
Crounse, Kim H.; and Archibald, James B., 4,682,064, Cl. 310-61.000.
Curry, Herbert L.; and Roberts, Ernest E., 4,661,394, Cl. 428-212.000.
Curry, Herbert L., 4,666,779, Cl. 428-412.000.
Curry, Herbert L.; and Crouch, Earl T., 4,683,169, Cl. 428-337.000.
Davis, Gary C., 4,661,433, Cl. 430-270.000.
Davis, Gary C., 4,668,755, Cl. 528-26.000.
Dawson, John, 4,695,220, Cl. 415-9.000.
DeKlotz, Joseph E.; Manuel, Thomas E.; and Palmer, David A., 4,648,028, Cl. 364-188.000.
de Munck, Johannes W. J.; and Lohmeijer, Johannes H. G. M., 4,647,594, Cl. 521-146.000.
Derderian, Scott K., 4,709,181, Cl. 310-214.000.
Devine, Thomas M., Jr., 4,641,334, Cl. 378-144.000.
Devine, Thomas M., Jr., 4,645,121, Cl. 228-194.000.
Devine, Thomas M., Jr., 4,689,810, Cl. 378-144.000.
Devine, Thomas M., Jr., 4,700,882, Cl. 228-194.000.
Devine, Thomas M., Jr., 4,715,055, Cl. 378-144.000.
Devins, John C.; Dranchak, Matthew A.; and Rzad, Stefan J., 4,694,375, Cl. 361-212.000.
Dinkins, Gilbert M., 4,659,878, Cl. 370-71.000.
Divins, Larry A.; and Runion, Harold L., 4,656,015, Cl. 423-261.000.
Dougherty, John J., 4,658,323, Cl. 361-79.000.
Doughty, Dennis J.; Seymour, Raymond K.; Ciarcia, Ronald D.; and DiVincenzo, Gregory T., 4,650,272, Cl. 339-198.00R.
Dryman, William K.; Blake, Walter R.; and Halper, Warren, 4,654,768, Cl. 362-374.000.
Dubovsky, George; and Garner, Terry N., 4,673,861, Cl. 320-2.000.
Dumoulin, Charles L., 4,680,546, Cl. 324-307.000.
Dumoulin, Charles L., 4,706,024, Cl. 324-309.000.
Dumoulin, Charles L.; and Hart, Howard R., Jr., 4,714,081, Cl. 128-653.000.
Dunki-Jacobs, Robert J., 4,641,276, Cl. 364-900.000.
Dvorak, Antonin J.; and Toth, Francis C., 4,661,739, Cl. 313-333.000.
Eberhard, Jeffrey W.; and Cain, Dallas E., 4,638,499, Cl. 378-7.000.
Eckberg, Richard P., 4,640,967, Cl. 528-26.000.
Eckberg, Richard P., 4,663,185, Cl. 427-54.100.
Eckberg, Richard P., 4,670,531, Cl. 528-15.000.
Eckberg, Richard P.; Striker, Richard A.; and Modic, Frank J., 4,684,670, Cl. 522-13.000.
Edelstein, William A.; Schenck, John F.; Mueller, Otward M.; and Hayes, Cecil E., 4,680,548, Cl. 324-318.000.
Eichelberger, Charles W.; and Wojnarowski, Robert J., 4,646,135, Cl. 358-12.000.
Eichelberger, Charles W.; Wojnarowski, Robert J.; and Mihran, Theodore G., 4,646,152, Cl. 358-166.000.
Eichelberger, Charles W.; and Wojnarowski, Robert J., 4,714,516, Cl. 156-628.000.
Englund, Arvid E.; Wynn, Stephen R.; Dolman, Rodney A.; Highton, Frederick J.; and Harris, Rickey D., 4,680,749, Cl. 370-11.000.
Erdman, David M., 4,638,233, Cl. 318-644.000.
Erdman, David M., 4,654,566, Cl. 318-254.000.
Erickson, Bert K., 4,688,257, Cl. 380-48.000.
Evans, Edwin R.; and Torkelson, Arnold, 4,681,913, Cl. 524-862.000.
Evans, Thomas L.; and Williams, David A., 4,650,852, Cl. 528-371.000.
Evans, Thomas L., 4,657,989, Cl. 525-464.000.
Evans, Thomas L.; and Williams, David A., 4,675,304, Cl. 502-153.000.
Evans, Thomas L.; and Grade, Marsha M., 4,675,366, Cl. 525-435.000.
Evans, Thomas L., 4,699,974, Cl. 528-354.000.
Evans, Thomas L.; and Berman, Carol B., 4,701,519, Cl. 528-371.000.
Factor, Arnold; and Patel, Gautam A., 4,680,232, Cl. 428-412.000.
Falchi, Fiorino, 4,702,711, Cl. 439-546.000.
Faler, Gary R.; and Lynch, Jerry C., 4,701,566, Cl. 568-719.000.
Farrall, George A.; and Seymour, Raymond K., 4,695,688, Cl. 200-144.00B.
Ferraro, Angelo, 4,649,321, Cl. 315-224.000.
Fink, Thomas F., Jr.; Harris, William O.; and Reiling, Gilbert H., 4,675,794, Cl. 362-289.000.
Fisher, Lynn E., 4,716,326, Cl. 310-89.000.
Fitelson, Michael M.; Wanuga, Stephen; and Williams, Jack B., 4,703,471, Cl. 370-1.000.
Fitzmayer, Louis H.; Staats, James E.; and Miller, Matthew S., 4,642,435, Cl. 219-10.55F.
Flagg, Elgin E.; and Bobo, Melvin, 4,644,806, Cl. 73-863.580.
Forbes, Franklin L.; and Harms, Harold B., 4,712,035, Cl. 310-269.000.
Fox, Daniel W.; Peters, Edward N.; and Smith, Gary F., 4,645,804, Cl. 525-433.000.
Fox, Daniel W.; Peters, Edward N.; and Smith, Gary F., 4,652,617, Cl. 525-439.000.
Fox, Daniel W.; and Keane, John J., 4,699,956, Cl. 525-440.000.
Freberg, Dana D.; and Spencer, William R., 4,710,095, Cl. 415-48.000.

Frind, Gerhard; Carroll, James J.; Van Noy, John H.; Leach, John G.; and Ranjan, Radha K., 4,638,283, Cl. 337-162.000.

Fritzsche, Harold L., 4,654,552, Cl. 310-216.000.

Fritzsche, Harold L., 4,688,413, Cl. 72-142.000.

Fulkerson, Emmet M.; Somers, Ralph M.; and Compton, Diana R., 4,695,721, Cl. 250-234.000.

Gajjar, Jagdish T., 4,648,091, Cl. 371-37.000.

Gallagher, Patrick E.; and Greenberg, Ronald A., 4,680,373, Cl. 528-185.000.

Gallucci, Robert R., 4,654,401, Cl. 525-64.000.

Gallucci, Robert R.; and Avakian, Roger W., 4,659,763, Cl. 524-358.000.

Garces, Luis J., 4,677,360, Cl. 318-803.000.

Gdula, Michael, 4,649,511, Cl. 364-900.000.

Gerdes, Keith W.; Corts, Douglas E.; Jenkins, Thomas E.; Lesmeister, Stephen C.; and Welle, Louis A., Sr., 4,644,698, Cl. 49-478.000.

Germer, John H., 4,678,626, Cl. 376-298.000.

Germer, John H., 4,713,210, Cl. 376-233.000.

Germer, Warren R.; and Losapio, Peter F., 4,673,872, Cl. 324-103.00R.

Giaever, Ivar; and Keese, Charles R., 4,634,681, Cl. 436-518.000.

Giaever, Ivar; and Harrigan, Dale, 4,672,024, Cl. 430-396.000.

Giles, Harold F., Jr., 4,639,481, Cl. 524-128.000.

Giles, Harold F., Jr.; and Hirt, Robert P., Jr., 4,657,972, Cl. 525-57.000.

Glover, Gary H.; and Pelc, Norbert J., 4,665,365, Cl. 324-309.000.

Glover, Gary H.; and Pelc, Norbert J., 4,698,591, Cl. 324-307.000.

Glover, Gary H., 4,714,884, Cl. 324-309.000.

Goodman, George D., 4,677,367, Cl. 323-222.000.

Gray, Floyd L.; Schubert, Thomas F.; Bradshaw, Kenneth M.; and Kolawole, Joshua O., 4,680,545, Cl. 324-307.000.

Greenhalgh, Milton, 4,684,790, Cl. 219-505.000.

Greenhalgh, Milton S., 4,666,971, Cl. 524-445.000.

Greenhalgh, Milton S., 4,707,686, Cl. 340-596.000.

Grieger, Ronald D.; Fariabi, Sepehr; and Kolawole, Joshua O., 4,673,842, Cl. 313-292.000.

Griffing, Bruce F.; and West, Paul R., 4,677,049, Cl. 430-339.000.

Griffing, Bruce F.; and West, Paul R., 4,702,996, Cl. 430-325.000.

Grindle, James L., 4,704,665, Cl. 362-267.000.

Guggenheim, Thomas L., 4,714,780, Cl. 564-430.000.

Gullberg, Grant T.; and Crawford, Carl R., 4,703,424, Cl. 364-414.000.

Gunnoe, George H., Jr., 4,659,954, Cl. 310-248.000.

Haefner, Kenneth B.; Sweet, Larry M.; and Kuo, Ming H., 4,675,502, Cl. 219-124.340.

Haim, Elias S.; and Suminsby, John E., 4,634,225, Cl. 350-331.00T.

Haim, Elias S.; and Albert, Richard, 4,637,687, Cl. 350-335.000.

Haim, Elias S., 4,643,525, Cl. 350-331.00R.

Haitko, Deborah A., 4,668,810, Cl. 556-110.000.

Hale, Alan A., 4,681,486, Cl. 407-114.000.

Hale, Thomas E.; and Yohe, Warren C., 4,649,084, Cl. 428-552.000.

Hallgren, John E.; and Brezniak, Diane V., 4,634,755, Cl. 528-23.000.

Hallgren, John E.; Policastro, Peter P.; Chao, Herbert S.; and Johnson, Bruce C., 4,678,839, Cl. 525-390.000.

Hamilton, James W., Jr.; and Long, Edward A., 4,641,074, Cl. 318-706.000.

Hamilton, James W., Jr.; and Long, Edward A., 4,683,411, Cl. 318-706.000.

Hammer, Edward E.; Lemmers, Eugene; and Swanson, Dail L., 4,644,227, Cl. 315-96.000.

Hammer, Edward E.; and Lemmers, Eugene, 4,698,549, Cl. 313-490.000.

Hampton, Thomas G.; Mitsch, James M.; Palmieri, Joseph M.; Parker, David S.; and Smith, James I., 4,675,641, Cl. 337-82.000.

Hampton, Thomas G.; Mitsch, James M.; Palmieri, Joseph M.; Parker, David S.; and DeRosier, Donna C., 4,706,054, Cl. 335-203.000.

Han, Choong Y.; and Gately, William L., 4,689,372, Cl. 525-390.000.

Hansen, Kurt L.; and VanDenburgh, Ronald J., 4,702,673, Cl. 416-215.000.

Hardy, Christopher J.; and Edelstein, William A., 4,695,799, Cl. 324-307.000.

Hardy, Christopher J.; and Dumoulin, Charles L., 4,701,708, Cl. 324-311.000.

Hardy, James H.; Owen, Daniel V.; and Willis, Candler A., 4,675,579, Cl. 315-318.000.

Harms, Harold B.; and Lytle, Peter B., 4,668,898, Cl. 318-254.000.

Harnden, John D., Jr.; and Kornrumpf, William P., 4,658,154, Cl. 307-132.00R.

Harnden, John D., Jr.; and Kornrumpf, William P., 4,669,160, Cl. 29-25.350.

Harnden, John D., Jr.; and Kornrumpf, William P., 4,670,682, Cl. 310-332.000.

Harnden, John D., Jr.; and Kornrumpf, William P., 4,678,957, Cl. 310-332.000.

Harnden, John D., Jr.; Kornrumpf, William P.; and Farrall, George A., 4,680,840, Cl. 29-25.350.

Harnden, John D., Jr.; Kornrumpf, William P.; and Farrall, George A., 4,689,517, Cl. 310-332.000.

Harnden, John D., Jr.; Kornrumpf, William P.; Kohl, James E.; and Adler, Michael S., 4,697,118, Cl. 310-331.000.

Harnden, John D., Jr.; Kornrumpf, William P.; and Farrall, George A., 4,714,847, Cl. 310-332.000.

Hatch, Burton D., 4,712,032, Cl. 310-178.000.

Hawkins, Ralph G.; and Fields, George, Jr., 4,633,850, 21.00R.

Hayes, Cecil E.; and Eash, Matthew G., 4,642,569, Cl. 324-

Hayes, Cecil E., 4,692,705, Cl. 324-318.000.

Hayes, Cecil E., 4,694,255, Cl. 324-318.000.

Hayes, John J., 4,677,467, Cl. 358-86.000.

Hayes, John J.; and Troutman, Dennis L., 4,688,249, Cl. 380-

Heartz, Robert A., 4,715,005, Cl. 364-521.000.

Heil, Robert F.; and Perry, David S., 4,648,825, Cl. 425-18

Hepp, Leonard R., 4,636,544, Cl. 524-411.000.

Hepp, Leonard R., 4,684,686, Cl. 524-281.000.

Hepp, Leonard R., 4,687,802, Cl. 524-411.000.

Hershberger, Doran D., 4,689,973, Cl. 68-23.700.

Hibbert, David A.; Newmark, Larry J.; Smith, James I.; Timothy C.; and Wung, Peter C. F., 4,675,782, Cl. 361-3

Hibbert, David A.; and Newmark, Larry J., 4,698,72 361-356.000.

Hickey, John S., 4,651,024, Cl. 307-147.000.

Hickin, Charles W. R.; and Tye, Gene, 4,698,489, Cl. 235-40

Hillig, William B., 4,636,480, Cl. 501-87.000.

Hillig, William B.; and Musikant, Solomon, 4,640,89 501-5.000.

Hillig, William B.; and Musikant, Solomon, 4,640,904 501-128.000.

Hillig, William B., 4,657,876, Cl. 501-87.000.

Hills, Stanley; and Landon, James K., 4,655,884, Cl. 204-321

Hobson, Robert R., 4,696,792, Cl. 376-377.000.

Hodsdon, Roy F., 4,642,627, Cl. 340-765.000.

Hodsdon, Roy F.; and Bell, Robert K., 4,642,735, Cl. 361-42

Hodsoll, Raymond J., Jr.; Karr, Steven G.; Leuc, William Smith, Lowell S.; Redington, Rowland W.; Bottomley, Pa and Edelstein, William A., 4,667,159, Cl. 324-309.000.

Hoffman, Mary V., 4,645,969, Cl. 313-487.000.

Holowach, Joseph; and Crowley, James A., 4,662,658, 285-177.000.

Hook, Richard B., Jr.; and Montanye, Richard D., 4,666,36 415-115.000.

Howell, Edward K., 4,636,907, Cl. 361-13.000.

Howell, Edward K., 4,638,244, Cl. 324-51.000.

Howell, Edward K.; and Anderson, Thomas E., 4,639,93 375-8.000.

Howell, Edward K., 4,644,309, Cl. 335-195.000.

Howell, Edward K., 4,645,889, Cl. 200-144.0AP.

Howell, Edward K., 4,646,041, Cl. 335-195.000.

Howell, Edward K., 4,652,962, Cl. 361-3.000.

Howell, Edward K., 4,656,324, Cl. 200-146.00R.

Howell, Edward K.; and Willard, Henry G., 4,658,227, 335-174.000.

Howell, Edward K., 4,667,071, Cl. 200-144.00B.

Howell, Edward K., 4,675,776, Cl. 361-92.000.

Howell, Edward K., 4,687,950, Cl. 307-642.000.

Howell, Edward K., 4,698,607, Cl. 335-195.000.

Howell, Edward K., 4,700,256, Cl. 361-13.000.

Howell, Edward K., 4,705,923, Cl. 200-144.00B.

Howell, Edward K., 4,714,807, Cl. 200-144.00B.

Howery, Richard W.; Rosenquist, Niles R.; Pyles, Robert A.; Mulvey, Patrick J., 4,686,277, Cl. 528-493.000.

Howson, Paul E., 4,650,850, Cl. 528-26.000.

Hoyle, William; and Graves, Jammie, 4,705,439, Cl. 409-136.

Hsiung, Chia Y.; and Ross, Daniel P., 4,691,176, Cl. 331-2.00

Huang, Shyh-Chin; Chang, Keh-Minn; and Taub, Ala 4,668,311, Cl. 148-429.000.

Huang, Shyh-Chin; Chang, Keh-Minn; and Taub, Ala 4,710,247, Cl. 148-429.000.

Hughes, William C., 4,641,325, Cl. 375-97.000.

Hunt, Robert H.; and Klappert, Willi, 4,646,048, Cl. 336-213.

Hussey, Sam W., 4,704,563, Cl. 315-307.000.

Hwang, Tzong Y.; and Campagna, Nicholas F., 4,649,347 324-309.000.

Hwang, Ying C.; Chen, Young K.; and Ragonese, Lou 4,638,190, Cl. 307-512.000.

Itani, Abdallah M.; Dietz, Peter W.; and Carlson, Geral 4,680,532, Cl. 323-240.000.

Itani, Abdallah M.; Carlson, Gerald J.; and Dietz, Peter 4,680,533, Cl. 323-240.000.

Jackson, Melvin R.; Siemers, Paul A.; and Perrin, Davi 4,669,212, Cl. 42-76.020.

Jacobs, Alvin J.; and Gordon, Gerald M., 4,699,671, Cl. 148-13

Jahns, Thomas M., 4,649,331, Cl. 318-798.000.

Janatpour, Mojtaba; and Shafer, Sheldon J., 4,697,034, 558-274.000.

Jarvinen, W. Bruce; and Lukas, Stephen J., 4,697,126, 318-331.000.

Jaskolski, Patrick L.; and Eash, Matthew G., 4,638,253, 324-318.000.

Jeng, Tzong K., 4,679,246, Cl. 455-183.000.

Jespersen, Nils V.; and Quine, John P., 4,673,899, Cl. 333-137

Jo Lane, Kimberley; and Traver, Frank J., 4,661,577, 528-10.000.

Johnson, Kenneth O., 4,660,376, Cl. 60-39.050.

Jones, Marshall G.; and Georgalas, Gregory, 4,676,586 350-96.200.

Jones, Marshall G., 4,681,396, Cl. 350-96.180.

Kaiser, Bruce J.; Walker, Edward S.; Tunnell, George W. Masaitis, William, 4,701,621, Cl. 250-435.000.

Kaminski, Christopher A.; and Rasmussen, Paul C., 4,667,125, Cl. 310-214.000.
Kaminski, Christopher A., 4,709,177, Cl. 310-59.000.
Keane, John J.; and Wacker, Thomas P., 4,670,351, Cl. 428-549.000.
Keim, Thomas A.; and Mayergoyz, Isaak D., 4,656,447, Cl. 335-216.000.
Kellie, Truman F.; Motz, Teresa M.; Manley, Mark B.; and Donaldson, Charles W., 4,659,221, Cl. 356-241.000.
Kelm, James S.; Maclin, Harvey M.; Vickers, Edward C.; and Wakeman, Thomas G., 4,679,400, Cl. 60-722.000.
Kelm, James S.; Ludwig, Arthur L.; Maclin, Harvey M.; Roggenkamp, Steven K.; and Wakeman, Thomas G., 4,688,310, Cl. 29-156.80R.
Keohan, Francis L., and Lewis, Larry N., 4,634,610, Cl. 427-387.000.
Kim, Bang M.; and Holub, Fred F., 4,645,595, Cl. 210-181.000.
Kim, Bang M., 4,664,808, Cl. 210-638.000.
Kim, Bang M., 4,716,072, Cl. 428-212.000.
Kimura, Shiro G., 4,645,652, Cl. 423-235.000.
Kimura, Shiro G., 4,645,653, Cl. 423-235.000.
Kindig, Alan L.; and Tew, Ho H., 4,698,533, Cl. 310-71.000.
King, James L., 4,642,885, Cl. 29-596.000.
King, James L., 4,712,292, Cl. 29-596.000.
Kinsey, Richard R., 4,675,681, Cl. 342-372.000.
Kirkpatrick, Ralph A.; Willgoose, Kenneth; and Erdmann, Omer D., 4,688,992, Cl. 416-215.000.
Klassen, David D.; Moyer, Roy E.; Lastrina, Frank A.; and Tamco, Robert P., 4,685,942, Cl. 55-306.000.
Knoble, David W.; and Sanders, Joseph W., 4,691,341, Cl. 379-97.000.
Knorowski, Victor J.; Hean, Charles R.; and Placek, Ronald J., 4,682,934, Cl. 416-198.00A.
Koch, Steven R.; Stein, Charles R.; Hatfield, William T.; Shapiro, Neil R.; and Hughes, William C., 4,715,030, Cl. 370-85.000.
Komanduri, Ranga; and Reed, William R., Jr., 4,671,147, Cl. 82-36.00R.
Komanduri, Ranga, 4,690,691, Cl. 51-293.000.
Komanduri, Ranga, 4,702,649, Cl. 407-119.000.
Komanduri, Ranga, 4,714,385, Cl. 407-119.000.
Kosky, Philip G.; Silva, James M.; Brunelle, Daniel J.; and Shannon, Thomas G., 4,649,210, Cl. 558-265.000.
Kosmatka, Walter J., 4,704,661, Cl. 362-61.000.
Kryder, Mark H., 4,670,316, Cl. 428-64.000.
Kryder, Mark H.; and Shieh, Han-Ping D., 4,679,180, Cl. 369-13.000.
Kumar, Ajith K., 4,695,941, Cl. 364-165.000.
Kumpitsch, Robert C.; and Retersdorf, James P., 4,713,878, Cl. 29-599.000.
Kurokawa, Haruo, 4,710,596, Cl. 379-424.000.
Kushner, Gerald J.; and Toma, Daniel N., 4,640,105, Cl. 68-23.300.
Lane, Bruce B.; Westerkamp, Douglas F.; and Clifford, Peter P., 4,694,190, Cl. 290-52.000.
Lane, Kimberley J.; and Traver, Frank J., 4,705,704, Cl. 427-389.900.
Larson, Richard L.; and Ringle, Richard P., 4,670,198, Cl. 264-0.500.
Larson, Richard L.; Ringle, Richard P.; Connolly, John D., Jr.; and Gallivan, Timothy J., 4,696,769, Cl. 252-638.000.
Laskaris, Evangelos T., 4,633,682, Cl. 62-514.00R.
Laskaris, Evangelos T., 4,635,450, Cl. 62-514.00R.
Laskaris, Evangelos T., 4,635,451, Cl. 62-514.00R.
Laskaris, Evangelos T.; and Chari, Madabushi V., 4,660,013, Cl. 335-299.000.
Laskaris, Evangelos T., 4,682,134, Cl. 335-216.000.
Lavens, Thomas R.; Corrigan, Francis R.; Shott, Richard L.; and Bovenkerk, Harold P., 4,673,414, Cl. 51-293.000.
LeBlanc, Oliver H., Jr., 4,634,501, Cl. 204-1.00T.
Lee, Albert C., 4,663,605, Cl. 336-197.000.
Lee, Albert C., 4,673,907, Cl. 336-92.000.
Lee, Chung J., 4,670,497, Cl. 524-377.000.
Lee, Gim F., Jr.; and Olander, Walter K., 4,684,681, Cl. 524-127.000.
Lee, Gim F., Jr., 4,684,682, Cl. 524-141.000.
LeGrand, Donald G., 4,645,708, Cl. 428-215.000.
LeGrand, Donald G.; and Olszewski, William V., 4,647,493, Cl. 428-215.000.
LeGrand, Donald G.; and Olszewski, William V., 4,683,172, Cl. 428-412.000.
Leiby, David W.; and Young, Joseph C., 4,669,874, Cl. 356-124.500.
Lemmers, Eugene, 4,654,774, Cl. 363-48.000.
Lemmers, Robert E.; Safran, Frank; and Brussee, Warren T., 4,641,966, Cl. 356-237.000.
Lenz, Henry G.; Coffman, Leonard; and Beltran, Adrian M., 4,679,314, Cl. 29-598.000.
Lenz, Henry G.; Coffman, Leonard; and Beltran, Adrian M., 4,692,644, Cl. 310-178.000.
Leonard, Gary L.; and Johnson, Roger N., 4,634,351, Cl. 417-395.000.
Leonard, Gary L.; and Correa, Sanjay M., 4,655,175, Cl. 123-25.00C.
Leonard, Gary L., 4,660,383, Cl. 60-605.000.
Leonard, John A.; and Plumb, Harry A., 4,649,328, Cl. 318-317.000.
Leue, William M.; Hodsoll, Raymond J., Jr.; Glover, Gary H.; and Adamchick, John T., 4,680,547, Cl. 324-309.000.
Leue, William M.; and Hodsoll, Raymond J., Jr., 4,689,564, Cl. 324-309.000.
Levin, Sherman L., 4,698,687, Cl. 358-230.000.
Levinson, Lionel M., 4,638,284, Cl. 338-21.000.
Lewis, Larry N., 4,645,815, Cl. 528-15.000.
Lewis, Larry N., 4,645,849, Cl. 556-16.000.
Lewis, Larry N., 4,681,963, Cl. 556-453.000.
Lewis, Larry N., 4,705,765, Cl. 502-152.000.
Lillquist, Robert D.; Menzies, Richard G.; and Lober, Richard W., 4,656,331, Cl. 219-121.0PL.
Lillquist, Robert D.; Pimbley, Joseph M.; and Vogelsong, Thomas L., 4,679,068, Cl. 358-44.000.
Lillquist, Robert D., 4,687,344, Cl. 374-124.000.
Lillquist, Robert D.; and Case, Allen W., Jr., 4,711,986, Cl. 219-130.010.
Linz, David G.; Grier, Robert K., Jr.; Wetzel, Jennifer A.; Dada, Abdul G.; and Connolly, John D., 4,698,214, Cl. 423-260.000.
Liu, Nan-I, 4,639,486, Cl. 524-409.000.
Liu, Nan-I; and McCready, Russell J., 4,659,765, Cl. 524-447.000.
Liu, Ping Y.; and Belfoure, Edward L., 4,634,737, Cl. 525-146.000.
Liu, Ping Y., 4,652,602, Cl. 524-449.000.
Liu, Ping Y., 4,666,985, Cl. 525-146.000.
Liu, Ping Y., 4,710,534, Cl. 524-411.000.
Liu, Thomas P.; and Eassa, Hussam E., 4,652,918, Cl. 358-111.000.
Lohmeijer, Johannes H. G. M.; and Heuschen, Jean M. H., 4,654,400, Cl. 525-64.000.
Losapio, Peter F.; Germer, Warren R.; Ouellette, Maurice J.; and Palmer, Ansell W., 4,713,609, Cl. 324-156.000.
Lown, Harold, 4,695,224, Cl. 415-116.000.
Lowry, Hugh R.; and Frost, Robert T., 4,662,431, Cl. 164-503.000.
Lowry, Hugh R.; and Frost, Robert T., 4,709,749, Cl. 164-503.000.
Lucas, Gary M., 4,670,532, Cl. 528-18.000.
Lucas, Gary M., 4,680,364, Cl. 528-15.000.
Luthra, Krisham L., 4,677,034, Cl. 428-678.000.
MacFall, James R.; and Glover, Gary H., 4,709,212, Cl. 324-309.000.
MacMinn, Stephen R., 4,642,543, Cl. 318-696.000.
Magoon, Inder K.; and Mayer, Robert E., 4,693,165, Cl. 89-7.000.
Magrane, Mark G., 4,669,314, Cl. 73-610.000.
Maki, Paul A., 4,646,680, Cl. 118-726.000.
Mark, Victor; and Hedges, Charles V., 4,638,027, Cl. 524-157.000.
Mark, Victor; and Hedges, Charles V., 4,638,036, Cl. 525-462.000.
Mark, Victor, 4,663,421, Cl. 528-176.000.
Mark, Victor; and Hedges, Charles V., 4,663,434, Cl. 568-640.000.
Mark, Victor, deceased; Mark, Ester H., legal representive; and Peters, Edward N., 4,677,183, Cl. 528-196.000.
Mark, Victor, deceased; and Mark, Ester H., legal representative, 4,677,184, Cl. 528-198.000.
Mark, Victor, deceased; and Mark, Ester H., legal representative, 4,699,971, Cl. 528-198.000.
Markovitz, Mark, 4,656,090, Cl. 428-364.000.
Markowski, Robert G.; Balcezak, Stanley M., Jr.; Bottalico, John J.; Morby, John A.; and Sabatella, Robert J., 4,675,481, Cl. 200-144.00R.
Martellock, Paul T.; Dougherty, John J.; and Lund, Nora A., 4,685,024, Cl. 361-93.000.
Martin, Jack R., 4,682,935, Cl. 416-223.00A.
Matheson, Robert R.; Tarnay, Denes; and Kolenich, Peter, 4,654,760, Cl. 362-80.000.
May, John E., 4,706,060, Cl. 338-20.000.
McCready, Russell J., 4,661,582, Cl. 528-292.000.
McCready, Russell J.; and Tyrell, John A., 4,711,933, Cl. 525-415.000.
McCready, Russell J.; and Tyrell, John A., 4,711,947, Cl. 528-288.000.
McCready, Russell J.; and Tyrell, John A., 4,711,948, Cl. 528-288.000.
McCready, Russell J.; and Tyrell, John A., 4,714,753, Cl. 528-288.000.
McCready, Russell J.; and Tyrell, John A., 4,714,754, Cl. 528-288.000.
McCready, Russell J.; and Tyrell, John A., 4,714,755, Cl. 528-288.000.
McDaniel, David L.; Granfors, Paul R.; and Hoffman, David M., 4,686,369, Cl. 250-385.000.
McGreehan, William F.; and Sherwood, Laurence T., 4,715,213, Cl. 73-40.700.
McHugh, James D., 4,668,108, Cl. 384-215.000.
McMillan, Stephen L.; Akers, Alvin; and Toma, Daniel N., 4,637,231, Cl. 68-4.000.
McMurray, William, 4,686,618, Cl. 363-58.000.
Meccariello, Thomas V.; and Relihan, Gary F., 4,703,496, Cl. 378-99.000.
Mendiratta, Ashok K.; and Morgan, Wayne F., 4,634,761, Cl. 528-500.000.
Mendiratta, Ashok K.; and Morgan, Wayne F., 4,663,027, Cl. 208-262.000.
Mendiratta, Ashok K.; and Morgan, Wayne F., 4,668,768, Cl. 528-493.000.
Merz, Donald M.; Chandler, Jimmy E.; and Economy, Richard, 4,692,880, Cl. 364-521.000.
Michon, Gerald J., 4,689,688, Cl. 358-213.310.
Milkovic, Miran, 4,682,102, Cl. 324-142.000.
Miller, Edward B.; and Eichelberger, Charles W., 4,656,475, Cl. 340-825.060.
Miller, Edward H., 4,648,793, Cl. 415-168.000.
Miller, Edward H.; and Robbins, Kenneth E., 4,668,161, Cl. 415-112.000.

Miller, Gary; and Jaffe, Susan B., 4,663,562, Cl. 313-478.000.
Miller, Russell S.; and Brzozowski, Steven J., 4,667,486, Cl. 62-514.00R.
Miller, Russell S.; and Brzozowski, Steven J., 4,667,487, Cl. 62-514.00R.
Miller, Russell S., 4,694,663, Cl. 62-514.00R.
Miller, Timothy J. E.; Plunkett, Allan B.; and Steigerwald, Robert L., 4,684,867, Cl. 318-701.000.
Mobley, David P.; and Fyvie, Thomas J., 4,675,377, Cl. 528-215.000.
Morby, John A.; Sabatella, Robert J.; and Shuttleworth, George L., 4,667,269, Cl. 361-355.000.
Morgan, Charles G., 4,714,640, Cl. 428-36.000.
Morris, John R., Jr.; and Tanzilli, Richard A., 4,666,873, Cl. 501-96.000.
Morris, Robert A.; and Rajotte, Paul T., 4,641,216, Cl. 361-45.000.
Morris, Robert A.; Rajotte, Paul T.; Russell, Ronald R.; and Kiesel, George W., 4,641,217, Cl. 361-45.000.
Morris, Robert A.; and Rajotte, Paul T., 4,667,263, Cl. 361-42.000.
Morris, Robert A.; and Rajotte, Paul T., 4,686,600, Cl. 361-42.000.
Morris, Robert A.; and Rajotte, Paul T., 4,702,002, Cl. 29-837.000.
Morris, Vincent P., 4,704,093, Cl. 445-26.000.
Morris, Vincent P., 4,707,636, Cl. 313-625.000.
Mrowka, Joseph J., 4,667,268, Cl. 361-353.000.
M'Sadoques, Andre J.; and Morby, John A., 4,646,199, Cl. 361-353.000.
M'Sadoques, Andre J.; Rich, Joseph F.; and Shuttleworth, George L., 4,646,200, Cl. 361-355.000.
M'Sadoques, Andre J.; and Sabatella, Robert J., 4,670,963, Cl. 29-526.00R.
Mueller, Otward M., 4,647,868, Cl. 330-286.000.
Muller, Alexander, 4,644,640, Cl. 29-596.000.
Muller, Alexander, 4,677,744, Cl. 29-729.000.
Murray, Omer E., 4,655,491, Cl. 292-247.000.
Nelson, Harold L., 4,663,118, Cl. 376-445.000.
Nelson, Harold L.; Dunlap, Thomas G.; Johansson, Eric B.; and Matzner, Bruce, 4,675,154, Cl. 376-444.000.
Nelson, Linda H., 4,686,245, Cl. 522-163.000.
Neves, Fernando B.; and Fage, Jimmy, 4,634,384, Cl. 434-44.000.
Newmark, Larry J.; and Hibbert, David A., 4,688,146, Cl. 361-364.000.
Ngo, Khai D. T.; and Peterson, William A., 4,709,316, Cl. 363-21.000.
Nied, Herman F., 4,657,797, Cl. 428-64.000.
Niedrach, Leonard W.; and Will, Fritz G., 4,652,359, Cl. 204-415.000.
Niedrach, Leonard W.; and Will, Fritz G., 4,681,673, Cl. 204-415.000.
O'Connor, Robert G., 4,698,029, Cl. 439-532.000.
O'Donnell, Matthew; Karr, Steven G.; Barber, William D.; Wang, Jish M.; and Edelstein, William A., 4,680,551, Cl. 324-320.000.
Ohmstedt, Harry O., 4,663,552, Cl. 310-246.000.
Ohno, John M., 4,698,070, Cl. 51-307.000.
Olsen, Dwight; and Wall, Robert L., 4,635,350, Cl. 29-598.000.
Olsen, Dwight; and Wall, Robert L., 4,678,931, Cl. 310-201.000.
Ortiz, Angel L., Jr., 4,673,795, Cl. 219-121.00L.
Otto, Lee W., 4,638,208, Cl. 313-116.000.
Pajerski, Michael J.; Gray, Steven J.; Flakas, Gerald K.; and Cotic, Dennis J., 4,697,661, Cl. 180-6.500.
Park, Dong-Sil, 4,664,942, Cl. 427-57.000.
Park, John N., 4,670,832, Cl. 363-98.000.
Park, John N.; and Steigerwald, Robert L., 4,672,528, Cl. 363-98.000.
Parker, Preston K.; and Toutant, Roy T., 4,715,286, Cl. 104-88.000.
Parks, Harold G.; and Possin, George E., 4,646,424, Cl. 29-571.000.
Pasco, Wayne D.; and Arendt, Ronald H., 4,678,683, Cl. 427-123.000.
Patch, Richard J., 4,663,599, Cl. 330-311.000.
Payne, Thomas R., 4,634,842, Cl. 219-486.000.
Payne, Thomas R., 4,634,843, Cl. 219-486.000.
Payne, Thomas R., 4,639,578, Cl. 219-450.000.
Payne, Thomas R., 4,665,292, Cl. 219-450.000.
Payne, Thomas R., 4,692,596, Cl. 219-450.000.
Pelc, Norbert J.; and Glover, Gary H., 4,663,591, Cl. 324-309.000.
Pelc, Norbert J.; and Glover, Gary H., 4,706,026, Cl. 324-309.000.
Pelc, Norbert J.; and Glover, Gary H., 4,710,717, Cl. 324-309.000.
Penney, Carl M., 4,634,879, Cl. 250-560.000.
Penney, Carl M., 4,636,611, Cl. 219-124.340.
Penney, Carl M.; Roy, Robert N.; and Thomas, Bradley S., 4,645,917, Cl. 250-201.000.
Penney, Carl M., 4,696,574, Cl. 356-375.000.
Penney, Carl M.; and Thomas, Bradley S., 4,701,031, Cl. 350-371.000.
Perry, Richard W.; Chang, John; and Dixon, Robert C., 4,675,149, Cl. 376-260.000.
Peters, Edward N., 4,657,977, Cl. 525-92.000.
Peters, Edward N., 4,663,399, Cl. 525-462.000.
Peters, Edward N., 4,675,376, Cl. 528-185.000.
Peters, Edward N.; and Fox, Daniel W., 4,689,391, Cl. 528-179.000.
Peters, Edward N., 4,696,995, Cl. 528-206.000.
Peterson, Marvin A.; and Mooney, Raymond M., 4,670,342, Cl. 428-377.000.
Peterson, William A., 4,667,282, Cl. 363-89.000.
Pettinga, Robert; Dix, Joseph; McHugh, Thomas O.; Sibley, Lincoln L., Jr.; Ziemba, Richard T.; and Forrester, Victor J., 4,700,608, Cl. 89-11.000.
Pimbley, Joseph M.; Gildenblat, Gennady; Wei, Ching-Yee an Shappir, Joseph, 4,691,433, Cl. 437-44.000.
Piper, William W.; and Possin, George E., 4,704,621, C 357-23.700.
Pisano, Alan D., 4,672,806, Cl. 60-39.030.
Pohl, Walter J., 4,653,285, Cl. 62-126.000.
Pohl, Walter J.; McCarty, William J.; and Hicks, Frederick E. 4,662,184, Cl. 62-156.000.
Policastro, Peter P.; and Rich, Jonathan D., 4,668,754, C 528-26.000.
Policastro, Peter P.; and Hallgren, John E., 4,675,367, C 525-474.000.
Policastro, Peter P., 4,675,372, Cl. 528-26.000.
Poling, Ronald W., 4,703,140, Cl. 200-83.00P.
Possin, George E., 4,686,553, Cl. 357-23.700.
Possin, George E.; Parks, Harold G.; and Piper, William W. 4,704,783, Cl. 437-40.000.
Premerlani, William J., 4,674,062, Cl. 364-602.000.
Premerlani, William J., 4,715,000, Cl. 364-484.000.
Pressman, Eric, 4,695,594, Cl. 521-92.000.
Pribis, Paul B.; and West, Herbert J., 4,715,260, Cl. 89-7.000.
Pyles, Robert A.; and Mulvey, Patrick J., 4,663,431, C 528-496.000.
Pyles, Robert A.; and Mulvey, Patrick J., 4,686,046, C 210-651.000.
Quinn, Clayton B.; and Holub, Fred F., 4,687,819, Cl. 525-425.0
Quinn, Clayton B.; McClish, Richard R.; and Moore, James E. 4,714,657, Cl. 428-412.000.
Raabe, Rodney D.; Mrowka, Joseph J.; McCuin, Jon P.; and No-nan, Joseph F., 4,679,120, Cl. 361-358.000.
Raabe, Rodney D.; Mrowka, Joseph J.; McCuin, Jon P.; and No-nan, Joseph F., 4,713,728, Cl. 361-363.000.
Rabe, Jerry R., 4,635,349, Cl. 29-596.000.
Rafferty, William; and Saulnier, Gary J., 4,647,864, Cl. 329-122.0
Rairden, John R., III, 4,681,772, Cl. 427-34.000.
Rairden, John R., III, 4,683,148, Cl. 427-34.000.
Reed, Bradley O., 4,682,515, Cl. 74-687.000.
Reiling, Gilbert H., 4,678,960, Cl. 313-25.000.
Rich, Jonathan D., 4,678,610, Cl. 260-349.000.
Rich, Jonathan D., 4,709,054, Cl. 549-214.000.
Rich, Joseph F.; Sabatella, Robert J.; and Shuttleworth, George L. 4,646,198, Cl. 361-346.000.
Riley, James K.; and Miller-Jones, Stockton M., 4,662,223, C 73-626.000.
Riley, James K., 4,662,380, Cl. 128-660.000.
Rios, Pedro A., 4,680,666, Cl. 361-141.000.
Robbins, Kenneth E.; Ruggles, Stephen G.; Duncan, Dan; Williams, John C.; Tung, Stephen K.; Sumner, William J.; and Dinh Cuong V., 4,643,645, Cl. 416-190.000.
Roberts, Gerald E.; Toliver, Samuel; and Crescenzi, Robert J. 4,676,993, Cl. 427-10.000.
Roberts, Gerald L., 4,637,230, Cl. 68-4.000.
Roberts, Victor D.; and Borowiec, Joseph C., 4,677,346, C 315-226.000.
Roberts, Victor D., 4,709,188, Cl. 315-178.000.
Roberts, Victor D.; and Borowiec, Joseph C., 4,714,912, Cl. 34 310.00R.
Robertson, Brian T., 4,703,392, Cl. 361-402.000.
Robins, Bertrand G., 4,657,171, Cl. 228-119.000.
Rock, John A.; and Giles, Harold F., Jr., 4,657,987, Cl. 525-452.0
Rock, John A.; Durfee, Norman E., Jr.; and Johnson, Robert C 4,673,708, Cl. 525-66.000.
Roeder, Allan W., 4,653,069, Cl. 380-31.000.
Roos, Hartog J.; and Schilling, Edward F., 4,697,075, Cl. 25 213.0VT.
Rosenquist, Niles R.; and Evans, Thomas L., 4,636,559, C 528-370.000.
Rosenquist, Niles R., 4,638,101, Cl. 568-720.000.
Rosenquist, Niles R., 4,654,423, Cl. 548-441.000.
Rosenquist, Niles R., 4,696,997, Cl. 528-271.000.
Rosenquist, Niles R., 4,701,516, Cl. 528-176.000.
Rosenquist, Niles R., 4,701,537, Cl. 549-228.000.
Rosenquist, Niles R.; and Miller, Kenneth F., 4,701,538, C 549-228.000.
Ross, Arthur L., 4,635,093, Cl. 357-80.000.
Rossi, Anthony J., 4,667,114, Cl. 290-40.00A.
Roussin, Alfred G., 4,716,339, Cl. 315-15.000.
Rowe, Raymond G., 4,654,858, Cl. 373-72.000.
Rowe, William S.; and Chao, Fred C., 4,678,622, Cl. 376-259.00
Roy, Prodyot, 4,692,390, Cl. 429-17.000.
Rucki, William M., 4,680,508, Cl. 315-166.000.
Ruterbusch, Paul H., 4,706,171, Cl. 362-254.000.
Rzad, Stefan J.; and Tong, David W., 4,650,555, Cl. 204-174.00
Sands, Robert W., 4,686,411, Cl. 313-271.000.
Santurtun, Carlos M.; and Carmena, Angel D., 4,654,770, C 363-17.000.
Savkar, Sudhir D., 4,714,198, Cl. 239-409.000.
Sawyer, Steven D.; Hill, William D.; Wilson, Patricia A.; an Steiner, William M., 4,640,812, Cl. 376-245.000.
Schaefer, Daniel J.; and Belt, Kenneth W., 4,712,560, C 128-653.000.
Schaefer, Henry A.; and Garner, Terry N., 4,688,262, C 455-89.000.
Schaefer, Henry A.; and Garner, Terry N., 4,709,201, Cl. 320-2.00
Schenck, John F.; Hussain, Moayyed A.; and Edelstein, William A., 4,646,024, Cl. 324-318.000.

Schmidt, George S., 4,660,294, Cl. 33-533.000.
Schoenig, Fred C., Jr.; McLemore, David R.; Patterson, Richard G.; and Tunnell, George W., 4,649,632, Cl. 29-701.000.
Scott, Curtis E.; and McVey, Charles L., 4,690,727, Cl. 156-635.000.
Scott, Graham A., 4,649,455, Cl. 361-93.000.
Scott, Graham A., 4,652,975, Cl. 361-404.000.
Scott, Graham A., 4,703,389, Cl. 361-93.000.
Scott, Graham A.; and Messerli, Alan J., 4,710,844, Cl. 361-96.000.
Searl, Stephen, 4,706,465, Cl. 62-137.000.
Seepe, John E.; and Vest, Glenn E., 4,665,319, Cl. 290-3.000.
Seymour, Robert A.; Ritter, Allen M.; Kellogg, Richard A.; and D'Atre, John D., 4,698,577, Cl. 318-805.000.
Shah, Manoj R.; and Lenz, Henry G., 4,712,033, Cl. 310-178.000.
Shah, Manoj R.; Lenz, Henry G.; and Bird, William L., Jr., 4,716,328, Cl. 310-178.000.
Short, Stephen P., 4,655,536, Cl. 339-191.00R.
Siemers, Paul A.; Kopp, Robert W.; and Jackson, Melvin R., 4,657,823, Cl. 428-610.000.
Sierocuk, Thomas J.; and Newman, Robert W., 4,644,276, Cl. 324-307.000.
Silva, James M., 4,701,544, Cl. 558-281.000.
Simonson, Dale E.; and Stoll, Donald H., 4,712,157, Cl. 361-357.000.
Smith, Alan M., 4,661,821, Cl. 343-743.000.
Smith, Daniel P.; and Lillquist, Robert D., 4,682,222, Cl. 358-113.000.
Sofianek, Joseph C.; Tognella, Ugo R.; and Bonnett, Richard J., 4,665,287, Cl. 200-144.00B.
Spriggs, Donald R., 4,704,336, Cl. 428-552.000.
Srinivasan, Nallaswamy; Banaszewski, Sharon L.; and Acharya, Kishore C., 4,680,709, Cl. 364-414.000.
Staats, James E.; and Fitzmayer, Louis H., 4,695,693, Cl. 219-10.55F.
Steele, Douglas S.; Little, Francis H.; Sostarich, Joseph J.; and Ingram, Douglas E., 4,682,964, Cl. 445-28.000.
Steele, Douglas S., 4,691,108, Cl. 250-385.000.
Steigerwald, Robert L.; and Kornrumpf, William P., 4,642,745, Cl. 363-37.000.
Steigerwald, Robert L.; and Mistry, Keku M., 4,685,040, Cl. 363-17.000.
Steigerwald, Robert L.; Routh, Kevin C.; Claydon, Glenn S.; and Bicknell, William H., 4,694,384, Cl. 363-17.000.
Steigerwald, Robert L.; and Mistry, Keku M., 4,695,934, Cl. 363-17.000.
Stein, Charles R., 4,714,802, Cl. 178-1.000.
Stephens, Charles M.; and Rink, Frederick J., Jr., 4,689,546, Cl. 322-99.000.
Stevens, Edward P.; and Godbarsen, Robert, 4,650,299, Cl. 350-626.000.
Stokes, Vijay K., 4,663,834, Cl. 29-597.000.
Stokes, Vijay K., 4,683,393, Cl. 310-156.000.
Stokes, Vijay K., 4,704,555, Cl. 310-268.000.
Stucker, Harold L., 4,649,337, Cl. 324-138.000.
Stucker, Harold L., 4,673,874, Cl. 324-137.000.
Stutt, Charles A.; and Gajjar, Jagdish T., 4,701,939, Cl. 375-115.000.
Sugalski, Raymond K., 4,654,963, Cl. 29-623.100.
Sullivan, Jack O., 4,708,536, Cl. 407-41.000.
Sutphin, Melvin W.; and Taylor, Theodore E., 4,663,765, Cl. 375-5.000.
Swerbinsky, Leo, 4,653,819, Cl. 312-296.000.
Takekoshi, Tohru; Clagett, Donald C.; and Cooper, Stephen M., 4,634,760, Cl. 528-353.000.
Takekoshi, Tohru; and Anderson, Patricia P., 4,695,612, Cl. 525-433.000.
Takekoshi, Tohru; and Anderson, Patricia P., 4,716,216, Cl. 528-352.000.
Taiento, Joseph L., 4,687,515, Cl. 75-246.000.
Talley, John J., 4,645,787, Cl. 524-122.000.
Tameo, Robert P., 4,652,208, Cl. 415-162.000.
Tarnay, Denes, 4,665,471, Cl. 362-267.000.
Tassie, Douglas P., 4,635,529, Cl. 89-36.140.
Tate, John C.; and Weeren, Eric K., 4,634,990, Cl. 329-126.000.
Taub, Alan I.; Huang, Shyh-Chin; and Chang, Keh-Minn, 4,642,139, Cl. 148-3.000.
Taub, Alan I.; Frischmann, Peter G.; and Douglas, Thomas E., 4,670,636, Cl. 219-121.0EH.
Taub, Alan I.; and Frischmann, Peter G., 4,715,906, Cl. 148-120.000.
Taylor, Benson T., Jr.; and Werkmeister, Robert L., 4,704,237, Cl. 264-40.100.
Taylor, Benson T., Jr., 4,706,363, Cl. 29-453.000.
Taylor, Larry D.; Reel, David A.; and Renfro, Gene R., 4,633,770, Cl. 98-94.200.
Tehon, Stephen W., 4,650,346, Cl. 374-117.000.
Tehon, Stephen W., 4,676,663, Cl. 374-119.000.
Temple, Victor A. K., 4,644,637, Cl. 29-571.000.
Temple, Victor A. K., 4,646,117, Cl. 357-23.400.
Temple, Victor A. K.; and Tantraporn, Wirojana, 4,648,174, Cl. 29-578.000.
Terrell, Jacquelyn B.; and Mullersman, Ferdinand H., 4,645,995, Cl. 320-2.000.
Thimineur, Raymond J.; and Raleigh, William J., 4,696,969, Cl. 524-762.000.
Thomas, Bradley S.; and Kargetta, David J., 4,682,806, Cl. 294-88.000.
Thomas, Charles E.; Yerazunis, William S.; Erkes, Joseph W.; and Lee, Minyoung, 4,636,779, Cl. 340-680.000.
Thomas, Charles E.; Lee, Minyoung; Bedard, James F.; and Hayashi, Steven R., 4,636,780, Cl. 340-680.000.
Thomas, Charles E.; Lee, Minyoung; Bedard, James F.; and Hayashi, Steven R., 4,642,617, Cl. 340-680.000.
Thomas, Charles E., 4,704,693, Cl. 364-508.000.
Thomas, Charles E.; and Yerazunis, William S., 4,707,687, Cl. 340-680.000.
Thomas, Charles E., 4,707,688, Cl. 340-680.000.
Thomas, George L.; and Sircar, Anup, 4,677,081, Cl. 501-60.000.
Thompson, James B.; and Junge, Brent A., 4,704,874, Cl. 62-187.000.
Thompson, Robert A.; and White, Robert S., 4,637,248, Cl. 73-37.500.
Titemore, Robert G.; and Patnode, Robert A., 4,662,263, Cl. 89-33.140.
Todaro, Frank A.; Castonguay, Roger N.; Krajewski, Alexander A.; and Morris, Robert A., 4,679,019, Cl. 335-172.000.
Todaro, Frank A.; Dziura, Richard A.; and Castonguay, Roger N., 4,700,161, Cl. 335-172.000.
Todaro, Frank A.; and Dougherty, John J., 4,706,158, Cl. 361-92.000.
Toops, Kenneth E., 4,645,996, Cl. 320-2.000.
Torossian, Kevork A.; Markovitz, Mark; and Cox, Frederick E., 4,692,499, Cl. 525-524.000.
Toub, Melvin R.; and Finney, Donald L., 4,640,956, Cl. 524-779.000.
Towlson, Howard E., 4,696,722, Cl. 204-6.000.
Traver, Frank J.; John, Simon M.; and Merrill, Duane F., 4,689,248, Cl. 427-168.000.
Traver, Frank J.; and Simoneau, Edward T., 4,699,988, Cl. 556-425.000.
True, Thomas T., 4,642,740, Cl. 362-268.000.
True, Thomas T., 4,679,070, Cl. 358-62.000.
Trzaskos, Casmir R.; and Young, John D., 4,659,956, Cl. 310-335.000.
Tsang, Joseph C.; Ghezzo, Mario; and Fuller, Robert T., 4,707,455, Cl. 437-57.000.
Tyrell, John A.; and Freimiller, Gary L., 4,661,567, Cl. 525-468.000.
Uhen, Richard F., 4,635,352, Cl. 29-598.000.
Ulug, Mehmet E., 4,649,535, Cl. 370-86.000.
Ulug, Mehmet E., 4,667,322, Cl. 370-85.000.
Ulug, Mehmet E., 4,682,324, Cl. 370-85.000.
Ulug, Mehmet E., 4,682,326, Cl. 370-89.000.
Ulug, Mehmet E., 4,701,910, Cl. 370-85.000.
Ulug, Mehmet E., 4,701,911, Cl. 370-85.000.
Ulug, Mehmet E., 4,707,830, Cl. 370-89.000.
Uzgiris, Egidijus E., 4,634,599, Cl. 427-2.000.
Uzgiris, Egidijus E.; and Yates, James R., 4,668,584, Cl. 428-408.000.
Valenty, Vivian B., 4,701,511, Cl. 528-26.000.
van der Meer, Roelof, 4,659,760, Cl. 524-141.000.
van der Meer, Roelof, 4,716,199, Cl. 525-92.000.
VanSchaick, Thomas E.; VanDusen, Morris V.; and Anderson, James M., 4,663,604, Cl. 336-96.000.
Van Sickler, Robert H., 4,679,126, Cl. 362-226.000.
Vatis, Dimitrios, 4,677,382, Cl. 324-307.000.
Vatis, Dimitrios; Bottomley, Paul A.; and Foster, Thomas H., 4,682,106, Cl. 324-307.000.
Vatis, Dimitrios; Smith, Lowell S.; and Edelstein, William A., 4,694,254, Cl. 324-309.000.
Vaughn, Steven T., 4,638,381, Cl. 360-51.000.
Vaughn, Steven T.; Bergholz, Eugene W.; Celek, John E.; Gohde, Lewis J.; and Peters, Michael A., 4,647,986, Cl. 360-35.100.
Vaughn, Steven T., 4,674,064, Cl. 364-900.000.
Vavrek, Robert M.; and Grigsby, Nancy S., 4,646,046, Cl. 335-301.000.
Vermilyea, Mark E., 4,698,611, Cl. 335-298.000.
Viertl, John R. M.; and Auger, Mederic E., 4,706,020, Cl. 324-238.000.
Villa, Gino; Johnson, John R.; and Hale, Alan A., 4,668,132, Cl. 407-117.000.
Vinson, John W.; Kwong, Pamela C.; and Sabla, Paul E., 4,653,278, Cl. 60-737.000.
Wakeman, Thomas G.; and Walker, Neil, 4,657,484, Cl. 416-127.000.
Walker, Edward S., 4,655,991, Cl. 376-245.000.
Walker, Loren H.; and Lezan, Georges R. E., 4,641,231, Cl. 363-58.000.
Wang, Samuel C.; and Swab, John M., 4,652,766, Cl. 250-578.000.
Wang, Samuel C.; Swab, John M.; Winn, Michael L.; and Gibbons, Martin D., 4,682,236, Cl. 358-213.260.
Watrous, Donald L., 4,675,777, Cl. 361-106.000.
Wattley, Mark D., 4,715,197, Cl. 62-515.000.
Webster, Harold F., 4,672,335, Cl. 333-22.00R.
Wei, Ching-Yeu; and Woodbury, Henry H., 4,672,412, Cl. 357-30.000.
Wei, Ching-Yeu; and Pimbley, Joseph M., 4,680,603, Cl. 357-23.300.
Welles, Kenneth B., II; Wojnarowski, Robert J.; and Eichelberger, Charles W., 4,646,151, Cl. 358-149.000.
Wengrovius, Jeffrey H.; and Lockhart, Thomas P., 4,667,007, Cl. 528-18.000.
West, Paul R.; and Davis, Gary C., 4,663,275, Cl. 430-271.000.

West, Paul R.; and Davis, Gary C., 4,709,107, Cl. 568-927.000.
Wheeler, James E.; Hardy, Robert M.; Dunki-Jacobs, Robert J.; and Premerlani, William J., 4,694,416, Cl. 364-736.000.
Whetten, Nathan R., 4,707,607, Cl. 250-385.000.
White, Charles M.; and Green, Wayne T., 4,710,725, Cl. 330-51.000.
White, Dwain M., 4,670,537, Cl. 528-390.000.
White, Robert W., 4,642,884, Cl. 29-596.000.
White, Robert W., 4,705,974, Cl. 310-89.000.
Wiedemann, Gustave F., 4,643,012, Cl. 72-134.000.
Wilczak, Boguslaw G.; Wilkus, Edward V.; and Wu, Alexander F., 4,647,602, Cl. 523-204.000.
Wildi, Eric J.; and Kohl, James E., 4,661,838, Cl. 357-23.800.
Willard, Henry G., 4,641,117, Cl. 335-7.000.
Williams, James W., 4,670,703, Cl. 320-22.000.
Wills, Harry D., 4,634,877, Cl. 250-551.000.
Wills, Harry D.; and Betthauser, Joseph L., 4,716,297, Cl. 250-551.000.
Wilson, Ronald H.; Stoll, Robert W.; and Calacone, Michael A., 4,653,428, Cl. 118-725.000.
Wimpee, Lealon C.; Sturtz, John P.; and Neissel, John P., 4,634,568, Cl. 376-154.000.
Wisler, David C., 4,645,417, Cl. 415-170.00R.
Wojciechowski, Charles R., 4,713,546, Cl. 250-374.000.
Wojnarowski, Robert J.; and Eichelberger, Charles W., 4,646,149, Cl. 358-143.000.
Wroczynski, Ronald J., 4,684,669, Cl. 521-90.000.
Wu, Alexander F.; and Walters, Robert B., 4,693,937, Cl. 428-389.000.
Yazvac, Thomas A., 4,683,517, Cl. 361-358.000.
Yerazunis, William S., 4,664,470, Cl. 350-1.100.
Yerman, Alexander J.; and Loughran, James A., 4,635,092, Cl. 357-68.000.
Yerman, Alexander J.; and Neugebauer, Constantine A., 4,646,129, Cl. 357-74.000.
Yerman, Alexander J.; and Loughran, James A., 4,716,124, Cl. 437-8.000.
Yilmaz, Hamza, 4,641,162, Cl. 357-23.400.
Yilmaz, Hamza, 4,682,195, Cl. 357-23.400.
Young, Glen C., 4,642,537, Cl. 318-254.000.
Youngborg, Lamont H., 4,650,633, Cl. 376-210.000.
Zarnoch, Kenneth P.; and Iacovangelo, Charles D., 4,695,489, Cl. 427-438.000.
Zinser, Richard L., Jr.; Silverstein, Seth D.; and Koch, Steven R. 4,649,505, Cl. 379-411.000.

General Electric Company, p.l.c., The: *See—*
Barnard, Joseph A.; and Pun, Edwin Y. B., 4,663,761, Cl. 372-45.000.
Bell, Raymond T.; and Morcom, Christopher J., 4,651,215, Cl. 358-213.000.
Caunce, Benjamin R. J., 4,706,156, Cl. 361-80.000.
Cresswell, Richard, 4,652,887, Cl. 343-766.000.
Davies, Richard A.; and Kelly, Michael J., 4,645,707, Cl. 428-213.000.
Dixon, Angus B.; Prest, Alan; and Thorpe, Paul, 4,677,338, Cl. 313-43.000.
Dixon, Angus B.; Prest, Alan; and Thorpe, Paul, 4,682,071, Cl. 313-43.000.
Ellis, Christopher W. H.; and Tritton, John A., 4,644,525, Cl. 370-29.000.
Fatatry, Ayman E., 4,652,081, Cl. 350-96.200.
Gray, Philip J., 4,677,405, Cl. 333-245.000.
Heard, Maurice C., 4,671,655, Cl. 356-227.000.
Jones, Keith L., 4,698,531, Cl. 307-592.000.
Law, Anthony G.; and Fleetwood, Michael J., 4,709,743, Cl. 164-463.000.
Niblock, John A.; Patel, Jayant; Fisher, Dennis; and Lumb, Anthony P., 4,638,432, Cl. 364-200.000.
Pearce, Timothy H. B., 4,651,131, Cl. 340-347.0AD.
Stephens, Philip E., 4,647,784, Cl. 250-561.000.
Wildblood, Robin; and Harcourt, Michael D., 4,668,042, Cl. 339-176.00M.
Winter, Trevor; and Macey, William, 4,714,930, Cl. 343-786.000.

General Electric Environmental Services, Inc.: *See—*
Saleem, Abdus, 4,690,807, Cl. 423-242.000.

General Engineering Radcliffe Limited: *See—*
Casey, Frank, 4,692,233, Cl. 204-298.000.
Casey, Frank; and Downing, Paul A., 4,693,803, Cl. 204-298.000.

General Exhibits: *See—*
Friedman, Arthur L., 4,642,926, Cl. 40-605.000.

General Food Corporation: *See—*
Barnett, Ronald E.; Zanno, Paul R.; and Roy, Glenn M., 4,698,231, Cl. 426-548.000.

General Foods Corporation: *See—*
Barnett, Ronald E.; Zanno, Paul R.; and Roy, Glenn M., 4,638,071, Cl. 549-88.000.
Barnett, Ronald E.; and Yarger, Ronald G., 4,642,240, Cl. 426-538.000.
Barnett, Ronald E.; Zanno, Paul R.; and Roy, Glenn M., 4,654,219, Cl. 426-548.000.
Barnett, Ronald E.; Riemer, Jed A.; and Zanno, Paul R., 4,664,929, Cl. 426-548.000.
Barnett, Ronald E.; Zanno, Paul R.; and Roy, Glenn M., 4,676,989, Cl. 426-548.000.
Coleman, Edward C.; Wagner, Jeffrey D.; Ballard, Donna J.; Stone, Catharine E.; Swallow, Nancy A.; and Carey, Nancy L., 4,640,837, Cl. 426-94.000.
Cuneo, Carol A.; and Lambert, Charles, 4,695,474, Cl. 426-579.00
Davidescu, Reghina; Striebel, Randy F.; and Hawks, Roger E. 4,671,964, Cl. 426-461.000.
Ehrlich, Robert M.; and Cox, Raymond E., 4,686,106, C 426-577.000.
Erb, William W.; LaSalle, Ernest R.; and Mahlmann, James E. 4,655,400, Cl. 241-29.000.
Frost, John R.; Sarich, Nancy J.; Ruff, John; and Hammond, Jo E., 4,652,458, Cl. 426-573.000.
Frost, John R.; Sarich, Nancy J.; Schenz, Timothy W.; and Gla Alfred C., 4,701,337, Cl. 426-548.000.
Fulger, Charles V.; and Gum, Ernest K., 4,656,040, Cl. 426-18.0
Fulger, Charles V.; and Gum, Ernest K., 4,710,386, Cl. 426-28.0
Glasser, George M.; DeRobertis, Robert P.; Smithwrick, John H. and Kelly, William J., 4,711,979, Cl. 219-10.55D.
Green, Timothy; Kaufman, Harry; and Jalovec, Charles, 4,660, Cl. 220-410.000.
Horan, William J.; and Schweid, Jeffrey M., 4,713,255, C 426-589.000.
Kenyon, Maynard A., 2nd, 4,669,630, Cl. 220-276.000.
Leusner, Steven J.; Raphael, Barbara C.; and Swanhart, Willi G., Jr., 4,696,826, Cl. 426-565.000.
McSweeney, Daniel R., 4,707,366, Cl. 426-96.000.
Meczkowski, Frank J.; and Triani, Ronald J., 4,696,824, C 426-102.000.
Meinhold, James F.; Musto, Joseph A.; Kramer, Karl C.; an Gottesman, Martin, deceased, 4,659,577, Cl. 426-387.000.
Rispoli, Joseph M.; Sawyer, Harold A.; Tewey, Robert T.; Wy Clement R.; and Maly, James E., 4,689,239, Cl. 426-578.00
Rogers, Ann M.; El-Hag, Nabil A.; and Shenouda, Soliman Y. K. 4,701,330, Cl. 426-270.000.
Roy, Glenn M.; Barnett, Ronald E.; and Zanno, Paul R., 4,65 Cl. 426 548.000.
Roy, Glenn M.; Barnett, Ronald E.; and Zanno, Paul R., 4,654 Cl. 562-503.000.
Roy, Glenn M.; Barnett, Ronald E.; and Zanno, Paul R., 4,666, Cl. 426-548.000.
Saleeb, Fouad Z.; and McKay, Randal P., 4,664,920, Cl. 426-74.0
Slade, Louise; Oltzik, Rhoda; Altomare, Robert E.; and Medo Darrell G., 4,657,770, Cl. 426-549.000.
Triani, Ronald J.; and Meczkowski, Frank J., 4,661,362, C 426-289.000.
Vietrogoski, Charles J.; Obarowski, Richard; and McDonou Paul J., 4,709,608, Cl. 83-355.000.
Vogel, Gerald J.; Kearney, Donald T.; Akpinar, Belkis K.; an Moorman, Charles T., 4,707,368, Cl. 426-386.000.
Von Fulger, Charles; and Lou, Wen C., 4,663,168, Cl. 426-28.0
Zanno, Paul R.; Barnett, Ronald E.; and Roy, Glenn M., 4,634,7 Cl. 560-169.000.
Zanno, Paul R.; Barnett, Ronald E.; and Roy, Glenn M., 4,636,3 Cl. 426-548.000.
Zanno, Paul R.; Barnett, Ronald E.; and Roy, Glenn M., 4,652,4 Cl. 426-548.000.
Zanno, Paul R.; Barnett, Ronald E.; and Roy, Glenn M., 4,652,6 Cl. 562-498.000.
Zanno, Paul R.; Barnett, Ronald E.; and Roy, Glenn M., 4,678,6 Cl. 426-548.000.
Zanno, Paul R.; Barnett, Ronald E.; and Roy, Glenn M., 4,678,6 Cl. 426-548.000.
Zanno, Paul R.; Barnett, Ronald E.; and Roy, Glenn M., 4,701,5 Cl. 562-498.000.
Zeller, Bary L.; McKay, Randal P.; and Saleeb, Fouad Z. 4,659,390, Cl. 127-29.000.

General Foods Hag: *See—*
Tapperman, Henry; Vitzthum, Otto G.; and Seekamp, Heinric 4,703,874, Cl. 222-198.000.

General Foods Inc.: *See—*
Brown, Catherine A.; and Eng, Jean L., 4,636,397, Cl. 426-579.00

General Foods Limited: *See—*
Healey, John C.; and Wragg, Anthony, 4,670,278, Cl. 426-387.00

General Hospital Corporation, The: *See—*
Gusella, James F., 4,666,828, Cl. 435-6.000.
Holick, Michael F.; and de Costa, Brian, 4,661,294, Cl. 260-397.2
Moore, Richard H.; Strauss, H. William; and Alpert, Nathaniel M. 4,633,881, Cl. 128-659.000.
Nathanson, James A., 4,652,586, Cl. 514-640.000.
Neer, Robert M.; Potts, John T., Jr.; and Slovik, David M. 4,698,328, Cl. 514-12.000.
Oseroff, Allan; Foley, James; Cincotta, Louis; and Parrish, John A. 4,651,739, Cl. 128-395.000.
Shouval, Daniel; Shafritz, David A.; and Wands, Jack R. 4,714,613, Cl. 424-86.000.

General Indicator Corporation: *See—*
Murray, Ledell L., 4,694,600, Cl. 40-518.000.

General Instrument Corporation: *See—*
Berman, Michael J., 4,653,114, Cl. 455-5.000.
Blumenkranz, Robert M.; and Gibbons, Mark A., 4,694,258, C 330-2.000.
Ching, Stephen; Babbitt, Frank B., Jr.; and Merchant, Adna 4,634,861, Cl. 250-231.0SE.
Ching, Steve, Babbitt, Frank, Jr.; Merchant, Adnan; and Yo Putt C., 4,633,582, Cl. 29-827.000.
Einthoven, Willem G., 4,638,551, Cl. 29-571.000.
Frezza, William; Simons, Robert; and Westerfer, Richar 4,712,239, Cl. 380-20.000.
Frezza, William A., 4,638,356, Cl. 358-118.000.

- Garbis, Danny; Chan, Joseph J.; Granata, Amadeo J.; Coniglione, Philip; Briglia, Thomas D.; and Laterza, Lawrence E., 4,659,400, Cl. 148-175.000.
- Hanchar, Peter J., 4,667,277, Cl. 362-250.000.
- Horne, Donald R., 4,685,131, Cl. 380-20.000.
- Horne, Donald R.; and Jeffers, John M., 4,694,491, Cl. 380-20.000.
- Kauffman, Marc W., 4,710,955, Cl. 380-10.000.
- Metcalfe, Richard J., 4,647,943, Cl. 343-916.000.
- Nickels, Richard C., Jr., 4,684,792, Cl. 235-384.000.
- O'Brien, Thomas E., Jr., 4,689,619, Cl. 340-825.080.
- Robbins, Clyde; and Marz, Daniel J., 4,646,150, Cl. 358-144.000.
- Sapitowicz, Thomas P.; and Stevens, Gerald S., Jr., 4,647,949, Cl. 346-140.00R.
- Sapitowicz, Thomas P., 4,695,171, Cl. 400-70.000.
- Stevens, Gerald S., Jr.; Sapitowicz, Thomas P.; and Davis, Edward D., 4,642,660, Cl. 346-140.00R.
- Stevens, Gerald S., Jr., 4,703,331, Cl. 346-140.00R.
- Trahan, Charles R., 4,672,440, Cl. 380-15.000.
- Zemke, Steven C., 4,670,743, Cl. 340-709.000.

General Ionex Corporation: *See*—
- Naylor, Harry, 4,712,012, Cl. 250-423.00R.

General Kap Corporation: *See*—
- Csaszar, Ernest J., 4,669,623, Cl. 215-252.000.

General Kap (P.R.) Corp.: *See*—
- Csaszar, Ernest J., 4,660,744, Cl. 222-147.000.

General Kinematics Corporation: *See*—
- Bond, Robert H.; and Kraus, Richard B., 4,685,504, Cl. 164-203.000.
- Danner, Gary A.; and Sherman, Raymond W., 4,715,950, Cl. 209-20.000.
- Musschoot, Albert; and Bond, Robert, 4,662,425, Cl. 164-131.000.
- Musschoot, Albert, 4,709,507, Cl. 51-7.000.
- Spence, James F., 4,679,708, Cl. 222-161.000.

General Laser, Inc.: *See*—
- Miller, Richard T.; and Sukhman, Yefim P., 4,671,848, Cl. 156-643.000.

General Microelectronics Corp.: *See*—
- Holz, Gary L., 4,699,871, Cl. 430-314.000.

General Mills, Inc.: *See*—
- Efstathiou, John D.; Dechaine, Robert; and Zoss, Robert, 4,676,988, Cl. 426-271.000.
- Getman, Harlan R., 4,715,275, Cl. 99-494.000.
- Mikulski, Barry S.; McDonald, Duane L.; and Deffenbaugh, Lynn B., 4,703,148, Cl. 219-10.55E.
- Palmer, Kenneth L., 4,681,770, Cl. 426-615.000.
- Seaborne, Jonathan; and Egberg, David C., 4,661,359, Cl. 426-59.000.
- Seaborne, Jonathan; and Egberg, David C., 4,710,228, Cl. 106-218.000.
- Zimmermann, Craig E.; Rustad, Stanley C.; and Gordon, Loren J., 4,662,411, Cl. 141-66.000.

General Mining Union Corporation, Limited: *See*—
- Rawlings, Douglas E.; and Woods, David R., 4,711,849, Cl. 435-91.000.

General Motors Corporation: *See*—
- Abu-Isa, Ismat A.; Eusebi, Elio; and Jaynes, Craig B., 4,661,546, Cl. 524-153.000.
- Abu-Isa, Ismat A., 4,684,382, Cl. 55-316.000.
- Agarwal, Paul D.; Hammersmith, Robert J.; and Kade, Alexander, 4,653,815, Cl. 303-100.000.
- Ahrens, William K., 4,693,084, Cl. 60-599.000.
- Alcini, William V.; and Avery, Steven L., 4,698,473, Cl. 219-10.790.
- Aldridge, Fredrick A., 4,688,263, Cl. 455-142.000.
- Algaier, Wayne F.; Tyjenski, Gerard M.; and Di Natale, Claude A., 4,684,432, Cl. 156-500.000.
- Alty, Mark C., 4,693,127, Cl. 74-25.000.
- Ament, Frank; Peden, Richard A.; and Labuhn, Pamela I., 4,653,315, Cl. 73-117.300.
- Anders, William S.; and Hallman, Steven J., 4,653,602, Cl. 180-79.100.
- Anderson, James L., 4,699,235, Cl. 180-247.000.
- Angi, Donald F.; Savage, Jack W.; and Unterborn, Ralph D., 4,659,951, Cl. 310-62.000.
- Angi, Donald F.; Connors, Kevin G.; Lehnhoff, Richard N.; and Savage, Jack W., 4,665,350, Cl. 318-254.000.
- Arnett, Richard K., 4,684,544, Cl. 427-96.000.
- Arnold, Philip D., 4,690,112, Cl. 123-195.00R.
- Baity, Donald N.; Schwandt, Gregory J.; and Kidwell, Charles E., 4,710,602, Cl. 200-315.000.
- Baker, Steven F., 4,711,202, Cl. 123-90.260.
- Ball, Daniel A., 4,707,768, Cl. 362-66.000.
- Ballantyne, David B., 4,679,285, Cl. 29-11.000.
- Bauer, Helmut; and Reuter, Karl F., 4,645,250, Cl. 293-115.000.
- Bayer, Dean M.; McCoy, Larry J.; Thomason, Chris A.; Tranbarger, Thomas P.; and Rodriguez, Marco E., 4,679,837, Cl. 293-102.000.
- Bazilio, Rayman E.; Hartz, James F.; and Ulian, Anthony R., 4,711,328, Cl. 188-296.000.
- Beck, Lawrence R.; Kocjan, Andrew J.; Natoli, Richard A.; and Liguore, Louis J., 4,684,765, Cl. 174-68.500.
- Beckwith, John R., 4,672,715, Cl. 16-334.000.
- Beckwith, John R., 4,706,334, Cl. 16-308.000.
- Beer, Wilhelm, 4,641,809, Cl. 248-559.000.
- Beer, Wilhelm, 4,643,270, Cl. 180-299.000.
- Beer, Wilhelm, 4,669,711, Cl. 267-140.100.
- Beer, Wilhelm, 4,693,217, Cl. 123-195.00A.
- Bell, Albert H., III; and Johnson, Jesse F., 4,639,194, Cl. 416-241.00B.
- Belleau, Gordon F.; Jelcin, Michael J.; and Verga, Charles F., 4,695,342, Cl. 156-173.000.
- Benton, Robert L., 4,643,041, Cl. 74-441.000.
- Berlinger, Gregory J.; and Speranza, Joseph J., 4,684,779, Cl. 219-121.0LD.
- Bhagat, Jayant K., 4,636,830, Cl. 357-38.000.
- Bhagat, Jayant K.; and Howarth, David S., 4,668,374, Cl. 204-412.000.
- Bilak, Vasil, 4,672,993, Cl. 137-322.000.
- Bilge, Umit; Scarpelli, August F.; Schwartz, Ronald E.; and Ross, John J., 4,711,984, Cl. 219-110.000.
- Bish, James R.; McCartney, Charles P., Jr.; and Meadows, Clarence A., 4,683,180, Cl. 429-130.000.
- Bolz, Richard; and Trutter, Walter P., 4,636,005, Cl. 297-379.000.
- Bonvallet, Duane J., 4,638,773, Cl. 123-90.160.
- Bonvallet, Duane J., 4,711,207, Cl. 123-198.00F.
- Booth, Thomas L.; Schlaps, Edgar H.; and Wilde, Ronald J., 4,683,975, Cl. 180-289.000.
- Borlinghaus, Hans J., 4,664,351, Cl. 248-396.000.
- Bowman, William E., 4,636,705, Cl. 322-28.000.
- Bowman, William E.; Voss, Richard J.; and Kirk, Thomas E., 4,636,706, Cl. 322-28.000.
- Boyer, James A.; Bridgewater, Bobbie D.; Warner, Donald C.; and Sturdivant, Jerry L., 4,706,639, Cl. 123-647.000.
- Brademeyer, David L.; and Welch, Timothy M., 4,633,669, Cl. 60-578.000.
- Brademeyer, David L.; and Welch, Timothy M., 4,640,098, Cl. 60-578.000.
- Brandenburg, Darrell L., 4,679,906, Cl. 350-281.000.
- Brann, David E.; and Lindsay, James E., 4,643,079, Cl. 92-222.000.
- Brown, Trevor J.; and Phillips, James E., 4,635,335, Cl. 29-235.000.
- Brown, Trevor J.; and Hoganson, Gerald G., 4,645,269, Cl. 301-37.00P.
- Budinski, John A., 4,683,768, Cl. 74-411.500.
- Byers, Robert G., 4,675,991, Cl. 29-623.100.
- Byford, Trevor K., 4,673,144, Cl. 242-107.40C.
- Byram, Robert J., 4,643,038, Cl. 74-397.000.
- Cagle, Philip V., 4,711,124, Cl. 73-162.000.
- Cameron, David S., 4,648,623, Cl. 280-711.000.
- Cameron, David S., 4,655,438, Cl. 267-8.00R.
- Carlson, Richard A., 4,684,818, Cl. 307-10.00R.
- Carpenter, Keith H.; Miller, Jon E.; and Murphy, John W., 4,642,502, Cl. 310-156.000.
- Cedoz, Robert W., 4,642,029, Cl. 416-129.000.
- Chana, Howard E., 4,672,862, Cl. 74-843.000.
- Chang, Shih-Chia; and Hicks, David B., 4,706,493, Cl. 73-23.000.
- Chatterjee, Madhu S., 4,639,279, Cl. 148-147.000.
- Chiesa, Alan F.; Medendorp, LeRoy E.; Perry, Edward C.; and Schweikert, John F., 4,671,107, Cl. 73-118.200.
- Chlumecky, Wayne E.; Cryder, John H.; Colombo, Robert A.; and Spenk, Robert E., 4,660,895, Cl. 303-75.000.
- Cinpinski, Kenneth J., 4,711,215, Cl. 123-425.000.
- Clark, David L., 4,664,267, Cl. 211-94.000.
- Clark, Roger A.; Doherty, Paul D.; and Tolnar, Emil J., Jr., 4,684,190, Cl. 439-587.000.
- Coleman, John R., 4,694,652, Cl. 60-585.000.
- Conroy, Lawrence J.; and Hayden, Richard A., 4,669,781, Cl. 297-355.000.
- Corrigan, Dennis A., 4,663,256, Cl. 429-223.000.
- Cotter, David H.; Teerman, Richard F.; and Timmer, Robert C., 4,684,067, Cl. 239-533.300.
- Cotton, Dale L.; and Nachman, Frank J., 4,714,576, Cl. 264-46.500.
- Covert, Charles H.; Gifford, William E.; Kemler, Craig G.; and Paddock, Gordon R., 4,714,485, Cl. 55-189.000.
- Craig, Gale M., 4,679,112, Cl. 361-33.000.
- Creps, Wendell D.; and Orrell, William B., 4,656,829, Cl. 60-277.000.
- Cross, William F.; Hillestad, Jeanne E.; and Plyler, Robert G., 4,711,509, Cl. 439-587.000.
- Cunningham, Gail M., 4,645,245, Cl. 285-321.000.
- Daberkoe, Charles W., 4,699,431, Cl. 301-1.000.
- Darling, Richard S.; Goodrich, Stanley R., Jr.; and Holzhausen, Alan D., 4,673,051, Cl. 180-132.000.
- Daum, Ronald E., 4,639,057, Cl. 339-17.00F.
- Daum, Ronald E.; Detter, Gary C.; and Spisak, Andrew M., 4,669,798, Cl. 439-423.000.
- Davis, Ronald G.; Denniston, Charles D.; and Van Skyock, Richard K., 4,711,265, Cl. 137-454.200.
- DeBolt, Richard R., 4,671,586, Cl. 439-126.000.
- DeHart, Arnold O.; and Symons, James D., 4,645,414, Cl. 415-83.000.
- Delmastro, John A., 4,661,030, Cl. 411-85.000.
- DeMinco, Chris M.; Field, Martin J.; and Judd, Richard K., 4,693,393, Cl. 220-374.000.
- DeMinco, Chris M.; Field, Martin J.; and Serth, Debra E., 4,703,738, Cl. 123-520.000.
- DeRocher, Benjamin K., 4,633,972, Cl. 381-188.000.
- Desai, Jatinbabu B.; Hinkle, Stanley J.; and Pearce, John F., 4,653,439, Cl. 123-52.0MV.
- Detampel, Heinz; Hillemann, Frank; Jobst, Wolfgang; and Prien, Manfred, 4,679,845, Cl. 296-192.000.
- Detter, Gary C.; Norling, Samuel A.; Penney, Janet S.; and Tolnar, Emil J., Jr., 4,634,204, Cl. 339-91.00R.
- Disser, Robert J., 4,673,851, Cl. 318-341.000.

Douglas, Barry D., 4,643,473, Cl. 294-111.000.
Douglas, Barry D.; and McCurdy, Frederick A., 4,679,956, Cl. 403-14.000.
Downs, Robert C.; Nitz, Larry T.; and Wanamaker, Joseph L., 4,653,350, Cl. 74-864.000.
Downs, Robert C.; and Nitz, Larry T., 4,653,351, Cl. 74-866.000.
Downs, Robert C., 4,664,242, Cl. 192-106.00F.
Downs, Robert C.; Nitz, Larry T.; Reichert, Frederick K.; and Wanamaker, Joseph L., 4,671,139, Cl. 74-866.000.
Downs, Robert C.; Nitz, Larry T.; and Wanamaker, Joseph L., 4,707,789, Cl. 364-424.100.
Drayer, William, 4,679,410, Cl. 62-503.000.
Drewek, David F., 4,673,205, Cl. 293-132.000.
Drewek, David F., 4,684,151, Cl. 280-784.000.
Dubrosky, Harry A., 4,683,912, Cl. 137-580.000.
Duvenkamp, Manfred, 4,711,494, Cl. 297-403.000.
Eckhardt, Dennis C., 4,711,224, Cl. 123-572.000.
Eesley, Gary L.; Mance, Andrew M.; and Meyer, Martin S., 4,637,862, Cl. 204-15.000.
Elliott, James O.; and Ricker, Dennis J., 4,642,538, Cl. 318-139.000.
Elliott, James O., 4,675,687, Cl. 343-715.000.
Elliott, James O.; and Monahan, Michael B., 4,678,973, Cl. 318-254.000.
Elliott, James O.; and Savage, Jack W., 4,694,210, Cl. 310-68.00R.
Epple, Peter C., 4,640,472, Cl. 242-107.000.
Eshleman, Edgar S.; Field, Martin J.; and Penwright, James L., 4,693,223, Cl. 123-468.000.
Fales, Douglas I.; and Roth, Robert A., 4,672,937, Cl. 123-509.000.
Fannin, Wayne V.; and Buchanan, Harry C., Jr., 4,685,545, Cl. 188-299.000.
Farkas, Frank J., 4,679,618, Cl. 165-71.000.
Farrand, Robert M.; Milton, Thomas J.; and McDow, William R., 4,691,587, Cl. 74-493.000.
Fetouh, Mohamed A., 4,684,267, Cl. 384-294.000.
Field, Martin J., 4,635,537, Cl. 92-98.00R.
Field, Martin J.; Makusij, Andrew J.; and Penwright, James L., 4,653,528, Cl. 137-269.000.
Fischer, Kurt F., 4,697,839, Cl. 294-115.000.
Fornuto, Joseph; Gifford, William E.; and Meyer, Karen M., 4,683,862, Cl. 123-520.000.
Fornuto, Joseph; Gifford, William E.; Nolan, Daniel; and Sherwood, Carl H., 4,706,708, Cl. 137-588.000.
Frost, Charles E.; and Elnick, Rodney K., 4,698,885, Cl. 29-156.50A.
Gallion, Georg A.; Bratke, Dieter N.; Helbig, Klaus; and Reuter, Karl F., 4,640,450, Cl. 224-331.000.
Gardlund, Zachariah G.; and Bator, MaryAnn, 4,673,722, Cl. 528-73.000.
Ghavamikia, Hamid, 4,664,862, Cl. 264-257.000.
Giacomazzi, Roy A.; and Rich, Gregory E., 4,673,009, Cl. 141-198.000.
Gionet, Edmond R., 4,671,571, Cl. 297-341.000.
Gloomis, Lawrence A.; and Ches, Gregory S., 4,638,533, Cl. 24-633.000.
Goding, David J.; and Ramos, Remigio R., 4,679,506, Cl. 105-136.000.
Gold, Thomas P.; and Vogel, John E., 4,664,363, Cl. 267-140.100.
Gold, Thomas P.; and Vogel, John E., 4,679,777, Cl. 267-140.100.
Goodbred, Neil G., 4,711,589, Cl. 384-34.000.
Gora, Hans-Joachim; and Lange, Bernhard, 4,646,704, Cl. 123-559.000.
Gorman, Michael J.; and McClellan, William R., 4,638,678, Cl. 74-476.000.
Graber, David W., 4,711,516, Cl. 350-96.150.
Graham, Donald E.; Kowalik, James J.; and Kade, Alexander, 4,665,488, Cl. 364-424.000.
Gray, Richard K., 4,644,023, Cl. 523-176.000.
Haag, Ronald H.; and Schlaps, Edgar H., 4,684,819, Cl. 307-10.00R.
Haerr, Timothy A.; and Parker, Donald L., 4,673,000, Cl. 137-860.000.
Hamren, Glen C., 4,711,119, Cl. 73-115.000.
Hartz, James F.; Bazilio, Rayman E.; and Ferguson, Michael R., 4,687,071, Cl. 180-9.100.
Hartz, James F., 4,706,785, Cl. 188-106.00F.
Harvey, Douglas J., 4,711,288, Cl. 164-34.000.
Heaston, Bruce A., 4,685,023, Cl. 361-88.000.
Heath, Peter W., 4,693,513, Cl. 297-284.000.
Helbig, Klaus, 4,676,493, Cl. 296-216.000.
Henry, Kenneth J.; and Kotwicki, Allan J., 4,680,959, Cl. 73-117.000.
Hodonsky, Joseph W., 4,679,779, Cl. 267-140.100.
Hoerig, Klaus; and Gora, Hans-Joachim, 4,664,219, Cl. 180-291.000.
Hoerig, Klaus; and Gora, Hans-Joachim, 4,679,649, Cl. 180-291.000.
Hoffman, Donald E.; and McDonald, David B., 4,683,913, Cl. 137-625.400.
Horvath, Richard A.; Rank, William E.; and Whelan, James E., 4,633,983, Cl. 188-322.140.
Horvath, Zoltan L.; Kavanagh, Gary A.; Manning, Steven F.; Pyszel, Ronald J.; Rogers, Lloyd W.; and Schlaps, Edgar H., 4,707,027, Cl. 297-284.000.
House, Ronnalee; and Kellams, Roger W., 4,684,202, Cl. 439-752.000.
Huesman, Edward H., 4,639,160, Cl. 403-71.000.
Hyde, A. P. Stanley; Persing, Thomas E.; and Helm, Eugene C
4,669,035, Cl. 362-326.000.
Iadipaolo, Rene M.; and Tkaczyk, Richard J., 4,678,920, C
250-560.000.
Jacob, Paravila O., 4,659,983, Cl. 324-51.000.
Jain, Kailash C.; and MacIver, Bernard A., 4,652,334, C
156-628.000.
Jandeska, William F., Jr.; and Rezhets, Vadim, 4,678,510, C
75-244.000.
Jensen, Edward J., 4,699,105, Cl. 123-425.000.
Jensen, Edward J., 4,699,107, Cl. 123-435.000.
Jobst, Wolfgang, 4,699,322, Cl. 239-503.000.
Johnston, Albert D.; Tengowski, Joseph L.; Steele, Ernest G.; a
Molloy, Edward W., 4,667,788, Cl. 192-45.000.
Johnston, Gary L.; and Lambert, Harvey J., 4,699,258, Cl. 1
58.00B.
Jones, Gregory S.; Steele, William H.; and Gurtcheff, Glenn A
4,635,475, Cl. 73-204.000.
Jozefczak, Thadius F., 4,692,960, Cl. 16-86.00A.
Jozefczak, Thadius F., 4,700,980, Cl. 296-1.00S.
Jung, James E.; Koors, Mark A.; and Lutz, Phillip A., 4,706,811, C
206-331.000.
Kabasin, Daniel F., 4,664,090, Cl. 123-494.000.
Kabasin, Daniel F., 4,711,218, Cl. 123-492.000.
Kade, Alexander; Hopkins, Harland G.; and Salman, Mutasim A.
4,664,453, Cl. 303-100.000.
Kade, Alexander, 4,673,225, Cl. 303-100.000.
Kanodia, Vinod L., 4,684,166, Cl. 296-146.000.
Kapanka, Harley L., 4,645,138, Cl. 242-107.40A.
Kayyod, Fariborz; Stuart, Richard J.; and Ogden, Jeffrey D.
4,711,156, Cl. 92-31.000.
Kayyod, Fariborz; Stuart, Richard J.; and Ogden, Jeffrey D.
4,711,157, Cl. 92-31.000.
Kayyod, Fariborz; and Hoffman, Donald E., 4,711,158, C
92-94.000.
Keen, Nickey D., 4,710,852, Cl. 361-386.000.
Kennedy, Richard A.; and Aldridge, Fredrick A., 4,657,066, C
455-223.000.
Ketelhut, Robert W.; and Kwiatkowski, Mark A., 4,653,143, C
16-124.000.
Kia, Hamid G., 4,675,231, Cl. 428-285.000.
Kidd, Richard L.; Graf, Jerry A.; Engler, Philip J.; and Lu, Sing
Chin S., 4,638,131, Cl. 200-61.550.
King, Donald J.; and Lederman, Frederick E., 4,679,676, C
192-45.000.
Kitzmann, Ronald A.; and Tchejeyan, Sarkis K., 4,694,130, C
200-314.000.
Klembus, Nancy M.; and Detter, Gary C., 4,684,188,
439-587.000.
Klemen, Donald, 4,683,776, Cl. 74-765.000.
Klomp, Edward D., 4,643,142, Cl. 123-90.280.
Klomp, Edward D., 4,693,420, Cl. 239-87.000.
Klomp, Edward D., 4,708,400, Cl. 301-38.00S.
Knable, Joseph J.; Ferdelman, Donald C.; and Bojanowski, Geral
M., 4,711,463, Cl. 280-668.000.
Kobrehel, Michael D., 4,706,412, Cl. 49-352.000.
Kopich, Leonard F., 4,685,531, Cl. 180-300.000.
Krehan, Peter; and Oppelt, Werner, 4,673,192, Cl. 280-668.00
Kroetsch, Karl P.; and Wolf, Peter G., 4,700,469, Cl. 29-726.00
Kruckemeyer, William C.; Buchanan, Harry C., Jr.; and Fann
Wayne V., 4,644,200, Cl. 310-43.000.
Kurtti, Gary R.; Ches, Gregory S.; Brender, David T.; and Sen
pole, John J., 4,684,077, Cl. 242-107.600.
Lam, Michael K.; Kazewych, Bohdan; and Kobrehel, Michael D.
4,672,771, Cl. 49-352.000.
Lambert, David K., 4,713,970, Cl. 73-861.050.
Lang, Steven C., 4,698,882, Cl. 24-289.000.
Lathers, Michael W.; and Bruning, Richard P., 4,711,496, C
297-452.000.
LeBlanc, Richard S., 4,638,715, Cl. 89-41.120.
LeBlanc, Richard S., 4,660,704, Cl. 193-38.000.
Lederman, Frederick E., 4,635,778, Cl. 192-85.0AA.
Lederman, Frederick E.; and Johnston, Albert D., 4,664,237, C
192-45.000.
Lederman, Frederick E., 4,708,497, Cl. 384-448.000.
Lederman, Frederick E., 4,711,330, Cl. 192-45.000.
Lederman, Frederick E.; and King, Donald J., 4,712,661, C
192-45.000.
Lederman, Frederick E., 4,714,803, Cl. 192-41.00R.
Lee, Michael C.; and Golden, Mark A., 4,714,740, Cl. 525-179.00
Lee, Robert W.; and Schaffel, Neal A., 4,710,239, Cl. 148-101.00
Lehnhoff, Richard N.; and Savage, Jack W., 4,678,972, C
318-254.000.
Lehnhoff, Richard N.; and Disser, Robert J., 4,710,685, C
318-287.000.
Licata, Joseph P.; and Sigler, Robert M., Jr., 4,670,695, C
318-443.000.
Licata, Joseph P.; and Kudla, David P., 4,672,709, Cl. 15-250.27
Lin, William C., 4,653,816, Cl. 303-106.000.
Lo, Wayne, 4,660,275, Cl. 29-569.00L.
Lockhart, Bruce D.; McCulloch, Dean E.; Tierney, Gordon L.
and Wehner, Cyrus A., 4,706,790, Cl. 192-3.300.
Longhouse, Richard E.; and Vona, Nick, 4,685,513, C
165-121.000.
Lopez-Crevillen, Jose M., 4,667,628, Cl. 123-195.00C.

Macey, James P.; and Vahabzadeh, Hamid, 4,644,820, Cl. 74-689.000.
Mair, Alexander C.; Allgaier, Leonhard; and DeHart, Arnold O., 4,693,642, Cl. 408-59.000.
Malopolski, William A., Jr., 4,663,801, Cl. 16-82.000.
Mance, Andrew M., 4,661,372, Cl. 427-54.100.
McCabe, Robert W.; and Mitchell, Patricia J., 4,673,556, Cl. 423-213.500.
McCartney, Charles P.; Susko, Edward W.; and Crouse, Joseph T., 4,673,625, Cl. 429-187.000.
McDermott, Michael G., 4,644,913, Cl. 123-425.000.
McDermott, Michael G.; and Nix, Larry L., 4,651,698, Cl. 123-425.000.
McMahan, David R.; and Nicholas, Richard W., 4,639,840, Cl. 362-80.000.
McMahan, David R.; and Geddie, John D., 4,709,305, Cl. 362-61.000.
McMahan, David R.; Hallgarth, Leslie H.; and Miller, Gary L., 4,712,164, Cl. 362-66.000.
McNeil, James E., 4,638,544, Cl. 29-434.000.
Mertens, Theobald, 4,703,828, Cl. 180-291.000.
Metzger, David B.; Johnson, Glenn S.; and Bramel, Michael D., 4,678,531, Cl. 156-250.000.
Miller, Gary T., 4,673,337, Cl. 417-273.000.
Miller, Gary T., 4,683,765, Cl. 74-60.000.
Miller, Gary T.; Marker, Richard L.; and Marker, Ronald E., 4,683,803, Cl. 92-71.000.
Miller, Larry D., 4,684,153, Cl. 280-808.000.
Moody, Joseph F.; and Yuille, Ronald D., 4,671,068, Cl. 60-602.000.
Moy, Howard; Thomas, James R.; and Droske, Donald J., 4,693,509, Cl. 296-201.000.
Muelling, Duane D.; Willett, Ronald J.; and Nimmo, Philip E., 4,645,320, Cl. 354-81.000.
Nagel, Gregory L.; Lee, Anthony; and Hill, Warren D., 4,678,887, Cl. 219-117.100.
Nagel, Gregory L.; Sidlosky, David M.; Murty, Balarama V.; Lee, Anthony; and Cleveland, Dixon, 4,694,135, Cl. 219-110.000.
Nagy, Laszlo, 4,679,455, Cl. 74-359.000.
Nagy, Louis L., 4,707,700, Cl. 343-712.000.
Nehmer, Carl A.; and Hocken, Lary R., 4,684,866, Cl. 318-696.000.
Nels, Terry E.; Eldridge, Larry; and Doty, Gerald L., 4,639,392, Cl. 428-283.000.
Nestor, Charles R.; Maga, Raymond A.; and Bensing, Gregory L., 4,679,885, Cl. 439-620.000.
Neuhalfen, Michael A.; Ridoux, Frank E.; and Edenborough, John S., 4,711,226, Cl. 123-609.000.
Neumann, Bernhard, 4,684,216, Cl. 350-279.000.
Nguyen, Chinh T.; and Smith, Stanley E., 4,652,415, Cl. 264-236.000.
Nitz, Larry T., 4,706,522, Cl. 74-866.000.
Nix, Larry L.; and McDermott, Michael G., 4,664,083, Cl. 123-425.000.
Nyberg, Glen A., 4,665,351, Cl. 318-483.000.
O'Brien, Gerald A., 4,694,676, Cl. 72-348.000.
Ochsner, Hans W., 4,706,967, Cl. 277-33.000.
Ogle, Douglas R.; Richey, Daniel D.; and Whitehurst, James L., 4,707,616, Cl. 290-48.000.
Paddock, Gordon R., 4,699,176, Cl. 137-885.000.
Parker, Barry R., 4,645,157, Cl. 248-311.200.
Parker, Donald L., 4,643,221, Cl. 137-516.290.
Parker, Donald L., 4,655,628, Cl. 403-163.000.
Parker, Donald L., 4,658,660, Cl. 74-102.000.
Parker, Donald L., 4,672,860, Cl. 74-512.000.
Pavlak, John J.; and Nestor, Charles R., 4,641,911, Cl. 339-276.00T.
Pennington, Edward J., 4,642,446, Cl. 219-121.0LD.
Petersen, Donald R., 4,644,747, Cl. 60-322.000.
Plavetich, Richard G., 4,699,418, Cl. 296-65.00R.
Plesniarski, Edward J.; Loose, Richard D.; and Capo, Juan M., 4,642,853, Cl. 24-163.00R.
Plyler, Robert G.; and Nestor, Charles R., 4,653,841, Cl. 339-176.00L.
Plyler, Robert G., 4,678,146, Cl. 248-56.000.
Plyler, Robert G.; and Garretson, Jay H., 4,687,270, Cl. 439-350.000.
Polak, James C., 4,679,454, Cl. 74-330.000.
Poulos, Stephen G., 4,664,075, Cl. 123-52.00M.
Pozniak, Donald J., 4,672,843, Cl. 73-117.300.
Pupillo, Dominic S.; and Scheff, Luben, 4,679,836, Cl. 292-216.000.
Radomski, Thomas A., 4,684,814, Cl. 290-31.000.
Radomski, Thomas A., 4,686,442, Cl. 320-17.000.
Rassaian, Mostafa, 4,679,507, Cl. 105-136.000.
Razinsky, Elias H.; Roberts, William B.; and Longhouse, Richard E., 4,692,098, Cl. 416-223.00R.
Renk, Rolf, 4,693,628, Cl. 403-135.000.
Rice, Hal H., 4,702,304, Cl. 164-529.000.
Richardson, Truman R., 4,683,974, Cl. 180-274.000.
Rider, Frederick H., Jr., 4,714,433, Cl. 439-310.000.
Rimmell, Herbert D.; and Perkins, John W., 4,711,527, Cl. 350-243.000.
Rohde, Steve M., 4,663,935, Cl. 60-414.000.
Royer, James R., 4,664,091, Cl. 123-494.000.
Ruhlandt, Gerald K.; and Gmurowski, Romuald, 4,706,732, Cl. 164-353.000.
Rusch, Randy A.; Kittle, Douglas A.; Ulfers, Bernhard G.; and Inman, Stephen L., 4,633,572, Cl. 29-576.00B.
Rusch, Randy A., 4,673,965, Cl. 357-43.000.
Rush, James H.; and Dobesh, Donald J., Sr., 4,699,323, Cl. 239-585.000.
Russell, Robert A.; Moore, Trevor J.; and Schafer, Timothy V., 4,644,853, Cl. 92-190.000.
St. Angelo, Stephen; Carver, George C.; Patterson, David W.; and Fremont, Owen K., 4,715,110, Cl. 29-701.000.
Sanders, Robert K., 4,679,593, Cl. 137-625.650.
Scarselletta, Louis, 4,645,000, Cl. 165-152.000.
Scarselletta, Louis, 4,693,307, Cl. 165-152.000.
Schad, Kurt, 4,634,088, Cl. 248-60.000.
Schad, Kurt, 4,645,190, Cl. 267-141.000.
Schaeffer, Eric S., 4,692,684, Cl. 322-90.000.
Schmitt, Fritz, 4,706,059, Cl. 337-297.000.
Schroeder, Diane M., 4,708,413, Cl. 439-358.000.
Schroeder, Thaddeus, 4,667,510, Cl. 73-117.300.
Schrom, Ralf-H.; and Baltes, Horst, 4,711,493, Cl. 297-379.000.
Schrom, Ralf-Henning; and Trutter, Walter P., 4,672,730, Cl. 29-241.000.
Schubert, Peter J., 4,714,685, Cl. 437-41.000.
Schubert, Peter J.; and Alvi, Nadeem S., 4,716,128, Cl. 437-41.000.
Sczomak, David P., 4,693,424, Cl. 239-453.000.
Sell, Jeffrey A., 4,652,120, Cl. 356-28.000.
Sell, Jeffrey A., 4,654,803, Cl. 364-510.000.
Shakespear, Horacio, 4,671,363, Cl. 296-185.000.
Sharma, Ram A., 4,680,055, Cl. 75-84.500.
Sheets, Gerald R.; and Geiger, Frederick A., 4,653,781, Cl. 285-319.000.
Shellhause, Ronald L., 4,706,784, Cl. 188-79.50B.
Shreve, John R.; and Kearney, Mark B., 4,684,877, Cl. 323-269.000.
Shu-Ti Lee, Peter; Majkowski, Richard F.; and Partin, Dale L., 4,684,805, Cl. 250-343.000.
Simancik, Carl D., 4,660,443, Cl. 74-878.000.
Skarvan, Charles A.; and Fisher, Stephen A., 4,693,077, Cl. 60-39.282.
Smith, Jack E., 4,711,190, Cl. 112-266.200.
Sofianek, Jay K.; Nally, John F.; Rush, James H.; Fuss, Robert L.; Williams, John E.; and Ruckey, Allan M., 4,646,974, Cl. 239-585.000.
Sovacool, David K.; Van Slyke, Allan S.; and Bungo, Edward M., 4,638,964, Cl. 248-56.000.
Spisak, Andrew M.; and Adduci, Robert L., 4,660,688, Cl. 188-299.000.
Sprenger, Willi, 4,707,591, Cl. 219-541.000.
Staub, Vincent M., Jr., 4,673,069, Cl. 188-331.000.
Stege, Jeffrey J., 4,653,457, Cl. 123-572.000.
Stegeman, George T., 4,699,094, Cl. 123-90.460.
Stenz, Karl; and Baltes, Horst, 4,707,033, Cl. 297-452.000.
Stolper, Richard; and Adler, Theo, 4,664,442, Cl. 297-216.000.
Stoltman, Donald D., 4,640,248, Cl. 423-399.000.
Stoltman, Donald D., 4,676,273, Cl. 137-625.610.
Stoltman, Donald D., 4,693,275, Cl. 137-625.650.
Sutton, Stephen J., 4,638,305, Cl. 340-620.000.
Sweet, Douglas W., 4,672,643, Cl. 377-47.000.
Swindlehurst, James A., 4,635,874, Cl. 242-107.40B.
Tackett, Timothy N., 4,671,589, Cl. 439-592.000.
Tata, Robert P., 4,645,432, Cl. 417-420.000.
Thebert, Glenn W., 4,683,714, Cl. 60-39.020.
Tobias, Jackie L.; Kline, Larry R.; and Moser, Ted O., 4,699,764, Cl. 420-563.000.
Trick, William A.; and Loges, Joseph T., 4,698,999, Cl. 73-49.800.
Trombley, Douglas E., 4,706,628, Cl. 123-425.000.
Trutter, Walter P., 4,684,175, Cl. 297-379.000.
Vahabzadeh, Hamid, 4,684,358, Cl. 474-148.000.
Vahabzadeh, Hamid, 4,710,879, Cl. 364-424.100.
Van Cise, Kenneth L., Jr., 4,679,417, Cl. 70-247.000.
Van Duyn, Paul D.; and Geddie, John D., 4,679,178, Cl. 362-306.000.
Van Duyn, Paul D.; and Geddie, John D., 4,703,399, Cl. 362-66.000.
Van Duyn, Paul D., 4,707,769, Cl. 362-66.000.
Van Duyn, Paul D., 4,707,770, Cl. 362-66.000.
Van Duyn, Paul D.; McMahan, David R.; Geddie, John D.; and Nagengast, William E., Jr., 4,707,771, Cl. 362-66.000.
VanSickle, Richard A., 4,663,979, Cl. 74-7.00A.
Varterasian, John H., and Blaser, Dwight A., 4,653,327, Cl. 73-579.000.
Vivace, Robert T., 4,706,453, Cl. 60-271.000.
Vonhausen, Georg, 4,638,977, Cl. 251-248.000.
Voss, Karl D.; Datte, Mark A.; and Ruff, Gary F., 4,641,703, Cl. 164-255.000.
Voss, Karl D., 4,658,880, Cl. 164-255.000.
Wagner, Earl F.; and Smith, Charles M., 4,684,101, Cl. 249-144.000.
Walsh, Phillip D., 4,654,761, Cl. 362-80.000.
Wang, Chen-Shih; and Nelson, Darrel S., 4,662,969, Cl. 156-253.000.
Wang, Su-Chee S.; and Tung, Simon C., 4,714,529, Cl. 204-56.100.
Weber, Frederick C., 4,684,279, Cl. 403-136.000.
Westercamp, Kenneth L.; Kurecka, Donald J.; and Yeack, David C., 4,683,971, Cl. 180-79.100.
Wight, Robert D.; and Wokasien, Carlyle H., 4,664,234, Cl. 188-322.210.
Wigner, Lauren R.; and Pandak, Zoltan I., 4,673,542, Cl. 264-46.700.
Wintersteen, Douglas C., 4,633,679, Cl. 62-474.000.
Wintersteen, Douglas C., 4,698,985, Cl. 62-474.000.

  - Wlodarczyk, Marek T.; Krage, Mark K.; and O'Rourke, Michael J., 4,678,903, Cl. 250-227.000.
  - Wonn, Quinby E., 4,643,283, Cl. 192-3.330.
  - Wycech, Joseph S., 4,695,343, Cl. 156-196.000.
  - Zimmermann, Klaus; Thomas, Michael J.; and Bailey, Norman R., 4,635,498, Cl. 74-501.00R.
- General Oceanics, Inc.: *See—*
  - Niskin, Shale J.; and Williams, Gerald J., 4,690,380, Cl. 254-394.000.
- General Research of Electronics, Inc.: *See—*
  - Imazeki, Kazuyoshi, 4,636,796, Cl. 342-443.000.
  - Imazeki, Kazuyoshi; and Koyama, Seizi, 4,668,952, Cl. 342-20.000.
  - Imazeki, Kazuyoshi; and Yokoyama, Nobuaki, 4,679,245, Cl. 455-155.000.
- General Safety Corporation: *See—*
  - Fisher, Alfred J., III; and Schmidt, Timothy J., 4,692,294, Cl. 264-259.000.
- General Scanning, Inc.: *See—*
  - Flowers, Peter T., 4,694,235, Cl. 318-662.000.
  - Montagu, Jean I., 4,655,543, Cl. 350-6.600.
  - Montagu, Jean I., 4,694,212, Cl. 310-90.000.
  - Paulsen, Dean R., 4,673,876, Cl. 324-208.000.
- General Screw Products Company: *See—*
  - Nimberger, Spencer M., 4,655,251, Cl. 137-516.290.
  - Nimberger, Spencer M., 4,672,728, Cl. 29-157.00R.
- General Services Engineering, Inc.: *See—*
  - Hoffman, Gary R., 4,660,035, Cl. 340-870.020.
- General Signal Corporation: *See—*
  - Auer, John H., Jr.; and Petit, William A., 4,711,418, Cl. 246-5.000.
  - Barankin, Froim; Kendiroglu, Migirdic; and Micheletti, Beyrouth B., 4,700,167, Cl. 336-192.000.
  - Blome, Eugene R., 4,679,689, Cl. 206-334.000.
  - Carlson, William L., Jr., 4,640,492, Cl. 251-163.000.
  - Dobrzanski, John J., 4,654,644, Cl. 340-630.000.
  - Dobrzanski, John J., 4,672,217, Cl. 250-574.000.
  - Ehrler, Arthur J., 4,708,721, Cl. 55-40.000.
  - Engle, Thomas H.; and Parker, John W., 4,652,057, Cl. 303-3.000.
  - Engle, Thomas H., 4,653,812, Cl. 303-33.000.
  - Engle, Thomas H., 4,673,063, Cl. 188-1.110.
  - Engle, Thomas H., 4,702,291, Cl. 105-35.000.
  - Ferguson, Harry D.; Lee, Kar-Kui; Oliver, William; Kwong, Fat-Cho; Young, Ronald; Hammell, Jim; Morrow, Keith; and Chaudhary, Rashid A., 4,673,920, Cl. 340-521.000.
  - Glaudel, Stephen P.; and Grissom, Paul H., 4,689,736, Cl. 364-140.000.
  - Hartung, Russell M., 4,637,579, Cl. 246-452.000.
  - Homer, John C.; and Lutz, Gilbert F., 4,668,478, Cl. 422-159.000.
  - Janvrin, Robert B., 4,664,017, Cl. 91-420.000.
  - Latka, Henry C., 4,710,258, Cl. 156-601.000.
  - Maher, Joseph A.; Vowles, E. John; Napoli, Joseph D.; Zafiropoulo, Arthur W.; and Miller, Mark W., 4,715,921, Cl. 156-345.000.
  - Moore, Rogers A.; O'Brien, Joseph R.; and Brown, David O., 4,656,313, Cl. 174-35.00R.
  - Pappano, Thomas W.; and Brown, David O., 4,639,719, Cl. 340-652.000.
  - Pichat, Alfred, 4,686,450, Cl. 323-282.000.
  - Porzky, Ludwig, 4,669,181, Cl. 29-611.000.
  - Sutton, Gary, 4,642,019, Cl. 414-525.00R.
  - Sutton, Gary, 4,694,858, Cl. 137-596.000.
  - Trainer, Michael N., 4,648,274, Cl. 73-517.00R.
  - Vaughn, Lawrence E., 4,714,297, Cl. 303-33.000.
  - Weiss, Edward L., 4,683,374, Cl. 250-227.000.
  - Westveer, Robert C.; and Vandervoort, John K., 4,655,689, Cl. 417-53.000.
  - Wolaver, Dan H.; and Little, Warren E., 4,682,116, Cl. 328-167.000.
- General Spice, Inc.: *See—*
  - Scheide, Jurgen D.; and Brand, Karl E., 4,704,289, Cl. 426-431.000.
- General Telephone Co. of Florida: *See—*
  - Horton, Harold E.; and Roberts, Joseph B., 4,707,850, Cl. 379-29.000.
  - Horton, Harold E.; and Roberts, Joseph B., 4,707,851, Cl. 379-29.000.
- General Telephone Company of Indiana: *See—*
  - Clark, Roger L.; Ray, Dennis D.; and Martin, James L., 4,641,338, Cl. 379-328.000.
  - Hoff, Terry E., 4,701,699, Cl. 324-133.000.
  - Plouff, Donald A., 4,696,026, Cl. 379-34.000.
- General Tire, Inc.: *See—*
  - Street, Robert W., 4,694,580, Cl. [illegible]-32.600.
- General Trailer Co.: *See—*
  - Schmidt, Kenneth J., 4,705,288, Cl. 280-405.00R.
- Generale de Transport et d'Industrie: *See—*
  - Leroux, Alain; Fourtet, Jean P.; Hennard, Jean; and Trouillet, Andre, 4,642,018, Cl. 414-502.000.
- Genereaux, Eugene P. Filing cabinet with pivotal drawer. 4,662,690, 5-5-87, Cl. 312-323.000.
- Genereaux, Eugene P.; Jameson, Samuel M.; and Brooks, Timothy K. Clamping apparatus. 4,696,460, 9-29-87, Cl. 269-6.000.
- Genereaux, Eugene P. Apparatus for storing objects. 4,699,437, 10-13-87, Cl. 312-248.000.
- Genest, Bernard, to Gaz de France. Stable mixtures of chlorofluorohydrocarbons and solvents and their use as heat transfer compositions for absorption heat pumps. 4,710,312, 12-1-87, Cl. 252-68.000.
- Genest, Leonard J.; and Calvagna, James F., to Genest, Leonard J. Method of code changing for electronic lock. 4,646,080, 2-24-87, Cl. 340-825.310.
- Genest, Leonard J. Multi-access security system. 4,677,284, 6-30-87, C 235-487.000.
- Genest, Leonard J. Security system. 4,703,163, 10-27-87, C 235-382.000.
- Genest, Leonard J. Electronic key code recording device. 4,711,99 12-8-87, Cl. 235-449.000.
- Geneste, Michel; and Jacquart, Christian, to International Busine Machines Corp. Line interface circuit. 4,656,643, 4-7-87, C 375-10.000.
- Genestier, Gerard: *See—*
  - Besson, Raymond; Delaite, Richard; Genestier, Gerard; Maitr Pierre; Renard, Georges; Thiebaud, Daniel; and Valentin, Jea Pascal, 4,705,982, Cl. 310-356.000.
- Genet, Alain: *See—*
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- Genetic Systems Corporation: *See—*
  - Nowinski, Robert C.; and Hoffman, Allan S., 4,711,840, C 435-7.000.
  - Rose, Lynn M.; Clark, Edward A.; and Ledbetter, Jeffrey A. 4,677,061, Cl. 435-39.000.
- Genetics Institute, Inc.: *See—*
  - Benner, Steven A., 4,638,032, Cl. 525-54.110.
  - Clark, Steven C.; Kaufman, Randal J.; and Wong, Gordon G. 4,675,285, Cl. 435-6.000.
  - Hewick, Rodney M.; and Seehra, Jasbir S., 4,677,195, C 530-397.000.
- Genetics International, Inc.: *See—*
  - Higgins, Irving J.; Hill, Hugh A. O.; and Plotkin, Ellio V. 4,711,245, Cl. 128-635.000.
- Geneva Group of Companies, Inc.: *See—*
  - De brey, Robert J., 4,641,391, Cl. 15-104.940.
- Genevois, Jean L.; Lucia, Antonio; and Di Fabio, Emidio. Unit fo regenerating the heat produced by exhaust gases in movable heart furnaces used for baking or rebaking carbonaceous materia 4,636,169, 1-13-87, Cl. 432-90.000.
- Genex Corporation: *See—*
  - McGuire, Jeffrey C.; Montgomery, John P.; and Yang, Huei-Hs ing, 4,636,466, Cl. 435-108.000.
  - McGuire, Jeffrey C., 4,681,850, Cl. 435-254.000.
- Genfoot, Inc.: *See—*
  - Champagne, Michel R., 4,707,874, Cl. 12-142.00E.
- Gengenbach, Bruno; Michal, Roland; and Radbruch, Jens, to Doduc KG Dr. Eugen Durrwachter. Electric power circuit breake 4,644,118, 2-17-87, Cl. 200-144.00R.
- Genicom Corporation: *See—*
  - Greer, Jerry L., 4,706,561, Cl. 101-93.010.
  - Hewlett, Clarence W., Jr., 4,683,818, Cl. 101-93.040.
  - Lim, Sam K., 4,710,045, Cl. 400-352.000.
  - Miller, Donald E., 4,637,307, Cl. 101-93.040.
- Genis, Johan C.: *See—*
  - Magrobi, Brian, 4,683,735, Cl. 70-168.000.
- Genma, Keiji: *See—*
  - Maenishi, Kozo; Genma, Keiji; Sano, Takezo; Tanaka, Toshiki; and Sato, Shigenobu, 4,656,733, Cl. 29-602.00R.
  - Maenishi, Kozo; Genma, Keiji; Sano, Takezo; Tanaka, Toshiki; and Sato, Shigenobu, 4,658,226, Cl. 335-127.000.
- Genna, Robert T. Mechanical and acoustical vibration reduction apparatus for turntables and speaker enclosures. 4,687,173, 8-18-87, C 248-603.000.
- Gennari, Federico, to Bioresearch SpA. Carnitine salts particularly suitable for oral use. 4,673,534, 6-16-87, Cl. 260-501.120.
- Gennery, Donald B., to United States of America, National Aeronautic and Space Administration. Neighborhood comparison operator 4,703,513, 10-27-87, Cl. 382-27.000.
- Gennser, Gerhard M.: *See—*
  - Benthin, Morten; Dahl, Philip I.; Gennser, Gerhard M.; and Lindstrom, Kjell O. T., 4,660,564, Cl. 128-660.000.
- Geno, Wayne H.; and Weitzenhof, David A., to Firestone Tire & Rubber Company, The. Air spring suspension system. 4,712,776, 12-15-87, Cl. 267-64.210.
- Genoa, Joseph; Kaskel, Harold; and Nelson, Carl, to Atlantic Vacuum Parts Corp. Electrified vacuum cleaner hose adapter. 4,652,063, 3-24-87, Cl. 339-15.000.
- Genot, Claude M.: *See—*
  - Neiger, Henri J. C.; Genot, Claude M.; Prud'Hon, Gerard C.; and Schoens, Michel, 4,678,184, Cl. 272-129.000.
- Genova, John Frank: *See—*
  - Schoepflin, Stephen L., 4,685,238, Cl. 42-90.000.
- Genovese, John S.; Grazul, Edwin C.; Meisner, David J.; and Wright Francis M., to American Standard Inc. Multi-layer composite structure. 4,664,982, 5-12-87, Cl. 428-447.000.
- Genovese, Louis M. Football training apparatus. 4,706,964, 11-17-87, Cl. 273-413.000.
- Genovese, Vincent P.; and Levine, Lance R. Vacuum cleaner bag with oscillating tube. 4,675,032, 6-23-87, Cl. 55-96.000.
- GenRad, Inc.: *See—*
  - Gudaitis, Algird M., 4,686,391, Cl. 307-354.000.
- Genrich, Thad J., to Motorola, Inc. Low spurious numerically controlled oscillator apparatus and method. 4,636,734, 1-13-87, C 328-55.000.
- Gensberger, Karl, to Flutec Fluidtechnische Gerate GmbH. Device for conveyance of a pressure medium, especially oil. 4,648,809, 3-10-87, Cl. 417-366.000.

- Genschow, Henning; Heisel, Uwe; and Schuster, Joachim, to Werner and Kolb Werkzeugmaschinen GmbH. Flexible manufacturing unit. 4,711,016, 12-8-87, Cl. 29-568.000.
- Gensheimer, Valentin: *See*—
  - Kemmerer, Klemens; Gensheimer, Valentin; and Melzer, Rudolf, 4,693,362, Cl. 198-803.700.
- Gensini, Gianni: *See*—
  - Pittini, Andrea; and Gensini, Gianni, 4,644,559, Cl. 373-104.000.
- Gensler, Thomas: *See*—
  - Ladeburg, Jorg; Becker, Robert; Dreymann, Bernhard; Gensler, Thomas; Ulrich, Robert; Wahrenbruch, Paul; and Blaser, Reinhard, 4,672,166, Cl. 219-110.000.
- Genssler, Hans-Peter; and Lotter, Kurt, to Messerschmitt-Bolkow-Blohm GmbH. Apparatus for improving aerodynamic flow conditions at the air intake of gas turbine engines. 4,655,413, 4-7-87, Cl. 244-53.00B.
- Genstar Structures Limited: *See*—
  - Armitage, J. Herbert, 4,680,901, Cl. 52-81.000.
- Gent, Derek J.; and Bergstrom, Michael, to U.S. Philips Corporation. Line output circuit for generating a line frequency sawtooth current. 4,695,774, 9-22-87, Cl. 315-408.000.
- Genter, Claude: *See*—
  - Arnoux, Daniel; Genter, Claude; Anton, Christian; and Nascimben, Eric, 4,704,575, Cl. 324-117.00H.
  - Arnoux, Daniel; Genter, Claude; and Anton, Christian, 4,708,422, Cl. 350-96.150.
  - Arnoux, Daniel; Genter, Claude; Anton, Christian; and Forme, Jacques, 4,716,412, Cl. 340-753.000.
- Gentex Corporation: *See*—
  - Bauer, Frederick T., 4,680,576, Cl. 340-630.000.
  - Clarke, Steven R.; Price, John B.; Sallavanti, Robert A.; and Zawislak, Stephen P., 4,698,956, Cl. 57-2.000.
  - Piorkowski, Gary J.; and Giacomini, William P., 4,676,236, Cl. 128-201.230.
  - Westgate, Charles A., 4,700,410, Cl. 2-423.000.
  - Westgate, Charles A., 4,713,844, Cl. 2-411.000.
  - Wilcox, Orland W., 4,677,977, Cl. 128-206.240.
- Genth, Hermann: *See*—
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  - Oeckl, Siegfried; Schade, Gerold; Schmitt, Hans-Georg; Paulus, Wilfried; and Genth, Hermann, 4,647,687, Cl. 558-439.000.
  - Oeckl, Siegfried; Reinecke, Paul; Brandes, Wilhelm; Kuck, Karl-Heinz; Paulus, Wilfried; and Genth, Hermann, 4,661,632, Cl. 564-217.000.
- Gentile Brothers Screen Printing, Inc.: *See*—
  - Gentile, Stephan F.; and Gentile, Mark A., 4,636,179, Cl. 402-79.000.
- Gentile, Mark A.: *See*—
  - Gentile, Stephan F.; and Gentile, Mark A., 4,636,179, Cl. 402-79.000.
- Gentile, Stephan F.; and Gentile, Mark A., to Gentile Brothers Screen Printing, Inc. Folder. 4,636,179, 1-13-87, Cl. 402-79.000.
- Gentili, Fred: *See*—
  - Walsh, David J.; Lougheed, William M.; Gentili, Fred; and Fazl, Mahmood, 4,657,019, Cl. 128-334.00C.
- Gentili, Robert P.: *See*—
  - Harrison, David M.; Gentili, Robert P.; and Bellucci, George N., 4,683,922, Cl. 141-9.000.
- Gentilman, Richard L., to Raytheon Company. Laser hardened missile casing. 4,686,128, 8-11-87, Cl. 428-44.000.
- Gentilman, Richard L.: *See*—
  - Maguire, Edward A.; Hartnett, Thomas M.; and Gentilman, Richard L., 4,686,070, Cl. 264-1.200.
- Gentiluomo, Joseph A. Washing machine fluid discharge monitoring unit. 4,684,327, 8-4-87, Cl. 417-38.000.
- Genton, Hubert: *See*—
  - Merle, Etienne; and Genton, Hubert, 4,635,056, Cl. 340-870.360.
- Gentry, Cecil C.; and Small, William M., to Phillips Petroleum Company. Heat exchanger. 4,633,940, 1-6-87, Cl. 165-159.000.
- Gentry, Cecil C., to Phillips Petroleum Company. Method for varying shell fluid flow in shell and tube heat exchanger. 4,635,707, 1-13-87, Cl. 165-1.000.
- Gentry, Cecil C., to Phillips Petroleum Company. Method for gas treatment of a bed of particles. 4,696,734, 9-29-87, Cl. 208-407.000.
- Gentry, Cecil C.; and Small, William M., to Phillips Petroleum Company. Heat exchanger. 4,709,755, 12-1-87, Cl. 165-160.000.
- Gentry, Charles B.; and Dietz, David R., to Granco-Clark, Inc. Temperature control system. 4,675,826, 6-23-87, Cl. 364-477.000.
- Gentry, Gene E.; and Bain, John H., Jr., to Gabb Corporation. Inflatable radar reflector. 4,673,934, 6-16-87, Cl. 342-8.000.
- Gentry, Kenneth R.; and Nikolich, Michael, to Levitt-Safety Limited. Intrinsically safe miner's lamp. 4,634,936, 1-6-87, Cl. 315-307.000.
- Gentry, William G., to AMP Incorporated. Shielded flexible cable. 4,644,092, 2-17-87, Cl. 174-36.000.
- Gentry, William G.: *See*—
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- Genty, Alain: *See*—
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- Gentzler, David L.: *See*—
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- Genuit, Klaus, to Head Stereo GmbH, Kopfbezogene Aufnahme-und Weidergabetechnik & Co. Method and apparatus for simulating outer ear free field transfer function. 4,672,569, 6-9-87, Cl. 364-801.000.
- Genuit, Luther L., to Honeywell Bull Inc. Transformer tap changer. 4,694,241, 9-15-87, Cl. 323-340.000.
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- Genus, Inc.: *See*—
  - Mahawili, Imad, 4,680,447, Cl. 219-343.000.
  - McInerney, Edward J.; Dornseif, E. Ronald; and Zetterquist, Norman E., 4,690,746, Cl. 204-192.320.
- Genz, Matthew L. R.; and Villman, Bruce. Pulse-sonic jet nozzle. 4,671,056, 6-9-87, Cl. 60-39.770.
- Genzyme Corporation: *See*—
  - Blair, Henry E., 4,649,108, Cl. 435-22.000.
- Geo-Centers, Inc.: *See*—
  - Mermelstein, Marc D., 4,687,993, Cl. 324-244.000.
- Geo International Corporation: *See*—
  - Gergin, Emile, 4,675,600, Cl. 324-158.00P.
- GEO Operator Corporation: *See*—
  - Hirtz, Paul N., 4,661,459, Cl. 436-25.000.
- Geo-Thermal Systems, Inc.: *See*—
  - Ravin, Robert H., 4,658,771, Cl. 123-142.50R.
- Geobra Brandstatter GmbH & Co. KG: *See*—
  - Brandstatter, Horst, 4,636,585, Cl. 379-167.000.
- Geodynamics Corporation: *See*—
  - Smith, Paul S.; and Carothers, John S., 4,675,901, Cl. 379-387.000.
- Geodynamik H. Thurner AB: *See*—
  - Sandstrom, Ake, 4,647,247, Cl. 404-75.000.
- GeoEnergy International, Corp.: *See*—
  - Norman, Dan A.; and Frazier, Stanley J., 4,675,029, Cl. 55-11.000.
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- Geoghegan, Edward J.: *See*—
  - Panoz, Donald E.; and Geoghegan, Edward J., 4,663,150, Cl. 424-494.000.
- Geohegan, David B.: *See*—
  - Eden, James G.; and Geohegan, David B., 4,649,059, Cl. 427-38.000.
- Geohegan, Kenneth P., Jr.; and Allen, Charles W., to Westinghouse Electric Corp. Sonar navigation system. 4,635,240, 1-6-87, Cl. 367-89.000.
- Geomatic: *See*—
  - Strom, James A., 4,649,741, Cl. 73-84.000.
- Geomation, Inc.: *See*—
  - Klebba, John M.; and Hultman, Kenneth L., 4,695,920, Cl. 361-118.000.
- Geometrics, Inc.: *See*—
  - Smith, Kenneth R., 4,646,275, Cl. 367-67.000.
- Geophysical Company of Norway A.S.: *See*—
  - Benestad, Otto; Hatteland, Kjell; and Fredriksen, Paul, 4,635,237, Cl. 367-20.000.
  - Dragsund, Inge; and Gjestrum, Einar, 4,716,553, Cl. 367-15.000.
  - Gjestrum, Einar; Dragsund, Inge; Skog, Just; and Selvag, Svein, 4,686,660, Cl. 367-153.000.
  - Larsen, Eigil; Lien, Eldar; and Snook, Clive, 4,679,178, Cl. 367-157.000.
- Geophysical Engineering Company: *See*—
  - Assaf, Gad, 4,685,617, Cl. 237-81.000.
  - Assaf, Gad, 4,704,189, Cl. 159-48.200.
  - Assaf, Gad, 4,704,993, Cl. 122-21.000.
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  - Harmuth, Henning F., 4,651,152, Cl. 342-13.000.
- Georg Fischer Aktiengesellschaft: *See*—
  - Bernath, Oskar, 4,681,003, Cl. 83-80.000.
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  - Brenner, Peter; Fiala, Heinrich; and Walter, Wolfgang, 4,662,125, Cl. 51-419.000.
  - Davatz, Kaspar; Hilpert, Bruno; and Hunziker, Bruno, 4,667,928, Cl. 251-315.000.
  - Fehr, Kurt; Henych, Ivo; and Pavlovsky, Rudolf, 4,666,133, Cl. 266-216.000.
  - Gerber, Urs; Gerber, Erich; Hofer, Peter; Fischer, Erwin; Lusuardi, Werther; Gysel, Walter; Baggi, Roland; Rogg, Eduard; and Gut, Karl, 4,665,794, Cl. 89-36.020.
  - Gut, Karl; and Henych, Ivo, 4,657,588, Cl. 420-20.000.
  - Henych, Ivo; and Pavlovsky, Rudolf, 4,655,273, Cl. 164-323.000.
  - Hilpert, Bruno; and Hunziker, Bruno, 4,647,003, Cl. 251-14.000.
  - Hofmann, Franz; Trapp, Hans G.; Rietzscher, Rolf; Otto, Jurgen; Kaettlitz, Wolfgang; and Trinki, Gerd, 4,713,180, Cl. 210-773.000.
  - Kopp, Hans, 4,699,433, Cl. 301-6.00S.
  - Mueller, Wilhelm; Overath, Friedhelm; and Weyer, Michael, 4,702,498, Cl. 285-55.000.
  - Steinemann, Robert, 4,690,163, Cl. 137-8.000.
  - Thalmann, Alfred; Lehmann, Ernesto; Roth, Emil; and Gerber, Walter, 4,642,154, Cl. 156-272.200.
  - Thalmann, Alfred, 4,655,480, Cl. 285-21.000.
  - Thalmann, Alfred; and Lehmann, Ernesto, 4,670,078, Cl. 156-274.200.
  - Thalmann, Alfred, 4,697,831, Cl. 285-174.000.
- Georg Knoblauch, Firma: *See*—
  - Budert, Gunter H., 4,682,688, Cl. 206-1.500.

- Georg Rost & Sohne Armaturenfabrik GmbH & Co. KG: *See—*
  - Strangfeld, Reiner, 4,662,395, Cl. 137-614.190.
  - Strangfeld, Reiner, 4,676,477, Cl. 251-15.000.
- Georg Utz AG: *See—*
  - Boeniger, Hanspeter, 4,700,855, Cl. 213-75.0TC.
- Georgalas, Gregory: *See—*
  - Jones, Marshall G.; and Georgalas, Gregory, 4,676,586, Cl. 350-96.200.
- Geo. A. Hormel & Co.: *See—*
  - Helsene, Larry E.; and Regner, Kenneth P., 4,662,029, Cl. 17-52.000.
  - Leining, Lyndon R., 4,653,150, Cl. 17-23.000.
  - Leining, Lyndon R., 4,662,028, Cl. 17-1.00R.
  - Leining, Lyndon R., 4,682,387, Cl. 17-49.000.
- George, Abner H., Jr., to Liberty Diversified Industries, Inc. Circuit board carrier. 4,664,265, 5-12-87, Cl. 211-41.000.
- George, Achilles N. Inversion apparatus. 4,690,133, 9-1-87, Cl. 128-25.00R.
- George, Bengt-Goran, to AB Nordstroms Linbanor. Screw conveyor. 4,645,067, 2-24-87, Cl. 198-666.000.
- George, Benjamin B., Jr., to Tivoli Industries, Inc. Decorative light tubing and method of manufacture thereof. 4,665,470, 5-12-87, Cl. 362-236.000.
- George Blair P.L.C.: *See—*
  - Hewitt, Paul, 4,694,556, Cl. 29-451.000.
- George Blair PLC: *See—*
  - Reynard, Kenneth, 4,648,636, Cl. 292-39.000.
- George Blair Public Limited Company: *See—*
  - Reynard, Kenneth, 4,690,442, Cl. 292-218.000.
- George, Burrell F. Visual metronome. 4,649,794, 3-17-87, Cl. 84-484.000.
- George C. Moore Co.: *See—*
  - Guay, Normand D., 4,714,096, Cl. 139-391.000.
- George, David B.: *See—*
  - Masterson, Ian F.; George, David B.; and Rudloff, Frecerick A., 4,657,586, Cl. 75-76.000.
- George, David L.; and Benson, Raymond G., Jr., to Uniden Corp. of America. Transceiver battery charging apparatus and method. 4,684,870, 8-4-87, Cl. 320-20.000.
- George, Dennis L. Keeper for machine tools and the like. 4,684,302, 8-4-87, Cl. 409-233.000.
- George E. Failing Company, Inc.: *See—*
  - Jones, Ernest L.; and Bradford, Steven K., 4,664,222, Cl. 181-113.000.
- George, Elias W.: *See—*
  - Gimpelson, George E.; and George, Elias W., 4,652,812, Cl. 324-65.00R.
  - Gimpelson, George E.; Rivoli, Anthony L.; Gasner, John T.; and George, Elias W., 4,666,737, Cl. 427-89.000.
- George, Eric R.; and Porter, Roger S. Liquid crystal polymer method and composition. 4,650,836, 3-17-87, Cl. 525-444.000.
- George Fischer Ltd.: *See—*
  - Rietzscher, Rolf; Dersch, Stefan; and Riethmann, Max, 4,711,290, Cl. 164-66.100.
- George, Flint R., to Halliburton Company. Gravity oriented perforating gun for use in slanted boreholes. 4,637,478, 1-20-87, Cl. 175-4.510.
- George, Flint R.; and Smith, Marlin R., to Halliburton Company. Borehole devices actuated by fluid pressure. 4,650,010, 3-17-87, Cl. 175-4.520.
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- George, Flint R.; and Smith, Marlin R., to Halliburton Company. Gun firing head. 4,690,227, 9-1-87, Cl. 175-4.560.
- George, Flint R.: *See—*
  - Vann, Roy R.; Brieger, Emmet F.; George, Flint R.; Colle, Edward A., Jr.; and Jones, Hilton B., 4,635,733, Cl. 175-4.560.
  - Wesson, David S.; Edwards, A. Glen; George, Flint R.; George, Kevin R.; and Brieger, Emmert F., 4,658,902, Cl. 166-317.000.
- George, Frederick D.; Jaffe, Jeffrey M.; and Moss, Franklin H., to International Business Machines Corporation. Automatic update of topology in a hybrid network. 4,644,532, 2-17-87, Cl. 370-94.000.
- George, Frederick W. Vacuum fitting ski boot. 4,654,986, 4-7-87, Cl. 36-119.000.
- George Frost Company: *See—*
  - Jurga, Stanley M., 4,692,946, Cl. 2-22.000.
- George Hartmann GmbH & Co. KG: *See—*
  - Hartmann, Hans, 4,687,231, Cl. 283-82.000.
- George, Harvey F.; and Oppenheimer, Robert H., to Gravure Association of America. Method and apparatus for transferring ink in gravure printing. 4,697,514, 10-6-87, Cl. 101-170.000.
- George, Henry J.; Krzyzek, Richard A.; Enquist, Lynn W.; and Watson, Roger J., to Molecular Genetics Research and Development Limited Partnership. Co-aggregate purification of proteins. 4,673,641, 6-16-87, Cl. 435-68.000.
- George, J. Richard: *See—*
  - Eckert, Donald C.; George, J. Richard; Lilley, George L.; Sensenig, Darryl L.; and Tshudy, James A., 4,654,244, Cl. 428-47.000.
- George, James H.: *See—*
  - Horlenko, Theodore; and George, James H., 4,665,216, Cl. 560-142.000.
- George, John B., to RCA Corporation. Kinescope driver with kinescope current sensing circuit. 4,642,696, 2-10-87, Cl. 358-243.000.
- George, Kenneth D.: *See—*
  - Schaefer, Edward J.; and George, Kenneth D., 4,684,837, C 310-87.000.
- George Kesel GmbH & Co. KG: *See—*
  - Heine, Werner, 4,664,365, Cl. 269-246.000.
- George, Kevin R.: *See—*
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- George Koch Sons, Inc.: *See—*
  - Spindler, Irvin, 4,696,254, Cl. 118-610.000.
  - Stofleth, David F.; and Muehlbauer, James H., 4,687,686, C 427-421.000.
  - Tredwell, Gilman; Kraft, Kenneth N.; and Ampon, Felix 4,702,174, Cl. 104-172.200.
- George, Martin C. J., to Stone Allen Limited. Heating syste 4,638,767, 1-27-87, Cl. 122-448.00B.
- George, Melvin J., to Ford Motor Company. Flexible printed circ connector. 4,640,561, 2-3-87, Cl. 339-17.00F.
- Geo. P. Reintjes Co., Inc.: *See—*
  - Johnson, Steven L.; Adams, Martin E.; Leffingwell, James Musser, John J.; Hedges, William H.; and Robberts, Thomas 4,669,242, Cl. 52-404.000.
- George, Pascal; and Giron, Claude, to Synthelabo. 3-acylaminome thylimidazo[1,2-a]pyridine derivatives and pharmaceutical compo tions containing them. 4,650,796, 3-17-87, Cl. 514-213.000.
- George, Pascal; and De Peretti, Danielle, to Synthelabo. Imidazo a)quinoline derivatives useful as anxiolytic agents. 4,675,323, 6-23- Cl. 514-292.000.
- George, Peter T. Nocturnal airway-patency appliance. 4,715,3 12-29-87, Cl. 128-136.000.
- George, Raymond A.: *See—*
  - Dollard, Walter J.; Doshi, Pratap K.; and George, Raymond 4,710,340, Cl. 376-209.000.
- George, Rita M.: *See—*
  - Adlam, Arthur H.; Wittbrodt, Donald R.; Scully, Andrew Smith, Roger R.; Tuteja, Balbir S.; Currier, Theodore George, Rita M.; Yopp, Roger W.; and Hussaini, Syed M 4,671,162, Cl. 89-1.130.
- George, Robert D.; and Banning, Robert D., to Sherwood Medic Company. Syringe. 4,693,709, 9-15-87, Cl. 604-212.000.
- George, Robert D.: *See—*
  - Edwards, Christopher J.; George, Robert D.; and Sherlock, Pa 4,633,887, Cl. 128-762.000.
- George, Robert W., II: *See—*
  - Maddox, James F.; Kadonoff, Mark B.; Berger, Alan D.; Taiva oski, Amy L.; George, Robert W., II; and Benayad-Che Faycal E., 4,710,020, Cl. 356-1.000.
  - Muller, Lon J.; Franklin, Austin; and George, Robert W., 4,701,893, Cl. 367-87.000.
- George, Ronald W.; Ohmart, James G.; Irlesberger, Kurt H.; Michae Lawrence L.; and Engelhaupt, Darell E., to Martin Marietta Corpo ration. Apparatus and method for controlling plating induced stress electroforming and electroplating processes. 4,648,944, 3-10-87, C 204-1.00T.
- George Spiess GmbH: *See—*
  - Marass, Josef, 4,703,924, Cl. 271-9.000.
- George, Stephen; and George, Thomas H., to Subtex, Inc. High tempe ature flame and heat resistant foamed plastics. 4,647,500, 3-3-87, C 428-313.300.
- George, Stephen; and George, Thomas H., to Subtex, Inc. Structure made using an inorganic-binder composition. 4,659,610, 4-21-87, C 428-198.000.
- George, Steven L.: *See—*
  - Burger, Mark E.; George, Steven L.; and Ngai, Chuck H. 4,635,194, Cl. 364-200.000.
- George, Terence M., to Westinghouse Brake and Signal Compa Limited. Circuit using a multi-path magnetic core with commo output limb. 4,652,776, 3-24-87, Cl. 307-407.000.
- George, Thazhuthekudiyil V.: *See—*
  - Lanigan, John J., Sr.; Glickman, Myron; George, Thazhuthekudiyil V.; and Ermel, Bernard A., 4,715,762, Cl. 414-126.00
- George, Thomas H.: *See—*
  - George, Stephen; and George, Thomas H., 4,647,500, C 428-313.300.
  - George, Stephen; and George, Thomas H., 4,659,610, C 428-198.000.
- George, Thomas R., Jr.: *See—*
  - Lochhead, Robert Y.; George, Thomas R., Jr.; and Banks, Willia L., 4,668,731, Cl. 524-474.000.
- George, Ulf; Rochau, Erwin; Merk, Hans; and Behnke, Joachim, Licentia Patent-Verwaltungs-GmbH. Method for purifying silicon oil. 4,661,612, 4-28-87, Cl. 556-450.000.
- George Weston Ltd.: *See—*
  - Lawford, Hugh G., 4,647,534, Cl. 435-162.000.
- George, William: *See—*
  - Bouchard, Andre C.; Grossman, Mark; and George, William 4,689,031, Cl. 445-26.000.
- George, William A., to Black & Decker Inc. Rachet system for han held tool. 4,635,502, 1-13-87, Cl. 74-625.000.
- George, William A.: *See—*
  - Grossman, Mark W.; and George, William A., 4,661,078, C 445-9.000.
  - Grossman, Mark W.; and George, William A., 4,678,550, Cl. 24 105.00R.
  - Grossman, Mark W.; George, William A.; and Maya, Jako 4,698,547, Cl. 313-485.000.

George, William M.: *See*—
- Wescoat, Jimmie E.; and George, William M., 4,648,310, Cl. 98-1.000.

George, Zacharia M.: *See*—
- Kessick, Michael A.; George, Zacharia M.; and Schneider, Linda G., 4,661,240, Cl. 208-127.000.

Georgens, Harold H.; and Christensen, Dean L., to Data Electronics, Inc. Magnetic tape cartridge with increased data track packing density. 4,635,155, 1-6-87, Cl. 360-132.000.

Georgens, Harold H.; and Christensen, Dean L., to Data Electronics, Inc. Magnetic tape cartridge with increased data packing density. 4,642,721, 2-10-87, Cl. 360-132.000.

Georges, Cordier, to Rhone-Poulenc Agrochimie. Process for the preparation of meta-chloroanilines. 4,647,700, 3-3-87, Cl. 564-412.000.

Georges, Jean-Pierre: *See*—
- Cousin, Daniel; Garnier, Jean-Francois; and Georges, Jean-Pierre, 4,692,862, Cl. 364-200.000.

Georges, Philippe, to Institut de Recherches de la Siderurgie Francaise. Induction heating system for reheating the edges of a metallurgical product and variable air gap inductor associated therewith. 4,708,325, 11-24-87, Cl. 266-90.000.

Georges, Richard P.; and Epperson, George B. Plant protection system. 4,642,938, 2-17-87, Cl. 47-2.000.

Georgetown University: *See*—
- Feller, William F.; and Kantor, Judith A., 4,657,851, Cl. 435-7.000.
- Korec, Stefan, 4,634,417, Cl. 604-4.000.
- Ledley, Robert S.; and Gersten, Douglas M., 4,716,225, Cl. 536-122.000.
- McPherson, Eugene; and Schein, Philip S., 4,656,159, Cl. 514-25.000.

Georgia Kaolin Company, Inc.: *See*—
- Koppelman, Mitchell H.; and Migliorini, Ingrid K., 4,650,521, Cl. 106-309.000.
- Smith, James M., Jr., 4,642,904, Cl. 34-9.000.
- Willis, Mark S., 4,687,546, Cl. 159-2.100.

Georgia-Pacific Corporation: *See*—
- Blackmore, Kenneth A. E., 4,704,230, Cl. 252-502.000.
- Booth, Vernard, 4,650,112, Cl. 229-157.000.
- De Luca, Raymond F., 4,679,703, Cl. 221-52.000.
- Fowler, George F., Jr.; and Lehnert, Charles W., 4,695,494, Cl. 428-71.000.
- Jespersen, Paul W.; and DeLuca, Raymond F., 4,671,466, Cl. 242-55.300.
- Lehnert, Charles W.; and Randall, Brian G., 4,647,496, Cl. 428-251.000.
- Neal, John A., 4,668,416, Cl. 252-70.000.
- Rasmussen, Holger, 4,712,461, Cl. 83-334.000.
- Wilson, Glenn E.; and Lehnert, Charles W., 4,664,707, Cl. 106-18.110.

Georgia-Pacific Resins, Inc.: *See*—
- Bornstein, Leopold F., deceased; and Fillingame, Gary P., 4,661,412, Cl. 428-426.000.

Georgia Research Foundation: *See*—
- Kerr, Thomas J.; and Kerr, Robert D., 4,643,899, Cl. 426-2.000.

Georgia Tech Research Corporation: *See*—
- Browner, Richard F.; and Willoughby, Ross C., 4,687,929, Cl. 250-282.000.
- Dittman, William J.; and Ward, Luther S., 4,702,710, Cl. 439-271.000.
- Legg, Keith O., 4,696,829, Cl. 427-38.000.
- Matteson, Michael J., 4,697,451, Cl. 73-64.400.
- Myerson, Allan S.; and Ernst, William R., 4,698,321, Cl. 502-25.000.
- Powers, James C., 4,659,855, Cl. 558-23.000.
- Tedder, Daniel W., 4,692,432, Cl. 568-916.000.
- Vito, Raymond P.; and Boehm, H. Russell, 4,688,559, Cl. 128-80.00F.

Georgia Tech Research Institute: *See*—
- Greneker, Eugene F., III, 4,660,038, Cl. 342-26.000.

Georgiev, Georgi A.: *See*—
- Popov, Entcho N.; Apostolov, Rumen K.; Georgiev, Georgi A.; Katzarov, Hristo B.; and Penkov, Julii S., 4,658,167, Cl. 310-156.000.
- Popov, Entcho N.; Stanilov, Krestyo A.; Apostolov, Rumen K.; Dundarov, Pantcho G.; Radkov, Peyu V.; Aderski, Pentcho K.; and Georgiev, Georgi A., 4,695,754, Cl. 310-156.000.

Georgiev, Vassil S.; Mullen, George B.; and Swift, Patricia A., to Pennwalt Corporation. 2-(substituted amino)-2-[2-hydroxy-2-alkyl (or phenyl)ethyl]tricyclo[3.3.1.1^{3,7}]decane hydrohalides. 4,649,222, 3-10-87, Cl. 564-459.000.

Georgiev, Vassil S.; and Saeva, Grace A., to Pennwalt Corporation. 2-adamantanone oxide carbamate derivatives. 4,652,680, 3-24-87, Cl. 564-255.000.

Georgiev, Vassil S.; and Mullen, George B., to Pennwalt Corporation. Spiro[isoxazalidine-3,2'-tricyclo[3.3.1.1^{3,7}] decanes]. 4,683,311, 7-28-87, Cl. 548-240.000.

Georgiev, Vassil S.; and Mullen, George B., to Pennwalt Corporation. Adamantyl phenyl β alanines. 4,691,051, 9-1-87, Cl. 562-443.000.

Georgiev, Vassil S.; and Mullen, George B., to Pennwalt Corporation. Adamantane-spirolactams. 4,692,515, 9-8-87, Cl. 540-203.000.

Georgiev, Vassil S.; and Mullen, George B., to Pennwalt Corporation. Substituted α-[2'-tricyclo[3.3.1.1^{3,7}]decylidene]-benzeneacetic acid derivatives. 4,705,891, 11-10-87, Cl. 562-491.000.

Georgii, Hans C., to AB Hydro Betong. Method of making a structural body. 4,673,453, 6-16-87, Cl. 156-256.000.

Georgiou, Christos J., to International Business Machines Corporation. Full-duplex one-sided cross-point switch. 4,635,250, 1-6-87, Cl. 370-58.000.

Georgiou, George E.; and Poli, Gary N., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Selective electroless plating of vias in VLSI devices. 4,692,349, 9-8-87, Cl. 437-230.000.

Georgis, Paul F., II. Remote temperature alarm for stoves. 4,712,095, 12-8-87, Cl. 340-584.000.

Georgitsis, Nikolaos: *See*—
- Schneider, Ortwin; and Georgitsis, Nikolaos, 4,641,534, Cl. 73-856.000.
- Schneider, Ortwin; and Georgitsis, Nikolaos, 4,708,023, Cl. 73-863.310.

Georgopoulos, George, to Levolor Lorentzen, Inc. Apparatus for producing simultaneously a plurality of Venetian blinds. 4,639,987, 2-3-87, Cl. 29-24.500.

Georgopoulos, Panayotis, to Northwestern University. EXAFS spectrometer. 4,642,811, 2-10-87, Cl. 378-53.000.

Geoservices: *See*—
- Issenmann, Olivier, 4,684,946, Cl. 340-855.000.

Geosource Inc.: *See*—
- Mueller, Allan H.; Perkins, Dean P.; and Evans, Rhys M., 4,692,912, Cl. 367-190.000.
- Mueller, Allan H.; and Perkins, Dean P., 4,706,231, Cl. 367-190.000.
- Vitringa, Frederick A.; and Hagedoorn, Arend L., 4,685,094, Cl. 367-183.000.
- Wales, C. Ernest; and Peterson, Mitchell F., 4,680,741, Cl. 367-189.000.

Geostock and Distrigaz: *See*—
- Boulanger, Alain; and Luyten, Walter, 4,671,700, Cl. 405-56.000.

Geotech Engineering: *See*—
- Russell, Michael J., 4,713,800, Cl. 367-144.000.

Geotechnical Resources Ltd.: *See*—
- Owen, Lawrence B.; Masterson, Daniel M.; and Green, Sidney J., 4,637,217, Cl. 62-74.000.

Geothermal Energy Development Corporation: *See*—
- Markovitch, Peter; and Klepesch, Philip H., 4,641,498, Cl. 60-641.200.

Geotronics AB: *See*—
- Kosakowski, Alex S.; and Lundqvist, Mats A., 4,712,915, Cl. 356-152.000.

Gephart, Don A.; and Powell, Jeffrey M., to Liebert Corporation. UPS apparatus with control protocols. 4,709,318, 11-24-87, Cl. 363-37.000.

Geppaard, Adrianus, to Glaverbel. Manufacturing drawn sheet glass. 4,636,237, 1-13-87, Cl. 65-95.000.

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Gerace, Anthony. Internal combustion engine and operating cycle therefor. 4,635,590, 1-13-87, Cl. 123-27.00R.

Gerace, Michael J.; Krysiak, Gary D.; and Schiappacasse, Russell F., to Protective Treatments, Inc. Compatible bedding composition for organically sealed insulating glass. 4,699,940, 10-13-87, Cl. 524-296.000.

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Gerard, Guy, to Fabrique de fer de Maubeuge. Process of galvanizing for consecutively producing two different coatings on a metal band. 4,645,694, 2-24-87, Cl. 427-431.000.

Gerard, Jean-Louis; Berthet, Pierre; Bricot, Claude; and Audoin, Michel, to Thomson-CSF. Process and system for optical recording and reading on a mobile data carrier. 4,669,077, 5-26-87, Cl. 369-275.000.

Gerard, Jean-Louis; and Le Marchand, Claude, to Bendix France. Spring for a disc brake, and disc brake equipped with such a spring. 4,673,065, 6-16-87, Cl. 188-73.380.

Gerard, Jean-Louis; and Bricot, Claude, to Thomson CSF. Mobil pre-etched data carrier. 4,674,081, 6-16-87, Cl. 369-275.000.

Gerard, Jean-Louis; and Loret, Marc, to Thomson-CSF. Process and device for regenerating the phase of synchronizing signals in a data carrier optical write-read apparatus. 4,704,711, 11-3-87, Cl. 369-59.000.

Gerard, Jean-Louis: *See*—
- Le Marchand, Claude; and Gerard, Jean-Louis, 4,635,760, Cl. 188-71.900.
- Le Marchand, Claude; and Gerard, Jean-Louis, 4,691,809, Cl. 188-71.900.
- Lombardi, Michel; and Gerard, Jean-Louis, 4,641,730, Cl. 188-73.450.

Gerard, Laurence S.: *See*—
- Gerard, Mark P.; and Gerard, Laurence S., 4,668,407, Cl. 252-8.000.

Gerard, Marcillat, to Societe Francaise d'Equipements pour la Navigation Aerienne (S.F.E.N.A.). Accelerometer sensor with flat pendular structure. 4,663,972, 5-12-87, Cl. 73-517.00R.

Gerard, Mark P.; and Gerard, Laurence S. Fire extinguishing composition and method for preparing same. 4,668,407, 5-26-87, Cl. 252-8.000.

Gerard, Philippe: *See*—
- Capra, Thierry; and Gerard, Philippe, 4,711,694, Cl. 156-603.000.

Gerasimova, Galina A.: *See*—
- Babaian, Eduard A.; Gerasimova, Galina A.; Davydov, Anatoly B.; Utyamyshev, Rustam I.; Khromov, Gennady L.; Metelitsa, Vladimir I.; Vikhert, Anatoly M.; Savvateev, Konstantin L.; Piotrovsky, Vladimir K.; and Novikova, Elizaveta B., 4,713,239, Cl. 424-81.000.

Gerault, Patrice, to Compagnie Lyonnaise de Transmissions Optiques, S.A. Apparatus for removing dust from the atmosphere around a tube. 4,666,487, 5-19-87, Cl. 65-11.100.

Geray, Jacques; and Monroy, Gerard, to Auxilec. DC-DC converter with chopping switch and transformer. 4,660,134, 4-21-87, Cl. 363-20.000.

GERB Gesellschaft fur Isolierung mbH & Co., KG: *See—*

Weber, Frank-Michael, 4,648,577, Cl. 248-562.000.

Gerbaud, Claude; and Tetard, Claude, to SMH Alcatel. Label selector for franking machines. 4,652,330, 3-24-87, Cl. 156-361.000.

Gerbe, Jean-Pierre, to Thomson CSF. Airborne system for display of collimated images. 4,697,879, 10-6-87, Cl. 350-174.000.

Gerber Baby Products: *See—*

Wise, Robert D., 4,634,175, Cl. 297-183.000.

Gerber, Bernard V. Muffin baking pan for producing muffin with open cavity. 4,653,392, 3-31-87, Cl. 99-439.000.

Gerber, Curtis E. Fruit harvesting machine. 4,674,265, 6-23-87, Cl. 56-332.000.

Gerber, David W., to Babcock & Wilcox Company, The. Rotating pipe joint having a floating seal. 4,659,114, 4-21-87, Cl. 285-11.000.

Gerber, David W.; and Untch, Frederick M., to Babcock & Wilcox Company, The. Labyrinth articulation joint for regenerative air heater seal frame. 4,705,098, 11-10-87, Cl. 165-4.000.

Gerber, Erich: *See—*

Gerber, Urs; Gerber, Erich; Hofer, Peter; Fischer, Erwin; Lusuardi, Werther; Gysel, Walter; Baggi, Roland; Rogg, Eduard; and Gut, Karl, 4,665,794, Cl. 89-36.020.

Gerber Garment Technology: *See—*

Pearl, David R.; and Weiselfish, Jacob, 4,675,497, Cl. 219-121.0LG.

Weiselfish, Jacob; and Collins, George, 4,700,633, Cl. 104-102.000.

Gerber Garment Technology, Inc.: *See—*

Nymark, Roald P., 4,712,485, Cl. 104-172.400.

Pearl, David R.; and Wolfson, Lawrence S., 4,646,911, Cl. 198-689.100.

Pearl, David R., 4,665,619, Cl. 33-32.400.

Pearl, David R., 4,672,172, Cl. 219-121.0LG.

Vaida, Robert; and Osthus, Harold, 4,667,602, Cl. 104-253.000.

Gerber, Hannelore, Silvia Gerber, Eberhard Gerber, Bernhard Gerber, legal representatives: *See—*

Spruck, Bernd; and Gerber, Siegfried, deceased, 4,714,823, Cl. 250-205.000.

Gerber, Hans; and Reber, Markus, to Scintilla AG. Electrically driven hand-operated tool. 4,689,534, 8-25-87, Cl. 318-305.000.

Gerber, Heinz J., to Gerber Scientific Inc. Marking apparatus. 4,640,222, 2-3-87, Cl. 118-697.000.

Gerber, Heinz J., to Gerber Scientific Inc. Rotary blade sheet material cutter with sharpener. 4,643,061, 2-17-87, Cl. 83-174.100.

Gerber, Heinz J., to Gerber Scientific Inc. Cutting apparatus with heated blade for cutting thermoplastic fabrics and related method of cutting. 4,653,362, 3-31-87, Cl. 83-16.000.

Gerber, Heinz J., to Gerber Scientific Inc. Knife blade and method for making same. 4,653,373, 3-31-87, Cl. 83-697.000.

Gerber, Heinz J.; and LeBlond, Claude, to Gerber Scientific, Inc. Notching tool with presser foot. 4,667,553, 5-26-87, Cl. 83-389.000.

Gerber, Heinz J., to Gerber Scientific Inc. Photoplotter using a light valve device and process for exposing graphics. 4,675,702, 6-23-87, Cl. 346-107.00R.

Gerber, Heinz J., to Gerber Scientific, Inc. Apparatus and method for supporting and working on sheet material. 4,685,363, 8-11-87, Cl. 83-22.000.

Gerber, Heinz J., to Gerber Scientific, Inc. Method for working on woven fabric wound on a supply roll. 4,700,598, 10-20-87, Cl. 83-14.000.

Gerber, James R. Leg rest for below knee amputee. 4,712,836, 12-15-87, Cl. 297-429.000.

Gerber, Jay D., to Norden Laboratories, Inc. *Moraxella bovis* protease vaccine. 4,675,176, 6-23-87, Cl. 424-88.000.

Gerber, Joel A.; and Sievers, Jerry A., to Minnesota Mining and Manufacturing Company. Slanted pole head for magnetic recording. 4,700,253, 10-13-87, Cl. 360-122.000.

Gerber, Manfred: *See—*

Gross, Heinz; Gerber, Manfred; Krebs, Rolf; and Retzlaff, Friedhelm, 4,656,332, Cl. 219-121.0LD.

Gerber, Pal: *See—*

Matyas, Bela; Gerber, Pal; Solymos, Andras; Kaszanitzky, Ferenc; Panto, Gyorgy; and Leffler, Janos, 4,649,031, Cl. 423-20.000.

Gerber, Pierre: *See—*

Winkelmann, Manfred; Muschner, Udo; and Gerber, Pierre, 4,709,905, Cl. 266-270.000.

Gerber Products Company: *See—*

Meeker, Paul K., 4,634,177, Cl. 297-250.000.

Osher, John D.; and Rattray, Thomas, 4,651,367, Cl. 5-99.00R.

Rattray, Thomas; and Osher, John D., 4,645,183, Cl. 256-25.000.

Rogers, William R.; and Liescheidt, Duane B., 4,644,730, Cl. 53-397.000.

Sergeant, Timothy L., 4,676,787, Cl. 604-384.000.

Swiatlowski, George J.; Trapp, Donald P.; Liescheidt, Duane B.; McDaniel, Arden G.; and Brandt, Maurice W., 4,673,078, Cl. 198-450.000.

Wise, Robert D.; and Justice, Steven W., 4,643,474, Cl. 254-250.000.

Wise, Robert D.; Quinlan, Robert L., Jr.; Lauro, Charles W.; and Bradd, Sidney H., Jr., 4,655,506, Cl. 297-467.000.

Gerber Scientific Inc.: *See—*

Gerber, Heinz J., 4,640,222, Cl. 118-697.000.

Gerber, Heinz J., 4,643,061, Cl. 83-174.100.

Gerber, Heinz J., 4,653,362, Cl. 83-16.000.

Gerber, Heinz J., 4,653,373, Cl. 83-697.000.

Gerber, Heinz J.; and LeBlond, Claude, 4,667,553, Cl. 83-389.00

Gerber, Heinz J., 4,675,702, Cl. 346-107.00R.

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Gerber Scientific Instrument Company, The: *See—*

Berdat, Henry F., 4,654,562, Cl. 315-200.00A.

Prichard, Robert J., 4,636,872, Cl. 358-296.000.

Rostkowski, Teresa; Zernik, Hava V.; Sarcia, Joseph; and Ging Richard L., 4,672,190, Cl. 250-202.000.

Gerber Scientific Products, Inc.: *See—*

Logan, David J.; Wood, Kenneth O.; Hernandez, William; and Edwards, Richard L., 4,711,035, Cl. 33-200.000.

Wood, Kenneth O., 4,708,901, Cl. 428-131.000.

Gerber, Siegfried, deceased: *See—*

Spruck, Bernd; and Gerber, Siegfried, deceased, 4,714,823, C 250-205.000.

Gerber, Terry L., to Ashley Worldwide, Inc. Convertible outerwear garment. 4,707,862, 11-24-87, Cl. 2-93.000.

Gerber, Urs; Gerber, Erich; Hofer, Peter; Fischer, Erwin; Lusuard Werther; Gysel, Walter; Baggi, Roland; Rogg, Eduard; and Gu Karl, to Georg Fischer Aktiengesellschaft. Armor and a method manufacturing it. 4,665,794, 5-19-87, Cl. 89-36.020.

Gerber, Walter, to Ferag AG. Method and apparatus for temporar storing printed products arriving in an imbricated formatio 4,637,198, 1-20-87, Cl. 53-430.000.

Gerber, Walter, to Ferag AG. Apparatus for storing printed produc arriving in an imbricated formation. 4,697,400, 10-6-87, C 53-118.000.

Gerber, Walter: *See—*

Thalmann, Alfred; Lehmann, Ernesto; Roth, Emil; and Gerbe Walter, 4,642,154, Cl. 156-272.200.

Gerberding, Karl: *See—*

Pohrt, Juergen; Matern, Ruediger; Jenne, Helmut; Gausepoh Hermann; and Gerberding, Karl, 4,647,621, Cl. 525-71.000.

Gerbert-Gaillard, Alain: *See—*

Nebon, Jean-Pierre; and Gerbert-Gaillard, Alain, 4,686,33 C 200-50.0AA.

Gerd Schulz Fahrzeug- und Container-Technik: *See—*

Schulz, Gerd, 4,690,232, Cl. 180-89.140.

Schulz, Gerd; and Hartleif, Hans-Peter, 4,697,967, Cl. 410-82.00

Gerdau, Alfred, to Rotorcomp Verdichter, GmbH. Separator for gase and liquids. 4,666,473, 5-19-87, Cl. 55-97.000.

Gerdau, Alfred, to Rotorcomp Verdichter GmbH. Degasifier for liquid separated from a gaseous fluid by a separator. 4,668,2 5-26-87, Cl. 55-191.000.

Gerdes, Gerald E., to WPM, Inc. Accessory faucet. 4,635,673, 1-13-8 Cl. 137-216.000.

Gerdes, Keith W.; Corts, Douglas E.; Jenkins, Thomas E.; Lesmeiste Stephen C.; and Welle, Louis A., Sr., to General Electric Compan Refrigerator and method of gasket assembly construction. 4,644,6 2-24-87, Cl. 49-478.000.

Gerdes, Richard C.; and Vokac, Peter R., to Third Domain, Inc. Circu and method for producing accurate dc restored video wavefor horizontal sync pulses, and vertical sync pulses. 4,680,633, 7-14-8 Cl. 358-171.000.

Gerdsen, Hans G.; and Jabbusch, Wolfgang, to Gerdsen, Hans Ger Foil arrangement for a planning craft. 4,665,853, 5-19-87, C 114-61.000.

Gerdsen, Hans Gerd: *See—*

Gerdsen, Hans G.; and Jabbusch, Wolfgang, 4,665,853, C 114-61.000.

Gerdt, David W.; and Gilligan, Lawrence H., to Sperry Corporatio Variable coupler fiberoptic sensor. 4,634,858, 1-6-87, Cl. 250-227.0

Gere, David S.: *See—*

Barkan, Philip; and Gere, David S., 4,645,888, Cl. 200-83.00W.

Geren, Keith L. M. Reusable lid for beverage cans. 4,703,873, 11-3-8 Cl. 222-192.000.

Gerety, Eugene P., to ITT Corporation. Apparatus for providing masterless collision detection. 4,638,311, 1-20-87, Cl. 340-825.060.

Gerety, Eugene P., to ITT Corporation. Apparatus for providing masterless collision detection. 4,644,348, 2-17-87, Cl. 340-825.060.

Gerety, Eugene P.: *See—*

Vij, Jitender K.; Yanosy, John A., Jr.; and Gerety, Eugene P 4,653,047, Cl. 370-58.000.

Gerety, Robert J.: *See—*

Seto, Belinda; and Gerety, Robert J., 4,673,634, Cl. 435-5.000.

Seto, Belinda P.; Coleman, William G., Jr.; and Gerety, Robert J. 4,707,439, Cl. 435-5.000.

Geretzki, Helmut, to Windmoller & Holscher. Inking system for multiple color printing by a single plate cylinder. 4,667,595, 5-26-87, C 101-207.000.

Gerfast, Sten R. Axial fan. 4,712,977, 12-15-87, Cl. 415-209.000.

Gergely, Gerhard; Gergely, Thomas; and Gergely, Irmgard. Effervescent composition and method of making same. 4,678,661, 7-7-87, C 424-44.000.

Gergely, Irmgard: *See—*

Gergely, Gerhard; Gergely, Thomas; and Gergely, Irmgard 4,678,661, Cl. 424-44.000.

Gergely, Stephen: *See—*

Braithwaite, Richard W.; Smith, Graham M.; Bellamy, Norman W.; and Gergely, Stephen, 4,665,995, Cl. 175-45.000.

Gergely, Thomas: *See—*

Gergely, Gerhard; Gergely, Thomas; and Gergely, Irmgard 4,678,661, Cl. 424-44.000.

Gerger, Scott A., and Kenyon, Dennis A., to Eastman Kodak Company. Electrographic process control. 4,693,593, 9-15-87, Cl. 355-14.0CH.

Gergin, Emile, to Geo International Corporation. Testing apparatus for plated through-holes on printed circuit boards, and probe therefor. 4,675,600, 6-23-87, Cl. 324-158.00P.

Gerhard Berger GmbH & Co. KG: *See—*

Richter, Ludwig; Siefert, Werner; and Kleis, Hans-Jorg, 4,658,194, Cl. 318-696.000.

Gerhard Collardin Gesellschaft mit beschraenkter Haftung: *See—*

Portz, Heinz; and Opitz, Reinhard, 4,707,193, Cl. 148-6.15Z.

Gerhard Collardin GmbH: *See—*

Portz, Heinz; and Ettingshausen, Othmar V., 4,680,064, Cl. 148-617.000.

Schellenberg, Lutz; Hamacher, Matthias; and Broadbent, Ronald, 4,636,264, Cl. 148-6.200.

Schellenberg, Lutz; Hamacher, Matthias; and Ahmed, Bashir M., 4,639,319, Cl. 210-651.000.

Gerhard, Gregory J., to International Biomedics, Inc. Article for preparing a chemical sensor for use. 4,689,308, 8-25-87, Cl. 436-18.000.

Gerhard, Helmut, to Westerwaelder Eisenwerk Gerhard GmbH. Device for locking a container. 4,682,923, 7-28-87, Cl. 410-90.000.

Gerhard, Tolasch, to Kolubus GmbH & Co. KG. Isolation method and apparatus for sterilizing chambers of filling machines. 4,707,334, 11-17-87, Cl. 422-28.000.

Gerhardinger, Dieter; Wegehaupt, Karl-Heinrich; and Pfeffer, Hans-Rudolf, to Wacker-Chemie GmbH. Anticorrosion coatings for porous concrete metal reinforcing structures. 4,649,066, 3-10-87, Cl. 427-387.000.

Gerhards, Hermann: *See—*

Geiger, Rolf; Gerhards, Hermann; and Kruse, Hansjorg, 4,696,913, Cl. 514-15.000.

Gerhards, Klaus: *See—*

Burkhardt, Klaus; Gerhards, Klaus; Greb, Manfred; Keuth, Rainer; and Lenk, Erich, 4,691,947, Cl. 28-255.000.

Gerhardt, Heinz A., to Northrop Corporation. Transverse thrust lift augmentation system. 4,648,571, 3-10-87, Cl. 244-207.000.

Gerhardt, Klaus: *See—*

Bottger, Friedrich; and Gerhardt, Klaus, 4,645,632, Cl. 264-120.000.

Bottger, Friedrich; and Gerhardt, Klaus, 4,647,417, Cl. 264-120.000.

Gerhardt, Robert F., to Ulano Corporation. Hardener composition. 4,655,841, 4-7-87, Cl. 106-287.230.

Gerhardt, Werner; Fischer, Herbert; Lehmann, Rudolf; Disch, Karlheinz; and Leinen, Hans T., to Henkel Kommanditgesellschaft auf Aktien. N-substituted diaminopropane/glutamic acid reaction products. 4,652,585, 3-24-87, Cl. 514-563.000.

Gerhardus, Rorije J.: *See—*

Bakker, Gijsbertus; and Gerhardus, Rorije J., 4,675,571, Cl. 313-461.000.

Gerhart, Fritz; and Mamont, Pierre, to Merrell Dow Pharmaceuticals Inc. Gem-dihalo-1,8-diamino-4-aza-octanes. 4,695,654, 9-22-87, Cl. 564-510.000.

Gerhartz, Seigmar: *See—*

Schippers, Heinz; Gerhartz, Seigmar; and Kalthoff, Rolf, 4,697,753, Cl. 242-18.100.

Gerhartz, Siegmar, to Barmag AG. Stepped precision winding process. 4,667,889, 5-26-87, Cl. 242-18.100.

Gerharz, Reinhold, to United States of America, Army. Process and apparatus for measuring optical density changes and transit times in transparent materials. 4,679,936, 7-14-87, Cl. 356-128.000.

erharz, Reinhold, to United States of America, Army. Omnidirectional electromagnetic lens. 4,682,179, 7-21-87, Cl. 343-755.000.

eri Engineering GmbH: *See—*

Wagner, Peter, 4,696,235, Cl. 104-124.000.

eria, Navin, to Warner-Lambert Company. Analgesic stick compositions. 4,702,916, 10-27-87, Cl. 424-400.000.

erich, Josef: *See—*

Schulze, Werner; and Gerich, Josef, 4,709,859, Cl. 239-525.000.

erin, Merlin: *See—*

Boichot-Castagne, Bernard, 4,675,598, Cl. 324-126.000.

Demeyer, Pierre, 4,682,264, Cl. 361-96.000.

Nebon, Jean-Pierre; and Gerbert-Gaillard, Alain, 4,686,334, Cl. 200-50.0AA.

Pin, Bernard; Delbosse, Andre ; and Dubreucq, Ivan, 4,714,976, Cl. 361-114.000.

Walter, Jean-Jacques; Petit, Daniel; Marzocca, Joseph; Amalric, Jean; and Bernard, Georges, 4,697,055, Cl. 200-148.00B.

rin, Umberto: *See—*

Meroni, Roberto; Lant, Danny; Lancerotto, Fabio; and Gerin, Umberto, 4,651,515, Cl. 57-261.000.

Meroni, Roberto; Lant, Danny; Lancerotto, Fabio; and Gerin, Umberto, 4,682,466, Cl. 57-274.000.

ringer, Arthur V.; Geringer, Richard G.; and Geringer, David A. ower actuated door locking and monitoring assembly. 4,634,155, -6-87, Cl. 292-144.000.

ringer, Arthur V.; Geringer, Richard G.; and Geringer, David A. oor closure assembly. 4,641,867, 2-10-87, Cl. 292-336.300.

inger, Bernhard; Linder, Ernst; Rembold, Helmut; and Ruoff, lanfred, to Robert Bosch GmbH. Valve control arrangement. 671,221, 6-9-87, Cl. 123-90.160.

inger, David A.: *See—*

Geringer, Arthur V.; Geringer, Richard G.; and Geringer, David A., 4,634,155, Cl. 292-144.000.

Geringer, Arthur V.; Geringer, Richard G.; and Geringer, David A., 4,641,867, Cl. 292-336.300.

Geringer, Miles S.; and Kaufman, Vernon R., to Tecumseh Products Company. Connecting rod design with voids. 4,691,590, 9-8-87, Cl. 74-579.00E.

Geringer, Miles S.: *See—*

Kaufman, Vernon R.; and Geringer, Miles S., 4,682,571, Cl. 123-73.00A.

Geringer, Richard G.: *See—*

Geringer, Arthur V.; Geringer, Richard G.; and Geringer, David A., 4,634,155, Cl. 292-144.000.

Geringer, Arthur V.; Geringer, Richard G.; and Geringer, David A., 4,641,867, Cl. 292-336.300.

Gerk, Wilfried; and Klee, Gerhard. Tool carriers and unbalance compensating means. 4,661,027, 4-28-87, Cl. 408-151.000.

Gerk, Wilfried: *See—*

Klee, Gerhard; Gerk, Wilfried; and Jeschke, Norbert, 4,697,484, Cl. 82-1.500.

Gerkema, Jan, to U.S. Philips Corporation. X-ray tube comprising anode disc rotatably supported by bearing having push-pull bearing on an axial face. 4,641,332, 2-3-87, Cl. 378-125.000.

Gerkema, Jan; Hagen, Johannes L. M.; and Rietdijk, Johan A., to U.S. Philips Corporation. X-ray tube comprising an anode disc rotatably journalled on a helical-groove bearing. 4,644,577, 2-17-87, Cl. 378-133.000.

Gerken, Donald L.: *See—*

Knoedler, Roy E.; Gerken, Donald L.; and Morton, Kenneth P., 4,662,683, Cl. 297-488.000.

Gerken, Heiner: *See—*

Kittel, Arthur; and Gerken, Heiner, 4,678,352, Cl. 400-175.000.

Gerken, Hero; and Gora, Heinz-Jurgen, to Eppendorf Geratebau Netheler & Hinz GmbH. Plastic reaction vessel. 4,713,219, 12-15-87, Cl. 422-102.000.

Gerken, Rudolf; Wiederhoft, Gerhard; Lailach, Gunter; Gutsche, Walter; and Muller, Wolfgang D., to Bayer Aktiengesellschaft. Process for the preparation of titanium dioxide. 4,663,131, 5-5-87, Cl. 423-82.000.

Gerken, Rudolf; Lailach, Gunter; Becher, Dieter; and Witt, Harro, to Bayer Aktiengesellschaft. Process for the production of dinitrotoluene. 4,663,490, 5-5-87, Cl. 568-934.000.

Gerken, Rudolf: *See—*

Lailach, Gunter; Gerken, Rudolf; and Schultz, Karl-Heinz, 4,670,235, Cl. 423-240.000.

Gerlach, Bernd: *See—*

Becker, Karlheinz; and Gerlach, Bernd, 4,666,164, Cl. 277-22.000.

Gerlach, Charles R.; and Heath, Rodney T. Liquid motor and pump with a stroke regulating gas motor. 4,659,344, 4-21-87, Cl. 55-29.000.

Gerlach, Charles R.: *See—*

Heath, Rodney T.; and Gerlach, Charles R., 4,715,808, Cl. 431-18.000.

Gerlach, Klaus; Kessler, Erich; and Henne, Werner. Hollow fiber membrane for plasma separation. 4,708,799, 11-24-87, Cl. 210-500.230.

Gerlach, Leroy E.: *See—*

Nubson, Richard C.; Howes, Ronald B., Jr.; Carney, Glenn R.; Gabel, Edward R.; Schmidt, Robert H.; Gerlach, Leroy E.; and Polad, Michael D., 4,688,785, Cl. 271-266.000.

Gerlach, Manfred, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Device for automatically tracking a moving object. 4,667,091, 5-19-87, Cl. 250-203.00R.

Gerlach, Paul; and Muller, Heinz E., to Filterwerk Mann & Hummel GmbH. Dirt accumulation indicator for air intake filters. 4,688,511, 8-25-87, Cl. 116-268.000.

Gerlach, Pierre: *See—*

Hoet, Roger; and Gerlach, Pierre, 4,639,633, Cl. 313-35.000.

Hoet, Roger; and Gerlach, Pierre, 4,644,217, Cl. 313-35.000.

Gerlach, Richard K., to Truvel Corporation. High resolution photographic film printer. 4,698,647, 10-6-87, Cl. 346-108.000.

Gerlach, Robert L.: *See—*

Welkie, David G.; and Gerlach, Robert L., 4,659,899, Cl. 219-121.0PN.

Gerlei nee Komaromy, Aniko : *See—*

Matolcsy, Gyorgy; Gimesi, Antal; Pelejtei nee Bauer, Krisztina; Sztatisz, Janisz; Tombor nee Szotyori, Agota; Cserhati, Tibor; Gerlei nee Komaromy, Aniko ; Kardos nee Nikoletti, Mariann; Dukai, Jozsef; Sebok, Dezso; Soptei, Csaba; Nagy, Lajos; and Belai, Ivan, 4,672,112, Cl. 536-46.000.

Gerling, John E. Variable Q microwave applicator and method. 4,689,459, 8-25-87, Cl. 219-10.55A.

Gerling, John E. Frequency stabilized microwave power system and method. 4,711,983, 12-8-87, Cl. 219-10.55A.

Gerling, John E.; and Ren, Ji T., to Jova Enterprises, Inc. Microwave oven and method with controlled heating profile. 4,714,811, 12-22-87, Cl. 219-10.55F.

Gerling, Paul, to Glyco-Metall-Werke Daelen & Loos GmbH. Hydrodynamic plain bearing. 4,636,095, 1-13-87, Cl. 384-117.000.

Gerloff, Klaus; Menell, Hans; Bark, Ludolf; Klopper, Friedrich; and de Vries, Gerhard, to Continental Gummi-Werke Aktiengesellschaft. Raisable extruder head for extruders. 4,666,392, 5-19-87, Cl. 425-190.000.

Gerloff, Klaus; Ehlert, Dieter; and von der Wall, Klaus, to Continental Gummi-Werke Aktiengesellschaft. Vehicle wheel with run-flat support. 4,694,873, 9-22-87, Cl. 152-380.000.

Gerlowski, Thomas J., to Westinghouse Electric Corp. Check valve test method using truncated accumulator blowdown. 4,694,693, 9-22-87, Cl. 73-168.000.

Germain, Jean-Luc; Janneteau, Eric; Loisy, Francois; and Honore, Joel, to Electricite de France (Service National). Detecting leaks in a heat exchanger in operation. 4,688,627, 8-25-87, Cl. 165-11.100.

Germau, Harold W.: *See—*

  Tonyes, Henry J.; Keehn, William T.; German, Harold W.; and Hill, Brian S., 4,713,250, Cl. 426-2.000.

German, Martin A.: *See—*

  Chase, Richard P.; Englander, Gary E.; German, Martin A.; and Volk, Joseph F., 4,709,514, Cl. 51-325.000.

German, Richard W. Pet operable annunciator. 4,686,504, 8-11-87, Cl. 340-328.000.

Germanaud, Laurent: *See—*

  Brunel, Sylvain; Germanaud, Laurent; Le Perchec, Pierre; and Sillion, Bernard, 4,704,229, Cl. 252-352.000.

Germann, Albrecht J., to De La Rue Giori S.A. Multicolor rotary printing machine. 4,633,777, 1-6-87, Cl. 101-177.000.

Germann, Albrecht J., to De la Rue Giori S.A. Rotary multicolor printing machine for simultaneous recto-verso printing. 4,697,515, 10-6-87, Cl. 101-179.000.

Germer, John H., to General Electric Company. Radiant vessel auxiliary cooling system. 4,678,626, 7-7-87, Cl. 376-298.000.

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  Hellkamp, Leo A., 4,656,961, Cl. 114-230.000.

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  Boecker, Juegen; Gersbach, Klaus; and Bethmann, Karl 4,677,915, Cl. 102-517.000.

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  Maxner, Uwe; and Milferstaedt, Dieter, 4,641,002, Cl. 200-268.000.
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  Ebeling, Wolfgang; and Kolditz, Helmut, 4,705,120, Cl. 175-99.000.
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Geysen, Hendrik, to Commonwealth Serum Laboratories Commission. Antigenically active amino acid sequences. 4,708,871, 11-24-87, Cl. 424-88.000.

Gezari, Daniel Y.: *See—*

Boyd, Robert L.; Krukowski, Richard; and Gezari, Daniel Y., 4,691,694, Cl. 128-25.00R.

Geze GmbH: *See—*

Feucht, Fritz; Mettenleiter, Karl; and Storandt, Ralf, 4,653,229, Cl. 49-367.000.

Fritsche, Karl; and Vahs, Wilhelm, 4,686,739, Cl. 16-79.000.

Maier, Helmut; Storandt, Ralf; Guenther, Heinz, deceased; Guenther, Renate, legal representative; and Guenther, Sabine, legal representative, 4,640,051, Cl. 49-348.000.

Mettenleiter, Karl; Storandt, Ralf; and Scheck, Georg, 4,663,800, Cl. 16-51.000.

Scheck, Georg; Bogner Martin; Schmidt, Manfred; and Kowatsch, Ulrich, 4,639,010, Cl. 280-615.000.

Storandt, Ralf; and Storz-Irion, Regina, 4,663,887, Cl. 49-369.000.

GfE Gesellschaft fur Elektrometallurgie mbH: *See—*

Fichte, Rudolf; Retelsdorf, Hans-Joachim; and Kunert, Peter K., 4,643,874, Cl. 420-417.000.

Hahn, Reinhard; Hess, Hans; and Sattelberger, Siegfried, 4,645,651, Cl. 423-62.000.

Hahn, Reinhard; Hess, Hans; and Sattelberger, Siegfried, 4,662,936, Cl. 75-10.540.

Hahn, Reinhard; and Andorfer, Hermann, 4,684,506, Cl. 420-552.000.

Gfeller AG: *See—*

Marquis, Tierry, 4,634,815, Cl. 367-68.400.

GfK Gesellschaft fur Kohleverflussigung mbH: *See—*

Wurfel, Helmut, 4,689,139, Cl. 208-415.000.

GFM Gesellschaft fur Fertigungstechnik und Maschinenbau Gesellschaft m.b.H.: *See—*

Blaimschein, Gottfried, 4,681,491, Cl. 409-200.000.

Gg. Noell GmbH: *See—*

Krieger, Friedrich; and Weis, Otto, 4,666,050, Cl. 212-211.000.

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Fricker, Wolfgang; and Klikos, Zdenek, 4,649,835, Cl. 110-336.000.

Ghaderi, Sahba; and Littlejohn, Duane P., to Nicolet Instrument Corporation. Mass spectrometer. 4,668,864, 5-26-87, Cl. 250-291.000.

Ghahramani, Massoud: *See—*

Ritter, Christoph; Ghahramani, Massoud; and Marsoner, Hermann, 4,670,127, Cl. 204-418.000.

Ghaly, Azmy W. Clamping device. 4,685,710, 8-11-87, Cl. 292-67.000.

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Ghaly, Maurice S. Eye shield. 4,649,908, 3-17-87, Cl. 128-132.00R.

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Carlson, Ronald E.; Ely, Stephen R.; Feinstein, Allen I.; and Gh nayem, Ibrahim, 4,677,240, Cl. 585-488.000.

Gharachorloo, Nader, to Cornell Research Foundation, Inc. Pipeline buffered real-time color graphics display system. 4,658,24 4-14-87, Cl. 340-747.000.

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Moore, John S.; and Ghassemi, Farhad, 4,687,057, Cl. 166-252.0

Powers, Maston L.; Dodson, Christopher J.; Moore, John S.; a Ghassemi, Farhad, 4,641,709, Cl. 166-252.000.

Ghassemzadeh, M. Reza: *See—*

Priem, Richard J.; Ghassemzadeh, M. Reza; and Griffiths, Jam C., 4,685,510, Cl. 165-62.000.

Ghate, Madhav R.; and Yang, Ralph T., to United States of Ameri Energy. Method and apparatus for the selective separation of gaseo coal gasification products by pressure swing adsorption. 4,696,68 9-29-87, Cl. 55-25.000.

Ghavamikia, Hamid, to General Motors Corporation. Method of pr ducing glass fiber mat reinforced plastic panels without the fib readout defect. 4,664,862, 5-12-87, Cl. 264-257.000.

Ghazey, John M., to Dubner Computer Systems, Inc. Encoded vid television graphics system. 4,707,731, 11-17-87, Cl. 358-22.000.

Ghebre-Sellassie, Isaac: *See—*

Chow, Li Hang; Fawzi, Mahdi B.; and Ghebre-Sellassie, Isa 4,687,776, Cl. 514-312.000.

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Kronstadt, Eric P.; Gheewala, Tushar R.; and Gandhi, Sharad 4,691,277, Cl. 364-200.000.

Gherardi, Gian L., to Sasib S.p.A. Turn around device for filter cig rette. 4,664,249, 5-12-87, Cl. 198-410.000.

Gherardi, Gian L., to Sasib S.p.A. Device for dividing a continu web of wrapping material into successive single sections. 4,699,0 10-13-87, Cl. 83-348.000.

Gherardi, Paola: *See—*

Matijevic, Egon; and Gherardi, Paola, 4,675,251, Cl. 428-404.0

Gherdovich, Giancarlo: *See—*

Bolognesi, Antonio; Selleri, Narciso; and Gherdovich, Giancar 4,703,587, Cl. 51-165.00R.

Ghezzi, Franco: *See—*

Flutti, Fulvio; and Ghezzi, Franco, 4,708,907, Cl. 428-352.000.

Ghezzo, Mario: *See—*

Tsang, Joseph C.; Ghezzo, Mario; and Fuller, Robert T., 4,707,4 Cl. 437-57.000.

Ghiardo, Fiorenzo; and Maina, Bruno, to ROJ Electrotex S.p.A. W feeder for weaving looms. 4,638,840, 1-27-87, Cl. 139-452.000.

Ghibely, Bruno, to Demba Metallwarenfabrik GmbH. Drive-in appa tus for several drive-in blows. 4,676,423, 6-30-87, Cl. 227-121.000.

Ghibu, Michael; Hartel, Volker; Heynemann, Carl; and Rauba Manfred, to Metzeler Kautschuk GmbH. Co-oscillating, volu changing resonator in the form of a silencer. 4,683,979, 8-4-87, 181-286.000.

Ghilardi, Giuliano, to Pirelli Coordinamento Pneumatici S.p.A. T having a low absorption of rolling resistance for vehicle whe 4,703,787, 11-3-87, Cl. 152-209.00R.

Ghilardi, Giuliano, to Pirelli Coordinamento Pneumatici S.p.A. Tre patterns of motor-vehicle tires. 4,705,088, 11-10-87, Cl. 152-209.0

Ghinea, Aurelian: *See—*

Axinti, Gavril; Arama, Stefanica; Draghici, Ionel; Bratu, Poli Stanciu, Corneliu; Ghinea, Aurelian; Badulescu, Florin; Diaconu, Cristian, 4,688,468, Cl. 91-317.000.

Ghini, Mario, to IN.GR.ED. Industrie Grafiche Editoriali S.p.A. Bl for parallelepiped dispensing carton. 4,690,282, 9-1-87, 206-626.000.

Ghioni, Giorgio: *See—*

Grigoli, Aldo; and Ghioni, Giorgio, 4,699,583, Cl. 425-261.000

Ghiringhelli, Giulio: *See—*

Denis, Rene; Ghiringhelli, Giulio; and Schaal, Alfred, 4,673, Cl. 340-572.000.

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Delle Piane, Alberto; Sartorio, Franco; Cantello, Maichi Ghiringhello, Guglielmo, 4,682,002, Cl. 219-121.0LD.

Ghislain, Raymond L.: *See—*

Liu, Ming; Bowbin, John F.; Ghislain, Raymond L.; and McDa Stephen K., 4,635,536, Cl. 92-24.000.

Ghisoni, Emilio. Revolver with reduced backlash moment. 4,651, 3-24-87, Cl. 42-62.000.

Ghisoni, Emilio. Semiautomatic operation revolving cylinder p 4,712,466, 12-15-87, Cl. 89-157.000.

Ghisu, Giuseppe: *See—*

Nistri, Ugo; Baroffio, Romano; Ghisu, Giuseppe; Chiellini, Padula, Giorgio; and Fonzi, Giorgio, 4,650,409, Cl. 425-82

Ghodsian, Kamran. Sterile adhesive sheet. 4,650,705, 3-17-87, 428-40.000.

Ghodsian, Kamran. Dilator for cervical canal. 4,664,114, 5-12-8 128-344.000.

Ghommidh, Charles; Navarro, Jean-Marie; Girardon, Philippe; Amen, Jean, to L'Air Liquide, Societe Anonyme pour l'Etu l'Exploitation des Procedes Georges Claude. Continuous micr logical production of acetic acid and vinegar. 4,687,668, 8-18-8 426-17.000.

Ghorbani, Ali; and Walker, Gary M., to Rockwell International C ration. Keyed insulator apparatus. 4,702,712, 10-27-87, 439-596.000.

Ghose, Rabindra N. Separation of specific biological cells by chemical filter. 4,692,411, 9-8-87, Cl. 435-243.000.

Ghose, Sanjoy, to Memorex Corporation. Self loading slider for magnetic recording heads. 4,670,806, 6-2-87, Cl. 360-103.000.

Ghosh, Sambhunath; Chynoweth, David P.; and Tarman, Paul B., to Institute of Gas Technology. Two phase anaerobic digestion. 4,696,746, 9-29-87, Cl. 210-603.000.

Ghosh, Shyamal-Krishna; and Sturm, Emil, to Siemens Aktiengesellschaft. Circuit configuration incorporating an A.C.-fed load connected in series with a capacitor unit. 4,672,289, 6-9-87, Cl. 318-817.000.

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Ghosh, Subir, and Junior, Aluizio P., to Telecomunicacoes Brasileiras S/A - Telebras. Corrugated transition device for use between a continuous and a corrugated circular waveguide with signal in two different frequency bands. 4,680,558, 7-14-87, Cl. 333-21.00R.

Ghoshal, Uttam S., to Microelectronics and Computer Technology Corporation. High speed bootstrapped CMOS driver. 4,689,505, 8-25-87, Cl. 307-482.000.

Ghrist, William D., III: *See*—
  Crew, Albert W.; Ghrist, William D., III; and Remley, Gilbert W., 4,692,299, Cl. 376-216.000.
  Sutherland, James F., and Ghrist, William D., III, 4,652,417, Cl. 376-215.000.

Ghusn, Abdallah E. Vehicle access control system. 4,711,608, 12-8-87, Cl. 404-6.000.

Ghyczy, Miklos; Imberge, Paul-Robert; and Wendel, Armin, to A. Nattermann & Cie, GmbH. Phospholipid compositions and their use in plant protection spray mixtures. 4,681,617, 7-21-87, Cl. 71-86.000.

Ghyczy, Miklos: *See*—
  Schulz, Volker; Leyck, Sigurd; Durr, Manfred; Ghyczy, Miklos; Wendel, Armin; and Hager, Jorg, 4,684,632, Cl. 514-78.000.
  Wendel, Armin; Leyck, Sigurd; Wetzig, Helmut; Hager, Jorg; Durr, Manfred; and Ghyczy, Miklos, 4,687,766, Cl. 514-78.000.

Ghys, Theofiel H.: *See*—
  Vermeulen, Leon L.; Ghys, Theofiel H.; De Smedt, Willy P.; Vervloet, Ludovicus H.; and Callant, Paul R., 4,686,170, Cl. 430-244.000.

Giaccari, Ennio: *See*—
  D'Addio, Egidio; Galati, Gaspare; and Giaccari, Ennio, 4,636,793, Cl. 342-162.000.

Giachetti, Antonio: *See*—
  Bietti, Giuseppe; Cereda, Enzo; Donetti, Arturo; del Soldato, Piero; Giachetti, Antonio; and Micheletti, Rosamaria, 4,645,841, Cl. 548-128.000.
  Bietti, Giuseppe; Cereda, Enzo; Donetti, Arturo; Giachetti, Antonio; and Pagani, Ferdinando, 4,649,150, Cl. 514-392.000.
  Cereda, Enzo; Donetti, Arturo; Giachetti, Antonio; and del Soldato, Piero, 4,643,993, Cl. 514-93.000.
  Cereda, Enzo; Bietti, Giuseppe; Donetti, Arturo; del Soldato, Piero; Giachetti, Antonio; and Pagani, Ferdinando, 4,666,932, Cl. 514-400.000.
  Cereda, Enzo; Bietti, Giuseppe; Donetti, Arturo; del Soldato, Piero; Giachetti, Antonio; and Pagani, Ferdinando, 4,699,915, Cl. 514-357.000.
  Trummlitz, Gunter; Engel, Wolfhard; Eberlein, Wolfgang; Mihm, Gerhard; and Giachetti, Antonio, 4,668,674, Cl. 514-220.000.

Giachetti, Ettore: *See*—
  Mayr, Adolfo; Susa, Ermanno; Leccese, Antonio; Davoli, Velmore; and Giachetti, Ettore, 4,636,486, Cl. 502-121.000.

Giachino, Joseph M.; and Kress, James W., to Ford Motor Company. Silicon valve. 4,647,013, 3-3-87, Cl. 251-331.000.

Giacobbe, Thomas J.: *See*—
  Cook, John E.; Giacobbe, Thomas J.; and Hagerty, Robert O., 4,675,369, Cl. 526-129.000.

Giacobbi, Peter D., to Johnston Pump/General Valve, Inc. Valve operator for a plug-type valve. 4,666,124, 5-19-87, Cl. 251-56.000.

Giacomazzi, Roy A.; and Rich, Gregory E., to General Motors Corporation. Fuel tank venting. 4,673,009, 6-16-87, Cl. 141-198.000.

Giacomel, Jeffrey A., to LTV Aerospace and Defense Company. Power translation device. 4,655,679, 4-7-87, Cl. 415-90.000.

Giacomini, William P.: *See*—
  Piorkowski, Gary J.; and Giacomini, William P., 4,676,236, Cl. 128-201.230.

Giaever, Ivar; and Keese, Charles R., to General Electric Company. Diagnostic method of determining the presence or absence of select proteins in a liquid sample. 4,634,681, 1-6-87, Cl. 436-518.000.

Giaever, Ivar; and Harrigan, Dale, to General Electric Company. Immunological detection device and method for its preparation. 4,672,024, 6-9-87, Cl. 430-396.000.

Giakoumis, Alex, to U.S. Philips Corporation. Variable-bias circuit with HF transmission path. 4,639,617, 1-27-87, Cl. 307-296.00R.

Giallorenzi, Thomas G., to United States of America, Navy. All-optical towed and conformal arrays. 4,648,083, 3-3-87, Cl. 367-149.000.

Giallorenzi, Thomas G.: *See*—
  Petuchowski, Samuel J.; and Giallorenzi, Thomas G., 4,644,556, Cl. 372-97.000.

Giallourakis, Michael A., to Sponge Fishing Co., Inc. Polishing pad. 4,670,962, 6-9-87, Cl. 29-450.000.

Giambalvo, Frank. Controlled infusion containers and method of manufacture. 4,651,870, 3-24-87, Cl. 206-0.500.

Giammara, Beverly L.; and Hanker, Jacob S., to University of North Carolina at Chapel Hill, The; and Microelectronics Center of North Carolina. Silver methenamine staining method. 4,690,901, 9-1-87, Cl. 436-86.000.

Giammarco, Nicholas J.; Gimpelson, Alexander; Kaplita, George A.; Lopata, Alexander D.; Scaduto, Anthony F.; and Shepard, Joseph F., to International Business Machines Corporation. Lithographic image size reduction. 4,707,218, 11-17-87, Cl. 156-643.000.

Giammarese, Victor, to Gerstein, Milton S.; and Benn, Marvin. Remote meter-reader device for gas meters, and the like. 4,688,038, 8-18-87, Cl. 340-870.020.

Giancarlo, Mondini: *See*—
  Bachinger, Peter; and Giancarlo, Mondini, 4,673,137, Cl. 242-55.100.

Giancola, Vincent; and Borseth, Edward M., to General Dynamics, Pomona Division. Space-referenced, rate-stabilized multiple-gimbal-platform system. 4,645,994, 2-24-87, Cl. 318-649.000.

Gianese, Goffredo, to Sasib S.p.A. Device for feeding cigarettes or the like rod-like articles. 4,691,848, 9-8-87, Cl. 222-269.000.

Gianesello, Valter: *See*—
  Gazzaniga, Annibale; Gianesello, Valter; Stroppolo, Federico; and Vigano', Luigi, 4,689,218, Cl. 424-43.000.

Gianfilippo, Aleandro Di, to Baxter Travenol Laboratories, Inc. Electrical connection means for multiple bulk compounding systems. 4,712,590, 12-15-87, Cl. 141-83.000.

Giannantonio, Guiseppe: *See*—
  De Paolis, Cesare; Giannantonio, Guiseppe; and Pons, Claude, 4,636,694, Cl. 315-368.000.

Giannetti, Anna; Massa, Sergio; and Re, Cesare, to S.r.l. LO.GI.CAM - Lombarda General Engeenering Costruzioni Automatiche. Publicity board with rotating prismatic members. 4,638,580, 1-27-87, Cl. 40-503.000.

Gianni, Thomas R.: *See*—
  Giguere, Irving J.; and Gianni, Thomas R., 4,647,829, Cl. 318-696.000.

Giannini, Gabriel. Magnetic valve actuator. 4,671,486, 6-9-87, Cl. 251-65.000.

Giannini, Gabriel M. Optical fiber magnetic connector. 4,690,495, 9-1-87, Cl. 350-96.210.

Giannini, Giancarlo. Tone generating glove and associated switches. 4,635,516, 1-13-87, Cl. 84-1.010.

Giannini, Mario: *See*—
  Bonacchi, Graziano; Fedi, Mauro; and Giannini, Mario, 4,692,525, Cl. 544-360.000.

Giannini, Peter T.: *See*—
  Woods, Andy; and Giannini, Peter T., 4,657,160, Cl. 222-94.000.

Giannini, Umberto: *See*—
  Del Giudice, Luciano; Nocci, Roberto; Giannini, Umberto; and Gianotti, Giuseppe, 4,713,416, Cl. 525-68.000.

Giannitrapani, Francesco P. Four pronged carving-fork having two pairs of spaced parallel prongs. 4,656,740, 4-14-87, Cl. 30-322.000.

Giannotti, Hugo V. Vortex particle separator. 4,643,158, 2-17-87, Cl. 123-591.000.

Giannotti, Hugo V. Ballistic particle separator. 4,699,114, 10-13-87, Cl. 123-591.000.

Giannuzzi, Louis N. Non-rotating toggle bolt assembly. 4,668,144, 5-26-87, Cl. 411-342.000.

Giano, Roberto; Parini, Ettore; Malandrino, Salvatore; and Tonon, Giancarlo, to Dompe' Farmaceutici S.p.A. Aminoacyl derivatives of 4,9-dihydro-10H-pyrido[3,2-b]thieno[3,2-e][1,4]diazepinone and of 4,9-dihydro-10H-pyrido[3,2-b]thieno[3,4-e][1,4]diazepinone, their preparation and pharmaceutical compositions containing them. 4,659,707, 4-21-87, Cl. 514-215.000.

Gianolini, Giovanni: *See*—
  Knirsch, Franco; and Gianolini, Giovanni, 4,687,701, Cl. 428-216.000.

Gianopoulos, Thomas J.; and Becklin, Wallace W. Hemorrhoid retainers. 4,702,237, 10-27-87, Cl. 128-98.100.

Gianotti, Giuseppe: *See*—
  Del Giudice, Luciano; Nocci, Roberto; Giannini, Umberto; and Gianotti, Giuseppe, 4,713,416, Cl. 525-68.000.

Gianturco, Cesare, to Cook, Incorporated. Implantable insulin administration device. 4,687,468, 8-18-87, Cl. 604-153.000.

Giardina, Joseph J. Electronic potentiometer. 4,715,051, 12-22-87, Cl. 377-45.000.

Giardina, Nicholas: *See*—
  Bryan, Horace; and Giardina, Nicholas, 4,679,037, Cl. 340-693.000.

Giardini, Arnaldo. Concrete retaining wall block. 4,671,706, 6-9-87, Cl. 405-286.000.

Giardini, Dante S., to Ford Motor Company. Dual drum brake assembly. 4,646,885, 3-3-87, Cl. 188-325.000.

Giardini, Dante S., to Ford Motor Company. Dual drum brake assembly with cooling means. 4,650,041, 3-17-87, Cl. 188-264.00F.

Giardino, Pietro: *See*—
  Cambiaghi, Stefano; Dallatomasina, Franco; Giardino, Pietro; Murador, Enzo; and Spreafico, Gaspare, 4,668,625, Cl. 435-70.000.
  Oppici, Ernesto; Dallatomasina, Franco; and Giardino, Pietro, 4,656,304, Cl. 560-41.000.

Giarrizzo, John E.: *See*—
  Weinerman, Lee S.; Rachocki, Michael J.; and Giarrizzo, John E., 4,683,736, Cl. 70-208.000.

Giatras, James L.; Mang, Warren G.; Marino, Charles P.; Needling, Michael C.; and Pezdirtz, George F., to Markel Corporation. Process for applying polymeric coatings, and resulting coated articles. 4,701,345, 10-20-87, Cl. 427-45.100.

Giavarini, Andrea, to GTE Telecommunicazioni, S.p.A. Microwave metallic cavity. 4,706,053, 11-10-87, Cl. 333-229.000.

Gibas, Christoph, to bso Steuerungstechnik GmbH. Armature bearing ring for an electromagnet. 4,677,410, 6-30-87, Cl. 335-262.000.

Gibb, James L.; Laird, James A.; Lee, George W.; and Whitcomb, William C., to Minnesota Mining and Manufacturing Company.

Particulate ceramic useful as a proppant. 4,680,230, 7-14-87, Cl. 428-403.000.

Gibb, Peter R.; and Balik, Karel, to Novacorp International Consulting Ltd. Apparatus and method for connecting subsea production equipment to a floating facility. 4,662,785, 5-5-87, Cl. 405-195.000.

Gibbemeyer, Joseph F., to Cincinnati Milacron Inc. Resilient skirted spindle nose and pallet with reciprocatable spindle combined therewith. 4,678,425, 7-7-87, Cl. 425-522.000.

Gibbemeyer, Joseph F., to Cincinnati Milacron Inc. Bottom loader for a conveyor means. 4,694,951, 9-22-87, Cl. 198-468.300.

Gibbon, John D.; and Adkins, Virgil J., Jr., to Celanese Corporation. Process control system. 4,675,378, 6-23-87, Cl. 528-272.000.

Gibbon, Linda M.; and Gibbon, Randolph H. Collector's auction game. 4,637,614, 1-20-87, Cl. 273-271.000.

Gibbon, Randolph H.: *See—*

Gibbon, Linda M.; and Gibbon, Randolph H., 4,637,614, Cl. 273-271.000.

Gibbon, Robert M.; and Houtz, J. William, to JMK International, Inc. Expansion joint. 4,699,540, 10-13-87, Cl. 404-49.000.

Gibbons, Carl B. Insulated flexible bladder solar collector. 4,690,128, 9-1-87, Cl. 126-450.000.

Gibbons, Charles E.; Whillock, Allan A.; Lanham, Robert L.; and Kinsey, Joe L., Jr., to International Paper Company. Novel laminates for paperboard cartons and a process of forming said laminates. 4,698,246, 10-6-87, Cl. 428-35.000.

Gibbons, Charles E.; and Whillock, Allan A., to International Paper Company. Heat sealable barrier material for improved juice packaging (EVOH). 4,701,360, 10-20-87, Cl. 428-35.000.

Gibbons, David L., to Marathon Oil Company. Oil recovery process using a viscosity adjusted gelation system. 4,679,625, 7-14-87, Cl. 166-270.000.

Gibbons, David L., to Marathon Oil Company. Conformance correction to improve hydrocarbon recovery from a subterranean formation. 4,693,310, 9-15-87, Cl. 166-270.000.

Gibbons, Dennis R.: *See—*

Kulesza, Ralph J.; Disko, Harry; and Gibbons, Dennis R., 4,669,997, Cl. 446-183.000.

Gibbons, Frank B., to Gibbons, Maxine S. Sheet pile supported driver. 4,709,764, 12-1-87, Cl. 173-45.000.

Gibbons, Ian: *See—*

Armenta, Richard; Gibbons, Ian; and Olson, John, 4,66[illegible],620, Cl. 435-7.000.

DiNello, Robert K.; Gibbons, Ian; and Ullman, Edwin F., 4,687,735, Cl. 435-7.000.

Gibbons, Mark A.: *See—*

Blumenkranz, Robert M.; and Gibbons, Mark A., 4,694,258, Cl. 330-2.000.

Gibbons, Martin D.: *See—*

Wang, Samuel C.; Swab, John M.; Winn, Michael L.; and Gibbons, Martin D., 4,682,236, Cl. 358-213.260.

Gibbons, Maxine S.: *See—*

Gibbons, Frank B., 4,709,764, Cl. 173-45.000.

Gibbons, Patrice H.: *See—*

MacNeil, Tanya; and Gibbons, Patrice H., 4,703,009, Cl. 435-172.300.

Gibbs, Andrew R.: *See—*

Isherwood, Jonathan M.; and Gibbs, Andrew R., 4,701,747, Cl. 340-365.00P.

Gibbs, David L., to Pfizer Inc. Tioconazole and related compounds for control of Herpes simplex virus. 4,661,493, 4-28-87, Cl. 514-252.000.

Gibbs, David L. Method and apparatus utilizing agar diffusion technique for determining quantitative drug concentration parameter. 4,701,850, 10-20-87, Cl. 364-415.000.

Gibbs, Dudley F.; Greenhalgh, Marilyn E.; Watson, James H. P.; Yeo, Richard G.; and Ellwood, Derek C., to Bio Separation Limited. Process for the separation of metals from aqueous media. 4,701,261, 10-20-87, Cl. 210-606.000.

Gibbs, George R.: *See—*

Lapatovich, Walter P.; and Gibbs, George R., 4,636,692, Cl. 315-248.000.

Lapatovich, Walter P.; Gibbs, George R.; and Proud, Joseph M., 4,647,821, Cl. 315-248.000.

Gibbs, Irwin S.; and Kotwal, Pramod M., to McNeilab, Inc. Pharmaceutical composition of N-(4-hydroxyphenyl) retinamide having increased bioavailability. 4,665,098, 5-12-87, Cl. 514-613.000.

Gibbs, Robert L. Cartridge-launched, disk-deployed chaff. 4,653,403, 3-31-87, Cl. 102-436.000.

Gibbs, Robert L. Cartridge launched - disk deployed chaff. 4,683,824, 8-4-87, Cl. 102-436.000.

Gibbs, Ronald E.: *See—*

Breckenfeld, Paul W.; Broughton, George L.; Gibbs, Ronald E.; Macier, James E.; and Petersen, H. Norman, 4,669,988, Cl. 440-88.000.

Gibbs, Ronald T.: *See—*

Smith, Grant M.; Romania, Samuel R.; and Gibbs, Ronald T., 4,674,004, Cl. 361-384.000.

Gibbs, Terry L., to Motorola, Inc. High-ratio, isolated microwave branch coupler with power divider, phase shifters, and quadrature hybrid. 4,636,755, 1-13-87, Cl. 333-116.000.

Gibbs, William L. Multi-subscriber warning system. 4,651,339, 3-17-87, Cl. 379-42.000.

Gibco Division, The Mogul Corporation: *See—*

Davis, Sherman G., 4,640,895, Cl. 435-296.000.

Gibergues, Oliver: *See—*

Cour, Jean-Michel; and Gibergues, Oliver, 4,670,873, Cl. 370-86.000.

Giberson, Wayne F.; Estep, Glenn T.; and Kramer, Daniel E., Kramer Trenton Co., by said Giberson and Estep. Refrigerator evaporators with pitched top panel. 4,658,602, 4-21-87, C 62-515.000.

Gibert, Francois: *See—*

Deux, Alain; Merant, Jean-Camille; Gibert, Francois; and Berger Antoine, 4,707,973, Cl. 56-328.00R.

Giberti-Fornaciari, Serse, to Vidriera Monterrey, S.A. Take-out tong head assembly. 4,710,218, 12-1-87, Cl. 65-260.000.

Gibes, Terrence R. Portable radiation contamination detector 4,695,728, 9-22-87, Cl. 250-336.100.

Gibilini, Daniel; and Galves, Jean Pierre, to Thomson-CSF. Luminescent screen and a method of fabrication of said screen. 4,661,74 4-28-87, Cl. 313-474.000.

Gibilini, Daniel: *See—*

Galves, Jean-Pierre; Gibilini, Daniel; and Rougeot, Her 4,647,811, Cl. 313-372.000.

Gibilisco, Kenneth J.; Degnen, Stephen; and Borders, Richard, Merck & Co., Inc. Medicament dispensing container. 4,653,66 3-31-87, Cl. 221-298.000.

Gibod, Yves B.: *See—*

Val, Christian; Pinel, Joseph; and Gibod, Yves B., 4,639,826, C 361-272.000.

Gibot, Claude, to L'Air Liquide, Societe Anonyme pour l'Etude l'Exploitation des Procedes Georges Claude. Process and installation for cooling a viscous and in particular food product. 4,640,099, 2-3- Cl. 62-62.000.

Gibot, Claude, to Carboxyque Francaise. Process and apparatus cooling a charge of products. 4,644,754, 2-24-87, Cl. 62-62.000.

Gibot, Claude; and Charles, Jean-Michel, to Carboxyque Francaise Installation for the projection of particles of dry ice. 4,707,95 11-24-87, Cl. 51-410.000.

Gibs, Gabriel J., to Lonza Inc. Preparation of maltose and malti syrups. 4,675,293, 6-23-87, Cl. 435-95.000.

Gibson, Alan F.: *See—*

Kilbane, Farrell M.; Coleman, Richard A.; Dunbar, Frank C., and Gibson, Alan F., 4,675,214, Cl. 427-320.000.

Gibson, Brian C.; and Spark, George J., to IVL Technologies Ltd Pitch detection apparatus. 4,688,464, 8-25-87, Cl. 84-454.000.

Gibson, Charles A., to Union Carbide Corporation. Processes producing diethylenetriamine from monoethanolamine. 4,647,70 3-3-87, Cl. 564-479.000.

Gibson, Christopher S. Portable exercise machine. 4,709,923, 12-1- Cl. 272-134.000.

Gibson, Clayton H.; and Young, David A., to United States of America Agriculture. Retrofit device for alfalfa valves. 4,699,354, 10-13-87, C 251-61.500.

Gibson, Dale E., to Leupold & Stevens. Telescopic sight with erector lens focus adjustment. 4,643,542, 2-17-87, Cl. 350-562.000.

Gibson, Gary: *See—*

Thomas, Larry D.; Waltke, David L.; and Gibson, Gary, 4,648,52 Cl. 220-1.500.

Gibson, Gary S. Motorcycle chain drive. 4,705,494, 11-10-87, C 474-109.000.

Gibson Guitar Corp.: *See—*

Shaw, Timothy P., 4,657,114, Cl. 84-1.160.

Gibson, Harry T. Pyrolytic decomposition apparatus. 4,686,00 8-11-87, Cl. 202-118.000.

Gibson, James B.: *See—*

Reed, Marion G.; and Gibson, James B., 4,659,259, Cl. 405-263.000

Gibson, James D. M., to Wool Development International Ltd. Fluid dispensing process. 4,695,485, 9-22-87, Cl. 427-256.000.

Gibson, John A. Touch control adaptor. 4,701,676, 10-20-87, Cl 315-362.000.

Gibson, John J., to RCA Corporation. Filter arrangement for an audio companding system. 4,704,726, 11-3-87, Cl. 381-13.000.

Gibson, John W.: *See—*

Davis, Robert C.; Gibson, John W.; Skinner, Daniel S., Jr.; Dearth Timothy E.; and Harris, Dale C., 4,649,042, Cl. 424-438.000

Gibson, Kristie C.: *See—*

Gray, Michael L.; and Gibson, Kristie C., 4,698,080, Cl. 62-21.000

Gibson, Larry A.: *See—*

Sasnett, Michael W.; Rorden, Robert J.; and Gibson, Larry A. 4,648,093, Cl. 372-38.000.

Gibson Machine Company: *See—*

Smith, Ashley P., 4,646,546, Cl. 68-212.000.

Gibson, Michael A.: *See—*

Stahl, Charles R.; Gibson, Michael A.; and Knudsen, Christian W. 4,694,907, Cl. 166-303.000.

Gibson, Peter J.: *See—*

Chua, Lye-Whatt; and Gibson, Peter J., 4,673,897, Cl. 333-26.000

Gibson, Phillip R.; and Richardson, Dean L. Trotline reel. 4,704,817, 11-10-87, Cl. 43-57.300.

Gibson, Raymond E.: *See—*

Rzeszotarski, Waclaw J.; Gibson, Raymond E.; Eckelman, William C.; and Reba, Richard C., 4,644,003, Cl. 514-304.000.

Gibson, Rodney W., to U.S. Philips Corporation. Quadrature demodulation data receiver with phase error correction. 4,682,117, 7-21-87, Cl. 329-50.000.

Gibson, Royce G., to Tendapak Holdings Pty. Limited. Material forming apparatus. 4,689,856, 9-1-87, Cl. 17-32.000.

Gibson, Russell K. Power squat, multi-lifting weight apparatus 4,674,160, 6-23-87, Cl. 272-134.000.

Gibson-Stephens Neuropharmaceuticals, Inc.: *See—*

Hruby, Victor J., 4,649,191, Cl. 530-329.000.

Hruby, Victor J.; and Pelton, John T., 4,684,620, Cl. 514-11.000

- Gibson, William: *See*—
  - Clare, Kenneth; and Gibson, William, 4,693,728, Cl. 8-561.000.
- Gibson, William A.; and Talmage, John E., Jr., to Elographics, Inc. Fabric touch sensor and method of manufacture. 4,659,873, 4-21-87, Cl. 178-18.000.
- Gibson, William A.; and Talmage, John E., Jr., to Elographics, Inc. Electrographic touch sensor and method of reducing bowed equipotential fields therein. 4,661,655, 4-28-87, Cl. 178-18.000.
- Gibson, William A.: *See*—
  - McConnell, Matthew L.; and Gibson, William A., 4,641,378, Cl. 455-619.000.
  - Talmage, John E., Jr.; and Gibson, William A., 4,687,885, Cl. 178-18.000.
- Gibson, William C.: *See*—
  - Moyer, Mark C.; Perry, William D.; Silvus, H. Stanley, Jr.; Gibson, William C.; and Kusenberger, Felix N., deceased, 4,675,604, Cl. 324-220.000.
- Gibson, William H., to Otis Elevator Company. Modular gearless elevator drive. 4,679,661, 7-14-87, Cl. 187-20.000.
- Gick, Wilhelm: *See*—
  - Kessen, Gunther; Cornils, Boy; Gick, Wilhelm; Wiebus, Ernst; Hibbel, Joseph; Bach, Hanswilhelm; and Zgorzelski, Wolfgang, 4,684,750, Cl. 568-883.000.
  - Konkol, Werner; Bahrmann, Helmut; Dambkes, Georg; Gick, Wilhelm; Wiebus, Ernst; and Bach, Hanswilhelm, 4,711,648, Cl. 55-73.000.
- Gicquel, Sylvain: *See*—
  - Casier, Yves; Cassagne, Philippe; Dore, Bernard; and Gicquel, Sylvain, 4,638,943, Cl. 237-7.000.
  - Casier, Yves; Cassagne, Philippe; Gicquel, Sylvain; and Junet, Roland, 4,640,458, Cl. 237-17.000.
- Giddey, Claude; Averbe, Andre; and van Schouwenburg, Aaltje, to Battelle Memorial Institute. Method for fabricating a thickener concentrate for thickening sauces. 4,671,966, 6-9-87, Cl. 426-589.000.
- Giddey, Claude: *See*—
  - Armanet, Jean-Michel; Giddey, Claude; and Sachetto, Jean-Pierre, 4,665,158, Cl. 530-357.000.
- Giddings, David M., and Williamson, Charles D., to Nalco Chemical Company. Terpolymer composition for aqueous drilling fluids. 4,678,591, 7-7-87, Cl. 252-8.514.
- Giddings, Gary M., to Discovision Associates. Method and apparatus for locating a selected track on a record disc. 4,701,898, 10-20-87, Cl. 369-32.000.
- Giddings, Gary M., to Discovision Associates. Method and apparatus for recovering information from a videodisc. 4,706,133, 11-10-87, Cl. 358-342.000.
- Gidley, John L., to Exxon Production Research Company. Baffle system for conducting well treating operations. 4,715,443, 12-29-87, Cl. 166-250.000.
- Gidlof, Karl G.: *See*—
  - Almer, Bengt O., and Gidlof, Karl G., 4,661,010, Cl. 404-6.000.
- Gidlund, Per A. L., and Zamore, John A. L., to Atlas Copco Aktiebolag. Riveting device. 4,676,422, 6-30-87, Cl. 227-51.000.
- Gidlund, Per Adolf L., to Atlas Copco Aktiebolag. Device for assembling by riveting two or more sections of a structure. 4,662,556, 5-5-87, Cl. 227-69.000.
- Gidon, Georges; and Richard, Claude, to Rey, Aussedat. Method and paper for printing by magnetography and documents printed on paper of this type. 4,689,282, 8-25-87, Cl. 430-39.000.
- Gidrol, Jean C.: *See*—
  - Le Mouellic, Georges; Brun, Jean-Paul; and Gidrol, Jean C., 4,646,263, Cl. 365-1.000.
- Gidseg, Edward. Circulating air refrigerator with removable divider shelf. 4,638,644, 1-27-87, Cl. 62-329.000.
- Gidseg, Edward. Apparatus and method for fabricating refrigeration cabinets. 4,676,852, 6-30-87, Cl. 156-79.000.
- Giebel, Gerhard, to USM Corporation. Pulling over and toe lasting machine. 4,649,584, 3-17-87, Cl. 12-14.500.
- Giebel, Gerhard, to USM Corporation. Shoe machine. 4,653,133, 3-31-87, Cl. 12-8.800.
- Giebel, Gerhard; Broning, Manfred; and Fichtner, Rudi, to USM Corporation. Pulling over and toe lasting machine. 4,688,288, 8-25-87, Cl. 12-14.500.
- Giebel, Wolfgang; and Meixner, Heinrich, to Siemens Aktiengesellschaft. Wrap for filling cavities, particularly in cable fittings, with insulating compound and a method for filling the cavities. 4,707,200, 11-17-87, Cl. 156-48.000.
- Giebel, Wolfgang: *See*—
  - Bachel, Ernst; and Giebel, Wolfgang, 4,713,272, Cl. 428-36.000.
  - Bachel, Ernst; and Giebel, Wolfgang, 4,714,277, Cl. 285-39.000.
- Giebeler, Eberhard; and Wilhelm, Gerhard, to Ruetgerswerke Aktiengesellschaft. Process for improving wood and use of the improved wood. 4,678,715, 7-7-87, Cl. 428-537.100.
- Giebeler, Robert H.; and Parkes, Christopher W., to Beckman Instruments, Inc. Centrifuge overspeed protection and imbalance detection system. 4,700,117, 10-13-87, Cl. 318-327.000.
- Gieberei Kohlscheid GmbH: *See*—
  - Patterson, Jochen, 4,668,183, Cl. 432-80.000.
- Giebmanns, Karl-Heinz. Method and apparatus for improved polishing of turbine blades. 4,686,796, 8-18-87, Cl. 51-144.000.
- Giede, Karl: *See*—
  - Hollenberg, Detlef; Cortekar, Hans-Wolfgang; Giede, Karl; and Hoffkes, Horst, 4,666,712, Cl. 424-71.000.
- Gieg, Gerald T. Method for positioning rear trailer in tandem tractor-trailer assembly. 4,653,771, 3-31-87, Cl. 280-477.000.
- Giehl, Klaus U., to Steinhardt, Lothar. Device for regulating the discharge of fluid from a container. 4,694,854, 9-22-87, Cl. 137-519.000.
- Giehl, Klaus-Ulrich, to Lothar Steinhardt. Flow-control device. 4,702,271, 10-27-87, Cl. 137-389.000.
- Giehll, Harry W.: *See*—
  - Koda, Nobuo J.; Bleha, William P., Jr.; Giehll, Harry W.; Reinsch, Stephen J.; and Robusto, Paul F., 4,650,286, Cl. 350-331.00R.
- Gielkens, Arnold L. J.: *See*—
  - Berns, Antonius J. M.; and Gielkens, Arnold L. J., 4,680,176, Cl. 424-89.000.
- Giere, David W., to Eaton Corporation. Hydrostatic transaxle and locking differential and brake therefor. 4,696,164, 9-29-87, Cl. 60-485.000.
- Gierenz, Gerhard: *See*—
  - Dierichs, Wolfgang; Gierenz, Gerhard; and Kraus, Gabriella, 4,639,475, Cl. 523-164.000.
  - Dierichs, Wolfgang; Gierenz, Gerhard; and Kraus, Gabriella, 4,696,836, Cl. 427-208.400.
- Gierhart, Dennis L.: *See*—
  - Friend, Beverly A.; Gierhart, Dennis L., and O'Brien, Judy K., 4,642,236, Cl. 426-44.000.
- Giering, Wilfried: *See*—
  - Gockel, Harald; Thewalt, Reiner; and Giering, Wilfried, 4,688,661, Cl. 188-196.00D.
- Gierlinger, Friedrich: *See*—
  - Heller, Arthur; Gierlinger, Friedrich; and Schaumberger, Alfred, 4,646,137, Cl. 358-23.000.
- Giersch, Wolfgang K.: *See*—
  - Schulte-Elte, Karl-Heinrich; Ohloff, Gunther; Muller, Bernard L.; and Giersch, Wolfgang K., 4,711,875, Cl. 512-1.000.
- Gierse, Dieter: *See*—
  - Schmetz, Peter; and Gierse, Dieter, 4,634,103, Cl. 266-80.000.
  - Schmetz, Peter; and Gierse, Dieter, 4,713,124, Cl. 148-128.000.
- Gierse, Franz-Josef; Hermanns, Heinrich; Lupnitz, Gerhard; Pabst, Manfred; and Schlicht, Heribert, to A. Monforts GmbH & Co. Stretching machine. 4,646,402, 3-3-87, Cl. 26-86.000.
- Giersig, Manfred: *See*—
  - Haas, Peter; Weber, Hans-Ulrich; Sommerfeld, Claus-Dieter; Giersig, Manfred; and Wiedermann, Rolf, 4,681,903, Cl. 521-167.000.
- Giertz, Franz; and Bonn, Bernhard, to Bergwerksverband GmbH. Power and heat generation from fuels. 4,651,520, 3-24-87, Cl. 60-39.464.
- Gierut, Joseph J.: *See*—
  - DeRoss, Robert; and Gierut, Joseph J., 4,660,917, Cl. 339-97.00R.
- Gies, Jakob. Tree stand having a casting with clamping devices for holding a tree trunk. 4,712,328, 12-15-87, Cl. 47-40.500.
- Giesberg, Daniel J. Film illuminator. 4,691,267, 9-1-87, Cl. 362-218.000.
- Giesbrecht, George G.: *See*—
  - Tolonen, Eric; Tubbe, Clifford J.; Giesbrecht, George G.; and Wiens, John A., 4,683,095, Cl. 264-171.000.
- Giesch, Nick J. Hydraulic universal gym. 4,667,955, 5-26-87, Cl. 272-130.000.
- Giese, David E.: *See*—
  - Hoover, John C.; and Giese, David E., 4,697,158, Cl. 333-1.100.
- Giese, John D., to Mepaco, Inc. Valve to control the rate and shape of a fluid stream. 4,702,279, 10-27-87, Cl. 137-625.170.
- Giese, Ludi, to Paccar Inc. Increased roll stability suspension system. 4,667,974, 5-26-87, Cl. 280-81.00A.
- Giese, Manfred: *See*—
  - Patzer, Helmut; Giese, Manfred; and Muller, Rudolf, 4,698,889, Cl. 29-159.200.
- Giese, Peter; Holzmann, Rainer; Schwochert, Hans-Joachim; and Thomas, Alfred, to Kautex-Werke Reinold Hagen AG. Blow molding apparatus. 4,699,585, 10-13-87, Cl. 425-522.000.
- Giese, Roger W. Method of chemical analysis employing molecular release tag compounds. 4,650,750, 3-17-87, Cl. 435-7.000.
- Giese, Roger W. Amidobiotin compounds useful in a avidin-biotin multiple layering process. 4,656,252, 4-7-87, Cl. 530-350.000.
- Giese, Roger W., to Northeastern University. Molecular analytical release tags and their use in chemical analysis. 4,709,016, 11-24-87, Cl. 530-389.000.
- Giesecke, Henning: *See*—
  - Sirinyan, Kirkor; Merten, Rudolf; and Giesecke, Henning, 4,657,786, Cl. 427-304.000.
- Gieseke, Steven S.; and Engel, Donald F., to Donaldson Company, Inc. Air-intake, moisture-eliminator duct apparatus. 4,699,639, 10-13-87, Cl. 55-385.00B.
- Gieseking, John H., to United Technologies Diesel Systems, Inc. Electromagnetic fuel injector. 4,660,770, 4-28-87, Cl. 239-585.000.
- Gieselman, David A. Casting rod handle with pistol grip and butt extension. 4,654,996, 4-7-87, Cl. 43-23.000.
- Giesen, Franz-Josef: *See*—
  - Bechen, Heribert; Giesen, Franz-Josef; Lonne, Klaus; and Majewski, Klaus-Peter, 4,656,085, Cl. 428-290.000.
  - Zerfass, Hans-Rainer; Majewski, Klaus-Peter; and Giesen, Franz-Josef, 4,635,948, Cl. 277-235.00B.
  - Zerfass, Hans-Rainer; and Giesen, Franz-Josef, 4,681,800, Cl. 428-283.000.
- Giesenberg, Peter: *See*—
  - Weber, Berthold; Giesenberg, Peter; and Steimel, Johannes, 4,639,589, Cl. 250-203.00R.
- Giesl, Johann, to Elektromanufaktur Zangenstein Hanauer GmbH & Co. Circuit for the continuous watching of the grounding resistance of electrical appliances. 4,709,164, 11-24-87, Cl. 307-326.000.

Giesselmann, Juergen: *See—*
Leicht, Werner; Ruetz, Georg; and Giesselmann, Juergen, 4,702,672, Cl. 415-164.000.

Giesselmann, Jurgen: *See—*
Ruetz, Georg; and Giesselmann, Jurgen, 4,696,620, Cl. 415-164.000.

Gieszl, Cliff: *See—*
Berg, Joseph A.; Gieszl, Cliff; Jones, Lee R.; and Hughes, Leonard W., 4,650,247, Cl. 297-284.000.

Gietema, Jouke; and Oude Elberink, Bernard H. M., to Hollandse Signaalapparaten B.V. Data converter for a pulse radar apparatus. 4,710,773, 12-1-87, Cl. 342-185.000.

Gietman, Peter J., Jr., to Custom Machinery Design, Inc. Plastic bag making machine. 4,642,084, 2-10-87, Cl. 493-190.000.

Gietman, Peter J., Jr., to Custom Machinery Design, Inc. Coreless winder. 4,667,890, 5-26-87, Cl. 242-55.000.

Gietman, Peter J., Jr., to Custom Machinery Design, Inc. Coreless winder for strips of pliable material. 4,695,005, 9-22-87, Cl. 242-56.00R.

Giezeman, Paulus G.; and Romualdus Ter Horst, Gerhardus E., to OCE-Nederland B.V. Exposure device for sheets. 4,713,674, 12-15-87, Cl. 355-14.0SH.

Giffen, William M., Jr.: *See—*
Li, George S.; and Giffen, William M., Jr., 4,663,050, Cl. 210-649.000.

Giffin, Henry D.: *See—*
Freakley, Philip K.; Matthews, Bernard R.; and Giffin, Henry D., 4,657,871, Cl. 436-55.000.

Giffin, Lyle: *See—*
Schaeffer, Gaston 4,655,465, Cl. 280-11.120.

Giffone, Ralph A.: *See—*
Galvin, Aaron A.; Mason, Douglas L.; Leff, Kenneth J.; Schide, John N.; and Giffone, Ralph A., 4,687,924, Cl. 250-216.000.

Gifford, Hanson S., III; and Simpson, John B., to Devices for Vascular Intervention. Single lumen atherectomy catheter device. 4,669,469, 6-2-87, Cl. 128-305.000.

Gifford, Michael F.; and Coffman, James H., to Coffman Systems, Inc. Coin counter. 4,638,825, 1-27-87, Cl. 133-8.00R.

Gifford, William E.: *See—*
Covert, Charles H.; Gifford, William E.; Kemler, Craig G.; and Paddock, Gordon R., 4,714,485, Cl. 55-189.000.
Fornuto, Joseph; Gifford, William E.; and Meyer, Karen M., 4,683,862, Cl. 123-520.000.
Fornuto, Joseph; Gifford, William E.; Nolan, Daniel; and Sherwood, Carl H., 4,706,708, Cl. 137-588.000.

Gifu Husky Co., Ltd.: *See—*
Ozeki, Hirofumi; and Kambe, Takahide, 4,657,496, Cl. 425-130.000.

Gigandet, Richard W.: *See—*
Bratton, Ronald E.; Gigandet, Richard W.; Henke, Mitchell C.; Kaminski, Daniel S.; and Wibel, Michelle A., 4,701,340, Cl. 426-511.000.

Giger, Rudolf K. A.: *See—*
Nozulak, Joachim; and Giger, Rudolf K. A., 4,656,167, Cl. 514-227.000.

Giger, Urs, to ETA S.A. Fabriques d'Ebauches. Timepiece comprising at least one chronograph function. 4,655,606, 4-7-87, Cl. 368-160.000.

Giger, Urs: *See—*
Oechslin, Ludwig; Giger, Urs; and Sporing, Jorg, 4,711,583, Cl. 368-16.000.

Giggard, Earl D.; Khoury, Nick S.; and Terrien, Donald R., to Continental Group, Inc., The. Paint can having plural plug and handle securing arrangement. 4,676,392, 6-30-87, Cl. 220-284.000.

Gigli, Mario. Aerated grate covering device for the sheltering from sun and rain with manual and/or automatic control. 4,671,023, 6-9-87, Cl. 52-1.000.

Giglia, Robert D., to American Cyanamid Company. Reinforced metal substrate. 4,648,902, 3-10-87, Cl. 75-229.000.

Giglia, Robert D.; and Clasen, Richard H., to American Cyanamid Company. Articles coated with adherent diamondlike carbon films. 4,698,256, 10-6-87, Cl. 428-216.000.

Giglio, Tony: *See—*
Guignard, Claude; Giglio, Tony; and Benmiloud, Abdelkader, 4,685,453, Cl. 128-90.000.

Gigliotti, Francis: *See—*
Insel, Richard A.; and Gigliotti, Francis, 4,689,299, Cl. 435-240.270.

Gigliotti, Fred. Checkbook recording device. 4,640,018, 2-3-87, Cl. 33-562.000.

Giguere, Irving J.; and Gianni, Thomas R., to Superior Electric Company, The. Means and method for stepping motor stabilization. 4,647,829, 3-3-87, Cl. 318-696.000.

Giguere, Jean-Paul, to Donat Flamand Inc. Patio-door unit. 4,633,616, 1-6-87, Cl. 49-425.000.

Giguere, Jean-Paul, to Donat Flamand Inc. Sealed double glazing sliding window construction. 4,674,246, 6-23-87, Cl. 52-207.000.

Giguere, Jean-Paul, to Donat Flamand, Inc. Casing window. 4,702,050, 10-27-87, Cl. 52-202.000.

Gijrath, Johannes H. N.; and Vennix, Johannus A., to U.S. Philips Corporation. Color display tube having pivotable suspension means for color selection electrode. 4,670,687, 6-2-87, Cl. 313-404.000.

Gijzeman, Onno L. J.: *See—*
Mesters, Carolus M. A. M.; Geus, John W.; Kuijpers, Eugene G. M.; and Gijzeman, Onno L. J., 4,657,886, Cl. 502-331.000.

Gijzen, Wilhelmus A. H.; and van Rosmalen, Gerard E., to U.S. Philips Corporation. Disc reader with obliquity correction. 4,694,442, 9-15-87, Cl. 369-44.000.

Gik, Lev A.; and Vilensky, Boris I., to Kalinigradsky Technical Institute of Fish Industry and Economy. Method of machining a workpiece with an edge-type rotary cutting tool. 4,663,891, 5-12-87, C 51-288.000.

Giken Kogyo Co., Ltd.: *See—*
Sawaragi, Toru; Kubo, Masayoshi; and Mazaki, Ma 4,650,371, Cl. 405-211.000.

Gil, Kim Y.; and Sun, Lee C., to Korea Advanced Institute of Scien and Technology. Maraging steel having high strength and hig toughness. 4,710,347, 12-1-87, Cl. 420-94.000.

Gila River Products, Inc.: *See—*
Kloss, Thomas M., Jr., 4,690,845, Cl. 428-40.000.
Oliver, Dell B.; and Jahoda, Peter, 4,634,637, Cl. 428-622.000.

Gilain, Jacques: *See—*
Vanlautem, Noel; and Gilain, Jacques, 4,705,604, Cl. 203-67.00

Gilanyi, Frank, to Becor Western Inc. Pipe positioner. 4,687,4 8-18-87, Cl. 414-22.000.

Gilanyi, Robert A., and Schmitt, Ralph H., to Concurrent Compute Corporation. Peripheral controller for coupling data buses havin different protocol and transfer rates. 4,716,525, 12-29-87, C 364-200.000.

Gilardini S.p.A.: *See—*
Lupo, Elio, 4,684,168, Cl. 296-217.000.
Mariani, Lauro, 4,648,817, Cl. 418-152.000.

Gilardone, Joseph C., Jr., to Virginville Patents, Inc. Transfer printe direct embroidered garments, draperies, piece goods or the lik 4,654,044, 3-31-87, Cl. 8-471.000.

Gilb, Tyrell T.: *See—*
Commins, Alfred D.; Gilb, Tyrell T.; and Littleton, Karen W 4,665,672, Cl. 52-295.000.

Gilbarco, Inc.: *See—*
Furrow, Roger W.; Young, Harold R.; and Dye, G. Fran 4,687,033, Cl. 141-59.000.

Gilbaugh, James H., Jr.; and Willock, Charles B. Hand-held medica syringe actuator device. 4,711,250, 12-8-87, Cl. 128-765.000.

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Gilbert, Allan H.: *See—*
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Gilbert, Bruce, to Hughes Tool Company. Well cementing method an apparatus. 4,687,063, 8-18-87, Cl. 166-382.000.

Gilbert, Charles H., to Techcon Systems, Inc. Three-way valv 4,646,776, 3-3-87, Cl. 137-226.000.

Gilbert, David L.: *See—*
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Gilbert, Douglas C.: *See—*
Fowler, John T.; and Gilbert, Douglas C., 4,698,912, C 33-356.000.

Gilbert, Douglas J.: *See—*
Johnson, Curtis F.; and Gilbert, Douglas J., 4,687,265, C 439-68.000.

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Gilbert, Everett E., to United States of America, Army. Hexakis (nitroxethyl) melamine useful as an energetic plasticizer. 4,711,67 12-8-87, Cl. 149-96.000.

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Gilbert, Jeffrey G.; Richenbacher, Alan G.; and Smar, Eugene R., to Pennsylvania Power & Light Company. Dual fueled thermoelectr generator. 4,651,019, 3-17-87, Cl. 307-43.000.

Gilbert, Joe W.: *See—*
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Gilbert, Joseph H.: *See—*
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Gilbert, Mark L., 4,703,930, Cl. 273-1.00G.

Gilbert Plastics, Inc.: *See—*
Murphy, Joseph E., 4,671,423, Cl. 220-354.000.

Gilbert, Raymond: *See—*
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Gilbert, Richard D.: *See—*
Morgan, John A.; Bartula, William; and Gilbert, Richard D. 4,657,403, Cl. 368-6.000.

Gilbert, Ronald E., to Reef Industries, Inc. Reinforced metallic and polymer tape. 4,699,838, 10-13-87, Cl. 428-201.000.
Gilbert, Seymour G.: *See—*
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Gilbert, Sheri A.: *See—*
  Sheth, Bhogilal B.; Gilbert, Sheri A.; and Kinsel, Jane F., 4,666,716, Cl. 424-195.100.
Gilbert, Wendell L., to TRW Inc. Method and apparatus for forming valve cores. 4,703,546, 11-3-87, Cl. 29-157.10R.
Gilbert, Zachary R.; and Gorz, Richard A. Wheel-mounted weed trimmer. 4,704,849, 11-10-87, Cl. 56-17.500.
Gilbertson, John E. Filtered warm air drying device. 4,634,839, 1-6-87, Cl. 219-373.000.
Gilbertson, Thomas A. Pressurized, ice-storing chilled water system. 4,656,836, 4-14-87, Cl. 62-185.000.
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  Simmonds, Robert C., Jr.; Gilbride, Andrew J.; and Morse, Albert L. 4,650,538, Cl. 156-578.000.
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Gilby, Anthony C.; and Ihnat, Dale E., to Foxboro Company, The. Method and apparatus for sensing a measurand. 4,713,540, 12-15-87, Cl. 250-231.00R.
Gilby, Anthony C.: *See—*
  Olsen, Everett O.; Gilby, Anthony C.; Chitty, Gordon W.; and Westcott, Vernon C., 4,669,316, Cl. 73-702.000.
Gilch, Heinz; von Voithenberg, Hubertus; and Rengel, Reinhard, to USM Corporation. Adhesive compositions. 4,661,542, 4-28-87, Cl. 524-59.000.
Gilch, Heinz G.; and Haar, Wolfgang, to USM Corporation. Moisture-curable sealant compositions. 4,707,515, 11-17-87, Cl. 524-506.000.
Gilchrist, Robert T., Jr., to Shell Western E&P Inc. Pipelay in slurry trench. 4,714,379, 12-22-87, Cl. 405-163.000.
Gildemeister DeVlieg System Werkzeuge GmbH: *See—*
  Schurfeld, Horst, 4,655,655, Cl. 409-232.000.
Gilden, Meyer: *See—*
  Cheo, Peter K.; and Gilden, Meyer, 4,707,060, Cl. 350-96.140.
Gildenblat, Gennady: *See—*
  Pimbley, Joseph M.; Gildenblat, Gennady; Wei, Ching-Yeu; and Shappir, Joseph, 4,691,433, Cl. 437-44.000.
Gilder, Thomas G., Jr., and O'Dean, Raymond D., to GTE Products Corporation. Method of making packaged IC chip. 4,653,174, 3-31-87, Cl. 29-574.000.
Gilder, Thomas G., Jr., and O'Dean, Raymond D., to GTE Products Corporation. Packaged integrated circuit chip. 4,663,650, 5-5-87, Cl. 357-70.000.
Gilder, Thomas G., Jr.; and O'Dean, Raymond D., to GTE Products Corporation. Segmented lead frame strip for IC chip carrier. 4,663,651, 5-5-87, Cl. 357-70.000.
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  Hernandez, Jorge M., and Gilderdale, Aleta, 4,667,267, Cl. 361-306.000.
  Hernandez, Jorge M.; and Gilderdale, Aleta, 4,706,162, Cl. 361-306.000.
Gilding, D. Keith; Reed, Andrew M.; Askill, Ian N.; and Briana, Stephen G., to Mitral Medical, International, Inc. Biocompatible microporous polymeric materials and methods of making same. 4,704,130, 11-3-87, Cl. 623-66.000.
Gilen, Christer W.; and Kjellander, Gunnar L., to Telefonaktiebolaget LM Ericsson. Digital telephone system. 4,665,515, 5-12-87, Cl. 370-67.000.
Giles, Dale J.; and Mercer, Garry C. Tire bead breaking device. 4,641,699, 2-10-87, Cl. 157-1.170.
Giles, Grady L.; Wilson, Jesse R.; and Hulett, Terry V., to Motorola, Inc. Accelerated test apparatus and support logic for a content addressable memory. 4,680,760, 7-14-87, Cl. 371-21.000.
Giles, Harold F., Jr., to General Electric Company. Modified thermoplastic polyester molding compositions and articles molded therefrom. 4,639,481, 1-27-87, Cl. 524-128.000.
Giles, Harold F., Jr.; and Hirt, Robert P., Jr., to General Electric Company. Polycarbonate compositions. 4,657,972, 4-14-87, Cl. 525-57.000.
Giles, Harold F., Jr.: *See—*
  Rock, John A.; and Giles, Harold F., Jr., 4,657,987, Cl. 525-432.000.
Giles, Philip M., Jr., to Bethlehem Steel Corporation. Creep resistant cold-rolled and annealed steel sheet and strip. 4,662,953, 5-5-87, Cl. 148-36.000.
Giles, Richard: *See—*
  Wiesehahn, Gary P.; Creagan, Richard P.; Stevens, David R.; and Giles, Richard, 4,693,981, Cl. 435-238.000.
Giles, Simon C.: *See—*
  Barker, Antony T.; Giles, Simon C.; and Richardon, Robert, 4,704,543, Cl. 307-106.000.
Giles, William E., to Truckers Comfort Systems, Inc. Compressor mounting bracket. 4,676,473, 6-30-87, Cl. 248-638.000.
Giles, William L., to Ruan, Incorporated. Means and method for reducing the operative height of the fifth wheel of a truck tractor. 4,697,844, 10-6-87, Cl. 296-203.000.
Gilfant, Jean-Pierre; Peze, Andre; Ravillard, Jean-Paul; and Thevenet, Jean-Claude, to Barriquand. Industrial gas operated liquid heater. 4,714,052, 12-22-87, Cl. 122-149.000.
Gilhousen, Klein S.; Heller, Jerrold A.; Van Harding, Michael; and Blakeney, Robert D., II, to M/A-COM Government Systems, Inc.; and Cable/Home Communication Corp. Selective-subscription descrambling. 4,712,238, 12-8-87, Cl. 380-20.000.
Gilkey, Lance R., to Alaska Canning & Marine Equipment, Inc. Method and apparatus for trimming product from can flange area. 4,642,971, 2-17-87, Cl. 53-435.000.
Gilkey, Mark W.: *See—*
  Chupka, David E.; Gilkey, Mark W.; Winkler, Jimmy L.; and Markham, Larry D., 4,663,030, Cl. 209-306.000.
Gill, Arthur, to Anderson Strathclyde PLC. Circular heading machine. 4,687,375, 8-18-87, Cl. 405-146.000.
Gill, David C., to Nomix Manufacturing Co. Limited. Spraying equipment. 4,690,326, 9-1-87, Cl. 239-223.000.
Gill, David C., to Nomix Manufacturing Co. Limited. Spraying equipment. 4,712,738, 12-15-87, Cl. 239-74.000.
Gill, Devinder S.: *See—*
  Schwartz, Paul; Gill, Devinder S.; and McGrath, Kenneth J., 4,680,308, Cl. 514-492.000.
Gill, Frederick A.; and Tocci, Mario P., to Manville Sales Corporation. Fibrous mat facer with improved strike-through resistance. 4,637,951, 1-20-87, Cl. 428-215.000.
Gill, Frederick A.; and Tocci, Mario P., to Manville Service Corporation. Fibrous mat facer with improved strike-through resistance. 4,681,798, 7-21-87, Cl. 428-215.000.
Gill, Geoffrey Y.; Hunter, Paul H.; and Venlet, Gerard W. Spade drill with replaceable cutting-insert carrier. 4,642,001, 2-10-87, Cl. 408-59.000.
Gill, Gurdev S., to Owens-Corning Fiberglas Corporation. Apparatus for packaging loose fibrous material. 4,640,082, 2-3-87, Cl. 53-523.000.
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Gill, Harry A., Jr., to Raytheon Company. Configurable analog integrated circuit. 4,641,108, 2-3-87, Cl. 330-307.000.
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  Large, David J.; Kostka, William G.; and Wayman, Richard A., 4,700,222, Cl. 358-86.000.
Gill, Jasbir S.; and Varsanik, Richard G., to Calgon Corporation. Mercaptobenzothiazole and ferrous ion corrosion inhibiting compositions. 4,668,474, 5-26-87, Cl. 422-14.000.
Gill, Malcolm; and Hoyle, Steven, to Malcolm Gill Ltd. Dental working model moulds. 4,671,769, 6-9-87, Cl. 433-213.000.
Gill, Melvyn: *See—*
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Gill, Michael J., to Brookes & Gatehouse Limited. Speed measurement device. 4,685,093, 8-4-87, Cl. 367-89.000.
Gill, Peter J., to GKN Technology Limited. Automatic clearance adjuster. 4,706,620, 11-17-87, Cl. 123-90.540.
Gill, Peter L.: *See—*
  Boscoe, John J.; and Gill, Peter L., 4,673,925, Cl. 340-572.000.
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Gill, Ronald Y., to Telephone Cables Limited. Production of optical cable. 4,645,628, 2-24-87, Cl. 264-1.400.
Gill, William A.: *See—*
  Arora, Vas D.; Gill, William A.; and Patrick, Charles L., 4,634,154, Cl. 285-353.000.
Gill, William H. Cooking apparatus. 4,704,956, 11-10-87, Cl. 99-427.000.
Gillard, Clive H.: *See—*
  Wilkinson, James H.; and Gillard, Clive H., 4,638,380, Cl. 360-22.000.
Gillard, Jean: *See—*
  Hennebert, Pierre; Gillard, Jean; and Roland, Michel, 4,637,916, Cl. 422-36.000.
Gillard, John; Rokach, Joshua; and Belanger, Patrice C., to Merck Frosst Canada, Inc. Leukotriene antagonists. 4,667,055, 5-19-87, Cl. 562-426.000.
Gillbrand, Per; Johansson, Hans; and Nytomt, Jan, to Saab-Scania Aktiebolag. Method and apparatus for detecting ion current in an internal combustion engine ignition system. 4,648,367, 3-10-87, Cl. 123-425.000.
Gillbrand, Per S.; and Johansson, Sven H., to Saab-Scania Aktiebolag. Ignition system. 4,665,922, 5-19-87, Cl. 123-647.000.
Gillbrand, Per S.; and Johansson, Sven H., to Saab-Scania Aktiebolag. Ignition cassette unit. 4,671,248, 6-9-87, Cl. 123-647.000.
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Gille, Henrick K.; Willing, Richard S.; Bloom, William G.; Siegel, Bernard; Cheung, Tsang; Lobodzinski, Richard; and Gilroy, Keith, to American Hospital Supply Corporation. Liquid meter assembly. 4,712,567, 12-15-87, Cl. 128-771.000.
Gille, Paul: *See—*
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Gillen, Gerard J., Jr. Composite reinforced concrete and timber pile section and method of installation. 4,696,605, 9-29-87, Cl. 405-251.000.
Gillenium, Claes I.: *See—*
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Giller, Henricus F. J. I., to U.S. Philips Corporation. Electrical reflector lamp. 4,672,514, 6-9-87, Cl. 362-297.000.

Gillery, David J.: *See—*
Ellis, Cedric R.; Long, Peter G.; Marshman, Christopher A.; and Gillery, David J., 4,702,246, Cl. 128-303.100.

Gillery, F. Howard; and Criss, Russell C., to PPG Industries, Inc. Stainless steel overcoat for sputtered films. 4,692,389, 9-8-87, Cl. 428-622.000.

Gillery, F. Howard; Criss, Russell C.; and Finley, James J., to PPG Industries, Inc. Protective overcoat for low emissivity coated article. 4,716,086, 12-29-87, Cl. 428-630.000.

Gilles, Ascher; Coustenoble, Jean-Pierre; and Fournial, Jean-Francois. Portable apparatus for monitoring heart activity. 4,635,646, 1-13-87, Cl. 128-696.000.

Gilles, Daniel: *See—*
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Gilles, Helmut: *See—*
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Gilles, Herbert L., to Bethlehem Steel Corporation. System and method for controlling secondary spray cooling in continuous casting. 4,699,202, 10-13-87, Cl. 164-455.000.

Gillespie, Arthur B.: *See—*
Scott-Kestin, Colin B.; Pike, Roger B.; Watkins, Roger D.; Gillespie, Arthur B.; and Deighton, Michael O., 4,679,430, Cl. 73-290.00V.

Gillespie, Daniel W.: *See—*
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Gillespie, David A.; Harrell, Gary R.; and Typrowicz, Wladyslaw, to Abington, Inc. Vacuum cleaning system for the automatic insertion area of a weaving machine. 4,676,277, 6-30-87, Cl. 139-1.00C.

Gillespie, James H.: *See—*
Coggins, Leroy; Murphy, Brian R.; Holmes, Dorothy F.; Anguish, Lynne J.; and Gillespie, James H., 4,683,137, Cl. 424-89.000.

Gillespie, Mark E. Bowstring-mounted aiming sight. 4,656,746, 4-14-87, Cl. 33-265.000.

Gillespie, Noah N. Vertical cross bow and removable stock assembly therefor. 4,711,228, 12-8-87, Cl. 124-25.000.

Gillespie, Robert M.; and Ricks, John R., to Dunkley International Inc. Pit detecting. 4,666,045, 5-19-87, Cl. 209-585.000.

Gillespie, Roger J.; and Tully, Wilfred R., to Roussel Uclaf. 2-(1,2,4-oxadiazol-5-yl) and 2-(1,3,4-thiadiazol-2-yl-imidazo[1,2-a]pyrimidines. 4,703,049, 10-27-87, Cl. 514-258.000.

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Gillet, Guy, to Automobiles Peugeot; and Automobiles Citroen. Pedal carrier, in particular for a clutch and brake, on a motor vehicle. 4,637,741, 1-20-87, Cl. 384-428.000.

Gillet, Paul: *See—*
Fayard, Christian; de Villele, Hubert; and Gillet, Paul, 4,670,225, Cl. 422-203.000.

Gillett, James E.; Garner, Daniel C.; and Sherwood, Donald G., to Westinghouse Electric Corp. Flexible rod guide support structure for inner barrel assembly of pressurized water reactor. 4,687,628, 8-18-87, Cl. 376-353.000.

Gillett, James E.: *See—*
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Gillette Company, The: *See—*
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Case, Laura K.; Gajria, Chandrasen; Loftin, Rachel M.; and Peper, Henry, 4,671,691, Cl. 401-142.000.
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Shurtleff, Jill M.; and Lee, Alejandro C., 4,709,476, Cl. 30-41.000.
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Gillette, Douglas. Space toy construction kit. 4,642,063, 2-10-87, Cl. 446-94.000.

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Gillette, Rodney J.: *See—*
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Gilley, J. Kyle: *See—*
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Gilli, Luigi; and Peiretti, Domenico, to Prima Industrie S.p.A. Laser cutting machine. 4,659,900, 4-21-87, Cl. 219-121.0LG.

Gilli, Luigi: *See—*
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Gilliam, Edward C.; Jackson, John M.; and Lamie, Billy J., to Reynolds Metals Company. Can end tester. 4,637,260, 1-20-87, Cl. 73-826.000.

Gilliam, Julius C., III; and Morse, Richard D. Windshield wiper and cleaner. 4,649,593, 3-17-87, Cl. 15-250.410.

Gilliam, Kenneth R.; Look, Raymond J.; and Thurman, Richard E., to AMP Incorporated. Method of manufacturing high performance fi cable. 4,663,098, 5-5-87, Cl. 264-104.000.

Gillies, Stephen D.; and Tonegawa, Susumu, to Massachusetts Institu of Technology. Enhanced production of proteinaceous materials eucaryotic cells. 4,663,281, 5-5-87, Cl. 435-68.000.

Gilligan, James P.; and Jones, Barry N., to Unigene Laboratories, In α-amidation enzyme. 4,708,934, 11-24-87, Cl. 435-68.000.

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Gilligan, Robert J.; and Green, Jesse. Optical record handling appa tus. 4,662,667, 5-5-87, Cl. 294-16.000.

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Gillilan, James. Rotary power transducer system. 4,691,513, 9-8-87, C 60-495.000.

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Gilliland, Malcolm T. Distributed station welding system. 4,716,27 12-29-87, Cl. 219-130.210.

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Gillis, Don A. Advancing mechanism and system utilizing same fo raising and lowering a work platform. 4,657,438, 4-14-87, C 405-198.000.

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Gillis, Joseph P.; and Jess, Norval M., to Kidde, Inc. Fire suppressio system. 4,637,473, 1-20-87, Cl. 169-61.000.

Gillis, Robert E. Orbit tent. 4,706,696, 11-17-87, Cl. 135-102.000.

Gillispie, John G.; and Mitchell, Donald J., to Eagle Manufacturin Company. Safety container for flammable liquids. 4,645,099, 2-24-8 Cl. 222-472.000.

Gillispie, John G., to Eagle Manufacturing Company. Apparatus fo dispensing fluid. 4,662,544, 5-5-87, Cl. 222-385.000.

Gillissen, Franz. Process for the generation plasma and an MHD gener ator. 4,691,130, 9-1-87, Cl. 310-11.000.

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Gilljam, Hans N.; Chardon, Manfred; Gebald, Gregor; and Illig, Heinz Peter, to Joseph Zimmermann. Coil carrier. 4,702,433, 10-27-87, C 242-118.100.

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Gillot, Jacques: *See—*
Garcera, Daniel; and Gillot, Jacques, 4,640,774, Cl. 210-323.200

Gillson, Alan, to Joloda Loading Systems Limited. Load handling trolley. 4,655,141, 4-7-87, Cl. 104-307.000.

Gillum, Marvis N.: *See—*
Waldie, Arthur H.; Gillum, Marvis N.; and Wilkes, James M. 4,649,738, Cl. 73-38.000.

Gillum, Richard R., to Weapon Technology System R & D Ltd. Handheld high-velocity grenade launcher. 4,689,912, 9-1-87, Cl 42-105.000.

- Gilman, Bernard S. Bistable relay circuit. 4,686,604, 8-11-87, Cl. 361-155.000.
- Gilman, David J.: *See*—
  - Yellin, Tobias O.; Gilman, David J.; Edwards, Philip N.; Large, Michael S.; Jones, Derrick F.; and Oldham, Keith, 4,657,908, Cl. 514-245.000.
  - Yellin, Tobias O.; and Gilman, David J., 4,665,073, Cl. 514-245.000.
  - Yellin, Tobias O.; and Gilman, David J., 4,696,933, Cl. 514-275.000.
- Gilman, Harris H., to Electric Power Research Institute. Process for solidifying solvent refined coal. 4,666,482, 5-19-87, Cl. 62-12.000.
- Gilman, Keith; and Lutz, Bruce W., to Intertech Resources Inc. Exhalation valve assembly. 4,712,580, 12-15-87, Cl. 137-512.150.
- Gilman, Kevin R.: *See*—
  - Casey, Francis J.; DePass, Ernest T.; and Gilman, Kevin R., 4,673,514, Cl. 210-783.000.
- Gilman, Paul S.; and Donachie, Stephen J., to Inco Alloys International, Inc. Method for producing dispersion strengthened aluminum alloys and product. 4,643,780, 2-17-87, Cl. 148-12.70A.
- Gilman, Paul S.; Jatkar, Arun D.; Donachie, Stephen J.; Woodward, Winfred L., III; and Mattson, Walter E., to Inco Alloys International, Inc. Formation of intermetallic and intermetallic-type precursor alloys for subsequent mechanical alloying applications. 4,668,282, 5-26-87, Cl. 75-0.50R.
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- Gilman, Thomas, to Kendall Company, The. Wound dressing. 4,635,624, 1-13-87, Cl. 128-156.000.
- Gilmer, William N., to Texaco Inc. Production of synthesis gas. 4,705,542, 11-10-87, Cl. 55-93.000.
- Gilmore, Arthur H.: *See*—
  - Ryan, James M.; and Gilmore, Arthur H., 4,679,749, Cl. 244-122.00R.
- Gilmore, Carl D.: *See*—
  - Mork, Phillip W.; Kraschnewski, Melvin W.; and Gilmore, Carl D., 4,702,524, Cl. 299-64.000.
- Gilmore, Charles P., Jr., to Gilmore Transportation Services, Inc. Sideboom excavator with lifting means. 4,666,049, 5-19-87, Cl. 212-175.000.
- Gilmore, Charles P., Jr., to Gilmore Transportation Services, Inc. Excavator boom derrick. 4,693,384, 9-15-87, Cl. 212-257.000.
- Gilmore, Dennis W.; and Kugele, Thomas G., to Morton Thiokol, Inc. Asphalt-adhesion improving additives prepared by formaldehyde condensation with polyamines. 4,639,273, 1-27-87, Cl. 106-281.00N.
- Gilmore, G. W.: *See*—
  - Clark, Gary E., 4,638,997, Cl. 273-1.0GD.
- Gilmore, John E.: *See*—
  - Ban, Thomas R.; Dusterhoft, Ernest E.; and Gilmore, John E., 4,678,365, Cl. 404-118.000.
- Gilmore, Mercer D. Cassette tape winding device. 4,703,903, 11-3-87, Cl. 242-179.000.
- Gilmore, Robert L., to General Dynamics Corporation. Punch with compression sleeve. 4,649,733, 3-17-87, Cl. 72-479.000.
- Gilmore Transportation Services, Inc.: *See*—
  - Gilmore, Charles P., Jr., 4,666,049, Cl. 212-175.000.
  - Gilmore, Charles P., Jr., 4,693,384, Cl. 212-257.000.
- Gilmore, William J.; and Easter, Leland E., to Acco Babcock Inc. Automatic conduit anchorage device. 4,657,212, 4-14-87, Cl. 248-56.000.
- Gilmore, William N., Jr.; and Leaver, William H., to Borg-Warner Automotive, Inc. Fluid pressure sensor with temperature indication. 4,659,235, 4-21-87, Cl. 374-143.000.
- Gilmour, Alfred J., to Auto-Flush Systems Ltd. Improved filler tube tip and centering bell bushing. 4,691,748, 9-8-87, Cl. 141-165.000.
- Gilmour, David W.: *See*—
  - Al-Shaar, Adnan H.; Broughton, Barbara J.; Chambers, Robert K.; Gilmour, David W.; Kelsey, Diane M.; Lowden, Peter; Lunt, Edward; Lythgoe, David J.; McClenaghan, Ian; McDougall, Duncan C.; Saunders, Libert C.; Stuttle, Keith A. J.; and Warne, Peter J., 4,659,727, Cl. 514-370.000.
- Gilpin, Jo A.: *See*—
  - Kirchhoff, Robert A.; Schrock, Alan; and Gilpin, Jo A., 4,642,329, Cl. 526-284.000.
- Gilpin, Jo Ann: *See*—
  - Kirchhoff, Robert A.; and Gilpin, Jo Ann, 4,661,193, Cl. 156-307.300.
- Gilroy, John E., to National Nuclear Corporation Limited. Pipework. 4,652,020, 3-24-87, Cl. 285-47.000.
- Gilroy, Keith: *See*—
  - Gille, Henrick K.; Willing, Richard S.; Bloom, William G.; Siegel, Bernard; Cheung, Tsang; Lobodzinski, Richard; and Gilroy, Keith, 4,712,567, Cl. 128-771.000.
- Gilsdorf, John F.: *See*—
  - Toegel, Herbert J.; Yudichak, Joseph R.; and Gilsdorf, John F., 4,639,910, Cl. 370-58.000.
- Gilson, Charles F.: *See*—
  - Gomes, John M.; and Gilson, Charles F., 4,707,790, Cl. 364-478.000.
- Gilson, Jean-Pierre: *See*—
  - Edwards, Grant C.; Gilson, Jean-Pierre; and McDaniel, Carl V., 4,681,864, Cl. 502-63.000.
  - Engel, Dusan J.; and Gilson, Jean-Pierre, 4,691,063, Cl. 568-783.000.
- Gilson, Richard D., to Foggles, Inc. Visual occulsion apparatus for pilot training. 4,698,022, 10-6-87, Cl. 434-36.000.
- Gilson, Richard E.: *See*—
  - Miller, Gary R.; and Gilson, Richard E., 4,640,886, Cl. 430-271.000.
  - Miller, Gary R.; and Gilson, Richard E., 4,647,346, Cl. 204-29.000.
- Gilson, Richard W.: *See*—
  - Cornell, William D.; Gilson, Richard W.; Burkholder, Richard A.; and Ausherman, Ronald W., 4,702,261, Cl. 128-754.000.
- Gilstad, Dennis W.: *See*—
  - Edgar, Reuben W., Jr.; Gilstad, Dennis W.; and Branstetter, Ronald L., 4,714,080, Cl. 128-633.000.
- Gilvar, Martin; Woodrow, Harold E.; and Nasrah, Camille S., to Morgan Construction Company. Carrier module. 4,706,485, 11-17-87, Cl. 72-239.000.
- Gimben, Dale N., to Nordson Corporation. Cable and connection apparatus for electrostatic powder guns. 4,645,151, 2-24-87, Cl. 248-52.000.
- Gimblett, Frederick G. R.: *See*—
  - Sing, Kenneth S. W.; Gimblett, Frederick G. R.; and Freeman, John J., 4,699,896, Cl. 502-423.000.
- Gimelli & Co. AG: *See*—
  - Hommann, Edgar, 4,644,937, Cl. 128-66.000.
  - Hommann, Edgar, 4,655,198, Cl. 128-66.000.
- Gimenez, Isabelle; Barbier, Marie-Jeanne; Maximovitch, Suzanne; and Christidis, Yani, to Societe Francaise Hoechst. Process to manufacture glyoxylic acid by electrochemical reduction of oxalic acid. 4,692,226, 9-8-87, Cl. 204-73.00R.
- Gimeno, Rene: *See*—
  - Huc, Alain; Le Pivert, Patrick; and Gimeno, Rene, 4,670,014, Cl. 604-891.000.
  - Huc, Alain; Gimeno, Rene; and Herbage, Daniel, 4,711,782, Cl. 424-460.000.
- Gimesi, Antal: *See*—
  - Bordas, Barna; Gimesi, Antal; Kovacs nee Kalman, Magda; Janos, Eva; Matolcsy, Gyorgy; and Tuske, Marton, 4,695,309, Cl. 71-88.000.
  - Bordas, Barna; Gimesi, Antal; Kovacs nee Kalman, Magda; Janos, Eva; Matolcsy, Gyorgy; and Tuske, Marton, 4,695,313, Cl. 71-100.000.
  - Matolcsy, Gyorgy; Gimesi, Antal; Pelejtei nee Bauer, Krisztina; Sztatisz, Janisz; Tombor nee Szotyori, Agota; Cserhati, Tibor; Gerlei nee Komaromy, Aniko; Kardos nee Nikoletti, Mariann; Dukai, Jozsef; Sebok, Dezso; Soptei, Csaba; Nagy, Lajos; and Belai, Ivan, 4,672,112, Cl. 536-46.000.
- Gimpel, Franco; and Brichta, Corrado, to Gimpel, Franco. Accelerated crosslinking of polyolefins grafted with silanes. 4,680,319, 7-14-87, Cl. 523-210.000.
- Gimpelson, Alexander: *See*—
  - Giammarco, Nicholas J.; Gimpelson, Alexander; Kaplita, George A.; Lopata, Alexander D.; Scaduto, Anthony F.; and Shepard, Joseph F., 4,707,218, Cl. 156-643.000.
- Gimpelson, George E.; and George, Elias W., to Harris Corporation. One-sided ion migration velocity measurement and electromigration failure warning device. 4,652,812, 3-24-87, Cl. 324-65.00R.
- Gimpelson, George E.; Rivoli, Anthony L.; Gasner, John T.; and George, Elias W., to Harris Corporation. Via metallization using metal fillets. 4,666,737, 5-19-87, Cl. 427-89.000.
- Gimpelson, George E.; Holbrook, Cheryl L.; and Hause, Frederick N., to Harris Corporation. Simultaneous plasma sculpturing and dual tapered aperture etch. 4,705,596, 11-10-87, Cl. 156-643.000.
- Gimpelson, George E.; Holbrook, Cheryl L.; and Rivoli, Anthony L., to Harris Corporation. Photoresist tapering process. 4,705,597, 11-10-87, Cl. 156-643.000.
- Gimpelson, George E.: *See*—
  - Batchman, Theodore E.; and Gimpelson, George E., 4,642,558, Cl. 324-72.500.
- Gimzewski, James K.; and Pohl, Wolfgang D., to International Business Machines Corporation. Scanning tunneling microscope. 4,668,865, 5-26-87, Cl. 250-306.000.
- Gimzewski, James K.: *See*—
  - Bednorz, Johannes G.; Gimzewski, James K.; and Reihl, Bruno, 4,698,502, Cl. 250-306.000.
- Ginat, Jonathan. Swivel tilt mechanism for chair. 4,711,491, 12-8-87, Cl. 297-301.000.
- Ginatta, Marco V.; and Orsello, Gianmichele, to Elettrochimica Marco Ginatta S.p.A. Plant for the electrolytic production of reactive metals in molten salt baths. 4,670,121, 6-2-87, Cl. 204-225.000.
- Ginbey, Leland A.: *See*—
  - Eninger, James E.; Miller, Joseph; Murch, Charles K.; and Ginbey, Leland A., 4,651,834, Cl. 175-18.000.
- Ginder, Harold B.: *See*—
  - Hansen, John C.; Ginder, Harold B.; and Johnson, Lloyd A., 4,653,280, Cl. 62-127.000.
  - Hansen, John C.; Ginder, Harold B.; and Johnson, Lloyd A., 4,660,386, Cl. 62-126.000.
- Gindre, Andre V.: *See*—
  - Harvey, John D.; and Gindre, Andre V., 4,634,724, Cl. 523-219.000.
- Gindy, Sherif S.; and Tremonti, Ronald R., to Eaton Corporation. Constant bending moment device for strain gauge transducers. 4,635,025, 1-6-87, Cl. 338-5.000.
- Gindy, Sherif S.; Amlani, Kishan D.; and Ellwood, Thomas J., to Eaton Corporation. Bonding of strain gages. 4,659,411, 4-21-87, Cl. 156-285.000.
- Ginga, Richard L.: *See*—
  - Rostkowski, Teresa; Zernik, Hava V.; Sarcia, Joseph; and Ginga, Richard L., 4,672,190, Cl. 250-202.000.

Gingerich, David J.; Granitz, Richard F.; Rose, William H.; and Shaffer, David T., to AMP Incorporated. Motor brush assembly. 4,673,837, 6-16-87, Cl. 310-239.000.

Gingerich, Richard G. W.: *See—*
  Scheithauer, Richard A.; Vanderpool, Clarence D.; Miller, Michael J.; and Gingerich, Richard G. W., 4,690,710, Cl. 75-0.5AA.

Gingline, Lin, to Te-Chin Handicraft Enterprise Co., Ltd. Arm rest and handrail assembly for baby carriage. 4,679,806, 7-14-87, Cl. 280-47.380.

Ginley, David S.: *See—*
  Butler, Michael A.; and Ginley, David S., 4,641,037, Cl. 250-390.000.

Ginn, Albert R., Jr., to Metal Building Components, Inc. Cinch strap and backup plate for metal roof endlap joint. 4,655,020, 4-7-87, Cl. 52-551.000.

Ginn, Martin E. Staged detergent/fabric treating preparation for use in washing machines. 4,680,916, 7-21-87, Cl. 53-440.000.

Ginnaga, Akihiro; Koba, Hiroshi; Sakuma, Shin; Kitagawa, Hisashi; Yamada, Akira; and Suzuki, Yoji, to Chemo-Sero-Therapeutic Res. Inst., The; and Teijin Limited. Method for the production of HA fraction containing protective antigens of *Bordetella pertussis* and *pertussis* vaccine. 4,687,738, 8-18-87, Cl. 435-68.000.

Ginnow-Merkert, Hartmut: *See—*
  Garcia, Fernando S.; Ginnow-Merkert, Hartmut; Anderson, Paul J.; Hudson, Bertram J.; and Linde, David E., 4,637,403, Cl. 128-770.000.

Ginsberg, Theodore; and Lira, Miguel R., to Newport AG. Method of stimulating animal growth by administering feed and inosine complex. 4,666,891, 5-19-87, Cl. 514-45.000.

Ginsburg, Leonard: *See—*
  Onik, Gary; and Ginsburg, Leonard, 4,678,459, Cl. 604-22.000.

Ginsburg, Merrill S., to Mobil Oil Corporation. Method for establishing continuity between contiguous data sets. 4,636,955, 1-13-87, Cl. 364-420.000.

Ginter, Herbert; Klingel, Reinhard; and Manner, Reinhard, to Degussa Aktiengesellschaft. Method for densification of powdery silica and article formed thereby. 4,680,043, 7-14-87, Cl. 65-2.000.

Ginter, James F., to Spencer-Johnson Company. Tension compensating web expander roller. 4,692,971, 9-15-87, Cl. 26-103.000.

Ginter, Richard E., to Armstrong World Industries, Inc. Backing block for profile sanders. 4,662,121, 5-5-87, Cl. 51-141.000.

Ginzburg, Vladimir B., to Wean United, Inc. Rolling mill stand employing variable crown rolls and associated method. 4,656,859, 4-14-87, Cl. 72-243.000.

Ginzburg, Vladimir B.; and Ellis, Robert H., to Wean United, Inc.; and International Rolling Mill Consultants, Inc. Shearing apparatus. 4,656,905, 4-14-87, Cl. 83-337.000.

Ginzburg, Vladimir B., to Wean United Rolling Mills, Inc.; and International Rolling Mill Consultants, Inc. Strip tension profile apparatus and associated method. 4,674,310, 6-23-87, Cl. 72-17.000.

Ginzburg, Vladimir B.; and Schmiedberg, Winfried F., to Wean United Rolling Mills, Inc.; and International Rolling Mill Consultants, Inc. Re-radiating heat shield assembly. 4,680,010, 7-14-87, Cl. 432-148.000.

Ginzburg, Vladimir B.; and Jones, G. Brian, to Wean United Rolling Mills, Inc.; and International Rolling Mill Consultants, Inc. Rolling mill strip tension monitoring and shapemeter assembly. 4,680,978, 7-21-87, Cl. 73-862.070.

Ginzburg, Vladimir B.; and Kaplan, Naum M., to Wean United Rolling Mills, Inc.; and International Rolling Mill Consultants, Inc. Flexible edge roll. 4,683,744, 8-4-87, Cl. 72-243.000.

Giocastro, James: *See—*
  Giocastro, Joseph; Giocastro, Peter; and Giocastro, James, 4,708,106, Cl. 123-197.0AC.

Giocastro, Joseph; and Giocastro, Salvatore. Flexible universal gear box system with yokes. 4,637,271, 1-20-87, Cl. 74-386.000.

Giocastro, Joseph; Giocastro, Peter; and Giocastro, James. Acute angle crankarm transmitting reciprocating motion in a rotary fashion. 4,708,106, 11-24-87, Cl. 123-197.0AC.

Giocastro, Peter: *See—*
  Giocastro, Joseph; Giocastro, Peter; and Giocastro, James, 4,708,106, Cl. 123-197.0AC.

Giocastro, Salvatore: *See—*
  Giocastro, Joseph; and Giocastro, Salvatore, 4,637,271, Cl. 74-386.000.

Gioia, G. Leonard. High performance amphibious airplane. 4,691,881, 9-8-87, Cl. 244-106.000.

Gioiosa, Anthony V., to Motorola, Inc. Phase adjustment circuit for scanning video display. 4,672,448, 6-9-87, Cl. 358-148.000.

Giolma, William H.: *See—*
  Blankenship, Gene E.; Gonsalves, Edward M.; Kawate, Keith W.; Sacarisen, Stephen P.; Giolma, William H.; and Spanjol, Damir A., 4,666,582, Cl. 204-404.000.

Giometti, Paul F., to Facet Enterprises, Inc. Engine starter gearing. 4,715,239, 12-29-87, Cl. 74-6.000.

Giometti, Paul F.: *See—*
  Losey, Walter N.; and Giometti, Paul F., 4,712,435, Cl. 74-6.000.

Gion, Hidenori; Kubota, Kenji; Nakamura, Michihiro; and Yano, Makoto, to Kuraray Co., Ltd. Method and device for compensating temperature-dependent characteristic changes in ion-sensitive FET transducer. 4,641,249, 2-3-87, Cl. 364-496.000.

Gion, Hidenori; Yoda, Takumi; Kirita, Yasuzo; Zaima, Kazuhito; and Kurata, Noriyuki, to Kuraray Co., Ltd. Method for easily drawing blood from arm or leg. 4,715,849, 12-29-87, Cl. 604-52.000.

Gionet, Edmond R., to General Motors Corporation. Easy entry seat adjuster slide. 4,671,571, 6-9-87, Cl. 297-341.000.

Gionfriddo, Salvatore, to Energy Research Corporation. Fuel cell stack end plate structure. 4,689,280, 8-25-87, Cl. 429-34.000.

Giordano Associates, Inc.: *See—*
  Jackson, Philip, 4,656,632, Cl. 371-20.000.

Giordano, Claudio; Uggeri, Fulvio; and Minisci, Francesco, to Zambon S.p.A. Process for the preparation of alpha-hydroxyaryl-alkanoic acids. 4,642,376, 2-10-87, Cl. 562-466.000.

Giordano, Claudio; Villa, Giovanni; Uggeri, Fulvio; and Castaldi, Graziano, to Blaschim S.p.A. Process for preparing alkanoic acids or esters thereof by rearrangement of alpha-halo-ketones in protic medium and in the presence of a non-noble metal salt. 4,675,418, 6-23-87, Cl. 549-79.000.

Giordano, Claudio; Castaldi, Graziano; Uggeri, Fulvio; and Cavicchioli, Silvia, to Zambon S.p.A. Process for the preparation of optically active alpha-arylalkanoic acids and novel intermediates thereof. 4,697,036, 9-29-87, Cl. 562-418.000.

Giordano, Joseph F. Lockable sliding gate latching device. 4,648,640, 3-10-87, Cl. 292-228.000.

Giordano, Louis. Run-off trough. 4,693,633, 9-15-87, Cl. 405-119.000.

Giordano, Raymond L., to RCA Corporation. Overvoltage comparator. 4,654,545, 3-31-87, Cl. 307-350.000.

Giordano, Raymond L., to RCA Corporation. Comparator circuit. 4,680,483, 7-14-87, Cl. 307-355.000.

Giordano, Raymond L., to RCA Corporation. Transistor base current regulator. 4,684,878, 8-4-87, Cl. 323-279.000.

Giordano, Raymond L., to RCA Corporation. Level shift circuit including source follower output. 4,695,744, 9-22-87, Cl. 307-279.000.

Giordano, Raymond L.: *See—*
  DeShazo, Thomas R., Jr.; and Giordano, Raymond L., 4,672,302, Cl. 323-277.000.

Giordano, Ronald M.: *See—*
  Thach, Sophany; Salter, Stephen J.; Meyers, Kevin O.; and Giordano, Ronald M., 4,701,271, Cl. 252-8.554.

Giorgadze, Alexandr K.: *See—*
  Chazov, Evgeny I.; Smirnov, Vladimir N.; Vinogradov, Valentin A.; Titov, Mikhail I.; Penin, Vladimir A.; Giorgadze, Alexandr K.; Titova, Galina P.; Bespalova, Zhanna D.; Pekelis, Boris L.; Permyakov, Nikolai K.; Emelyanov, Sergei L.; and Dzhikia, Alexandr A., 4,695,622, Cl. 530-329.000.

Giorgetta, Valerio; Poletta, Vanni; Sartori, Mario; and Siligoni, Marco, to Cselt - Centro Studi e Laboratori Telecomunicazioni S.p.A. Biasing network for multifunction bipolar integrated system. 4,673,830, 6-16-87, Cl. 307-297.000.

Giorgi, Giorgio. Play set for game of skill with pieces formed by cubes. 4,699,602, 10-13-87, Cl. 446-124.000.

Giorgio, Brazzale: *See—*
  Sbalchiero, Carlo; and Giorgio, Brazzale, 4,683,649, Cl. 29-726.000.

Giorgio, Giancarlo; and Parmigiani, Bruno, to Societa' Cavi Pirelli S.p.A. Stop joint for interconnecting two electrical cables of different types. 4,638,112, 1-20-87, Cl. 174-22.00R.

Giorgis, Roberto. Hair dryer. 4,691,451, 9-8-87, Cl. 34-68.000.

Giori, Claudio; and Mylonakis, Stamatios G., to Borg-Warner Chemicals, Inc. Grafted nitrile rubber blends as thermoplastic elastomers. 4,703,083, 10-27-87, Cl. 525-87.000.

Giori, Claudio; and Mylonakis, Stamatios G., to Borg-Warner Chemicals, Inc. Thermoplastic compositions containing nitrile rubber. 4,703,084, 10-27-87, Cl. 525-87.000.

Giovachini, Jean-Luc: *See—*
  Pascal, Jean-Pierre; Giovachini, Jean-Luc; and Croizier, Jacques, 4,677,354, Cl. 318-153.000.

Giovannelli, Antonio: *See—*
  Taragna, Luigi; and Giovannelli, Antonio, 4,664,276, Cl. 215-249.000.

Giovannetti, Antonio: *See—*
  Giovannetti, Fiorello, 4,693,630, Cl. 403-405.100.

Giovannetti, Fiorello, to Giovannetti, Laura; and Giovannetti, Antonio, a part interest to each. Fastening device for releasable interconnection of panels. 4,693,630, 9-15-87, Cl. 403-405.100.

Giovannetti, Laura: *See—*
  Giovannetti, Fiorello, 4,693,630, Cl. 403-405.100.

Giovanni, Conterno: *See—*
  Giovanni, Todescato; and Giovanni, Conterno, 4,709,510, Cl. 51-177.000.

Giovanni, Todescato; and Giovanni, Conterno. Floor sanding and polishing machine. 4,709,510, 12-1-87, Cl. 51-177.000.

Giovannoni, Richard T.; Kung, James K. J.; and Choi, Wai M., to W. R. Grace & Co. Battery separator. 4,699,857, 10-13-87, Cl. 429-204.000.

Giovanola Freres SA: *See—*
  Schmutz, Bernard P., 4,700,632, Cl. 104-63.000.

Giovinazzi, Thomas. Household refrigeration vented beverage dispenser. 4,664,297, 5-12-87, Cl. 222-185.000.

Giovinazzo, Vincent J. Posterior chamber intraocular lens. 4,710,195, 12-1-87, Cl. 623-6.000.

Gipp, Gregory H.: *See—*
  Foley, Donald E.; Gipp, Gregory H.; Schwader, William G.; Sells, Craig L.; Smittkamp, James A.; Stahl, Alan L.; and Szentes, John F., 4,635,739, Cl. 177-45.000.

Gipprich, John W.: *See—*
  Minarik, Ronald W.; Harris, Frederick H.; and Gipprich, John W., 4,654,608, Cl. 332-44.000.

Gipson, Jerome. Sealed enclosure for display objects. 4,646,914, 3-3-87, Cl. 206-45.340.

Gipson, Lamar H.: *See—*
  Batina, William P.; and Gipson, Lamar H., 4,700,707, Cl. 128-419.0PT.

Gipson, Thomas C. Method and apparatus for injection of tubing into wells. 4,673,035, 6-16-87, Cl. 166-77.000.

Gir, Srikant; and Rhodes, Donald E., to Kerr-McGee Corporation. Multi-stage coal liquefaction and fractionation method. 4,664,788, 5-12-87, Cl. 208-415.000.

Girag, David. Pumping system for ships. 4,681,057, 7-21-87, Cl. 114-183.00R.

Giral, Louis; Puygrenier, Marc; and Bompart, Jacques, to Sanofi. Thienopyridinone derivatives and anti-bacterial compositions containing them. 4,663,329, 5-5-87, Cl. 514-301.000.

Giral, Louis: *See—*
  Buiguez, Francois; Giral, Louis; Rosilio, Charles; and Schue, Francois, 4,689,288, Cl. 430-270.000.

Girard, Andre. Picture multiplex analysis hybrid device. 4,703,361, 10-27-87, Cl. 358-260.000.

Girard, Christian: *See—*
  Hourtane, Jean-Luc; and Girard, Christian, 4,689,713, Cl. 361-118.000.

Girard, Dennis: *See—*
  Ahearn, John E.; Frates, Raymond A.; Girard, Dennis; Koepke, Richard A.; Schmidt, James K.; and Manon, C. Dodd, 4,716,082, Cl. 428-428.000.

Girard, Donald A. Ski stiffened in torsion by a bellows-like member. 4,647,061, 3-3-87, Cl. 280-602.000.

Girard, Donald A. Ski stiff in torsion. 4,679,813, 7-14-87, Cl. 280-602.000.

Girard, Donald A. Ski which is stiff in torsion and relatively weak in beam. 4,696,487, 9-29-87, Cl. 280-602.000.

Girard, Donald J.: *See—*
  Belknap, William M.; Chanasyk, Albert J.; O'Dell, Robert R.; and Girard, Donald J., 4,710,871, Cl. 364-200.000.
  Kelch, Russell K.; Finfrock, Don C.; Girard, Donald J.; Seevers, Daniel B.; Briggs, Barry D.; and Mathes, Gene R., 4,683,531, Cl. 364-200.000.

Girard, Francois: *See—*
  Slodzian, Georges; Costa De Beauregard, Francois; Daigne, Bernard; and Girard, Francois, 4,638,160, Cl. 250-296.000.
  Slodzian, Georges; Daigne, Bernard; and Girard, Francois, 4,694,170, Cl. 250-309.000.

Girard, Joel; and Gsell, Norbert, to Vachette. Key with movable plunger, security barrel for said key, and a lock equipped with such a barrel. 4,667,495, 5-26-87, Cl. 70-398.000.

Girard, Joseph S. S., to Alcan International Limited. Controlling aluminium reduction cell operation. 4,675,081, 6-23-87, Cl. 204-67.000.

Girard, Leon E., to Iowa State University Research Foundation Inc. Method and means for securing plastic covered equipment to a support surface. 4,692,968, 9-15-87, Cl. 24-145.000.

Girard, Marc; and van der Werf, Sylvie, to Institut Pasteur. Peptides comprising an immunogenic site of poliovirus and DNAS containing nucleotide sequences coding for these peptides. 4,694,072, 9-15-87, Cl. 530-350.000.

Girard, Richard J.: *See—*
  Newton, Charles L.; Girard, Richard J.; and Cardin, William J., 4,675,111, Cl. 210-416.100.

Girard, Richard T.; and McLaughlin, John R., to PQ Corporation. Mounting beam for preparing wafers. 4,667,650, 5-26-87, Cl. 125-13.00R.

Girard, Theodore A.; and Franklin, Lloyd C., to Glyco Inc. Method for preparing halogenated hydantoins. 4,654,424, 3-31-87, Cl. 548-311.000.

Girard, Yves; Rokach, Joshua; and Hamel, Pierre, to Merck Frosst Canada, Inc. Anti-allergic and anti-thromboembolic 6H-dibenz-[b,e][1,4]-oxathiepin derivatives, compositions, and method of use therefor. 4,663,307, 5-5-87, Cl. 514-2.000.

Girardin, Roger, to Charmilles Technologies S.A. Method and apparatus for rethreading the electrode wire of a travelling wire EDM apparatus through the cut in a workpiece. 4,698,478, 10-6-87, Cl. 219-69.00W.

Girardon, Noel; and Delbar, Jack, to Les Cables de Lyon. Head for laying optical fibers in alternating-lay grooves in a cylindrical core. 4,663,926, 5-12-87, Cl. 57-6.000.

Girardon, Philippe: *See—*
  Ghommidh, Charles; Navarro, Jean-Marie; Girardon, Philippe; and Amen, Jean, 4,687,668, Cl. 426-17.000.

Giraudi, Walter: *See—*
  Radaelli, Dario; and Giraudi, Walter, 4,711,400, Cl. 239-585.000.

Giraudy, Bernard: *See—*
  Ferriere, Dominique; and Giraudy, Bernard, 4,665,317, Cl. 250-562.000.

Girault, Denis: *See—*
  Pascal, Roger; and Girault, Denis, 4,657,279, Cl. 280-636.000.

Giravions Dorand: *See—*
  Allard, Jean-Claude; Briard, Rene; and Saunier, Christian, 4,657,511, Cl. 434-20.000.
  Mendes, Claude, 4,680,472, Cl. 250-386.000.

Giray, Guenes; Huthmacher, Klaus; Kleemann, Axel; and Lied, Thomas, to Degussa Aktiengesellschaft. Process for the production of 1,2-dithiolan-3-pentanoic acid (thioctic acid) and intermediate compounds therefor. 4,705,867, 11-10-87, Cl. 549-39.000.

Girgis, Adly A., to North Carolina State University. Measurement of magnitude and phase angle of voltage and current phasors and frequency deviation in power systems. 4,661,769, 4-28-87, Cl. 324-78.00Z.

Girgis, Mikhail M.; and Lawton, Ernest L., to PPG Industries, Inc. Flexible, chemically treated fibers and coated fabrics thereof. 4,663,231, 5-5-87, Cl. 428-378.000.

Girijavallabhan, Viyyoor M.: *See—*
  Ganguly, Ashit K.; Girijavallabhan, Viyyoor M.; Pinto, Patrick A.; and Versace, Richard W., 4,690,922, Cl. 514-210.000.

Girimont, John V. Key holder with key ejecting means. 4,660,397, 4-28-87, Cl. 70-456.00R.

Girke, Michael: *See—*
  Welp, Ullrich; Kramer, Willi; Girke, Michael; and Lack, Bernd, 4,634,269, Cl. 355-100.000.

Girmés-Werke AG: *See—*
  Fennekels, Peter; Waltmann, Ernst; and Schumacher, Walter, 4,713,531, Cl. 219-545.000.

Giro, Gabriele: *See—*
  Lora, Silvano; Minto, Francesco; DiMarco, Piergiulio; Giro, Gabriele; and Pezzin, Giovanni, 4,657,993, Cl. 525-538.000.

Giroflex Entwicklungs AG: *See—*
  Locher, Hermann, 4,668,012, Cl. 297-300.000.
  Locher, Hermann, 4,684,173, Cl. 297-300.000.

Giroir, Didier; and Lacoste, Gerard, to International Business Machines Corporation. Arbitration method and device for allocating a shared resource in a data processing system. 4,672,536, 6-9-87, Cl. 364-200.000.

Giron, Claude: *See—*
  George, Pascal; and Giron, Claude, 4,650,796, Cl. 514-213.000.

Gironnet, Bernard: *See—*
  Louradour, Guy; Gironnet, Bernard; and Redele, Jean E. A., 4,663,981, Cl. 74-440.000.

Girot, Michael C.: *See—*
  Kay, Peter D.; and Girot, Michael C., 4,659,848, Cl. 556-24.000.
  Kay, Peter D.; and Girot, Michael C., 4,705,568, Cl. 106-26.000.

Girouard, Jimmy J. Colon washing methods and apparatus. 4,682,979, 7-28-87, Cl. 604-48.000.

Giroud, Anne-Marie, to Commissariat a l'Energie Atomique. Phenylcyclohexyl dicarboxylates. 4,714,775, 12-22-87, Cl. 560-194.000.

Giroux, Claude: *See—*
  Veillette, Gaston; and Giroux, Claude, 4,659,063, Cl. 251-68.000.

Giroux, D. William. Mechanical means for preventing the twisting of a fiber optic cable while temporarily storing the same. 4,657,165, 4-14-87, Cl. 226-183.000.

Giroux, D. William. Means for pulling fiber optic cable through a conduit. 4,695,038, 9-22-87, Cl. 254-134.3FT.

Giroux, Richard L.: *See—*
  Stepp, Lee W.; and Giroux, Richard L., 4,712,619, Cl. 166-327.000.

Girrell, Carol A.; and Japka, Joseph E., to Procedyne Corp. Fluidized bed apparatus for treating metals. 4,671,496, 6-9-87, Cl. 266-78.000.

Girse, Martin. Manual device for cleaning clogged drains. 4,674,137, 6-23-87, Cl. 4-255.000.

Gish Biomedical, Inc.: *See—*
  Quick, Richard L., 4,710,176, Cl. 604-177.000.

Gish, Larry D., to Johnson Service Company. Integral base refill system ballcock assembly. 4,709,721, 12-1-87, Cl. 137-437.000.

Gisi, Ulrich: *See—*
  Kaspers, Helmut; Duben, Jiri; and Gisi, Ulrich, 4,701,454, Cl. 514-245.000.

Gisler, Hans; and Boschung, Marcel, to Reberle reg. Treuunternehmen Schaan. Snow-removing machine. 4,685,228, 8-11-87, Cl. 37-197.000.

Gissinger, Bernard C.: *See—*
  Thevenin, Patrick D.; Gissinger, Bernard C.; and Thevenin, Stephane J., 4,656,794, Cl. 52-22.000.

Gissinger, Patrick; and Poutignat, Yves, to Ceraver, S.A. Device for stripping from a mold a composite electrical insulator. 4,690,630, 9-1-87, Cl. 425-236.000.

Gist-Brocades N.V.: *See—*
  Apontoweil, Peter; and Krasselt, Manfred M., 4,645,665, Cl. 424-89.000.
  Apontoweil, Peter; and Krasselt, Manfred M., 4,692,410, Cl. 435-235.000.
  Barker, Sydney A., 4,663,287, Cl. 435-188.000.
  Bos, Jacobus J.; Cuperus, Rinze; and Wielinga, Rudolf, 4,695,628, Cl. 540-312.000.
  Cohen, Alberto, 4,652,374, Cl. 210-603.000.
  Heijnen, Joseph J., 4,655,924, Cl. 210-603.000.
  Hofman, Petrus S.; Hall, David W. R.; and Jaitly, Kapil D., 4,710,571, Cl. 544-216.000.
  Linnett, Paul E.; and Sanders, Johan P. M., 4,677,198, Cl. 530-500.000.
  Robertson, Brian W.; and Phillips, Gareth T., 4,696,901, Cl. 435-180.000.
  Tan, Hong S.; and Wegman, Bernardus B. M., 4,711,777, Cl. 424-79.000.
  van Leusen, Albert M.; and van Leusen, Adriaan M., 4,647,410, Cl. 540-30.000.
  Verweij, Jan; Grootveld, Herman H.; Hirs, Henri G. J.; Van Veen, Gerardus J.; Kalter, Jan; and Henniger, Peter W., 4,695,627, Cl. 540-224.000.

Gitlin, Richard D.; and Werner, Jean-Jacques, to American Telephone and Telegraph Company; and AT&T Information Systems Inc. Inband coding of secondary data. 4,644,537, 2-17-87, Cl. 370-119.000.

Gitlitz, Melvin H.: *See—*
  Russell, David B.; Gitlitz, Melvin H.; Leiner, Howard H.; Khuddus, Mo A.; and Berger, Abe, 4,687,792, Cl. 523-177.000.

Gitman, Grigory M., to American Combustion, Inc. Method and apparatus for flame generation and utilization of the combustion products for heating, melting and refining. 4,642,047, 2-10-87, Cl. 432-13.000.

Gitman, Grigory M., to American Combustion, Inc. Recuperative furnace wall. 4,664,618, 5-12-87, Cl. 431-11.000.

Gitrai S.A.: *See—*
  Belle, Jean P., 4,667,841, Cl. 220-22.000.

Gits Bros. Mfg. Co.: *See—*
  Warner, Dale J., 4,688,807, Cl. 277-93.0SD.

Gittleman, Neal B., to Implant Systems, Inc. Hybrid dental implant system. 4,657,510, 4-14-87, Cl. 433-173.000.

Gittos, Maurice W.; and Hibert, Marcel, to Merrell Dow Pharmaceuticals Inc. 4-(2-pyrimidinyl)-1-piperazinyl heterocyclic carbonyl derivatives. 4,696,927, 9-29-87, Cl. 514-236.000.

Gittos, Maurice W.; and Hibert, Marcel, to Merrell Dow Pharmaceuticals Inc. Aromatic omega-alkyl-imino-tetrahydro-6H-1,3-thiazin-6-one derivatives. 4,704,389, 11-3-87, Cl. 514-226.000.

Gitzendanner, Louis G., to Magnetic Peripherals Inc. Disk cartridge assembly. 4,646,193, 2-24-87, Cl. 360-133.000.

Gitzendanner, Louis G., to Magnetic Peripherals Inc. Means for indexing a rotary arm in small angular steps. 4,701,818, 10-20-87, Cl. 360-106.000.

Giudicelli, Jean-Francois: *See—*
  Najer, Henry; Giudicelli, Jean-Francois; and Dufour, Jean-Claude, 4,663,340, Cl. 514-401.000.

Giudici, Giuliano, to Videocolor. Method and apparatus for detecting evaporation of getter material during manufacture of a cathode-ray tube, especially for television. 4,668,203, 5-26-87, Cl. 445-6.000.

Giudici, Giuliano, to Videocolor. Method and device for heating the electrodes of an electron gun during its manufacture. 4,687,454, 8-18-87, Cl. 445-5.000.

Giuffre, Luigi; Modica, Giovanni; Maffi, Silvia; Tempesti, Ezio; and Pierini, Giancarlo, to European Atomic Energy Community (Euratom). Separator film for the alkaline electrolysis containing polytitanic acid. 4,663,012, 5-5-87, Cl. 204-296.000.

Giuffrida, Giovanni. Brushless alternator. 4,647,806, 3-3-87, Cl. 310-68.00D.

Giuliani, Adrian A.: *See—*
  Galensky, Duane; and Giuliani, Adrian A., 4,665,545, Cl. 379-158.000.

Giuliani, Fernando: *See—*
  Bargiotti, Alberto; Zini, Pierangelo; Penco, Sergio; and Giuliani, Fernando, 4,672,057, Cl. 514-34.000.
  Bargiotti, Alberto; Caruso, Michele; Suarato, Antonino; Penco, Sergio; and Giuliani, Fernando, 4,684,629, Cl. 514-34.000.

Giuliani, Giampiero: *See—*
  Armandillo, Errico; Salvetti, Gianemilio; and Giuliani, Giampiero, 4,682,893, Cl. 356-356.000.

Giuliani, Giovanni, to VECA S.r.l. Valvular device for the inflation of balloons, particularly balloons supported by tubular shafts. 4,681,138, 7-21-87, Cl. 137-516.290.

Giuliani, John F., to United States of America, Navy. Optical waveguide sensor for methane gas. 4,708,941, 11-24-87, Cl. 436-141.000.

Giuliani, John F.: *See—*
  Barrett, Terence W.; and Giuliani, John F., 4,650,329, Cl. 356-345.000.

Giuliani, Karen A.: *See—*
  Giuliani, Robert L.; Giuliani, Mark A.; and Giuliani, Karen A., 4,709,883, Cl. 244-63.000.

Giuliani, Marcello. Rotating cleaner for cotton and wool card in general. 4,642,850, 2-17-87, Cl. 19-105.000.

Giuliani, Marcello. Carding machine provided with self-cleaning blade or reed elements. 4,651,387, 3-24-87, Cl. 19-113.000.

Giuliani, Mark A.: *See—*
  Giuliani, Robert L.; Giuliani, Mark A.; and Giuliani, Karen A., 4,709,883, Cl. 244-63.000.

Giuliani, Pierre: *See—*
  Plumail, Jean-Claude; Le Page, Jean-Francois; and Giuliani, Pierre, 4,655,905, Cl. 208-216.00R.

Giuliani, Robert L.; Giuliani, Mark A.; and Giuliani, Karen A. Launch and ascent system. 4,709,883, 12-1-87, Cl. 244-63.000.

Giuliano, James T., to Zotos International, Inc. Novel process and article for preparing artificial nails. 4,682,612, 7-28-87, Cl. 132-73.000.

Giuliano, James T., to Zotos International, Inc. Form for preparing artificial nails. 4,690,369, 9-1-87, Cl. 249-55.000.

Giulie, Joe D. Shear punch. 4,706,533, 11-17-87, Cl. 83-599.000.

Giulini Chemie GmbH: *See—*
  Schanz, Klaus, 4,639,362, Cl. 423-554.000.

Giurgea, Corneliu: *See—*
  Gobert, Jean; Giurgea, Corneliu; Geerts, Jean-Pierre; and Bodson, Guy, 4,696,942, Cl. 514-424.000.

Giurtino, Joel F., to Cordis Corporation. Pacing system analyzer having provision for direct connection of pacer to pacing leads. 4,705,042, 11-10-87, Cl. 128-419.0PT.

Givati, Izhak, to Shakbar Investments Ltd. Motor vehicle accessory particularly useful for protecting the vehicle against theft. 4,651,849, 3-24-87, Cl. 180-287.000.

Givaudan Corporation: *See—*
  Helmlinger, Daniel; and Pesaro, Mario, 4,634,548, Cl. 252-522.00R.
  Kaiser, Roman, 4,678,604, Cl. 252-522.00R.
  Naegeli, Peter; and Rohr, Martin, 4,669,490, Cl. 131-276.000.
  Naipawer, Richard E., 4,696,766, Cl. 512-8.000.
  Ochsner, Paul A., 4,654,169, Cl. 252-522.00R.
  Ochsner, Paul A., 4,657,700, Cl. 252-522.00R.
  Ochsner, Paul A., 4,668,433, Cl. 252-522.00R.
  Purzycki, Kenneth L.; Ryan, Peter C.; and Leardi, Anthony J., 4,666,671, Cl. 422-5.000.
  Schudel, Peter; Schwarzenbach, Rolf; and Gonzenbach, Hans U., 4,713,473, Cl. 560-053.000.

Given, William B. Ladder tray. 4,660,794, 4-28-87, Cl. 248-238.000.

Givens, Edwin N.; and Kang, Doohee, to International Coal Refin Company. Process for preparing a stabilized coal-water slur 4,675,024, 6-23-87, Cl. 44-51.000.

Givens, Edwin N.: *See—*
  Garg, Diwakar; Givens, Edwin N.; and Schweighardt, Frank K. 4,695,369, Cl. 208-112.000.

Givens, Thomas B., to Visitec Company. Parallax-free optical zo marker. 4,705,035, 11-10-87, Cl. 128-303.00R.

Givens, Wyatt W.; and Bowden, Edgar A., to Mobil Oil Corporatio Multiple frequency electric excitation method and identifying com plex lithologies of subsurface formations. 4,686,477, 8-11-87, C 324-366.000.

Givens, Wyatt W., to Mobil Oil Corporation. Nuclear magnetic res nance borehole logging tool. 4,714,881, 12-22-87, Cl. 324-303.00

Givler, Omar R., to Portage Electric Products, Inc. Thermosta device with leak tight casing. 4,710,743, 12-1-87, Cl. 337-380.00

GIW Industries, Inc.: *See—*
  Day, Wallace, 4,638,847, Cl. 164-55.100.

Gixi Ingenierie Informatique S.A.: *See—*
  Cour, Jean-Michel; and Gibergues, Oliver, 4,670,873, C 370-86.000.

Gjelsvik, Atle: *See—*
  Person, Joel I.; and Gjelsvik, Atle, 4,700,519, Cl. 52-334.000.

Gjertsen, Robert K.; and Wilson, John F., to Westinghouse Electr Corp. Hold-down device of fuel assembly top nozzle employing le springs. 4,671,924, 6-9-87, Cl. 376-285.000.

Gjertsen, Robert K.; and Wilson, John F., to Westinghouse Electr Corp. Burnable absorber rod releasable latching structure. 4,684,49 8-4-87, Cl. 376-446.000.

Gjertsen, Robert K.; Shallenberger, John M.; and Wilson, John F., t Westinghouse Electric Corp. Guide thimble captured locking tube i a reconstitutable fuel assembly. 4,684,500, 8-4-87, Cl. 376-446.00

Gjertsen, Robert K.; and Wilson, John F., to Westinghouse Electr Corp. Top nozzle and guide thimble joint structure in a nuclear fu assembly. 4,687,630, 8-18-87, Cl. 376-446.000.

Gjertsen, Robert K., to Westinghouse Electric Corp. Removable an reusable locking pin for top nozzle assembly and disassembl 4,692,304, 9-8-87, Cl. 376-446.000.

Gjertsen, Robert K.; and Wilson, John F., to Westinghouse Electr Corp. Integral reusable locking arrangement for a removable to nozzle subassembly of a reconstitutable nuclear fuel assemb 4,699,761, 10-13-87, Cl. 376-446.000.

Gjertsen, Robert K.: *See—*
  Carlson, William R.; Gjertsen, Robert K.; and Miller, John V. 4,683,117, Cl. 376-449.000.
  Wilson, John F.; Gjertsen, Robert K.; and Cerni, Samuel, 4,642,21 Cl. 376-451.000.
  Wilson, John F.; and Gjertsen, Robert K., 4,646,414, Cl. 29-426.40
  Wilson, John F.; and Gjertsen, Robert K., 4,646,415, Cl. 29-426.50
  Wilson, John F.; and Gjertsen, Robert K., 4,670,213, C 376-446.000.
  Wilson, John F.; Gjertsen, Robert K.; and Cerni, Samuel, 4,678,61 Cl. 376-156.000.
  Wilson, John F.; and Gjertsen, Robert K., 4,678,625, C 376-261.000.
  Wilson, John F.; Gjertsen, Robert K.; and Cerni, Samuel, 4,684,49 Cl. 376-352.000.
  Wilson, John F.; and Gjertsen, Robert K., 4,684,502, C 376-446.000.
  Wilson, John F.; Gjertsen, Robert K.; and Ferrari, Harry M. 4,684,504, Cl. 376-447.000.
  Wilson, John F.; Cerni, Samuel; and Gjertsen, Robert K., 4,687,61 Cl. 376-260.000.
  Wilson, John F.; Gjertsen, Robert K.; and Cerni, Samuel, 4,687,62 Cl. 376-333.000.
  Wilson, John F.; Gjertsen, Robert K.; and Ferrari, Harry M 4,687,631, Cl. 376-446.000.
  Wilson, John F.; Gjertsen, Robert K.; and Mayers, Joseph B. 4,707,326, Cl. 376-261.000.

Gjeruldsen, Erik: *See—*
  Stageboe, Jan; and Gjeruldsen, Erik, 4,702,648, Cl. 405-224.000

Gjesdal, Harvey J., to Tektronix, Inc. Method for applying elastomeric support pads to rigid casings. 4,696,089, 9-29-87, Cl. 29-451.000.

Gjestrum, Einar; Dragsund, Inge; Skog, Just; and Selvag, Svein, to Geophysical Company of Norway A/S. Assembly for use in seismic surveys of the sea bed. 4,686,660, 8-11-87, Cl. 367-153.000.

Gjestrum, Einar: *See—*
  Dragsund, Inge; and Gjestrum, Einar, 4,716,553, Cl. 367-15.000

Gjota, Rifat. Winding arrangement of a stator and/or rotor of a three phase generator or electromotor with improved performances 4,710,661, 12-1-87, Cl. 310-198.000.

GK Technologies, Incorporated: *See—*
  Tattanelli, Robert; and Thomas, Steven R., 4,667,381, Cl. 2 33.00M.

GKN Automotive Components Inc.: *See—*
  Hazebrook, Daniel W., 4,634,402, Cl. 464-141.000.
  Hazebrook, Daniel W., 4,664,393, Cl. 277-174.000.
  Krude, Werner, 4,669,571, Cl. 180-73.300.
  Krude, Werner, 4,671,370, Cl. 180-73.300.
  Krude, Werner, 4,685,897, Cl. 464-141.000.
  Krude, Werner, 4,705,128, Cl. 180-73.300.

GKN Kwikform Limited: *See—*
  Lovering, Dennis W., 4,648,484, Cl. 182-222.000.

GKN Technology Limited: *See—*
  Barlow, John; and Rogers, David B., 4,667,727, Cl. 164-97.000
  Gill, Peter J., 4,706,620, Cl. 123-90.540.

iKSS Forschungszentrum Geesthacht GmbH: *See*—

Hilgendorff, Walter; Kahn, Gerhard; and Kaschemekat, Jurgen, 4,695,380, Cl. 210-347.000.

Peinemann, Klaus-Viktor, 4,673,418, Cl. 55-158.000.

Schultheiss, Georg; von Minden, Charles; and Fritzke, Hans W., 4,642,300, Cl. 501-124.000.

Timm, Hans; Fries, Soren; and Wenzlaff, Axel, 4,689,148, Cl. 210-321.100.

ilab, Edwin F.: *See*—

Spinelli, Richard A.; Costanza, Daniel W.; Statt, William L.; and Glab, Edwin F., 4,669,857, Cl. 355-8.000.

ilabe, David H.: *See*—

Forrest, William E.; Glabe, David H.; and Wegman, Michael K., 4,703,831, Cl. 182-3.000.

ilaberson, John: *See*—

Brass, Robert L.; Glaberson, John; Mason, Richard W.; L'Heureux, Arthur J., III; Santulli, Scott; Roth, G. Thomas; Frega, John; and Imiolek, Henry S., 4,692,603, Cl. 235-454.000.

ilace, William R.: *See*—

Ibsen, Robert L.; Glace, William R.; and Jensen, Patricia A., 4,674,980, Cl. 433-228.100.

ilachet, Charles: *See*—

Frioux, Christian; Glachet, Charles; Francois, Daniel; and Tentehier, Jean, 4,650,388, Cl. 414-1.000.

ilacial Confections, Inc.: *See*—

Arden, Sidney, 4,663,176, Cl. 426-565.000.

ilacier GmbH—Sollinger Hutte: *See*—

Homes, Helmut, 4,692,981, Cl. 29-402.080.

ilacier Products, Inc.: *See*—

Ames, Theodore; and Brown, Vernon E., Jr., 4,712,920, Cl. 366-144.000.

ilad, Thomas: *See*—

Fukahori, Kiyoshi; and Glad, Thomas, 4,691,172, Cl. 330-129.000.

iladd Industries, Inc.: *See*—

Hubbert, Gordon F., 4,635,361, Cl. 34-54.000.

iladden, Frank R., Jr.: *See*—

Lattuada, Charles P.; and Gladden, Frank R., Jr., 4,709,819, Cl. 206-524.800.

iladden, John R.: *See*—

Barrett, John R.; Cemenska, Richard A.; Gladden, John R.; Moeckel, Mark D.; and Schneider, Philip H., 4,684,321, Cl. 415-202.000.

ladding, Alfred E., and Musil, Edward C., to Flexible Steel Lacing Company. Driver for riveting fasteners to a belt. 4,688,711, 8-25-87, Cl. 227-147.000.

ladding, Charles W.: *See*—

York, Randall A.; and Gladding, Charles W., 4,651,450, Cl. 37-197.000.

ladding, Samuel. Swag bag. 4,700,761, 10-20-87, Cl. 150-111.000.

laddish, Peter: *See*—

Brown, John D.; Gladdish, Peter; and McCormick, Michael A., 4,673,871, Cl. 324-76.00R.

ladfelter, Elizabeth J.; and Rogier, Edgar R., to Henkel Corporation. 5(6)-hydroxymethyl-norbornane-2-carboxylic acid esters and polyurethanes prepared therefrom. 4,649,214, 3-10-87, Cl. 560-120.000.

ladfelter, Harry F., to Raychem Corp. Shielding fabric. 4,684,762, 8-4-87, Cl. 174-36.000.

ladh, Goran: *See*—

Lobell, Hans; Svensson, Klas G.; Gladh, Goran; and Hoglander, Bjorn, 4,637,213, Cl. 60-685.000.

ladish, Herbert E., to E. B. Eddy Forest Products, Ltd. Deformable load support member having a transversely stiff core. 4,687,079, 8-18-87, Cl. 188-268.000.

ladney, Henry M.; Lorch, Douglas J.; and Mattson, Richard L., to International Business Machines Corporation. Communication for version management in a distributed information service. 4,714,992, 12-22-87, Cl. 364-200.000.

ladney, Henry M.; Lorch, Douglas J.; and Mattson, Richard L., to International Business Machines Corporation. Impact calculation for version management in a distributed information service. 4,714,996, 12-22-87, Cl. 364-300.000.

ladney, Tommy C.; and Baker, William E. Ramp for loading small motorized vehicles on pickup trucks. 4,700,421, 10-20-87, Cl. 14-69.500.

adon, Richard J.; and Koranski, David S., to Iowa State University Research Foundation, Inc. Package containing aminooxyacetic acid (AOA) with instructions for use as a plant growth inhibitor. 4,653,641, 3-31-87, Cl. 206-459.000.

adstone, David H.; Langlois, Raymond; and Robertson, William J., to Canada, Her Majesty the Queen in right of. Carbon fibre gun barrel. 4,646,615, 3-3-87, Cl. 89-15.000.

adstone, Philip J. S.: *See*—

Beale, Nicholas C. L.; Rushbrooke, Roger W.; and Gladstone, Philip J. S., 4,709,365, Cl. 371-11.000.

adwin, Kirk M. Method of continuously casting metal slabs. 4,694,880, 9-22-87, Cl. 164-459.000.

adwin, Kirk M., to Westinghouse Electric Corp. Side wall members for continuous casting molds. 4,699,201, 10-13-87, Cl. 164-436.000.

aenzer Spicer: *See*—

Mangiavacchi, Jacques, 4,710,150, Cl. 464-14.000.

Orain, Michel A., 4,702,723, Cl. 464-120.000.

Orain, Michel A., 4,708,693, Cl. 464-111.000.

Poulin, Bernard, 4,698,046, Cl. 464-115.000.

aeser, Linda C.: *See*—

Teller, Raymond G.; Brazdil, James F.; and Glaeser, Linda C., 4,634,789, Cl. 558-451.000.

Glaeser, Robert B. Body protective garment. 4,680,813, 7-21-87, Cl. 2-2.000.

Glaessgen, Herbert; and Kleinheinz, Wolfgang, to Dunlop Limited. Games racket. 4,693,474, 9-15-87, Cl. 273-73.00C.

Glaise, Rene J., to International Business Machines Corporation. Method and device for correcting errors in memories. 4,712,216, 12-8-87, Cl. 371-38.000.

Glaister, Frank J., to High Voltage Engineering Corporation. Wire insulated with a fluorocarbon polymer composition. 4,637,955, 1-20-87, Cl. 428-379.000.

Glaister, Frank J., to High Voltage Engineering Corporation. Method of forming shaped article from a fluorocarbon polymer composition. 4,666,642, 5-19-87, Cl. 264-22.000.

Glaize, Yves: *See*—

Torck, Bernard; Amigues, Pierre; Glaize, Yves; Grangette, Henri; Laurent, Jean; and Fitoussi, Fred, 4,647,703, Cl. 568-697.000.

Glajch, Joseph L.; and Kirkland, Joseph J., to Du Pont de Nemours, E. I., and Company. Substrates with sterically-protected, stable, covalently-bonded organo-silane films. 4,705,725, 11-10-87, Cl. 428-405.000.

Glamkowski, Edward J.; and Chiang, Yulin, to Hoechst-Roussel Pharmaceuticals Inc. Benzo[b]pyrrolo[3,2,1-jk][1,4]benzodiazepines having dopamine receptor activity. 4,663,453, 5-5-87, Cl. 540-556.000.

Glance, Bernard, to American Telephone and Telegraph Company, AT&T Bell Laboratories. Single-photodiode optical heterodyne mixers. 4,697,284, 9-29-87, Cl. 455-619.000.

Glancy, Jerry L., to Boeing Company, The. Automatic deflector for a jet engine bleed air exhaust system. 4,698,964, 10-13-87, Cl. 60-226.200.

Glandt, Carlos A.: *See*—

Van Meurs, Peter; and Glandt, Carlos A., 4,667,739, Cl. 166-250.000.

Glang, Reinhard: *See*—

Hwang, Bao-Tai; Orr-Arienzo, Wendy A.; and Glang, Reinhard, 4,681,657, Cl. 156-657.000.

Glanvall, Rune: *See*—

Andersson, Lars; Glanvall, Rune; Ericson, Kjell; and Lundberg, Anders, 4,684,330, Cl. 417-360.000.

Glanzner, Gary C.: *See*—

Wright, Norman D.; Glanzner, Gary C.; and Signorelli, John A., 4,667,597, Cl. 101-425.000.

Glas, Hans J.; Hecht, Hans; Muller, Klaus; Spitzenberger, Kurt; and Stecher, Gunther, to Robert Bosch GmbH. Pressure measuring element. 4,711,130, 12-8-87, Cl. 73-708.000.

Glasbau Hahn GmbH & Co.Kg.: *See*—

Hahn, Thomas O., 4,696,613, Cl. 414-11.000.

Glasdon Limited: *See*—

Palmer, Eric, 4,643,324, Cl. 220-88.00R.

Glasel, Volker I.: *See*—

Voss, Gunther M.; Glasel, Volker I.; Gruber, Peter; and Bubeck, Walter, 4,707,309, Cl. 264-12.000.

Glaseman, Richard W.: *See*—

Podany, Clayton J.; and Glaseman, Richard W., 4,638,565, Cl. 33-265.000.

Glasenapp, Rudi K. H.: *See*—

Bowdy, Fredrick E.; Glasenapp, Rudi K. H.; and Ridgway, Glen E., 4,681,285, Cl. 244-103.00R.

Glasener, Kenneth A., to Dynagraphic Merchandising Corporation. Self-righting display device. 4,658,526, 4-21-87, Cl. 40-602.000.

Glaser, David M.: *See*—

Jacobine, Anthony F.; and Glaser, David M., 4,640,940, Cl. 522-99.000.

Glaser, Dieter, to Peg Perego-Pines S.p.A. Perambulator. 4,681,331, 7-21-87, Cl. 280-47.360.

Glaser, Dieter, to PEG Perego-Pines S.p.A. Perambulator. 4,684,148, 8-4-87, Cl. 280-647.000.

Glaser, Dieter; and Klemm, Theobald, to VEB Kombinat Textima. Method and apparatus for the removal of liquid from a running yarn. 4,691,450, 9-8-87, Cl. 34-23.000.

Glaser, Donald A., to Glendo Corporation. Controlled impact power tool. 4,594,912, 9-22-87, Cl. 173-115.000.

Glaser, Eberhard, to Ed. Zublin Aktiengesellschaft. Method and arrangement for sealing off dumps to prevent seepage. 4,678,369, 7-7-87, Cl. 405-129.000.

Glaser, Eberhard; and Beitinger, Eberhard, to Ed. Zublin Aktiengesellschaft. Method and apparatus for installing panels into recesses in the ground. 4,679,965, 7-14-87, Cl. 405-258.000.

Glaser, Eberhard: *See*—

Beitinger, Eberhard; and Glaser, Eberhard, 4,678,771, Cl. 502-402.000.

Nussbaumer, Manfred; Glaser, Eberhard; and Beitinger, Eberhard, 4,671,705, Cl. 405-267.000.

Nussbaumer, Manfred; Glaser, Eberhard; and Beitinger, Eberhard, 4,673,316, Cl. 405-267.000.

Nussbaumer, Manfred; Glaser, Eberhard; and Beitinger, Eberhard, 4,690,590, Cl. 405-267.000.

Nussbaumer, Manfred; Glaser, Eberhard; Beitinger, Eberhard; and Eckardt, Hartmann, 4,697,953, Cl. 405-128.000.

Glaser, Gerhard; Lindae, Gerhard; Perthus, Peter; and Rein, Heinz, to Robert Bosch GmbH. Headlight for dim head lamps of motor vehicles. 4,701,834, 10-20-87, Cl. 362-307.000.

Glaser, Hellmut I., to Owens-Corning Fiberglas Corporation. Method and apparatus for producing glass fibers. 4,643,750, 2-17-87, Cl. 65-2.000.

Glaser, Klaus: *See—*

Ziegler, Walter; Dietsche, Wolfram; Weiss, Stefan; Mueller, Richard; Hettche, Albert; Glaser, Klaus; and Vamvakaris, Christos, 4,693,909, Cl. 427-156.000.

Glaser, Luis: *See—*

Adams, Steven P.; Towler, Dwight A.; and Glaser, Luis, 4,709,012, Cl. 530-328.000.

Glaser, Robert L., to L. M. Becker & Co., Inc. Multiple chamber automated vending machine. 4,679,684, 7-14-87, Cl. 194-350.000.

Glaser, Ronald M.: *See—*

Witiak, Donald T.; and Glaser, Ronald M., 4,683,087, Cl. 260-396.00R.

Glaser, Wolfgang: *See—*

Gebhard, Georg R. U.; Hein, Klaus R. G.; and Glaser, Wolfgang, 4,710,365, Cl. 423-244.000.

Glasfabriek Sas van Gent B.V.: *See—*

Swanborn, Johannes C., 4,665,662, Cl. 52-235.000.

Glasheen, W. Michael, to Baird Corporation. Latch for mounting a goggle system to a face mask. 4,675,920, 6-30-87, Cl. 2-427.000.

Glasheen, W. Michael: *See—*

Brennan, Thomas M.; and Glasheen, W. Michael, 4,658,139, Cl. 250-330.000.

Glasow, Peter; and Ruhle, Wolfgang, to Siemens Aktiengesellschaft. Detector apparatus and method for computer tomography and radiography. 4,638,165, 1-20-87, Cl. 250-370.000.

Glass, Alastair M., to AT&T Bell Laboratories. System and process for optical processing of information. 4,642,799, 2-10-87, Cl. 365-114.000.

Glass, Alastair M.; and Johnson, Anthony M., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Integrated optical device having integral photodetector. 4,703,996, 11-3-87, Cl. 350-96.110.

Glass, David W.; and Routt, Wilson M., Jr., to International Business Machines Corporation. Color variation in a passively illuminated display using fluorescent light sources. 4,715,687, 12-29-87, Cl. 350-345.000.

Glass Dimensions, Inc.: *See—*

Perkins, David R., 4,689,727, Cl. 362-161.000.

Glass, Emmett F.; and Howell, Edmund O., to New Holland Inc. Reel lift mechanism for mower-conditioners. 4,715,171, 12-29-87, Cl. 56-192.000.

Glass, Henry P., to Duraco Products, Inc. Spreader. 4,635,818, 1-13-87, Cl. 222-41.000.

Glass, Henry P.: *See—*

Christen, Louis J., Jr.; and Glass, Henry P., 4,665,888, Cl. 126-25.00R.

Glass Incorporated International: *See—*

Lewis, Albert, 4,708,848, Cl. 420-585.000.

Glass, James S.: *See—*

Rollins, Fred P.; and Glass, James S., 4,635,663, Cl. 134-93.000.

Glass, Lee F.: *See—*

Barclay, David F.; and Glass, Lee F., 4,664,389, Cl. 273-343.000.

Glass, Michael; Corsello, Vincent; and Kielczewski, Ewa, to Warner-Lambert Company. Dispensable chewing gum composition, and method of making same. 4,675,190, 6-23-87, Cl. 426-5.000.

Glass, Michael; Hoholick, Joseph; and Orlandi, Daniel A., to Warner-Lambert Company. Low moisture, sugarless, center-filled chewing gum. 4,683,138, 7-28-87, Cl. 426-5.000.

Glass, Samuel W., III, to Babcock & Wilcox Company, The. Calibration impact hammer. 4,689,985, 9-1-87, Cl. 73-1.00R.

Glassco, John M. Geometrical transducer arrangements. 4,673,057, 6-16-87, Cl. 181-144.000.

Glassco, John M.: *See—*

Glassco, Margaret M.; and Glassco, John M., 4,707,870, Cl. 4-661.000.

Glassco, Margaret M.; and Glassco, John M. Toilet seat or cover retaining device. 4,707,870, 11-24-87, Cl. 4-661.000.

Glasscock, M. Sidney: *See—*

Danaczko, Mark A.; Finn, Lyle D.; Glasscock, M. Sidney; Piazza, Michael P.; Steele, Kenneth M.; and Weaver, Timothy O., 4,696,603, Cl. 405-227.000.

Glasscock, Maynard S.: *See—*

Guy, Arthur L.; and Glasscock, Maynard S., 4,648,752, Cl. 405-217.000.

Glasscock, Michael R.: *See—*

Hines, Robin H.; Glasscock, Michael R.; and Johnson, D. Bruce, 4,690,025, Cl. 84-1.180.

Glasser, Albert D., to Westinghouse Electric Corp. Cathode/ground shield arrangement in a sputter coating apparatus. 4,661,233, 4-28-87, Cl. 204-298.000.

Glasser, George M.; DeRobertis, Robert P.; Smithwrick, John H.; and Kelly, William J., to General Foods Corporation. Microwave oven video viewing device. 4,711,979, 12-8-87, Cl. 219-10.55D.

Glasser, Lance A., to Massachusetts Institute of Technology. Non-volatile memory devices. 4,665,503, 5-12-87, Cl. 365-114.000.

Glasser, Lance A.: *See—*

Rettberg, Randall D.; and Glasser, Lance A., 4,700,347, Cl. 371-1.000.

Glassett, Kevin L., to Hewlett-Packard Company. Pen turret rotation for plotters. 4,716,420, 12-29-87, Cl. 346-139.00R.

Glassman, Alexander H., to Research Foundation for Mental Hygiene, Inc. Method of preventing withdrawal symptoms associated with the cessation or reduction of tobacco smoking. 4,683,231, 7-28-87, Cl. 514-220.000.

Glassman, Anthony F., to Smith International, Inc. Graphite electrode construction and method of making. 4,647,748, 3-3-87, Cl. 219-69.00E.

Glassman, Jacob A. Surgical drape. 4,711,236, 12-8-87, Cl. 128-132

Glasstech, Inc.: *See—*

McMaster, Harold A., 4,681,616, Cl. 65-114.000.

Nitschke, Dean M.; Nitschke, David B.; Nitschke, John S.; McMaster, Harold A., 4,661,141, Cl. 65-273.000.

Glatfelter, Edward W., to Boeing Company, The. Low vibration copter rotor. 4,681,511, 7-21-87, Cl. 416-131.000.

Glatt GmbH, Firma: *See—*

Naunapper, Dietmar; and Braun, Gunter, 4,644,665, Cl. 34-

Glatt, Ilana; Livnat, Aminadav; and Kafri, Oded, to State of Israel, Direct determination of modulation transfer function by flectrometry. 4,639,132, 1-27-87, Cl. 356-124.500.

Glatt Maschinen-und Apparatebau AG: *See—*

Leuenberger, Hans, 4,656,056, Cl. 427-213.000.

Glatter, Otto: *See—*

Spiess, Karl; Baberowski, Waldemar; and Glatter, Otto, 4,704, Cl. 29-434.000.

Glatthorn, Raymond H., to Westinghouse Electric Corp. Method inserting a sleeve within a heat exchanger tube. 4,685,186, 8-11-87, 29-157.400.

Glatz AG: *See—*

Glatz, Gustav A., 4,674,523, Cl. 135-21.000.

Glatz, Alfred C.: *See—*

Frost, John R.; Sarich, Nancy J.; Schenz, Timothy W.; and Glatz, Alfred C., 4,701,337, Cl. 426-548.000.

Glatz, Gustav A., to Glatz AG. Suspension umbrella with ball securing device. 4,674,523, 6-23-87, Cl. 135-21.000.

Glatzer, Roland: *See—*

Huebner, Horst; Tauber, Guenter; Hofbauer, Peter; Glatzer, Roland; Beintze, Guenther; Wagner, Dieter; and Riege, Guenter, 4,685,328, Cl. 73-55.000.

Glatzle, Wolfgang, to Schwarzkopf Development Corporation. Process for producing a superconducting wire having a Chevrel phase, 4,704,249, 11-3-87, Cl. 419-4.000.

Glauber, Diane E.: *See—*

Baker, Robert L.; and Glauber, Diane E., 4,635,712, Cl. 165-

Glaudel, Stephen P.; and Grissom, Paul H., to General Signal Corporation. Distributed process control system. 4,689,736, 8-25-87, 364-140.000.

Glaug, Frank S.; Luceri, Thomas J.; and Parr, Deborah J., to Personal Products, Inc. Sanitary napkins with flaps. 4,701,178, 10-20-87, 604-387.000.

Glaus, Bernhard. Process and apparatus for UV-polymerization coating materials. 4,644,899, 2-24-87, Cl. 118-642.000.

Glave, William K.: *See—*

Dorman, Arthur; Glave, William K.; and Birnbach, Curtis, 4,700,076, Cl. 250-370.000.

Glaverbel: *See—*

De Boel, Marcel; Bosquee, Michel; and Goelff, Pierre, 4,654, Cl. 428-426.000.

Geppaard, Adrianus, 4,636,237, Cl. 65-95.000.

Geppaard, Adrianus, 4,656,096, Cl. 428-426.000.

Laroche, Pierre, 4,713,295, Cl. 428-406.000.

Rase, Jean, 4,647,327, Cl. 156-87.000.

Terneu, Robert; and Roucour, Jean, 4,687,687, Cl. 428-34.000.

Van Cauter, Albert; Terneu, Robert; and Van Laethem, Robert, 4,655,810, Cl. 65-60.400.

Van Laethem, Robert; Van Cauter, Albert; and Terneu, Robert, 4,664,059, Cl. 118-323.000.

Glavish, H. F.; Denholm, A. S.; and Simcox, G. K., to Eaton Corporation. Accelerator for ion implantation. 4,667,111, 5-19-87, Cl. 250-492.200.

Glaxo Group Limited: *See—*

Bays, David E.; Webb, Colin F.; and Dowle, Michael D., 4,650, Cl. 514-415.000.

Bell, Richard; Hallam, Paul D.; and Foxton, Michael W., 4,666, Cl. 514-200.000.

Brodie, Alastair C., 4,667,029, Cl. 540-225.000.

Clitherow, John W.; Bradshaw, John; Mackinnon, John W. M.; Judd, Duncan B.; Bays, David E.; Hayes, Roger; and Pearce, Andrew, 4,670,448, Cl. 514-334.000.

Coates, Ian H.; Mills, Keith; Webb, Colin F.; Dowle, Michael D.; and Bays, David E., 4,636,521, Cl. 514-415.000.

Coates, Ian H.; Mills, Keith; Webb, Colin F.; Dowle, Michael D.; and Bays, David E., 4,672,067, Cl. 514-323.000.

Coates, Ian H.; Bell, James A.; Humber, David C.; and Ewan, George B., 4,695,578, Cl. 514-397.000.

Crookes, Derek L., 4,672,133, Cl. 549-495.300.

Knight, David J.; Scopes, David I. C.; Storer, Richard; and Holman, Stuart, 4,690,917, Cl. 514-23.000.

Looker, Brian E., 4,665,167, Cl. 540-225.000.

Newell, Robert E.; Rand, Paul K.; and Osterweil, Carole A., 4,678,106, Cl. 222-162.000.

Phillipps, Gordon H.; and Williamson, Christopher, 4,636,509, Cl. 514-274.000.

Phillipps, Gordon H.; Bain, Brian M.; and Laing, Stuart B., 4,650,610, Cl. 260-397.100.

Phillipps, Gordon H.; Williamson, Christopher; Steeples, Ian P.; Bain, Brian M.; and Borella, Raymond A., 4,650,800, Cl. 514-259.000.

Ravenscroft, Paul, 4,658,044, Cl. 549 415.000.

Strachan, William S.; and Brodie, Alastair C., 4,670,552, Cl. 540-225.000.

Glaxo S.p.A.: *See—*

Lonardi, Silvano; and Ottofaro, Fulvio, 4,669,502, Cl. 137-624.180

Glaze, O. Howard; and Underdown, David R., to Baker Oil Tools, Inc. Proppant charge and method. 4,664,819, 5-12-87, Cl. 252-8.551.

Glaze, Scott A.: *See—*
Michael, Mark S., and Glaze, Scott A., 4,709,699, Cl. 128-317.000.

Glaze, Stanley G.; and Burrage, Robert G., to Lucas Industries public limited company. Electro-hydraulic actuator systems. 4,671,166, 6-9-87, Cl. 91-361.000.

Glazier, Stephen C. Non-reusable syringe. 4,699,614, 10-13-87, Cl. 604-110.000.

Gleason, Anthony M.: *See—*
Mintz, Donald J.; Kelly, Arnold J.; and Gleason, Anthony M., 4,661,226, Cl. 204-186.000.

Gleason, Curtis A.: *See—*
Tanagho, Emil A.; Schmidt, Richard A.; Gleason, Curtis A.; and Lue, Tom F., 4,703,755, Cl. 128-419.00R.

Gleason, Edward F.: *See—*
Wood, Clayton D.; Garrou, Philip E.; Kohatsu, Iwao; and Gleason, Edward F., 4,642,302, Cl. 502-332.000.
Wood, Clayton D.; and Gleason, Edward F., 4,666,881, Cl. 502-325.000.

Gleason, Everett: *See—*
Lash, Edward G.; Levy, Roger; and Gleason, Everett, 4,685,367, Cl. 83-626.000.

Gleason, Francis E.; Emmert, Deborah A.; McClure, Matthew; and McEwan, Ronald W., to Sun Chemical Corporation. Direct process for the production of printing inks. 4,664,710, 5-12-87, Cl. 106-23.000.

Gleason, Kimberly R.: *See—*
Lockwood, Larry R.; Gleason, Kimberly R.; and Strid, Eric W., 4,697,143, Cl. 324-158.00P.
Vetanen, William A.; Gleason, Kimberly R.; and Beers, Irene G., 4,642,259, Cl. 428-137.000.
Vetanen, William A.; Gleason, Kimberly R.; and Beers, Irene G., 4,656,076, Cl. 428-137.000.

Gleason, Lawrence C. Miniature simulated baseball. 4,715,603, 12-29-87, Cl. 273-90.000.

Gleaves, Geoffrey H., to Ropol, Inc. Self-cleaning gutter device. 4,709,516, 12-1-87, Cl. 52-11.000.

Gleba, James S.; Stamatien, James A.; and Fortune, Gregory B., to Westinghouse Electric Corp. Multi-function load controller for carrier load control subsystem. 4,656,593, 4-7-87, Cl. 364-492.000.

Gleich, Gerald J.; Wasmoen, Terri L.; Coulam, Carolyn B.; and Coulam, Carolyn B., to Mayo Medical Resources. Method for the determination of the imminence of labor. 4,710,475, 12-1-87, Cl. 436-86.000.

Gleim, Gunter; and Gyarmati, Sandor, to Deutsche Thomson-Brandt GmbH. Method of starting an electronically commutated direct-current motor. 4,700,115, 10-13-87, Cl. 318-254.000.

Gleixner, Ronald: *See—*
Finck, Albin; Gleixner, Ronald; Hoechamer, Horst; and Pieper, Wolfgang, 4,660,015, Cl. 336-192.000.

Glemser, Oskar; Buss, Dieter H.; and Bauer, Jurgen, to Varta Batterie Aktiengesellschaft. Positive electrode for alkaline storage cells. 4,696,875, 9-29-87, Cl. 429-206.000.

Glen, Bill. Fence wire tightener. 4,634,100, 1-6-87, Cl. 254-213.000.

Glen O'Brien Movable Partition Company, Inc.: *See—*
Teague, Terry S.; Jackson, Donald A.; Kerske, James L.; Nichols, Stephen R.; and McGuire, Robert L., 4,688,750, Cl. 248-243.000.

Glenco Manufacturing, Inc.: *See—*
Neville, Glen F., 4,701,348, Cl. 427-57.000.

Glendinning, Alan B.: *See—*
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Glendo Corporation: *See—*
Glaser, Donald A., 4,694,912, Cl. 173-115.000.

Glengary, Philip J.: *See—*
Grzanowski, Edmund S., Jr.; and Glengary, Philip J., 4,642,477, Cl. 307-113.000.

Glenn, Dennis L. Insulating assembly for window openings. 4,663,904, 5-12-87, Cl. 52-202.000.

Glenn, Douglas J.: *See—*
Glenn, Julian H.; and Glenn, Douglas J., 4,640,208, Cl. 112-265.100.
Glenn, Julian H.; and Glenn, Douglas J., 4,640,209, Cl. 112-429.000.

Glenn, Gary S.; Rajpaul, Vinod K.; and Yurczyk, Roger F., to Boeing Company, The. Integrated system for generating inert gas and breathing gas on aircraft. 4,681,602, 7-21-87, Cl. 55-21.000.

Glenn, Julian H.; and Glenn, Douglas J., to Glenn, Douglas J. Method and apparatus for forming decorative fabrics. 4,640,208, 2-3-87, Cl. 112-265.100.

Glenn, Julian H.; and Glenn, Douglas J., to Glenn, Douglas J. Decorative fabrics. 4,640,209, 2-3-87, Cl. 112-429.000.

Glenn, Max C.; McMullen, Raymond F.; and Wamstad, David B., to Honeywell Inc. Pressure transducer. 4,665,754, 5-19-87, Cl. 73-727.000.

Glenn, Michael I.: *See—*
Dressler, John L.; McConnell, Bobby L.; Glenn, Michael I.; and Holder, Joseph P., 4,650,694, Cl. 427-32.000.

Glenn, Raymond R.; Powshok, Andrew T.; Padgett, Robert S.; Uriarte, Pedro; Cain, Joseph B.; and Thaker, Gautam H., to Harris Corporation. Switched point-to-point local area network control mechanism. 4,707,832, 11-17-87, Cl. 370-124.000.

Glenn, Thomas P.: *See—*
Baer, Scott D.; and Glenn, Thomas P., 4,684,055, Cl. 228-180.100.

Glenn, William E., to New York Institute of Technology. Video display method and apparatus. 4,639,788, 1-27-87, Cl. 358-233.000.

Glenn, William E., to New York Institute of Technology. Video display apparatus and method. 4,641,193, 2-3-87, Cl. 358-233.000.

Glenn, William E., to New York Institute of Technology. Television camera and recording system for high definition television having imagers of different frame rate. 4,652,909, 3-24-87, Cl. 358-41.000.

Glenn, William E., to New York Institute of Technology. High definition television camera system and method with optical switching. 4,667,226, 5-19-87, Cl. 358-41.000.

Glenn, William E., to New York Institute of Technology. Technique for encoding and decoding video with improved separation of chrominance and luminance. 4,701,783, 10-20-87, Cl. 358-12.000.

Glenner, George G.; and Wong, Caine W., to University of California. Polypeptide marker for Alzheimer's disease and its use for diagnosis. 4,666,829, 5-19-87, Cl. 435-6.000.

Glennon, Thomas F.; Creed, Brian T.; Walsh, William J.; and Sokalski, Robert G., to Eaton Corporation. Fluid pressure transducer. 4,671,116, 6-9-87, Cl. 73-728.000.

Glennon, Timothy F.; Olson, Raymond N.; and Straznickas, Donald A., to Sundstrand Corporation. Permanent magnet generator with fault detection. 4,641,080, 2-3-87, Cl. 322-49.000.

Glennon, Timothy F., to Sundstrand Corporation. Voltage regulated permanent magnet generator system. 4,663,581, 5-5-87, Cl. 322-52.000.

Glennon, Timothy F., to Sundstrand Corporation. Hybrid generating system. 4,684,873, 8-4-87, Cl. 322-47.000.

Glenwood Systems U.S.A., Ltd.: *See—*
Showers, David F., and James, Raymond A., 4,690,433, Cl. 283-1.00B.

Glenz, Wolfgang: *See—*
Bathelt, Heinrich; Ehrl, Winfried; Wehowsky, Frank; Kleber, Rolf; Lotz, Werner; Glenz, Wolfgang; Herdt, Hubert; Jackel, Lothar; Mast, Jan-Hilbert; Hintermeier, Karl; and Muller, Manfred, 4,709,074, Cl. 560-33.000.

Glerum, Johannes A.; and Klunder, Robert C., to Thomassen & Drijver-Verblifa NV. Method of manufacturing a container body having a tear strip, the body per se, and a metal blank from which the body is to be manufactured. 4,693,658, 9-15-87, Cl. 413-1.000.

Glesmann, Herbert C.; and Thomas, Ronald G., to Remco. Auxiliary lubrication pump apparatus. 4,642,604, 2-10-87, Cl. 340-60.000.

Gless, Richard D., Jr.: *See—*
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Abbey, Kirk J., 4,683,173, Cl. 428-425.800.
Berghoff, Wellington F., 4,716,200, Cl. 525-111.000.
Bode, Daniel, 4,683,273, Cl. 523-412.000.
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Owens, Phillip M., 4,703,071, Cl. 523-403.000.
Puhk, Heino, 4,699,015, Cl. 73-865.500.
Wickert, Frank A., 4,683,260, Cl. 524-512.000.

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Bottomore, David; and Bottomore, Paul, 4,660,463, Cl. 98-37.000.

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James, Michael J., 4,664,231, Cl. 188-1.120.

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Leeds, Richard; and Roberts, Arthur, 4,709,971, Cl. 312-201.000.

Global Golf Incorporated: *See—*

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Banner, Alvin C., 4,633,577, Cl. 29-597.000.

Finegold, Hyman B.; and Dolgas, Patrick A., 4,677,334, Cl. 310-268.000.

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Mahato, Basanta K.; and Delaney, William C., 4,656,706, Cl. 29-2.000.

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Hiller, Rolf; Vollmer, Heinrich; Beckschafer, Klaus; Glodde, Reimund; and Kramer, Gunter, 4,652,469, Cl. 427-291.000.

Glode, Laurent. Aerostatic roof. 4,662,127, 5-5-87, Cl. 52-2.000.

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Glogowski, Stefan W., to Omni Engineering. Automatic tack-off machine. 4,689,749, 8-25-87, Cl. 364-468.000.

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Glomb, Walter L., Jr., to United Technologies Corporation. Demagnetization compensated deformable magnetostrictive mirror. 4,655,560, 4-7-87, Cl. 350-611.000.

Glomeau, J. Robert, to REXA Corporation. Control valve and hydraulic system employing same. 4,696,163, 9-29-87, Cl. 60-476.000.

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Howell, Jack D.; and Glomski, Arthur F., 4,665,379, Cl. 340-63.000.

Glomski, Stanislas; and Roseberry, Patrick. Missile-throwing weapon. 4,665,885, 5-19-87, Cl. 124-27.000.

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Liebel, Werner; Antesberger, Peter; and Einberger, Peter, 4,700,227, Cl. 358-139.000.

Gloomis, Lawrence A.; and Ches, Gregory S., to General Motors Corporation. Variable release seat belt buckle. 4,638,533, 1-27-87, Cl. 24-633.000.

Gloor, Alfred: *See—*

Killer, Walter; Riniker, Hans; and Gloor, Alfred, 4,674,692, Cl. 241-98.000.

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Douno, Shugo, and Tomiyama, Hiroshi, 4,686,357, Cl. 235-379.0

Hiraoka, Shigeaki; and Seo, Takamasa, 4,697,071, Cl. 235-379.0

Uesaka, Sadaaki; Numata, Toshio; and Umezaki, Kazuno 4,681,229, Cl. 209-534.000.

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Gloskey, Carl R., to Zemex Corporation. Process for the preparation methyltin chlorides. 4,658,046, 4-14-87, Cl. 556-100.000.

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Glotzbach, Ronald W., to Navistar International Transportation Cor Vehicle information on-board processor. 4,677,429, 6-30-87, C 340-711.000.

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Kibble, Michael, 4,699,065, Cl. 105-199.500.

Glover, Alfred H.: *See—*

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Betterton, Joseph T.; and Glover, Alfred H., 4,678,362, C 403-373.000.

Betterton, Joseph T.; and Glover, Alfred H., 4,685,332, C 73-309.000.

Betterton, Joseph T.; Dykoski, Alan W.; Glover, Alfred H.; Law less, Daniel F.; McKee, William D.; and Watson, Troy T 4,706,707, Cl. 137-565.000.

Zeigler, Thornton W., Jr.; Romanczuk, Chris S.; Betterton, Josep T.; and Glover, Alfred H., 4,686,952, Cl. 123-572.000.

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Bowen, Terry P.; and Glover, Douglas W., 4,676,588, C 350-96.210.

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Glover, Gary H., to General Electric Company. Method of eliminatin effects of spurious NMR signals caused by imperfect 180 degree R pulses. 4,714,884, 12-22-87, Cl. 324-309.000.

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Leue, William M.; Hodsoll, Raymond J., Jr.; Glover, Gary H.; an Adamchick, John T., 4,680,547, Cl. 324-309.000.

MacFall, James R.; and Glover, Gary H., 4,709,212, C 324-309.000.

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Glover, John B., to Hepworth Iron Company Ltd., The. Couplin pipes. 4,711,473, 12-8-87, Cl. 285-235.000.

Glover, John D.: *See—*

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Finn, Patrick J.; Glover, Linda M.; Henry, Arnold W.; and Lu Adalbert A., 4,659,621, Cl. 428-339.000.

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Elliott, William O.; and Glover, Mary A., 4,706,826, Cl. 213-61.00

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Glover, Roy A.; Coyle, Peter; and Lee, Denis C. Multiple substructure anatomical organ model. 4,702,701, 10-27-87, Cl. 434-270.000.

Glover, Steven L., to Westinghouse Electric Corp. Process for manufacturing electrical equipment utilizing printed circuit boards. 4,700,880, 10-20-87, Cl. 228-180.100.

Glowacki, Robert D.: *See—*
  Turner, Herman E., Jr.; and Glowacki, Robert D., 4,682,710, Cl. 222-63.000.

Glowacki, Tad. Screw press for dewatering sludge and fiber suspensions. 4,709,628, 12-1-87, Cl. 100-148.000.

GlowCore Corporation: *See—*
  Ihlenfield, Harry; and Warsack, George, 4,657,506, Cl. 431-329.000.

Gluck, Franz: *See—*
  Machler, Meinrad; Bittner, Reinhold; Gluck, Franz; Schlemmer, Harry; and Sachse, Richard, 4,644,632, Cl. 29-469.000.
  Machler, Meinrad; Gluck, Franz; Schlemmer, Harry; and Bittner, Reinhold, 4,655,555, Cl. 350-432.000.

Gluck, Wolfgang, to Krauss-Maffei A.G. Observation and reconnaissance system for armored vehicles. 4,672,435, 6-9-87, Cl. 358-89.000.

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Glunk, Josef, to Klockner-Humboldt-Deutz AG Zweigniederlassung Fahr. Rotary mower for a tractor. 4,691,504, 9-8-87, Cl. 56-192.000.

Gluschenko, Nikolai N.; Golikov, Vladislav V.; and Emelyanov, Viktor A., to Vsesojuzny Nauchno-Issledovatelsky I Konstruktorsky Institut Tsvetmetavtomatika. System for automatic sampling and sample conveyance for analysis. 4,677,864, 7-7-87, Cl. 73-863.510.

Glushko, Mikhail F.; Skalatsky, Viktor K.; and Zakhryamin, Anatoly D., to Odessky Nauchno-Issledovatelsky Otdel Stalnykh. Rope-twisting machine for making ropes. 4,641,492, 2-10-87, Cl. 57-9.000.

Gluzek, Karl-Heinz: *See—*
  Osterburg, Gunther; Gluzek, Karl-Heinz; and Neier, Wilhelm, 4,709,106, Cl. 568-917.000.

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  Stich, Bodo; Hassler, Ernst; and Cyphelly, Ivan J., 4,664,145, Cl. 137-580.000.

Glyco Inc.: *See—*
  Girard, Theodore A.; and Franklin, Lloyd C., 4,654,424, Cl. 548-311.000.
  Theyson, Thomas W., 4,698,165, Cl. 210-755.000.

Glyco-Metall-Werke Daelen & Loos GmbH: *See—*
  Engel, Ulrich; Niegel, Fritz; and Groschen, Jurgen, 4,658,500, Cl. 29-724.000.
  Gerling, Paul, 4,636,095, Cl. 384-117.000.
  Roemer, Erich; Schopf, Eckhart; and Cezanne, Gunter, 4,693,617, Cl. 384-282.000.

Glynn, Kenneth P. Illuminatable belt. 4,652,981, 3-24-87, Cl. 362-103.000.

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  Jones, Conrad D., 4,659,870, Cl. 174-84.00S.

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  Ewen, A. T. E.; and Stone, J. P., 4,684,428, Cl. 156-257.000.
  Marklew, David S., 4,705,058, Cl. 137-15.000.

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  Carter, Scott K.; and Mendenhall, George A., 4,656,909, Cl. 83-874.000.

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  Akeel, Hadi A., 4,638,143, Cl. 215-121.0LQ.
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  Akeel, Hadi A., 4,653,975, Cl. 414-720.000.
  Akeel, Hadi A.; and Poynter, William H., 4,659,279, Cl. 414-680.000.
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  Akeel, Hadi A., 4,708,580, Cl. 414-735.000.
  Coldren, Bruce E.; and Krause, Kenneth W., 4,707,647, Cl. 318-568.000.
  Day, Chia P.; Krause, Kenneth W.; Whitcomb, Louis L.; and Horn, Berthold K. P., 4,639,878, Cl. 364-513.000.
  Hansen, Robert E., Jr.; Murray, James R.; and Zald, Roberta L., 4,679,297, Cl. 29-568.000.
  Janashak, Robert J.; Felice, Christopher G.; and Akeel, Hadi A., 4,708,175, Cl. 141-1.000.

GMI Engineering & Management Institute: *See—*
  Christenson, Robert J., 4,641,835, Cl. 272-87.000.

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  Brandt, Georg, 4,663,890, Cl. 51-283.00R.
  Petermann, Harald; and Bauer, Peter, 4,637,369, Cl. 125-15.000.

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  Samaras, George M.; Blaumanis, Otis R.; and Van Horn, H. William, 4,649,928, Cl. 128-672.000.

GMT Gesellschaft fur Medizinische Technik mbH: *See—*
  Engelbrecht, Eckart; Nieder, Elmar; and Keller, Arnold, 4,645,507, Cl. 623-23.000.

GMT Novotny GmbH: *See—*
  Probst, Georg, 4,700,999, Cl. 439-271.000.

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  Ruhlandt, Gerald K.; and Gmurowski, Romuald, 4,706,732, Cl. 164-353.000.

GN/PI de Luigi Granieri e Figli, S.n.c.: *See—*
  Granieri, Luigi, 4,689,925, Cl. 52-94.000.

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Gnanamuthu, Daniel S.; Moores, Ralph J.; Paton, Neil E.; and Vyhna, Richard F., to Rockwell International Corporation. Non-contact scribing process for organic maskants on metals or alloys thereof. 4,716,270, 12-29-87, Cl. 219-121.0LM.

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GNB Incorporated: *See—*
  Kump, William H.; and Jergl, Joseph J., 4,645,725, Cl. 429-179.000.
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  Milton, Everett C.; and Gregor, Harry P., 4,655,928, Cl. 210-651.000.
  Rao, Purushothama; and Marsh, Frederick L., 4,713,304, Cl. 429-136.000.

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Gnesa, Edward C. Road coating method and apparatus. 4,684,289, 8-4-87, Cl. 404-75.000.

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  Pfeiffer, Otto; and Gnezda, Drago, 4,671,575, Cl. 301-37.0TP.

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Gnirk, Wolfgang: *See—*
  Drescher, Gunter; Fankhanel, Gerhard; and Gnirk, Wolfgang, 4,715,588, Cl. 267-122.000.

GNS Gesellschaft fur Nuklear-Service mbH: *See—*
  Baatz, Henning; Rittscher, Dieter; and Engelage, Herbert, 4,675,129, Cl. 252-633.000.

Gnutti Carlo S.p.A.: *See—*
  Cirelli, Franco, 4,671,748, Cl. 418-83.000.

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  Inoue, Koi; Go, Youki; and Naeki, Yoshihiro, 4,682,439, Cl. 43-24.000.

Goacolou, Honore : *See—*
  Siffert, Marcel; Briant, Gervais; Feunten, Pierre; Goacolou, Honore ; Petitgrand, Jean-Claude; and Peyret, Francois, 4,712,423, Cl. 73-146.000.

Goar, Richard T.; and Tholen, John H., to Minnesota Mining and Manufacturing Company. Double-creased lithoplate and method of mounting on a web press. 4,643,093, 2-17-87, Cl. 101-401.100.

Gob, Werner; and Anders, Peter, to Fichtel & Sachs AG. Viscous fan coupling unit. 4,690,103, 9-1-87, Cl. 123-41.120.

Gob, Werner, to Fichtel & Sachs AG. Fluid friction clutch. 4,706,792, 11-17-87, Cl. 192-58.00B.

Gob, Werner: *See—*
  Brunken, Gerd; Gob, Werner; and Neugebauer, Dieter, 4,676,355, Cl. 192-58.00B.
  Brunken, Gerd; Gob, Werner; and Reis, Oswald, 4,685,549, Cl. 192-58.00B.

Gobbi, Alberto: *See—*

Flosi, Corrado; Gobbi, Alberto; Maccioni, Roberto; and Simonetta, Guerrieri, 4,694,505, Cl. 2-2.000.

Gobbi, Santo R.: *See—*

Mattei, Riccardo; Neri, Armando; Gobbi, Santo R.; and Cantello, Maichi, 4,633,891, Cl. 131-281.000.

Mattei, Riccardo; Neri, Armando; Gobbi, Santo R.; and Cantello, Maichi, 4,660,578, Cl. 131-281.000.

Gobel, Ernst O.; Kuhl, Jurgen; and Veith, Gustav, to Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e.V. Method and an apparatus for the synchronous mode locking of the longitudinal laser modes of a semiconductor diode laser. 4,635,264, 1-6-87, Cl. 372-18.000.

Gobel, Hilmar; and Raab, Harald, to Fichtel & Sachs AG. Hydrodynamic coupling with serially arranged damper units. 4,637,500, 1-20-87, Cl. 192-3.280.

Gobel, Hilmar: *See—*

Fischer, Matthias; Hartig, Franz; Bernhard, Dieter; and Gobel, Hilmar, 4,669,595, Cl. 192-106.200.

Raab, Harald; and Gobel, Hilmar, 4,669,593, Cl. 192-106.200.

Gobel, Richard; and Bielagus, Joseph B., to Beloit Corporation. Disk screen with decreasing size of slot openings, and method. 4,703,860, 11-3-87, Cl. 209-672.000.

Gober, Ruel R. Pilot valve. 4,709,727, 12-1-87, Cl. 137-625.660.

Gobert, Jean; Giurgea, Corneliu; Geerts, Jean-Pierre; and Bodson, Guy, to UCB Societe Anonyme. Treatment of memory impairment using (R)-alpha-ethyl-2-oxo-1-pyrrolidineacetamide. 4,696,942, 9-29-87, Cl. 514-424.000.

Gobert, Jean; Geerts, Jean-Pierre; and Bodson, Guy, to U C B Societe Anonyme. (S)-alpha-ethyl-2-oxo-1-pyrrolidineacetamide. 4,696,943, 9-29-87, Cl. 514-424.000.

Gobien, Eric W., to McKenica Inc. Tube cutoff machine. 4,643,063, 2-17-87, Cl. 83-311.000.

Gobien, Ernst; Haussmann, Gerhard; and Bruetsch, Edgar, to Daimler-Benz Aktiengesellschaft. Liquid-cooled four valve cylinder head for a multi-cylinder internalcombustion engine. 4,658,763, 4-21-87, Cl. 123-41.82R.

Gobran, Diane S.: *See—*

Ersfeld, Dean A.; Sandvig, Timothy C.; and Gobran, Diane S., 4,683,877, Cl. 128-90.000.

Gobran, Ramsis, to Minnesota Mining and Manufacturing Company. Pressure-sensitive adhesive and tape made therewith. 4,652,491, 3-24-87, Cl. 428-355.000.

Gobrecht, Jens; and Rossinelli, Marco, to BBC Brown, Boveri & Company, Limited. Dry etching process. 4,634,495, 1-6-87, Cl. 156-643.000.

Gobrecht, Jens: *See—*

Nippert, Georg; Hahn, Berthold; and Gobrecht, Jens, 4,710,795, Cl. 357-65.000.

Goch, Jerome F.: *See—*

McCormick, Peter E.; Edwards, Rick C.; Autry, Walter D., Jr.; Culbertson, Timothy D.; Goch, Jerome F.; and Linder, Marc S., 4,676,142, Cl. 92-130.00R.

Goch, Thomas A.; and Meek, John R. Microsample blood collecting device. 4,653,511, 3-31-87, Cl. 128-763.000.

Gocho, Nagahiro: *See—*

Sakurada, Masahiko; Manabe, Sugio; Okamura, Hideaki; and Gocho, Nagahiro, 4,636,360, Cl. 422-65.000.

Gocht, Paul G.: *See—*

Hartmann, Wolfgang; and Gocht, Paul G., 4,678,484, Cl. 55-112.000.

Gochtief Ag Vorm. Gebr. Helfmann: *See—*

Hentschel, Volker, 4,645,378, Cl. 405-146.000.

Gockel, Bernhard: *See—*

Schuster, Hans K.; Heins, Jens-Peter; Gockel, Bernhard; and Schmidt, Holger, 4,672,841, Cl. 73-38.000.

Schuster, Hans K.; Heins, Jens-Peter; Gockel, Bernhard; and Schmidt, Holger, 4,676,091, Cl. 73-38.000.

Gockel, Gary L.: *See—*

DeSousa, Daniel A.; Gockel, Gary L.; D'Innocente, Ralph; and Jacuzzi, Roy A., 4,637,873, Cl. 210-169.000.

Gockel, Harald; Thewalt, Reiner; and Giering, Wilfried, to Lucas Industries Public Limited Company. Adjustable brake [illegible]or, especially for vehicle drum brakes. 4,688,661, 8-25-87, [illegible]-196.00D.

Gockel, Karl-Heinz; and Mostofizadeh-Ghalamfarsa, Chapar, [illegible] Krupp Gesellschaft mit Beschrankter Haftung. Method and [illegible]tus for converting low temperature heat into useful heat. 4,7[illegible]5, 10-27-87, Cl. 62-101.000.

Gockley, Glenn E.; and Shaffer, Michael D., to Cooper Industries. Tire chain. 4,660,611, 4-28-87, Cl. 152-243.000.

Goczalk, Robert W.: *See—*

Beyerbach, Daniel M.; Scott, William L.; and Goczalk, Robert W., 4,686,458, Cl. 324-83.00D.

Mollett, Larry R.; and Goczalk, Robert W., 4,691,173, Cl. 330-144.000.

Gocze, Thomas E. Portable collapsible tank for storing liquid. 4,660,594, 4-28-87, Cl. 137-375.000.

Goda, Mamoru, to Coney Onkyo Company, Ltd. Infrared-ray sensitive alarm device built into electronic equipment. 4,646,071, 2-24-87, Cl. 340-693.000.

Godal, Egil O. Method and apparatus for reducing the response time of remotely controlled, hydraulic control systems. 4,687,014, 8-18-87, Cl. 137-14.000.

Godar, Joseph L., to American Can Company. Forming lubricant fo coated metal container and method of making the same. 4,695,4 9-22-87, Cl. 428-35.000.

Godard, Dominique, to International Business Machines Corporatio Method and device for measuring phase jitter on a transmissio channel. 4,654,861, 3-31-87, Cl. 375-10.000.

Godard, Jean-Henri; Ometz, Pierre; and Labrador, Jacques, to Socie Nationale Industrielle et Aerospatiale; and Sanofi. Apparatus illuminating liquid in a container for control purposes. 4,647,1 3-3-87, Cl. 350-574.000.

Godbarsen, Robert: *See—*

Stevens, Edward P.; and Godbarsen, Robert, 4,650,299, 350-626.000.

Godbeer, Barrie C. Dewatering apparatus. 4,671,877, 6-9-87, 210-409.000.

Godbersen, Byron L. Boat trailer. 4,697,976, 10-6-87, Cl. 414-559.0

Godbold, Thomas M.; and Baker, William R., to Vanderbilt Univers Method of removing pyritic sulfur from coal. 4,681,598, 7-21-87, 44-1.0SR.

Goddard, Carl J., to Pfizer Inc. Chlorination of 2-methoxynicoti acid. 4,716,231, 12-29-87, Cl. 546-298.000.

Goddard, Don: *See—*

Chan, Albert; Fitzpatrick, Mark; Goddard, Don; Bosnyak, Rob J.; and Tsui, Cyrus, 4,701,695, Cl. 324-510.000.

Goddard, Donald G.: *See—*

Vasseghi, Nader; Goddard, Donald G.; and Eccles, Robert 4,678,940, Cl. 307-446.000.

Goddard, Errol D., to Union Carbide Corporation. Foamable compo tions and processes for use thereof. 4,683,004, 7-28-87, 106-170.000.

Goddard, Errol D.; Haack, John L.; and Leung, Pak S., to First Bra Corporation. Oil-in-alcohol microemulsions in antifreeze. 4,704,2 11-3-87, Cl. 252-75.000.

Goddard, Errol D.: *See—*

Brode, George L., II; Kreeger, Russell L.; Goddard, Errol Merritt, Frederick M., II; and Braun, David B., 4,663,159, 424-70.000.

Goddard, James E.: *See—*

Jewell, Arnold W., 4,671,005, Cl. 42-69.020.

Goddard, John: *See—*

Bridges, Stuart A.; and Goddard, John, 4,678,113, Cl. 228-160.0

Goddard, John B., to U.S. Vanadium Corporation. Alkaline leaching vanadium bearing residues. 4,640,823, 2-3-87, Cl. 423-68.000.

Goddard, John B.: *See—*

Hansen, Donald J.; Goddard, John B.; and Malacarne, Oreste 4,666,512, Cl. 75-101.00R.

Godde, Rainer. Trestle ladder. 4,676,342, 6-30-87, Cl. 182-201.000.

Godderidge, Volker, to GSR Sandregenerierungsgesellschaft mb Process and apparatus for reclaiming foundry scrap sands. 4,700,7 10-20-87, Cl. 164-5.000.

Godding, Patrick N.: *See—*

Nelson, Gary A.; Godding, Patrick N.; Schumaker, Richard Walter, Keith D.; Marrone, Edward S.; Gates, Stillman Rigsbee, Everett O., III; and Teener, Michael D., 4,679,191, 370-84.000.

Godec, Richard D.: *See—*

Blades, Frederick K.; and Godec, Richard D., 4,666,860, 436-146.000.

Godecke Aktiengesellschaft: *See—*

Kleinschroth, Jorgen; Satzinger, Gerhard; Mannhardt, Karl; H tenstein, Johannes; Osswald, Hartmut; Weinheimer, Gonter; Fritschi, Edgar, 4,681,882, Cl. 514-258.000.

Kleinschroth, Jurgen; Mannhardt, Karl; Hartenstein, Johann Osswald, Hartmut; and Wagner, Bernd, 4,681,881, 514-258.000.

Kleinschroth, Jurgen; Mannhardt, Karl; Hartenstein, Johann Osswald, Hartmut; and Wagner, Bernd, 4,681,885, 514-258.000.

Satzinger, Gerhard; Hartenstein, Johannes; Mannhardt, K Kleinschroth, Jurgen; Herrmann, Manfred; Fritschi, Edg Tauschel, Horst-Dietmar; Wagner, Bernd; and Wolf, Gun 4,698,341, Cl. 514-230.000.

Godesa, Ludvik: *See—*

Bohnen, Peter; Godesa, Ludvik; Kugler, Reinhard; and Marqua Ulrich, 4,703,137, Cl. 200-50.0AA.

Godfrey, Craig W.: *See—*

Gano, John C.; Schwendemann, Kenneth L.; Noack, Timothy and Godfrey, Craig W., 4,702,320, Cl. 166-343.000.

Godfrey, Dwaine A.: *See—*

Charbonneau, Arthur G.; Godfrey, Dwaine A.; McNennamy, J A.; and Nafziger, Steven, 4,712,071, Cl. 324-415.000.

McNennamy, John A.; Nafziger, Steven; Charbonneau, Arthur and Godfrey, Dwaine A., 4,693,113, Cl. 73-168.000.

Godfrey, Jerry W. Athletic padding. 4,642,814, 2-17-87, Cl. 2-2.000

Godfrey, John C., to Godfrey Science & Design, Inc. Flavor of supplements for oral use. 4,684,528, 8-4-87, Cl. 426-74.000.

Godfrey, John J.: *See—*

Ehrig, Raymond J.; and Godfrey, John J., 4,634,745, 526-87.000.

Godfrey, Jollie D., Jr.; Gordon, Eric M.; and Delaney, Norma G., t R. Squibb & Sons, Inc. Amino thiol peptides. 4,636,560, 1-13-87, 530-331.000.

Godfrey, Jollie D., Jr.: *See—*

Gordon, Eric M.; Godfrey, Jollie D., Jr.; and Delaney, Norma 4,714,757, Cl. 530-329.000.

Godfrey Science & Design, Inc.: *See—*

Godfrey, John C., 4,684,528, Cl. 426-74.000.

Godfrin, Jean-Philippe; Landrevie, Bernard; and Escache, Gerard, to Societe Nationale des Poudres et Explosifs. Igniter intended for gas-generating charges in shells. 4,691,633, 9-8-87, Cl. 102-202.000.

Godijn, Willem, to Research Instituut Sesto B.V. Stove for combusting both liquid and solid fuels. 4,662,351, 5-5-87, Cl. 126-111.000.

Godijn, Willem, to Electrolux S.a.r.l. Pot burner for liquid fuel. 4,674,974, 6-23-87, Cl. 431-337.000.

Goding, David J.; and Ramos, Remigio R., to General Motors Corporation. Railway truck with improved steering linkage, detachable suspension and traction motor mounted brake. 4,679,506, 7-14-87, Cl. 105-136.000.

Godlewski, Edward S. Self-contained serially arranged plural section conveyor. 4,666,140, 5-19-87, Cl. 271-35.000.

Godlewski, Edward S. Stack-supporting bottom feed conveyor. 4,715,593, 12-29-87, Cl. 271-10.000.

Godlewski, Robert E., to Union Carbide Corporation. Integral additives and methods for making filled thermoplastics. 4,703,082, 10-27-87, Cl. 524-731.000.

Godley, Andrew R.: *See—*

Linton, John D.; Evans, Michael W.; and Godley, Andrew R., 4,634,667, Cl. 435-101.000.

Godo Steel, Ltd.: *See—*

Takai, Kiyoshi; and Kaseya, Akinori, 4,690,327, Cl. 239-226.000.

Takai, Kiyoshi; and Iwasaki, Kiyoshi, 4,692,113, Cl. 432-72.000.

Godshall, Mary Ann: *See—*

Weiss, Louis C.; Thibodeaux, Devron P.; and Godshall, Mary Ann, 4,680,106, Cl. 209-1.000.

Godsoe, Donald E., Jr.: *See—*

Godsoe, Donald E., Sr.; and Godsoe, Donald E., Jr., 4,705,136, Cl. 180-277.000.

Godsoe, Donald E., Sr.; and Godsoe, Donald E., Jr. Motor vehicle safety system. 4,705,136, 11-10-87, Cl. 180-277.000.

Godsudarstvenny Nauchno Tssledovatelsky I Protektny Institut: *See—*

Gudymov, Ernest; Fedotov, Vasilij; Semenov, Vladimir; Rodinov, Boris; Berger, Friedrich; Wenzel, Winfried; Peise, Helmut; and Schingnitz, Manfred, 4,707,163, Cl. 48-73.000.

Godtfredsen, Sven E.; Ottesen, Martin; and Larsen, Bent A., to De Forenede Bryggerier A/S. Production of fermented alcoholic products having a low diacetyl content. 4,708,875, 11-24-87, Cl. 426-12.000.

Godwin, Jimmy D.: *See—*

Connell, G. A. Neville; and Godwin, Jimmy D., 4,638,470, Cl. 369-13.000.

Godwin, Michael W.: *See—*

Hamilton, James M.; Woods, Lonnie K.; and Godwin, Michael W., 4,651,838, Cl. 177-209.000.

Godwin, Oliver W., Jr. Means for producing a water splash shield for commodes, urinals or the like. 4,709,426, 12-1-87, Cl. 4-300.300.

Godwin, W. Lee. Apparatus for aiding the anchoring of a boat. 4,657,517, 4-14-87, Cl. 441-1.000.

Goebel, Charles C.: *See—*

Schwarz, Alexander; Kalb, Charles E.; and Goebel, Charles C., 4,715,431, Cl. 105-110.000.

Goebel, Eickhart, to Gebr. Hofmann GmbH & Co. KG Maschinenfabrik. Tire-mounting apparatus. 4,694,875, 9-22-87, Cl. 157-1.240.

Goebel, Franz; Harris, Peter B.; Boyle, Gerard H.; and Freeman, Roger K., to GTE Government Systems Corporation. Electrochemical cell having coupling members with radial channels. 4,672,011, 6-9-87, Cl. 429-158.000.

Goebel, Franz; and Batson, David C., to GTE Government Systems Corporation. Electrochemical cell with container support. 4,684,588, 8-4-87, Cl. 429-115.000.

Goebel, Franz: *See—*

Batson, David C.; and Goebel, Franz, 4,684,587, Cl. 429-115.000.

Harris, Peter B.; Goebel, Franz; Boyle, Gerard H.; and McHugh, William T., 4,668,592, Cl. 429-116.000.

Haskins, Timothy B.; Goebel, Franz; Batson, David C.; and Zuffante, Charles R., 4,684,586, Cl. 429-115.000.

Goebel, Konrad; and Becker, Bernard, to Kraftwerk Union Aktiengesellschaft. Combined gas-turbine plant preceded by a coal gasification plant. 4,651,519, 3-24-87, Cl. 60-39.120.

Goebel, Konrad; Muller, Rainer; and Schiffers, Ulrich, to Kraftwerk Union Aktiengesellschaft. Medium-load power generating station with an integrated coal gasification plant. 4,676,063, 6-30-87, Cl. 60-39.070.

Goebel, Konrad; and Schiffers, Ulrich, to Kraftwerk Union Aktiengesellschaft. Clean-gas continuous-flow intermediate storage or accumulator plant. 4,682,620, 7-28-87, Cl. 137-110.000.

Goebel, Ronald G. Plug safe. 4,705,335, 11-10-87, Cl. 439-133.000.

Goebel, William K.: *See—*

Myers, Drewfus Y., Jr.; Alexandrovich, Peter S.; Pearce, Glenn T.; Santilli, Domenic; Sreekumar, Chandrasekha; Berwick, Martin A.; Upson, Donald A.; and Goebel, William K., 4,708,923, Cl. 430-112.000.

Goedbloed, Willem: *See—*

Dieleman, Pieter J.; Goedbloed, Willem; De Jong, Roelof P.; and Oosterwijk, Theodorus M., 4,706,051, Cl. 333-212.000.

Goeddel, David V.; and Heyneker, Herbert L., to Genentech, Inc. Plasmid capable of expressing human growth hormone. 4,634,677, 1-6-87, Cl. 435-317.000.

Goeddel, David V.; and Heyneker, Herbert L., to Genentech, Inc. Methionyl human growth hormone. 4,658,021, 4-14-87, Cl. 530-399.000.

Goeddel, David V., to Genentech, Inc. Hybrid human leukocyte interferons. 4,678,751, 7-7-87, Cl. 435-243.000.

Goedderz, Stanley J., Sr. Removable culvert grate. 4,713,179, 12-15-87, Cl. 210-747.000.

Goede, Simon, to Zellweger Uster Ltd. Stopping mechanism for a gripper shuttle loom. 4,673,003, 6-16-87, Cl. 139-342.000.

Goedecke, Wolf-Dieter; Schwenzer, Reinhard; and Huber, Ralf, to GAS Gesellschaft fur Antriebs- und Steuerungs-technik mbH & Co. KG. Linear drive. 4,656,881, 4-14-87, Cl. 74-110.000.

Goedecke, Wolf-Dieter: *See—*

Koch, Siegfried; Adams, Jurgen; and Goedecke, Wolf-Dieter, 4,646,870, Cl. 180-336.000.

Goedemans, Wilhelmus T., to Mallinckrodt, Inc. Sterile radioactive indium-containing aqueous solution. 4,705,678, 11-10-87, Cl. 424-1.100.

Goeden, Gary V.: *See—*

Budge, John R.; Compton, Senja V.; Goeden, Gary V.; and Mazanec, Terry J., 4,665,042, Cl. 502-61.000.

Goedhart, Cornelis, to Esmil B.V. Method of cleaning contaminated soil. 4,648,332, 3-10-87, Cl. 110-346.000.

Goedicke, Siegfried: *See—*

Albeck, Bernhard; and Goedicke, Siegfried, 4,711,019, Cl. 29-609.000.

Goedken, Kenneth D. Auto-wireless shutter release control. 4,707,127, 11-17-87, Cl. 354-266.000.

Goeft, Manfred: *See—*

Ehrlinger, Friedrich; Goeft, Manfred; and Goller, Helmut, 4,667,527, Cl. 74-411.500.

Goegelman, Robert T.; Inamine, Edward S.; and White, Raymond F., to Merck & Co., Inc. Avermectin bioconversion products. 4,666,937, 5-19-87, Cl. 514-450.000.

Goegelman, Robert T.; White, Raymond F.; and Inamine, Edward S., to Merck & Co., Inc. Novel averonectin fermentation product of a microorganism with anthelmintic activity. 4,668,696, 5-26-87, Cl. 514-450.000.

Goehle, Rolf; Schmitt, Volker; Bruckner, Werner; and Greefe, Klaus, to Brown, Boveri & CIE AG. Magnetic tripping device. 4,698,609, 10-6-87, Cl. 335-255.000.

Goehner, Robert D.; Glover, Norman I.; and Hensley, Donald G., to Simmonds Precision. Electro-impulse de-icing system for aircraft. 4,678,144, 7-7-87, Cl. 244-134.00R.

Goehst, George: *See—*

Smith, Donald; and Goehst, George, 4,688,965, Cl. 404-75.000.

Goeke, Alan G., to Fort Lock Corporation. Multiple operation switch lock. 4,634,822, 1-6-87, Cl. 200-43.080.

Goeke, George L.: *See—*

Wagner, Burkhard E.; Karol, Frederick J.; Goeke, George L.; Jorgensen, Robert J.; and Friis, Nils, 4,684,703, Cl. 526-88.000.

Goeke, Ulrich: *See—*

Burba, Christian; Goeke, Ulrich; and Esper, Norbert, 4,673,710, Cl. 525-111.500.

Goel, Anil B., to Ashland Oil, Inc. Polymer from bicyclic amide acetal-epoxide monomer and dicarboxylic acid anhydride. 4,636,558, 1-13-87, Cl. 528-363.000.

Goel, Anil B., to Ashland Oil, Inc. Poly (ether amide) composition from reaction of bis bicyclic amide acetal with bis- or poly-phenolic material. 4,639,505, 1-27-87, Cl. 528-211.000.

Goel, Anil B.; Tufts, Timothy A.; and Blackburn, Peggy A., to Ashland Oil, Inc. Oxazoline/polyol/polyisocyanate polymers and process. 4,640,969, 2-3-87, Cl. 528-73.000.

Goel, Anil B.; and DeLong, Teresa A., to Ashland Oil, Inc. Reaction of bis-oxazoline with polycarboxylic acid catalyzed by alkali or alkaline earth metal cationic complex. 4,644,052, 2-17-87, Cl. 528-363.000.

Goel, Anil B.; and Richards, Harvey J., to Ashland Oil, Inc. Bicyclic amide acetals are prepared from organic nitriles and dialkanol amines at below about 140° C. and product is isolated by solvent extraction. 4,652,655, 3-24-87, Cl. 548-217.000.

Goel, Anil B., to Ashland Oil, Inc. Homopolymerization of bicyclic amide acetal. 4,654,416, 3-31-87, Cl. 528-403.000.

Goel, Anil B.; and Grimm, Robert A. Manufacture of phenyl esters. 4,655,974, 4-7-87, Cl. 260-410.000.

Goel, Anil B.; Grimm, Robert A.; Blackburn, Peggy A.; and Richards, Harvey J., to Ashland Oil, Inc. Surface modification of inorganic fillers by treatment with bicyclic amide acetals. 4,657,815, 4-14-87, Cl. 428-403.000.

Goel, Anil B., to Ashland Oil, Inc. Triols from bicyclic amide acetals and cyanuric acid and polyurethanes therefrom. 4,657,939, 4-14-87, Cl. 521-163.000.

Goel, Anil B., to Ashland Oil, Inc. Thermosetting resinous molding compositions for preparing polyurethane containing a phosphorous polyol and an esterol. 4,657,968, 4-14-87, Cl. 525-28.000.

Goel, Anil B., to Ashland Oil, Inc. Polymerization of oxazoline using alkali or alkaline earth metal complex catalyst. 4,658,011, 4-14-87, Cl. 528-409.000.

Goel, Anil B., to Ashland Oil, Inc. Sag resistant two-component epoxy structural adhesive. 4,661,539, 4-28-87, Cl. 523-400.000.

Goel, Anil B., to Ashland Oil, Inc. Thermoset polymers from polyepoxides and polycarboxylic acids containing catalytic amounts of alkali and alkaline earth metal cationic complexes. 4,661,562, 4-28-87, Cl. 525-122.000.

Goel, Anil B., to Ashland Oil, Inc. Reaction of bicyclic amide acetal with imide. 4,661,583, 4-28-87, Cl. 528-322.000.

Goel, Anil B., to Ashland Oil, Inc. Manufacture of 2-oxazolines, 2-oxazines, 2-imidazolines and 2-imidazines. 4,661,600, 4-28-87, Cl. 548-217.000.

Goel, Anil B., to Ashland Oil, Inc. Bicyclic amide acetal modified catalysts for polyurethane polymer formation. 4,663,302, 5-5-87, Cl. 502-167.000.

Goel, Anil B., to Ashland Oil, Inc. Preparation of hydroxy alkyl amide thio ether compounds from bicyclic amide acetal and thiol. 4,665,229, 5-12-87, Cl. 564-154.000.

Goel, Anil B., to Ashland Oil, Inc. Reaction products of polyols with bicyclic amide acetals and their application in polyurethane polymers. 4,665,230, 5-12-87, Cl. 564-224.000.

Goel, Anil B., to Ashland Oil, Inc. Thermoset polymeric composition from poly-oxazoline and alkenyl phosphonic acid. 4,675,371, 6-23-87, Cl. 526-260.000.

Goel, Anil B., to Ashland Oil, Inc. Pressure sensitive adhesive reaction product of bicyclic amide acetal and acrylate interpolymer. 4,677,167, 6-30-87, Cl. 525-375.000.

Goel, Anil B., to Ashland Oil, Inc. Rapid setting polymers from bicyclic amide acetals/polyols/polyisocyanates. 4,681,926, 7-21-87, Cl. 528-48.000.

Goel, Anil B., to Ashland Oil, Inc. Removal of small amounts of water from moisture containing carboxylic acids, alcohols, or phenols by contacting with a tetrasubstituted bicyclic amide acetal. 4,683,077, 7-28-87, Cl. 252-194.000.

Goel, Anil B., to Ashland Oil, Inc. Organophosphite accelerators for epoxide curing. 4,683,281, 7-28-87, Cl. 528-89.000.

Goel, Anil B., to Ashland Oil, Inc. Novel boron trifluoride-poly (alkylene oxide) amine catalysts for curing epoxy resins. 4,683,282, 7-28-87, Cl. 528-91.000.

Goel, Anil B., to Ashland Oil, Inc. Latent accelerators for epoxide curing. 4,683,283, 7-28-87, Cl. 528-93.000.

Goel, Anil B., to Ashland Oil, Inc. Oxime carbamate accelerators for curing polyepoxides. 4,683,284, 7-28-87, Cl. 528-93.000.

Goel, Anil B., to Ashland Oil, Inc. Sag resistant, high performance epoxy structural adhesives. 4,695,605, 9-22-87, Cl. 525-109.000.

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  Skaria, Arankathu; and Goeldi, Heinrich, 4,693,878, Cl. 423-334.000.

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  Marshall, Peter G.; and Goerke, Ulrich B., 4,675,769, Cl. 361-1.000.

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  Widemann, Friedrich; and Goerlich, Dieter, 4,678,431, C 431-328.000.

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  Schuette, Wilhelm; McKee, Graham Edmund; Hilt, Albrech Heinz, Gerhard; and Goerrissen, Heiner, 4,639,488, C 524-456.000.

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Goertz, Arnold E.: *See—*
  Anderson, J. Dale; McMillen, Kenneth R.; and Goertz, Arnold E 4,663,922, Cl. 56-15.600.
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  Anderson, Karen L.; Mitchell, Joan L.; Pennebaker, William B and Goertzel, Gerald, 4,646,356, Cl. 382-56.000.

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  Herscher, Lee R.; and Goertzen, Gerold G., 4,706,761, C 172-42.000.

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  Stengl, Reinhard; Goesele, Ulrich; and Fellinger, Christ 4,672,738, Cl. 29-576.00B.

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Goetchius, Ronald J.: *See—*
  Collins, Michael J.; and Goetchius, Ronald J., 4,651,285, C 364-496.000.

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Goetter, Erwin H.: *See—*
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Goettl, Adam D. Water distribution trough for evaporative cooler pa 4,657,709, 4-14-87, Cl. 261-3.000.

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  Seelbach, Christian A.; Ingle, William M.; and Goetz, Carl A 4,699,805, Cl. 437-245.000.

Goetz, Charles W.: *See—*
  Freeman, Richard B.; Goetz, Charles W.; and Eggert, Walter S Jr., 4,712,710, Cl. 220-414.000.

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  Feuchter, Wolfgang; Goetz, Dieter; and Schmid, Friedber 4,703,616, Cl. 57-105.000.
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  Tang, David Y.; Cotter, Byron R.; and Goetz, Fredrick J. 4,704,483, Cl. 568-937.000.

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Goetz, Harold E. Paper roll holder with tension arm. 4,690,343, 9-1-87, Cl. 242-55.300.

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  Lehmann, Klaus; Dreher, Dieter; and Goetz, Harry, 4,705,695, Cl 427-3.000.

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  Fuchs, Hans P.; and Goetz, Jurgen R., 4,694,278, Cl. 340-347.0DD

Goetz, Klaus: *See—*
  Schaeffer, Norbert; Bettinger, Gunter; Goetz, Klaus; Pfefferkorn Dietmar; Burkle, Ottmar; Schmidts, Kurt; Schneider, Pierre Wagner, Werner; Wietholter, Dieter; Dietze, Herbert; and Andr iessen, Wilhelmus, 4,709,288, Cl. 360-130.210.

- Goetz, Michael A.: *See—*
  - Houck, David R.; Inamine, Edward S.; and Goetz, Michael A., 4,696,925, Cl. 514-219.000.
  - Monaghan, Richard L.; Goetz, Michael A.; and Chang, Raymond S., 4,695,544, Cl. 435-119.000.
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  - Keil, Michael; Jahn, Dieter; Becker, Rainer; Goetz, Norbert; Wuerzer, Bruno; and Meyer, Norbert, 4,659,367, Cl. 91-90.000.
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  - Seufert, Walter; Goetz, Norbert; Becker, Rainer; and Schwendemann, Volker, 4,658,071, Cl. 568-903.000.
- Goetz, Willi, to Valmet-Strecker GmbH. Device for automatically splicing a web of material in a web feeding apparatus. 4,705,226, 11-10-87, Cl. 242-56.00R.
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  - Baasner, Ernst; Lonne, Klaus; and Majewski, Klaus-Peter, 4,659,091, Cl. 277-1.000.
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  - Brauers, Bert; and Morsbach, Martin, 4,695,064, Cl. 277-139.000.
  - Deuring, Hans, 4,656,978, Cl. 123-90.550.
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  - Feller, Otto; Brocksieper, Manfred; and Luckger, Rolf, 4,679,472, Cl. 82-19.000.
  - Johnen, Rolf; Kirch, Hans; and Otto, Volkmar, 4,696,657, Cl. 464-93.000.
  - Zerfass, Hans-Rainer; Majewski, Klaus-Peter; and Giesen, Franz-Josef, 4,635,948, Cl. 277-235.0GB.
  - Zerfass, Hans-Rainer; and Giesen, Franz-Josef, 4,681,800, Cl. 428-283.000.
- Goetzelman, Alan: *See—*
  - Switall, Thomas G.; Schnefges, Michael; and Goetzelman, Alan, 4,649,818, Cl. 101-147.000.
- Goff, Charles W.; and Goff, Charles W., Jr. Machine gun receiver top strap. 4,638,716, 1-27-87, Cl. 89-199.000.
- Goff, Charles W.; and Goff, Charles W., Jr. Receiver and barrel coupling. 4,648,191, 3-10-87, Cl. 42-75.020.
- Goff, Charles W., Jr.: *See—*
  - Goff, Charles W.; and Goff, Charles W., Jr., 4,638,716, Cl. 89-199.000.
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- Goff, Christopher G.: *See—*
  - Botstein, David; Davis, Ronald W.; Fink, Gerald R.; Taunton-Rigby, Alison; Knowlton, Robert G.; Mao, Jen-i; Moir, Donald T.; and Goff, Christopher G., 4,661,454, Cl. 435-256.000.
- Goff, Claude W., Sr.: *See—*
  - Ross, Ron S., Sr.; and Goff, Claude W., Sr., 4,712,327, Cl. 43-57.000.
- Goff, David R.: *See—*
  - Fasching, George E.; and Goff, David R., 4,667,097, Cl. 250-231.00P.
- Goff, Elizabeth S.: *See—*
  - Elmore, Jimmy D.; and Goff, Elizabeth S., 4,678,843, Cl. 525-378.000.
- Goff, Jerry K.; and Chizever, Gary E., to Performance Controls, Inc. Method and apparatus for determining shaft position and for providing commutation signals. 4,697,125, 9-29-87, Cl. 318-254.000.
- Goff, John G.; and Johnson, George W., Jr. Apparatus including distance sensors mounted on rotating shaft for measuring distances inside a turbine. 4,659,988, 4-21-87, Cl. 324-207.000.
- Goff, Kathy O.; and Johnsen, Kenneth, to C. R. Bard, Inc. Flexible penile prosthesis. 4,665,902, 5-19-87, Cl. 128-79.000.
- Goff, Ralph D.: *See—*
  - Aldridge, Robert E.; Elloway, Russell; Fritz, William O.; Goff, Ralph D.; and Herrera, Michael J., 4,636,140, Cl. 414-786.000.
  - Aldridge, Robert E.; Elloway, Russell; Fritz, William O.; Goff, Ralph D.; and Herrera, Michael J., 4,684,863, Cl. 318-599.000.
  - Aldridge, Robert E.; Elloway, Russell; Fritz, William O.; Goff, Ralph D.; and Herrera, Michael J., 4,692,115, Cl. 432-242.000.
- Goffi, Carlo P.; and Clark-Goffi, Deborah E. Protective covering for lightweight vehicle. 4,715,646, 12-29-87, Cl. 296-136.000.
- Goffreda, Frank: *See—*
  - Morris, Dennis; and Goffreda, Frank, 4,687,430, Cl. 425-133.100.
- Goforth, William P. Multi-event notification system for monitoring critical pressure points on persons with diminished sensation of the feet. 4,647,918, 3-3-87, Cl. 340-573.000.
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  - Saitoh, Michihiro; Gogami, Takatoshi; and Osada, Toshiyuki, 4,692,799, Cl. 358-106.000.
- Gogarty, Brian J. Quick-bolt locking system. 4,638,994, 1-27-87, Cl. 272-122.000.
- Goge GmbH: *See—*
  - Brenner, Heinz; Husch, Bruno; and Gollub, Erwin, 4,671,694, Cl. 403-226.000.
- Gogins, Katharina A. Z.; and Smith, David J., to Pillsbury Company, The. Frozen cauliflower product and treatment method. 4,647,462, 3-3-87, Cl. 426-270.000.
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- Gogniat, Paul, to Montres Rado S.A. Watch case. 4,637,734, 1-20-87, Cl. 368-294.000.
- Gogniat, Paul, to Montres Rado S.A. Electronic watch with operating controls in the back cover of the case. 4,681,461, 7-21-87, Cl. 368-69.000.
- Gogol, Carl A., to Inficon Leybold-Heraeus, Inc. Wavelength specific detection system for measuring the partial pressure of a gas excited by an electron beam. 4,692,630, 9-8-87, Cl. 250-573.000.
- Gogolewski, Sylwester; and Pennings, Albert J., to Medtronic, Inc. Biocompatible, antithrombogenic materials suitable for reconstructive surgery. 4,661,530, 4-28-87, Cl. 521-137.000.
- Goguen, Peter J., to Jones and Vining, Incorporated. Phosphorescent polymer-containing compositions and articles made therefrom. 4,640,797, 2-3-87, Cl. 252-301.360.
- Goh, Atsushi; Nakamura, Mami; Endo, Keiji; and Hikido, Mitsuru, to Mitsubishi Petrochemical Co., Ltd. 2-chloro-N-(4,6-dimethoxy-5-pyrimidinyl)-N-[1,(1-pyrazolyl)ethyl]acetamide, herbicidal composition comprising said compound, and method of controlling weeds using said compound. 4,654,074, 3-31-87, Cl. 71-92.000.
- Goh, Djing-San, to Kob-I-Noor Rapidograph, Inc. Tubular writing pen tip with adjustment means. 4,662,769, 5-5-87, Cl. 401-259.000.
- Gohara, Shinobu: *See—*
  - Takemura, Tetsuo; and Gohara, Shinobu, 4,680,752, Cl. 370-63.000.
- Gohara, Wadie F., to Babcock & Wilcox Company, The. Fluidized sand expansion joint. 4,648,353, 3-10-87, Cl. 122-4.00D.
- Gohde, Lewis J.: *See—*
  - Vaughn, Steven T.; Bergholz, Eugene W.; Celek, John E.; Gohde, Lewis J.; and Peters, Michael A., 4,647,986, Cl. 360-35.100.
- Gohdo, Shigeru, to Nippon Kokan Kabushiki Kaisha. Method of adding propulsive force to ice breaker. 4,643,121, 2-17-87, Cl. 114-40.000.
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  - Ohta, Harutaka; Miyamoto, Kazuchiyo; Terayama, Arataro; Maruhashi, Seiji; and Gohdo, Shigeru, 4,708,082, Cl. 114-230.000.
- Gohin, Christian; and Leblond, Henri, to Badin Crouzet. Acoustic gyrometer. 4,672,848, 6-16-87, Cl. 73-505.000.
- Gohl, Hans-Dieter: *See—*
  - Nonnenmann, Manfred; Hauser, Kurt; and Gohl, Hans-Dieter, 4,655,686, Cl. 416-189.000.
- Gohler, Peter; Mangler, Rolf; Schingnitz, Manfred; Seidel, Wolfgang; Berger, Friedrich; Gudymov, Ernest; Semenov, Vladimir; Fedotov, Vasilij; and Gamburg, David, to Brennstoffinstitut Freiberg. Apparatus for gasifying pulverized coal. 4,710,202, 12-1-87, Cl. 48-73.000.
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- Gohr, Robert A., to Kempsmith Machine Company. Slitter tape applicator. 4,684,433, 8-4-87, Cl. 156-517.000.
- Goi, Hiroshi: *See—*
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- Goi, Masami: *See—*
  - Watanabe, Yoshiaki; Morimoto, Shigeo; Goi, Masami; Mitsukuchi, Morihiro; Adachi, Takashi; Nakagami, Jozi; Asaka, Toshifumi; Eguchi, Tadashi; and Sota, Kaoru, 4,672,109, Cl. 536-7.200.
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- Goida, Thomas M.: *See—*
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- Goikhman, Mikhail S.: *See—*
  - Savitsky, Evgeny M.; Goikhman, Mikhail S.; Khudyk, Petr M.; Chepkasov, Valery V.; Sulyagin, Valentin V.; Polyakova, Viktoria P.; Shatinsky, Viktor F.; Gorina, Nelli B.; and Rudkovsky, Evgeny M., 4,654,237, Cl. 427-431.000.
- Going, Walter S., III, to Camco, Incorporated. Combination electrically operated solenoid safety valve and measuring sensor. 4,649,993, 3-17-87, Cl. 166-65.100.
- Goins, Dixie E.; Holmes, Silas W.; and Burt, Edward A., to Ethyl Corporation. Heterogeneous catalyst process. 4,714,691, 12-22-87, Cl. 502-152.000.
- Goins, Joan. Back brace having strap with widened middle portion for pad. 4,640,269, 2-3-87, Cl. 128-78.000.
- Goins, Neal R.: *See—*
  - Dellinger, J. A.; Goins, Neal R.; and Reilly, Theresa A., 4,686,657, Cl. 367-75.000.
- Gojo, Tomomi; Yagi, Yoshio; and Izumi, Tsunetada, to Ricoh Company, Ltd. Patterned line generator for a data processing device. 4,695,834, 9-22-87, Cl. 340-734.000.
- Gokcen, Cem M.: *See—*
  - Turoff, Robert; Gokcen, Cem M.; and Zdeb, Brian, 4,655,355, Cl. 215-32.000.
- Goke, Louis R.; and Grimes, Gary J., to American Telephone and Telegraph Company, AT&T Information Systems Inc. Combined circuit and packet switching system. 4,698,802, 10-6-87, Cl. 370-60.000.

Gokel, George W.; and Gatto, Vincent J., to University of Maryland. Process for the direct preparation of N,N-disubstituted derivatives for 4,13-diaza-18-crown-6. 4,687,844, 8-18-87, Cl. 540-467.000.

Gokita, Masami, to Kabushiki Kaisha Toshiba. Picture image forming apparatus. 4,651,222, 3-17-87, Cl. 358-264.000.

Gokita, Masami, to Kabushiki Kaisha Toshiba. Thermal transfer color image forming apparatus with image color and image color density control functions. 4,668,978, 5-26-87, Cl. 358-78.000.

Goko, Hiroshi: *See*—

Onoda, Yoshimitsu; and Goko, Hiroshi, 4,690,251, Cl. 187-107.000.

Gokyu, Toshio: *See*—

Takeda, Tamio; Gokyu, Toshio; Mizutani, Yuji; and Nakashima, Jun, 4,678,954, Cl. 310-156.000.

Golay, Gilbert: *See*—

Rutsch, Hubert; Golay, Gilbert; and Muhlemann, Daniele, 4,633,858, Cl. 128-59.000.

Golay, Kenneth W.; and Bryan, Bobby H. Cylinder transporting stabilizer. 4,685,846, 8-11-87, Cl. 410-49.000.

Golbeck, Ortwin: *See*—

Guenther, Hans-Juergen; Golbeck, Ortwin; and Nauck, Joachim, 4,702,440, Cl. 244-158.00R.

Golben, Peter M., to Ergenics, Inc. Thermally reversible heat exchange unit and method of using same. 4,687,049, 8-18-87, Cl. 165-1.000.

Golborne, Carlos E., to SpaceLabs, Inc. Radiant beam coordinate detector. 4,652,741, 3-24-87, Cl. 250-221.000.

Golborne, Carlos E., and Moon, James B., to Spacelabs, Inc. Radiant beam coordinate detector system. 4,672,195, 6-9-87, Cl. 250-221.000.

Gold, Arthur, to Carousel Industries, Inc. Cooperating cap, retainer ring and container globe for confection product dispensing machine. 4,667,848, 5-26-87, Cl. 221-155.000.

Gold, Arthur, to Carousel Industries, Inc. Nut dispensing machine. 4,673,111, 6-16-87, Cl. 222-305.000.

Gold Belt Line, Inc., The: *See*—

Ekins, David L., 4,706,675, Cl. 450-114.000.

Gold, David: *See*—

Garcia, Gustavo E.; and Gold, David, 4,672,347, Cl. 336-132.000.

Goldman, Robert N.; and Gold, David, 4,656,473, Cl. 340-825.340.

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Gold, Elijah J.; Babad, Esther; Peer, Lydia; and Chang, Wei K., to Schering Corporation. Preparation of (−)-5-(beta)-1-hydroxy-2-((beta)-1-methyl-3-phenylpropyl)aminoethyl) salicylamide. 4,658,060, 4-14-87, Cl. 564-165.000.

Gold, Harold; and Budzich, Tadeusz. Pressure regulating and on-off valve. 4,667,695, 5-26-87, Cl. 137-486.000.

Gold, Harold; and Budzich, Tadeusz. Hydraulic fuse valve assembly. 4,699,166, 10-13-87, Cl. 137-2.000.

Gold, Henning. Combination pneumatic spring and shock absorbing apparatus. 4,635,909, 1-13-87, Cl. 267-64.210.

Gold, Henning. Spring-loaded damping or shock absorbing apparatus. 4,647,025, 3-3-87, Cl. 267-64.270.

Gold, Henning. Combination pneumatic spring and shock absorbing apparatus. 4,697,797, 10-6-87, Cl. 267-64.240.

Gold, Jeffrey G.; Pande, Gyan S.; and Smith, Kevin, to Cordis Corporation. Preparing guiding catheter. 4,636,346, 1-13-87, Cl. 264-139.000.

Gold, Jeffrey W., to Integrated Environmental Services. Cylinder rupture vessel. 4,690,180, 9-1-87, Cl. 141-51.000.

Gold, Marvin H. Magnetic tapes. 4,652,388, 3-24-87, Cl. 252-62.540.

Gold, Peter N. Force hinge connection for the latching mechanism of a panel truck or van window. 4,638,598, 1-27-87, Cl. 49-394.000.

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Gwon, Seong T., 4,711,410, Cl. 242-201.000.
Kim, Eui D., 4,669,803, Cl. 439-571.000.
Kim, Eui D.; and Choi, Hyun J., 4,716,469, Cl. 358-245.000.
Kim, Kyo S., 4,679,745, Cl. 242-75.400.
Kim, Soo K., 4,683,512, Cl. 360-137.000.
Kim, Young H., 4,709,289, Cl. 360-130.240.
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Lee, Yoon K., 4,660,135, Cl. 363-21.000.
Park, Chan W., 4,649,429, Cl. 358-192.100.
Park, Jong D., 4,690,439, Cl. 292-27.000.
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Kalnin, Ilmar L.; Goldberg, Harris A.; and Breckenridge, George J., Jr., 4,634,546, Cl. 252-506.000.

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Howell, John S., 4,699,807, Cl. 427-140.000.

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Jenkins, Jerry V.; Sloan, Haskell F.; Frenkel, Robert L.; and Zielinski, Albert, 4,707,251, Cl. 209-569.000.

Golden, Arthur. Multi-purpose hand tool. 4,653,356, 3-31-87, Cl. 81-57.140.

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  Ryan, James M.; Golden, Sanford S.; and Sliker, Larry, 4,678,229, Cl. 297-68.000.

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  Winter, Walter W., Gothard, Steven E.; and Drew, John H., 4,697,282, Cl. 379-67.000.

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  Gradinger, J. Gary; Quearry, Robert W., Chalfant, Robert D.; and Wilson, Charles G., 4,644,741, Cl. 57-256.000.
  Wilson, Charles G., 4,679,859, Cl. 300-21.000.

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Golden Valley Microwave Foods Inc.: *See—*
  Cox, David H.; Andreas, David W.; and Watkins, James D., 4,642,434, Cl. 219-10.55E.
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  McKechnie, Thomas S.; and Goldenberg, Jill F., 4,679,900, Cl. 350-126.000.

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Goldenberg, Lior: *See—*
  Magaritz, Mordeckai; Goldenberg, Lior; Mandel, Shmuel; and Amiel, Abraham J., 4,647,259, Cl. 405-270.000.

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  Wallace, Robert S.; Goldey, Ian C.; and Nelson, Terry L., 4,655,425, Cl. 248-311.200.

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Goldfarb, Adolph E. Solar-powered musical ornaments and novelties. 4,702,140, 10-27-87, Cl. 84-1.010.

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  Warner, Arthur W.; and Goldfrank, Bruce, 4,701,661, Cl. 310-360.000.

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Goldhammer, Albert; Schleicher, Hans; Stangenberg, Hartmut; Gasteier, Rolf; and Erlecke, Jens, to Feinwerktechnik Schleicher & Co. Control device for driving e.g. a shredding machine or a similar machine. 4,709,197, 11-24-87, Cl. 318-480.000.

Goldhorn, Bruno; and Stapelfeldt, Rolf, to International Standard Electric Corporation. Mobile radio set. 4,646,344, 2-24-87, Cl. 379-58.000.

Goldin, Morris, to Hughes Helicopters, Inc. Method and apparatus for handling beltless ammunition in a twin-barreled gun. 4,69[illegible],496, 10-6-87, Cl. 89-33.030.

Goldiner, Paul L.: *See—*
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Golding, Victor G.: *See—*
  Barnett, Christopher J.; Dyche, Mark P.; Golding, Victor G.; and Ng, Yat H., 4,653,100, Cl. 381-52.000.

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Goldman, Abraham: *See—*
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  Roos, Andre; Dutertre-Laduree, Daniel; Goldman, Max; and Goldman, Alice, 4,698,586, Cl. 324-71.100.

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  Resnick, Semion; and Goldman, Jacob, 4,700,703, Cl. 128-334.00R.

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Goldman, Marvin: *See—*
  Goldman, Jerome; Goldman, Marvin; Phillips, Gerald; and Goldman, Terry, 4,678,568, Cl. 210-169.000.
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  Briguet, Andre ; and Goldman, Maurice, 4,684,890, Cl. 324-309.000.

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Goldman, Max: *See—*
  Roos, Andre; Dutertre-Laduree, Daniel; Goldman, Max; and Goldman, Alice, 4,698,586, Cl. 324-71.100.

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Goldman, Robert N., to Light Signatures, Inc. Operator interactive device verification system. 4,635,054, 1-6-87, Cl. 340-825.340.

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Goldman, Robert N., to Light Signatures, Inc. Verification system for document substance and content. 4,686,527, 8-11-87, Cl. 340-825.340.

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  Katz, Ronald A.; and Goldman, Robert N., 4,651,150, Cl. 340-825.340.

Goldman, Ronald J. Pinch-frame for holding frozen food packets. 4,667,999, 5-26-87, Cl. 294-31.100.

Goldman, Stephen A.: *See—*
  Brandt, Kerryn A.; Goldman, Stephen A.; and Inglin, Thomas A., 4,654,039, Cl. 604-368.000.

Goldman, Stuart O.; and Bogan, Leonard E., to ITT Corporation. Cellular mobile radio subscriber location detection. 4,654,879, 3-31-87, Cl. 455-33.000.

Goldman, Terry: *See—*
Goldman, Jerome; Goldman, Marvin; Phillips, Gerald; and Goldman, Terry, 4,678,568, Cl. 210-169.000.
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Goldmann, Horst; Mayr, Ernst; and Oestreich, Ulrich, to Siemens Aktiengesellschaft. Cable with a friction reducing outside layer. 4,684,214, 8-4-87, Cl. 350-96.230.

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Goldmann, Peter, to U.S. Philips Corporation. System for recording or detecting two marking signals on a record carrier. 4,639,793, 1-27-87, Cl. 360-44.000.

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Gorlitzer, Klaus; Bartke, Ulrich; Goldmann, Siegfried; Schramm, Matthias; Thomas, Gunter; and Gross, Rainer, 4,647,568, Cl. 514-302.000.

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Goldowsky, Michael P., to United States of America, National Aeronautics and Space Administration. Reciprocating linear motor. 4,675,563, 6-23-87, Cl. 310-15.000.

Goldring, Lionel S.: *See—*
Gelo, Mark A.; Hirshberg, Moshe J.; and Goldring, Lionel S., 4,661,236, Cl. 204-420.000.
Ross, James W., Jr.; Goldring, Lionel S.; and Riseman, John H., 4,672,042, Cl. 436-161.000.

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Slusher, Robert B.; Wallace, Robert E.; Goldsborough, John P.; and Voss, Gary C., 4,672,620, Cl. 372-58.000.

Goldsbury, Timothy G.; and Schmidt, Carson T., to NCR Corporation. Error detection and correction system. 4,646,312, 2-24-87, Cl. 371-38.000.

Goldschild, Pierre, to Schlumberger Technology Corporation. Methods and apparatus for subsurface testing of well bore fluids. 4,678,035, 7-7-87, Cl. 166-250.000.

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Frauenfeld, Martin; Goldschmidt, Georg; Huber, Horst; and Mock, Karlheinz, 4,649,987, Cl. 165-5.000.

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Grochowski, Horst; Zurawsky, Dieter; Knoblauch, Karl; Goldschmidt, Klaus; and Schwarte, Jurgen, 4,695,444, Cl. 423-569.000.

Goldsmith, Charles E.: *See—*
Plowman, Keith R.; and Goldsmith, Charles E., 4,659,528, Cl. 264-49.000.

Goldsmith, Claude A.: *See—*
Lavelle, Michael G.; Goldsmith, Claude A.; and Kingsbury, Allin D., 4,642,794, Cl. 364-900.000.

Goldsmith, Eric S.: *See—*
Burke, Timothy M.; Shirley, Thomas F., Jr.; Schorman, Eric R.; and Goldsmith, Eric S., 4,677,656, Cl. 379-63.000.

Goldsmith, Harry S.: *See—*
Catsimpoolas, Nicholas; and Goldsmith, Harry S., 4,699,788, Cl. 424-104.000.

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Boxman, Raymond L.; Goldsmith, Shmuel; Brosh, Nissan; Shalev, Shaul; and Yaloz, Hanan, 4,645,895, Cl. 219-76.130.

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Goldstein, Arthur, to Ramtek Corporation. Multiprocessor communication method and apparatus. 4,698,746, 10-6-87, Cl. 364-200.000.

Goldstein, Arthur L., to Ionics, Incorporated. Structure selective fibrous sorbents and method and apparatus for using the same. 4,643,814, 2-17-87, Cl. 204-180.100.

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4,661,224, 4-28-87, Cl. 204-182.300.

Goldstein, Arthur L.: *See—*
Parsi, Edgardo J.; Sims, Keith J.; and Goldstein, Arthur
4,707,240, Cl. 204-290.00F.

Goldstein, Bernard, to RCA Corporation. Recording medium
method of making the same. 4,663,753, 5-5-87, Cl. 369-132.000.

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Dinkel, Nancy A.; Goldstein, Bernard; and Ettenberg, Mich
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Goldstein, David, to United States of America, Navy. Fabricatio
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4,702,884, 10-27-87, Cl. 419-8.000.

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Kung, Patric C.; and Goldstein, Gideon, 4,637,983, Cl. 435-240.
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Goldstein, Guy: *See—*
Madsen, Willy B.; Jensen, Finn H.; Rasmussen, Ole B.; Goldste
Guy; and Roussin-Moynier, Yves R., 4,636,419, Cl. 428-131.

Goldstein, Henry: *See—*
Cowles, John M.; Goldstein, Henry; Chicoye, Etzer; and Ti
Patrick L., 4,644,084, Cl. 568-341.000.

Goldstein, Howard E.: *See—*
Riccitiello, Salvatore R.; Smith, Marnell; Goldstein, Howard
and Zimmerman, Norman B., 4,713,275, Cl. 428-76.000.

Goldstein, Irving S., to Duro-Test Corporation. Infrared reflect
lamp with envelope having straight sections. 4,714,857, 12-22-87,
313-112.000.

Goldstein, Jacob H.: *See—*
Iacobucci, Guillermo A.; King, George A.; Goldstein, Jacob
and Benemann, John R., 4,638,005, Cl. 544-336.000.

Goldstein, Jerome J., to Aquafilter Corporation. Cigarette filter hold
4,646,761, 3-3-87, Cl. 131-335.000.

Goldstein, Joel E.; and Mao, Chung-Ling, to Air Products and Che
cals, Inc. Trail addition of acrylamidobutyraldehyde dialkyl acet
type monomers during the polymerization of vinyl acetate copolym
binders. 4,647,611, 3-3-87, Cl. 524-458.000.

Goldstein, Joel E.: *See—*
Pinschmidt, Robert K., Jr.; Dixon, Dale D.; Burgoyne, William
Jr.; and Goldstein, Joel E., 4,663,410, Cl. 526-263.000.

Goldstein, Marc, to Cornell Research Foundation, Inc. Microsp
surgical approximator. 4,635,636, 1-13-87, Cl. 128-334.00R.

Goldstein, Mark E.: *See—*
Thalenfeld, David R.; Goldstein, Mark E.; and Govang, James
4,688,683, Cl. 211-57.100.

Goldstein, Marvin S.: *See—*
Lindsley, John F.; Goldstein, Marvin S.; and Quayle, William
4,652,545, Cl. 502-255.000.

Goldstein, Neil I., to Immunomedics, Inc. Method of producing mon
clonal anti-idiotype antibody. 4,699,880, 10-13-87, Cl. 435-172.200.

Goldstein, Richard: *See—*
Popowski, James J.; and Goldstein, Richard, 4,709,230,
340-703.000.

Goldstein, Samuel M.; and Halford, Wayne R., to Mattel, Inc. T
racing set with exploding raceway. 4,661,080, 4-28-87, Cl. 446-4.00

Goldstein, Samuel M.: *See—*
Crosson, Peter; Sanchez, Terry; Gray, Kevin; and Goldstei
Samuel M., 4,690,658, Cl. 446-429.000.

Goldstein, Steven A.: *See—*
Matthews, Larry S.; and Goldstein, Steven A., 4,659,331,
623-20.000.
Matthews, Larry S.; and Goldstein, Steven A., 4,706,659, Cl. 12
92.0VD.

Goldstein, Theodore P., to Mobil Oil Corporation. Regeneration
pillared clays with gas containing a small amount of ammon
4,650,779, 3-17-87, Cl. 502-38.000.

Goldstein, Vladimir, to Sunwell Engineering Company Limited. R
frigeration system. 4,640,100, 2-3-87, Cl. 62-197.000.

Goldstein, Vladimir L., to Sunwell Engineering Company Ltd. Corr
gated plate heat exchanger. 4,669,277, 6-2-87, Cl. 62-354.000.

Goldstein, Yeshayahu S. A.; and Winsor, Niels K., to GT-Device
Pulse synthesizing network and method. 4,670,662, 6-2-87,
307-106.000.

Goldstein, Yeshayahu S. A.; Tidman, Derek A.; Burton, Rodney L
Massey, Dennis W.; and Winsor, Niels K., to GT-Devices. Cartrid
containing plasma source for accelerating a projectile. 4,715,26
12-29-87, Cl. 89-8.000.

Goldstone, Ted A. Document holder with preprinted locating ai
4,636,099, 1-13-87, Cl. 400-531.000.

Goldwasser, Benad; and Carson, Culley, to Duke University Paten
Foundation. Surgical dissector. 4,711,240, 12-8-87, Cl. 128-319.000.

Goldwasser, David J.: *See—*

Cassidy, Edward F.; Goldwasser, David J.; and Onder, Kemal, 4,668,756, Cl. 528-69.000.

Goldwasser, Robert: *See—*

Crossley, Ian; Donoghue, Daniel; Goldwasser, Robert; Miley, John; and Spooner, Frank, 4,644,296, Cl. 331-1.00R.

Goldwater, John M. Valvular sail power plant. 4,684,817, 8-4-87, Cl. 290-55.000.

Goleczka, Joseph; Mills, Edmund P.; Harrison, Edward K.; and Nichols, Roy, to Coal Industry (Patents) Limited. Process for assessing coke micro-reactivity. 4,643,977, 2-17-87, Cl. 436-34.000.

Golemme, Attilio: *See—*

West, John; Golemme, Attilio; and Doane, Joseph W., 4,673,255, Cl. 350-347.00V.

Goletto, Jean: *See—*

Coquard, Jean; and Goletto, Jean, 4,680,379, Cl. 528-336.000.

Golftech Inc.: *See—*

Spielman, Rodney J.; and Allison, Donald J., 4,669,770, Cl. 294-19.200.

Goli, Maria E. Process and plant producing hard tacks and dry biscuits. 4,674,401, 6-23-87, Cl. 99-348.000.

Goliarda Mugnai Trust: *See—*

Pera, Ivo, 4,716,024, Cl. 422-186.010.

Goliaszewski, Alan E.; and Salinaro, Richard F., to Halcon SD Group, Inc., The. Process for the preparation of anthraquinone. 4,666,632, 5-19-87, Cl. 260-369.000.

Golick, Leonard R.: *See—*

Scrabis, Charles M.; Mazza, Gregory E.; Golick, Leonard R.; and Pomaibo, Paul, 4,711,755, Cl. 376-260.000.

Scrabis, Charles M.; Mazza, Gregory E.; Golick, Leonard R.; and Pomaibo, Paul, 4,711,759, Cl. 376-284.000.

Golicz, Roman M., to G.B.R. Ltd. Mechanism for slitting and merging sheets. 4,674,375, 6-23-87, Cl. 83-91.000.

Golikov, Vladislav V.: *See—*

Gluschenko, Nikolai N.; Golikov, Vladislav V.; and Emelyanov, Viktor A., 4,677,864, Cl. 73-863.510.

Golino, Carlo: *See—*

Lachman, Irwin M.; and Golino, Carlo, 4,657,880, Cl. 502-64.000.

Golisch, Hans-Joachin, to Paul Troester Maschinenfabrik. Extrusion head. 4,652,224, 3-24-87, Cl. 425-131.100.

Golker, Christian: *See—*

Egerer, Peter; Crueger, Wulf; and Golker, Christian, 4,681,843, Cl. 435-41.000.

Golker, Walter; Tamm, Horst; and Wanka, Eberhard, to Siemens Aktiengesellschaft. Magnetic field probe with improved positioning of a winding and core plate thereof relative to a housing of the probe. 4,675,607, 6-23-87, Cl. 324-247.000.

Goll, John D., to Celotex Corporation, The. Wet-end molded product. 4,698,257, 10-6-87, Cl. 428-227.000.

Goll, Werner, to Solvay & Cie (Societe Anonyme). Clear lacquer based on polyvinylidene fluoride and a process for the coating of metallic surfaces. 4,642,249, 2-10-87, Cl. 427-388.500.

Golla, Franz: *See—*

Wisniewski, Paul; and Golla, Franz, 4,701,249, Cl. 204-279.000.

Golladay, Harvey L., to Tektronix, Inc. Control devices for use with a stepping motor. 4,634,949, 1-6-87, Cl. 318-696.000.

Gollan, Arye Z., to A/G Technology Corporation. Anisotropic membranes for gas separation. 4,681,605, 7-21-87, Cl. 55-158.000.

Golledge, Ian: *See—*

Day, George D.; Flack, John K.; Golledge, Ian; Hillary, Christopher J.; Pike, John V.; and Watson, Michael H., 4,640,485, Cl. 248-422.000.

Goller, Elmar: *See—*

Grethe, Klaus; Eickhoff, Heinrich; Goller, Elmar; and Hulsen, Ralf, 4,698,014, Cl. 431-9.000.

Goller, Ernst; and Staiger, Eugen, to H. Stoll GmbH & Co. Knitting instrument carrier for knitting machines. 4,649,721, 3-17-87, Cl. 66-115.000.

Goller, Ernst; and Walker, Fritz, to H. Stoll GmbH & Co. Yarn tensioning device for flat knitting machines. 4,700,553, 10-20-87, Cl. 66-146.00R.

Goller, Ernst; Herman, Udo; Muller, Adam; and Walker, Fritz, to H. Stoll GmbH & Company. Flat-bed knitting machine having a carriage displaceable into a position for servicing. 4,703,630, 11-3-87, Cl. 66-64.000.

Goller, Ernst; Muller, Adam; and Hermann, Udo, to H. Stoll GmbH & Co. Flat-bed knitting machine. 4,711,101, 12-8-87, Cl. 66-64.000.

Goller, Ernst: *See—*

Muller, Adam; and Goller, Ernst, 4,679,413, Cl. 66-125.00R.

Muller, Adam; and Goller, Ernst, 4,680,946, Cl. 66-64.000.

Stoll, Thomas; Goller, Ernst; Kazmaier, Guenther; and Schmid, Franz, 4,658,603, Cl. 66-126.00R.

Goller, Gerd. Inner part of shoe with a surface massaging the soles of the feet and process for its fabrication. 4,674,203, 6-23-87, Cl. 36-44.000.

Goller, Helmut: *See—*

Ehrlinger, Friedrich; Goeft, Manfred; and Goller, Helmut, 4,667,527, Cl. 74-411.500.

Gollhardt, Bradley J.: *See—*

Broaddus, Clarke R.; and Gollhardt, Bradley J., 4,712,988, Cl. 425-725.000.

Gollin, Robert: *See—*

Andre, Guy; Gollin, Robert; and Daloia, Gaetan, 4,680,834, Cl. 24-16.0PB.

Gollinger, Franz X.; and Hechler, Hatto, to MAN-Roland Druckmaschinen Aktiengesellschaft. Apparatus for stretching a printing plate on a plate holding cylinder. 4,646,639, 3-3-87, Cl. 101-415.100.

Gollinger, Wolfgang, to Deutsche ITT Industries GmbH. Cmos inverter. 4,712,021, 12-8-87, Cl. 307-355.000.

Gollnick, Wilhelm; Klauke, Friedrich; and Mohr, Karl-Heinz, to Balcke-Durr Aktiengesellschaft. Regenerative heat exchanger. 4,651,809, 3-24-87, Cl. 165-9.000.

Gollub, Erwin: *See—*

Brenner, Heinz; Husch, Bruno; and Gollub, Erwin, 4,671,694, Cl. 403-226.000.

Gollub, Hans J.; Hechenberger, Dieter A.; and Moermann, Renate, to Lingner & Fischer GmbH. Composition. 4,716,189, 12-29-87, Cl. 524-284.000.

Golman, Klaes, to Claus Riemann & Co. ApS. Antiperspirant kit and method for controlling perspiration. 4,650,671, 3-17-87, Cl. 424-66.000.

Goloff, Alexander, to Caterpillar Tractor Co. Coaxial turbomachine. 4,661,042, 4-28-87, Cl. 415-64.000.

Golomb, Manfred: *See—*

Langhoff, Josef; Krischke, Hermann; Geldmacher, Horst; Golomb, Manfred; Kamp, Karl-Heinz; Masuch, Peter; and Chalupnik, Rolf, 4,715,809, Cl. 431-170.000.

Goloski, Leonard F.: *See—*

Figler, Alan A.; Grimm, Daniel J.; Goloski, Leonard F.; and Martucci, James P., 4,647,219, Cl. 374-1.000.

Golovlev, Evgeny L.: *See—*

Redikultsev, Jury V.; Litvinenko, Leonid A.; Golovlev, Evgeny L.; Golovleva, Ljudmila A.; Chermensky, Dmitry N.; and Skryabin, Georgy K., 4,686,189, Cl. 435-289.000.

Golovleva, Ljudmila A.: *See—*

Redikultsev, Jury V.; Litvinenko, Leonid A.; Golovlev, Evgeny L.; Golovleva, Ljudmila A.; Chermensky, Dmitry N.; and Skryabin, Georgy K., 4,686,189, Cl. 435-289.000.

Golston, Stefan: *See—*

Sherman, Michael I.; and Golston, Stefan, 4,637,779, Cl. 415-143.000.

Golub, Allyn; and Hendeles, Leslie, to Key Pharmaceuticals, Inc., by said Allyn Golub. Method and composition for treating bronchospastic airway diseases. 4,689,213, 8-25-87, Cl. 424-45.000.

Golub, Lorne M.; McNamara, Thomas F.; and Ramamurthy, N. S., to Research Foundation of State University. Inhibition of mammalian collagenolytic enzymes by tetracyclines. 4,666,897, 5-19-87, Cl. 514-152.000.

Golub, Lorne M.: *See—*

McNamara, Thomas F.; Ramamurthy, Nungavaram S.; and Golub, Lorne M., 4,704,383, Cl. 514-152.000.

Golubenko, Alexandr L.; Turchin, Viktor P.; Konyaev, Alexei N.; Sukhov, Igor N.; Kaljuzhny, Nikolai N.; Filonov, Arkady S.; Koropets, Alexei P.; Pinovsky, Mikhail I.; Tkachenko, Viktor P.; and Kramar, Nikolai M., to Voroshilovgradsky Mashinostroitelny Institut. Resilient wheel of a railway car. 4,635,990, 1-13-87, Cl. 295-11.000.

Golubeva, Diana F.: *See—*

Gendelman, Mikhail A.; Borodulin, Anatoly F.; Golubeva, Diana F.; and Bychkov, Sergei V., 4,694,867, Cl. 139-192.000.

Golubeva, Svetlana M.: *See—*

Masovich, Felix Z.; Khorin, Vladimir N.; Golubeva, Svetlana M.; and Shishlov, Vyacheslav I., 4,633,723, Cl. 74-141.500.

Golwas, Robert F.; Pennison, Robert A.; and Eckman, Richard E., to Dresser Industries, Inc. Positive feed drill use counter. 4,702,650, 10-27-87, Cl. 408-6.000.

Golz, Gerhard: *See—*

Ruckert, Edward; and Golz, Gerhard, 4,682,906, Cl. 403-409.100.

Goma, Gerard: *See—*

Finck, Jean-Daniel; and Goma, Gerard, 4,675,294, Cl. 435-167.000.

Gomann, Rolf; and Grasse, Hans-Jochen, to Hauni-Werke Korber & Co. KG. Apparatus for transporting and changing the orientation of cigarettes or the like. 4,668,152, 5-26-87, Cl. 414-403.000.

Gombos, Esther: *See—*

Haus, Joseph B.; and Gombos, Esther, 4,676,977, Cl. 424-45.000.

Gomersall, Rodney. Inlet and outlet valves. 4,637,441, 1-20-87, Cl. 141-349.000.

Gomes, Agnelo F. R.: *See—*

Bateman, Victor E.; and Gomes, Agnelo F. R., 4,655,368, Cl. 221-4.000.

Gomes, John M.; and Gilson, Charles F., to Pitney Bowes Inc. Control signal buffer for use in an inserter system. 4,707,790, 11-17-87, Cl. 364-478.000.

Gomes, Les R., Jr. Emergency ignition shutoff system. 4,636,604, 1-13-87, Cl. 200-331.000.

Gomes, Rodney A.: *See—*

Stewart, Russell M.; and Gomes, Rodney A., 4,715,531, Cl. 229-73.000.

Gomez, Eduardo: *See—*

Laitar, Robert A.; and Gomez, Eduardo, 4,634,758, Cl. 528-129.000.

Gomez Harlow, James B. 4 Plus double loader. 4,679,343, 7-14-87, Cl. 42-87.000.

Gomez, I. Luis, to Monsanto Company. Fire-resistant interlayer. 4,681,810, 7-21-87, Cl. 428-429.000.

Gomez, I. Luis, to Monsanto Company. Fire-resistant composition. 4,704,418, 11-3-87, Cl. 524-141.000.

Gomez, I. Luis, to Monsanto Company. Composition for imparting fire-resistance to laminating interlayers. 4,707,304, 11-17-87, Cl. 252-609.000.

Gomez, Isaac. Cookie machine. 4,643,084, 2-17-87, Cl. 99-352.000.

Gomez, Joseph M.: *See—*

Barnett, Joseph A.; Gomez, Joseph M.; Green, William F.; Lisica, Vincent M.; and Rosenthal, Arnold B., 4,714,400, Cl. 414-751.000.

Gomez, Samuel. Elevator escape structure. 4,645,037, 2-24-87, Cl. 187-1.00R.

Gomez-Sanchez, Abel: *See—*

Valdes-Neri, Jaime; Gomez-Sanchez, Abel; and Calderon-Quintero, Miguel H., 4,687,503, Cl. 65-174.000.

Gomez, Sergio V.: *See—*

Baucom, D. Michael; and Gomez, Sergio V., 4,716,534, Cl. 364-559.000.

Gomi, Fukuo: *See—*

Anahara, Meiji; Mizuno, Yoshikatsu; Hirano, Mitsutoshi; and Gomi, Fukuo, 4,671,336, Cl. 164-110.000.

Gomi, Hidehito: *See—*

Itagaki, Tadashi; Gomi, Hidehito; and Komatsubara, Masahiko, 4,675,907, Cl. 381-152.000.

Gomi, Hiromi: *See—*

Niino, Masayuki; Yatsuyanagi, Nobuyuki; Kumakawa, Akiraga; Suzuki, Akio; Gomi, Hiromi; Sakamoto, Hiroshi; Sasaki, Masaki; Masuda, Yoshimichi; Watanabe, Ryuzo; Takekawa, Junjiro; Ohtsuki, Etsuo; and Isago, Terashi, 4,703,620, Cl. 60-260.000.

Gomi, Koichi: *See—*

Tanaka, Kenzi; Gomi, Koichi; Fukuda, Tamotsu; and Hayashi, Masataka, 4,671,240, Cl. 123-463.000.

Gomi, Manabu; and Abe, Masanori, to Nippon Sheet Glass Co., Ltd. Method of forming a rare earth-iron-garnet vertically magnetized film. 4,657,782, 4-14-87, Cl. 427-130.000.

Gomi, Shimpei; Ueda, Takuya; Nakagawa, Takao; and Tachibana, Masaharu, to Fuji Standard Research, Inc. Process for the production of carbonaceous pitch. 4,663,022, 5-5-87, Cl. 208-67.000.

Gomi, Tatsuya: *See—*

Tanaka, Hideo; Ohhashi, Kuniyoshi; Gomi, Tatsuya; and Dobashi, Tomoyuki, 4,649,054, Cl. 426-397.000.

Gomi, Tetsuo; Suganuma, Nobuo; Ishii, Kazuo; and Sato, Hiroshi, to Lion Corporation. Oral composition. 4,649,044, 3-10-87, Cl. 424-49.000.

Gomibuchi, Reizo: *See—*

Tomibe, Shinji; Gomibuchi, Reizo; and Takahashi, Kiyofumi, 4,681,820, Cl. 428-698.000.

Tomibe, Shinji; Gomibuchi, Reizo; Takahashi, Kiyofumi; and Kato, Noboru, 4,690,854, Cl. 428-195.000.

Gommier, Herve; and Lamblin, Jean-Michel, to Draftex Industries Limited. Sealing strips. 4,708,898, 11-24-87, Cl. 428-36.000.

Gomory, Paul L.: *See—*

Gagle, Duane W.; Gagle, Duane W., Jr.; Gagle, Richard L.; and Gomory, Paul L., 4,678,375, Cl. 405-270.000.

Gompper, Rudolf: *See—*

Kolbl, Heinz; Gompper, Rudolf; Behrenz, Wolfgang; Hammann, Ingeborg; Homeyer, Bernhard; and Hermann, Gunther, 4,647,581, Cl. 514-475.000.

Goncalves, Antonin, to French Joint Stock Company "L'Oreal"The. Packaging means in two parts. 4,693,366, 9-15-87, Cl. 206-222.000.

Goncalves, Antonin, to L'Oreal. Cosmetic container having variable product take-up. 4,705,053, 11-10-87, Cl. 132-88.700.

Goncalves, Antonin L.; and Bigotte, Francois, to L'Oreal. Bottle and closure having positioning catches. 4,662,530, 5-5-87, Cl. 215-330.000.

Goncalves, Antonin L., to L'Oreal. Assembly for dispensing doses of a substance of a liquid or pasty consistency. 4,664,299, 5-12-87, Cl. 222-327.000.

Gonczi, Csaba: *See—*

Heja, Gergely; Korbonits, Dezso ; Palosi, Endre; Kiss, Pal; Gonczi, Csaba; Szvoboda nee Kanzel, Ida; Marvanyos, Ede; Kun, Judit; Szomor nee Wundele, Maria; Szabo, Gabor; Kallay, Tamas; and Ledniczky, Laszlo , 4,709,081, Cl. 560-100.000.

Gonczy, John D.: *See—*

Niemann, Ralph C.; Gonczy, John D.; and Nicol, Thomas H., 4,696,169, Cl. 62-514.00R

Gonczy, Stephen T.: *See—*

Lester, George R.; Gonczy, Stephen T.; Welsh, Lawrence B.; and Stranford, Gerald T., 4,701,316, Cl. 423-344.000.

Gonda, Katsumi: *See—*

Mizuno, Yoshikazu; Gonda, Katsumi; Ikuma, Akira; and Ochiai, Takeshi, 4,650,020, Cl. 180-176.000.

Gonda, Michihiro: *See—*

Kaneko, Kazuo; Suzuka, Susumu; Gonda, Michihiro; and Kanasugi, Mikiko, 4,694,088, Cl. 549-226.000.

Sensui, Hideyuki; Suzuka, Susumu; Gonda, Michihiro; and Kikkawa, Katsumasa, 4,642,663, Cl. 346-221.000.

Gonda, Tsunemi: *See—*

Mitani, Kiyoharu; Morohashi, Kazuo; Yamada, Kenji; Gonda, Tsunemi; and Mizutani, Hideo, 4,641,964, Cl. 356-124.000.

Gondard, Christian: *See—*

Michel, Alain; and Gondard, Christian, 4,647,629, Cl. 525-350.000.

Gondo, Toyomi: *See—*

Nogi, Teiji; and Gondo, Toyomi, 4,680,663, Cl. 361-2.000.

Gondoh, Hiroyuki: *See—*

Yamaguchi, Hisashi; Takahara, Kazuhiro; Gondoh, Hiroyuki; Kawada, Toyoshi; and Andoh, Shizuo, 4,636,789, Cl. 340-805.000.

Gondou, Takafumi; Amada, Eiichi; and Asano, Kenichi, to Hitachi, Ltd.; and Hitachi Microcomputer Engineering, Ltd. Semiconductor memory having load devices controlled by a write signal. 4,665,507, 5-12-87, Cl. 365-190.000.

Gondouin, Michel, to S-Cal Research Corp. Heavy oil recovery process. 4,706,751, 11-17-87, Cl. 166-272.000.

Gondouin, Oliver M. Natural gas conversion process. 4,705,908, 11-10-87, Cl. 585-500.000.

Gonen, Amos: *See—*

Stern, Geoffrey S.; Avni, Zion; Gonen, Amos; and Peleg, Amiram 4,691,783, Cl. 169-61.000.

Gong, Frank: *See—*

Ficken, William H.; Gonska, Josephine; and Gong, Frank 4,703,654, Cl. 73-504.000.

Gong, William: *See—*

Birk, John; Breu, Heinz; Gong, William; Morehouse, Charles C. and Liebes, Sidney, Jr., 4,705,081, Cl. 140-147.000.

Gongora, Henri; Lalanne, Henri; and Perono, Rene, to Societe Nationale Elf Aquitaine. Sealing system in a chemical apparatus between an enlosure of brittle material and metal components. 4,645,64 2-24-87, Cl. 422-186.000.

Gongora, Henri; and Tournier-Lasserve, Jacques, to Societe Nationale Elf Aquitaine (Production). Manufacture of alkane sulphonyl chlorides. 4,699,736, 10-13-87, Cl. 260-543.00R.

Gongwer, Calvin A., to Innerspace Corporation. Wall thruster and method of operation. 4,672,807, 6-16-87, Cl. 60-222.000.

Gongwer, Calvin A., to Innerspace Corporation. Watercraft propulsion device. 4,688,994, 8-25-87, Cl. 416-82.000.

Gongwer, Calvin A.: *See—*

Appling, James; and Gongwer, Calvin A., 4,709,358, Cl. 367-106.000.

Troup, Edward M., deceased; Kendall, Giles A.; Han, Joseph U.; Moralez, Christopher M.; and Gongwer, Calvin A., 4,681,259, Cl. 239-206.000.

Gonier, Larry W.: *See—*

Dewey, James D.; Pedersen, Matthew G.; and Gonier, Larry W. 4,663,838, Cl. 29-751.000.

Gonjo, Yoshihide: *See—*

Matsumura, Mitsuie; Okada, Tatsunori; and Gonjo, Yoshihide 4,647,516, Cl. 429-19.000.

Matsumura, Mitsuie; Okada, Tatsunori; and Gonjo, Yoshihide 4,650,728, Cl. 429-19.000.

Gonnam, Russell W.; and Sun, Shan C., to Westinghouse Electric Corp. Direct transfer trip apparatus for use with an active pilot wire communications channel. 4,675,774, 6-23-87, Cl. 361-64.000.

Gonnam, Russell W.: *See—*

Sun, Shan C.; and Gonnam, Russell W., 4,675,775, Cl. 361-64.000.

Gonnet, Olivier; and Rousset, Jacky, to Coatex S.A. Water soluble dispersant for water-based pigment compounds comprising a terpolymer of acrylic acid methacrylic acid and itaconic acid. 4,687,789 8-18-87, Cl. 523-122.000.

Gono, Takeshi: *See—*

Osanai, Akinori; Niwa, Takao; and Gono, Takeshi, 4,649,485, Cl. 364-424.100.

Osanai, Akinori; Gono, Takeshi; and Niwa, Takao, 4,649,487, Cl. 364-424.100.

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Osanai, Akinori; Niwa, Takao; and Gono, Takeshi, 4,653,006, Cl. 364-424.100.

Osanai, Akinori; Niwa, Takao; and Gono, Takeshi, 4,656,587, Cl. 364-424.100.

Osanai, Akinori; Niwa, Takao; and Gono, Takeshi, 4,658,360, Cl. 364-424.100.

Osanai, Akinori; Niwa, Takao; and Gono, Takeshi, 4,683,779, Cl. 74-861.000.

Gonsalves, Edward M.; Sogge, Dale R.; and Charboneau, Thomas J., to Texas Instruments Incorporated. Coolant condition sensor apparatus 4,662,232, 5-5-87, Cl. 73-866.500.

Gonsalves, Edward M.: *See—*

Blankenship, Gene E.; Gonsalves, Edward M.; Kawate, Keith W.; Sacarisen, Stephen P.; Giolma, William H.; and Spanjol, Damir A., 4,666,582, Cl. 204-404.000.

Gonska, Josephine: *See—*

Ficken, William H.; Gonska, Josephine; and Gong, Frank, 4,703,654, Cl. 73-504.000.

Gonsot, Christian. Process and apparatus for the subtitling and/or the trick photography of cinematographic films using particularly a screen copier and a computer. 4,666,271, 5-19-87, Cl. 352-90.000.

Gonterman, Ricky A., to Brown & Williamson Tobacco Corporation Cigarette filter and method of making the same. 4,649,943, 3-17-87, Cl. 131-336.000.

Gonthier, Bruno F.: *See—*

Lelu, Andre E.; Grignon, Jean R.; Gonthier, Bruno F.; and Tauzia Jean-Michel, 4,638,735, Cl. 102-290.000.

Gonthier, Emile: *See—*

Daigle, Clement; and Gonthier, Emile, 4,693,482, Cl. 277-207.00A

Gontier, Alex: *See—*

Brison, Bernard; Galerneau, Jacques; Gontier, Alex; and Petrozzi, Gerard, 4,710,980, Cl. 2-50.000.

Gontowski, Walter S., Jr.; Metro, John G.; and Yole, Steven S., to Cherry Semiconductor Corporation. Relaxation oscillator integrated circuit having shortable zener diodes for adjusting discharge current 4,670,721, 6-2-87, Cl. 331-44.000.

Gonzales, Arturo E. F. Message cover for electrical wall switches 4,707,564, 11-17-87, Cl. 174-66.000.

Gonzales, Estevan; and Spector, George. Self loading wood burning stove. 4,688,544, 8-25-87, Cl. 126-73.000.

Gonzales, Manuel, Jr.: *See—*

Turner, Robert B.; Peffley, Richard D.; Plepys, Raymond A.; Priester, Ralph D.; Gonzales, Manuel, Jr.; and Bushman, Kimbley A., 4,686,242, Cl. 521-137.000.

Gonzales, Ray O., Jr.: *See—*

Hacetoglu, Ararat; Kodatsky, William K.; and Gonzales, Ray O., Jr., 4,645,130, Cl. 241-16.000.

Gonzalez, Avelino J.; Murphy, Franklin J.; Emery, Franklin T.; Weyant, Perry A.; and Craig, William G., to Westinghouse Electric Corp. Generator stator winding diagnostic system. 4,698,756, 10-6-87, Cl. 364-557.000.

Gonzalez, Carlos F.; and Gryczka, Alfred J., to Microlife Technics, Inc. Derived nisin producing microorganisms, method of production and use and products obtained thereby. 4,716,115, 12-29-87, Cl. 435-172.300.

Gonzalez Centeno, Engracia: *See—*

Ollero Pina, Juan Carlos; Gonzalez Centeno, Engracia; and Varela Fuentes, Manuel, 4,663,174, Cl. 426-282.000.

Gonzalez, Jay A.: *See—*

Pathak, Prabodh; Salter, Stephen J.; Gonzalez, Jay A.; and Perkins, Thomas K., 4,687,059, Cl. 166-271.000.

Gonzalez, Jose M., to Kustom Fit Manufacturing Co., Ltd. Sofa bed with front extension. 4,669,135, 6-2-87, Cl. 5-37.00R.

Gonzalez, Manuel E., to Exxon Production Research Co. Select fire well perforator system and method of operation. 4,656,944, 4-14-87, Cl. 102-312.000.

Gonzalez, Manuel E., to Exxon Production Research Company. Linear plane perforator. 4,676,309, 6-30-87, Cl. 166-55.000.

Gonzalez, Octavio R.; Gonzalez, Ray; and Gonzalez, Roy. Insect trap. 4,698,934, 10-13-87, Cl. 43-121.000.

Gonzalez Oliver, Carlos J. R.; De Pous, Olivier; and Schneider, Michel, to Battelle Memorial Institute. Porous spherical glass filtrating beads and method for the manufacturing thereof. 4,713,338, 12-15-87, Cl. 435-176.000.

Gonzalez, Pierre: *See—*

Cretin, Jacques; Beauducel, Claude; Rudaz, Jean; and Gonzalez, Pierre, 4,636,992, Cl. 367-20.000.

Cretin, Jacques; Rudaz, Jean; and Gonzalez, Pierre, 4,644,506, Cl. 367-19.000.

Gonzalez, Ramon. Table game. 4,679,793, 7-14-87, Cl. 273-85.00R.

Gonzalez, Ray: *See—*

Gonzalez, Octavio R.; Gonzalez, Ray; and Gonzalez, Roy, 4,698,934, Cl. 43-121.000.

Gonzalez, Roy: *See—*

Gonzalez, Octavio R.; Gonzalez, Ray; and Gonzalez, Roy, 4,698,934, Cl. 43-121.000.

Gonzalez, Sergio, to Kasos N.V. Combined forward and rearward viewing mirror assembly for automotive vehicles. 4,685,779, 8-11-87, Cl. 350-604.000.

Gonzalez, Wayne H.: *See—*

Lawhon, Robert A.; Heithoff, Robert B.; and Gonzalez, Wayne H., 4,696,691, Cl. 65-27.000.

Gonzato, Rinaldo: *See—*

Garavaglia, Attilio; Sironi, Enrico; and Gonzato, Rinaldo, 4,659,286, Cl. 416-170.00R.

Garavaglia, Attilio; and Gonzato, Rinaldo, 4,659,287, Cl. 416-170.00R.

Gonzenbach, Hans U.: *See—*

Schudel, Peter; Schwarzenbach, Rolf; and Gonzenbach, Hans U., 4,713,473, Cl. 560-053.000.

Gonzi, Mario. Microleaks intercepting apparatus for avoiding and/or signalling oil leakages in hydraulic plants and for equivalent uses. 4,658,856, 4-21-87, Cl. 137-543.230.

Gooch, William C.: *See—*

Van Stokes, William; and Gooch, William C., 4,674,938, Cl. 414-228.000.

ood, Andrew: *See—*

Masterton, Walter D.; and Good, Andrew, 4,665,339, Cl. 313-403.000.

ood, Charlie J.: *See—*

Solomon, Donald F.; Solomon, Romona L.; and Good, Charlie J., 4,714,546, Cl. 210-137.000.

ood, Daniel H.: *See—*

Good, David S.; and Good, Daniel H., 4,702,091, Cl. 66-171.000.

ood, David S.; and Good, Daniel H. Cuff member and sock. 4,702,091, 10-27-87, Cl. 66-171.000.

ood, Harold M. Heat exchanger for grain elevators or bins. 4,676,007, 6-30-87, Cl. 34-56.000.

ood, Ivan C.; and Jao, Yun C., to Miles Laboratories, Inc. Dust free particulate enzyme formulation. 4,689,297, 8-25-87, Cl. 435-174.000.

ood, John C., to Benboid Pty Ltd. Ladder means and method of production. 4,655,320, 4-7-87, Cl. 182-194.000.

ood, John W.: *See—*

Grimes, Richard V.; and Good, John W., 4,644,117, Cl. 200-84.00R.

ood, Leland F. Anchor removing assembly. 4,646,410, 3-3-87, Cl. 29-252.000.

ood, Maynard L. Apparatus and method for packing bulk material in plastic bags. 4,672,794, 6-16-87, Cl. 53-440.000.

ood, Robert S.; Scully, Michael J.; and Zelko, William E., to AMP Incorporated. Shielded cable assembly. 4,701,139, 10-20-87, Cl. 439-497.000.

ood, Thomas J., to Analytichem International, Inc. Automatic sample injector and disposable sample cassette. 4,711,764, 12-8-87, Cl. 422-65.000.

Good, Thomas N.: *See—*

Svenson, Richard N.; Hicks, Thomas S.; and Good, Thomas N., 4,669,029, Cl. 361-392.000.

Good, Warren T.; and Vilhauer, Jacob E., Jr. Automatically-adjustable uneven parallel bars for gymnastics. 4,687,194, 8-18-87, Cl. 272-63.000.

Goodacre, Brita C.: *See—*

Bateman, John R.; Goodacre, Brita C.; and Smithson, Alan, 4,710,231, Cl. 127-30.000.

Goodacre, John H.; and Brogren, Eric, to Chevron Research Company. Lip-type sealing system for a removable bottom founded structure. 4,695,198, 9-22-87, Cl. 405-224.000.

Goodacre, John H.; and Hall, Larry J., to Chevron Research Company. Elastomeric bearing pad and seal for a removable bottom founded structure. 4,695,199, 9-22-87, Cl. 405-224.000.

Goodacre, John H.: *See—*

Beskow, Robert H.; Dunn, Patrick J.; Goodacre, John H.; Hall, Larry J.; Fischer, William H.; and Carlson, E. Ronald, 4,695,201, Cl. 405-224.000.

Hall, Larry; and Goodacre, John H., 4,695,200, Cl. 405-224.000.

Goodacre, Stanley A.; and Blaubaum, Anthony E., to ACI Australia Limited. Laminate material with fibrous inner layer. 4,656,082, 4-7-87, Cl. 428-248.000.

Goodale, David L.; and Darden, Nick, to Beckman Instruments, Inc. Rotary pinch valve. 4,694,861, 9-22-87, Cl. 137-624.190.

Goodale, John B.: *See—*

Adams, John T.; and Goodale, John B., 4,712,996, Cl. 431-20.000.

Goodall, Brian L.; and Grothenhuis, Paulus A. M., to Shell Oil Company. Extraction of Group 8 metals from organic solutions. 4,680,168, 7-14-87, Cl. 423-22.000.

Goodall, Brian L.: *See—*

Bilhou, Jean L.; and Goodall, Brian L., 4,683,215, Cl. 502-107.000.

Goodall Rubber Company: *See—*

DeMeo, Joseph F.; and Williamson, Frederick B., III, 4,688,890, Cl. 350-96.230.

Goodall, S. Richard, to Distributors Processing Inc. Yucca extract grain tempering mixture and process. 4,657,766, 4-14-87, Cl. 426-309.000.

Goodard, Earl F., to Ayr Pty. Ltd. Alternator mounting assembly. 4,666,122, 5-19-87, Cl. 248-666.000.

Goodard, Errol D.: *See—*

Ananthapadmanabhan, Kavssery P.; and Goodard, Errol D., 4,690,892, Cl. 435-183.000.

Goodbary, Edgar R.; and Bartley, Francis A. Off-highway vehicle body support structure. 4,684,152, 8-4-87, Cl. 280-785.000.

Goodbred, Neil G., to General Motors Corporation. Manual seat adjuster with cam lock. 4,711,589, 12-8-87, Cl. 384-34.000.

Goodchild, Gath, to Standard Telephones and Cables Public Limited Company. Electrical circuit for interfacing high frequency signals to the logic levels of any logic family having a switching voltage at the mean of the "0" and "1" voltages. 4,677,319, 6-30-87, Cl. 307-475.000.

Goode, Bruce D.: *See—*

Carlson, Joseph D.; and Goode, Bruce D., 4,642,934, Cl. 43-55.000.

Goode, Henry C.; Hughes, Gary N.; and Michelotti, Donald P., to PPG Industries, Inc. Ablation melting with thermal protection. 4,668,271, 5-26-87, Cl. 65-137.000.

Goode, Henry C.: *See—*

Radecki, Francis A.; Hughes, Gary N.; and Goode, Henry C., 4,676,819, Cl. 65-135.000.

Goode, John. Swimming pool vacuum cleaner. 4,637,086, 1-20-87, Cl. 15-1.700.

Goode, Richard L.: *See—*

Bruce, Donald; and Goode, Richard L., 4,695,275, Cl. 604-264.000.

Goodell, Eston B.; and Dinda, Bruce L., to Eagle-Picher Industries, Inc. Method and apparatus for coating corrugated board. 4,668,536, 5-26-87, Cl. 427-235.000.

Goodell, Fred L.; and Ellison, Michael J., to AM General Corporation. Bead lock for pneumatic tires. 4,709,738, 12-1-87, Cl. 152-400.000.

Goodell, Paul D.; Huston, Ernest L.; Rudman, Peter S.; and Sandrock, Gary D., to Ergenics, Inc.; and Air Products and Chemicals, Inc. Methods of extracting hydrogen from a gas. 4,687,650, 8-18-87, Cl. 423-248.000.

Gooden, Richmond A., to United Aircraft Products, Inc. Bootstrap reservoir. 4,691,739, 9-8-87, Cl. 138-31.000.

Goodenow, Elden L.: *See—*

Spitler, Jack H.; Goodenow, Elden L.; and Jones, Lawrence E., 4,703,767, Cl. 134-102.000.

Gooderham, Roy J.: *See—*

Bennett, Alan F.; and Gooderham, Roy J., 4,660,760, Cl. 236-59.000.

Goodey, Stephen D. Electric work-in-circuit metal-bonding heating tool. 4,656,336, 4-7-87, Cl. 219-234.000.

Goodfellow, Anthony E. B., to Immediate Business Systems Inc. Portable billing machine. 4,674,056, 6-16-87, Cl. 364-483.000.

Goodfellow, Anthony G., to W & A Bates Limited. Expandable tire building former. 4,673,457, 6-16-87, Cl. 156-415.000.

Goodfellow, Anthony G.; and Wright, Anthony R., to W & A Bates Limited. Methods for handling sheet material. 4,714,505, 12-22-87, Cl. 156-64.000.

Goodfellow, James H.: *See—*

Wray, George; Ward, Trevor; and Goodfellow, James H., 4,676,744, Cl. 432-181.000.

Goodfellow, Robert C.: *See—*

Carter, Andrew C.; and Goodfellow, Robert C., 4,652,080, Cl. 350-96.190.

Goodhart, Milton E., to Hydril Company. Tertiary recovery method using inverted deviated holes. 4,646,836, 3-3-87, Cl. 166-303.000.

Goodhues, George S., Jr. Underground facility for storage of liquids. 4,638,920, 1-27-87, Cl. 220-445.000.

Gooding, Ronald D. Blackwater lifesaver. 4,664,638, 5-12-87, Cl. 441-6.000.

Goodings, Rupert L. A.: *See—*
  Ross, Peter F.; Rodgers, Ian W.; and Goodings, Rupert L. A., 4,647,908, Cl. 340-347.0DD.

Goodlaxson, John D., to Goodlaxson Mfg. Inc. Heating kettle. 4,649,263, 3-10-87, Cl. 219-438.000.

Goodlaxson Mfg. Inc.: *See—*
  Goodlaxson, John D., 4,649,263, Cl. 219-438.000.

Goodloe, Kent J., to Western Geophysical Company of America. Dual-mode vibrator. 4,639,905, 1-27-87, Cl. 367-189.000.

Goodman, Alvin M.; Goodman, Lawrence A.; Russell, John P.; and Robinson, Paul H., to RCA Corporation. Method for increasing the switching speed of a semiconductor device by neutron irradiation. 4,684,413, 8-4-87, Cl. 437-17.000.

Goodman, Billy R.: *See—*
  Arnold, Ronald D.; Baker, Samuel F.; and Goodman, Billy R., 4,646,842, Cl. 166-382.000.

Goodman, David S.: *See—*
  Anhalt, John W.; Goodman, David S.; and Selvin, Gerald J., 4,634,199, Cl. 339-17.00M.

Goodman, Donald W.: *See—*
  Shovlin, Thomas D.; Torino, Arthur J., Jr.; Goodman, Donald W.; and Brown, William C., Jr., 4,652,882, Cl. 342-150.000.

Goodman, Frederick A.; and Prentakis, Antonios E., to Teradyne, Inc. Light beam positioning apparatus. 4,685,775, 8-11-87, Cl. 350-486.000.

Goodman, George D., to General Electric Company. Current fed boost converter. 4,677,367, 6-30-87, Cl. 323-222.000.

Goodman, Gerald: *See—*
  McQueen, Sidney J., 4,635,528, Cl. 89-14.300.

Goodman, Howard, to ECC International Limited. Resin compositions comprising organoclays of improved dispersibility. 4,683,259, 7-28-87, Cl. 524-447.000.

Goodman, Howard; and Fugler, Andrew R., to English Clays Lovering Pochin & Company. Granule for separating organic compounds from aqueous liquids. 4,695,511, 9-22-87, Cl. 428-404.000.

Goodman, Howard M.: *See—*
  Rutter, William J.; Pictet, Raymond; Chirgwin, John; Goodman, Howard M.; Ullrich, Axel; and Shine, John, 4,652,525, Cl. 435-253.000.

Goodman, Jack E., to Optelecom Incorporated. Optical fiber switch and method of making same. 4,699,457, 10-13-87, Cl. 350-96.200.

Goodman, Jack E.: *See—*
  Schmadel, Donald C., Jr.; and Goodman, Jack E., 4,636,031, Cl. 350-96.190.

Goodman, James L.: *See—*
  Anderson, Roger A.; Goodman, James L.; Tickle, John D.; and Liskey, A. Keith, 4,653,953, Cl. 403-268.000.

Goodman, Jerome, to United States of America, Navy. Underwater acoustic impedance measuring apparatus. 4,648,275, 3-10-87, Cl. 73-589.000.

Goodman, Jerome, to United States of America, Navy. Underwater acoustic baffle enhancer. 4,669,573, 6-2-87, Cl. 181-286.000.

Goodman, Jon T.: *See—*
  Moore, Eugene R.; and Goodman, Jon T., 4,704,330, Cl. 428-407.000.

Goodman, Joseph J.: *See—*
  Carter, Guy T.; Greenstein, Michael; Goodman, Joseph J.; Borders, Donald B.; Maiese, William M.; and Testa, Raymond T., 4,705,688, Cl. 424-122.000.

Goodman, Joseph R.: *See—*
  Coller, James R.; Coon, Paul A.; and Goodman, Joseph R., 4,637,670, Cl. 339-46.000.
  Coller, James R.; and Goodman, Joseph R., 4,696,525, Cl. 439-69.000.

Goodman, Joseph W.; Hesselink, Lambertus; and Ochoa, Ellen, to Stanford University. System for enhancement of optical features. 4,674,824, 6-23-87, Cl. 350-3.640.

Goodman, Larry K.: *See—*
  Finkle, Louis J., 4,652,845, Cl. 335-285.000.

Goodman, Larry R.: *See—*
  Vlakancic, Connor G.; Pereira, Ruy J.; and Goodman, Larry R., 4,694,694, Cl. 73-386.000.

Goodman, Lawrence A.: *See—*
  Dolny, Gary M.; and Goodman, Lawrence A., 4,641,164, Cl. 357-23.400.
  Dolny, Gary M.; and Goodman, Lawrence A., 4,700,460, Cl. 437-81.000.
  Goodman, Alvin M.; Goodman, Lawrence A.; Russell, John P.; and Robinson, Paul H., 4,684,413, Cl. 437-17.000.

Goodman, Michael G.; and Weigle, William O., to Scripps Clinic and Research Foundation. Modulation of animal cellular responses with compositions containing 8-substituted guanine derivatives. 4,643,992, 2-17-87, Cl. 514-45.000.

Goodman, Murray; Marr-Leisy, Debra; Rosenkranz, Roberto P.; Melmon, Kenneth L.; and Verlander, Michael S., to University of California, The Regents of the. Derivatives of β-adrenergic antagonists. 4,687,873, 8-18-87, Cl. 560-28.000.

Goodman, Richard L.: *See—*
  Roehr, William H., Jr.; and Goodman, Richard L., 4,715,520, Cl. 227-19.000.

Goodman, Robert M., Jr., to Ellison, Pioneer Division. Detachable center brace apparatus for loom harness. 4,658,864, 4-21-87, C 139-91.000.

Goodman, Robert W., to Data General Corporation. Video contr section for a data processing system. 4,701,865, 10-20-87, C 364-521.000.

Goodman, Steve F.: *See—*
  Pettinga, Frederic R.; and Goodman, Steve F., 4,679,368, C 52-36.000.

Goodman, Walter H., to UOP Inc. Process for separating maltose fro mixtures of maltose, glucose and other saccharides. 4,707,19 11-17-87, Cl. 127-46.200.

Goodman, William, to Versatube Corporation. Method of making a embossed panel door. 4,643,787, 2-17-87, Cl. 156-196.000.

Goodman, William. Potter's wheel with rotating extruder. 4,702,92 10-27-87, Cl. 425-459.000.

Goodman, William H., Jr.; Harm, Alson R.; Kock, Ronald W.; an Reiboldt, Howard N., to Procter & Gamble Company, The. Devic and method for conveying and orienting randomized circular product-carrying pucks. 4,664,248, 5-12-87, Cl. 198-394.000.

Goodman, William H., Jr.: *See—*
  Benecke, Arnold G.; Benson, Douglas H.; Goodman, William H. Jr.; and Van Coney, Robert H., 4,671,432, Cl. 222-386.000.

Goodman, William R.; Mayfield, Richard B.; Tawshunsky, Ted; an Zardiackas, Fredrick L., to Tandem Computers Incorporated. Communications method. 4,646,300, 2-24-87, Cl. 371-33.000.

Goodman, William R.; and Koehig, Kenneth G., to Tandem Compute Incorporated. Fault protection flip flop. 4,651,323, 3-17-87, C 371-60.000.

Goodman, William R., to Tandem Computers Incorporated. Input-output multiplexer-demultiplexer communications channel. 4,667,2 5-19-87, Cl. 370-80.000.

Goodnow, Ronald F.; and Reid, Robert A., to Thermo Electron-We Systems, Inc. Doctoring apparatus. 4,691,406, 9-8-87, Cl. 15-256.5

Goodnow, Ronald F.: *See—*
  Dunlap, Harold E.; and Goodnow, Ronald F., 4,665,859, C 118-126.000.

Goodrich, Earl R., II: *See—*
  Eccleston, Larry; Cook, James C., II; and Goodrich, Earl R., I 4,634,975, Cl. 324-232.000.
  Eccleston, Larry; Goodrich, Earl R., II; and Swasdee, Man 4,668,942, Cl. 340-551.000.

Goodrich, Gerald O.; Tehranian, Michael M.; and White, Donald A., t Digital Equipment Corporation. System for altering data transmission modes. 4,701,841, 10-20-87, Cl. 364-200.000.

Goodrich, Joel L.: *See—*
  Armstrong, Albert L.; and Goodrich, Joel L., 4,692,998, C 437-225.000.

Goodrich, Judson E., to Chevron Research Company. Method fo producing industrial asphalts. 4,639,307, 1-27-87, Cl. 208-44.000.

Goodrich, Judson E., to Chevron Research Company. Method fo producing industrial asphalts without air-blowing using an organ sulfonic acid. 4,713,117, 12-15-87, Cl. 106-273.00R.

Goodrich, Robert R.; and Sepe, Edmund N., to American Telepho and Telegraph Company; AT&T Information Systems Inc.; an AT&T Technologies, Inc. Modular telephone jack. 4,699,44 10-13-87, Cl. 439-188.000.

Goodrich, Stanley R., Jr.: *See—*
  Darling, Richard S.; Goodrich, Stanley R., Jr.; and E[illegible]hause Alan D., 4,673,051, Cl. 180-132.000.

Goodridge, Francis; Plimley, Raymond E.; and Leetham, [illegible]ert P., t National Research Development Corporation. Purifying mixe cation electrolyte. 4,670,116, 6-2-87, Cl. 204-130.000.

Goodridge, Paul A.; Bilen, Roger J.; Kaveh, Farrokh; and Lin, Davi C. K., to Owens-Corning Fiberglas Corporation. Internal blower fo expanding cylindrical veil of mineral fibers and method of using same 4,670,034, 6-2-87, Cl. 65-4.400.

Goodridge, Paul A.: *See—*
  Miller, Charles H.; Takeuchi, Kunihiko; and Goodridge, Paul A. 4,678,490, Cl. 65-14.000.

Goodridge, Raymond A. L., to Stothert & Pitt PLC. Pumps. 4,684,33 8-4-87, Cl. 418-189.000.

Goodsmith, Dale H., to Multifastener Corporation. Verification prob 4,649,753, 3-17-87, Cl. 73-865.800.

Goodsmith, Dale H., to Multifastener Corporation. Quick disconnect coupler. 4,691,429, 9-8-87, Cl. 29-432.000.

Goodsmith, James E.: *See—*
  Smith, D. Frederick; and Goodsmith, James E., 4,710,079, C 409-234.000.

Goodson, David R. Low voltage continuity tester. 4,683,422, 7-28-8 Cl. 324-133.000.

Goodson, Kenneth W. Airfoil. 4,671,473, 6-9-87, Cl. 244-199.000.

Goodson, Larry E.: *See—*
  Rumbolt, Robin B.; McIntyre, William R.; and Goodson, Larry E. 4,703,359, Cl. 358-194.100.

Goodspeed, Byron L. Apparatus for automatically cleaning smel spouts of a chemical recovery furnace. 4,706,324, 11-17-87, C 15-246.000.

Goodstine, Stephen L.: *See—*
  Barto, Ronald J.; Goodstine, Stephen L.; and Noto, Frank A. 4,709,664, Cl. 122-379.000.

Goodway Tools Corporation: *See—*
  Grimsley, Arvid K., 4,651,497, Cl. 53-101.000.

Goodwin, Allen W. Acoustic energy, real-time spectrum analyze 4,692,117, 9-8-87, Cl. 434-185.000.

Goodwin, Bryce S., Jr., to Hewlett-Packard Company. Logic analyzer using source program or other user defined symbols in the trace specification and the trace listing. 4,636,940, 1-13-87, Cl. 364-200.000.

Goodwin, David A.; and Meares, Claude F., to Leland Stanford Junior University, The Board of Trustees of the. Reagent and method for radioimaging leukocytes. 4,634,586, 1-6-87, Cl. 424-1.100.

Goodwin, David S.: *See—*

Dodds, Robert E.; Goodwin, David S.; and Patel, Himanshu M., 4,707,426, Cl. 430-25.000.

Goodwin, Eber L.; and Zeigler, James E., to AM International, Inc. Sheet stacking device. 4,667,949, 5-26-87, Cl. 271-207.000.

Goodwin, Eber L., to AM International, Inc. Ink fountain preparation station and interchangeable ink fountain system. 4,677,912, 7-7-87, Cl. 101-365.000.

Goodwin, Frank E.: *See—*

Marciniak, Hans C.; and Goodwin, Frank E., 4,677,635, Cl. 372-55.000.

Goodwin, Graham C.: *See—*

Teoh, Eam K.; Goodwin, Graham C.; and Edwards, William J., 4,691,547, Cl. 72-16.000.

Goodwin, Joel G.: *See—*

Do, Phuc K.; Goodwin, Joel G.; and Krull, Nicholas J., 4,680,524, Cl. 318-696.000.

Goodwin, John, to R. Goodwin International Ltd. Agitating particulate solids. 4,650,342, 3-17-87, Cl. 366-264.000.

Goodwin, John C., to Northern Telecom Limited. Laser-fiber positioning method. 4,679,908, 7-14-87, Cl. 350-320.000.

Goodwin, Laverne D.: *See—*

Eder, Ernest J.; and Goodwin, Laverne D., 4,713,957, Cl. 72-319.000.

Goodwin, Paul G.; Silverman, Michael B.; and Beck, George A., to RCA Corporation. Spacecraft autonomous redundancy control. 4,654,846, 3-31-87, Cl. 371-8.000.

Goodwin, Peter A., to Prime Computer, Inc. Method and apparatus for detection of AC power failure conditions. 4,642,616, 2-10-87, Cl. 340-654.000.

Goodwin, Peter A., to Prime Computer, Inc. Anticipatory power failure detection apparatus and method. 4,658,204, 4-14-87, Cl. 323-285.000.

Goodwin, Peter J., to Techni Multidiscipline Services (Proprietary) Limited. Barge tipper. 4,659,275, 4-21-87, Cl. 414-137.000.

Goodwin, R. Wendell, to Sangamo Weston, Inc. Method and apparatus for detecting tampering with a meter having an encoded register display. 4,665,359, 5-12-87, Cl. 324-110.000.

Goodwin, Richard S., to R. Goodwin International Ltd. Wafer check valves. 4,694,853, 9-22-87, Cl. 137-512.100.

Goodwin, Robert F., to Foss Manufacturing Co., Inc. Moldable latex impregnated textile material. 4,673,616, 6-16-87, Cl. 428-289.000.

Goodwin, Roy S., to Clevite Industries Inc. Apparatus for making a forged metal article. 4,712,411, 12-15-87, Cl. 72-344.000.

Goodwin, Vernon L., to Support Systems International, Inc. Fluidized patient support apparatus. 4,637,083, 1-20-87, Cl. 5-453.000.

Goodwin, Vernon L., to Support Systems International, Inc. Fluidized patient support system with side rail assembly. 4,672,699, 6-16-87, Cl. 5-430.000.

Goodworth, John P., II, to Donn Incorporated. Suspension ceiling system combining snap-up pans and lay-in panels. 4,640,064, 2-3-87, Cl. 52-145.000.

Goody Products, Inc.: *See—*

Goldberg, Stanley, 4,656,591, Cl. 364-478.000.

Goldberg, Stanley, 4,672,553, Cl. 364-478.000.

Goodyear Aerospace Corporation: *See—*

Elam, Paul A.; and Keller, Jack W., 4,683,930, Cl. 152-410.000.

Frank, Richard J.; and Smith, Donald H., 4,635,695, Cl. 152-410.000.

Huber, Joseph C., Jr.; and Nagabhushan, Bellur L., 4,676,167, Cl. 102-393.000.

Leavy, Wayne P., 4,652,238, Cl. 434-44.000.

Liggett, Paul E., 4,655,398, Cl. 239-588.000.

Liggett, Paul E.; and Braun, David L., 4,668,535, Cl. 427-230.000.

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Moseley, Douglas D., 4,658,936, Cl. 188-1.110.

Goodyear, Nelson. Office organizer for desks. 4,700,829, 10-20-87, Cl. 206-214.000.

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Becht, Cletus A.; Cressman, Peter M.; Head, William J.; and White, John R., 4,689,106, Cl. 156-406.200.

Bell, Anthony J., 4,645,809, Cl. 526-140.000.

Bennett, Ronald Q.; Smith, Donald E.; and Muse, Joel, Jr., 4,670,609, Cl. 568-768.000.

Berger, Robert E.; Crossman, Richard L.; and Conley, William F., 4,682,640, Cl. 152-405.000

Bergomi, Angelo; and Tazuma, James J., 4,656,266, Cl. 544-85.000.

Bergomi, Angelo; and Kuczkowski, Joseph A., 4,663,455, Cl. 544-85.000.

Bonko, Mark L.; and Lopp, Loran C., Jr., 4,711,283, Cl. 152-209.00B.

Botzman, Thomas J., 4,668,728, Cl. 524-394.000.

Botzman, Thomas J., 4,670,496, Cl. 524-364.000.

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Brandyberry, Dennis R.; and Rye, Grover W., 4,650,531, Cl. 156-166.000.

Brayer, Randall R., 4,702,292, Cl. 152-209.00R.

Brown, Donald L.; Weissert, James T.; Bhakuni, Roop S.; and Rogowski, Gregory S., 4,654,253, Cl. 428-229.000.

Burg, Gary R.; Prewitt, William T.; and Vandyke, James A., 4,667,519, Cl. 73-815.000.

Callander, Douglas D.; and Massey, Freddie L., 4,654,399, Cl. 524-720.000.

Candle, Richard D., 4,680,071, Cl. 156-218.000.

Candle, Richard D., 4,709,806, Cl. 198-819.000.

Chawla, Surendra K., 4,682,892, Cl. 356-353.000.

Cherveny, Vincent J.; Miller, Frederick W., III; Beard, Richard C.; Waibel, Terry J.; and Scherer, Jean C., 4,649,976, Cl. 152-209.00R.

Cohen, Albert; Lamock, Andre ; and Villamizar, William J., 4,667,721, Cl. 152-543.000.

Colvin, Howard A.; Cottman, Kirkwood S.; and Parker, Dane K., 4,714,772, Cl. 558-240.000.

Comper, Louis F.; and Scheiderich, Robert F., 4,636,407, Cl. 427-133.000.

Curtiss, Walter W.; and Lynch, John E., 4,693,290, Cl. 152-430.000

Downey, Raymond E., 4,634,562, Cl. 264-22.000.

Dupommier, Jean M., 4,634,489, Cl. 156-403.000.

Eisenzimmer, George W.; and Schisler, Robert C., 4,688,605, Cl. 138-130.000.

Felten, Gilbert, 4,667,574, Cl. 92-85.00A.

Fontaine, Jean F. L., 4,667,718, Cl. 152-209.00R.

Fresch, Henry D.; and Hurt, Steven E., 4,715,107, Cl. 29-436.000.

Gasowski, Chester J.; Loeffler, Ronald L.; Musteric, Joseph T.; Springford, Richard H.; and Toth, Robert L., Jr., 4,635,696, Cl. 152-528.000.

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Hsu, Wen-Liang, 4,701,561, Cl. 568-492.000.

Jalics, George, 4,647,634, Cl. 526-174.000.

Johnson, David W.; and Tyler, Keith A., 4,634,409, Cl. 474-152.000.

Klepper, Guy E. D.; Kornelis, Hendrik; and Alie, Jean-Claude, 4,667,722, Cl. 152-543.000.

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Landers, Samuel P., 4,700,762, Cl. 152-209.00R.

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Mate, Robert D.; Parker, Dane K.; and Blackwell, James C., 4,701,507, Cl. 526-208.000.

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Peterson, Paul J., 4,656,910, Cl. 83-875.000.

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Portalupi, Steven J.; and Riggs, Robert S., 4,683,020, Cl. 156-403.000.

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Strader, Don S., 4,679,443, Cl. 73-826.000.

Sturm, Budd H., 4,683,332, Cl. 564-414.000.

Sturm, Budd H.; and Kuczkowski, Joseph A., 4,707,300, Cl. 252-404.000.

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Tung, William C. T.; Wendling, Paul R.; and Brent, James W., Jr., 4,644,049, Cl. 528-272.000.

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Goorsky, Mark S.; Koch, Mark B.; and Murray, Richard C., Jr., to Spectramed, Inc. Multiple sensor bundle. 4,706,677, 11-17-87, Cl. 128-634.000.

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Padszun, Wolfgang; Witte, Josef; Suling, Carlhans; and Goossens, John, 4,665,011, Cl. 430-114.000.

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Syvarth, Anne S.; Gordin, Harvey H.; Early, Paul D., Jr.; Need Kathy A.; and Perfetti, Thomas A., 4,711,255, Cl. 131-330.0

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Gordon, Alan J.; Billington, Donald G.; Evans, Robert; and Bowma David J., to Shandon Southern Products Limited. Centrifugatio 4,705,630, 11-10-87, Cl. 210-361.000.

Gordon, Alastair. Communication network. 4,713,837, 12-15-87, C 379-93.000.

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Barlow, Gordon A.; and Krutsch, John R., 4,674,585, C 180-14.100.

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Barlow, Gordon A., 4,714,249, Cl. 273-1.00G.

Gordon, Bernard L., to Artificial Lift Systems, Inc. Controller fo plunger lift system for oil and gas wells. 4,664,602, 5-12-87, C 417-56.000.

Gordon, Bernard M.: *See—*

Dobbs, John M.; and Gordon, Bernard M., 4,677,554, C 364-414.000.

Gordon, Bruce S., to Barnes Engineering Company. Laser shield an method of making same. 4,657,345, 4-14-87, Cl. 350-311.000.

Gordon, Charles, to Kal Kan Foods, Inc. Animal litter and method preparation. 4,641,605, 2-10-87, Cl. 119-1.000.

Gordon, Colin R.: *See—*

Best, Michael J. A.; Jones, Richard H.; Hynes, Joseph H.; Pon Richard J.; and Gordon, Colin R., 4,695,190, Cl. 405-169.00

Gordon, David L.: *See—*

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Gordon, Eric M., to E. R. Squibb & Sons, Inc. Acylaminoalkano urethanes or thiourethanes. 4,636,522, 1-13-87, Cl. 514-423.000.

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Gordon, Eric M.: *See—*

Delaney, Norma G.; and Gordon, Eric M., 4,670,541, C 530-331.000.

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Varma, Ravi K.; Gordon, Eric M.; and Simpkins, Ligaya M., 4,673,685, Cl. 514-333.000.

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Varma, Ravi K.; and Gordon, Eric M., 4,711,900, Cl. 514-351.000.

Weller, Harold N., III; and Gordon, Eric M., 4,638,010, Cl. 514-423.000.

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Gordon, Eugene I., to AMP Incorporated. Channel add/drop filter-coupler. 4,673,270, 6-16-87, Cl. 350-96.150.

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Gordon, Gerald A., to Continental Fibre Drum, Inc. Inflatable elevator for covering and banding of fibre drums. 4,666,041, 5-19-87, Cl. 206-522.000.

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Gordon, Harry W., to Schmid Laboratories. Method for treating hypercholesterolemia with cryptocidin. 4,692,334, 9-8-87, Cl. 424-122.000.

Gordon, Herman B.; and Carey, Bernard J., to Rogers Corporation. Solderless connection technique between data/servo flex circuits and magnetic disc heads. 4,645,280, 2-24-87, Cl. 339-17.00F.

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Gordon, Jerry D., to Henny Penny Corporation. Pressure smoker. 4,686,896, 8-18-87, Cl. 99-482.000.

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Gordon, John H. Expanding mandrel. 4,643,658, 2-17-87, Cl. 425-110.000.

Gordon Johnson Japan Co., Ltd.: *See—*

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Gordon, Lance K., to Connaught Laboratories, Inc. Haemophilus influenzae B polysaccharide-diptheria toxoid conjugate vaccine. 4,644,059, 2-17-87, Cl. 536-1.100.

Gordon, Larry R. Droplet injection system for evaporative cooling of animals. 4,693,852, 9-15-87, Cl. 261-30.000.

Gordon, Linda A.: *See—*

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Gordon, Lucas S.: *See—*

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Gordon, Mark G. Blood sampler device. 4,673,386, 6-16-87, Cl. 604-48.000.

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Gordon, Paul F.: *See—*

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Gordon, Philip J.: *See—*

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Gordon, Richard E., to Bar Ilan University. Method for securing a microsieve to a support member. 4,675,065, 6-23-87, Cl. 156-272.800.

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Gordon, Robert B., to RCA Corporation. Cover for a semiconductor package. 4,714,981, 12-22-87, Cl. 361-400.000.

Gordon, Robert L.; and Kalberer, Roderick W., to International Paper Company. Pour spout for containers. 4,705,197, 11-10-87, Cl. 206-604.000.

Gordon, Robert L.: *See—*

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Gordon, Roger G. Single paper dispenser. 4,667,803, 5-26-87, Cl. 194-248.000.

Gordon, Ronald O.: *See—*

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Gordon, Roy. Photoelectrolysis method and means. 4,650,554, 3-17-87, Cl. 204-129.000.

Gordon, Roy G. Protective overcoat of titanium nitride films. 4,690,871, 9-1-87, Cl. 428-432.000.

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Tretter, Steven A.; Redick, Robert P.; Stuart, Richard L.; Treynor, Paul E.; and Gordon-Smith, David, 4,646,305, Cl. 371-43.000.

Gordon, Stanley H.: *See—*

Kielbania, Daniel M.; and Gordon, Stanley H., 4,675,495, Cl. 219-97.000.

Gordon, Stephen S., to United States of America, National Aeronautics and Space Administration. Self-clamping arc light reflector for welding torch. 4,682,006, 7-21-87, Cl. 219-124.340.

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Babcock, Stephen G.; Dyer, Gerald E.; and Gordon, Stephen S., 4,698,484, Cl. 219-130.010.

Gordon, Theodore H.: *See—*

Barteck, Werner W.; and Gordon, Theodore H., 4,688,752, Cl. 249-85.000.

Gordon, Tim H.; and Zabrowsky, Mark, to Becton, Dickinson and Company. Cold application and compressive bandage. 4,669,476, 6-2-87, Cl. 128-399.000.

Gordon, Timothy M.; Stewart, Rodger L.; and Wellington, Daniel J., to Cobe Laboratories, Inc. Perfusion device having a plurality of separately accessible membrane compartments. 4,663,125, 5-5-87, Cl. 422-48.000.

Gordon, Tsvi J.; and Sorek, Shmuel, to State of Israel, Ministry of Defence, Israel Military Industries, The. Rifle launched ammunition for mob dispersion. 4,656,946, 4-14-87, Cl. 102-438.000.

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Gordon, Walter H.: *See—*

Ryckman, William D.; and Gordon, Walter H., 4,684,788, Cl. 219-413.000.

Gordon, William E.: *See—*

Loren, Norman S.; and Gordon, William E., 4,635,984, Cl. 293-120.000.

Loren, Norman S.; and Gordon, William E., 4,652,031, Cl. 293-120.000.

Gordon, William R.; Nicholson, Peter N.; and Six, John E., to Honeywell Inc. Detector dewar assembly. 4,645,931, 2-24-87, Cl. 250-352.000.

Gore, Charles E.; and Vierthaler, Joseph W., Jr., to Truswal Systems Corporation. Fire protective system and method for a support structure. 4,669,243, 6-2-87, Cl. 52-696.000.

Gore, John G., to Sawtek, Inc. Environmental control apparatus for electrical circuit elements. 4,684,783, 8-4-87, Cl. 219-210.000.

Gore, Mack, Jr., to Leonard Olguin. Trachea suction tube. 4,662,367, 5-5-87, Cl. 128-202.280.

Gore & Storrie Limited: *See—*

Crawford, George V.; and DaSilva, Paul F., 4,676,906, Cl. 210-603.000.

Gore, Trevor A.: *See—*

Atack, Philip A.; Gore, Trevor A.; and Masterman, Michael, 4,671,091, Cl. 72-45.000.

Gorelick, Donald E.: *See—*

Ebner, Peter R.; Ebner, Emanual C., Jr.; Shaw, John H.; Miller, John G.; and Gorelick, Donald E., 4,691,987, Cl. 350-96.230.

Goren, Amos; and Zucker, Yehuda, to Zuck-OR, Ltd. Theft prevention apparatus. 4,653,605, 3-31-87, Cl. 180-287.000.

Goren, Sidney B.: *See—*

Cain, Gary L.; and Goren, Sidney B., 4,674,870, Cl. 356-4.000.

Gorges, Frederick J., to Boeing Company, The. Ball support assembly. 4,696,583, 9-29-87, Cl. 384-49.000.

Gorgon, Georg, to Karl Suss KG, Prazisionsgerate fur Wissenschaft und Industrie GmbH & Co. Device for the automatic focussing of optical instruments with complementary measuring and detecting diaphragms. 4,686,360, 8-11-87, Cl. 250-201.000.

Gorgone, Patricia A.: *See—*

Denicola, Patricia J.; and Gorgone, Patricia A., 4,688,270, Cl. 2-102.000.

Gorgone, Robert L., to Ardac, Inc. Multi-denomination currency validator employing a plural selectively-patterned reticle. 4,645,936, 2-24-87, Cl. 250-556.000.

Goria, Luigi. Footwear with detachable visibility aids. 4,712,319, 12-15-87, Cl. 36-137.000.

Gorina, Nelli B.: *See—*

Savitsky, Evgeny M.; Goikhman, Mikhail S.; Khudyk, Petr M.; Chepkasov, Valery V.; Sulyagin, Valentin V.; Polyakova, Viktoria P.; Shatinsky, Viktor F.; Gorina, Nelli B.; and Rudkovsky, Evgeny M., 4,654,237, Cl. 427-431.000.

Goring, Cleve A. I.: *See—*

Rogers, Richard B.; and Goring, Cleve A. I., 4,684,394, Cl. 71-90.000.

Rogers, Richard B.; and Goring, Cleve A. I., 4,685,959, Cl. 71-94.000.

Goring Kerr Limited: *See—*

Kerr, Bruce G., 4,659,989, Cl. 324-233.000.

Goris, Gregg A.; and Krasnov, Igor, to Vetco Gray Inc. Easy break-out tool joint and method. 4,658,915, 4-21-87, Cl. 175-57.000.

Goris, Gregg A.; Pettit, John R.; and Rhodes, Raymond L., to Vetco Gray Inc. Casing hanger running tool. 4,674,576. 6-23-87, Cl. 166-382.000.

Goris, Gregg A., to Vetco Gray Inc. Remote guideline connector. 4,708,524, 11-24-87, Cl. 405-169.000.

Gorishnyakov, Alexei I.: *See—*
Kuchuk-Yatsenko, Sergei I.; Krivenko, Valery G.; Gorishnyakov, Alexei I.; Bogorsky, Mikhail V.; and Lazebny, Ivan L., 4,686,346, Cl. 219-110.000.

Gorissen, Erich, to Vits Maschinenbau GmbH. Web tension control device provided at a vertical drier for cloth web. 4,663,862, 5-12-87, Cl. 34-52.000.

Gorka, Robert J.: *See—*
Biletch, Harry A.; Di Manno, Richard A.; and Gorka, Robert J., 4,680,337, Cl. 525-53.000.

Gorka, Timothy B. Air flow controlling device. 4,703,970, 11-3-87, Cl. 296-1.00S.

Gorling, Karl: *See—*
Bostrom, Olle; and Gorling, Karl, 4,648,900, Cl. 75-3.000.

Gorlitzer, Klaus; Bartke, Ulrich; Goldmann, Siegfried; Schramm, Matthias; Thomas, Gunter; and Gross, Rainer, to Bayer Aktiengesellschaft. Circulation-active hydroxy-tetra-hydropyridinelactones. 4,647,568, 3-3-87, Cl. 514-302.000.

Gorman, Eileen G.: *See—*
Craig, Alan R.; and Gorman, Eileen G., 4,703,018, Cl. 436-518.000.

Gorman, Jeremy W. Modification for heat exchangers incorporating a helically shaped blade and pin shaped support member. 4,641,705, 2-10-87, Cl. 165-85.000.

Gorman, John P.: *See—*
Covington, Edward J.; Cridland, John E.; and Gorman, John P., 4,695,768, Cl. 315-73.000.

Gorman, Mark D., to Armco Inc. High temperature ferritic steel. 4,640,722, 2-3-87, Cl. 148-325.000.

Gorman, Michael J.; and McClellan, William R., to General Motors Corporation. Manual transmission shift control mechanism having a reverse inhibitor. 4,638,678, 1-27-87, Cl. 74-476.000.

Gorman, Robert H., to American Robot Corporation. Industrial robot. 4,636,138, 1-13-87, Cl. 414-735.000.

Gorman, Robert H., to American Cimflex Corporation. Outer arm assembly for industrial robot. 4,645,409, 2-24-87, Cl. 414-735.000.

Gorman, Robert H., to American Cimflex Corporation. Industrial robot. 4,671,732, 6-9-87, Cl. 414-735.000.

Gorman, Walter T. Liquid containment and leak detection system. 4,673,926, 6-16-87, Cl. 340-605.000.

Gormley, Robert J.: *See—*
Rao, V. Udaya S.; and Gormley, Robert J., 4,659,743, Cl. 518-715.000.

Gormus, Bobby J., to Research Corporation. Monitoring therapy results in body samples of receptor cells. 4,693,967, 9-15-87, Cl. 435-7.000.

Gornati, Silvano: *See—*
Coccetti, Silvano; Viscardi, Roberto; and Gornati, Silvano, 4,672,332, Cl. 331-111.000.

Gorner, Horst; Furstwangler, Walter; and Usbeck, Walter, to Mannesmann Kienzle GmbH. Apparatus for separating documents. 4,695,048, 9-22-87, Cl. 271-122.000.

Gorney, Moshe, to Naan Mechanical Works. Vortex dripper. 4,655,397, 4-7-87, Cl. 239-542.000.

Gorney, Moshe; and Dinur, Eldad, to Naan Mechanical Works. Drip irrigation apparatus. 4,687,143, 8-18-87, Cl. 239-542.000.

Gornick, Robert F.; and Zdanys, John, Jr., to CTS Corporation. Miniature position encoder with radially non-aligned light emitters and detectors. 4,654,522, 3-31-87, Cl. 250-231.0SE.

Gornick, Robert F.: *See—*
Nespor, John F.; Gornick, Robert F.; and Kwor, Richard Y., 4,703,557, Cl. 29-620.000.

Gorno-Altaisky Gosudarstvenny Pedagogichesky Institut: *See—*
Lebedev, Jury A., 4,690,460, Cl. 299-21.000.

Gornowicz, Gerald A.; and Lee, Chi-Long, to Dow Corning Corporation. Novel aminohydrocarbyl-substituted ketoximosilanes. 4,705,877, 11-10-87, Cl. 556-422.000.

Gornowicz, Gerald A.; and Lee, Chi-Long, to Dow Corning Corporation. Method for preparing aminohydrocarbyl-substituted ketoximosilanes. 4,705,878, 11-10-87, Cl. 556-422.000.

Goro S.A.: *See—*
Le Houerou, Gilbert; Bouchez, Guy; Preynat, Pierre; and Villain, Charles, 4,646,433, Cl. 29-755.000.
Schick, Jean-Francois, 4,641,398, Cl. 24-33.00R.
Schick, Jean-Francois, 4,671,403, Cl. 198-844.000.

Gorog nee Privitzer, Katalin; Bodnar, Laszlo ; Dudar, Erzsebet; Kocsis nee Bagi, Maria; Gaal, Sandor; Tasnadi, Marta; Egyhazi nee Csizmadia, Eva; Varga, Valeria M.; Kajati, Istvan; Kis, Gyorgy; Molnar, Janos; Toth, Bertalan; Cserhati nee Botka, Ilona; Kaptas, Tibor; and Csete, Sandor, to Borsodi Vegyi Kombinat. Phosphoric acid monoester salts, process for their preparation, and fungicidal compositions containing them as active ingredient. 4,661,477, 4-28-87, Cl. 514-76.000.

Gorog nee Privitzer, Katalin; Bodnar, Laszlo; Dudar, Erzsebet; Kocsis nee Bagi, Maria; Gaal, Sandor; Tasnadi, Marta; Egyhazi nee Csizmadia, Eva; Varga, Valeria M.; Kajati, Istvan; Kis, Gyorgy; Molnar, Janos; Toth, Bertalan; Cserhati nee Botka, Ilona; Kaptas, Tibor; and Csete, Sandor, to Borsodi Vegyi Kombinat. Phosphoric acid monester salts. 4,675,431, 6-23-87, Cl. 558-218.000.

Gorog, Sandor: *See—*
Toth, Edit; Torley, Jozsef; Palosi, Eva; Szeberenyi, Szabolc Szporny, Laszlo; Gorog, Sandor; and Hajdu, Istvan, 4,645,77 Cl. 514-317.000.
Toth, Edit; Torley, Jozsef; Fekete, Gyorgy; Szporny, Laszl Vereczkey, Laszlo; Palosi, Eva; Klebovich, Imre; Vittay, Pa Gorog, Sandor; and Hajdu, Istvan, 4,645,779, Cl. 514-648.00

Gorokhovsky, Alexandr M.; and Fomichev, Leonid F., to Nauchno Issledovatelsky Institut Tekhnologii Avtomobilnoi Promyshlennos Niiavtoprom. Mill for hot rolling of bevel gears. 4,644,771, 2-24-8 Cl. 72-69.000.

Gorokhovsky, Alexandr M.: *See—*
Fomichev, Leonid F.; Gorokhovsky, Alexandr M.; and Romashahin, Nikolai A., 4,671,092, Cl. 72-102.000.

Gorondy, Emery J., to Du Pont de Nemours, E. I., and Compan Electrostatic printing process. 4,636,449, 1-13-87, Cl. 430-39.000

Goronszy, Mervyn C., to Transfield, Incorporated. Biological treatment of wastewater. 4,663,044, 5-5-87, Cl. 210-610.000.

Goronszy, Mervyn C.; and Olavarria, Raul, to Transfield, Inc. Weir fo waste water treatment systems. 4,693,821, 9-15-87, Cl. 210-241.00

Gorrell, Donald B., to Dow Chemical Company, The. Drive screw pile. 4,650,372, 3-17-87, Cl. 405-232.000.

Gorrell, Walter T.: *See—*
Eckert, Robert L.; and Gorrell, Walter T., 4,634,076, C 242-118.700.

Gorrieri, Giordano: *See—*
Mattei, Riccardo; Gorrierl, Giordano; and Filippini, Gualtier 4,693,051, Cl. 53-148.000.

Gors, Heinrich C.: *See—*
Jansons, Viktors; Gors, Heinrich C.; Moore, Stephen; Reame Robert H.; and Becker, Paul, 4,698,393, Cl. 525-242.000.
Jansons, Viktors; and Gors, Heinrich C., 4,709,007, Cl. 528-222.00

Gorski, Anthony J.: *See—*
Hino, Toshiyuki; and Gorski, Anthony J., 4,686,833, Cl. 62-68.00

Gorski, George L.: *See—*
Zamzow, Donald D.; and Gorski, George L., 4,712,511, Cl. 11 51.00R.

Gorski, Robert A.: *See—*
Connon, Helen A.; Gorski, Robert A.; Kenyon, William G.; an Yokozeki, Akimichi, 4,715,900, Cl. 134-31.000.

Gorsuch, Roger K.; Bell, Gordon D.; Henke, Mitchell C.; Wit Michelle; Bratton, Ronald E.; and Lee, Effie J., to Lincoln Foodservice Products, Inc. Grooved baking pan. 4,676,151, 6-30-87, C 99-450.000.

Gorter, Frederik W.; Morel, Jean-Paul G. R.; and Ruigrok, Jacobus M., to U.S. Philips Corporation. Magnetic write head with smoot frequency response. 4,670,807, 6-2-87, Cl. 360-120.000.

Gorter, Helen R.; Moran, Lyle E.; Robertson, Warren D.; and Savar Shaunalea, to Exxon Research and Engineering Company. Asphalti composition. 4,711,672, 12-8-87, Cl. 106-281.00R.

Gorton, Lanny A.: *See—*
McIntyre, John; and Gorton, Lanny A., 4,646,781, Cl. 137-512.40
Pelmulder, John P.; Gorton, Lanny A.; Guleserian, Armen J.; an Livingston, John H., 4,712,583, Cl. 137-852.000.

Gortsema, Frank P.; and Lok, Brent M. T., to Union Carbide Corporation. Process for the halogen modification of aluminophosphat molecular sieves and a product so produced. 4,684,511, 8-4-87, C 423-305.000.

Gortsema, Frank P.: *See—*
Pellet, Regis J.; Gortsema, Frank P.; Long, Gary N.; and Rab Jule A., 4,686,029, Cl. 208-111.000.

Gortz, Norman, to Infusion Systems Corporation. Pressurized flu dispenser. 4,702,397, 10-27-87, Cl. 222-211.000.

Gorun, Viktor T.: *See—*
Lidorenko, Nikolai S.; Gorun, Viktor T.; Muchnik, Grigory F Karichev, Zia R.; Shteinberg, Alexandr N.; Lev, Mikhail B Moiseev, Viktor I.; Schegolev, Igor S.; Ilin, Vladimir M.; an Smirnov, Igor I., 4,666,668, Cl. 422-48.000.

Gorz, Richard A.: *See—*
Gilbert, Zachary R.; and Gorz, Richard A., 4,704,849, C 56-17.500.

Gorzegno, Walter P.; and Abdulally, Iqbal F., to Foster Wheele Energy Corporation. Segmented fluidized bed combustion method 4,694,758, 9-22-87, Cl. 110-347.000.

Gosadarstvenny Proektno-Konstruktorsky I Experimentalry Institu Agolnogo Mashinostroenia: *See—*
Masovich, Felix Z.; Khorin, Vladimir N.; Golubeva, Svetlana M and Shishlov, Vyacheslav I., 4,633,723, Cl. 74-141.500.

Goschke, Richard, to Ciba-Geigy Corporation. Pyridazinones, pharmaceutical preparations containing these compounds, and the us thereof. 4,654,340, 3-31-87, Cl. 514-234.000.

Goschke, Richard, to Ciba-Geigy Corporation. Pyridazinones, and pharmaceutical preparations thereof. 4,704,391, 11-3-87, C 514-234.000.

Goschke, Richard: *See—*
Gainer, James; and Goschke, Richard, 4,699,908, Cl. 514-234.00

Gose, Horst; and Papiernik, Wolfgang, to Siemens Aktiengesellschaf Method and apparatus for reducing track errors in computer controlled machine tools or industrial robots. 4,707,780, 11-17-87, C 364-176.000.

Goseberg, Walter; and Pollack, Alfred, to Telefunken Fernseh und Rundfunk GmbH. Coil with magnetisable rod core. 4,680,56 7-14-87, Cl. 336-181.000.

Goshiki, Keigo: *See—*
Hara, Tetsuya; Hakata, Toshiyuki; and Goshiki, Keigo, 4,654,38 Cl. 524-107.000.

- Goshima, Takahiro: *See—*
  - Hattori, Yoshiyuki; Nomura, Ken; Goshima, Takahiro; and Tanaka, Hitoshi, 4,705,492, Cl. 474-49.000.
- Goshima, Takeshi; Nozaki, Mineo; and Fukui, Hiroshi, to Canon Kabushiki Kaisha. Dot printing method and apparatus. 4,675,692, 6-23-87, Cl. 346-1.100.
- Goshow, Henry M. Shelf for hospital bed. 4,702,176, 10-27-87, Cl. 108-9.000.
- Gosiewski, Donald E.: *See—*
  - Briggs, Paul C.; and Gosiewski, Donald E., 4,714,730, Cl. 524-321.000.
- Goslowsky, Hans; Lewerenz, Hans-Joachim; Fiechter, Manuel S.; and Husemann, Karl-Dieter, to Hahn-Meitner-Institut Berlin GmbH. Solar cells based on $CuInS_2$. 4,687,881, 8-18-87, Cl. 136-255.000.
- Gosnell, Calvin B.: *See—*
  - Hawkins, Wallace H.; and Gosnell, Calvin B., 4,700,966, Cl. 280-432.000.
- Gospos, Georg: *See—*
  - Bartsch, Adalbert; Gospos, Georg; Kersten, Lars; and Bartsch, Arno W., 4,665,842, Cl. 110-244.000.
- Goss, Charles T., to Goss, Inc. Hot trowel device and method. 4,654,109, 3-31-87, Cl. 156-579.000.
- Goss, Clinton; Rosenberg, Richard; and Whyte, Peter, to Philon, Inc. Compilers using a universal intermediate language. 4,667,290, 5-19-87, Cl. 364-300.000.
- Goss, David C.: *See—*
  - Yagnik, Chandrakant M.; and Goss, David C., 4,645,906, Cl. 219-301.000.
- Goss, Gary J.; Moles, Robert G. H.; Hinrichs, Randall D.; and Holtey, Thomas O., to Honeywell Information Systems Inc. Digital decode logic for converting successive binary zero pulses having opposite polarity to a stream of data pulses. 4,651,329, 3-17-87, Cl. 375-94.000.
- Goss, Gary J.; Holtey, Thomas O.; and Siwik, James C., to Honeywell Information Systems Inc. Variable loadable character generator. 4,703,322, 10-27-87, Cl. 340-750.000.
- Goss, Gary J.: *See—*
  - Holtey, Thomas O.; Bruce, Kenneth E.; and Goss, Gary J., 4,683,466, Cl. 340-703.000.
  - Murray, Thomas L., Jr.; Stonier, James W.; Goss, Gary J.; and Holtey, Thomas O., 4,665,482, Cl. 364-200.000.
  - Stonier, James W.; Murray, Thomas L., Jr.; Goss, Gary J.; and Holtey, Thomas O., 4,665,481, Cl. 364-200.000.
- Goss, Inc.: *See—*
  - Goss, Charles T., 4,654,109, Cl. 156-579.000.
- Goss, Jack, to McNeilab, Inc. Disposable temperature probe for photoactivation patient treatment system. 4,705,498, 11-10-87, Cl. 604-6.000.
- Goss, John: *See—*
  - Dahlquist, John; Goss, John; and Wennerberg, Gunnar, 4,678,915, Cl. 250-358.100.
- Goss, Larry P.; Grosjean, Dennis F.; Sarka, Benjamin, Jr.; Kizirnis, Sigmund W.; and Ganguly, Biswa N., to United States of America, Air Force. Non-perturbing beam deflection system and method for high repetition rate temperature measurement of combustion flames. 4,655,608, 4-7-87, Cl. 374-119.000.
- Goss, Larry P.: *See—*
  - Ganguly, Biswa; Goss, Larry P.; Roquemore, William M.; and Trump, Darryl D., 4,679,934, Cl. 356-43.000.
- Goss, Raymond W., to Hercules Incorporated. Precoat resin dispersion for tufted carpets. 4,640,953, 2-3-87, Cl. 524-476.000.
- Goss, Reginald J., Jr.; and Jendrzejek, Gary S., to Oilgear Company, The. Constant speed hydraulic drive. 4,644,748, 2-24-87, Cl. 60-395.000.
- Goss, Willis C.; Youmans, Bruce R.; Nerheim, Noble M.; and Bartman, Randall K., to United States of America, National Aeronautics and Space Administration. Closed loop fiber optic rotation sensor. 4,662,751, 5-5-87, Cl. 356-350.000.
- Goss, Willis C.; and Janesick, James R., to United States of America, National Aeronautics and Space Administration. Laser pulse detection method and apparatus. 4,669,882, 6-2-87, Cl. 356-350.000.
- Gossar, Ronald C.: *See—*
  - Hixenbaugh, Dennis L.; and Gossar, Ronald C., 4,646,315, Cl. 373-2.000.
- Gosse, August-Wilhelm; and Winhart, Nikolaus, to Dr. Ing. H.c.F. Porsche Aktiengesellschaft. Device for fastening a motor vehicle window, especially a windshield or a rear window. 4,659,138, 4-21-87, Cl. 296-201.000.
- Gosselin, Gilles: *See—*
  - Imbach, Jean-Louis; Gosselin, Gilles; and De Rudder, Jean, 4,659,698, Cl. 514-49.000.
- Gosselink, Eugene P., to Procter & Gamble Company, The. Block polyesters and like compounds useful as soil release agents in detergent compositions. 4,702,857, 10-27-87, Cl. 252-174.210.
- Gosselink, Eugene P.; and Diehl, Francis L., to Procter & Gamble Company, The. Capped 1,2-propylene terephthalate-polyoxyethylene terephthalate polyesters useful as soil release agents. 4,711,730, 12-8-87, Cl. 252-8.750.
- Gosselink, Eugene P., to Procter & Gamble Company, The. Block polyester and like compounds having branched hydrophilic capping groups useful as soil release agents in detergent compositions. 4,713,194, 12-15-87, Cl. 252-174.230.
- Gosselink, Eugene P.: *See—*
  - Dekker, Bob; Konig, Axel; Straathof, Theodericus J.; and Gosselink, Eugene P., 4,661,267, Cl. 252-8.800.
  - Oh, Young S.; and Gosselink, Eugene P., 4,664,848, Cl. 252-547.000.
  - Rubingh, Donn N.; and Gosselink, Eugene P., 4,659,802, Cl. 528-405.000.
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- Gossen Corporation: *See—*
  - Hoffmann, Daniel J., 4,690,862, Cl. 428-318.600.
- Gosser, Lawrence W., to Du Pont de Nemours, E. I., and Company. Catalytic process for making H_2O_2 from hydrogen and oxygen. 4,681,751, 7-21-87, Cl. 423-584.000.
- Gosset, Şerge; and Lumaret, Jean-Claude, to Roquette Freres Societe Anonyme. Amylaceous composition for mixtures based on synthetic or natural binders employed in the manufacture of certian textile or paratextile products, particularly of the composite textile or fabric type. 4,711,794, 12-8-87, Cl. 427-389.900.
- Gossl, Dietmar; Muncke, Ludwig; and Wittich, Kurt, to Mannesmann Rexroth GmbH. Brake valve infinitely variable pressure intensification. 4,706,545, 11-17-87, Cl. 91-32.000.
- Gosslar, Achim; and Heider, Jurgen, to Patent-Treuhand Gesellschaft fur elektrische Gluhlampen mbH. Electric lamp with oriented current conductors extending through a press seal. 4,658,177, 4-14-87, Cl. 313-25.000.
- Gossman, Richard G.: *See—*
  - Heath, Allan B.; and Gossman, Richard G., 4,714,199, Cl. 239-412.000.
- Gossmann, Reimund, to SKF GmbH. Seals for bearing with circulating outer ring. 4,676,671, 6-30-87, Cl. 384-485.000.
- Gosswiller, Earl W., to Federal Signal Corporation. Low drag warning system for emergency vehicles. 4,635,039, 1-6-87, Cl. 340-384.00R.
- Gosteli, Jacques; Ernest, Ivan; Lang, Marc; and Woodward, Robert B., to Ciba-Geigy Corporation. 6-substituted penem compounds. 4,692,442, 9-8-87, Cl. 514-195.000.
- Gosteli, Jacques: *See—*
  - Tenud, Leander; and Gosteli, Jacques, 4,670,192, Cl. 260-501.150.
  - Tenud, Leander; and Gosteli, Jacques, 4,692,543, Cl. 558-342.000.
- Gostelow, Benjamin F., to TI New World Limited. Hob for a gas cooker. 4,653,463, 3-31-87, Cl. 126-39.00H.
- Gostelow, Benjamin F.; Buick, Thomas R.; Hart, William B.; Gale, Paul N.; Carr, Trevor L.; Dibling, Richard C.; and Albon, Philip, to T.I. Domestic Appliances Limited. Shelf units for refrigerators. 4,671,074, 6-9-87, Cl. 62-186.000.
- Gosudarstvenny Nauchno-Issledovatelsky I Proektny Institut PO Obogascheniju Rud Tsvetnykh Metallov "Kazmekhanobr": *See—*
  - Feofanov, Vitaly A.; Pilat, Boris V.; Zhdanovich, Larisa P.; Romanenko, Anatoly G.; Lukhanin, Boris S.; Donets, Oleg V.; and Korobochkin, Valery P., 4,655,895, Cl. 204-213.000.
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  - Fedorov, Svyatoslav N.; Egorova, Eleonora V.; Nanushyan, Sergei R.; Chernyshev, Evgeny A.; Spiridonov, Oleg P.; Benenson, Igor L.; Polivanov, Alexandr N.; Shapatin, Anatoly S.; and Karavaev, Alexandr A., 4,647,282, Cl. 623-4.000.
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  - Hattori, Torao; Nishimura, Minoru; and Goto, Masaki, 4,642,07 Cl. 474-201.000.
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  - Nakai, Tetsuo; and Goto, Mitsuhiro, 4,693,746, Cl. 75-238.000.
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  - Shiba, Toyoaki; Goto, Seiichi; and Ito, Keishi, 4,702,024, C 37-67.000.
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  - Furusawa, Choji; Goto, Shigeki; Maruchi, Satoshi; and Minemoto, Isamu, 4,669,435, Cl. 123-323.000.
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- Goto, Shinji: *See—*
  - Nakaoka, Masaki; Komatsu, Teruo; Goto, Shinji; and Matsunaga Tsuyoshi, 4,652,149, Cl. 384-100.000.
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  - Michiue, Kenji; Yagi, Toshihiko; Yamazaki, Katsumasa; Goto Sohei; and Mochizuki, Yoshiharu, 4,670,375, Cl. 430-509.000.
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- Goto, Tadahiko; and Abe, Hideo, to Ye Data Inc. Magnetic head f recording and reproduction. 4,646,184, 2-24-87, Cl. 360-110.000.
- Goto, Tadashi, to Kabushiki-Kaisha Goko Eizo-Kagaku Kenkyu Inspection device for high-speed prints. 4,643,565, 2-17-87, C 356-24.000.
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  - Miyazaki, Yoshihiko; Goto, Taizan; Komiyama, Yoshizo; a Iwata, Kotei, 4,641,603, Cl. 118-724.000.
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  - Nishibayashi, Hideyuki; Iio, Shigeyoshi; Watanabe, Fumio; a Goto, Takakiyo, 4,709,090, Cl. 562-537.000.
- Goto, Teruo; Takata, Yoshirou; Muraji, Kenji; and Higashi, Mikio, Daihatsu Diesel Mfg. Co., Ltd. Brake apparatus for automatic do 4,698,622, 10-6-87, Cl. 340-648.000.
- Goto, Teruo: *See—*
  - Fujita, Masaaki; Sasaki, Mikio; Goto, Teruo; and Yamaguc Namio, 4,644,349, Cl. 340-825.250.

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Goto, Tomoko, to Nagoya Institute of Technology. Superconductive alloy filament. 4,693,865, 9-15-87, Cl. 420-572.000.

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Naruki, Toshimasa; and Goto, Toshihisa, 4,712,145, Cl. 360-96.500.

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Kurahashi, Yoshio; Shiokawa, Kozo; Goto, Toshio; Kagabu, Shinzo; Matsumoto, Noboru; and Moriya, Koichi, 4,708,953, Cl. 514-166.000.

Shiokawa, Kozo; Moriya, Koichi; Goto, Toshio; Kamochi, Atsumi; Ito, Seishi; and Horita, Mitsugu, 4,666,503, Cl. 71-90.000.

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Aikou, Kenichi; Kurihara, Yoichi; and Goto, Tsugio, 4,712,477, Cl. 102-206.000.

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Nanba, Sinzi; Matsui, Kazuma; Mizuno, Toru; and Goto, Tukasa, 4,696,193, Cl. 73-861.220.

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Ozawa, Kuniichi; Goto, Yasuhiro; Nakase, Hiromi; and Yukino, Shinya, 4,644,157, Cl. 250-231.0SE.

Goto, Yasuo; and Hanada, Yoshihiro, to Minolta Camera Kabushiki Kaisha. Scan type anamorphic magnifying apparatus. 4,653,898, 3-31-87, Cl. 355-8.000.

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Goto, Yasuyuki: *See—*

Inoue, Hiromichi; Fukui, Masahiro; Goto, Yasuyuki; and Tokita, Susumu, 4,704,228, Cl. 252-299.630.

Isoyama, Toyoshiro; Goto, Yasuyuki; Ogawa, Tetsuya; and Sugimori, Shigeru, 4,696,759, Cl. 252-299.620.

Kitano, Kisei; Ogawa, Tetsuya; Furukawa, Yoshito; Yoshida, Naoyuki; Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; and Nigorikawa, Kazunori, 4,684,476, Cl. 252-299.610.

Ogawa, Tetsuya; Kitano, Kisei; Goto, Yasuyuki; Fukui, Masahiro; and Sugimori, Shigeru, 4,640,795, Cl. 252-299.500.

Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; and Nigorikawa, Kazunori, 4,654,162, Cl. 252-299.630.

Sugimori, Shigeru; Nigorikawa, Kazunori; and Goto, Yasuyuki, 4,659,500, Cl. 252-299.500.

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Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; and Nigorikawa, Kazunori, 4,661,283, Cl. 252-299.630.

Sugimori, Shigeru; Ogawa, Tetsuya; Goto, Yasuyuki; Isoyama, Toyoshiro; Nigorikawa, Kazunori; Kitano, Kisei; Yoshida, Naoyuki; and Furukawa, Yoshito, 4,673,529, Cl. 252-299.630.

Sugimori, Shigeru; Goto, Yasuyuki; and Ogawa, Tetsuya, 4,683,078, Cl. 252-299.610.

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Yoshida, Naoyuki; Kitano, Kisei; Furukawa, Yoshito; Ogawa, Tetsuya; Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; and Nigorikawa, Kazunori, 4,640,796, Cl. 252-299.610.

Goto, Yoichi: *See—*

Terada, Kimio; Mori, Michio; Goto, Yoichi; Nakazawa, Takashi; Muto, Kunio; and Usami, Shozo, 4,637,937, Cl. 426-570.000.

Goto, Yuko: *See—*

Fujita, Takashi; Goto, Yuko; and Nishikawa, Kenji, 4,658,974, Cl. 215-12.00R.

Gotoh, Hajime; Machida, Mamoru; and Sugiyama, Osamu, to Mitsubishi Rayon Co., Ltd. Paper-like product, method and apparatus for production thereof and prepreg formed of said paper-like product. 4,713,276, 12-15-87, Cl. 428-113.000.

Gotoh, Hiroshi, to Ricoh Company, Ltd. Optical beam shaping system. 4,635,244, 1-6-87, Cl. 369-112.000.

Gotoh, Hiroshi; and Hashimoto, Kenshiro, to Honda Giken Kogyo Kabushiki Kaisha. AC generator control status detecting device with short-circuit protection means. 4,672,297, 6-9-87, Cl. 322-28.000.

Gotoh, Hiroshi: *See—*

Emoto, Masami; Gotoh, Hiroshi; and Inuzuka, Hideo, 4,683,559, Cl. 369-44.000.

Gotoh, Hitoshi, to Mitsubishi Denki Kabushiki Kaisha. Vehicle generator. 4,658,164, 4-14-87, Cl. 310-89.000.

Gotoh, Hitoshi, to Mitsubishi Denki Kabushiki Kaisha. Charging generator for a vehicle. 4,659,950, 4-21-87, Cl. 310-59.000.

Gotoh, Kazuyuki: *See—*

Fukatsu, Takeo; Takeuchi, Masaru; and Gotoh, Kazuyuki, 4,689,438, Cl. 136-256.000.

Gotoh, Kunihiko: *See—*

Kousaka, Kunimitsu; and Gotoh, Kunihiko, 4,697,154, Cl. 330-277.000.

Saito, Tadahiro; and Gotoh, Kunihiko, 4,697,140, Cl. 324-73.00R.

Gotoh, Michihiro; Fujimoto, Tsuyoshi; Komatsu, Nobiru; and Otsuki, Yuzo, to Harima Refractory Co., Ltd.; and Nippon Steel Corporation. Sliding nozzle plate. 4,646,950, 3-3-87, Cl. 222-591.000.

Gotoh, Miyuki, to Nissan Motor Co., Ltd. Loom equipped with weft picking control system. 4,658,865, 4-21-87, Cl. 139-435.000.

Gotoh, Shiroh: *See—*

Fujii, Masaki; Gotoh, Shiroh; Nakagawa, Hideaki; and Ito, Ryoichi, 4,680,318, Cl. 521-95.000.

Gotoh, Tohru, to Mitsubishi Denki Kabushiki Kaisha. Method for manufacturing a frame for an electric motor. 4,643,346, 2-17-87, Cl. 228-155.000.

Gotoh, Toshihiko; Yoshida, Takahiko; and Kobori, Yasunori, to Hitachi, LTD. Signal-processing circuit for heat-sensitive recording apparatus. 4,704,618, 11-3-87, Cl. 346-76.0PH.

Gotoh, Toshihiko: *See—*

Kobori, Yasunori; Hanma, Kentaro; and Gotoh, Toshihiko, 4,703,366, Cl. 358-335.000.

Morishita, Akira; Okamoto, Kyoithi; Gotoh, Toshihiko; Kako, Yukio; and Arima, Takemi, 4,715,243, Cl. 74-434.000.

Gotoh, Youkichi: *See—*

Nagoshi, Toshiharu; Totsuka, Hidehiko; Taira, Takeshi; Gotoh, Youkichi; and Senuma, Kazuya, 4,645,249, Cl. 293-102.000.

Gotoh, Yuzoh: *See—*

Inoue, Hidefumi; Gotoh, Yuzoh; and Ishihara, Kimio, 4,706,546, Cl. 91-370.000.

Tsuyuki, Yasuo; and Gotoh, Yuzoh, 4,656,923, Cl. 91-369.00R.

Gotoo, Nobuyuki: *See—*

Nakazato, Shinji; Uchida, Hideaki; Tanba, Nobuo; Gotoo, Nobuyuki; Onozawa, Kazunori; and Hiraishi, Atsushi, 4,672,416, Cl. 357-46.000.

Gotou, Makoto, to Matsushita Electric Industrial Co., Ltd. Rotating electric motor with reduced cogging torque. 4,692,645, 9-8-87, Cl. 310-184.000.

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Gotou, Masakazu: *See—*

Motoyama, Shimesu; Gotou, Masakazu; Shirakawa, Hiromu; and Makino, Takamoto, 4,640,218, Cl. 118-19.000.

Gotou, Masana; Isshiki, Minoru; Uozumi, Shoji; Ohizumi, Masayuki; and Fushiki, Yasuo, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Continuous process for preparing reinforced resin laminates. 4,662,973, 5-5-87, Cl. 156-307.400.

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Gotou, Seizi: *See—*

Fujimoto, Yoshihisa; Gotou, Seizi; and Fujita, Yoshiharu, 4,666,966, Cl. 524-114.000.

Gotou, Shizuo; Kagimasa, Toyohiko; Yoshizumi, Seiichi; and Shintani, Yooichi, to Hitachi, Ltd. Data processor with control of the significant bit lengths of general purpose registers. 4,679,140, 7-7-87, Cl. 364-200.000.

Gotou, Tadashi; and Yamamoto, Hisashi, to Hitachi, Ltd. Device for making a fluid having electrical conductivity flow. 4,687,418, 8-18-87, Cl. 417-50.000.

Gotou, Takeo: *See—*

Tanaka, Toshinori; Gotou, Takeo; Ishihara, Kouhei; and Kittaka, Yoshiaki, 4,677,407, Cl. 335-202.000.

Gotsch, Dieter; Klenk, Robert; Hafner, Otto; and Suss, Claus, to Robert Bosch GmbH. Power-driven hand-held tool with a pneumatic motor. 4,635,732, 1-13-87, Cl. 173-162.00R.

Gott Corporation: *See—*

Ferbrache, Raymond B., 4,691,840, Cl. 220-318.000.

Loofbourrow, James G.; Lewis, William E.; and Pelton, Robert J., 4,656,840, Cl. 62-530.000.

Gott, Hans; Ritter, Josef; Ritter, Gerhard; and Ritter, Klaus, to EVG Entwicklungs- u Verwertungs-Gesellschaft m.b.H. Electrical resistance grid welding machine. 4,673,786, 6-16-87, Cl. 219-56.000.

Gottesman, Karen, executrix: *See—*

Meinhold, James F.; Musto, Joseph A.; Kramer, Karl C.; and Gottesman, Martin, deceased, 4,659,577, Cl. 426-387.000.

Gottesman, Martin, deceased: *See—*

Meinhold, James F.; Musto, Joseph A.; Kramer, Karl C.; and Gottesman, Martin, deceased, 4,659,577, Cl. 426-387.000.

Gottfried, Achberger, to Zahnradfabrik Friedrichshafen AG. Gear shift device. 4,691,585, 9-8-87, Cl. 74-473.00R.

Gottfried Bischoff Bau Kompl. Gasreinigungsund Wasserruckkuhlanlagen GmbH & Co. Kommanditgesellschaft: *See—*

Stehning, Werner; and Reichwald, Werner, 4,670,224, Cl. 422-170.000.

Gottfried, Carlos F., to Power Group International Corp. Uninterruptible power supply cogeneration system. 4,686,375, 8-11-87, Cl. 290-2.000.

Gottfried, Mario H., to Power Group International Corp. Power source for starter motors. 4,703,188, 10-27-87, Cl. 290-38.00B.

Gottfried, Robert W.: *See—*

Cronenwett, Duane; and Gottfried, Robert W., 4,698,935, Cl. 47-57.500.

Gottfried, Werner; Mack, Ernst; and Witzke, Lothar, to Th. Goldschmidt AG. Process for the preparation of basic copper carbonate. 4,659,555, 4-21-87, Cl. 423-419.00R.

Gotthelf, Hans: *See—*

Heeren, Evert; and Gotthelf, Hans, 4,662,570, Cl. 241-79.100.

Gottier, Gerry N., to Air Products and Chemicals, Inc. Hydrocarbon recovery from carbon dioxide-rich gases. 4,654,062, 3-31-87, Cl. 62-17.000.

Gottlieb, A. Arthur, to Imreg, Inc. Tripeptides affecting immune response. 4,699,898, 10-13-87, Cl. 514-18.000.

Gottlieb, A. Arthur, to Imreg, Inc. Treatment of autoimmune disorders with immunoamplifiers. 4,710,380, 12-1-87, Cl. 424-101.000.

Gottlieb Guhring: *See—*

Guhring, Knut, 4,704,055, Cl. 408-59.000.

Gottlieb, Klaus; Graf, Wilfried; and Schadlich, Heinz-Kuno, to Veba Oel AG. Method for dehydrogenating hydrocarbons. 4,704,497, 11-3-87, Cl. 585-654.000.

Gottlieb, Klaus: *See—*

Wolfrum, Jurgen; Warnatz, Jurgen; Bruderreck, Hartmut; Gottlieb, Klaus; and Preuss, August-Wilhelm, 4,664,904, Cl. 423-648.00R.

Gottlieb, Michael M.: *See—*

Etzel, Stephen J.; and Gottlieb, Michael M., 4,675,626, Cl. 333-161.000.

Gottlieb, Milton; and Schaff, Fredrick L., to Westinghouse Electric Corp. Acousto-optic dispersive light filter. 4,639,092, 1-27-87, Cl. 350-372.000.

Gottlieb, Milton; and Schaff, Fredrick L., to Westinghouse Electric Corp. Acousto-optic dispersive light filter. 4,653,869, 3-31-87, Cl. 350-372.000.

Gottlieb, Milton: *See—*

Ryan, Frederick M.; Gottlieb, Milton; and Feldman, Donald W., 4,705,362, Cl. 350-372.000.

Gottling, Helmut: *See—*

Brausfeld, Walter; Gottling, Helmut; Moller, Rudolf; Muller, Peter; and Scharnowski, Gerhard, 4,656,457, Cl. 338-176.000.

Brausfeld, Walter; Gottling, Helmut; Moller, Rudolf; Muller, Peter; and Scharnowski, Gerhard, 4,680,436, Cl. 200-82.00E.

Gotto, Raymond J. Safety arrangement for cassette recorders and/or playback apparatus. 4,656,551, 4-7-87, Cl. 360-137.000.

Gottschalk, Karl-Heinz, to Babcock Textilmaschinen GmbH. Drier for moving sheet material. 4,697,354, 10-6-87, Cl. 34-23.000.

Gottschlich, Hermann: *See—*

Karl, Alfons; Walter, Erwin; Kleinschmit, Peter; Gottschlich, Hermann; Kutz, Roland; and Koth, Detley, 4,642,304, Cl. 502-427.000.

Gottschlich, Rudolf: *See—*

Hausberg, Hans-Heinrich; Bottch, Henning; Gottschlich, Rudolf; Seyfried, Christoph; and Minck, Klaus-Otto, 4,698,351, Cl. 514-338.000.

Gottwald, Adolf; Klose, Odo; and Koster, Wilfried, to Friedrich Grohe Armaturenfabrik GmbH & Co. Cleaning and washing appliance. 4,662,768, 5-5-87, Cl. 401-139.000.

Gottwald, Johannes F.; and Gruber, Dennis W., to Xerox Corporation. Ribbon deck motor control. 4,698,567, 10-6-87, Cl. 318-480.000.

Gottwald, William H.; Bandak, Michel N.; and Bitzer, Thomas N., to Hexcel Corporation. Vehicle mounting system for impact absorption apparatus. 4,658,941, 4-21-87, Cl. 188-377.000.

Gotway, Jerome M.: *See—*

Burson, Audrey F.; and Gotway, Jerome M., 4,653,823, Cl. 339-17.00F.

Gotz, Albert: *See—*

Bors, Hans; Egger, Peter; Gotz, Albert; and Schwemmer, Martin, 4,672,705, Cl. 8-151.000.

Gotz, Dieter: *See—*

Stahlecker, Fritz; Feuchter, Wolfgang; Gotz, Dieter; Schmid, Friedbert; and Zott, Werner, 4,667,464, Cl. 57-406.000.

Gotz, Friedrich: *See—*

Elstner, Erich; Schleifer, Karl-Heinz; Gotz, Friedrich; Sedewitz, Barbara; Roder, Albert; Mollering, Hans; and Seidel, Hans, 4,666,832, Cl. 435-25.000.

Gotz, Kurt: *See—*

Beger, Udo, 4,683,600, Cl. 5-99.00C.

Gotze, Gerd-Wolfgang: *See—*

Kopke, Wolfgang; Eggert, Albert; Wiener, Peter; Gotze, Gerd-Wolfgang; and Maas, Rainer, 4,689,820, Cl. 381-68.000.

Gotzen, Leo; and Brudermann, Uwe, to Ortopedia GmbH. Device for the external fixation of bone fragments. 4,662,365, 5-5-87, Cl. 128-92.0ZW.

Gotzenbrucker, Oswald; and Popp, Gerhard, to Brown, Boveri & Cie AG. Silicon semiconductor component with an edge contour made by an etching technique, and method for manufacturing this component. 4,680,615, 7-14-87, Cl. 357-55.000.

Gotzi, Karl: *See—*

Lukaszczyk, Alfons; Martin, Henry; Diel, Peter J.; Fory, Werner; Gotzi, Karl; Kristinsson, Haukur; Muller, Beat; Muntwyler, Rene ; Pachlatko, Johannes P.; Rempfler, Hermann; Schurter, Rolf; and Szczepanski, Henry, 4,715,883, Cl. 71-90.000.

Gouali, Mohamed; Roullet, Gerald; and Voisin, Oliver, to Lignes Telegraphiques et Telephoniques Ltt. Bidirectional optical wavelength multiplexer-demultiplexer. 4,708,425, 11-24-87, Cl. 350-96.160.

Goubeaux, Donald E., to Monarch Marking Systems, Inc. Replaceable inking cartridge with depletion counter. 4,636,097, 1-13-87, Cl. 400-196.100.

Goubeaux, Donald E.; and Miller, Richard A., to Monarch Marking Systems, Inc. Cutting method and apparatus for stacker. 4,693,151, 9-15-87, Cl. 83-23.000.

Goud, Bruno: *See—*

Dodin, Andre ; Avrameas, Eustrate; Goud, Bruno; Guillou, M chel; and Nicolas, Renee , 4,677,055, Cl. 435-7.000.

Gouda, Kasim I. Frame for stereotactic surgery. 4,706,665, 11-17-87, C 128-303.00B.

Gouda, Seiichi, to Sony Corporation. Method for storing in a first set o consecutive tracks a single still picture and in a second set of consecutive tracks corresponding digital audio with track number information included therein. 4,672,471, 6-9-87, Cl. 358-341.000.

Goude, Marie; and Six, Jean-Claude, to U.S. Philips Corporation. Method of producing and modifying a synthetic picture. 4,689,61 8-25-87, Cl. 340-725.000.

Goudeaux, James L.; and Olivier, Eric J. Slurry sandblasting syste 4,689,923, 9-1-87, Cl. 51-410.000.

Goudie, Kathleen M., to Texas Instruments Incorporated. Speakin apparatus having differing speech modes for word and phrase synthesis. 4,695,962, 9-22-87, Cl. 364-513.500.

Goudie, Kathleen M., to Texas Instruments Incorporated. Syllable boundary recognition from phonological linguistic unit string dat 4,696,042, 9-22-87, Cl. 381-51.000.

Goudie, Kathleen M.: *See—*

Lin, Kun-Shan; Goudie, Kathleen M.; and Frantz, Gene A. 4,685,135, Cl. 381-52.000.

Goudreau, Noel: *See—*

Arensdorf, Stephen C.; Stromgren, Lawrence T.; and Goudrea Noel, 4,691,697, Cl. 128-80.00L.

Goudriaan, Johan C.; and Van der Burgt, Maarten J., to Shell O Company. Reactor for non-isothermic reactions for the preparatio of hydrocarbons. 4,683,121, 7-28-87, Cl. 422-197.000.

Goudswaard, Frederik, to Stichting Internationaal Instituut Voor Lucht. Apparatus for deriving three-dimensional quantitative information from at least one stereopair. 4,697,347, 10-6-87, Cl. 33-1.00A.

Goudy, Paul R., Jr., to Autotrol Corporation. Laser disinfection o liquids. 4,661,264, 4-28-87, Cl. 210-748.000.

Goudy, Paul R., Jr.; Lamon, Keith A.; and Weekley, William G., t Autotrol Corporation. Bactericidal pellet dispenser. 4,662,538, 5-5-87, Cl. 221-265.000.

Goudy, Paul R., Jr.; Cassedy, Linn W.; and Whitaker, Thomas S., t Autotrol Corporation. Tablet granulation. 4,673,527, 6-16-87, C 252-181.000.

Goudy, Paul R., Jr.; Voigt, James R.; and Newman, Ronald E., t Autotrol Corporation. Method and circuit for timing chemical dispenser operation. 4,676,403, 6-30-87, Cl. 222-54.000.

Goudy, Paul R., Jr., to Autotrol Corporation. Particulates generatio and removal. 4,684,063, 8-4-87, Cl. 239-2.100.

Goudy, Paul R., Jr., to Autotrol Corporation. Fluid mixer/charger 4,684,254, 8-4-87, Cl. 366-340.000.

Goudy, Paul R., Jr.; Weekley, William G.; Dovala, Donald L.; and Olszewski, Thomas C., Sr., to Autotrol Corporation. Valve contro with mechanical memory. 4,687,031, 8-18-87, Cl. 141-9.000.

Goudy, Paul R., Jr.; Medhurst, James A.; and Dresselhuys, Donn R., t Autotrol Corporation. Bactericidal mixture control system having flow and dispense duration controls for respective substances 4,688,699, 8-25-87, Cl. 222-56.000.

Goudy, Paul R., Jr.; and Weekley, William G., to Autotrol Corporation. Seal member for pellet dispenser. 4,711,370, 12-8-87, C 221-265.000.

Gough & Company (Hanley) Limited: *See—*

Gough, George T., 4,664,251, Cl. 198-607.000.

Gough, George T., 4,666,032, Cl. 198-626.000.

Gough, David A., to University of California, The Regents of the Method and membrane applicable to implantable sensor. 4,650,54 3-17-87, Cl. 204-1.00T.

Gough, David A., to University of California, The Regents of the Electrochemical cell sensor for continuous short-term use in tissues and blood. 4,671,288, 6-9-87, Cl. 128-635.000.

Gough, David A.; Lucisano, Joseph Y.; Armour, Jon C.; and McKean, Brian D., to University of California, The Regents of the. Complete glucose monitoring system with an implantable, telemetered sensor module. 4,703,756, 11-3-87, Cl. 123-635.000.

Gough, George T., to Gough & Company (Hanley) Limited. Elevating conveyor. 4,664,251, 5-12-87, Cl. 198-607.000.

Gough, George T.; to Gough & Company (Hanley) Limited. Pocket elevator. 4,666,032, 5-19-87, Cl. 198-626.000.

Gough, Michael J.: *See—*

Neu, Max G.; Gough, Michael J.; Ashton, Michael C.; and Wallis, Roger, 4,665,966, Cl. 164-137.000.

Gouilloud, Michel: *See—*

Locke, Stanley; and Gouilloud, Michel, 4,692,707, Cl. 324-374.00

Gouit, Jacques: *See—*

Charransol, Pierre; Audrix, Jean-Claude; and Gouit, Jacques 4,654,823, Cl. 365-174.000.

Goulart, Joseph F., to Chrysler Motors Corporation. Steering knuckle 4,674,760, 6-23-87, Cl. 280-88.000.

Goulart, Joseph F., to Chrysler Motors Corporation. Disc brake 4,705,145, 11-10-87, Cl. 188-18.00A.

Goulay, Jean; Choay, Jean; and Duclos, Jean-Pierre, to Choay S.A. Heparin compositions freed of mineral salts, particularly oxalates, an process for obtaining same. 4,652,555, 3-24-87, Cl. 514-56.000.

Goulay, Jean: *See—*

Lormeau, Jean-Claude; Goulay, Jean, and Choay, Jean, 4,692,43 Cl. 514-56.000.

Goulbourne, Stephen. Detecting leaks in plumbing systems. 4,705,06 11-10-87, Cl. 137-102.000.

- Gould, Alan P.: *See—*
  - McKibben, Kenneth D.; Gould, Alan P.; Groh, Craig J.; and Wuepper, Thomas E., 4,639,968, Cl. 15-304.000.
  - McKibben, Kenneth D.; Gould, Alan P.; Groh, Craig J.; and Wuepper, Thomas E., 4,643,243, Cl. 164-260.000.
- Gould, Bruce M., to Challenge-Cook Brothers, Inc. Method for kneading food pieces. 4,657,771, 4-14-87, Cl. 426-641.000.
- Gould, Clive M.: *See—*
  - Callaghan, Ian C.; Gould, Clive M.; and Grabowski, Wojciech, 4,711,714, Cl. 208-348.000.
- Gould, Corby J.; and Seago, Carl R. Pool water test instrument. 4,663,126, 5-5-87, Cl. 422-58.000.
- Gould, Diane C.; and Tucker, Robert R., to Mattel, Inc. Toy construction set. 4,685,892, 8-11-87, Cl. 446-109.000.
- Gould Electronics B.V.: *See—*
  - Bergmans, Anthony B., 4,638,661, Cl. 73-237.000.
  - van der Meer, Jelle; and Slaghuis, Hans, 4,668,257, Cl. 55-267.000.
- Gould, Fred L.; Pour, Diana C.; and Villani, Michael G., to North Carolina State University. Ecologically improved process of protecting certain crops from damage by soil-inhabiting insect pests and product produced thereby. 4,676,985, 6-30-87, Cl. 424-195.100.
- Gould, Frederick H., Jr.; and Spector, George. Screw gun automatic feed. 4,667,545, 5-26-87, Cl. 81-57.370.
- Gould, Gordon; Soodak, Charles I.; and Thompson, Robert E., to Chevron Research Company. Hermetically sealed optical fiber. 4,651,917, 3-24-87, Cl. 228-173.500.
- Gould, Gordon. Light amplifiers employing collisions to produce a population inversion. 4,704,583, 11-3-87, Cl. 330-4.300.
- Gould, Gordon E.: *See—*
  - Luecke, Robert A.; and Gould, Gordon E., 4,643,927, Cl. 428-36.000.
- Gould, Herbert L. Apparatus for the self-examination of the human eye. 4,682,867, 7-28-87, Cl. 351-223.000.
- Gould inc.: *See—*
  - Alsberg, Peter, 4,672,572, Cl. 364-900.000.
  - Baker, Richard H.; and Maddox, Edward L., 4,680,490, Cl. 307-575.000.
  - Belcher, Richard A.; and Panaro, Robert J., 4,651,119, Cl. 337-166.000.
  - Bennett, William R., 4,714,662, Cl. 429-27.000.
  - Gordon, Arnold Z.; and Specht, Steven J., 4,652,503, Cl. 429-14.000.
  - Gordon, Arnold Z., 4,663,249, Cl. 429-14.000.
  - Gordon, Arnold Z.; and Everett, Harry, Jr., 4,670,358, Cl. 429-15.000.
  - Gordon, Arnold Z., 4,684,584, Cl. 429-51.000.
  - Jain, Babu L.; Jain, Pardeep K., and Briner, Michael S., 4,714,901, Cl. 331-176.000.
  - Kakihana, Sanehiko, 4,698,899, Cl. 437-44.000.
  - Knapp, Edward J., Jr., 4,684,915, Cl. 337-276.000.
  - Kodama, Roy K.; and Koneval, Donald J., 4,683,894, Cl. 128-675.000.
  - Lach, Lawrence E., 4,636,654, Cl. 307-260.000.
  - Lach, Lawrence E., 4,712,061, Cl. 324-83.00D.
  - Minten, Karl; and Krug, William, 4,637,987, Cl. 436-151.000.
  - Minten, Karl; and Krug, William, 4,677,078, Cl. 436-136.000.
  - Mosesian, Jerry L., 4,646,053, Cl. 337-232.000.
  - Murray, Richard C., Jr.; Fowler, J. Scott; and Goorsky, Mark S., 4,653,499, Cl. 128-635.000.
  - Nelson, John E.; Grossheim, Edward T.; and Perelman, Franklin M., 4,673,929, Cl. 340-703.000.
  - Panaro, Robert J., 4,661,807, Cl. 340-638.000.
  - Seiger, Harvey N., 4,681,663, Cl. 204-21.000.
  - Seiger, Harvey N., 4,704,194, Cl. 204-2.100.
  - Shuster, Nicholas; and Pallat, Jerome F., 4,675,254, Cl. 429-51.000.
  - Specht, Steven J., 4,677,040, Cl. 429-14.000.
  - Specht, Steven J., 4,677,041, Cl. 429-206.000.
  - Young, Peter L.; and Chen, Chiu-Chao, 4,698,662, Cl. 357-80.000.
  - Young, Peter L.; Cech, Jay; and Li, Kin, 4,705,606, Cl. 204-15.000.
- Gould, Jack U.: *See—*
  - Halpern, Gregory; and Gould, Jack U., 4,657,820, Cl. 428-476.600.
- Gould, John M., to United States of America, Agriculture. Alkaline peroxide treatment of nonwoody lignocellulosics. 4,649,113, 3-10-87, Cl. 435-165.000.
- Gould, Kenneth E., and Hamilton, Eugene A., to Peterson American Corp. Process for high pressure impact coating. 4,652,468, 3-24-87, Cl. 427-282.000.
- Gould, Kenneth J.; and Suschitzky, John L., to Fisons plc. Dioxo dibenzopyrans and anti-allergic use thereof. 4,670,452, 6-2-87, Cl. 514-382.000.
- Gould, Kenneth J.: *See—*
  - Baxter, Andrew J. G.; Dixon, John; Gould, Kenneth J.; and Tinker, Alan C., 4,686,217, Cl. 514-210.000.
- Gould, Leonard A.: *See—*
  - Hawes, Timothy R.; Antekeier, Steven A.; Cryderman, Glenn R.; Munger, David I.; Gould, Leonard A.; and Eklund, Louis E., Jr., 4,706,980, Cl. 280-154.000.
- Gould, Ronald M.; and Tabak, Samuel A., to Mobil Oil Corporation. Multi-stage system for converting oxygenates to liquid hydrocarbons with aliphatic recycle. 4,689,205, 8-25-87, Cl. 422-142.000.
- Gould, Theresa A.: *See—*
  - Henningsen, Tom; and Gould, Theresa A., 4,693,545, Cl. 350-96.120.
- Goulding, Frederick S.; and Landis, Donald A., to United States of America, Energy. High resolution, high rate X-ray spectrometer. 4,658,216, 4-14-87, Cl. 328-109.000.
- Goulding, John; and Clark, Derek, to Bevaloid Limited. Polymer compositions detectable in water. 4,704,440, 11-3-87, Cl. 525-376.000.
- Goulding, Kenneth, to British Aerospace PLC. Deployment and actuation mechanisms. 4,709,877, 12-1-87, Cl. 244-3.280.
- Goulds Pumps, Incorporated: *See—*
  - Freeland, Bruce E.; and Salerno, John C., 4,661,044, Cl. 415-201.000.
- Gouldsberry, Gary; Chan, Albert; Tsui, Cyrus; and Fitzpatrick, Mark, to Monolithic Memories, Inc. TTL buffer circuit incorporating active pull-down transistor. 4,634,898, 1-6-87, Cl. 307-456.000.
- Gouldsberry, Gary: *See—*
  - Bosnyak, Bob; Chan, Albert; Fitzpatrick, Mark; Gouldsberry, Gary; Tsui, Cyrus; and Chan, Andrew K., 4,670,708, Cl. 324-51.000.
  - Chua, H. T.; Tsui, Cyrus; Chan, Albert; and Gouldsberry, Gary, 4,654,830, Cl. 365-200.000.
- Goulet, Carl R., to Teledyne Industries, Inc. Electronic and mechanical fuel supply system. 4,683,854, 8-4-87, Cl. 123-478.000.
- Goulet, Gary P.: *See—*
  - Bentley, Alan M.; Fitch, Edward W.; Freeburger, John W.; and Goulet, Gary P., 4,654,852, Cl. 371-29.000.
- Goulet, Roger T.: *See—*
  - Gualtieri, Peter J.; and Goulet, Roger T., 4,646,558, Cl. 73-40.700.
- Goulooze, Marinus. Hydraulic tensioning device for sailing vessel. 4,672,908, 6-16-87, Cl. 114-214.000.
- Goulot, Etienne; and Kwapisz, Jean, to Forest-Line. Milling device with universal gear and automatic indexation. 4,657,453, 4-14-87, Cl. 409-216.000.
- Goulter, Barbara W.: *See—*
  - Goulter, Victor H.; and Goulter, Barbara W., 4,645,209, Cl. 273-271.000.
- Goulter, Victor H.; and Goulter, Barbara W. Pattern-formation strategy board game. 4,645,209, 2-24-87, Cl. 273-271.000.
- Goulter, Victor H.: *See—*
  - Brown, Brian A.; and Goulter, Victor H., 4,664,347, Cl. 248-97.000.
- Goumas, Peter G.; Hendricks, Quentin J.; and Trull, Michael W. Robot tool changing apparatus. 4,660,274, 4-28-87, Cl. 29-568.000.
- Goumas, Peter G.; and Wolfe, Paul T., to Lord Corporation. Apparatus and method for handling articles in automated assembly processes. 4,680,523, 7-14-87, Cl. 318-685.000.
- Goumy, Daniel; and Defrancq, Charles, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Device for fabricating frozen moulding moulds or cores. 4,644,995, 2-24-87, Cl. 164-159.000.
- Gounder, Raj N.; Shu, Chi-Fan; and Jacobs, Brian D., to RCA Corporation. Electromagnetic radiation reflector structure. 4,635,071, 1-6-87, Cl. 343-897.000.
- Gounder, Raj N., to RCA Corporation. Spacecraft structure. 4,682,744, 7-28-87, Cl. 244-158.00R.
- Gounder, Raj N.: *See—*
  - Talley, Eric; and Gounder, Raj N., 4,686,150, Cl. 428-593.000.
- Goupil, Jean-Jacques. Sun products. 4,699,781, 10-13-87, Cl. 424-59.000.
- Gourdine, Meredith C., to Energy Innovations, Inc. Method for airport fog precipitation. 4,671,805, 6-9-87, Cl. 55-10.000.
- Gourlandt, Albert J. A. Method and apparatus for automatically treating animals, preferably birds, such as young chicks, young guineafowls, young turkeys. 4,681,565, 7-21-87, Cl. 604-115.000.
- Gourlaouen, Claire; Magnier, Claude; Latourrette, Bertrand; Tugaye, Anne; and Deneuve, Francoise, to Rhone-Poulenc Specialties Chimiques. Neodymium hydroxy/ammonium nitrate. 4,698,175, 10-6-87, Cl. 252-182.000.
- Gourlay, Robert R. R.; and Sherriffs, Neill M., to A.I. Welders Limited. Method and apparatus for aligning two work pieces for welding and for weld upset removal. 4,645,897, 2-24-87, Cl. 219-101.000.
- Gourley, Helen: *See—*
  - Pringle, David A.; and Gourley, Helen, 4,686,612, Cl. 362-297.000.
- Gourlia, Jean P.: *See—*
  - Devos, Andre; Gourlia, Jean P.; and Paradowski, Henri, 4,664,785, Cl. 208-354.000.
- Gourmel, Yves; and Pierrel, Michel, to Pont-a-Mousson S.A. Apparatus for the rotary supply of molten cast-iron to an installation for the vertical continuous casting of a pipe from spheroidal graphite cast-iron. 4,690,199, 9-1-87, Cl. 164-421.000.
- Gourmel, Yves; and Pierrel, Michel, to Pont A Mousson S.A. Installation for the step by step vertical extraction of a continuous cast product. 4,693,297, 9-15-87, Cl. 164-447.000.
- Gourneau, Dwight A.; and Kerchberger, Steven W., to International Business Machines Corporation. Multiple file transfer to streaming device. 4,675,807, 6-23-87, Cl. 364-200.000.
- Gourrier, Serge; and Theeten, Jean-Bernard, to U.S. Philips Corporation. Method of manufacturing a semiconductor device. 4,645,683, 2-24-87, Cl. 427-38.000.
- Goushi, Sei'ichi: *See—*
  - Ninomiya, Yuichi; Ohtsuka, Yoshimichi; Izumi, Yoshinori; and Goushi, Sei'ichi, 4,692,801, Cl. 358-133.000.
- Goutard, Rene M.: *See—*
  - Duteurtre, Bruno H. J.; Coulon, Philippe A.; and Goutard, Rene M., 4,655,265, Cl. 141-9.000.
- Goutines, Marius J.: *See—*
  - Gely, Jean-Marie L.; Goutines, Marius J.; and Meauze, Geordes, 4,712,980, Cl. 416-224.000.
- Goutzoulis, Anastasios P., to Westinghouse Electric Corp. Acousto-optic system for testing high speed circuits. 4,683,420, 7-28-87, Cl. 324-73.00R.

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Goux, Warren J., to Board of Regents, University of Texas System. Method for enzymatic synthesis of isotopically labeled carbohydrates. 4,656,133, 4-7-87, Cl. 435-72.000.

Gouzoules, Glenn P.: *See—*

Baratti, James J.; McCollough, Mike; and Gouzoules, Glenn P., 4,697,279, Cl. 377-73.000.

Govaerts, Marcel K.: *See—*

Tylko, Jozef K.; Govaerts, Marcel K.; and Dompas, John M. A., 4,670,640, Cl. 219-121.0PC.

Govang, James A.: *See—*

Thalenfeld, David R.; Goldstein, Mark E.; and Govang, James A., 4,688,683, Cl. 211-57.100.

Gove, Gene G. Apparatus and method for making a counter top and product of same. 4,711,799, 12-8-87, Cl. 428-119.000.

Gover, Avraham; and Read, Michael E., to United States of America, Navy. Free electron and cyclotron resonance distributed feedback lasers and masers. 4,661,783, 4-28-87, Cl. 331-82.000.

Gover, Gary W. Band security lock. 4,691,539, 9-8-87, Cl. 70-18.000.

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Govil, Alok K.: *See—*

Kabacoff, Bernard L.; Marktow, Fred; and Govil, Alok K., 4,665,741, Cl. 73-149.000.

Govind, Rakesh, to University of Cincinnati. Adsorption of gases by amine complexed Mn (II). 4,668,255, 5-26-87, Cl. 55-73.000.

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Gowan, James L.: *See—*

Hanley, Martin G.; Gowan, James L.; and Deschamps, Robert L., 4,650,243, Cl. 296-221.000.

Hanley, Martin G.; Gowan, James L.; and Deschamps, Robert L., 4,652,045, Cl. 296-221.000.

Gowans, Neil A.; and Riester, William C., to Trico Products Corporation. Windshield wiper blade assembly. 4,715,082, 12-29-87, Cl. 15-250.420.

Goward, Robert M.: *See—*

Johnson, Bruce K.; and Goward, Robert M., 4,653,884, Cl. 354-81.000.

Johnson, Bruce K.; Estevez, Juan; Goward, Robert M.; and Whiteside, George D., 4,707,106, Cl. 354-481.000.

Gowda, Hanumaiah L.; Raj, Kuldip; and Borduz, Lucian, to Ferrofluidics Corporation. Electrically conductive ferrofluid bearing and seal apparatus and low-viscosity electrically conductive ferrofluid used therein. 4,673,997, 6-16-87, Cl. 360-107.000.

Gowda, Hanumaiah L.; Cheever, Charles J.; and Bloom, Frank, to Ferrofluidics Corporation. Ferrofluid seal for a stationary shaft and a rotating hub. 4,694,213, 9-15-87, Cl. 310-90.000.

Gower, David I. Railroad spike resinstallation apparatus. 4,637,314, 1-20-87, Cl. 104-17.100.

Gower, Jerald, to Durakon Industries, Inc. Truck bed liner retainer. 4,659,133, 4-21-87, Cl. 296-39.00R.

Gowing, Scott, to United States of America, Navy. Fluid sampler. 4,635,487, 1-13-87, Cl. 73-864.620.

Gowland, Frederick W.: *See—*

Brewster, Phillip W.; Smith, Clinton R.; and Gowland, Frederick W., 4,683,069, Cl. 252-32.70E.

Goy, Helmut: *See—*

Artun, Berkan; and Goy, Helmut, 4,644,567, Cl. 375-108.000.

Goy, Pierre, to Alsthom. Method of coupling two flanged shaft ends. 4,685,188, 8-11-87, Cl. 29-446.000.

Goyak, George M.: *See—*

Brierley, James A.; Brierley, Corale L.; Decker, Raymond F.; and Goyak, George M., 4,690,894, Cl. 435-244.000.

Goyarts, Wynand M., to Ingersoll-Rand Company. Slide bar mining bolting machine. 4,640,369, 2-3-87, Cl. 173-42.000.

Goyau, Gilles; and Rimaire, Jean-Claude, to Framatome. Apparatus for winding and unwinding a cable of which one end makes electric contact with a fixed installation. 4,646,985, 3-3-87, Cl. 242-54.00R.

Goyert, Josita M.: *See—*

Burgit, Richard A.; Davis, Newton G.; Goyert, Josita M.; Johnson, Keith, Jr.; Long, Robert A.; and Stachura, Joseph F., 4,633,570, Cl. 29-564.400.

Goyert, Wilhelm: *See—*

Haas, Peter; Barnes, James M.; and Goyert, Wilhelm, 4,639,478, Cl. 524-97.000.

Niederdellmann, Georg; Goyert, Wilhelm; Quiring, Bernd; and Wagner, Hans. 4,656,199, Cl. 521-79.000.

Goyet, Noel, to Syndicat National des Entreprises de Drainage. Method and equipment for automatic guidance of earthmoving machines and especially machines for laying drainage elemen 4,677,555, 6-30-87, Cl. 364-424.000.

Goyo Paper Working Co., Ltd.: *See—*

Ohara, Shuzo; and Kitamura, Ryoichi, 4,702,874, Cl. 264-171.00

Gozard, Jean-Pierre: *See—*

Jarry, Alain; Gozard, Jean-Pierre; Kennel, Yves; and Luccion Alain, 4,667,026, Cl. 536-114.000.

Gozdiff, Michael, to Goodyear Tire & Rubber Company, The. He resistant belt. 4,705,161, 11-10-87, Cl. 198-847.000.

Gozdz, Antoni S.: *See—*

Bowden, Murrae J. S.; and Gozdz, Antoni S., 4,657,841, C 430-270.000.

Gozdziewicz, Zygmunt: *See—*

Przybyla, Janusz; Gozdziewicz, Zygmunt; Szal, Andrzej; Zu Ryszard; and Maczynski, Andrzej, 4,656,719, Cl. 29-516.000.

Gozzo, Franco: *See—*

Camaggi, Giovanni; Gozzo, Franco; Signorini, Ernesto; and Palla Ottorino, 4,702,762, Cl. 71-90.000.

Colle, Roberto; Camaggi, Giovanni; Gozzo, Franco; Visenti Walter; and Mirenna, Luigi, 4,704,398, Cl. 514-383.000.

Palla, Ottorino; Gozzo, Franco; and Radice, Marco, 4,655,818, C 71-90.000.

Palla, Ottorino; Camaggi, Giovanni; Gozzo, Franco; Mencon Augusto; and Signorini, Ernesto, 4,661,599, Cl. 548-146.000.

Palla, Ottorino; Gozzo, Franco; and Radice, Marco, 4,685,954, C 71-90.000.

GPAC, Inc.: *See—*

Natale, Anthony, 4,705,429, Cl. 405-128.000.

GPD Canada Inc.: *See—*

Storimans, Franciscus J. A., 4,650,060, Cl. 198-459.000.

Storimans, Franciscus J. A., 4,700,753, Cl. 140-147.000.

GQ Defence Equipment Limited: *See—*

Nordberg, Anthony, 4,702,699, Cl. 434-20.000.

Graab, Gerhard: *See—*

Heckel, Klaus; Graab, Gerhard; and Kuhl, Hans-Michae 4,670,075, Cl. 156-222.000.

Graae, Jorgen, to A/S Eccolet Sko. System for moulding soles on shoe legs. 4,671,755, 6-9-87, Cl. 425-119.000.

Graafland, Teunis, to Shell Oil Company. Process for the preparation water-soluble vinyl saccharide polymers. 4,701,494, 10-20-87, C 524-811.000.

Graas, Maurice, to Goodyear Tire & Rubber Company, The. Pne matic tire. 4,667,717, 5-26-87, Cl. 152-209.00A.

Graba, James M.: *See—*

O'Keeffe, Michael J.; Graba, James M.; and Noyes, George 4,697,167, Cl. 340-347.0DD.

Grabbe, Dieter, to Societe d'Etudes de Machines Thermiques. Startin method for internal combustion engine. 4,635,595, 1-13-87, Cl. 12 179.00F.

Grabbe, Dimitry; and Korsunsky, Iosif, to AMP Incorporated. Contac socket with improved contact force. 4,687,278, 8-18-87, C 439-842.000.

Grabbe, Dimitry; Korsunsky, Iosif; Klunk, Thomas M.; and DiOrazi Joseph S., to AMP Incorporated. Zero insertion force connecto having wiping action. 4,695,111, 9-22-87, Cl. 439-266.000.

Grabbe, Dimitry: *See—*

Cattin, Bernard W.; and Grabbe, Dimitry, 4,645,296, C 350-96.210.

Grabbe, Dimitry G., to AMP Incorporated. Method for mounting connector to a substrate. 4,637,135, 1-20-87, Cl. 29-832.000.

Grabbe, Dimitry G.; and Korsunsky, Iosif, to AMP Incorporate Terminal feeding and insertion device. 4,642,872, 2-17-87, 29-564.600.

Grabbe, Dimitry G., to AMP Incorporated. Compliant interconnecti and method therefor. 4,642,889, 2-17-87, Cl. 29-840.000.

Grabbe, Dimitry G.; and Korsunsky, Iosif, to AMP Incorporated. C carrier socket having improved contact terminals. 4,645,279, 2-24- Cl. 339-17.0CF.

Grabbe, Dimitry G.; and Lambert, Lahman D., II, to AMP Incor rated. Electrical connections for shielded coaxial conducto 4,653,840, 3-31-87, Cl. 339-177.00R.

Grabbe, Dimitry G.; and Korsunsky, Iosif, to AMP Incorporated. T and method for removing connector housings from termin mounted on a substrate. 4,679,319, 7-14-87, Cl. 29-843.000.

Grabbe, Dimitry G.; and Korsunsky, Iosif, to AMP Incorporated. C carrier and carrier socket for closely spaced contacts. 4,684, 8-4-87, Cl. 439-64.000.

Grabbe, Dimitry G.; and Korsunsky, Iosif, to AMP Incorpora Connector having contact modules for a substrate such as an IC carrier. 4,699,593, 10-13-87, Cl. 439-71.000.

Grabbe, Dimitry G.; and Korsunsky, Iosif, to AMP Incorpora Manufacturing method for integrated circuit chip carriers and w holder for use in the method. 4,703,920, 11-3-87, Cl. 269-37.000.

Grabber Manufacturing Company: *See—*

Jarman, Davis R.; and Hinson, Virgil H., 4,712,417, Cl. 72-447

Grabel, Ramon. Stuck case remover. 4,633,561, 1-6-87, Cl. 29-263

Graber, Alfred, to Ciba-Geigy AG. Apparatus for spraying plant- tective agents. 4,645,128, 2-24-87, Cl. 239-223.000.

Graber, David W., to General Motors Corporation. Optical slip 4,711,516, 12-8-87, Cl. 350-96.150.

Graber, Gunter: *See—*

Hartjes, Rudolf; and Graber, Gunter, 4,715,133, Cl. 36-127.00

Graber Industries, Inc.: *See—*

Kaucic, Edward M., 4,657,060, Cl. 160-168.00R.

Graber, Joseph V.; and Severson, Ervin L., to Graber Products, Bicycle support device. 4,702,401, 10-27-87, Cl. 224-42.03B.

Graber Products, Inc.: *See—*
- Graber, Joseph V.; and Severson, Ervin L., 4,702,401, Cl. 224-42.03B.

Graber, Werner; and Slavik, Walter, to Rieter Machine Works, Ltd. Open end yarn piecer. 4,707,976, 11-24-87, Cl. 57-263.000.

Graber, Werner: *See—*
- Bischofberger, Walter; Eicholzer, Heinz; and Talir, Jiri, 4,636,599, Cl. 200-144.0AP.
- Bischofberger, Walter; Eichholzer, Heinz; Graber, Werner; Talir, Jiri; Hochspach, Edgar; and Luthi, Werner, 4,670,632, Cl. 200-144.0AP.

Grabiak, Raymond C.; Howe, Robert K.; and Schafer, David E., to Monsanto Company. 2-chloro-4-trifluoromethyl-thiazolecarbothioic acids useful as herbicidal safeners. 4,640,702, 2-3-87, Cl. 71-90.000.

Grabitz, Ernst B.; and Veneroni, Flavio, to Dox-al Italia S.p.A. Process for preparing a stabilized *Saccharomyces cerevisiae* cell culture. 4,677,073, 6-30-87, Cl. 435-256.000.

Grabitz, Ernst B., to Hasunor A.G. Metabolically active preparations obtained from yeast of any type. 4,695,549, 9-22-87, Cl. 435-267.000.

Grabitz, Ernst B., to Dox-al Italia S.p.A. Non-dusty blends of meals or flours with active principles for use in fodder production. 4,701,331, 10-20-87, Cl. 426-302.000.

Grable, Donovan B. Liquid mud ring control of underground liquids. 4,637,462, 1-20-87, Cl. 166-245.000.

Grable, Donovan B. Controlled placement of underground fluids. 4,651,824, 3-24-87, Cl. 166-245.000.

Grable, Lawrence I.: *See—*
- McCoy, William M.; and Grable, Lawrence I., 4,666,196, Cl. 293-128.000.

Grabley, Susanne, to Hoechst Aktiengesellschaft. Process for the racemization of optically active aminoacids. 4,638,086, 1-20-87, Cl. 562-401.000.

Grablowitz, Otto: *See—*
- Hopfgartner, Johann; Hurka, Wilhelm; Grablowitz, Otto; and Kropp, Wolfgang, 4,652,442, Cl. 514-420.000.

Grabmaier, Christa; Kotschy, Josef; and Lerchenberger, August, to Siemens Aktiengesellschaft. Method for the manufacture of large area silicon crystal bodies for solar cells. 4,643,797, 2-17-87, Cl. 156-603.000.

Grabmaier, Josef: *See—*
- Bernewitz, Lore; Falckenberg, Richard; Hoyler, Gerhard; and Grabmaier, Josef, 4,657,627, Cl. 156-607.000.
- Douklias, Nikolaos; and Grabmaier, Josef, 4,642,129, Cl. 65-3.120.
- Falckenberg, Richard; and Grabmaier, Josef, 4,664,745, Cl. 156-622.000.
- Kruehler, Wolfgang; and Grabmaier, Josef, 4,657,603, Cl. 148-175.000.

Grabner, Gunther: *See—*
- Breimesser, Fritz; Grabner, Gunther; and Lerch, Reinhard, 4,672,591, Cl. 367-152.000.

Grabovac, Bosko. Knife holder. 4,658,875, 4-21-87, Cl. 144-230.000.

Grabovac, Bosko; and Kurtovic, Zlatko, to Consolidated Devices, Inc. Hand grip drive for torque wrenches. 4,709,602, 12-1-87, Cl. 81-483.000.

Grabow, Dieter, to Messerschmitt-Bolkow-Blohm GmbH. Apparatus for venting a kitchen, especially an onboard kitchen in an aircraft. 4,702,153, 10-27-87, Cl. 98-1.000.

Grabowski, Albert T., to Warner-Lambert Company. Tablet coating apparatús. 4,676,187, 6-30-87, Cl. 118-19.000.

Grabowski, Edward J. J.: *See—*
- Budavari, John; and Grabowski, Edward J. J., 4,670,578, Cl. 560-40.000.

Grabowski geb. Marszalek, Danuta: *See—*
- Mennemann, Karl; and Grabowski geb. Marszalek, Danuta, 4,642,297, Cl. 501-78.000.

Grabowski, Gunther, to Grabowski Tropfkorper-Technik GmbH. Hollow reactor for biological waste-water purification. 4,676,892, 6-30-87, Cl. 210-150.000.

Grabowski, Jean, to Hutchinson. Bypass connections obtained by molding a coating of a junction material around a rigid tubular insert and a process for manufacturing same. 4,650,220, 3-17-87, Cl. 285-21.000.

Grabowski, Robert; and Kramer, Walter, to Reifenhauser GmbH & Co. Maschinenfabrik. Apparatus for stretching the individual strands of a bundle of fibers or threads. 4,692,106, 9-8-87, Cl. 425-66.000.

Grabowski, Stanley E., to Drzyzga, Richard; and Drzyzga, Michael, Jr., part interest to each. Installation tool. 4,713,868, 12-22-87, Cl. 29-275.000.

Grabowski Tropfkorper-Technik GmbH: *See—*
- Grabowski, Gunther, 4,676,892, Cl. 210-150.000.

Grabowski, Wojciech: *See—*
- Callaghan, Ian C.; Gould, Clive M.; and Grabowski, Wojciech, 4,711,714, Cl. 208-348.000.

Grabs, Jan W. I.: *See—*
- Anflo, Kjell S.; and Grabs, Jan W. I., 4,682,178, Cl. 342-202.000.

Grace, Alan G. V., to Power Modifications Incorporated. Power supply having tuned radio frequency circuit. 4,651,271, 3-17-87, Cl. 363-98.000.

Grace, Alan G. V., to Power Modifications Incorporated. Power supply having tuned radio frequency circuit. 4,712,170, 12-8-87, Cl. 363-98.000.

Grace Building Systems, Inc.: *See—*
- Grace, Edward M.; and Phillips, Robert E., 4,655,024, Cl. 52-745.000.

Grace, Edward M.; and Phillips, Robert E., to Grace Building Systems, Inc. Preconstructed building structures and method of construction and assembly. 4,655,024, 4-7-87, Cl. 52-745.000.

Grace, Forbes D., Sr. Gate opening and closing system. 4,667,440, 5-26-87, Cl. 49-237.000.

Grace G.m.b.H.: *See—*
- Luers, Georg; and Sobottka, Richard, 4,675,122, Cl. 252-28.000.

Grace, James A.: *See—*
- Book, William J.; Scott, Julian C.; and Grace, James A., 4,679,113, Cl. 361-40.000.

Grace, Mary D.: *See—*
- Grace, Ronald; and Grace, Mary D., 4,691,827, Cl. 206-465.000.

Grace, Oscar M.: *See—*
- Ramlow, Gerhard G.; Heyman, Duane A.; Grace, Oscar M.; Reichel, Curtis J.; and Hartman, Robert J., 4,689,354, Cl. 521-137.000.
- Ramlow, Gerhard G.; Heyman, Duane A.; and Grace, Oscar M., 4,690,956, Cl. 521-137.000.

Grace, Ronald; and Grace, Mary D. Supported package attached to panel in parallel slots. 4,691,827, 9-8-87, Cl. 206-465.000.

Grace, William G. Vehicle frame straightening apparatus. 4,658,628, 4-21-87, Cl. 72-450.000.

Grace, William G., to Repco Limited. Continuous or semi-continuous process for forming reconsolidated wood product. 4,695,345, 9-22-87, Cl. 156-264.000.

Grace, William G., to Repco Limited. Manufacture of reconsolidated wood products. 4,704,316, 11-3-87, Cl. 428-106.000.

Gracey, Doyle D. Cartridge case trimmer. 4,686,751, 8-18-87, Cl. 29-1.320.

Gracey, Howard E.: *See—*
- Freiberg, Leslie A.; Gracey, Howard E.; and Pernet, Andre G., 4,681,872, Cl. 514-29.000.

Gracia, D. Enrique Sancho, to Andia Louvers, S.A. Device for securing profiles for concealed suspension lattice work ceilings. 4,663,911, 5-12-87, Cl. 52-484.000.

Graciotti, Alessandro; and Kutscha, Herbert A., to Ing. C. Olivetti & C., S.p.A. Video converter. 4,713,779, 12-15-87, Cl. 364-521.000.

Graciotti, Alessandro, to Ing. C. Olivetti. Bus converter. 4,716,527, 12-29-87, Cl. 364-200.000.

Graco Inc.: *See—*
- Harriman, Charles E.; and Nu, Donald S., 4,679,989, Cl. 417-238.000.
- Hemming, Dale R., 4,688,644, Cl. 169-61.000.
- Krohn, Duane D., 4,652,024, Cl. 285-111.000.
- Krohn, Duane D.; and Boogerman, Allan, 4,692,048, Cl. 401-197.000.
- Kwok, Kui-Chiu; and Lind, Robert J., 4,660,774, Cl. 239-708.000.
- Kwok, Kui-Chiu, 4,684,064, Cl. 239-223.000.
- Mommsen, Gordon V.; Fender, Norman N.; Karwoski, Stanley G.; Scherer, William C.; and Lind, Robert J., 4,679,734, Cl. 239-692.000.
- Mommsen, Gordon V., 4,682,735, Cl. 239-690.000.
- Murphy, Edward P., 4,676,685, Cl. 401-285.000.
- Murphy, Edward P., 4,700,741, Cl. 137-543.190.
- O'Hara, John G.; Powers, Frederick A.; and Peter, Steven E., 4,681,516, Cl. 417-259.000.
- Powers, Fredrick A., 4,653,532, Cl. 137-563.000.
- Scherer, William C.; Tam, Jimmy W.; and Luebeck, Duane A., 4,685,621, Cl. 239-288.000.

Graco Metal Products: *See—*
- Brownlie, Alan; and Saint, Nathaniel, 4,688,850, Cl. 297-270.000.

Graco Robotics, Inc.: *See—*
- Fender, Norman N., 4,644,897, Cl. 118-323.000.
- Fender, Norman N., 4,673,376, Cl. 464-158.000.

Gracovetsky, Serge, to Diagnospine Research Inc. Equipment for the detection of mechanical injuries in the lumbar spine of a patient, using a mathematical model. 4,655,227, 4-7-87, Cl. 128-781.000.

Gracovetsky, Serge, to Diagnospine Research Inc. Method and equipment for the detection of mechanical injuries in the lumbar spine of a patient. 4,664,130, 5-12-87, Cl. 128-781.000.

Gracovetsky, Serge, to Diagnospine Research Inc. Non invasive method and equipment for the detection of torsional injuries in the lumar spine of a patient. 4,699,156, 10-13-87, Cl. 128-781.000.

Gradall Company, The: *See—*
- Fought, Gerald E., 4,700,802, Cl. 180-324.000.
- Fought, Gerald E., 4,705,295, Cl. 280-754.000.
- Gano, John W., 4,705,450, Cl. 414-687.000.
- Headrick, C. Ronald, 4,651,846, Cl. 180-243.000.

Gradco Systems, Inc.: *See—*
- Lawrence, Frederick J., 4,691,914, Cl. 271-297.000.

Grade, Marsha M.: *See—*
- Cella, James A.; Grade, Marsha M.; and Evans, Thomas L., 4,690,997, Cl. 528-26.000.
- Evans, Thomas L.; and Grade, Marsha M., 4,675,366, Cl. 525-435.000.

Grade, Reinhardt: *See—*
- Lorenz, Joachim; and Grade, Reinhardt, 4,659,359, Cl. 71-67.000.

Gradecki, Raymond J.; McLaughlin, James M.; and Sorensen, Gerald R., to NCM International, Inc. Carpet display stand. 4,697,710, 10-6-87, Cl. 211-45.000.

Gradeff, Peter S.; Schreiber, Fred G.; Charte, Vincent J.; and Davison, John F., to Rhone-Poulenc Inc. Process for preparing colloidal ceric oxide and complexes thereof with free organic acids. 4,647,401, 3-3-87, Cl. 252-309.000.

Gradeff, Peter S.; and Schreiber, Fred G., to Rhone-Poulenc, Inc. Process for the preparation of ceric alkoxides. 4,663,439, 5-5-87, Cl. 534-15.000.
Gradeff, Peter S.; and Schreiber, Fred G., to Rhone-Poulenc, Inc. Tricyclopentadienyl cerium and process for preparing the same. 4,703,109, 10-27-87, Cl. 534-15.000.
Gradel, Gerhard; Wahode, Peter; and Dorr, Wolfgang, to Kraftwerk Union Aktiengesellschaft. Method for determining the contents of a fuel rod. 4,663,112, 5-5-87, Cl. 376-245.000.
Gradel, Gerhard: *See—*
  Dorr, Wolfgang; Gradel, Gerhard; and Peehs, Martin, 4,671,904, Cl. 264-0.500.
Grader, Ronald J., to Union Carbide Corporation. Pressure swing adsorption process for supplying oxygen under variable demand conditions. 4,643,743, 2-17-87, Cl. 55-26.000.
Gradiant Pty Limited: *See—*
  Margolis, Joel, 4,707,233, Cl. 204-182.300.
Gradin, James H., to Sundstrand Data Control, Inc. Aircraft video projection system. 4,639,106, 1-27-87, Cl. 353-13.000.
Gradinger, J. Gary; Quearry, Robert W.; Chalfant, Robert D.; and Wilson, Charles G., to Golden Star, Inc. Mop yarns made by fiber bonding process. 4,644,741, 2-24-87, Cl. 57-256.000.
Gradl, David A.; and Krueger, James R., to American Telephone & Telegraph Company, AT&T Bell Laboratories. Power supply with regulated output voltage. 4,704,670, 11-3-87, Cl. 363-21.000.
Gradl, Reinhard; and Heymer, Gero, to Hoechst Aktiengesellschaft. Process for making an alkali phosphate solution. 4,678,650, 7-7-87, Cl. 423-309.000.
Gradl, Reinhard: *See—*
  Kolkmann, Friedrich; Ressel, Herbert; Gradl, Reinhard; and Schimmel, Gunther, 4,683,127, Cl. 423-321.00R.
  Schimmel, Gunther; and Gradl, Reinhard, 4,64 824, Cl. 423-185.000.
  Schimmel, Gunther; Gradl, Reinhard; and Heymer, Gero, 4,668,492, Cl. 423-321.00R.
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  Schimmel, Gunther; and Gradl, Reinhard, 4,713,229, Cl. 423-321.00R.
Gradnitzer, Eckhard; and Klautschek, Herwig, to Siemens Aktiengesellschaft. Electrical short-cicruit monitoring arrangement for variable-speed, three-phase motors, including their feed lines. 4,682,263, 7-21-87, Cl. 361-31.000.
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Gradowski, Steven: *See—*
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Grage, Ludger, to Siemens Aktiengesellschaft. Optical system for the simultaneous reception of thermal and laser radiation. 4,713,544, 12-15-87, Cl. 250-334.000.

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Graham, Albert N. Locking thread saver. 4,643,456, 2-17-87, Cl. 285-18.000.

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Graham, Donald E.; Kowalik, James J.; and Kade, Alexander, to General Motors Corporation. Synchronizing wiper control. 4,665,488, 5-12-87, Cl. 364-424.000.

Graham, Douglas A. Collapsible foldaway dinghy. 4,697,540, 10-6-87, Cl. 114-354.000.

Graham, Everett S., to Polysar Limited. Agglomeration. 4,680,321, 7-14-87, Cl. 523-335.000.

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Graham, Gary A. Active/passive exercise apparatus. 4,706,953, 11-17-87, Cl. 272-120.000.

Graham, George A.; and Dearth, Leonard R., to National Emstop, Inc. Safety back-up system for vehicles. 4,664,218, 5-12-87, Cl. 180-272.000.

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- Cordeiro, Craig A.; and Graham, John P., 4,680,788, Cl. 379-93.000.

Graham, Kenneth W.; Norton, Edward J.; and Kurata, Shuhei, to New Balance Athletic Shoe, Inc. Sole construction for footwear. 4,654,983, 4-7-87, Cl. 36-30.00R.

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- Smith, John R.; Kenny, Thomas J.; Graham, Kingsley F.; Neuner, James A.; Bauman, Douglas A.; Thompson, Timothy F.; Wassel, William W.; Rao, Dhulipala M.; and Theriault, David G., 4,642,636, Cl. 340-870.040.

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Graham, Marshall D.; and Graham, William G., to Coulter Electronics, Inc. Flux diverting flow chamber for high gradient magnetic separation of particles from a liquid medium. 4,664,796, 5-12-87, Cl. 210-222.000.

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Graham, Neil A., to AE PLC. Oil cleaning assemblies for engines. 4,640,772, 2-3-87, Cl. 210-295.000.

Graham, Olin L., to United States of America, National Aeronautics and Space Administration. Method and apparatus for telemetry adaptive bandwidth compression. 4,682,225, 7-21-87, Cl. 358-133.000.

Graham, Patricia A.: *See—*
- Cronch, Darell D.; Fisher, Richard T.; Graham, Patricia A.; and Passafiume, John E., 4,706,008, Cl. 318-696.000.

Graham-Patten Systems, Inc.: *See—*
- Rorden, William L., 4,686,689, Cl. 375-81.000.

Graham, Paul R.: *See—*
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Graham, Paul W. L.: *See—*
- Ahl, Alan D.; Billmaier, Joseph F.; Graham, Paul W. L.; Schenk, Mark B.; and Zylka, Stephen H., 4,691,830, Cl. 209-523.000.

Graham, Phyllis: *See—*
- Calder, Oliver J., 4,715,537, Cl. 239-119.000.

Graham, Ralph E.; and Zambory, Tyler T., to Vigorobics Invigorating Machine, Inc. Stress reduction and hypovolemic shock prevention spa. 4,670,919, 6-9-87, Cl. 4-541.000.

Graham, Randall C., to Essex Group, Inc. Wire tangle sensor. 4,635,046, 1-6-87, Cl. 340-677.000.

Graham, Randall C., to Essex Group, Inc. Dry lube level sensor. 4,644,332, 2-17-87, Cl. 340-624.000.

Graham, Randall C., to Essex Group, Inc. Wire runtogether sensor. 4,695,830, 9-22-87, Cl. 340-677.000.

Graham, Randolph H.: *See—*
- Harrison, Joel N.; Condito, Vincent A.; Graham, Randolph H.; Nixon, Brian J.; and Simonsen, Richard C., 4,639,798, Cl. 360-73.000.
- Harrison, Joel N.; Moon, William G.; and Graham, Randolph H., 4,639,863, Cl. 364-200.000.
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Graham, Richard P., Sr. Instant T.V. penalty flag alert system. 4,647,969, 3-3-87, Cl. 358-142.000.

Graham, Robert. Tone arm assembly. 4,686,664, 8-11-87, Cl. 369-55.000.

Graham, Robert F., Jr.: *See—*
- Buddecke, Charles L.; and Graham, Robert F., Jr., 4,697,157, Cl. 331-78.000.

Graham, Robert R.: *See—*
- O'Donnell, Michael S.; and Graham, Robert R., 4,715,394, Cl. 137-38.000.

Graham, Rodney E., to Disposable Waste Systems, Inc. Fluid pressure assisted rotary shaft seal with grooved seal wedge. 4,707,150, 11-17-87, Cl. 384-481.000.

Graham, Samuel L., to Merck & Co., Inc. Substituted thiophene-2-sulfonamide antiglaucoma agents. 4,665,090, 5-12-87, Cl. 514-445.000.

Graham, Samuel L.: *See—*
- Shepard, Kenneth L.; and Graham, Samuel L., 4,668,697, Cl. 514-443.000.

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Graham, Teresita O., to Duracell Inc. Electrochemical cells having a gelled anode-electrolyte mixture. 4,681,698, 7-21-87, Cl. 252-182.100.

Graham, Thomas; Perrins, Leslie A.; and Morris, Kevin, to Reed International plc. Paint containers. 4,691,838, 9-8-87, Cl. 220-93.000.

Graham-Troll, Dennis, to Molins PLC. Paper feed for cigarette making machines. 4,696,310, 9-29-87, Cl. 131-105.000.

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Graham, William G.: *See—*
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Graham, William J., to RCA Corporation. Reflector antenna system having reduced blockage effects. 4,689,632, 8-25-87, Cl. 343-781.00P.

Graham, William M.; Vaughn, Wade C.; and Inman, Charles M., to CooperVision, Inc. Method and apparatus for packaging an intraocular lens. 4,697,697, 10-6-87, Cl. 206-5.100.

Grahame, Arnold. Cuticle manicuring device. 4,643,207, 2-17-87, Cl. 132-73.600.

Grahm, Robert D. Folding hand knife. 4,672,743, 6-16-87, Cl. 30-153.000.

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Grahn, Allen R.; and Astle, Lynn. Multicomponent force-torque sensor. 4,704,909, 11-10-87, Cl. 73-862.040.

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Graiff, Leonard B.; and Holmes, Robert T., to Shell Oil Company. Controlled release insert for a diesel fuel supply nozzle and method of adding a petroleum substrate over said insert. 4,687,034, 8-18-87, Cl. 141-69.000.

Graiff, Leonard B.: *See—*
- Holmes, Robert T.; Evans, Terence M.; King, Keith; and Graiff, Leonard B., 4,678,479, Cl. 44-57.000.

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- Kiser, Donald L., 4,696,720, Cl. 203-19.000.
- Morehouse, Alpha A.; and Sander, Pamela A., 4,699,669, Cl. 127-30.000.
- Morehouse, Alpha L.; and Krone, Pamela A., 4,684,410, Cl. 127-40.000.
- Morehouse, Alpha L.; and Sander, Pamela A., 4,689,088, Cl. 127-30.000.

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Ramsden, Steven L., 4,713,345, Cl. 435-303.000.

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Murray, Eric S. A., 4,658,434, Cl. 383-66.000.

Graindorge, Philippe; Arditty, Herve; and Lefevre, Herve, to Thomson-CSF. Device for measuring a nonreciprocal phase shift produced in a closed-loop interferometer. 4,705,399, 11-10-87, Cl. 356-350.000.

Graiver, Daniel; and Kalinowski, Robert E., to Dow Corning Corporation. Adhesion of silicone elastomers obtained from aqueous emulsion. 4,710,405, 12-1-87, Cl. 427-387.000.

Grajek, Leonard A., to Velvac, Inc. Lock protector for fuel cap. 4,706,841, 11-17-87, Cl. 220-375.000.

Grallert, Hans-Joachim; and Liegl, Werner, to Siemens Aktiengesellschaft. Arrangement for multiplexing luminance and chrominance code words of variable length. 4,651,194, 3-17-87, Cl. 358-13.000.

Grallert, Hans-Joachim, to Siemens Aktiengesellschaft. Differential pulse code modulation coder. 4,658,239, 4-14-87, Cl. 340-347.0AD.

Gram, James A.: *See*—

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Grambow, Hans J.: *See*—

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Gramelspacher, George W. Mail box structure. 4,712,731, 12-15-87, Cl. 232-17.000.

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Gramlich, Walter; Halbritter, Klaus; and Heilen, Gerd, to BASF Aktiengesellschaft. Preparation of alpha-substituted β-dicarbonyl, β-cyano-carbonyl and β-dicyano compounds. 4,684,743, 8-4-87, Cl. 558-374.000.

Gramlich, Walter; and Siegel, Hardo, to BASF Aktiengesellschaft. 2-substituted 4,4,7,7-tetramethyl-1,3-dioxacycloheptanes, preparation and use thereof as scents. 4,707,302, 11-17-87, Cl. 512-11.000.

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Degner, Dieter; Gramlich, Walter; Hoffmann, Werner; and Schuster, Ludwig, 4,654,167, Cl. 252-522.00R.

Gramling, William D. Dual-action retrieving tool for oil well swabs. 4,700,775, 10-20-87, Cl. 166-98.000.

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Grassl, Johann, 4,684,100, Cl. 248-550.000.

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Grampa, Fulvio: *See*—

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Grams, Christiane: *See*—

Zsida, Attila, 4,682,582, Cl. 126-440.000.

Grams, Ralph R. Marine coating compositions and method. 4,678,512, 7-7-87, Cl. 106-18.320.

Gramze, Paul E.: *See*—

Bodine, Jane A.; Deihl, Charles J.; Deihl, Henry A.; Gramze, Paul E.; and Kiel, Monty, 4,666,157, Cl. 273-32.00H.

Gran, Paul; Feiner, Haim; Ben-Dayan, Nissim; Stefanu, Marian; and Mar-Chaim, Yechiam, to Motorola, Inc. Signal processing unit. 4,638,453, 1-20-87, Cl. 364-900.000.

Granat, Rodney J., to ACI Australia Limited. Container closure. 4,694,969, 9-22-87, Cl. 215-252.000.

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Granata, Samuel J., Jr.; and Woodle, Boyd M., to United States of America, Energy. Fuel cell plates with skewed process channels for uniform distribution of stack compression load. 4,684,582, 8-4-87, Cl. 429-39.000.

Granata, Saverio, to AGIP, S.p.A. Measuring head for determining the pressure of fission gases released inside bars of nuclear fuel. 4,645,636, 2-24-87, Cl. 376-247.000.

Granberg, Bertil, to Kamyr AB. Method for control of the function of a centrifugal pump. 4,673,330, 6-16-87, Cl. 415-1.000.

Granberg, Dirk N., to A. O. Smith Corporation. High efficiency water heater. 4,651,714, 3-24-87, Cl. 126-378.000.

Granberg, Elof. Open frame traction system. 4,664,101, 5-12-87, Cl. 128-84.00R.

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Granberg, William J.; Wagner, Richard A.; and Hundt, Gary W., to Essex Environmental Industries, Inc. Rotationally molded salvage drum and recessed lid. 4,709,833, 12-1-87, Cl. 220-319.000.

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Gentry, Charles B.; and Dietz, David R., 4,675,826, Cl. 364-477.000.

Grand, Guy C., to Compagnie Francaise del Isolants. Strain relief device. 4,666,229, 5-19-87, Cl. 339-104.000.

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Anthony, Myron L., 4,695,448, Cl. 423-659.000.

Grand, Marcel: *See*—

Mosnier, Michel; and Grand, Marcel, 4,652,583, Cl. 514-461.0

Grand Royalties, Ltd.: *See*—

Comstock, Todd M., 4,693,681, Cl. 431-324.000.

Grand Slam Archery, Ltd.: *See*—

Schaar, John, 4,669,445, Cl. 124-23.00R.

Grand Slam, Inc.: *See*—

Lay, William C., 4,681,318, Cl. 273-26.00R.

Grandchamp, Pierre-Andre: *See*—

Abbott, John G.; Burckhardt, Christoph B.; Grandchamp, Pie Andre; Krummenacher, Peter; and Schlaepfer, Cl 4,649,926, Cl. 128-660.000.

Abbott, John G.; Burckhardt, Christoph B.; Grandchamp, Pie Andre; Krummenacher, Peter; and Schlaepfer, Cl 4,674,514, Cl. 128-660.000.

Fehr, Rainer; Grandchamp, Pierre-Andre; and Krummenache Peter, 4,649,927, Cl. 128-660.000.

Grandclement, Gerard, to Societe Anonyme Nonnegasgne Tostiam Process for the control of the welding time of an electrical weld union. 4,684,417, 8-4-87, Cl. 156-64.000.

Grande, Robert: *See*—

Van Dam, Mathieu J. D.; De Lange, Harrie R.; and Grande, R bert, 4,664,807, Cl. 210-635.000.

Grande, Vincent J.: *See*—

Spiegelman, Stanley R.; Miller, Philip E.; Washington, Natha and Grande, Vincent J., 4,659,898, Cl. 219-117.100.

Grander, William R., to Grander, William R.; and Feel & Swing Co Corporation. Golf swing training device. 4,662,640, 5-5-87, Cl. 27 183.00B.

Grandi, Maria: *See*—

Pirali, Giorgio; Grandi, Maria; Pagani, Hermes; Paternost Manuela; Tamoni, Giorgio; and Cassani, Giovanni, 4,692,3 C 424-122.000.

Grandin, Claude; Champagneux, Daniel; and d'Aprigny, Philippe, to Union Laitiere Normande. Moulding device for the manufac of semi-hard pressed cheese. 4,676,475, 6-30-87, Cl. 249-105.000.

Grandin, Roland E.: *See*—

Milligan, Barton; Starner, William E.; Grandin, Roland E.; a Casey, Jeremiah P., 4,683,279, Cl. 528-67.000.

Grandinetti, Paul M. Pivoting bar lock. 4,711,479, 12-8-87, C 292-272.000.

Grandinetti, Tony: *See*—

Pora, Tom; and Grandinetti, Tony, 4,702,098, Cl. 72-351.00

Grandjean, Richard, to Compagnie Industrielle de Mecanismes aorege C.I.M. Door latch assembly, in particular for an automo vehicle. 4,712,817, 12-15-87, Cl. 292-336.300.

Grandmaire, Jean-Paul; and Jacques, Alain, to Colgate-Palmoli Company. Concentrated fabric softening composition and metho for making same. 4,661,270, 4-28-87, Cl. 252-8.750.

Grandmont, Paul E.: *See*—

Lake, Harold; and Grandmont, Paul E., 4,666,818, Cl. 430-25.00

Grandmottet, Pierre: *See*—

Blum, Dominique; Grandmottet, Pierre; and Bechtel, Pier 4,686,624, Cl. 364-415.000.

Grandoe Corporation: *See*—

Ross, Charles, Jr., 4,662,006, Cl. 2-158.000.

Grandos, Norman, to Magnavox Government and Industrial Electro ics Company. Target range sensing apparatus. 4,660,040, 4-21-87, C 342-128.000.

Grandstaff, Teddy H.: *See*—

Allen, John L., Jr.; and Grandstaff, Teddy H., 4,660,147, C 364-468.000.

Grandt, Kenneth G., to Kristie Products Inc. Double-acting pinch impact tool. 4,703,549, 11-3-87, Cl. 29-426.500.

Grandvallet, Gilles: *See*—

Volland, Michel; Fourneaux, Roger; and Grandvallet, Gill 4,651,785, Cl. 139-435.000.

Grandvallet, Pierre: *See*—

Courty, Philippe; Durand, Daniel; Forestiere, Alain; and Grandval let, Pierre, 4,675,343, Cl. 518-713.000.

Grandy, Mark E., to Baird Corporation. Mobile spectrometric appa tus. 4,641,968, 2-10-87, Cl. 356-313.000.

Granell, Jose O. O.: *See*—

Arechaga, Sabastian J.; Granell, Jose O. O.; Linan, Carmen S Vallejo, Alfonso P.; and Gabarro, Jose A. P., 4,690,945, C 514-448.000.

Graner, Joseph R., to Heyl & Patterson, Inc. Car dumping apparatu 4,690,603, 9-1-87, Cl. 414-372.000.

Granett, Dan: *See*—

Wang, Taylor G.; Granett, Dan; and Akutagawa, Wesley M. 4,645,442, Cl. 425-6.000.

Granetzke, Dennis C., to Modine Manufacturing Company. Heat trans fer device for oil temperature regulator. 4,633,939, 1-6-87, C 165-154.000.

Granetzke, Dennis C.: *See*—

Struss, Rodney A.; Costello, Norman F.; and Granetzke, Dennis C. 4,651,816, Cl. 165-76.000.

Granfors, Paul R.: *See*—

McDaniel, David L.; Granfors, Paul R.; and Hoffman, David M 4,686,369, Cl. 250-385.000.

Grange, Yves: *See*—

Ferrand, Bernard; and Grange, Yves, 4,666,681, Cl. 422-248.00

Granger Associates: *See*—

Hoover, William G., 4,635,070, Cl. 343-852.000.

Werner, William L.; and DuHamel, Raymond H., 4,656,485, Cl. 343-876.000.

Granger, Douglas A., to Aluminum Company of America. Architectural product. 4,715,901, 12-29-87, Cl. 148-2.000.

Granger, Douglas A.: *See—*

Kersker, Michael M.; Truckner, William G.; Granger, Douglas A.; and Rooy, Elwin L., 4,681,736, Cl. 420-535.000.

Yu, Ho; and Granger, Douglas A., 4,709,747, Cl. 164-487.000.

Granger, Maurice. Means for distribution and simultaneously cutting bands of rolled material with at least one roll of material in use. 4,635,837, 1-13-87, Cl. 225-96.000.

Granger, Maurice. Automatic dispenser of pre-cut and Z-wrapped or folded web materials. 4,648,530, 3-10-87, Cl. 221-34.000.

Granger, Robert A. Lathe mounting apparatus. 4,708,041, 11-24-87, Cl. 82-40.00R.

Granges Aluminum Aktiebolag: *See—*

Kagstrom, Per-Olof; and Abrahamsson, Lars, 4,682,990, Cl. 55-80.000.

Grangette, Henri; Linares, Michel; Bossand, Bernard; and Faure, Alain, to Societe Anonyme Elf France. Protection of hydrocarbons against the action of microorganisms. 4,708,720, 11-24-87, Cl. 44-51.000.

Grangette, Henri: *See—*

Torck, Bernard; Amigues, Pierre; Glaize, Yves; Grangette, Henri; Laurent, Jean; and Fitoussi, Fred, 4,647,703, Cl. 568-697.000.

Grangroth, Robert H.; and Loy, Jerald M., to Honeywell Inc. Integrated circuit interface. 4,649,339, 3-10-87, Cl. 324-158.00F.

Granier, Georges; and Valliere, Yves, to Societe Nationale des Poudres et Explosifs. Ultrarapid gas generator with increased safety. 4,690,063, 9-1-87, Cl. 102-530.000.

Granieri, Luigi, to GN/PI de Luigi Granieri e Figli, S.n.c. In a building a cornice between a wall and a ceiling both made of modular panels. 4,689,925, 9-1-87, Cl. 52-94.000.

Granieri, Luigi. Multistoried aseismic building made of modular panels. 4,697,398, 10-6-87, Cl. 52-236.800.

Granite State Packing Company, Inc.: *See—*

Sheehy, Roger C.; and Muskat, Irwin, 4,680,186, Cl. 426-129.000.

Sheehy, Roger C.; and Muskat, Irwin, 4,680,187, Cl. 426-129.000.

Graniteville Company: *See—*

Reid, James S., 4,636,423, Cl. 428-196.000.

Granitz, Fritz: *See—*

Kriegner, Othmar; Lang, Franz; Hollers, Gunter; Schwaha, Karl; and Granitz, Fritz, 4,687,141, Cl. 239-520.000.

Granitz, Richard F.: *See—*

Gingerich, David J.; Granitz, Richard F.; Rose, William H.; and Shaffer, David T., 4,673,837, Cl. 310-239.000.

Granlund, Dan: *See—*

Svensson, Assar; and Granlund, Dan, 4,714,302, Cl. 305-35.0EB.

Granlund, Ingvar, to Axhamre International AB. Rotary stand. 4,648,574, 3-10-87, Cl. 248-349.000.

Grannemann, Gerhard: *See—*

Rathert, Horst; Grannemann, Gerhard; and Erdboris, Ulrich, 4,681,500, Cl. 412-33.000.

Grannen, Walter A., III, to E-W Mold & Tool Co., Inc. Injection mold with side and end core locks for forming a partitioned container. 4,676,731, 6-30-87, Cl. 425-570.000.

Grano, Frank J.: *See—*

Geering, Emil J.; and Grano, Frank J., 4,712,711, Cl. 220-457.000.

Granot, Daniel; Siev, Ahron; and Derfler, Freddy, to State of Israel, Ministry of Defence, Rafael Armament. Method and apparatus for feeding sheets, particularly fabrics from a stack. 4,635,917, 1-13-87, Cl. 271-9.000.

Granot, Daniel; Servi, Rami; and Armoza, Ehud, to State of Israel, Ministry of Defence, Rafael Armament Development Authority. Sheet feeding apparatus including an edge-aligning device. 4,703,926, 11-3-87, Cl. 271-90.000.

Granot, Daniel: *See—*

Servi, Rami; Edelberg, Boaz; Granot, Daniel; Armoza, Ehud; and Sher, Ephraim, 4,708,333, Cl. 270-45.000.

Granqvist, Iage H.: *See—*

Bylehn, Bo V. S.; and Granqvist, Iage H., 4,708,829, Cl. 261-62.000.

Granryd, Thorvald G. High performance drive tire arrangement for agricultural tractors. 4,694,872, 9-22-87, Cl. 152-216.000.

Granstrom, Bengt P. O.; and Skogberg, Bo T., to Atlas Copco Aktiebolag. Expansion body. 4,661,021, 4-28-87, Cl. 405-244.000.

Grant, Alan H. Bottle neck with retaining lip for stopper. 4,645,096, 2-24-87, Cl. 222-153.000.

Grant, Alan H. Meniscas-shaped container. 4,657,159, 4-14-87, Cl. 222-83.000.

Grant, Alan H. Barbed lid closure. 4,690,291, 9-1-87, Cl. 215-32.000.

Grant, Arie L. Headmat. 4,662,014, 5-5-87, Cl. 5-501.000.

Grant, Arie L. Protective curl hair style pillow case. 4,706,314, 11-17-87, Cl. 5-490.000.

Grant, Barbara Ann: *See—*

Grant, Willson B. D., 4,648,501, Cl. 198-397.000.

Grant, Barrie D.: *See—*

Ratzlaff, Marc H.; Frame, John M.; and Grant, Barrie D., 4,703,217, Cl. 310-338.000.

Grant, Brian T. Container holder. 4,708,273, 11-24-87, Cl. 224-252.000.

Grant, Casey C.; and Peterson, Parker, to Kidde, Inc. Method and apparatus for extinguishing fires in flammable liquid filled storage vessels. 4,664,199, 5-12-87, Cl. 169-46.000.

Grant, Charles B.: *See—*

Gray, Trevor E.; Grant, Charles B.; and Dietsche, Thomas J., 4,672,125, Cl. 546-345.000.

Grant, David: *See—*

Tease, Barry; and Grant, David, 4,667,782, Cl. 191-12.00R.

Grant, David J.; and Vignola, Andrew M., Sr., to Advest Group, Inc., The. Banking/brokerage computer interface system. 4,694,397, 9-15-87, Cl. 364-408.000.

Grant, Duane E.: *See—*

Byerly, Kent A.; Feldhacker, Marvin E.; and Grant, Duane E., 4,692,877, Cl. 364-514.000.

Grant, Edward D., Jr.: *See—*

Atherton, George A.; Dickakian, Ghazi B.; and Grant, Edward D., Jr., 4,686,048, Cl. 210-771.000.

Grant, Elwyn E.; Lafevers, James O.; and Tribble, Richard P. Apparatus for completing a customer initiated ATM transaction. 4,660,168, 4-21-87, Cl. 364-900.000.

Grant, Eric M.; and Walker, Edward, to Carl Freudenberg, Firma. Textile interlining material having anisotropic properties. 4,647,492, 3-3-87, Cl. 428-198.000.

Grant, George S., to Ferranti, plc. Dither mechanism for ring laser gyroscope. 4,702,602, 10-27-87, Cl. 356-350.000.

Grant, Ian: *See—*

Beversdorf, Wallace D.; Erickson, Lawrence R.; and Grant, Ian, 4,658,084, Cl. 800-1.000.

Beversdorf, Wallace D.; Erickson, Lawrence R.; and Grant, Ian, 4,658,085, Cl. 800-1.000.

Grant, J. Wallace: *See—*

Crosbie, Richard J.; Colombo, Joseph; and Grant, J. Wallace, 4,667,678, Cl. 128-663.000.

Grant, James C.: *See—*

Baxter, Gordon D.; and Grant, James C., 4,708,837, Cl. 264-40.400.

Baxter, Gordon D.; Grant, James C.; and Garner, John N., 4,708,887, Cl. 427-118.000.

Grant, John T., to Maximal Security Products Ltd. Shock sensor switch. 4,686,335, 8-11-87, Cl. 200-61.45R.

Grant, John W.: *See—*

Wells, John R.; and Grant, John W., 4,663,058, Cl. 210-801.000.

Grant, Louis R.: *See—*

Artz, Glen D.; and Grant, Louis R., 4,673,528, Cl. 252-188.250.

Grant Machinery Inc.: *See—*

Cantrell, Larry K.; and Smith, Edwin J., 4,715,596, Cl. 271-116.000.

Grant, Michael L., to U.S. West Enterprises, Inc. Universal building entrance terminal. 4,673,771, 6-16-87, Cl. 174-38.000.

Grant, Patrick S.: *See—*

Nielsen, Max E.; Labrum, Joseph H.; and Grant, Patrick S., 4,679,215, Cl. 377-95.000.

Grant, Ralph M. Interferometric eye test method and apparatus. 4,650,302, 3-17-87, Cl. 351-206.000.

Grant, Ralph M.; Haskell, Richard E.; Paskus, Anthony; Windeler, Stanley R.; and Wright, Forrest S., to Industrial Holographics, Inc. Optical method and apparatus for strain analysis. 4,690,552, 9-1-87, Cl. 356-35.500.

Grant, Ralph M., to Industrial Holographics, Inc. Double exposure interferometric analysis of structures and employing ambient pressure stressing. 4,702,594, 10-27-87, Cl. 356-35.500.

Grant, Richard B. Integrated environment computer system control structure with natural language interface. 4,689,737, 8-25-87, Cl. 364-200.000.

Grant, Richard J.; Johnson, Gilbert C.; and Landin, Heather V., to Minnesota Mining and Manofacturing Company. Radiation-curable thermoplastic coating. 4,654,233, 3-31-87, Cl. 427-379.000.

Grant, Robert W., to FSI Corporation. Flow regulating valve for controlling the flow of corrosive fluids. 4,694,852, 9-22-87, Cl. 137-501.000.

Grant, Robert W.; and Waldman, Joshua P., to FSI Corporation. Bung connection. 4,699,298, 10-13-87, Cl. 222-400.700.

Grant, Ross M.: *See—*

Bradford, Michael P.; Parkinson, Gerald W.; and Grant, Ross M., 4,638,175, Cl. 307-64.000.

Grant, Thomas S.: *See—*

Jalbert, Ronald L.; and Grant, Thomas S., 4,654,405, Cl. 525-391.000.

Grant, William F.; Burt, Gary W.; and Kumnick, Albert J., to Avco Corporation. Filamentary structural module for composites. 4,697,324, 10-6-87, Cl. 29-419.00R.

Grant, Willie T. Rotational means for automatic damper means. 4,646,962, 3-3-87, Cl. 236-10.000.

Grant, Willie T. Remote control means for heating/cooling devices. 4,673,127, 6-16-87, Cl. 236-51.000.

Grant, Willson B. D., to Grant, Barbara Ann; and Grant, Willson Barratt David. Apparatus for sorting and aligning handles for cardboard boxes or the like and for supplying such to an insertion apparatus. 4,648,501, 3-10-87, Cl. 198-397.000.

Grant, Willson Barratt David: *See—*

Grant, Willson B. D., 4,648,501, Cl. 198-397.000.

Grantham, LeRoy F., to Rockwell International Corporation. Thermal conversion of wastes. 4,668,435, 5-26-87, Cl. 252-632.000.

Grantham, LeRoy F.: *See—*

Gay, Richard L.; and Grantham, LeRoy F., 4,636,336, Cl. 252-632.000.

Gay, Richard L.; and Grantham, LeRoy F., 4,689,178, Cl. 252-626.000.

Grantz, Helmut; and Odebrecht, Wolfgang, to Daimler-Benz Aktiengesellschaft. Lock arrangement for a motor vehicle door. 4,691,949, 9-8-87, Cl. 292-216.000.

Granulite Limited: *See—*

Walker, Bryan J., 4,683,006, Cl. 106-288.00R.

- Granville-Phillips Company: *See—*
  - Bills, Daniel G.; Arnold, Paul C.; Dodgen, Stephen L.; and Van Cleve, Craig B., 4,636,680, Cl. 313-7.000.
  - Morrison, Charles F., Jr., 4,714,891, Cl. 324-459.000.
- Granz, Bernd; Oppelt, Ralph; and Sachs, Bertram, to Siemens Aktiengesellschaft. Device for reading out a two-dimensional charge pattern by means of an array. 4,661,814, 4-28-87, Cl. 340-825.790.
- Granzer, Ernold; and Kampe, Klaus-Dieter, to Hoechst Aktiengesellschaft. 4-amino-2-(imidazolidin-2-on-1-yl)-5-(3-trifluoromethylphenyl)aminocarbonyl)pyrimidines for antithrombotic prophylaxis and treatment. 4,705,792, 11-10-87, Cl. 514-275.000.
- Granzer, Ernold: *See—*
  - Siegel, Herbert; and Granzer, Ernold, 4,647,575, Cl. 514-396.000.
- Granzow, Robert H.; and Gupta, Desh B., to NCR Corporation. Position control for a stacker wheel. 4,638,993, 1-27-87, Cl. 271-315.000.
- Granzow, Robert H.; Richard, Harold S.; and Hermann, Thomas L., to NCR Corporation. Tilt and swivel support. 4,645,153, 2-24-87, Cl. 248-178.000.
- Granzow, Robert H.; Placke, Dale L.; and Howett, Harry L., to NCR Corporation. Container having tamper-indicating means. 4,655,391, 4-7-87, Cl. 232-43.100.
- Granzow, Robert H.: *See—*
  - Filliman, Mark D.; and Granzow, Robert H., 4,656,662, Cl. 382-3.000.
  - Howett, Harry L.; Granzow, Robert H.; and Placke, Dale L., 4,659,008, Cl. 232-43.300.
- Grape, Wolfgang: *See—*
  - Alberts, Heinrich; Kussi, Siegfried; Grape, Wolfgang; and Schlak, Ottfried, 4,652,386, Cl. 252-49.600.
  - Goossens, John; Oppermann, Gunter; Grape, Wolfgang; and Hartel, Volker, 4,645,614, Cl. 252-75.000.
  - Goossens, John; Oppermann, Gunter; and Grape, Wolfgang, 4,702,855, Cl. 252-75.000.
- Grapentin, Manfred: *See—*
  - Spoler, Johannes G.; and Grapentin, Manfred, 4,646,647, Cl. 104-111.000.
- Grapha-Holding AG: *See—*
  - Boss, Heinz; and Weber, Walter, 4,684,118, Cl. 270-58.000.
  - Geiser, Peter, 4,652,198, Cl. 414-51.000.
  - Groth, Kurt, 4,674,377, Cl. 83-324.000.
  - Honger, Hanspeter, 4,674,934, Cl. 414-103.000.
  - Linder, Heinz; and Heutschi, Kurt, 4,667,950, Cl. 271-245.000.
  - Linder, Heinz, 4,683,708, Cl. 53-540.000.
  - Merkli, Peter; and Jermann, Daniel, 4,708,561, Cl. 412-25.000.
  - Muller, Hans, 4,651,941, Cl. 242-59.000.
  - Muller, Hans, 4,697,971, Cl. 412-33.000.
- Graphic Specialties, Inc.: *See—*
  - Aylor, John E.; and Villarreal, Jose A., 4,676,156, Cl. 101-148.000.
- Graphite Sales, Inc.: *See—*
  - Carlson, Walter H.; and Burmeister, Kevin L., 4,658,886, Cl. 164-526.000.
- Grapin, Michel M.: *See—*
  - Argy, Gilles; Grapin, Michel M.; and Marchal, Philippe, 4,660,861, Cl. 285-45.000.
- Grappendorf, Richard H.: *See—*
  - Bigelow, Louis K.; Grappendorf, Richard H.; and Meskin, Alexander R., 4,673,044, Cl. 175-329.000.
- Grare, Didier; and Salkin, Herve, to Vallourec. Process and device for executing the screwing of a threaded joint for tubes, equipped with a stop. 4,700,576, 10-20-87, Cl. 73-761.000.
- Gras-Masse, Helene: *See—*
  - Beachey, Edwin H.; Tartar, Andre; Gras-Masse, Helene; Jolivet, Michel; Audibert, Francoise; and Chedid, Louis, 4,695,562, Cl. 514-13.000.
- Gras, Rainer, to Chemische Werke Huls Aktiengesellschaft. One-component baking enamels. 4,649,067, 3-10-87, Cl. 427-388.200.
- Gras, Rainer; Riemer, Heinz; and Wolf, Elmar, to Huls Aktiengesellschaft. Storage-stabile polyurethane resin powder enamels or varnishes. 4,658,005, 4-14-87, Cl. 528-45.000.
- Graser, Franz; Langer, Werner; and Nowak, Reiner, to Robert Bosch GmbH. Electromagnetically actuatable valve. 4,705,210, 11-10-87, Cl. 239-585.000.
- Graser, Fritz; and Stange, Andreas, to BASF Aktiengesellschaft. Preparation of aerogels. 4,667,417, 5-26-87, Cl. 34-9.000.
- Grass, Alfred. Support and guide roller for extension guide. 4,647,225, 3-3-87, Cl. 384-19.000.
- Grass, Alfred, to Alfred Grass GmbH Metallwarenfabrik. Locking screw for the adjustable connection of a hinge strap. 4,671,716, 6-9-87, Cl. 411-156.000.
- Grass, Alfred. Single-joint door hinge with spring-loaded closing pressure and optionally opening pressure device. 4,675,941, 6-30-87, Cl. 16-295.000.
- Grass, Alfred. Furniture hinge with a lateral and depth adjustment fitting. 4,683,612, 8-4-87, Cl. 16-240.000.
- Grass, Alfred. Panel adjustment device for the front panel of drawers or the like. 4,690,469, 9-1-87, Cl. 312-330.00R.
- Grass Valley Group, Inc., The: *See—*
  - Abt, John; and Jackson, Richard A., 4,700,232, Cl. 358-183.000.
  - Dayton, Birney D.; and Stanger, Leon J., 4,654,696, Cl. 358-11.000
  - Dayton, Birney D.; and Bannister, Richard, 4,663,598, Cl. 330-288.000.
  - Dayton, Birney D.; and Bannister, Richard, 4,684,823, Cl. 307-247.00R.
  - Jackson, Richard A., 4,689,681, Cl. 358-183.000.
  - Jackson, Richard A., 4,689,682, Cl. 358-183.000.
  - Lake, David E., Jr., and Miller, Robert L., 4,698,666, C 358-22.000.
  - Lake, David E., Jr., 4,703,447, Cl. 364-724.000.
  - Trethewey, Paul M., 4,679,042, Cl. 340-754.000.
- Grassano, Vincent R. Shock-absorbent connector. 4,681,303, 7-21-8 Cl. 267-8.00R.
- Grassauer, Willie K., to Raychem Corporation. Chip carrier alignme device and alignment method. 4,646,435, 3-3-87, Cl. 29-840.000.
- Grassauer, Willie K.: *See—*
  - Noel, Raymond; Robinson, William M.; Cherian, Gabe; Cliffor Thomas H.; Carlomagno, William D.; Deasy, William M.; Gra auer, Willie K.; Haygood, David K.; Sherlock, H. Paul; an White, Harry E., 4,712,721, Cl. 228-56.300.
- Grassberger, Roland: *See—*
  - Knapp, Alfons; and Grassberger, Roland, 4,676,270, 137-625.400.
- Grasse, Hans-Jochen: *See—*
  - Gomann, Rolf; and Grasse, Hans-Jochen, 4,668,152, 414-403.000.
- Grasse, Klaus-Peter: *See—*
  - Dornbracht, Helmut; and Grasse, Klaus-Peter, 4,678,207, C 285-39.000.
- Grasse, Palmer, to Grasse, Palmer. Oscillated head and connecti element, with bearing support, for floor stripping machine. 4,669,7 6-2-87, Cl. 299-37.000.
- Grasselli, Robert K.: *See—*
  - Brazdil, James F.; Teller, Raymond G.; Bartek, Joseph P.; a Grasselli, Robert K., 4,665,259, Cl. 585-500.000.
  - Henderson, Richard S.; Tenhover, Michael A.; and Grasse Robert K., 4,696,703, Cl. 148-403.000.
  - Tenhover, Michael A.; Harris, Jonathan H.; and Grasselli, Rob K., 4,705,610, Cl. 204-95.000.
  - Ward, Michael D.; Brazdil, James F., Jr., and Grasselli, Robert K 4,655,891, Cl. 204-157.930.
- Grassens, Leonardus J.; and Janssen, Peter J., to Laser Magnetic St age International Company. Mechanical shock mount system f electrical apparatus. 4,683,520, 7-28-87, Cl. 361-427.000.
- Grasser, Hans: *See—*
  - Arnold, Werner; Grasser, Hans; Kruger, Tilmann; and Messe Alfred, 4,684,261, Cl. 368-107.000.
- Grasser, Katalin: *See—*
  - Lempert, Karoly; Hornyak, Gyula; Bartha, Ferenc; Dolesch Gabor; Fetter, Jozsef; Nyitrai, Jozsef; Simig, Gyula; Zac Karoly; Huszthy, Peter; Feller, Antal; Petocz, Lujza; Sz Eniko; Grasser, Katalin; Berenyi, Edit; Ori, Zsuzsanna a Pjeczka, Etelka, 4,665,083, Cl. 514-370.000.
  - Messmer, Andras; Batori, Sandor; Hajos, Gyorgy; Benko, P Pallos, Laszlo; Petocz, Lujza; Grasser, Katalin; and Kosocz Ibolya, 4,697,013, Cl. 544-183.000.
- Grasseschi, John J. Plumbing sealing system. 4,706,702, 11-17-87, C 137-360.000.
- Grasseschi, John J. Sprinkler assembly. 4,706,759, 11-17-87, C 169-51.000.
- Grassi, Gino, to GE. SV. IN. S.r.l. Bicuspid valve prosthesis for a auriculo-ventricular cardiac aperture. 4,655,773, 4-7-87, Cl. 623-2.00
- Grassi, Richard J.: *See—*
  - Rector, Robert E.; Taylor, Barry T.; and Grassi, Richard J 4,661,808, Cl. 340-735.000.
- Grassl, Erwin; and Waechtler, Rudolf, to Siemens Aktiengesellschaf Station for the accommodation of a chargeable cordless telephon 4,634,810, 1-6-87, Cl. 379-61.000.
- Grassl, Hans-Peter, to Siemens Aktiengesellschaft. Dispersive interdig ital transducer for arrangements operating with acoustic wave 4,701,657, 10-20-87, Cl. 310-313.00C.
- Grassl, Johann, to Grammer Sitzsysteme GmbH. Sprung vehicle se 4,684,100, 8-4-87, Cl. 248-550.000.
- Grassler, Walter F.: *See—*
  - Friesen, Albert D.; and Grassler, Walter F., 4,678,278, C 350-319.000.
- Grassmuck, Juergen. Method for regulating the bending stability road vehicles. 4,688,818, 8-25-87, Cl. 280-432.000.
- Grasso's Koninklijke Machinefabrieken N.V.: *See—*
  - Thijssen, Henricus A. C., 4,705,624, Cl. 210-96.100.
- Grate, John H.; and Hamm, David R., to Catalytica Associates; an Haldor Topsoe A/S. Process for the preparation of urethan 4,687,872, 8-18-87, Cl. 560-25.000.
- Grate, John H.; Hamm, David R.; and Valentine, Donald H. Catalytica Associates; and Haldor Topsoe A/S. Carbonylation pro cess. 4,705,883, 11-10-87, Cl. 560-25.000.
- Grate, John H.; and Hamm, David R., to Catalytica Associates; an Haldor Topsoe A/S. Process for the preparation of urethan 4,709,073, 11-24-87, Cl. 560-24.000.
- Graton, Michel; and Carmillet, Roger F., to Valeo. Clutch friction dis 4,697,683, 10-6-87, Cl. 192-107.00C.
- Graton, Michel: *See—*
  - Alas, Jacques; and Graton, Michel, 4,669,592, Cl. 192-106.200.
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  - Carmillet, Roger; Graton, Michel; and Bacher, Michel, 4,655,3 Cl. 192-106.200.
  - Carmillet, Roger; Graton, Michel; and Bacher, Michel, 4,674,9 Cl. 464-68.000.
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- Gratsch, Jack M. Device for forming a condensed area eliminating dart or a tuck. 4,667,859, 5-26-87, Cl. 223-52.000.

Gratt, Stanley H.: *See—*
Zaleski, Peter L., and Gratt, Stanley H., 4,634,545, Cl. 252-29.000.

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Kelly, John A.; Grattan, David A.; and Oberhofer, Alfred W., 4,657,785, Cl. 427-255.600.

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Grau, James A., to Schlumberger Technology Corporation. Methods and apparatus for borehole-corrected spectral analysis of earth formations. 4,661,701, 4-28-87, Cl. 250-270.000.

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Blanz, Roland, 4,673,172, Cl. 267-64.110.
Blanz, Rolanz, 4,697,822, Cl. 280-6.00H.

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Lounsbury, Charles W., Jr.; Graudons, Gary D.; and Rider, Paul J., 4,646,677, Cl. 118-653.000.

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Graul, Donald W.: *See—*
Kamel, Ahmed A.; Graul, Donald W.; Chan, Fred N. T.; and Gamble, Donald W., 4,688,091, Cl. 358-109.000.
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Graulty, Robert T.: *See—*
Cellier, Francis; Graulty, Robert T.; Johnson, Wendell L.; Batson, David M.; Limpert, John C.; Wu, Christopher K. C.; Bucher, George D.; John, Clarence D., Jr.; Steinkirchner, John E.; Larouere, Paula J.; Shah, Hemant H.; and Williams, Robert A., 4,687,605, Cl. 264-0.500.

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Graumann, Rainer, to Siemens Aktiengesellschaft. Nuclear magnetic resonance apparatus. 4,684,892, 8-4-87, Cl. 324-309.000.

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Gravel, James L.: *See—*
Brown, Gregory C.; and Gravel, James L., 4,638,830, Cl. 137-83.000.

Gravelle, Alain, to FRAGEMA. Method and device for detecting defective nuclear fuel elements. 4,684,493, 8-4-87, Cl. 376-252.000.

Gravelle, David E., to National Business Systems, Inc. Credit card imprinter with disabling means. 4,651,642, 3-24-87, Cl. 101-269.000.

Gravemann, Horst, to Kabel-und Metallwerke Gutehoffnungshuette AG. Mold for continuous casting and method of making. 4,702,299, 10-27-87, Cl. 164-137.000.

Graven, Richard G.; and Zahner, John C., to Mobil Oil Corporation. Fixed bed catalytic reactor system with improved liquid distribution. 4,681,674, 7-21-87, Cl. 208-59.000.

Gravenstein, Joachim S.; and Lampotang, Samsun, to University of Florida. Self-contained jet pump breathing apparatus. 4,702,241, 10-27-87, Cl. 128-204.250.

Graver Company, The: *See—*
Davis, Thomas A.; Bozenmayer, Kurt; and Butterworth, Donald J., 4,707,257, Cl. 210-274.000.
Flores, A. Roland, 4,683,025, Cl. 159-2.100.
Flynn, George C.; and Johnstone, Douglas S., 4,663,051, Cl. 210-675.000.
O'Connell, Robert T.; and Arywitz, Martin, 4,663,054, Cl. 210-713.000.

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Hoyle, William; and Graves, Jammie, 4,705,439, Cl. 409-136.000.

Graves, Joseph R. Solar system clock. 4,671,669, 6-9-87, Cl. 368-17.000.

Graves, Robert P., Jr.: *See—*
Burns, Ronald R.; and Graves, Robert P., Jr., 4,658,962, Cl. 206-554.000.

Graves, Rodney J., to E & J Enterprises, Inc. Animated dental floss dispenser. 4,635,660, 1-13-87, Cl. 132-92.00A.

Graves, Ross E., to Hughes Aircraft Company. Autocalibrating interferometer. 4,673,944, 6-16-87, Cl. 342-424.000.

Graves Spray Supply Company: *See—*
Muhlnickel, Donald L., Jr., 4,635,852, Cl. 239-414.000.

Graves, Victoria, to Exxon Research & Engineering Co. Polymerization catalyst. 4,665,262, 5-12-87, Cl. 585-512.000.

Graves, William H., Jr., to R. J. Reynolds Tobacco Company. Tobacco leaf processing. 4,702,264, 10-27-87, Cl. 131-370.000.

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Gravestock, Michael B.: *See—*
Clough, John M.; Lewis, Timothy; and Gravestock, Michael B., 4,636,247, Cl. 71-92.000.
Worthington, Paul A.; Crowley, Patrick J.; and Gravestock, Michael B., 4,655,820, Cl. 71-92.000.

Gravestock, Robert E., to Lucas Industries Public Limited Company. Fuel control system. 4,655,187, 4-7-87, Cl. 123-481.000.

Gravi-Mechanics Co.: *See—*
Dedolph, Richard R., 4,656,811, Cl. 53-559.000.

Graviner Limited: *See—*
Powell, Brian D.; and Spring, David J., 4,694,172, Cl. 250-339.000.
Spring, David J., 4,713,101, Cl. 62-8.000.

Gravure Association of America: *See—*
George, Harvey F.; and Oppenheimer, Robert H., 4,697,514, Cl. 101-170.000.

Grawey, Charles E., to Caterpillar Inc. Heat exchanger baffle plate. 4,643,249, 2-17-87, Cl. 165-159.000.

Grawey, Charles E.; and Winters, Scot L., to Caterpillar Inc. Method of forming a windowed unitary panel. 4,695,420, 9-22-87, Cl. 264-265.000.

Grawi, Franklin L.; and Magnan, Michael B., to Ford Motor Company. Integrated engine air cleaner and venturi resonator. 4,713,097, 12-15-87, Cl. 55-276.000.

Grawi, Robert S. Variable pitch harp. 4,637,290, 1-20-87, Cl. 84-173.000.

Grawi, Robert S. Walking ladder. 4,646,876, 3-3-87, Cl. 182-15.000.

Gray Automtive Products, Company: *See—*
Gray, Joseph L., 4,688,759, Cl. 254-1.000.

Gray, Barbara J. Power driven track shoe spike socket wrench. 4,679,468, 7-14-87, Cl. 81-121.100.

Gray, Bennie M.: *See—*
Link, Charles T.; Gray, Bennie M.; and Shumaker, Harold L., 4,696,223, Cl. 92-86.500.

Gray, Bruce A.: *See—*
Ramsey, Everett M.; Gray, Bruce A.; and Evans, Donald C., 4,715,810, Cl. 432-8.000.

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Gray, Charles F., Jr.; Meisenburg, Gary L.; and Zemlicka, Alvin, to Brunswick Corporation. Marine drive shift mechanism with detent canister centered neutral. 4,679,682, 7-14-87, Cl. 192-21.000.

Gray, Charles R. W.; and Crawford, Neville, to Garfield Weston Trust for Research into Heart Surgery, Trustees of the; Royal College of Surgeons of England, The; and British Postgraduate Medical Federation. Processes for the production of blood products. 4,680,177, 7-14-87, Cl. 424-101.000.

Gray, Danny J. Chain belt and method of manufacture. 4,642,982, 2-17-87, Cl. 59-35.100.

Gray, David J.: *See—*

  Nemec, Garrett P.; and Gray, David J., 4,665,891, Cl. 126-25.00R.

Gray, David K. Pneumatic gas cylinder valve actuator. 4,637,423, 1-20-87, Cl. 137-382.500.

Gray, Donald J.: *See—*

  Cooperman, Michael; Gray, Donald J.; Sieber, Richard W.; and Moolenbeek, Rob, 4,656,621, Cl. 370-59.000.

Gray, Donald R.; Green, Lawrence R. III; Gendler, Robert L.; and Carrott, John A., to Mets, Inc. Security monitoring and tracking system. 4,651,157, 3-17-87, Cl. 342-457.000.

Gray, Edward R.: *See—*

  Curry, Jay M.; Gray, Edward R.; Davis, Edward L.; Rollo, Edward J., Jr.; and Long, Paul D., Jr., 4,664,307, Cl. 228-145.000.

Gray, Edwin V., Sr. Efficient electrical conversion switching tube suitable for inductive loads. 4,661,747, 4-28-87, Cl. 315-330.000.

Gray, Floyd L.; Schubert, Thomas F.; Bradshaw, Kenneth M.; and Kolawole, Joshua O., to General Electric Company. Method for reduction of acoustical noise generated by magnetic field gradient pulses. 4,680,545, 7-14-87, Cl. 324-307.000.

Gray, Frank; and Hardin, Clyde M., Jr. Method of making clear dies from bar stock. 4,637,282, 1-20-87, Cl. 76-4.000.

Gray, Frederick W., to Colgate Palmolive Co. Bleaching and laundering composition containing magnesium monoperoxyphthalate a chelating agent, a peroxygen compound and phthalic anhydride. 4,664,837, 5-12-87, Cl. 252-99.000.

Gray, Gary L.: *See—*

  Donohie, Paul J.; Gray, Gary L.; and Capuano, Frank G., 4,679,694, Cl. 206-611.000.

Gray, Gary W.: *See—*

  Seel, Jerry E.; and Gray, Gary W., 4,653,748, Cl. 272-96.000.

Gray, George S. Line fault detector. 4,664,376, 5-12-87, Cl. 273-29.00R.

Gray, George W.; and Nicholas, Beatrice M., to United Kingdom of Great Britain and Northern Ireland, The Secretary of State for Defence in Her Britannic Majesty's Government of the. Heterocyclically substituted ethanes and their use in liquid crystal materials and devices. 4,698,176, 10-6-87, Cl. 252-299.610.

Gray, George W.: *See—*

  Balkwill, Peter H.; Bishop, David I.; Pearson, Andrew D.; Sage, Ian C.; Gray, George W.; Lacey, David; Toyne, Kenneth J.; and McDonnell, Damien G., 4,695,131, Cl. 350-350.00R.

  Fearon, Julie E.; Smith, Wendy E.; Gray, George W.; Lacey, David; Toyne, Kenneth J.; and Weber, Georg, 4,659,502, Cl. 252-299.610.

  Kam Ming Chan, Lawrence; Gray, George W.; Toyne, Kenneth J.; Lacey, David; Eidenschink, Rudolf; and Romer, Michael, 4,696,549, Cl. 350-350.00R.

Gray, James P.; Hansen, Peter J.; Lerner, Michael A.; and Pozefsky, Mark, to International Business Machines Corp. End user data stream syntax. 4,688,035, 8-18-87, Cl. 340-825.520.

Gray, James P.: *See—*

  Benjamin, Jay H.; Gray, James P.; Hayward, Royal C.; Hess, Matthew L.; McGriff, Frederick E.; Miller, Ellis L.; and Weingarten, Robert A., 4,677,588, Cl. 364-900.000.

Gray, James S.; Chamberlin, James W.; McBride, Alan L.; and Schreiner, Peter G., III, to Scientific Atlanta, Inc. Digital audio satellite transmission system. 4,660,196, 4-21-87, Cl. 370-109.000.

Gray, James W., to Rodig, R. Rick, a part interest. Can opener. 4,633,589, 1-6-87, Cl. 30-427.000.

Gray, Joel E., to Mayo Medical Resources. Slice thickness and contiguity phantom for a magnetic resonance imaging scanner. 4,692,704, 9-8-87, Cl. 324-318.000.

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Gray, John D., to Ex-Cell-O Corporation. Rotational mold for making multi-color plastic shells. 4,634,360, 1-6-87, Cl. 425-130.000.

Gray, John D., to Ex-Cell-O Corporation. Mold method for multi-color plastic shells. 4,692,293, 9-8-87, Cl. 264-245.000.

Gray, John D.: *See—*

  Triplett, Carol J., 4,686,808, Cl. 52-410.000.

  Triplett, Charles S.; and Gray, John D., 4,712,348, Cl. 52-408.000.

Gray, John R. Safety device for hang glider. 4,688,022, 8-18-87, Cl. 340-540.000.

Gray, Joseph L., to Gray Automtive Products, Company. Tiltable support stand for vehicles. 4,688,759, 8-25-87, Cl. 254-1.000.

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Gray, Kevin: *See—*

  Crosson, Peter; Sanchez, Terry; Gray, Kevin; and Goldstein, Samuel M., 4,690,658, Cl. 446-429.000.

Gray, Leslie F.: *See—*

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Gray, Michael J.; Langdon, Ian; and Woods, Barry J., to British Te communications plc. Video map display. 4,661,811, 4-28-87, C 340-744.000.

Gray, Michael L.; and Gibson, Kristie C., to Phillips Petroleum Co pany. Feed control for cryogenic gas plant. 4,698,080, 10-6-87, C 62-21.000.

Gray, Neal R.: *See—*

  Roehrig, Phillip J.; and Gray, Neal R., 4,675,347, Cl. 74-436.00

Gray, Nigel: *See—*

  Bowyer, William H.; Crocker, Robert L.; Hansford, Christophe M.; Parker, Leslie K.; and Gray, Nigel, 4,678,194, C 273-373.000.

Gray, Patrick. Board game. 4,635,938, 1-13-87, Cl. 273-274.000.

Gray, Peter V.: *See—*

  Adler, Michael S.; and Gray, Peter V., 4,656,493, Cl. 357-23.4

Gray, Philip J., to General Electric Company, p.l.c., The. Feed transmission lines. 4,677,405, 6-30-87, Cl. 333-245.000.

Gray, R. William: *See—*

  Adams, Donald T.; and Gray, R. William, 4,655,620, C 400-63.000.

Gray, Ralph. Flight for use on a conveyor belt. 4,712,668, 12-15-87, C 198-698.000.

Gray, Randall C.; Hess, Robert M.; Jarrett, Robert B.; and Li, Edw E., to Motorola, Inc. Comparator with substrate injection protectio 4,689,500, 8-25-87, Cl. 307-362.000.

Gray, Randall C., to Motorola, Inc. Voltage comparator with hyste sis. 4,710,793, 12-1-87, Cl. 357-44.000.

Gray, Reed A.; and Hyazk, Daniel L., to Stauffer Chemical Compa Herbicide compositions of extended soil life. 4,648,894, 3-10-87, C 71-87.000.

Gray, Reed A.; and Hyzak, Daniel L., to Stauffer Chemical Compa Herbicide compositions of extended soil life. 4,652,296, 3-24-87, C 71-87.000.

Gray, Reed A.; and Hyzak, Daniel L., to Stauffer Chemical Compa Herbicide compositions of extended soil life. 4,652,298, 3-24-87, C 71-87.000.

Gray, Reed A.; and Hyzak, Daniel L., to Stauffer Chemical Compa Herbicide compositions of extended soil life. 4,652,300, 3-24-87, C 71-87.000.

Gray, Reed A.; and Hyzak, Daniel L., to Stauffer Chemical Compa Herbicide compositions of extended soil life. 4,652,301, 3-24-87, C 71-7.000.

Gray, Reed A.; and Hyzak, Daniel L., to Stauffer Chemical Compa Herbicide compositions of extended soil life. 4,652,302, 3-24-87, C 71-87.000.

Gray, Reed A.; and Hyzak, Daniel L., to Stauffer Chemical Co. Herb cide compositions of extended soil life. 4,662,930, 5-5-87, C 71-87.000.

Gray, Reed A.; and Joo, Grant K., to Stauffer Chemical Co. S-n-bu N,N-diisopropyl thiocarbamate as a selective herbicide in sugarbe carrots and cabbage. 4,692,186, 9-8-87, Cl. 71-100.000.

Gray, Richard A.: *See—*

  Wood, P. John; and Gray, Richard A., 4,651,129, Cl. 340-72.00

Gray, Richard K., to General Motors Corporation. Heat curable epo adhesive composition. 4,644,023, 2-17-87, Cl. 523-176.000.

Gray, Richard L.; and Howard, George M. Bow sight. 4,643,16 2-17-87, Cl. 124-87.000.

Gray, Richard L.: *See—*

  Nason, Dale L.; Wilson, Neil A.; and Gray, Richard L., 4,656,20 Cl. 522-89.000.

  Nason, Dale L.; and Gray, Richard L., 4,686,108, Cl. 427-27.00

Gray, Rita Ann: *See—*

  Dill, James M., 4,684,933, Cl. 340-572.000.

Gray, Robert E.: *See—*

  Scanland, Joseph E.; and Gray, Robert E., 4,667,459, Cl. 56-11.30

Gray, Robert H.: *See—*

  Kantrowitz, Adrian; Freed, Paul S.; Vaughan, Frizell L.; Bernste Isadore A.; and Gray, Robert H., 4,634,422, Cl. 604-49.000.

Gray, Robert L., Jr., to Union Carbide Corporation. Total isomeriza tion process and apparatus. 4,709,117, 11-24-87, Cl. 585-738.000.

Gray, Robert L., Jr.: *See—*

  Miller, Geoffrey Q.; and Gray, Robert L., Jr., 4,693,730, C 55-18.000.

Gray, Robert R.; and Marguth, Val M. Pulse combustion drying appa ratus for particulate materials. 4,637,794, 1-20-87, Cl. 432-58.000.

Gray, Robert R.; and Lindahl, Thomas G. Pulse jet combustor dehydra tion cone construction. 4,640,682, 2-3-87, Cl. 432-58.000.

Gray, Robert R. Pulse combustion drying apparatus for particula materials. 4,695,248, 9-22-87, Cl. 432-58.000.

Gray, Robert R. Feed system for particle drying pulse jet combustor 4,695,249, 9-22-87, Cl. 432-58.000.

Gray, Robert R.; and Lindahl, Thomas G. Elevated temperature deh dration section for particle drying pulse jet combustion system 4,701,126, 10-20-87, Cl. 432-58.000.

Gray, Steven J.: *See—*

  Pajerski, Michael J.; Gray, Steven J.; Flakas, Gerald K.; and Co Dennis J., 4,697,661, Cl. 180-6.500.

Gray, Theodor R. Method and apparatus for restoring tubular upse 4,676,528, 6-30-87, Cl. 285-15.000.

Gray, Timothy P.; Randall, Russel R.; and Schmidt, Mathew G., Dresser Industries, Inc. Neutron logging time spectral data acqu tion system and method. 4,668,863, 5-26-87, Cl. 250-256.000.

Gray Tool Company: *See—*

  Karr, Michael A., Jr.; and Zwiegel, John M., 4,643,390, C 251-63.600.

Gray, Trevor E., Grant, Charles B.; and Dietsche, Thomas J., to Dow Chemical Company, The. Chlorination of β-methylpyridine compounds. 4,672,125, 6-9-87, Cl. 546-345.000.

Gray Ventures, Inc.: *See—*
  Forsse, Earl K.; Larsen, Larry K.; and Davies, John M., 4,665,640, Cl. 40-457.000.

Gray, Walter E.: *See—*
  Wood, Norman H.; Gray, Walter E.; Yemington, Charles R.; and Louis, Bill G., 4,661,017, Cl. 405-169.000.

Gray, Warren E., to Northrop Corporation. Rotary driver and swaging tool. 4,649,727, 3-17-87, Cl. 72-75.000.

Gray, Warren E., to Northrop Corporation. Mechanically lockable fastener assembly. 4,682,520, 7-28-87, Cl. 81-471.000.

Gray, William E.; and Harris, Ronald R., to Owens-Corning Fiberglas Corporation. Apparatus for packaging insulation material. 4,653,397, 3-31-87, Cl. 100-76.000.

Grayden, Paul A., to Prescant Pty. Limited. Water ring vacuum pump having adjustable part plates and a hollow impeller. 4,637,780, 1-20-87, Cl. 417-68.000.

Grayhill, Inc.: *See—*
  Kikta, Donald D.; and Regnier, Kent E., 4,670,630, Cl. 200-16.00C.

Grayson, Ian L.: *See—*
  Cresswell, Pearson J.; Grayson, Ian L.; and Smith, Andrew H., 4,668,485, Cl. 423-119.000.

Grayson, James L., to Lonza Ltd. 3-hydroxy-3-(2-methyl-5-pyridyl)-propionic acid alkyl esters. 4,687,856, 8-18-87, Cl. 546-341.000.

Grayson, Robert E. Credit card security system. 4,670,644, 6-2-87, Cl. 235-487.000.

Graystone, Jonathan A.: *See—*
  Bromley, Charles W. A.; and Graystone, Jonathan A., 4,673,703, Cl. 524-504.000.

Grazia, Alessandro, to IMA-Industrie Macchine Automatiche SpA. Filter-bag package. 4,650,075, 3-17-87, Cl. 206-526.000.

Graziadei, Rinaldo; and Lorusso, Michaelango, to SGS Microelettronica S.p.A. Transistor amplifier and mixer input stage for a radio receiver. 4,704,738, 11-3-87, Cl. 455-253.000.

Graziadio, Mario; and Ligasacchi, Sergio, to Enel-Ente Nazionale per l'Energia Elettrica. Atomizer for viscous liquid fuels. 4,708,293, 11-24-87, Cl. 239-427.000.

Graziani, Gabriele: *See—*
  Nardi, Dante; Leonardi, Amedeo; Graziani, Gabriele; and Bianchi, Giorgio, 4,705,797, Cl. 514-356.000.

Graziani, Kenneth R.; and Kyan, Chwan P., to Mobil Oil Corporation. Lube hydrodewaxing method and apparatus with light product removal and enhanced lube yields. 4,648,957, 3-10-87, Cl. 208-58.000.

Graziani, Kenneth R.; Kyan, Chwan P.; Shih, Stuart S.; and Sowiak, Raymond M., to Mobil Oil Corporation. Lube or light distillate hydrodewaxing method and apparatus with light product removal and enhanced lube yields. 4,695,364, 9-22-87, Cl. 208-59.000.

Graziano, Anthony: *See—*
  Lapinski, Frank; and Graziano, Anthony, 4,671,504, Cl. 271-126.000.

Graziano, Lewis R., to American Bank Note Company. Apparatus for applying stamps to packages arrayed in cartons. 4,648,933, 3-10-87, Cl. 156-361.000.

Graziano, Peter J.: *See—*
  Katzman, James A.; Bartlett, Joel F.; Bixler, Richard M.; Davidow, William H.; Despotakis, John A.; Graziano, Peter J.; Green, Michael D.; Greig, David A.; Hayashi, Steven J.; Mackie, David R.; McEvoy, Dennis L.; Treybig, James G.; and Wierenga, Steven W., 4,639,864, Cl. 364-200.000.
  Katzman, James A.; Bartlett, Joel F.; Bixler, Richard M.; Davidow, William H.; Despotakis, John A.; Graziano, Peter J.; Green, Michael D.; Greig, David A.; Hayashi, Steven J.; Mackie, David R.; McEvoy, Dennis L.; Treybig, James G.; and Wierenga, Steven W., 4,672,535, Cl. 364-200.000.
  Katzman, James A.; Bartlett, Joel F.; Bixler, Richard M.; Davidow, William H.; Despotakis, John A.; Graziano, Peter J.; Green, Michael D.; Greig, David A.; Hayashi, Steven J.; Mackie, David R.; McEvoy, Dennis L.; Treybig, James G.; and Wierenga, Steven W., 4,672,537, Cl. 364-200.000.

Grazianski, Thomas: *See—*
  Scheffler, Peter; Mauser, Wilfried; and Grazianski, Thomas, 4,664,526, Cl. 366-106.000.

Grazioso, Michael V.; and Kerr, Edwin R., deceased (by Kerr, Myra L., executor), to Texaco Inc. Process for producing lower aliphatic alcohols. 4,661,525, 4-28-87, Cl. 518-714.000.

Grazul, Edwin C.: *See—*
  Genovese, John S.; Grazul, Edwin C.; Meisner, David J.; and Wright, Francis M., 4,664,982, Cl. 428-447.000.

Greame, James E.: *See—*
  Vollmer, David J.; and Greame, James E., 4,679,767, Cl. 251-129.150.
  Vollmer, David J.; and Greame, James E., 4,683,453, Cl. 335-255.000.
  Vollmer, David J.; and Greame, James E., 4,683,454, Cl. 335-299.000.

Greanias, Evon C.; Guarnieri, C. Richard; Seeland, John J., Jr.; Verrier, Guy F.; and Donaldson, Robert L., to International Business Machines Corporation. Combined finger touch and stylus detection system for use on the viewing surface of a visual display device. 4,686,332, 8-11-87, Cl. 178-19.000.

Greasley, Michael J.; and Manning, Richard J., to Standard Machinery Limited. Lockstitch sewing machine. 4,702,183, 10-27-87, Cl. 112-38.000.

Great Lakes Chemical Corporation: *See—*
  Albright, James A.; and Wilkinson, Theodore C., 4,696,963, Cl. 524-144.000.
  Puzig, Edward H., 4,677,130, Cl. 514-389.000.
  Sergent, Rodney H.; and Thanstrom, Kenneth N., 4,637,865, Cl. 204-111.000.
  Wong, Kwee C., 4,636,282, Cl. 156-659.100.

Great Plains Industries, Inc.: *See—*
  Hall; Robert E., 4,700,579, Cl. 73-861.780.

Great Plains Manufacturing, Inc.: *See—*
  Applequist, Roy E.; Johnson, Eric; and Adee, Ray A., 4,664,202, Cl. 172-311.000.

Greatbatch Enterprises, Inc.: *See—*
  Falk, Theodore J.; and Morris, Lawrence E., 4,636,150, Cl. 417-417.000.
  Falk, Theodore J.; and Morris, Lawrence E., 4,714,234, Cl. 251-129.170.
  Zajac, William V., Jr.; Kautz, Henry G.; Kautz, David J.; Bossert, Arthur J.; and Cohen, Sidney, 4,637,928, Cl. 423-659.000.

Greathouse, Glen. Portable food holding device. 4,706,817, 11-17-87, Cl. 206-545.000.

Greatorex, Cyril B.; Smith, Ian W. H.; and Hammersley, Graham J., to Stanton plc. Assembly and installation of pipes. 4,712,946, 12-15-87, Cl. 405-170.000.

Greatrake, Scott E.: *See—*
  Faulconer, Mark; and Greatrake, Scott E., 4,690,314, Cl. 224-211.000.
  Faulconer, Mark; and Greatrake, Scott E., 4,694,772, Cl. 114-315.000.

Greaves, Alan J.; and Hunter, Phillip J., to British Telecommunications plc. Active filter having series resonant active filter terminated by parallel resonant active filter. 4,686,486, 8-11-87, Cl. 330-107.000.

Greaves, Brian; and Ingham, Paul, to Dearborn Chemicals Limited. Method of inhibiting corrosion in aqueous systems. 4,692,315, 9-8-87, Cl. 422-18.000.

Greaves, Brian; and Grenside, Stuart J., to Dearborn Chemicals Limited. Method of inhibiting corrosion in aqueous systems. 4,692,316, 9-8-87, Cl. 422-16.000.

Greaves, Brian, to W. R. Grace & Co. Corrosion control in aqueous systems using cationic polymers in combination with phosphonohydroxyacetic acid. 4,692,317, 9-8-87, Cl. 422-15.000.

Greaves, John O. B.; and Warrender, David J., to Motion Analysis Systems, Inc. Quad-edge video signal detector. 4,656,507, 4-7-87, Cl. 358-96.000.

Greaves, Peter, to Dobson Park Industries plc. Typewriter carriage escapement mechanism having two sets of teeth. 4,712,934, 12-15-87, Cl. 400-332.500.

Greb, Manfred: *See—*
  Burkhardt, Klaus; Gerhards, Klaus; Greb, Manfred; Keuth, Rainer; and Lenk, Erich, 4,691,947, Cl. 28-255.000.

Grebe, Ingo; and Munch, Walter, to Babcock-BSH Aktiengesellschaft. Drying apparatus for sliced veneer. 4,654,981, 4-7-87, Cl. 34-114.000.

Grebinski, Thomas J., to Purusar Corporation. Surface treatment to remove impurities in microrecesses. 4,695,327, 9-22-87, Cl. 134-11.000.

Grebur, Dennis J.: *See—*
  Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., 4,698,398, Cl. 525-437.000.
  Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., 4,698,399, Cl. 525-449.000.
  Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., 4,698,400, Cl. 525-450.000.
  Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., 4,698,402, Cl. 525-533.000.
  Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., 4,699,955, Cl. 525-440.000.
  Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., 4,699,957, Cl. 525-450.000.
  Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., 4,699,958, Cl. 525-528.000.
  Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., 4,699,959, Cl. 525-528.000.
  Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., 4,701,501, Cl. 525-449.000.
  Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., 4,701,502, Cl. 525-449.000.
  Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., 4,708,995, Cl. 525-450.000.
  Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., 4,713,425, Cl. 525-438.000.

Grech, Leonard, to Catsouras, George, a part interest. Burner control system. 4,681,084, 7-21-87, Cl. 126-52.000.

Greck, Eugene, to Allen-Stevens Drum Accessories Corp. Leak-resistant drum seals. 4,706,836, 11-17-87, Cl. 220-256.000.

Grecksch, Hans; Schwalm, Hans-Werner; and Thomalla, Johannes, to W. Schlafhorst & Co. Bobbin tube magazine. 4,641,740, 2-10-87, Cl. 198-487.100.

Grecksch, Hans; and Tholen, Leo, to W. Schlafhorst & Co. Automatic winding machine. 4,664,326, 5-12-87, Cl. 242-35.50A.

Grecksch, Hans: *See—*
  Engelhardt, Dietmar; and Grecksch, Hans, 4,693,430, Cl. 242-18.00R.

Greco, Alberto; Busetto, Carlo; Cassar, Luigi; and Neri, Carlo, to Enichem Sintesi, S.p.A. Reactive stabilizing compounds containing a sterically hindered amino group and a hydrolyzable silyl function. 4,684,726, 8-4-87, Cl. 544-69.000.

Greco, Carl C.; and Triplett, Kelly B., to Stauffer Chemical Company. Activated preparation of metal alkoxides. 4,670,573, 6-2-87, Cl. 556-182.000.

Greco, Carl C., to Stauffer Chemical Company. Purified catalyst support. 4,680,350, 7-14-87, Cl. 526-125.000.

Greco, Carl C.: *See—*

Ayen, Richard J.; Burk, Johst H.; and Greco, Carl C., 4,681,959, Cl. 556-54.000.

Greco, John R.: *See—*

Oehlschlaeger, Richard M.; and Greco, John R., 4,653,541, Cl. 138-104.000.

Greco, Joseph A., II; Hawkins, Donald K.; LeGrys, Scott R.; and Kit Man, Wai, to Singer Company, The. Generic database generator system and method. 4,685,068, 8-4-87, Cl. 364-518.000.

Greco, Margaret. Toeless slipper. 4,644,669, 2-24-87, Cl. 36-9.00R.

Greco, Michael R.: *See—*

Ringer, Donald A.; and Greco, Michael R., 4,685,271, Cl. 53-246.000.

Gredel, Marie F.: *See—*

Baron, William J.; and Gredel, Marie F., 4,655,722, Cl. 446-226.000.

Gredt, Marc: *See—*

Bach, Norbert; Economopoulos, Marios; Gredt, Marc; Lessel, Guy; and Schummer, Arthur, 4,704,166, Cl. 148-12.00B.

Greeb, Herbert, to Gebruder Weiss K. G. Motive power device for a delivery device for a silo or a similar upright container. 4,708,567, 11-24-87, Cl. 414-310.000.

Greeb, Karl-Heinrich: *See—*

Senske, Wilhelm; Herkert, Roland; Marschall, Norbert; and Greeb, Karl-Heinrich, 4,713,311, Cl. 430-127.000.

Greeb, Rolf: *See—*

Kunze, Lothar; Greeb, Rolf; and Bender, Ralf, 4,648,420, Cl. 137-312.000.

Greebe, Frans: *See—*

Myers, Ronald D.; and Greebe, Frans, 4,676,318, Cl. 166-293.000.

Greefe, Klaus: *See—*

Goehle, Rolf; Schmitt, Volker; Bruckner, Werner; and Greefe, Klaus, 4,698,609, Cl. 335-255.000.

Green, Andrew P.: *See—*

Price, Anthony G.; Campbell, Roy; and Green, Andrew P., 4,711,327, Cl. 188-71.400.

Green, Augustus H., Jr.: *See—*

Saffold, James A.; Green, Augustus H., Jr.; and Passmore, Ronald C., 4,636,797, Cl. 343-725.000.

Saffold, James A.; Green, Augustus H., Jr.; and Passmore, Ronald C., 4,652,885, Cl. 343-725.000.

Green Ball Bearing Company, The: *See—*

Green, Bernard, 4,690,574, Cl. 384-569.000.

Green Bay Packaging Inc.: *See—*

Stacey, Ralph E., 4,640,456, Cl. 229-122.000.

Green, Bernard, to Green Ball Bearing Company, The. Bearing and method for rotatably supporting a worn shaft. 4,690,574, 9-1-87, Cl. 384-569.000.

Green, C. Brad; Dobson, William; and Abel, Stephen G., to Garrett Corporation, The. Servo system method and apparatus servo valve apparatus therefor and method of making same. 4,641,405, 2-10-87, Cl. 29-157.10R.

Green, Carlos J.; Hirsius, John L.; and Book, Marshall K. Orthopedic heat transfer system for orthopedic casts. 4,677,970, 7-7-87, Cl. 128-82.100.

Green, Charles J.: *See—*

Armbruster, Kurt; Green, Charles J.; and Morris, John M., 4,702,268, Cl. 137-202.000.

Green Cross Corporation, The: *See—*

Fukushima, Tsunekazu; Emoto, Hiroshi; Kagitani, Yoshio; Yokoyama, Kazumasa; Nishida, Masayuki; and Suyama, Tadakazu, 4,687,762, Cl. 514-34.000.

Imagawa, Takashi; Yokoyama, Kazumasa; and Mizushima, Yutaka, 4,684,633, Cl. 514-78.000.

Scherer, Kirby V., Jr.; Ono, Taizo; Yamanouchi, Kouichi; and Yokoyama, Kazumasa, 4,686,024, Cl. 204-157.950.

Takabayashi, Kuniaki; Takaoka, Yoshitsugu; Hori, Kouichi; Shimotakahara, Masaki; Okada, Kikujiro; and Shiino, Satoru, 4,710,161, Cl. 494-84.000.

Ueda, Yasuo; Kagitani, Yoshio; Komeda, Shirou; and Funakoshi, Satoshi, 4,701,325, Cl. 424-164.000.

Uemura, Yahiro; and Funakoshi, Satoshi, 4,692,331, Cl. 424-85.000.

Uemura, Yahiro; Ohmura, Takao; Ohmizu, Akimasa; Sumi, Akinori; Ohtani, Wataru; Sakanishi, Yoshitaka; Morise, Hiroshi; Arimura, Hirofumi; and Suyama, Tadakazu, 4,694,074, Cl. 530-417.000.

Yokoyama, Kazumasa; Fukaya, Chikara; Tsuda, Yoshio; Ono, Taizo; Arakawa, Yoshio; Inoue, Yoshihisa; Naito, Youichiro; and Suyama, Tadakazu, 4,654,337, Cl. 514-214.000.

Yokoyama, Kazumasa; Fukaya, Chikara; Tsuda, Yoshio; Ono, Taizo; Arakawa, Yoshio; and Suyama, Tadakazu, 4,713,459, Cl. 546-150.000.

Green, David T., to United States Surgical Corporation. Surgical stapler apparatus. 4,665,916, 5-19-87, Cl. 128-334.00R.

Green, David T., to United States Surgical Corporation. Reloading unit for surgical fastening instruments. 4,714,187, 12-22-87, Cl. 227-19.000.

Green, David T.: *See—*

Korthoff, Herbert W.; and Green, David T., 4,667,674, Cl. 128-334.00C.

Green, Donald E., to Oral-D (L.P.). Orally effective ion chelators. 4,671,901, 6-9-87, Cl. 260-404.500.

Green, Donald E., to Oral-D (L.P.). Orally effective ion chelat 4,684,482, 8-4-87, Cl. 260-404.500.

Green, Donald H.: *See—*

Reeves, Robert H., Jr.; Green, Donald H.; Birdwell, Jimmy A.; a Jorgensen, Henry A., 4,703,780, Cl. 141-1.000.

Green, Douglas H.: *See—*

Bocking, Bruce; Cervantes, Joe A., Jr.; Green, Douglas H.; L Sota, Bruce W.; Marshall, David H.; Rodriguez, Bernard; an Van Gorden, Glen, 4,681,175, Cl. 175-393.000.

Green, Douglas P. Heavy duty multi-function exercise ben 4,653,751, 3-31-87, Cl. 272-144.000.

Green, Elisabeth, administrator: *See—*

Green, Marshall S., deceased; and Boisvert, Jean-Paul, 4,698,1 Cl. 162-199.000.

Green, Ethel F. Apparatus for delivering drinks on demand. 4,699,3 10-13-87, Cl. 239-33.000.

Green, Frank L. Device for stacking and wrapping coins. 4,700,5 10-20-87, Cl. 53-532.000.

Green, Gary J.; McVeigh, Harry A.; Penick, Joe E.; and Yan, Tsou Y., to Mobil Oil Corporation. Method of burning low hydroge content fuels. 4,640,675, 2-3-87, Cl. 431-2.000.

Green, Gary J.; McVeigh, Harry A.; Penick, Joe E.; and Yan, Tsou Y., to Mobil Oil Corporation. Method of burning hydrogen deficie fuels. 4,643,666, 2-17-87, Cl. 431-4.000.

Green, Gary J.; and Yan, Tsoung-Y, to Mobil Oil Corporation. Flam reactor for cracking hydrocarbons. 4,672,143, 6-9-87, Cl. 585-540.00

Green, Gary J., to Mobil Oil Corporation. Flame conversion of meth ane to more reactive hydrocarbons. 4,672,144, 6-9-87, C 585-540.000.

Green, Gary S.: *See—*

Siskin, Michael; Brons, Glen B.; and Green, Gary S., 4,705,622, C 208-289.000.

Green, Geoffrey W.; and Lettington, Alan H., to United Kingdom Great Britain and Northern Ireland, The Secretary of State fo Defence in Her Britannic Majesty's Government of the Infra-re transparent optical components. 4,704,339, 11-3-87, Cl. 428-689.00

Green, George D.; Laboe, Lauren M.; and Cook, Richard. Diagnosti device and method for examining the operation of a disk driv 4,641,207, 2-3-87, Cl. 360-55.000.

Green, Graham: *See—*

Sclater, Alexander; Cunningham, Wallace; and Green, Graha 4,674,159, Cl. 26-93.000.

Green, Harold A.; and Weinstein, Morris, to Stepan Company. Fo generating compositions. 4,676,835, 6-30-87, Cl. 106-111.000.

Green, Harold A.; and Weinstein, Morris, to Stepan Company. Fo generating compositions. 4,678,515, 7-7-87, Cl. 106-111.000.

Green, Howard H.; and Tomlinson, Christopher J., to Burroughs Corporation. Method of synchronizing the sequence by which variety of randomly called unrelated activities are executed in digital processor. 4,646,231, 2-24-87, Cl. 364-200.000.

Green, James A., II; and Young, Donald C., to Union Oil Company California. Methods for purifying biuret. 4,645,859, 2-24-87, C 564-38.000.

Green, James A., II; and Young, Donald C., to Union Oil Company California. Biuret manufacture. 4,645,860, 2-24-87, Cl. 564-73.000.

Green, James A., II: *See—*

Young, Donald C.; and Green, James A., II, 4,650,901, C 564-73.000.

Young, Donald C.; and Green, James A., II, 4,654,442, C 564-73.000.

Young, Donald C.; and Green, James A., II, 4,658,059, C 564-73.000.

Young, Donald C.; and Green, James A., II, 4,698,443, C 564-38.000.

Young, Donald C.; and Green, James A., II, 4,701,555, C 564-38.000.

Green, James W. Tree harness. 4,687,074, 8-18-87, Cl. 182-3.000.

Green, Jerry T., to Tuftco Corporation. Yarn carrier holder. 4,705,2 11-10-87, Cl. 242-130.000.

Green, Jesse: *See—*

Gilligan, Robert J.; and Green, Jesse, 4,662,667, Cl. 294-16.000.

Green, John D., to British-American Tobacco Company Limited. Smoking articles. 4,662,384, 5-5-87, Cl. 131-335.000.

Green, John G.; and Hunt, David G., to Dow Chemical Company, The. N-vinyl-2-oxazolidinones as reactive diluents in actinic radiation curable coatings. 4,639,472, 1-27-87, Cl. 522-107.000.

Green, John G., to Dow Chemical Company, The. Process for the production of polyolefin resins containing an amide and a zinc compound. 4,647,608, 3-3-87, Cl. 524-232.000.

Green, Joseph, to FMC Corporation. Flame retardant polyphenylene ether molding compositions. 4,710,530, 12-1-87, Cl. 524-142.000.

Green, Joseph, to FMC Corporation. Flame retarded polycarbonate polymers. 4,711,931, 12-8-87, Cl. 525-394.000.

Green, Joseph H., to Greenco Corporation. Cable shield for a rodless cylinder. 4,694,733, 9-22-87, Cl. 92-88.000.

Green, Julius: *See—*

Shnitkin, Harold; and Green, Julius, 4,638,323, Cl. 343-771.000.

Green, Kendell L., to Odessa American, a subsidary of Freedom Newspapers, Inc., The. Rejuvenating newspaper film process. 4,657,59 4-14-87, Cl. 134-9.000.

Green, Kenneth E.; Johnson, Donald K.; and Woodruff, Roger W., to Norton Company. Refractory shield for superheater tubes. 4,682,56 7-28-87, Cl. 122-235.00C.

Green, Lanny A.; and Heck, Joaquim L., Jr., to United States of America, Energy. Fixture for supporting and aligning a sample to be analyzed in an X-ray diffraction apparatus. 4,641,329, 2-3-87, Cl. 378-79.000.

reen, LaVerne M.; Vannoni, Adrio L.; and Pummell, Ivan K., to Micro Electronic Systems, Inc. Reworking methods and apparatus for surface mounted technology circuit boards. 4,696,096, 9-29-87, Cl. 29-829.000.

reen, Lawrence R., III: *See—*

Gray, Donald R.; Green, Lawrence R., III; Gendler, Robert L.; and Carrott, John A., 4,651,157, Cl. 342-457.000.

reen, Marion A. Steam boosted internal combustion engine. 4,637,352, 1-20-87, Cl. 123-25.00P.

reen, Marion C. Means and method for detecting leaks in tanks. 4,682,492, 7-28-87, Cl. 73-49.200.

reen, Marshall S., deceased (by Green, Elisabeth, administrator); and Boisvert, Jean-Paul, to Consolidated-Bathurst, Inc. Method for cleaning papermaking fabrics. 4,698,134, 10-6-87, Cl. 162-199.000.

reen, Martin A.: *See—*

Nigol, Olaf; Barrett, John S.; and Green, Martin A., 4,673,775, Cl. 174-130.000.

reen, Martin L.; Levy, Roland A.; and Nuzzo, Ralph G., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Chemical vapor deposition of aluminum on an activated surface. 4,716,050, 12-29-87, Cl. 427-99.000.

reen, Michael C., to Varian Associates, Inc. Tungsten-iridium impregnated cathode. 4,675,570, 6-23-87, Cl. 313-346.00R.

reen, Michael D.: *See—*

Katzman, James A.; Bartlett, Joel F.; Bixler, Richard M.; Davidow, William H.; Despotakis, John A.; Graziano, Peter J.; Green, Michael D.; Greig, David A.; Hayashi, Steven J.; Mackie, David R.; McEvoy, Dennis L.; Treybig, James G.; and Wierenga, Steven W., 4,639,864, Cl. 364-200.000.

Katzman, James A.; Bartlett, Joel F.; Bixler, Richard M.; Davidow, William H.; Despotakis, John A.; Graziano, Peter J.; Green, Michael D.; Greig, David A.; Hayashi, Steven J.; Mackie, David R.; McEvoy, Dennis L.; Treybig, James G.; and Wierenga, Steven W., 4,672,535, Cl. 364-200.000.

Katzman, James A.; Bartlett, Joel F.; Bixler, Richard M.; Davidow, William H.; Despotakis, John A.; Graziano, Peter J.; Green, Michael D.; Greig, David A.; Hayashi, Steven J.; Mackie, David R.; McEvoy, Dennis L.; Treybig, James G.; and Wierenga, Steven W., 4,672,537, Cl. 364-200.000.

reen, Michael J., to BP Chemicals Limited. Process for transesterification of carbonate esters and carboxylic acid esters. 4,652,667, 3-24-87, Cl. 558-277.000.

reen, Michael J., to BP Chemicals Limited. Production of esters. 4,658,053, 4-14-87, Cl. 560-234.000.

reen, Michael J., to BP Chemicals Limited. Transesterification process. 4,663,472, 5-5-87, Cl. 560-024.000.

reen, Michael J., to BP Chemicals Limited. Process for the production of 1-alkoxyalkyl esters. 4,665,223, 5-12-87, Cl. 560-263.000.

reen, Michael J.; and McKay, James B., to British Columbia Telephone Company. Asynchronous signaling for digital communication channel. 4,674,087, 6-16-87, Cl. 370-100.000.

reen, Michael J., to BP Chemicals Limited. Transesterification of carboxylic or carbonic esters. 4,681,967, 7-21-87, Cl. 558-277.000.

reen, Michael J.; and McKay, James B., to British Columbia Telephone Company. Asynchronous signaling system for digital communication channel. 4,683,567, 7-28-87, Cl. 370-110.100.

reen, Michael J., to BP Chemicals Limited. Metal perfluorosulphonic acid polymer catalyst. 4,687,755, 8-18-87, Cl. 502-159.000.

reen, Michael J.; and Saksena, Anil K., to Schering Corporation. Topical Treatment of hyperproliferative skin diseases. 4,696,946, 9-29-87, Cl. 514-574.000.

reen, Michael J., to BP Chemicals Limited. Process for the preparation of glycol derivatives. 4,699,998, 10-13-87, Cl. 560-240.000.

reen, Michael J., to BP Chemicals Limited. Preparation of phenolic ethers. 4,700,005, 10-13-87, Cl. 568-38.000.

reen, Neville K. Fastening device. 4,665,596, 5-19-87, Cl. 24-662.000.

reen, Norman, to Allied Corporation. Sequential mono-lobe tracker. 4,709,238, 11-24-87, Cl. 342-427.000.

reen, Peter J., to Service Machine Company. Low headroom ventilating apparatus for cooling an electrical enclosure. 4,665,466, 5-12-87, Cl. 361-384.000.

reen, Richard A.: *See—*

Spofford, Bruce S.; Fucich, Lorraine; Howell, David A.; Nee, John D.; and Green, Richard A., 4,675,961, Cl. 29-33.00K.

reen, Richard D.: *See—*

Davies, Roy V.; and Green, Richard D., 4,659,718, Cl. 514-312.000.

reen, Richard F.: *See—*

Young, Gladstone F.; Green, Richard F.; Miller, S. David; and Quinlan, Thomas J., III, 4,683,564, Cl. 370-63.000.

reen, Robert, to Austin Rover Group Limited. Distributor for spark ignition internal combustion engine. 4,640,239, 2-3-87, Cl. 123-146.50A.

reen, Robert. Portable work device. 4,681,305, 7-21-87, Cl. 269-139.000.

reen, Robin J.: *See—*

Humphreys, Robert W.; Walker, Adrian W.; Green, Robin J.; and Russell, Stephen W., 4,642,198, Cl. 252-94.000.

reen, Ronald N. Wrist watch mirror accessory. 4,636,047, 1-13-87, Cl. 350-641.000.

reen, Russell D. Mixing and discharge capsule. 4,648,532, 3-10-87, Cl. 222-82.000.

reen, Sidney J.: *See—*

Johnson, Christopher F.; and Green, Sidney J., 4,679,441, Cl. 73-798.000.

Owen, Lawrence B.; and Green, Sidney J., 4,634,315, Cl. 405-217.000.

Owen, Lawrence B.; Masterson, Daniel M.; and Green, Sidney J., 4,637,217, Cl. 62-74.000.

Green, Stephen H.; Hofstetter, Robert W., Sr; and Hofstetter, Robert W., Jr., to I&H Conveying & Machine Company. Mass product handling ring system. 4,709,802, 12-1-87, Cl. 198-465.100.

Green, Steven R.; De Muro, David M.; and Sokola, Raymond L., to Motorola, Inc. Multiple resonator dielectric filter. 4,692,726, 9-8-87, Cl. 333-206.000.

Green, Terry D.; Kao, Kenneth C.; O'Loughlin, Robert J., Jr.; and Reese, Robert C., to Corning Glass Works. Pipe coupling. 4,643,465, 2-17-87, Cl. 285-236.000.

Green, Timothy; Kaufman, Harry; and Jalovec, Charles, to General Foods Corporation. Carton and pouch system. 4,660,737, 4-28-87, Cl. 220-410.000.

Green, Wayne T.: *See—*

White, Charles M.; and Green, Wayne T., 4,710,725, Cl. 330-51.000.

Green, William D.: *See—*

Finkel, Joel R.; Jacobs, Paul F.; Gustafson, Kenneth I.; and Green, William D., 4,678,322, Cl. 355-133.000.

Green, William F.: *See—*

Barnett, Joseph A.; Gomez, Joseph M.; Green, William F.; Lisica, Vincent M.; and Rosenthal, Arnold B., 4,714,400, Cl. 414-751.000.

Green, William G., to Dow Chemical Company, The. Magnesium calcium oxide composite. 4,705,561, 11-10-87, Cl. 75-58.000.

Green, William J., and Semmerling, Ralph P., to USG Industries, Inc. Walkway for a sloping rooftop. 4,689,927, 9-1-87, Cl. 52-180.000.

Green, William J., Jr.: *See—*

Chenausky, Peter P.; and Green, William J., Jr., 4,655,588, Cl. 356-5.000.

Greenawalt, Kent S. Arch support unit and method of formation. 4,694,590, 9-22-87, Cl. 36-91.000.

Greenaway, David L., to LGZ Landis & Gyr Zug AG. Optically diffracting security element. 4,662,653, 5-5-87, Cl. 283-91.000.

Greenbacker, Dale E., to Daleco, Inc. Device for steam cooking food. 4,648,382, 3-10-87, Cl. 126-348.000.

Greenbank, Michael: *See—*

Matviya, Thomas M.; Gebhard, Robert S.; and Greenbank, Michael, 4,708,853, Cl. 423-210.000.

Greenbaum, Elias, to United States of America, Energy. Method of producing metallized chloroplasts and use thereof in the photochemical production of hydrogen and oxygen. 4,657,646, 4-14-87, Cl. 204-157.500.

Greenberg, Bernard. Animal litter formulation. 4,638,763, 1-27-87, Cl. 119-1.000.

Greenberg, Burton L. Method and apparatus for the automatic identification and verification of television broadcast programs. 4,639,779, 1-27-87, Cl. 358-142.000.

Greenberg, Dan. Ejector and method of fabrication. 4,696,625, 9-29-87, Cl. 417-174.000.

Greenberg, Donald S. Seismic activated valve. 4,640,303, 2-3-87, Cl. 137-38.000.

Greenberg, Herbert S. Drinking vessel. 4,712,698, 12-15-87, Cl. 215-100.00A.

Greenberg, I. Melbourne. Surgical instrument. 4,674,501, 6-23-87, Cl. 128-305.000.

Greenberg, Joel S., to Harold Lorber. Monte verde playing card dispenser. 4,659,082, 4-21-87, Cl. 273-149.00R.

Greenberg, Joel S., to Princeton Synergetics, Inc. Security system for correlating passengers and their baggage. 4,711,994, 12-8-87, Cl. 235-384.000.

Greenberg, Lesley, to Westinghouse Electric Corp. Method for determining the operability of a source range detector. 4,655,994, 4-7-87, Cl. 376-254.000.

Greenberg, Lesley: *See—*

Gaussa, Louis W., Jr.; and Greenberg, Lesley, 4,671,919, Cl. 376-254.000.

Greenberg, Richard; and Styczinski, David A., to International Business Machines Corporation. Sector identification method for hard sectored hard files. 4,656,532, 4-7-87, Cl. 360-48.000.

Greenberg, Richard N., to St. Louis University. Inhibition of diarrhea induced by *escherichia coli* heat-stable enterotoxin. 4,701,458, 10-20-87, Cl. 514-280.000.

Greenberg, Robert, to Ray Industries, Inc. Marine propeller shaft/key assembly. 4,695,183, 9-22-87, Cl. 403-356.000.

Greenberg, Ronald: *See—*

Lauer, John F.; Greenberg, Ronald; and Van De Walle, Raymond A., 4,641,997, Cl. 405-24.000.

Greenberg, Ronald A.: *See—*

Gallagher, Patrick E.; and Greenberg, Ronald A., 4,680,373, Cl. 528-185.000.

Greenberg, Sherman: *See—*

Poeppel, Roger B.; Greenberg, Sherman; and Diercks, Dwight R., 4,705,563, Cl. 75-95.000.

Greenberg, Sol: *See—*

Gautherin, George A.; and Greenberg, Sol, 4,675,796, Cl. 363-20.000.

Greenberg, Stephen M.: *See—*

Frischling, Louis B.; and Greenberg, Stephen M., 4,659,573, Cl. 424-63.000.

Greenberger, Susan; and Horwich, Kate B., to Homebodies, Inc. Convertible garment. 4,689,831, 9-1-87, Cl. 2-93.000.

Greenblatt, Gordon M. Blood warming method and apparatus using gaseous heat exchange medium. 4,707,587, 11-17-87, Cl. 219-299.000.

Greencare Pty., Limited: *See—*
McDermott, Brian P.; and Livingstone, David J., 4,658,909, Cl. 172-22.000.

Greenco Corporation: *See—*
Green, Joseph H., 4,694,733, Cl. 92-88.000.

Greene, David R., to Centrifugal Piston Expander, Inc. Method and apparatus for extracting heat and mechanical energy from a pressured gas. 4,658,703, 4-21-87, Cl. 91-170.00R.

Greene, Edwin B. Negotiable instrument. 4,634,148, 1-6-87, Cl. 283-70.000.

Greene, Franklin R.; Stern, Howard S.; and Waye, Jerome D., to E-Z-Em, Inc. Mouth guard for use with a diagnostic instrument. 4,640,273, 2-3-87, Cl. 128-136.000.

Greene, Franklin R.; Zimmet, Arthur L.; Waye, Jerome D.; and Petix, Edward A., to E-Z-Em, Inc. Suction collection and drainage apparatus. 4,643,197, 2-17-87, Cl. 128-762.000.

Greene, George H.; and Daniele, Robert A., Jr., to Union Carbide Corporation. Textiles treated with higher alkyl modified epoxy terpolymeric silicones. 4,661,405, 4-28-87, Cl. 428-391.000.

Greene, George H.: *See—*
Ostrozynski, Robert L.; Greene, George H.; and Merrifield, James H., 4,640,962, Cl. 525-474.000.

Greene, George J., Jr. Cooling cover. 4,660,388, 4-28-87, Cl. 62-261.000.

Greene, George O.: *See—*
Loeber, Frederick W.; Cummins, Nolan W.; Modglin, Rodger L.; and Greene, George O., 4,706,723, Cl. 152-410.000.

Greene, Herbert, deceased (by Bershatsky, Charles, administrator), to Richard McLaughlin. Voice improving device. 4,654,009, 3-31-87, Cl. 434-185.000.

Greene, Hilliard F., Sr., to Precision Screw Machine Company. Valve bridge construction method. 4,677,723, 7-7-87, Cl. 29-157.10R.

Greene, Hugh W.; Holder, James D.; and Knaur, James A. Air cushion-optical data read head. 4,710,912, 12-1-87, Cl. 369-218.000.

Greene, James A., to Vipont Laboratories, Inc. Sanguinarine dental compositions with hydrated silica. 4,689,216, 8-25-87, Cl. 424-58.000.

Greene, Jay S., to Environmental Security Incorporated. Heat exchange fluid particularly for closed loop solar energy collecting systems. 4,636,325, 1-13-87, Cl. 252-75.000.

Greene, Joe A. Printing press cylinder with axially adjustable cord anti-smear devices. 4,694,750, 9-22-87, Cl. 101-426.000.

Greene, John F.: *See—*
Slade, Michael G.; Moscicki, John M.; and Greene, John F., 4,671,772, Cl. 434-219.000.

Greene, John P. Gas filter apparatus. 4,652,285, 3-24-87, Cl. 55-498.000.

Greene, Joseph L.: *See—*
Malik, Michael; and Greene, Joseph L., 4,659,605, Cl. 427-129.000.

Greene, Joy W. Disposable undergarment. 4,674,135, 6-23-87, Cl. 2-400.000.

Greene, Larry L.: *See—*
Bowman, Charles H.; Farringer, Jeffrey A.; Garwin, Richard L.; Greene, Larry L.; Levine, James L.; Miles, Anthony W.; and Vorhees, Kevin H., 4,675,569, Cl. 310-328.000.

Greene, Leonard M., to Safe Flight Instrument Corporation. Sailboat keel having a cantilevered trailing edge flap. 4,686,923, 8-18-87, Cl. 114-140.000.

Greene, Mark D.: *See—*
Hollis, Richard E.; and Greene, Mark D., 4,688,448, Cl. 74-665.00L.

Greene, Neil E.; Grubka, Lawrence J.; and Nyhart, Randall E., to Owens-Corning Fiberglas Corporation. Method and apparatus for forming glass fibers. 4,673,428, 6-16-87, Cl. 65-2.000.

Greene, Neil E.: *See—*
Hanna, Terry J.; and Greene, Neil E., 4,676,813, Cl. 65-2.000.

Greene, Orville T., Jr.; and Mead, John A. Flex couplings isolate stabilizing mirrors. 4,715,696, 12-29-87, Cl. 350-500.000.

Greene, Paul L.; and Appling, James, to Allied Corporation. Elongated retaining and electromagnetic shielding member for a towed underwater acoustic array. 4,636,998, 1-13-87, Cl. 367-154.000.

Greene, Richard K.: *See—*
Boldt, Clifford R.; and Greene, Richard K., 4,692,505, Cl. 528-241.000.

Greene, Sanford, to Micro Pneumatic Logi, Inc. Two-position switch. 4,668,847, 5-26-87, Cl. 200-82.00R.

Greene, Tammie B.: *See—*
Townsend, David E.; Frye, Diane R.; Greene, Tammie B.; and Perfetti, Thomas A., 4,700,726, Cl. 131-364.000.

Greene, Tracy D.: *See—*
Kupferschmidt, Albert; Greene, Tracy D.; and Jaycox, Donald F., 4,700,995, Cl. 439-276.000.

Greene, Vibert F. Jet airplane. 4,691,879, 9-8-87, Cl. 244-45.00R.

Greene, Walter D., to J. I. Case Company. Shift control system for implement transmission. 4,665,772, 5-19-87, Cl. 74-862.000.

Greene, Warner: *See—*
Nelson, David; Biddison, William; Rubin, Laurence; Greene, Warner; Leonard, Warren; and Yarchoan, Robert, 4,707,443, Cl. 435-7.000.

Greene, William G. Wheel lifting kit for bumper jacks. 4,648,583, 3-10-87, Cl. 254-133.00R.

Greener, Richard C. Pallet track with speed retarder. 4,662,511, 5-5-87, Cl. 198-834.000.

Greenfeld, Albert R.; Reis, Herbert; and Tittmann, Bernhard R., to Greenfeld, Albert R. Ultrasonic self-cleaning catheter system for indwelling drains and medication supply. 4,698,058, 10-6-87, Cl. 604-266.000.

Greenfield Industries, Inc.: *See—*
Emanuelli, Dino J., 4,708,542, Cl. 408-144.000.

Greenfield, Irving E., Jr. Dual temperature beverage dispenser with removable operating module. 4,651,862, 3-24-87, Cl. 194-344.000.

Greenfield, Moses A.: *See—*
Fymat, Alain L.; Lee, Wai-Nang P.; and Greenfield, Moses A., 4,682,604, Cl. 128-659.000.

Greengrass, Colin W.; Hoople, David W. T.; and Howarth, Thomas T., to Pfizer Inc. 7-hydroxyaminocephalosporin antibiotics. 4,684,64 8-4-87, Cl. 514-201.000.

Greengrass, Colin W.; Hoople, David W. T.; and Howarth, Thomas T., to Pfizer Inc. 7-Hydroxyaminocephalosporin antibiotics. 4,684,64 8-4-87, Cl. 514-201.000.

Greenhalgh, Frank E., to CEAG Electric Corp. Paralleled DC power supplies sharing loads equally. 4,635,178, 1-6-87, Cl. 363-65.000.

Greenhalgh, Marilyn E.: *See—*
Gibbs, Dudley F.; Greenhalgh, Marilyn E.; Watson, James H. P.; Yeo, Richard G.; and Ellwood, Derek C., 4,701,261, C 210-606.000.

Greenhalgh, Milton, to General Electric Company. Smoke and/or heat detection apparatus containing thermal-sensitive insulating composition. 4,684,790, 8-4-87, Cl. 219-505.000.

Greenhalgh, Milton S., to General Electric Company. Thermal-sensitive insulating composition comprising cured acrylonitrile butadiene carboxylic acid rubbers containing filler materials. 4,666,971, 5-19-87, Cl. 524-445.000.

Greenhalgh, Milton S., to General Electric Company. Over temperature sensing system for power cables. 4,707,686, 11-17-87, C 340-596.000.

Greenhalgh, Samuel, to United States of America, Navy. Aircraft with single surface membranous airfoils. 4,667,898, 5-26-87, Cl. 244-46.00

Greenhalgh, Stephen P.: *See—*
Hinson, Neil R.; and Greenhalgh, Stephen P., 4,665,433, C 358-22.000.

Greenhill, Daniel J., Sr.; and Moore, Alfred J., Jr. Mounting utility boxes, panels, and the like. 4,706,359, 11-17-87, Cl. 29-271.000.

Greenhill, Katherine L.: *See—*
Lin, Chew-Chen; Brown, Winthrop K.; Lankford, Frank L., Jr.; Greenhill, Katherine L.; and Campsey, Ronald L., 4,683,464, C 340-685.000.

Greenhouse, Robert J.; and Muchowski, Joseph M., to Syntex (U.S.A.) Inc. 1,2,3-trisubstituted indoles for treatment of inflammation. 4,654,360, 3-31-87, Cl. 514-418.000.

Greenhouse, Robert J.: *See—*
Muchowski, Joseph M.; Greenhouse, Robert J.; and Guzman, Angel, 4,707,473, Cl. 514-63.000.

Greenhow, David. Hydrostatic hydraulic transmission. 4,669,267, 6-2-87, Cl. 60-490.000.

Greenhow, James G. Lidless garbage bag holder. 4,664,455, 5-12-87, C 312-211.000.

Greenleaf, James F.: *See—*
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Greenlee, Donald R.; and Lustig, Lee M., to Dresser Industries, Inc. Slip and slip assembly for well tools. 4,702,313, 10-27-87, C 166-216.000.

Greenlee, William J.; and Thorsett, Eugene D., to Merck & Co., Inc. Aza analogs of carboxyalkyl dipeptide derivatives as antihypertensives. 4,634,715, 1-6-87, Cl. 514-423.000.

Greenman, Joseph: *See—*
Parker, Harry A.; and Greenman, Joseph, 4,643,789, C 156-219.000.
Parker, Harry A.; and Greenman, Joseph, 4,650,533, C 156-219.000.

Greenquist, Alfred C.; Li, Thomas M.; Rupchock, Patricia A.; Tyhach, Richard J.; and Walter, Bert, to Miles Laboratories, Inc. Multilayer homogeneous specific binding assay device. 4,668,619, 5-26-87, C 435-7.000.

Greenspon, Arnold J.: *See—*
Walinsky, Paul; Rosen, Arye; and Greenspon, Arnold J., 4,641,649, Cl. 128-303.100.

Greenspoon, Asher I.: *See—*
Greenspoon, Michael; and Greenspoon, Asher I., 4,688,462, C 84-418.000.

Greenspoon, Michael; and Greenspoon, Asher I. Tambourine. 4,688,462, 8-25-87, Cl. 84-418.000.

Greenstein, Bernard: *See—*
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Greenstein, Michael: *See—*
Carter, Guy T.; Greenstein, Michael; Goodman, Joseph J.; Borders, Donald B.; Maiese, William M.; and Testa, Raymond T., 4,705,688, Cl. 424-122.000.

Greenstien, Robert E.: *See—*
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Greenstreet, Arthur W.: *See—*
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Burleson, Robert M., 4,649,831, Cl. 105-378.000.
Burleson, Robert M., 4,686,909, Cl. 105-378.000.
Burleson, Robert M., 4,688,490, Cl. 105-378.000.

Greenwald, Brian D.: *See—*
Parsons, Donald F.; Parsons, Gerald J.; Greenwald, Brian D.; and Forsythe, Elizabeth A., 4,670,897, Cl. 379-10.000.

eenwald, Edward H., Sr. Process for producing a coal-water mixture. 4,662,894, 5-5-87, Cl. 44-51.000.

eenwald, Roger J.: *See—*

Baumeister, Hans-Peter; Greenwald, Roger J.; and Schauffele, Carl N., 4,675,755, Cl. 360-35.100.

eenwalt, Tibor J.; and Coe, Norman A., to University of Cincinnati. Device and method for preventing transfusion of incompatible blood. 4,685,314, 8-11-87, Cl. 70-57.000.

eenway, John M., to Milliken Research Corporation. Production of materials having visual surface effects. 4,670,317, 6-2-87, Cl. 428-89.000.

eenway, John M.: *See—*

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eenwell, Joseph D., to R. A. Jones & Co. Inc. Intermittent motion cartoning apparatus for cartoning liquid-filled pouches. 4,660,353, 4-28-87, Cl. 53-449.000.

eenwood, Alan; and Majerus, Norbert, to Goodyear Tire & Rubber Company, The. Apparatus for injection molding tire treads. 4,715,577, 12-29-87, Cl. 249-107.000.

eenwood, Arthur R., to UOP Inc. Process for sampling particulate matter passing from one treatment zone to another. 4,637,266, -20-87, Cl. 73-863.860.

eenwood, Arthur R., to UOP Inc. Regeneration of hydrocarbon conversion catalyst. 4,647,549, 3-3-87, Cl. 502-37.000.

eenwood, Arthur R., to UOP Inc. Process for uniformly distributing fluid through a bed of particulate material. 4,662,081, 5-5-87, Cl. 4-22.000.

eenwood, Arthur R., to UOP Inc. Apparatus for uniformly distributing fluid through a bed of particulate material. 4,665,632, 5-19-87, Cl. 4-168.000.

eenwood, Arthur R., to UOP Inc. Catalyst regeneration apparatus. ,687,637, 8-18-87, Cl. 422-62.000.

eenwood, Arthur R., to UOP Inc. Catalyst regeneration with varying air flow to burn-off zone from drying zone through halogenation one. 4,701,429, 10-20-87, Cl. 502-37.000.

eenwood, C. J., to Leyland Vehicles Limited. Drive line for a tracklaying vehicle. 4,641,548, 2-10-87, Cl. 74-691.000.

eenwood, Christopher J., to Leyland Vehicles Limited. Continuously variable transmission. 4,662,240, 5-5-87, Cl. 74-690.000.

eenwood, Christopher J., to Leyland Vehicles Limited. Hydraulic ontrol system. 4,662,248, 5-5-87, Cl. 74-867.000.

eenwood, Christopher J., to Leyland Vehicles Limited. Driveline for egenerative braking. 4,679,646, 7-14-87, Cl. 180-165.000.

enwood, David: *See—*

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Baxter, Anthony G. W.; Bostock, Stephen B.; and Greenwood, David, 4,703,113, Cl. 534-796.000.

Baxter, Anthony G. W.; Bostock, Stephen B.; and Greenwood, David, 4,705,528, Cl. 8-641.000.

enwood, John C.; and Thompson, George H. B., to ITT Industries, ic. Photodetector integrated circuit. 4,636,829, 1-13-87, Cl. 57-30.000.

enwood, John C., to International Standard Electric Corporation otational movement. 4,655,091, 4-7-87, Cl. 73-862.080.

enwood, John C., and Wilson, David, to International Standard lectric Corporation. Flexible hinge device. 4,660,418, 4-28-87, Cl. 3-514.000.

enwood, John C.; Hodges, Robert J.; and Sheppard, Robert, to ternational Standard Electric Corporation. Switch device. 691,117, 9-1-87, Cl. 307-119.000.

enwood, Leon D.; and Thorsen, Thomas A., to Eaton Stamping ompany. Rope starter for engines. 4,658,775, 4-21-87, Cl. 123-85.00B.

enwood, Sidney. Cart particularly designed for responding to nergencies. 4,652,062, 3-24-87, Cl. 312-209.000.

enwood, Victor D., to K-Products, Inc. Thermometer mounting evice. 4,669,892, 6-2-87, Cl. 374-194.000.

enwood, Walter L., to Allen Organ Company. Manually controlled erformance apparatus for electronic musical instrument. 4,696,215, 29-87, Cl. 84-1.030.

enzang, Fred: *See—*

Castaldi, John; and Greenzang, Fred, 4,690,602, Cl. 414-282.000.

er, Charles: *See—*

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er, J Rex. Auxiliary air conditioning, heating and engine warming stem for trucks. 4,682,649, 7-28-87, Cl. 165-43.000.

er, Jerry L., to Genicom Corporation. Printing activator test circuit nerating back EMF. 4,706,561, 11-17-87, Cl. 101-93.010.

er, John S.: *See—*

Hiltz, Ralph H.; Greer, John S.; and Friel, Joseph V., 4,713,182, Cl. 252-3.000.

er, Keith B.; and Greer, O'Neil J. Weighted towel. 4,634,618, 6-87, Cl. 428-81.000.

er, Leland H. Resealing skin bandage. 4,641,643, 2-10-87, Cl. 8-156.000.

er, O'Neil J.: *See—*

Greer, Keith B.; and Greer, O'Neil J., 4,634,618, Cl. 428-81.000.

er, Stephen L. Terry cloth mattress and lawn chair cover with ntinuous elastic border. 4,671,568, 6-9-87, Cl. 297-229.000.

er, Thomas J., Jr. Motor element for facially animated mannequin. 683,669, 8-4-87, Cl. 40-414.000.

er, William K. Swing away pocket. 4,667,347, 5-26-87, Cl. 247.000.

Greeson, Jeffrey A.; and Zweifel, Terry L., to Sperry Corporation. Speed capture in climb for aircraft. 4,672,548, 6-9-87, Cl. 364-433.000.

Greeson, Logan C. Self-lifting gantry crane and boom therefor. 4,648,518, 3-10-87, Cl. 212-199.000.

Greethead, Geoffrey F., to Jamestown Holdings Pty. Ltd. Bakery products. 4,650,681, 3-17-87, Cl. 426-19.000.

Greeves, Godfrey, to Lucas Industries public limited company. Fuel injection nozzles. 4,691,864, 9-8-87, Cl. 239-453.000.

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Grega nee Toth, Erzsebet: *See—*

Dombay, Zsolt; Grega nee Toth, Erzsebet; Nagy, Jozsef; Pavliscsak, Csaba; Tasi, Laszlo; Toth, Andras; Toth, Oszkar; Vitanyi, Judit; Bihari, Ferenc; Bohus, Peter; Inczedy, Peter; Magyari, Istvan; Kertesz nee Szabo, Marianna; Wohl, Laszlo; and Ferenczi, Attila, 4,670,429, Cl. 514-187.000.

Gregan, David J.; and Crowter, Ronald H., to National Dairy Association of N.Z., The. Pulsation arrangement. 4,690,099, 9-1-87, Cl. 119-14.410.

Greger, Wolfgang, to Sulzer Brothers Limited. Brake for a weaving machine. 4,637,437, 1-20-87, Cl. 139-336.000.

Gregersen, Johan C.: *See—*

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Nielsen, Jens P.; and Gregersen, Johan C., 4,655,981, Cl. 264-162.000.

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Gregerson, Stanley M.; Haight, Robert E.; and Mattson, Timothy J., to Deere & Company. Control system for transmission engagement. 4,650,048, 3-17-87, Cl. 192-3.570.

Gregerson, Stanley M., to Deere & Company. Seal assembly for rotary and reciprocating motion. 4,693,699, 9-15-87, Cl. 464-133.000.

Gregg, Arthur H. Roofing tiles. 4,683,697, 8-4-87, Cl. 52-520.000.

Gregg, Jack E.: *See—*

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Bachmann, Henry C.; Brown, Omar L.; Fraze, Ermal C.; Wynn, David K.; and Gregg, James R., 4,637,961, Cl. 428-579.000.

Bachmann, Henry C.; Brown, Omar L.; Fraze, Ermal C.; Wynn, David K.; and Gregg, James R., 4,704,887, Cl. 72-347.000.

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Mobley, Lawrence R.; and Gregg, James S., 4,640,414, Cl. 206-287.000.

Gregg, Ralph C., Jr., to Motorola, Inc. Binaural Doppler radar target detector. 4,692,763, 9-8-87, Cl. 342-28.000.

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Gregotsch, Karl: *See—*
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Greisar, Alexander: *See—*
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Mayer, Siegfried; and Greisner, Paul, 4,691,950, Cl. 292-269.000

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  - Muller, Rolf; and Grelat, Maurice, 4,657,707, Cl. 260-383.000.
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- Gren, Urban: *See—*
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- Grenier, Michel: *See—*
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- Greninger, Leonard O.: *See—*
  - Rogers, Burton L., Jr.; and Greninger, Leonard O., 4,655,450, Cl. 272-94.000.
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  - Yeh, Lun-Shu R.; Grenness, Morten; and Fuller, Robert J., 4,637,970, Cl. 429-153.000.
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  - Helary, Jean-Louis E.; and Grenon, Pierre, 4,687,174, Cl. 248-638.000.
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- Gresham, Tony R., to Bigler, Lenard L.; and Baker, Marshall W., part interest to each. Digger for root crops. 4,633,955, 1-6-87, Cl. 171-1.000.
- Gresho, William M.: *See—*
  - Plunkett, Larry E.; and Gresho, William M., 4,636,669, Cl. 310-51.000.
- Greskovics, Paul: *See—*
  - Chivens, Donald R.; and Greskovics, Paul, 4,714,508, Cl. 156-195.000.
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  - Read, Robert W.; and Gress, Edmund A., deceased, 4,671,739, Cl. 416-230.000.
- Gress, Josef: *See—*
  - Morgan, Annis R., Jr.; Mehlan, Bernd; Gress, Josef; Williford, Hugh S.; and Baumgartner, Gunter, 4,676,074, Cl. 62-277.000.
- Gress, Olive M., executrix: *See—*
  - Read, Robert W.; and Gress, Edmund A., deceased, 4,671,739, Cl. 416-230.000.
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- Greszczuk, Longin B., to McDonnell Douglas Corporation. Method for forming holes in composites. 4,696,711, 9-29-87, Cl. 156-173.000.
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  - Keller, Guido; Spiess, Andreas; Ott, Hans; and Boegli, Rolf, 4,649,502, Cl. 364-519.000.
  - Kunz, Rino E.; Murbach, Urs; and Huber, Ernst, 4,675,500, Cl. 219-121.0LP.
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- Gretshel, James; and Chezek, Norman, to Niemand Bros. Inc. Powder drum. 4,674,520, 6-23-87, Cl. 132-82.00C.
- Greuter, Hans: *See—*
  - Baumann, Marcus; Bosshard, Hans; and Greuter, Hans, 4,652,653, Cl. 548-171.000.
- Greve, Christopher G.: *See—*
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  - Angelbeck, Rolf; Gesell, Reinhard; Greve, Helmut; and Henke, Ulrich, 4,667,948, Cl. 271-98.000.

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Greve, Manfred; Moriconi, Emil J.; and Moser, Helmut, to Sandoz Ltd. Polymeric azo compounds containing at least four cationic groups. 4,675,388, 6-23-87, Cl. 534-608.000.

Greve, Manfred: *See—*
  Moser, Helmut; Greve, Manfred; Pedrazzi, Reinhard; and Wald, Roland, 4,673,735, Cl. 534-606.000.

Greve, Peter: *See—*
  Muller, Gerhard; Hohberg, Gerhard; and Greve, Peter, 4,659,916, Cl. 250-201.000.

Greve, Peter F.: *See—*
  Smid, Albert; Greve, Peter F.; and 't Lam, Hendrik, 4,712,205, Cl. 369-45.000.

Greving, Gerhard; Hofgen, Gunther; and Zeitz, Rudiger, to International Standard Electric Corporation. TACAN beacon. 4,641,142, 2-3-87, Cl. 342-399.000.

Grewal, Kalwant S.; Ordun, Michael R.; Quan, Zoe S.; Sawyer, Albert J.; and Sneed, Elbert L., Jr., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Controlling multi-port hunt groups in a distributed control switching system. 4,689,815, 8-25-87, Cl. 379-269.000.

Grewall, Harpal. Retractable door stop. 4,648,152, 3-10-87, Cl. 16-82.000.

Grewatta, Heinz: *See—*
  Wolff, Siegfried; Schwarze, Werner; and Grewatta, Heinz, 4,636,550, Cl. 524-552.000.

Grewe, Ronald E.; Hillstrom, David U.; Seely, James R.; and Ursprung, Cecil, to Marketing Displays, Inc. Sign and sign stand. 4,691,892, 9-8-87, Cl. 248-624.000.

Grewe, Ronald E., to Marketing Displays, Inc. Simulated pipe construction. 4,696,136, 9-29-87, Cl. 52-222.000.

Grey, Henry G., to Xerox Corporation. Electroforming process. 4,664,758, 5-12-87, Cl. 204-3.000.

Grey, Henry G.: *See—*
  Herbert, William G., Jr.; Grey, Henry G.; and Reynolds, Bruce C., 4,678,691, Cl. 428-36.000.

Grey, Michael O., to NCR Corporation. Printer having constant pressure between print head and platen. 4,710,040, 12-1-87, Cl. 400-55.000.

Grey, Michael O.: *See—*
  Bangs, Richard G.; and Grey, Michael O., 4,661,823, Cl. 346-76.0PH.
  Bangs, Richard G.; and Grey, Michael O., 4,708,500, Cl. 400-120.000.

Grey, Seymour: *See—*
  Parr, Richard S.; Ramachandran, Pallassana N.; Grey, Seymour; and Reinish, Martin D., 4,699,729, Cl. 252-174.250.

Greyhawk Systems, Inc.: *See—*
  Harshberger, Robert P., Jr.; Loucks, Bryan E.; and Witte, Kenneth G., 4,705,996, Cl. 318-160.000.
  Loucks, Bryan E., 4,701,018, Cl. 350-174.000.

Grgec-Messner, Ivan: *See—*
  Pfeifer, Thomas; and Grgec-Messner, Ivan, 4,675,255, Cl. 429-92.000.

Griat, Jacqueline: *See—*
  Zabotto, Arlette; Griat, Jacqueline; and Bracco, Umberto, 4,661,343, Cl. 424-79.000.

Grib, Boris F., to Philamon, Inc. Voltage comparison circuits for motion amplitude regulators or the like. 4,644,188, 2-17-87, Cl. 307-363.000.

Gribble, Andrew D.; and Ife, Robert J., to Smith Kline & French Laboratories Limited. Tricyclic derivatives and pharmaceutical use. 4,668,671, 5-26-87, Cl. 514-211.000.

Gribshaw, Franklin C.: *See—*
  Lang, Paul W.; and Gribshaw, Franklin C., 4,679,574, Cl. 131-365.000.

Grice, Gordon T., to Digicon, Inc. Hydrophone array polarity test circuit. 4,656,615, 4-7-87, Cl. 367-13.000.

Grice, Neal J.: *See—*
  Knifton, John F.; and Grice, Neal J., 4,683,335, Cl. 564-480.000.

GridComm, Inc.: *See—*
  Lewis, Kenneth A.; Alpern, Alan N.; Frank, Andrew C.; and Ross, Stuart E., 4,715,045, Cl. 375-58.000.

Grider, Lyle D. Apparatus for aiding in loading a mobile work platform onto an elevated surface. 4,709,784, 12-1-87, Cl. 182-16.000.

Griebel, Francis J.: *See—*
  McDaniel, Kenneth D., Jr.; Endres, Douglas W.; and Griebel, Francis J., 4,653,654, Cl. 212-182.000.

Grieco, Paul A. 12,16-Difluoroprostaglandin F_2 α compounds. 4,699,996, 10-13-87, Cl. 560-121.000.

Grief, Norbert, to Rhein-Nadel Automation GmbH. Apparatus having a vibratory drive for the feeding of workpieces in rows. 4,651,869, 3-24-87, Cl. 198-750.000.

Grieger, Ronald D.; Fariabi, Sepehr; and Kolawole, Joshua O., to General Electric Company. Graphite cathode cup for gridded x-ray tubes. 4,673,842, 6-16-87, Cl. 313-292.000.

Grier-Idris, Carletta, to Kimberly-Clark Corporation. Conformable surgical face mask. 4,662,005, 5-5-87, Cl. 2-9.000.

Grier, Robert K., Jr.: *See—*
  Linz, David G.; Grier, Robert K., Jr.; Wetzel, Jennifer A.; Dada, Abdul G.; and Connolly, John D., 4,698,214, Cl. 423-260.000.

Grierson, Jeffrey G.; Jones, Carol A.; and Spears, William D., to Dow Chemical Company, The. Corrosion inhibition of metals in water systems using aminophosphonic acid derivatives in combination with manganese. 4,640,818, 2-3-87, Cl. 422-15.000.

Gries, Heinz; Rosenberg, Douwe; and Weinmann, Hanns-Joachim, Schering Aktiengesellschaft. Diagnostic media. 4,647,447, 3-3-87, C 424-9.000.

Gries, Josef: *See—*
  Geiss, Karl-Heinz; Schmied, Bernhard; Raschack, Manfred; Le mann, Hans-Dieter; Gries, Josef; and Ruebsamen, Klau 4,710,496, Cl. 514-183.000.
  Rossy, Phillip A.; Thyes, Marco; Franke, Albrecht; Koenig, Hor Lehmann, Hans Dieter; Gries, Josef; Friedrich, Ludwig; a Lenke, Dieter, 4,636,504, Cl. 514-252.000.

Gries, Willi, to Netzsch-Mohnopumpen GmbH. Method of and a mea for feeding material to a filtering apparatus. 4,659,483, 4-21-87, C 210-709.000.

Griese, Carl A., Jr.: *See—*
  Griese, Edward T.; Griese, Carl A., Jr.; and Griese, Donald A 4,645,055, Cl. 193-2.00R.

Griese, Donald A.: *See—*
  Griese, Edward T.; Griese, Carl A., Jr.; and Griese, Donald A 4,645,055, Cl. 193-2.00R.

Griese, Edward T.; Griese, Carl A., Jr.; and Griese, Donald A. Replaceable liner for a grain elevator discharge spout. 4,645,0 2-24-87, Cl. 193-2.00R.

Griese, Klaus; Mayer, Siegfried; and Weigle, Dieter, to Robert Bos GmbH. Radial piston pump having sealing disc. 4,681,514, 7-21-8 Cl. 417-213.000.

Griesemer, James A.: *See—*
  Alba, Andrew J.; Griesemer, James A.; and Gordon, Robert L 4,711,389, Cl. 229-1.50B.

Grieser, Daniel R.: *See—*
  Sherman, Rand C.; and Grieser, Daniel R., 4,637,056, C 382-31.000.

Grieser, Fritz: *See—*
  Flatz, Josef; Weddigen, Gert; Bohme, Hans-Joachim; Grie Fritz; Huber, Robert; and Nienburg, Hans, 4,691,082, Cl. 106.0SC.

Grieshaber, Herman R. Surgical blade cleaning device. 4,704, 11-10-87, Cl. 15-218.100.

Griesinger, Robert E., to Williams & Lane Energy Systems Corporation. Apparatus for providing a constant fuel consumption rate fo fuel powered turbine. 4,648,242, 3-10-87, Cl. 60-39.030.

Griesinger, Rolf; and Fetzer, Gerhard, to Spindelfabrik Sussen, Sch Stahlecker. Method and apparatus for treating open-end fric spinning rollers. 4,637,172, 1-20-87, Cl. 51-289.00R.

Grieskamp, Hannspeter: *See—*
  Meyer, Urs P., 4,665,854, Cl. 114-39.000.

Grieve, Robert B., to University Patents, Inc. Serodiagnosis of hea worm infection. 4,657,850, 4-14-87, Cl. 435-7.000.

Grieves, Randolph C.: *See—*
  Nelson, Roy A.; Entriken, Raymond A.; and Grieves, Randolph C 4,684,072, Cl. 241-172.000.

Griew, David C. L. Drawing aid. 4,669,197, 6-2-87, Cl. 33-403.000.

Griffee, Leslie V.: *See—*
  Dumas, Theodore A.; and Griffee, Leslie V., 4,682,181, C 343-789.000.

Griffen, Neil C., to Reliance Electric Company. Load cell. 4,657, 4-14-87, Cl. 177-211.000.

Griffen, Neil C., to Reliance Electric Company. Creep-compensa weighing apparatus. 4,691,290, 9-1-87, Cl. 364-567.000.

Griffin, Alan R., to Thin-Lite Corporation. Clip on stand off wirew cover. 4,698,733, 10-6-87, Cl. 362-222.000.

Griffin, Arnold F.; and Hinchliffe, Warren D., to Norcim Investme Pty. Ltd. Gold Recovery processes. 4,681,628, 7-21-87, Cl. 118.00R.

Griffin, Arthur D., Sr. Air ride vehicle front suspension assem 4,664,407, 5-12-87, Cl. 280-689.000.

Griffin, Arthur F., to Hughes Aircraft Company. Method and appara for transferring data between operationally-juxtaposed memories a knowledge-retrieving systems utilizing same. 4,636,974, 1-13-87, C 364-900.000.

Griffin, B. Franklin, Jr.: *See—*
  Bryant, Cal L.; Parrish, Charles A.; and Griffin, B. Franklin, 4,674,403, Cl. 100-4.000.

Griffin, Beacher C. Safety cap for valve on high-pressure cylinde 4,678,003, 7-7-87, Cl. 137-382.000.

Griffin & Company, Inc.: *See—*
  Bultman, Marten; and Wilding, Edwin L., 4,708,23 C 198-835.000.

Griffin, Curtis W. Guide line angle indicator. 4,669,195, 6-2-87, C 33-339.000.

Griffin, Dan M.; Johnson, Clifford T.; and Miller, Larry J., to Spe Corporation. Bit sync generator. 4,653,074, 3-24-87, Cl. 375-106.0

Griffin, Dana K., to Tu-Way Products Company. Wet mop li extractor. 4,707,877, 11-24-87, Cl. 15-261.000.

Griffin, Daniel V., to Whale Scientific, Inc. Disposable unitary cy ogy chamber and filter card for centrifugation of fluid samples a method of making same. 4,678,579, 7-7-87, Cl. 210-477.000.

Griffin, David A.: *See—*
  Clough, John M.; and Griffin, David A., 4,684,396, Cl. 07-92.0

Griffin, David J., to Ira L. Griffin Sons, Inc. Size applicator. 4,674,4 6-23-87, Cl. 118-407.000.

Griffin, Dennis; and Field, Charles A., to Frazer-Nash Limited. A borne missile launcher of modular construction. 4,660,456, 4-2 Cl. 89-1.819.

Griffin, Dennis; and Bond, Arthur C., to Frazer-Nash Limited. Eje release unit. 4,669,356, 6-2-87, Cl. 89-1.570.

Griffin, Dennis, to Frazer-Nash Ltd. Launcher for remotely piloted aircraft. 4,678,143, 7-7-87, Cl. 244-63.000.

Griffin, Dennis, and Field, Charles A., to Frazer-Nash Ltd. Missile launcher. 4,711,151, 12-8-87, Cl. 89-1.805.

Griffin, Edward L.: *See—*
  Bahl, Inder J.; and Griffin, Edward L., 4,701,573, Cl. 174-52.0FP.
  Landis, Richard C.; Griffin, Edward L.; and Bahl, Inder G., 4,647,878, Cl. 333-115.000.

Griffin Environmental Company, Inc.: *See—*
  Bowersox, Thomas E., 4,655,806, Cl. 55-341.0NT.

Griffin, Eric J.; Collier, Richard J.; and Hjipieris, George, to United Kingdom of Great Britain and Northern Ireland, The Secretary of State for Defence in Her Britannic Majesty's Government of the. Six-port reflectometer. 4,641,082, 2-3-87, Cl. 324-58.00B.

Griffin, Everett, to Burlington Industries, Inc. Horizontal bundling with variable entry and exit conveyors. 4,694,636, 9-22-87, Cl. 53-399.000.

Griffin, Graham J.: *See—*
  Barnes, John R.; Diamond, John E.; and Griffin, Graham J., 4,678,147, Cl. 248-74.100.

Griffin, Gregory L.: *See—*
  Yates, John T., Jr.; Griffin, Gregory L.; and Kiskinova, Maya, 4,663,297, Cl. 436-147.000.

Griffin, James G.: *See—*
  Schwarz, Frederick M.; and Griffin, James G., 4,708,588, Cl. 415-115.000.

Griffin, John, to Frazer, Inc. Mobile emergency medical vehicle with auxiliary engine/generator providing AC/DC output. 4,672,296, 6-9-87, Cl. 322-1.000.

Griffin, John C. Flagstaff for alternative uses. 4,650,147, 3-17-87, Cl. 248-539.000.

Griffin, Kevin W.; and Mallette, Robert P. Method of using logic design adhesive symbols. 4,696,706, 9-29-87, Cl. 156-62.000.

Griffin, Leonard R. Lid construction for bowls and the like. 4,662,520, 5-5-87, Cl. 206-459.000.

Griffin, Nigel D., to NL Petroleum Products Limited. Manufacture of rotary drill bits. 4,669,522, 6-2-87, Cl. 164-97.000.

Griffin, Robert M.: *See—*
  Gagnon, Peter R.; Griffin, Robert M.; and Kimball, Stephen F., 4,687,963, Cl. 313-17.000.

Griffin, Roger B.: *See—*
  Taylor, Peter; and Griffin, Roger B., 4,708,548, Cl. 409-234.000.

Griffin, William J. Centering device and method. 4,656,745, 4-14-87, Cl. 33-626.000.

Griffin, William J. Centering device and method. 4,667,549, 5-26-87, Cl. 82-40.00R.

Griffin, William M.: *See—*
  Ball, Lawrence E.; Griffin, William M.; Wallace, Kathleen M.; and Nemecek, Amy L., 4,638,865, Cl. 166-274.000.
  Ball, Lawrence E.; Griffin, William M.; Antloga, Kathleen M.; and Nemecek, Amy L., 4,653,584, Cl. 166-273.000.

Griffin, William R.; Heller, Lawrence G.; and Horowitz, Peter N., to International Business Machines Corporation. Random logic error detecting system for differential logic networks. 4,638,482, 1-20-87, Cl. 371-63.000.

Griffin, William S., to Hughes Aircraft Company. Two-axis optical inertial system using a gyro rotor as a stable reference. 4,662,727, 5-5-87, Cl. 350-500.000.

Griffing, Bruce F.; and West, Paul R., to General Electric Company. Spin castable photobleachable layer forming compositions. 4,677,049, 6-30-87, Cl. 430-339.000.

Griffing, Bruce F.; and West, Paul R., to General Electric Company. Method of enhancing the contrast of images and materials therefor. 4,702,996, 10-27-87, Cl. 430-325.000.

Griffing, Robert S.; and Sullivan, David W., to FMC Corporation. Bipropellant gun and method of firing same. 4,653,380, 3-31-87, Cl. 89-7.000.

Griffing, Robert S.: *See—*
  Chryssomallis, George; and Griffing, Robert S., 4,711,154, Cl. 89-7.000.

Griffioen, Arie: *See—*
  Verduyn, Hendrik A.; and Griffioen, Arie, 4,666,470, Cl. 55-20.000.

Griffith, Bruce S.; and Ward, James E., to Ward, James E. Lifesaving and mooring device. 4,661,077, 4-28-87, Cl. 441-84.000.

Griffith, Carl D.; and McGranor, Ray P., to American Sigma, Inc. Sensor controlled sampling apparatus and method. 4,660,607, 4-28-87, Cl. 141-1.000.

Griffith, Carroll L., and Nielson, Albert E., to Griffith Laboratories U.S.A., Inc. Apparatus for regenerating liquid smoke. 4,637,305 1-20-87, Cl. 99-481.000.

Griffith, Charles A. Method and apparatus for calibrating a material-spreading applicator. 4,693,122, 9-15-87, Cl. 73-861.000.

Griffith, Craig J.: *See—*
  Passaro, Robert E.; Rogers, Raymond E.; and Griffith, Craig J., 4,687,934, Cl. 250-343.000.

Griffith, David W.; Lyon, Michael R.; Bishop, Ross W.; and Friery, Edward H., to Iomega Corporation. Magnetic disk drive having a movable drive motor loading mechanism. 4,663,677, 5-5-87, Cl. 360-71.000.

Griffith, Dwight E. Barbecue pit. 4,702,224, 10-27-87, Cl. 126-8.000.

Griffith, Dwight N. Carrier for empty beverage cans. 4,664,255, 5-12-87, Cl. 206-162.000.

Griffith, John D., to Sulzer Brothers Limited. Yarn metering device. 4,651,786, 3-24-87, Cl. 139-452.000.

Griffith, John D., to Bonas Machine Company Limited. Heald rod retention device. 4,667,704, 5-26-87, Cl. 139-65.000.

Griffith, John D., to Sulzer Brothers Limited. Heald frame for a weaving loom. 4,706,716, 11-17-87, Cl. 139-91.000.

Griffith, John D., to Sulzer Brothers Limited. Weaving loom. 4,715,410, 12-29-87, Cl. 139-434.000.

Griffith, John T., to Electricity Council, The. Induction apparatus for heating and mixing a fluid. 4,678,881, 7-7-87, Cl. 219-10.510.

Griffith Laboratories Limited, The: *See—*
  Banner, Beatrice A.; Richardson, Lucy V.; and Darley, Kenneth S., 4,675,197, Cl. 426-292.000.

Griffith Laboratories U.S.A., Inc.: *See—*
  Griffith, Carroll L., and Nielson, Albert E., 4,637,305, Cl. 99-481.000.

Griffith, Monty: *See—*
  Vandervoort, David; and Griffith, Monty, 4,648,822, Cl. 425-135.000.

Griffith, Robert K.; Hardy, T. Norman; McKnight, Edley V.; and Vavra, Vladimir K., to Honeywell Inc. Variable line extender for wave guide. 4,677,400, 6-30-87, Cl. 333-159.000.

Griffith, Robert K.: *See—*
  Moore, Joseph E.; Yang, Yuh-Lin; Griffith, Robert K.; and Chan, David C. K., 4,652,556, Cl. 514-155.000.

Griffith, Ronald C., to Pennwalt Corporation. Bis-(dibenzo[b,d-]pyranyloxy) propanes. 4,647,674, 3-3-87, Cl. 549-280.000.

Griffith, Ronald C., to Pennwalt Corporation. 7,8,9,10-tetrahydro-6-oxo-6H-dibenzo(b,d)pyranyloxy-propanes. 4,681,954, 7-21-87, Cl. 549-280.000.

Griffith, Ronald C.: *See—*
  Napier, James J.; and Griffith, Ronald C., 4,678,791, Cl. 514-290.000.

Griffith, Selman D. Descent system. 4,645,034, 2-24-87, Cl. 182-231.000.

Griffith University: *See—*
  Thiel, David V., 4,682,118, Cl. 329-122.000.

Griffith, William A.: *See—*
  Lin, Wenli; and Griffith, William A., 4,699,786, Cl. 424-92.000.

Griffith, William R. Packaging wrap. 4,700,844, 10-20-87, Cl. 206-586.000.

Griffiths, Alan D., to Dunlop Limited. Hose. 4,688,604, 8-25-87, Cl. 138-129.000.

Griffiths, Allen F.: *See—*
  Heybourn, Frank; Carter, David C. M.; and Griffiths, Allen F., 4,653,631, Cl. 198-778.000.

Griffiths, Bonnie W.; and Michel, John B., to Du Pont de Nemours, E. I., and Company. Method for treating carbon supports for hydrogenation catalysts. 4,659,686, 4-21-87, Cl. 502-183.000.

Griffiths, James C.: *See—*
  Priem, Richard J.; Ghassemzadeh, M. Reza; and Griffiths, James C., 4,685,510, Cl. 165-62.000.

Griffiths, Richard W. Structural monitoring system using fiber optics. 4,654,520, 3-31-87, Cl. 250-227.000.

Griffiths, Stephen F.: *See—*
  Stevens, Raymond R., Jr.; Beisel, Robert R.; and Griffiths, Stephen F., 4,697,448, Cl. 72-405.000.

Griffiths, Thomas W.; and Suris, Vladimir, to Harvey Hubbell Incorporated. Trolley pole raising and lowering apparatus. 4,634,817, 1-6-87, Cl. 191-67.000.

Griffiths, William A.: *See—*
  Bates, Kenneth W.; and Griffiths, William A., 4,701,215, Cl. 75-53.000.

Griffus, Mike J.: *See—*
  Hardee, Kim C.; and Griffus, Mike J., 4,660,178, Cl. 365-189.000.

Grifols Lucas, Victor. Adjustable valve for liquids for equipment having a medical application. 4,671,320, 6-9-87, Cl. 137-556.300.

Grigar, Larry L., to Halliburton Company. Balanced isolation tool enabling clean fluid in tubing perforated operations. 4,664,184, 5-12-87, Cl. 166-55.100.

Grigar, Larry L.: *See—*
  Luke, Robert R.; Barker, James M.; Smith, Michael L.; Grigar, Larry L.; and Miller, Carl B., 4,678,044, Cl. 175-4.520.

Grigg, David W.: *See—*
  Glover, Anthony R.; and Grigg, David W., 4,686,949, Cl. 123-306.000.

Griggs, Calvin. Compression screw assembly. 4,641,640, 2-10-87, Cl. 128-92.0YV.

Griggs, John C.: *See—*
  Brown, Geoffrey J.; Griggs, John C.; and Hall, John, 4,646,369, Cl. 4-365.000.

Grignon, Jean R.: *See—*
  Lelu, Andre E.; Grignon, Jean R.; Gonthier, Bruno F.; and Tauzia, Jean-Michel, 4,638,735, Cl. 102-290.000.

Grigo, Ulrich: *See—*
  Binsack, Rudolf; Kohler, Karl-Heinz; Grigo, Ulrich; Morbitzer, Leo; Bottenbruch, Ludwig; and Heitz, Walter, 4,686,262, Cl. 525-177.000.

Grigo, Ulrich R.; Lazear, Nelson R.; and Witman, Mark W., to Mobay Corporation. Polycarbonate blends having low gloss. 4,677,162, 6-30-87, Cl. 525-67.000.

Grigo, Ulrich R.: *See—*
  Krishnan, Sivaram; and Grigo, Ulrich R., 4,673,699, Cl. 524-94.000.

Grigoli, Aldo; and Ghioni, Giorgio, to Aigel S.r.l. Machine for manufacturing frozen food products, in particular ice creams, ice lollies and the like. 4,699,583, 10-13-87, Cl. 425-261.000.

Grigsby, Beverly A.: *See—*
  Grigsby, Samuel H.; and Grigsby, Beverly A., 4,702,016, Cl. 34-33.000.

- Grigsby, David A.: *See—*
  - Knasel, Harold E.; and Grigsby, David A., 4,639,184, Cl. 414-730.000.
- Grigsby, James D.: *See—*
  - Root, Steven J.; and Grigsby, James D., 4,706,717, Cl. 139-92.000.
- Grigsby, John M., to North American Container Corp. Reinforced bulk material container. 4,635,815, 1-13-87, Cl. 220-443.000.
- Grigsby, Nancy S.: *See—*
  - Vavrek, Robert M.; and Grigsby, Nancy S., 4,646,046, Cl. 335-301.000.
- Grigsby, Richard: *See—*
  - Kaczmarski, Edward Z.; and Grigsby, Richard, 4,676,028, Cl. 51-105.00R.
- Grigsby, Robert A., Jr.; Dominguez, Richard J. G.; and Speranza, George P., to Texaco Inc. Reaction product of polyoxyalkylene polyamine and an aliphatic isocyanate. 4,705,814, 11-10-87, Cl. 521-159.000.
- Grigsby, Robert A., Jr.; and Speranza, George P., to Texaco Inc. Synthesis of products from polyoxyalkylene amines and 2,6-di-t-butylphenol for use as epoxy accelerators and curing agents. 4,714,750, 12-22-87, Cl. 528-99.000.
- Grigsby, Robert A., Jr., to Texaco, Inc. Reactive glass component in rim. 4,716,193, 12-29-87, Cl. 524-730.000.
- Grigsby, Robert A., Jr.: *See—*
  - Speranza, George P.; Brennan, Michael E., and Grigsby, Robert A., Jr., 4,681,965, Cl. 558-162.000.
- Grigsby, Samuel H.; and Grigsby, Beverly A. Apparatus for drying shoes in a dryer. 4,702,016, 10-27-87, Cl. 34-33.000.
- Grijak, Gerald: *See—*
  - Maleyko, John R. K.; and Grijak, Gerald, 4,693,018, Cl. 36-1.500.
- Grilk, Henry G., to Aqua Meter Instrument Corporation. Sonar depth finder with relative depth LCD display. 4,644,512, 2-17-87, Cl. 367-108.000.
- Grill, Edward. Power indicator light. 4,671,597, 6-9-87, Cl. 362-253.000.
- Grill, Edward. Signalling device. 4,696,252, 9-29-87, Cl. 116-210.000.
- Grill, Hans; and Tappen, Gerhard. Racking device. 4,712,691, 12-15-87, Cl. 211-49.100.
- Grill, Paul E., to Motor Wheel Corporation. Vehicle wheel construction. 4,659,148, 4-21-87, Cl. 301-37.00P.
- Grilli, David A.: *See—*
  - McFadden, Russell T.; Grilli, David A.; and Hunt, William R., 4,670,512, Cl. 525-223.000.
- Grilliot, Mary I.: *See—*
  - Grilliot, William L.; and Grilliot, Mary I., 4,709,421, Cl. 2-81.000.
- Grilliot, William L.; and Grilliot, Mary I. Firefighter's coat. 4,709,421, 12-1-87, Cl. 2-81.000.
- Grillo, Alexander A.: *See—*
  - Galli, Guido; Grillo, Alexander A.; and Lieberman, Barry R., 4,694,424, Cl. 365-12.000.
- Grillo, Susan M.: *See—*
  - Porter, Stuart C.; Woznicki, Edward J.; Grillo, Susan M.; and D'Andrea, Louis F., 4,704,295, Cl. 427-3.000.
- Grim, Claude: *See—*
  - Boden, Richard M.; and Grim, Claude, 4,677,207, Cl. 546-348.000.
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  - Nozeran, Jean-Marc; and Grimaud, Jean-Michel, 4,676,218, Cl. 123-618.000.
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  - Arold, Klaus; Grimm, Hermann, deceased; and Koukal, He
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    Hartmut; Kalfa, Horst; and Grimm, Daniel, 4,656,148, C
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    Theo; Flockenhaus, Claus; Hackler, Erich; Levkov, Blag
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  - Artzt, Peter; Muller, Heinz; Egbers, Gerhard; Grimm, Eberha
    and Schreyer, Franz, 4,676,059, Cl. 57-263.000.
- Grimm, Elaine, administratrix: *See—*
  - Chance, Morrell S.; Jardin, Stephen C.; Stix, Thomas H.; Grim
    Ray C., deceased; Manickam, Janardhan; and Okabaya
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  6-9-87, Cl. 296-216.000.
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  - Deyhle, Henning; and Grisar, Alexander, 4,678,514, Cl. 106-100.000.
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  - Ferraresi, Andrea; and Griselli, Pierluigi, 4,703,090, Cl. 525-246.000.
- Grisgraber, Edwin G.: *See*—
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  - Peyman, Gholam A.; and Grisolano, James M., Jr., 4,674,503, Cl. 128-305.000.
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- Griswold, Frederick D., Jr.: *See*—
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  - Gale, Allan R.; and Gritter, David J., 4,698,562, Cl. 318-254.000.
- Gritti, Serjio, to BP Chemicals Limited. Stabilizers for silicates in antifreeze compositions. 4,648,982, 3-10-87, Cl. 252-75.000.
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  - Couwenberg, Franciscus A. C. M.; Groenenberg, Cornelis J.; and Wetjens, Antonius C. S., 4,716,440, Cl. 355-14.0SH.
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  Czelusniak, Daniel J.; Cooke, Robert J.; and Groleau, Donald K 4,658,490, Cl. 29-271.000.

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Grollier, Jean F.; and Dubief, Claude, to L'Oreal. Washing and foam composition based on non-ionic surface-active agents and anio polymers. 4,657,690, 4-14-87, Cl. 252-90.000.

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Grollimund, Everett C. Flesh cutter of strip for grafting. 4,665,9 5-19-87, Cl. 128-305.500.

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  Spiers, Steven F.; Hinson, Harold T.; Smick, William H. Shelton, Gregory A.; and Grollimund, Everett C., 4,666,550 156-361.000.

Grollius, Horst W.: *See—*

  Wasel, Horst P.; and Grollius, Horst W., 4,711,706, Cl. 204-129.

- Grollman, Arthur P.: *See—*
  - Johnson, Francis; and Grollman, Arthur P., 4,689,321, Cl. 514-45.000.
- Groman, Ernest V.: *See—*
  - Chagnon, Mark S.; Groman, Ernest V.; Josephson, Lee; and Whitehead, Roy A., 4,695,393, Cl. 252-62.540.
  - Whitehead, Roy A.; Chagnon, Mark S.; Groman, Ernest V.; and Josephson, Lee, 4,695,392, Cl. 252-62.540.
  - Whitehead, Roy A.; Chagnon, Mark S.; Groman, Ernest V.; and Josephson, Lee, 4,698,302, Cl. 435-94.000.
- Grombchevsky, Andrei; and Kerner, Aron. Matrix printer and inker for indefinite length articles. 4,705,415, 11-10-87, Cl. 400-124.000.
- Grombchevsky, Andrei: *See—*
  - Kerner, Aron, and Grombchevsky, Andrei, 4,637,743, Cl. 400-124.000.
- Grommes, Helmut: *See—*
  - Dibowski, Gunter, and Grommes, Helmut, 4,705,223, Cl. 241-117.000.
  - Kiefer, Dieter, and Grommes, Helmut, 4,674,693, Cl. 241-101.200.
- Grommes, Robert J. Hat drying form. 4,708,271, 11-24-87, Cl. 223-25.000.
- Gronau, Joachim, and Heins, Klaus-Jurgen, to Phoenix Aktiengesellschaft. T-shaped rubber hose. 4,676,532, 6-30-87, Cl. 285-156.000.
- Grone, Donald J., to United States of America Air Force. Maintenance port system incorporating software development package. 4,700,293, 10-13-87, Cl. 364-200.000.
- Grone, Horst D., to Lin Tec Verpackungstechnik GmbH. Tray for receiving foodstuffs and a process and apparatus for producing it. 4,702,377, 10-27-87, Cl. 206-557.000.
- Gronebaum, Theo: *See—*
  - Kuper, Hans-Heinrich; and Gronebaum, Theo, 4,687,035, Cl. 144-2.00R.
- Groner, Gabriel F.; Dorsey, Eric A.; Williams, Keith M.; and Vyas, Harihar J., to Speech Plus, Inc. Verbal computer terminal system. 4,659,877, 4-21-87, Cl. 379-88.000.
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  - Solberg, Per; and Gronhaug, Jan, 4,660,628, Cl. 165-92.000.
- Gronholz, Donald D.; Schneider, Kirk A.; and Scott, James R., to Donaldson Company, Inc. Air filter device. 4,657,570, 4-14-87, Cl. 55-385.00F.
- Gronle, Hansgeorg: *See—*
  - Beutter, Ulrich, and Gronle, Hansgeorg, 4,676,514, Cl. 277-235.00B.
- Gronlund, Robert L., and Stewart, John, to Knape & Vogt Manufacturing Company. Side mounting bracket for drawer slide. 4,681,289, 7-21-87, Cl. 248-224.400.
- Gronowitz, Jan S.; and Kallander, Clas F. R. Method of determining dTk isoenzyme activity and the use thereof. 4,637,977, 1-20-87, Cl. 435-15.000.
- Gronwald, Gerd: *See—*
  - Wysk, Hans-Joachim; Stellmach, Dieter; Nolte, Bernhard; Gronwald, Gerd; and Maedge, Werner, 4,701,063, Cl. 400-621.000.
- Groo, Dora: *See—*
  - Megyeri, Gabor; Keve, Tibor; Stefko, Bela; Bogsch, Erik; Galambos, Janos; Kassainee Zieger, Anna; Trischler, Ferenc; Palosi, Eva; Groo, Dora; Karpati, Egon; Szombathelyi, Zsolt; Szporny, Laszlo ; Kiss, Bela; Laszlovszky, Istvan; and Lapis, Erzsebet, 4,681,887, Cl. 514-284.000.
- Grooms, Dennis B., Jr. Cigarette incense ashtray holder. 4,700,721, 10-20-87, Cl. 131-238.000.
- Grooms, John M.; and Jones, Mark A., to Burton Mechanical Contractors, Inc. Vacuum sewerage system with in pit breather. 4,691,731, 9-8-87, Cl. 137-205.000.
- Grooms, Joseph J. Accretion apparatus for use in tidal environs and method. 4,647,249, 3-3-87, Cl. 405-28.000.
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- Grootveld, Herman H.: *See—*
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- Gros, Pierre: *See—*
  - Casellas, Pierre; Gros, Pierre; and Jansen, Franz, 4,643,895, Cl. 424-85.000.
  - Duheille, Jean; Pau, Bernard; and Gros, Pierre, 4,690,906, Cl. 436-512.000.
  - Jansen, Franz; and Gros, Pierre, 4,670,563, Cl. 546-278.000.
  - Staron, Philippe; and Gros, Pierre, 4,670,862, Cl. 367-25.000.
  - Staron, Philippe; and Gros, Pierre, 4,686,653, Cl. 367-25.000.
- Grosberg, Percy: *See—*
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- Grosby, Lawton H., to Morley Furniture Spring Corporation. Sinuous band and seat spring assembly. 4,715,587, 12-29-87, Cl. 267-103.000.
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- Groschupp, Karl-Heinz; and Vreeke, Simon P., to Kabelwerke Friedrich C. Ehlers. Drawn mine-removing apparatus. 4,697,522, 10-6-87, Cl. 102-402.000.
- Grose, Ronald D., to Enron Corp. Peak shaving system for air conditioning. 4,637,219, 1-20-87, Cl. 62-199.000.
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- Grose, Ronald D. Aquarium filtering system. 4,687,575, 8-18-87, Cl. 210-169.000.
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  - Cunningham, Richard D.; and Grose, Ronald D., 4,653,321, Cl. 73-197.000.
- Groseth, Morten, to HAG A/S. Tilting mechanism for a chair seat or the like. 4,664,445, 5-12-87, Cl. 297-301.000.
- Groshans, Michael J.: *See—*
  - Meier, Daniel A.; and Groshans, Michael J., 4,705,703, Cl. 427-239.000.
- Groshong, LeRoy E.; and Brawn, Ronald J., to Catheter Technology Corp. Valved two-way catheter. 4,671,796, 6-9-87, Cl. 604-247.000.
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  - Goss, Larry P.; Grosjean, Dennis F.; Sarka, Benjamin, Jr.; Kizirnis, Sigmund W.; and Ganguly, Biswa N., 4,655,608, Cl. 374-119.000.
- Grosjean, Michel. Multiphase motor with magnetized rotor having N pairs of poles with axial magnetization. 4,634,906, 1-6-87, Cl. 310-49.00R.
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- Grosman, Isaac. Method of installing offshore constructions. 4,711,601, 12-8-87, Cl. 405-204.000.
- Gross, Akiva T.: *See—*
  - Chmurny, Alan B.; Gross, Akiva T.; Kupper, Robert J.; and Roberts, Rowena L., 4,710,583, Cl. 560-40.000.
- Gross, Alexander L.: *See—*
  - Parracho, Rui M.; Smith, Lloyd S.; Bunch, Richard P., and Gross, Alexander L., 4,638,576, Cl. 36-68.000.
  - Tonkel, Raymond F.; and Gross, Alexander L., 4,656,760, Cl. 36-28.000.
- Gross, Andrew: *See—*
  - Schultz, Thomas G.; Gross, Andrew; Pappas, Barbara; Shifrin, George D.; and Mack, Lois, 4,713,780, Cl. 364-514.000.
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- Gross, Daniel: *See—*
  - Dahne, Claus, and Gross, Daniel, 4,655,225, Cl. 128-633.000.
- Gross, Daniel A. Injection assisting apparatus. 4,687,472, 8-18-87, Cl. 604-223.000.
- Gross-Given Manufacturing Co.: *See—*
  - Layre, John; Park, Yong S.; and Schollhamer, George K., 4,709,625, Cl. 99-289.00R.
- Gross, Heinz; Gerber, Manfred; Krebs, Rolf; and Retzlaff, Friedhelm, to Hoesch Aktiengesellschaft. Use of the laser welding process for and method of manufacturing of welded construction parts for exhaust installations. 4,656,332, 4-7-87, Cl. 219-121.0LD.
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- Gross, Hermann: *See—*
  - Weinich, Manfred; Gross, Hermann; and Rapp, Herbert, 4,674,796, Cl. 297-391.000.
- Gross, Jacqueline A.: *See—*
  - Van Gompel, Paul T.; Seprise, Jody D.; and Gross, Jacqueline A., 4,706,303, Cl. 2-49.00R.
- Gross, James R., to Kendall Company, The. Medical equipment mounting apparatus. 4,700,922, 10-20-87, Cl. 248-558.000.
- Gross, James R.: *See—*
  - Cianci, James P.; and Gross, James R., 4,692,150, Cl. 604-111.000.
- Gross, Jonathan; and Martin, O. James, to Mobil Oil Corporation. Annular extrusion die with internal choke ring and spider mandrel. 4,711,623, 12-8-87, Cl. 425-3[illegible].00A.
- Gross, Jurgen; and Dinges, Reinhard, to Hoechst Aktiengesellschaft. Photometer head for small test volumes. 4,643,580, 2-17-87, Cl. 356-440.000.
- Gross, Leo: *See—*
  - Skeist, S. Merrill; and Gross, Leo, 4,636,685, Cl. 313-493.000.
- Gross, Michal E.: *See—*
  - Fisanick, Georgia J.; Gross, Michal E.; and Wolk, Gary L., 4,636,403, Cl. 427-53.100.

- Gross, Peter L., to Gross, Thomas L., a part interest. Material handling rack with transportation means. 4,712,966, 12-15-87, Cl. 414-458.000.
- Gross, Rainer: *See*—
  - Franckowiak, Gerhard; Bechem, Martin; Gross, Rainer; Kayser, Michael; Schramm, Matthias; and Thomas, Gunter, 4,710,501, Cl. 514-256.000.
  - Goldmann, Siegfried; Schramm, Matthias; Thomas, Gunter; and Gross, Rainer, 4,642,310, Cl. 514-301.000.
  - Goldmann, Siegfried; Schramm, Matthias; Thomas, Gunter; and Gross, Rainer, 4,668,691, Cl. 514-337.000.
  - Gorlitzer, Klaus; Bartke, Ulrich; Goldmann, Siegfried; Schramm, Matthias; Thomas, Gunter; and Gross, Rainer, 4,647,568, Cl. 514-302.000.
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  - Stoltefuss, Jurgen; Heiker, Fred R.; Franckowiak, Gerhard; Schramm, Matthias; Thomas, Gunter; and Gross, Rainer, 4,645,775, Cl. 514-352.000.
- Gross, Raymond J.: *See*—
  - Herring, Donald E.; and Gross, Raymond J., 4,645,471, Cl. 446-258.000.
  - Renger, Larry H.; and Gross, Raymond J., 4,655,720, Cl. 446-61.000.
- Gross, Richard A., to United States of America, Air Force. Synthetic aperture laser radar. 4,687,281, 8-18-87, Cl. 350-3.660.
- Gross, Richard M.: *See*—
  - Peters, Bruce C.; Mayes, M. Dale; Gross, Richard M.; and Pearson, Stanley R., 4,653,677, Cl. 222-591.000.
- Gross, Robert F.: *See*—
  - Coe, Thomas D.; and Gross, Robert F., 4,659,987, Cl. 324-158.00P.
- Gross, Robert L. Method for diagnosis of A.I.D.S. 4,716,107, 12-29-87, Cl. 435-7.000.
- Gross, Sidney; and Hersey, Devin W., to Boeing Company, The. Closed cryogenic cooling system without moving parts. 4,671,080, 6-9-87, Cl. 62-467.000.
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  - Gross, Peter L., 4,712,966, Cl. 414-458.000.
- Gross, Walter: *See*—
  - Ullmann, Wolfgang; and Gross, Walter, 4,661,999, Cl. 455-328.000.
- Gross, William H., to National Semiconductor Corporation. High accuracy tachometer circuit. 4,705,969, 11-10-87, Cl. 307-519.000.
- Grossa, Mario, to Du Pont de Nemours, E. I., and Company. Process for forming positive tonable images using a photosensitive material containing at least 1,4-dihydropyridine. 4,698,293, 10-6-87, Cl. 430-291.000.
- Grossa, Mario, to Du Pont de Nemours, E. I., and Company. Method for reducing color cross-contamination during re-imaging of phototackifiable materials. 4,716,095, 12-29-87, Cl. 430-291.000.
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  - Brouwer, Marius S.; Grosscurt, Arnoldus C.; and van Hes, Roelof, 4,656,193, Cl. 514-594.000.
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- Grosse, Hillman R. Centering fixture for wood turning lathe. 4,702,132, 10-27-87, Cl. 82-40.00R.
- Grosse, Joachim; Hess, Ruediger; Kuhl, Wilfried; and Mueller, Reiner, to Siemens Aktiengesellschaft. Contact arrangement for vacuum switches with axial magnetic field, and method for the production of the respective contact pieces. 4,695,687, 9-22-87, Cl. 200-144.00B.
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- Grosse-Scharmann, Franz: *See*—
  - Harrsen, Jan; Grosse-Scharmann, Franz; and Gattermann, Bernd, 4,651,331, Cl. 377-6.000.
  - Harrsen, Jan; Grosse-Scharmann, Franz; and Gattermann, Bernd, 4,675,520, Cl. 250-222.200.
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- Grosshandler, Sandor: *See*—
  - Morris, Gregory J. E.; and Grosshandler, Sandor, 4,654,134, Cl. 204-252.000.
  - Morris, Gregory J. E.; Grosshandler, Sandor; Beaver, Richard N.; Pimlott, John R.; and Dang, Hiep D., 4,673,479, Cl. 204-279.000.
- Grosshans, Jurgen. Case for writing utensils. 4,650,071, 3-17-87, Cl. 206-214.000.
- Grosshans, Peter: *See*—
  - Felleisen, Peter; Krug, Aribert; and Grosshans, Peter, 4,656,420, Cl. 324-212.000.
- Grossheim, Edward T.: *See*—
  - Nelson, John E.; Grossheim, Edward T.; and Perelman, Franklin M., 4,673,929, Cl. 340-703.000.
- Grossi, Anthony V.: *See*—
  - Hahn, Louis T.; Grossi, Anthony V.; Marzocchi, Alfred; and Bolen, Charles E., 4,647,606, Cl. 524-62.000.
- Grossi, Lucio. Automatic article dispenser using screw-driven mobile trays. 4,671,426, 6-9-87, Cl. 221-75.000.
- Grossi, Pierre-Jean: *See*—
  - Andre, Jean-Daniel; Grossi, Pierre-Jean; Heymes, Alain; and Manzaroli, Giovanni V., 4,675,419, Cl. 549-79.000.
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- Grossinger, Israel, to Savin Corporation. Charge and bias control system for electrophotographic copier. 4,678,317, 7-7-87, Cl. 35 14.00D.
- Grosskinsky, Otto-Alfred; Frommer, Elmar; Ritz, Josef; Thomas, Erwin; and Weiss, Franz-Josef, to BASF Aktiengesellschaft. Stab lized solutions of hydroxylamine or its salts in water or alcohols, an their preparation. 4,634,584, 1-6-87, Cl. 423-265.000.
- Grosskreuz, Gerhard; and Kleinophorst, Edith. Apparatus for simultaneously filling a plurality of containers with liquid, gaseous or solid substances. 4,651,788, 3-24-87, Cl. 141-83.000.
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- Grossman, Bertrand M.: *See*—
  - Fang, Frank F.; and Grossman, Bertrand M., 4,649,638, Cl 29-590.000.
- Grossman, David G., and Johnson, Janet L. M., to Corning Glass Works. Glass-ceramic compositions for dental constructs. 4,652,31 3-24-87, Cl. 106-35.000.
- Grossman, Hermann: *See*—
  - Iniotakis, Nicolas; von der Decken, Claus-Benedict; Frohling, Werner; Schoeller, Jochen; and Grossman, Hermann, 4,655,7 Cl. 55-16.000.
- Grossman, Hyman: *See*—
  - Coville, William E.; Grossman, Hyman; and Sokol, Michael 4,695,430, Cl. 422-65.000.
- Grossman, Jack J., to McDonnell Douglas Corporation. Radiation dispersing cavities. 4,667,112, 5-19-87, Cl. 250-503.100.
- Grossman, Mark: *See*—
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- Grossman, Mark W.; George, William A.; and Maya, Jakob, to GTE Products Corporation. Low pressure arc discharge lamp apparatus with magnetic field generating means. 4,698,547, 10-6-87, Cl. 313-485.000.
- Grossman, Mark W., to GTE Products Corporation. Method and apparatus for monitoring the flow of mercury in a system. 4,713,54 12-15-87, Cl. 250-373.000.
- Grossman, Richard D. Skateboard assembly. 4,645,223, 2-24-87, Cl. 280-11.280.
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- Grossmann, Horst; Kalbacher, Klaus; Kolesch, Claus; and Schekulin, Karl, to Black & Decker Inc. Rotary hammer driving mechanism 4,657,088, 4-14-87, Cl. 173-13.000.
- Grossmann, Jurg; and Grossmann, Marcel. Fastening of a covering material to a substratum. 4,711,681, 12-8-87, Cl. 156-71.000.
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- Grossmann, Marcel: *See*—
  - Baumann, Hans-Peter; and Grossmann, Marcel, 4,657,957, Cl. 524-245.000.
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- Grossmann, Steffen: *See*—
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- Grossmann, Udo; Holzinger, Dieter; and Rohde, Guenter, to J. M. Voith GmbH. Method for transferring a web from a finished roll to a new core, and drum winder for the application of the method 4,695,004, 9-22-87, Cl. 242-56.00R.
- Grossmann, Walter: *See*—
  - Link, Helmut F.; and Grossmann, Walter, 4,644,636, Cl. 29-568.00
- Grosso, Carl: *See*—
  - Wilkinson, Blair E., 4,711,579, Cl. 356-375.000.
- Grosso, Donald S.; and Park, Brian V., to Teleco Oilfield Services Inc. Explosion and flame proof electrical connector protective assembly 4,676,574, 6-30-87, Cl. 439-271.000.
- Grosso, Ronald F.: *See*—
  - Tobolski, Edward; Grosso, Ronald F.; Cieplak, Joseph; La Elliot; and Hershberger, Ralph, 4,667,509, Cl. 73-83.000.
- Grosso, Vincent A.; Fitzgerald, Robert J.; and DeFonzo, Richard J., Raytheon Company. Strap down roll reference. 4,676,456, 6-30- Cl. 244-3.210.
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Konnemann, Alfred, 4,707,050, Cl. 439-747.000.
Mantlik, Konrad, 4,660,915, Cl. 339-61.00R.

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Michele, Jurgen, 4,679,621, Cl. 165-145.000.

Grote, Warren; and Leu, Frederick R., to American Trading and Production Corporation. Loudspeaker mounting system. 4,673,149, 6-16-87, Cl. 248-343.000.

Grotelueschen, Ralph D.: *See—*
Douglas, Gary R.; Kusy, Paul F.; and Grotelueschen, Ralph D., 4,671,882, Cl. 210-720.000.

Grotenhuis, Gerrit, to Duphar International Research B.V. Syringe. 4,668,223, 5-26-87, Cl. 604-191.000.

Groth, Edward J., Jr., to Motorola, Inc. Monopulse tracking system substantially free of externally generated noise. 4,706,093, 11-10-87, Cl. 342-427.000.

Groth, Hugh F.: *See—*
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Groth, Rolf: *See—*
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Groth, Ronald W.; and Nowakowski, Robert J., to Orion Corporation. Segmental bearing shoe. 4,714,357, 12-22-87, Cl. 384-312.000.

Grothaus, Roger H.; and Hildebrandt, Donald W., to S. C. Johnson & Son, Inc. Trap for houseflies. 4,689,915, 9-1-87, Cl. 43-112.000.

Grothaus, Roger H., and Hildebrandt, Donald W., to S. C. Johnson & Son, Inc. Method of trapping flying insects. 4,696,126, 9-29-87, Cl. 43-112.000.

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Grothe, Steven P.; and Narveson, Parm L., to Sperry Corporation. Dynamic stroke priority generator for hybrid display. 4,635,050, 1-6-87, Cl. 340-734.000.

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Javorik, Laszlo, 4,685,323, Cl. 72-354.000.

Grotto, Ferdinando, to Oroamerica, Inc. Lock for ornamental jewelry chain. 4,672,724, 6-16-87, Cl. 24-616.000.

Grotto, La Von P. Grain cleaning auger. 4,684,458, 8-4-87, Cl. 209-31.000.

Ground, Damon R., to Minnesota Mining and Manufacturing Company. Attaching assembly. 4,706,914, 11-17-87, Cl. 248-74.300.

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Williams, David A.; and Wright, Peter G., 4,639,013, Cl. 280-707.000.

Groupe Finot: *See—*
Finot, Jean-Marie, 4,674,427, Cl. 114-39.000.

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Couillard, Francois, 4,643,651, Cl. 417-265.000.

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Shroot, Braham; Eustache, Jacques; and Bouclier, Martine, 4,666,941, Cl. 514-569.000.

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Carre, Jean, 4,641,039, Cl. 290-44.000.

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Grove, Jerry E. Snap fastener tool. 4,694,550, 9-22-87, Cl. 29-267.000.

Grove, John A., to United States Steel Corporation. Apparatus for significantly decreasing undesired variation in the alignment of adjustable continuous caster mold walls. 4,679,614, 7-14-87, Cl. 164-436.000.

Grove, Michael M.: *See—*
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Grove, R. K.: *See—*
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Grover, Bhadra S., to Union Carbide Corporation. Process for the removal of acid gases from gas mixtures. 4,702,898, 10-27-87, Cl. 423-220.000.

Grover, Donald D.: *See—*
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Grover, George M.; and Chrisman, Robert H., to Q-Dot Corporation. Heat pipe. 4,640,347, 2-3-87, Cl. 165-104.260.

Grover, Raman: *See—*
Rao, Chennupati K.; Arora, Sudershan K.; Grover, Raman; Durden, John A.; and D'Silva, Themistocles D. J., 4,637,901, Cl. 260-544.00C.

Grover, Todd C. Waterbed. 4,635,307, 1-13-87, Cl. 5-451.000.

Grover, Wayne D., to Northern Telecom Limited. Method and apparatus for detecting frame synchronization. 4,674,088, 6-16-87, Cl. 370-100.000.

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Billigmeier, James E.; Groves, James D.; Haugen, Harwick A.; and Pokorny, Richard J., 4,639,483, Cl. 524-296.000.

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Bongard, James A.; Delaney, Michael J.; Duncan, Eugene F.; Fredricks, Cheryl A.; Groves, John P.; Kalista, Daniel J.; Klingseisen, Paul; Lazzaro, Joseph; and Nadolski, Gregory L., 4,678,867, Cl. 174-135.000.

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Groves, Kenneth W., to Sperry Corporation. Sonar beam steering circuit. 4,661,937, 4-28-87, Cl. 367-103.000.

Groves, William A.; Snook, Matthew L., and Browen, Rodney, to Hewlett-Packard Company. Circuit tester having on-the-fly comparison of actual and expected signals on test pins and improved homing capability. 4,642,561, 2-10-87, Cl. 324-73.00R.

Groves, William A.; Snook, Matthew L.; and Browen, Rodney, to Hewlett-Packard Company. Circuit testing utilizing data compression and derivative mode vectors. 4,652,814, 3-24-87, Cl. 324-73.00R.

Growdon, John H.; and Wurtman, Richard J., to Massachusetts Institute of Technology. Process and composition for treating disorders by administering amphetamine and choline. 4,636,494, 1-13-87, Cl. 514-78.000.

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Spiegel, H. Jay; and Groza, Louis R., 4,655,453, Cl. 273-55.00B.

Grozinger, Karl G.; and Oliver, James T., to Boehringer Ingelheim Pharmaceuticals, Inc. Diazine-ethenylphenyl oxamic acids and esters and salts thereof. 4,681,884, 7-21-87, Cl. 514-256.000.

Grubbs, Donald K., to Aluminum Company of America. Alumina from high silica bauxite. 4,661,328, 4-28-87, Cl. 423-121.000.

Grubbs, Harvey J.: *See—*
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Grubbs, Jack M.: *See—*
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Grube, Clifford E.; and Kalnins, William, to Associated Mills, Inc. Smokeless ashtray. 4,671,300, 6-9-87, Cl. 131-231.000.

Grube, Herbert E.; Sciaraffa, Michael A.; Kaspar, Mark L.; and Kaczmarzyk, Leonard M., to Kimberly-Clark Corporation. Disposable diaper with refastenable tape system. 4,655,761, 4-7-87, Cl. 604-389.000.

Grube, William L., to MacLean-Fogg Company. Method for manufacture of captive nut and washer. 4,654,913, 4-7-87, Cl. 10-86.00R.

Gruber, Bernhard: *See—*
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Gruber, Bruce A.; Langer, Heimo J., and Dunnavant, William R., to Ashland Oil, Inc. Composition, method for preparing and use thereof. 4,636,537, 1-13-87, Cl. 523-139.000.

Gruber, David: *See—*
Weinberger, Joseph; Bricault, Gary S.; Gruber, David; and Rakover, Eleonora, 4,712,907, Cl. 355-7.000.

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- Gruber, Gerhard: *See—*
  - Conrad, Ulrich; Moser, Peter; and Gruber, Gerhard, 4,640,256, Cl. 123-568.000.
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- Gruber, James R.; Gudath, Ernest A.; Michalski, Dennis H.; Riddle, Robert R.; and Stana, Regis R., to International Minerals & Chemical Corp. Defluorination kiln restriction control agent and method. 4,716,026, 12-29-87, Cl. 423-167.000.
- Gruber, Mark B., to Du Pont de Nemours, E. I., and Company. Method and apparatus for laying down tapes. 4,714,509, 12-22-87, Cl. 156-272.200.
- Gruber, Peter: *See—*
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  - Schepky, Gottfried; Brickl, Rolf; Gruber, Peter; Schmid, Jochen; and Springmeier, Ursula, 4,650,664, Cl. 424-456.000.
  - Voss, Gunther M.; Glasel, Volker I.; Gruber, Peter; and Bubeck, Walter, 4,707,309, Cl. 264-12.000.
- Gruber, Peter A.: *See—*
  - Flint, Ephraim B.; Gruber, Peter A.; Marks, Ronald F.; Olive, Graham; and Zingher, Arthur R., 4,685,606, Cl. 228-123.000.
- Gruber, Robert J.: *See—*
  - Knapp, John F.; and Gruber, Robert J., 4,634,649, Cl. 430-109.000.
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  - Forgo, Imre; Manso, Elvio; Gruber, Urs; and Huwyler, Rene, 4,666,954, Cl. 522-83.000.
- Gruber, Walter F., to Hansa Metallwerke AG. Hand shower. 4,703,893, 11-3-87, Cl. 239-391.000.
- Gruber, Werner: *See—*
  - Dohr, Manfred; Wiemers, Norbert; and Gruber, Werner, 4,708,973, Cl. 523-102.000.
- Gruber, Wolfgang: *See—*
  - Rauscher, Elli; Schaich, Eugen; Neumann, Ulrich; Wahlefeld, August; Gruber, Wolfgang; and Empl, Bernhard, 4,709,020, Cl. 536-17.800.
- Grubka, Lawrence J.; and Nyhart, Randall E., to Owens-Corning Fiberglas Corporation. Method and apparatus for forming glass fibers. 4,664,688, 5-12-87, Cl. 65-1.000.
- Grubka, Lawrence J.: *See—*
  - Greene, Neil E.; Grubka, Lawrence J.; and Nyhart, Randall E., 4,673,428, Cl. 65-2.000.
- Grubman, Moe M. Non-pucker necktie. 4,694,509, 9-22-87, Cl. 2-144.000.
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- Grudkowski, Thomas W.; and Montress, Gary K., to United Technologies Corporation. Large bandwidth SAW adaptive processor arrangement. 4,661,923, 4-28-87, Cl. 364-821.000.
- Grudkowski, Thomas W.: *See—*
  - Merritt, Sears W.; Grudkowski, Thomas W.; and Montress, Gary K., 4,656,601, Cl. 364-821.000.
- Grudzinskas, Charles A. Circuit breaker lock forming tool. 4,651,554, 3-24-87, Cl. 72-410.000.
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- Gruenbaum, William T.; Harmon, Julie P.; and Roberts, Luther C., to Eastman Kodak Company. Colored electroscopic toners containing quenched esterified rhodamine dyes. 4,711,832, 12-8-87, Cl. 430-106.000.
- Gruenblat-Nordau, Claudy-Gabrielle: *See—*
  - Tschopp, Alexander; Gruenblat-Nordau, Claudy-Gabrielle; Huber, Beat; and Cogoli, Augusto, 4,680,266, Cl. 435-284.000.
- Gruendig, Manfred W.: *See—*
  - Kritchevsky, Gina R.; Gregor, John A.; Gruendig, Manfred W.; Sellers, Gregory J.; and Liss, Barbara, 4,678,699, Cl. 428-175.000.
- Gruenke, Roger A., to Du Pont de Nemours, E. I., and Company. Radiation responsive integrating amplifier. 4,666,301, 5-19-87, Cl. 356-215.000.
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  - Samson, Sam; and Gruenspecht, Mark J., 4,690,651, Cl. 441-56.000.
- Gruenstein, Eric I.; and Turner, Richard T., to University of Cincinnati. Multiple efflux apparatuses for transferring fluid. 4,649,967, 3-17-87, Cl. 141-59.000.
- Gruest, Jacqueline: *See—*
  - Montagnier, Luc; Chermann, Jean-Claude; Barre-Sinoussi, Francoise; Brun-Vezinet, Francoise; Rouzioux, Christine; Rozenbaum, Willy; Dauguet, Charles; Gruest, Jacqueline; Nugeyre, Marie-Therese; Rey, Francoise; Axler-Blin, Claudine; Chamaret, Solange; Gallo, Robert C.; Popovic, Mikulas; and Sarngadhara Mangalasseril G., 4,708,818, Cl. 435-5.000.
- Gruet, Victor B., to Computer Information System, Inc. Pouch assembly for computer container. 4,701,003, 10-20-87, Cl. 439-680.000.
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  - Chang, Ping W.; Gruetzmacher, Gordon D.; Meltz, Clifford N and Totino, Rocco A., 4,708,974, Cl. 523-130.000.
- Grufman, Fredrik A. Safety belts and the like. 4,714,134, 12-22-87, C 182-3.000.
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- Grumbine, Michael T., to Paragon Podiatry Laboratories. Low profi functional orthotic. 4,686,993, 8-18-87, Cl. 128-581.000.
- Grumet, Alex, to Grumman Aerospace Corporation. Aircraft sk antenna. 4,716,417, 12-29-87, Cl. 343-708.000.
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  - Engleman, Edgar G.; Foung, Steven K. H.; and Grumet, F. Car 4,634,666, Cl. 435-68.000.
- Grumet, Frank C.; and Engleman, Edgar G., to Leland Stanford Junior University, The Board of Trustees of the. Method for B cell typing o total human lymphocyte sample. 4,657,852, 4-14-87, Cl. 435-7.000.
- Grumman Aerospace Corporation: *See—*
  - Barton, Richard O.; Bergin, Michael T.; and Miller, John M 4,690,563, Cl. 356-375.000.
  - Berlin, Edwin P., Jr.; Gardner, Geoffrey Y.; Gelman, Robert M and Gershowitz, Michael N., 4,677,576, Cl. 364-522.000.
  - Black, Stephen J.; Hitzigrath, Richard; Rosenblatt, Arnold; an Grundy, Douglas H., 4,705,100, Cl. 165-40.000.
  - Brandsetter, Robert W.; Schwarz, Jakob; and Seidon, Arno 4,679,048, Cl. 342-61.000.
  - Brandstetter, Robert W.; Fonneland, Nils J.; and Lindig, Charle E., 4,645,300, Cl. 350-162.120.
  - Brandstetter, Robert W.; Doucette, Adrian R., deceased; Kapla Herman; Lindig, Charles E.; and Fonneland, Nils J., 4,699,4 Cl. 350-162.120.
  - Clarius, George A., 4,698,603, Cl. 332-31.00R.
  - Corbett, Marshall J., 4,700,912, Cl. 244-63.000.
  - Corbett, Marshall J.; and Belisle, Joseph A., 4,703,694, C 102-374.000.
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  - Devino, Steven, 4,652,919, Cl. 358-143.000.
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  - Kirsch, Jerome; Kopsco, M. Alan; Markow, Edward; and Sturm Michael, 4,685,641, Cl. 244-105.000.
  - Klein, Robert W., 4,697,768, Cl. 244-191.000.
  - Kopsco, Michael A.; and Markow, Edward G., 4,708,186, C 152-516.000.
  - Kornely, Michael, 4,658,971, Cl. 212-159.000.
  - Kuless, Madeline A., 4,640,114, Cl. 72-22.000.
  - Leib, Kenneth G.; Peck, Alexander N., II; and Jue, Suey, 4,703,99 Cl. 350-375.000.
  - Markow, Edward G., 4,673,014, Cl. 152-156.000.
  - Markow, Edward G., 4,705,087, Cl. 152-5.000.
  - Mead, Albert R., 4,675,061, Cl. 156-155.000.
  - Mead, Albert R., 4,679,292, Cl. 29-447.000.
  - Mead, Albert R., 4,701,293, Cl. 264-258.000.
  - Mihelich, Peter J., 4,669,162, Cl. 29-33.00M.
  - Miller, John; Barton, Richard O.; and Schaefer, Oscar H 4,690,365, Cl. 248-650.000.
  - Moore, William H., 4,674,716, Cl. 244-207.000.
  - Pallmeyer, Henry L., 4,660,265, Cl. 29-243.500.
  - Roedig, Robert, 4,635,827, Cl. 222-160.000.
  - Sarrantonio, August C., 4,678,141, Cl. 244-2.000.
  - Schmitz, Charles E.; Wimberly, Richard C.; and Carlson, Donal J., 4,659,931, Cl. 250-338.000.
  - Schmitz, Charles E., 4,703,170, Cl. 250-211.00R.
  - Suarez, Jesus A.; and Ewen, John R., 4,667,906, Cl. 244-124.000
  - Sue, Bing S., 4,703,683, Cl. 92-24.000.
  - Szuchy, Nicholas C., 4,692,610, Cl. 250-227.000.
  - Wertheim, Max M., 4,645,940, Cl. 307-66.000.
  - Yee, Seening, 4,710,653, Cl. 307-518.000.
- Grumman Data Systems Corporation: *See—*
  - Gaenzle, Todd; and Zeidler, William F., 4,655,429, Cl. 248-553.00
- Grummer, William L.; and Blake, Clifton A., Jr., to Datametrics Corpo ration. Thermal print head and process for producing. 4,635,07 1-6-87, Cl. 346-76.0PH.
- Grummett, Dennis W., to NCR Corporation. Mask for wave solderin machine. 4,682,723, 7-28-87, Cl. 228-39.000.

in. Charles: *See*—

Solomon, Frank; Grun, Charles; Abrahamson, Donald W.; Stewart, James J.; and Niksa, Marilyn J., 4,687,553, Cl. 204-16.000.

nau Company, Inc.: *See*—

Simons, John R., 4,662,455, Cl. 169-37.000.

nberg, Pierre, to Valeo. Automatic clutch control device. 4,651,855, 24-87, Cl. 192-0.032.

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Deschler, Ulrich; Grund, Andreas; and Prescher, Guenter, 4,705,868, Cl. 549-215.000.

Prescher, Guenter; Grund, Andreas; Petsch, Heinrich; and Boehme, Georg, 4,642,387, Cl. 568-446.000.

nd, Christian: *See*—

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nd, Karl. Basemented floor structure for a waste dump. 4,697,954,)-6-87, Cl. 405-128.000.

ndahl, Bryce K.: *See*—

Grundahl, John C.; and Grundahl, Bryce K., 4,648,582, Cl. 254-133.00R.

ndahl, John C.; and Grundahl, Bryce K. Portable clamping device r a wheel jack. 4,648,582, 3-10-87, Cl. 254-133.00R.

ndei, Hans, to S + G Implants GmbH. Implant replacement for a tracted tooth. 4,648,842, 3-10-87, Cl. 433-175.000.

ndei, Hans, to S + G Implants GmbH. Prosthesis as replacement for amputated breast. 4,676,795, 6-30-87, Cl. 623-8.000.

ndei, Hans, to S + G Implants GmbH. Anchorage for tibia plates. 711,639, 12-8-87, Cl. 623-20.000.

ndei, Hans, to S + G Implants GmbH. Femur prosthesis part of a nee joint endoprosthesis. 4,714,471, 12-22-87, Cl. 623-20.000.

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Jensen, Niels D.; and Jensen, Jan, 4,647,228, Cl. 384-420.000.

ndig E.M.V. Elektro-Mechanische Versuchsanstalt Max Grundig elland, Stiftung & Co. KG: *See*—

Eckstein, Karlheinz, 4,704,788, Cl. 29-603.000.

ndig E.M.V. Elektro-Mechanische Versuchsantalt Max Grundig olland Stiftung & Co. KG: *See*—

Ioannides, Gregor, 4,713,964, Cl. 73-116.000.

ndke, Ulrich: *See*—

Jellinek, Karl; Meier, Bert; and Grundke, Ulrich, 4,701,478, Cl. 522-97.000.

ndken, Dieter; and Redder, Manfred, to Gewerkschaft Eisenhutte estfalia. Retaining element. 4,646,905, 3-3-87, Cl. 198-735.000.

ndken, Dieter; Redder, Manfred; Roling, Franz; Sauer, Michael, nd Schoop, Gunther-Dietmar, to Gewerkschaft Eisenhutte Westlia. Scraper-chain conveyor channel section. 4,658,952, 4-21-87, Cl. 98-735.000.

ndken, Dieter; and Bruggemann, Reinhold, to Gewerkschaft Eisenutte Westfalia GmbH. Transfer station. 4,673,079, 6-16-87, Cl. 98-599.000.

ndken, Dieter; Redder, Manfred; and Schewinski, Hartmut, to ewerkschaft Eisenhutte Westfalia. Scraper-chain conveyors for ineral mining. 4,705,160, 11-10-87, Cl. 198-735.000.

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Schoop, Gunther-Dietmar; Roling, Franz; Grundken, Dieter; Redder, Manfred; Schewinski, Hartmut; and Temme, Helmut, 4,667,811, Cl. 198-735.000.

ndl, Andreas: *See*—

Heidelberg, Gotz; Grundl, Andreas; and Rosner, Peter, 4,686,435, Cl. 318-135.000.

ndmann, Reinhard; and Kramer, Carl, to Palitex Project-Company nbH. Mechanism for purging fiber fluff and dust from a spindle sembly of a two-for-one twister textile thread processing machine. 671,054, 6-9-87, Cl. 57-304.000.

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ndy Dispense Systems, Inc.: *See*—

Brown, Anthony D., 4,711,377, Cl. 222-400.700.

Harrison, David C.; and Glover, Brian, 4,715,414, Cl. 141-302.000.

ndy, Douglas H.: *See*—

Black, Stephen J.; Hitzigrath, Richard; Rosenblatt, Arnold; and Grundy, Douglas H., 4,705,100, Cl. 165-40.000.

ndy, Michael J., to Toro Company, The. Oscillating sprinkler. 708,291, 11-24-87, Cl. 239-242.000.

nenfelder, Pius: *See*—

Rilie, Eduard; Kaiser, Erich; and Grunenfelder, Pius, 4,668,373, Cl. 204-298.000.

ner, Heiko; and Muller, Markus, to Plasmainvent AG. Plasma spray in for internal coatings. 4,661,682, 4-28-87, Cl. 219-121.0PL.

ner, Manfred, to Mannesmann Aktiengesellschaft. Controlling a c. motor. 4,701,685, 10-20-87, Cl. 318-309.000.

ner, Ronald H.; Clancy, Gerald F.; Mundie, Craig J.; Schleimer, ephen I.; Wallach, Steven J.; Bratt, Richard G.; Gavrin, Edward S.; allach, Walter A., Jr.; Ahlstrom, John K.; Richmond, Michael S.; Bernstein, David H.; Pilat, John F.; Farber, David A.; and Belgard, Richard A., to Data General Corp. Digital data processing system having a uniquely organized memory system using object-based addressing and in which operand data is identified by names accessed by name tables. 4,675,810, 6-23-87, Cl. 364-200.000.

Gruner, Ronald H.: *See*—

Bachman, Brett L.; Bernstein, David H.; Bratt, Richard G.; Clancy, Gerald F.; Gavrin, Edward S.; Gruner, Ronald H.; Jones, Thomas M.; Katz, Lawrence H.; Mundie, Craig J.; Pilat, John F.; Richmond, Michael S.; Schleimer, Stephen I.; Wallach, Steven J.; and Wallach, Walter A., Jr., 4,656,579, Cl. 364-200.000.

Grunert, Kurt A.; Walker, Roger E.; Paton, Charles R.; and Leone, David A., to Westinghouse Electric Corp. Circuit breaker with arc chamber vent. 4,639,564, 1-27-87, Cl. 200-144.00R.

Grunert, Kurt A.; Walker, Roger E.; Paton, Charles R.; Leone, David A.; and Turner, David C., to Westinghouse Electric Corp. Circuit breaker with arc gas vent baffle. 4,650,940, 3-17-87, Cl. 200-144.00R.

Grunert, Kurt A.; and Maier, Alfred E., to Westinghouse Electric Corp. Circuit breaker with trip delay magnetic circuit. 4,683,451, 7-28-87, Cl. 335-174.000.

Grunert, Kurt A., and Changle, Joseph F., to Westinghouse Electric Corp. Circuit breaker with electrical disconnect means. 4,691,180, 9-1-87, Cl. 335-6.000.

Grunert, Kurt A.; and Farley, James R., to Westinghouse Electric Corp. Circuit breaker with impact trip delay. 4,697,163, 9-29-87, Cl. 335-174.000.

Grunert, Kurt A.; and Schlosser, Donald E., to Westinghouse Electric Corp. Circuit breaker with push-to-trip button and trip bar. 4,713,639, 12-15-87, Cl. 335-172.000.

Grunert, Kurt A.: *See*—

Matsko, Joseph J.; Grunert, Kurt A.; and Terhorst, Bruce R., 4,642,726, Cl. 361-198.000.

Wafer, John A., and Grunert, Kurt A., 4,660,009, Cl. 335-6.000.

Grunfeld, Frank A., to Nima Technology Limited. Thin film deposition. 4,646,678, 3-3-87, Cl. 118-667.000.

Grunig, Rudolf: *See*—

Berger, Erwin; and Grunig, Rudolf, 4,639,581, Cl. 235-101.000.

Gruning, Burghard; Holtschmidt, Ulrich; Koerner, Goetz; and Rossmy, Gerd, to Th. Goldschmidt AG. Particles, modified at their surface by hydrophilic and hydrophobic groups. 4,715,986, 12-29-87, Cl. 252-315.200.

Gruninger, Edgar, to FFA Flug-und Fahrzeugwerke AG. Sealing process. 4,648,911, 3-10-87, Cl. 148-6.270.

Gruninger, William: *See*—

Nebelung, Hermann H.; Gruninger, William; and Huber, Robert, 4,654,069, Cl. 65-163.000.

Grunsch, Eckhardt, to ANT Nachrichtentechnik GmbH. Switching regulator. 4,694,240, 9-15-87, Cl. 323-285.000.

Grunst, Heinz, and Kleine, Heinz. Electrical apparatus, particularly apparatus for installation. 4,697,223, 9-29-87, Cl. 361-393.000.

Grunst, Heinz, to Square D Starkstrom GmbH. Actuation attachment for electrical controlling and signalling devices, particularly for emergency circuit breakers. 4,703,141, 10-27-87, Cl. 200-340.000.

Grunwald, John J.; and Spencer, Allen C., to MacDermid, Incorporated. Thermally stabilized photoresist images. 4,701,390, 10-20-87, Cl. 430-325.000.

Grunwald, Peter H. Overhead projector. 4,652,101, 3-24-87, Cl. 353-122.000.

Grunwald, Robert F. Film inspection machine. 4,650,314, 3-17-87, Cl. 355-40.000.

Grunwald, Werner; and Schmid, Kurt, to Robert Bosch GmbH. Spark plug for an otto-type internal combustion engine. 4,692,657, 9-8-87, Cl. 313-130.000.

Grunwell, Harry, to Tri-Star Data. Fastening device. 4,704,058, 11-3-87, Cl. 411-134.000.

Grunzweig & Hartmann und Glasfaser AG: *See*—

Bengl, Dieter; and Horres, Johannes, 4,698,085, Cl. 65-16.000.

Fachat, Gaston; Sistermann, Klaus; and Ungerer, Heinz-Jurgen, 4,698,086, Cl. 65-16.000.

Gruodis, Algirdas J.: *See*—

Chang, Yi-Hua E.; Gruodis, Algirdas J.; Muhlfeld, Hans P., Jr.; Rodriguez, Charles W.; and Shulman, Mark L., 4,639,919, Cl. 371-27.000.

Grupe, Renate: *See*—

Schewe, Tankred; Strumpf, Thomas; Rapoport, Samuel M.; Zanke, Dieter; Slapke, Jurgen; Kuhn, Hartmut; Lyr, Horst; and Grupe, Renate, 4,670,469, Cl. 514-575.000.

Grupido, Nicola J.: *See*—

Wood, James L.; Grupido, Nicola J.; Hart, Keith L.; and Keen, John E., 4,675,889, Cl. 378-84.000.

Grupp, Gunther: *See*—

Braitinger, Helmut; and Grupp, Gunther, 4,648,003, Cl. 361-31.000.

Gruppenbacher, Klaus: *See*—

Menigat, Roland; and Gruppenbacher, Klaus, 4,637,171, Cl. 51-281.00R.

Menigat, Roland; and Gruppenbacher, Klaus, 4,688,355, Cl. 51-169.000.

Gruppo Lepetit S.p.A.: *See*—

Malabarba, Adriano; Strazzolini, Paolo; Borghi, Angelo; Cavalleri, Bruno; and Coronelli, Carolina, 4,645,827, Cl. 530-322.000.

Malabarba, Adriano; Strazzolini, Paolo; Borghi, Angelo; Cavalleri, Bruno; and Coronelli, Carolina, 4,650,855, Cl. 530-322.000.

Malabarba, Adriano; Magni, Ambrogio; Strazzolini, Paolo; Cavalleri, Bruno; and Trani, Aldo, 4,661,470, Cl. 514-9.000.

Malabarba, Adriano; and Cavalleri, Bruno, 4,684,644, Cl. 514-210.000.

Malabarba, Adriano; and Cavalleri, Bruno, 4,698,418, Cl. 530-317.000.
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Pirali, Giorgio; Grandi, Maria; Pagani, Hermes; Paternoster, Manuela; Tamoni, Giorgio; and Cassani, Giovanni, 4,692,333, Cl. 424-122.000.
Toja, Emilio, 4,716,159, Cl. 514-210.000.

Grusha, John, to Combustion Engineering, Inc. Split nozzle tip for pulverized coal burner. 4,634,054, 1-6-87, Cl. 239-423.000.

Grushkin, Bernard, to Xerox Corporation. Single component red developer compositions. 4,681,829, 7-21-87, Cl. 430-109.000.

Grusin, Gerald M., to Dart Industries, Inc. Stackable storage container. 4,700,842, 10-20-87, Cl. 206-508.000.

Gruske, Werner. System for the organized storage of a plurality of record carriers. 4,645,074, 2-24-87, Cl. 206-309.000.

Gruss, Alder R.; and Shapiro, Theodore A., to United Technologies Corporation. Method of abrasive cleaning and spray coating. 4,634,603, 1-6-87, Cl. 427-96.000.

Gruss, Alder R. Apparatus for converting rotary motion to translatory motion. 4,685,345, 8-11-87, Cl. 74-424.80C.

Grussel, Klaus; and Neuer, Andreas, to VEB Kombinat Textima. Cam system for knitting machines. 4,693,093, 9-15-87, Cl. 66-75.100.

Grussing, Theodore: *See—*
Axelgaard, Jens; and Grussing, Theodore, 4,708,149, Cl. 128-798.000.

Grutesen, Lothar H. M.: *See—*
Paetzel, Herbert K.; Lindackers, Rudolf; and Grutesen, Lothar H. M., 4,671,321, Cl. 137-625.300.

Grutte, Friedrich-Karl; Petzold, Heinrich; Walter, Ulrich; Eogs, Gunhild; Domeratzky, Joachim; Gartner, Helmut; Schulze, Jurgen; Zunft, Hans-Joachim; Pulz, Otto; Luft, Christa; Muller, Walheide; Wolk, Petra; Dahlke, Hannelore; and Volkmer, Margret, to Institut fur Getreideverarbeitung im VEB Kombinat Nahrungsmittel und Kaffee. Procedure for the production of a granulated infant milk food product. 4,692,340, 9-8-87, Cl. 426-72.000.

Grutzmann, Rudi: *See—*
Niemers, Ekkehard; Grutzmann, Rudi; Mardin, Mithat; Busse, Wolf-Dieter; and Meyer, Horst, 4,636,497, Cl. 514-215.000.

Grutzner, Hans, to K. Bratschi, Silent Gliss. Tension fixture for a curtain. 4,715,583, 12-29-87, Cl. 254-283.000.

Gruver, Gary A.; and Kunz, Harold R., to United Technologies Corporation. Method of making circulating electrolyte electrochemical cell having gas depolarized cathode with hydrophobic barrier layer. 4,636,274, 1-13-87, Cl. 156-279.000.

Gruzinsky Politekhnichesky Institute: *See—*
Asatiani, Georgy N.; Pikus, Evgeny A.; Kutelia, Elgudzha R.; Tsivtsivadze, David M.; Mudzhiri, Yason N.; and Dzhalabadze, Nikolai V., 4,695,360, Cl. 204-404.000.

Gruzman, Boris; and Nilsen, Carl-Otto, to International Business Machines Corporation. Laser cutting of composite materials. 4,639,572, 1-27-87, Cl. 219-121.0LG.

Grybos, Ryszard: *See—*
Archer, Ronald D.; Hardiman, Christopher J.; Grybos, Ryszard; and Chien, James C. W., 4,693,957, Cl. 430-269.000.

Grychtol, Klaus, to BASF Aktiengesellschaft. Asymmetric 1:2 chrome complex dye of a phenylazosulphonaphtholamine and a naphtholazosulphonaphthol. 4,663,441, 5-5-87, Cl. 534-696.000.

Gryczka, Alfred J.: *See—*
Gonzalez, Carlos F.; and Gryczka, Alfred J., 4,716,115, Cl. 435-172.300.

Gryglas, Stephen: *See—*
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Grynkiewicz, Grzegorz: *See—*
Tsien, Roger Y.; Grynkiewicz, Grzegorz; and Minta, Akwasi, 4,689,432, Cl. 562-435.000.

Gryp, Dennis: *See—*
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Grys, Rodger J.: *See—*
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Gryson, Liliane Germaine: *See—*
Drzemala, Jean S., deceased, 4,665,676, Cl. 52-656.000.

Grzanna, Ortwin; Koesfeld, Manfred; Weber, Rolf-Udo; Steuer, Aloysius; Romswinkel, Horst; Fremgen, Dieter; and Kastrop, Dieter, to Walter Rose GmbH & Co. KG. Cable sleeve with a device cross-shaped in cross-section for support of cable ends entering the cable sleeves. 4,693,767, 9-15-87, Cl. 156-49.000.

Grzanowski, Edmund S., Jr.; and Glengary, Philip J. Automatic light signalling system. 4,642,477, 2-10-87, Cl. 307-113.000.

Grzelak, Dorota: *See—*
Kosinska, Wanda; Grzelak, Dorota; Penczek, Irena; and Bialy, Jan, 4,687,799, Cl. 524-100.000.

Grzesiak, Garry M.: *See—*
Anderson, Fredric E.; Grzesiak, Garry M.; and Rosenberg, Gary J., 4,662,532, Cl. 220-7.000.

Grzeskowiak, Nicholas E.; and Philip, James B., Jr., to Minnesota Mining and Manufacturing Company. Photographic elements sensitive to near infrared. 4,711,838, 12-8-87, Cl. 430-568.000.

Grzina, Anthony, to Warman International Limited. Centrifugal pump impeller configured to limit fluid recirculation. 4,664,592, 5-12-87, Cl. 415-98.000.

Grzyb, Joseph A.: *See—*
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Grzych, Leo J. Fire nozzle assembly. 4,700,894, 10-20-87, C 239-555.000.

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Gschwend, Hans: *See—*
Matt, Lukas; Mark, Fritz; and Gschwend, Hans, 4,640,452, C 227-131.000.

Gschwend, Heinz W.: *See—*
Roloff, Achim; and Gschwend, Heinz W., 4,697,016, C 544-344.000.

Gschwender, Alois, to Flux-Gerate Gesellschaft mit beschrank Haftung. Pump, especially drum or immersion pump. 4,669,95 6-2-87, Cl. 415-169.00R.

GSE Electronic Systems, Inc.: *See—*
Roggendorf, Peter, 4,703,311, Cl. 340-347.0DD.

GSE, Inc.: *See—*
Lehoczky, Ken, 4,715,211, Cl. 73-1.00C.

Gsell, Norbert: *See—*
Girard, Joel; and Gsell, Norbert, 4,667,495, Cl. 70-398.000.

Gsell, Thomas C.: *See—*
Degen, Peter J.; and Gsell, Thomas C., 4,664,683, Cl. 55-387.00
Degen, Peter J.; and Gsell, Thomas C., 4,665,050, Cl. 502-402.00
Degen, Peter J.; Joffee, Irving B.; and Gsell, Thomas C., 4,702,34 Cl. 210-638.000.
Degen, Peter J.; Joffee, Irving B.; and Gsell, Thomas C., 4,707,26 Cl. 210-638.000.
Pall, David B.; Degen, Peter J.; Gsell, Thomas C.; and Yanak Eleni C., 4,702,947, Cl. 428-36.000.

GSK Forschungszentrum Geesthacht GmbH: *See—*
Hilgendorff, Walter; Wenzlaff, Axel; Boddeker, Karl; Kahn, Ge hard; and Luhrs, Gunter, 4,650,574, Cl. 210-180.000.

GSP Metals & Chemicals Corporation: *See—*
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GT-Devices: *See—*
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Gte Communication Systems: *See—*
Black, James B., 4,706,277, Cl. 379-242.000.
Black, James B., 4,706,278, Cl. 379-242.000.
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GTE Communication Systems Corporation: *See—*
Abrant, Robert J.; Martys, Michael D.; and Tarleton, George K 4,703,421, Cl. 364-200.000.
Abrant, Robert J.; Martys, Michael D.; and Tarleton, George K 4,703,452, Cl. 364-900.000.
Belanger, Thomas D., Jr., 4,638,937, Cl. 228-5.500.
Bhadriraju, Nataraj, 4,698,749, Cl. 364-200.000.
Black, James B., 4,685,103, Cl. 370-58.000.
Black, James B., 4,706,276, Cl. 379-242.000.
Black, James B., 4,706,279, Cl. 379-279.000.
Blackburn, Tom L., 4,642,426, Cl. 370-13.100.
Blackburn, Tom L., 4,658,395, Cl. 370-13.000.
Boeckmann, Eduard F. B., 4,634,959, Cl. 323-313.000.
Boeckmann, Eduard F. B., 4,648,109, Cl. 379-376.000.
Bray, Bernard D., 4,692,696, Cl. 324-158.00R.
Bray, Bernard D., 4,692,697, Cl. 324-158.00R.
Burlingame, Christopher M.; and Perry, Thomas J., 4,677,436, C 340-825.790.
Burns, Robert V., 4,674,117, Cl. 379-377.000.
Burns, Robert V., 4,677,667, Cl. 379-398.000.
Burns, Robert V., 4,685,130, Cl. 379-413.000.
Conforti, Joseph A., 4,672,603, Cl. 370-58.000.
Conforti, Joseph A., 4,674,036, Cl. 364-200.000.
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Crabbe, Edwin P., Jr., 4,637,011, Cl. 370-24.000.
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Crabbe, Edwin P., Jr., 4,692,897, Cl. 364-900.000.
Garner, Robin E., 4,648,007, Cl. 361-384.000.
Koppensteiner, James V.; and Kubik, Charles K., 4,690,356, C 248-6[illegible].100.
Lembke, Robert W.; and Wiebeld, Howard J., 4,645,880, C 379-191.000.
Mills, Jeffrey P.; and Macrander, Max S., 4,698,771, C 364-768.000.
Mills, Jeffrey P.; and Macrander, Max S., 4,716,538, C 364-754.000.
Mills, Jeffrey P.; and Macrander, Max S., 4,716,539, C 364-754.000.
Mohammed, Juzer, 4,654,248, Cl. 428-137.000.
Neese, Wayne E.; and Kubik, Charles K., 4,657,423, Cl. 403-21.00
Notohamiprodjo, Hubertus S., 4,658,201, Cl. 323-224.000.
Padgett, Richard A., 4,677,610, Cl. 370-62.000.
Pommer, Karl E., II, 4,634,814, Cl. 379-377.000.
Pommer, Karl E., II, 4,647,787, Cl. 379-413.000.
Rahimzad, Antonio, 4,637,019, Cl. 371-16.000.
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Ravindhran, Kothandaraman S.; and Kulkarni, Narayan M., 4,683,641, Cl. 437-41.000.

Reimer, William A., 4,641,224, Cl. 361-424.000.

Saluski, Robert A., 4,677,580, Cl. 364-569.000.

Saluski, Robert A., 4,713,791, Cl. 364-900.000.

Soderlund, Ernest E., 4,684,884, Cl. 324-73.00R.

Stahl, Douglas C., 4,648,019, Cl. 363-43.000.

Thomson, Robert G., 4,683,351, Cl. 379-398.000.

Thomson, Robert G., 4,700,144, Cl. 330-257.000.

Voorhies, Kenny R., 4,647,723, Cl. 379-381.000.

Wadsworth, David L., 4,673,237, Cl. 439-607.000.

Wollet, William M., 4,660,706, Cl. 194-351.000.

E Communication Systems, Inc.: *See—*

Boeckmann, Eduard F. B., 4,672,664, Cl. 379-395.000.

Boeckmann, Eduard F. B., 4,675,902, Cl. 379-394.000.

Boeckmann, Eduard F. B., 4,680,783, Cl. 379-6.000.

E Government Systems Corporation: *See—*

Barry, Joseph, Jr.; Lewis, Jerry; Harris, Peter B.; and McHugh, William T., 4,689,108, Cl. 156-499.000.

Batson, David C.; and Goebel, Franz, 4,684,587, Cl. 429-115.000.

Dave, Timothy A.; and Guch, Steve, Jr., 4,682,340, Cl. 372-108.000.

Goebel, Franz; Harris, Peter B.; Boyle, Gerard H.; and Freeman, Roger K., 4,672,011, Cl. 429-158.000.

Goebel, Franz; and Batson, David C., 4,684,588, Cl. 429-115.000.

Harris, Peter B.; Goebel, Franz; Boyle, Gerard H.; and McHugh, William T., 4,668,592, Cl. 429-116.000.

Haskins, Timothy B.; Goebel, Franz; Batson, David C.; and Zuffante, Charles R., 4,684,586, Cl. 429-115.000.

Keller, Ron F., 4,682,413, Cl. 29-825.000.

Kue, Samuel C., 4,673,948, Cl. 343-792.500.

MacDonald, Donald C., 4,713,523, Cl. 219-385.000.

Magee, Mark R.; and Saffran, Richard E., 4,661,936, Cl. 367-94.000.

O'Connor, Michael; Jackson, Randall L.; and Marple, David P., 4,635,217, Cl. 364-574.000.

O'Connor, Michael; Jackson, Randall L.; and Marple, David P., 4,646,254, Cl. 364-574.000.

Rienzo, Francis B., 4,687,243, Cl. 294-86.400.

Rosser, William D.; and Hochman, Howard, 4,652,886, Cl. 343-756.000.

Rowe, Don H., 4,658,252, Cl. 340-825.310.

E Laboratories Incorporated: *See—*

Amstutz, Stanford R.; Eliscu, Mark; and Rao, Pamidimukkala M. V., 4,644,529, Cl. 370-60.000.

Amstutz, Stanford R.; Eliscu, Mark; and Haselton, E. Fletcher, 4,698,799, Cl. 370-58.000.

Amstutz, Stanford R.; and Haselton, E. Fletcher, 4,707,825, Cl. 370-60.000.

Amstutz, Stanford R.; Eliscu, Mark; Lenart, Joseph M.; and Haselton, E. Fletcher, 4,710,916, Cl. 370-58.000.

Baird, Donald H.; and Haugsjaa, Paul O., 4,654,542, Cl. 307-227.000.

Baird, Donald H.; and McDonough, Martin S., deceased, 4,675,092, Cl. 204-192.260.

Baldoni, J. Gary, II; and D'Angelo, Charles, 4,686,156, Cl. 428-698.000.

Baldoni, J. Gary, II; Buljan, Sergej-Tomislav; and Sarin, Vinod K., 4,710,425, Cl. 428-328.000.

Bandyopadhyay, Gautam; and French, Kenneth W., 4,704,242, Cl. 264-234.000.

Bandyopadhyay, Gautam; French, Kenneth W.; Bowen, Leslie J.; and Neil, Jeffrey T., 4,708,838, Cl. 264-63.000.

Barry, Vincent J.; Boucher-Puputti, Brenda A.; Fitzgerald, Thomas W., and Bawolek, Edward J., 4,659,427, Cl. 156-643.000.

Bencuya, Izak, 4,651,407, Cl. 29-571.000.

Bencuya, Izak; and Cogan, Adrian I., 4,692,780, Cl. 357-22.000.

Blank, Hans G.; and Fox, Jeffrey R., 4,638,246, Cl. 324-73.00R.

Bowers, Mark L.; Druy, Mark A.; Durfor, Charles N.; Smith, H. Gilbert; Tripathy, Sukant K.; and Yenser, Barbara A., 4,704,193, Cl. 204-1.00T.

Budinger, A. Bowman; and Lapatovich, Walter P., 4,710,679, Cl. 315-58.000.

Buhrer, Carl F., 4,634,239, Cl. 350-486.000.

Buhrer, Carl F., 4,671,613, Cl. 350-174.000.

Buhrer, Carl F., 4,678,287, Cl. 350-404.000.

Buhrer, Carl F.; and Feuersanger, Alfred E., 4,691,141, C. 313-565.000.

Bulat, Emel S.; Ditchek, Brian M.; and Butler, Scott J., 4,713,358, Cl. 437-65.000.

Buljan, Sergei-Tomislav V.; Lingertat, Helmut; Baldoni, J. Gary; and Sarin, Vinod K., 4,698,266, Cl. 428-457.000.

Buljan, Sergei-Tomislav V.; Lingertat, Helmut; Baldoni, J. Gary, II; and Sarin, Vinod K., 4,708,037, Cl. 82-1.00C.

Buljan, Sergej-Tomislav, 4,650,498, Cl. 51-309.000.

Buljan, Sergej-Tomislav; and Baldoni, J. Gary, 4,696,352, Cl. 175-57.000.

Butler, Scott J.; and Regan, Robert J., 4,647,867, Cl. 330-269.000.

Butler, Scott J.; Smith, Robert K.; and Abdollahian, Mehdy, 4,712,046, Cl. 315-248.000.

Byszewski, Wojciech W.; Fallier, Charles N., Jr.; and Lester, James N., 4,713,587, Cl. 315-289.000.

Carlsen, W. John; and Melman, Paul, 4,685,773, Cl. 350-401.000.

Chen, Wen T., 4,703,281, Cl. 328-28.000.

Cooperman, Michael, and Sieber, Richard W., 4,638,473, Cl. 370-27.000.

Cooperman, Michael; Gray, Donald J.; Sieber, Richard W.; and Moolenbeek, Rob, 4,656,621, Cl. 370-59.000.

Druy, Mark A.; and Tripathy, Sukant K., 4,644,037, Cl. 525-390.000.

Druy, Mark A.; and Tripathy, Sukant K., 4,657,985, Cl. 525-390.000.

Druy, Mark A.; Tripathy, Sukant K.; and Rubner, Michael F., 4,707,527, Cl. 525-417.000.

Dwyer, David J., 4,669,418, Cl. 118-664.000.

Eichen, Elliot; Melman, Paul; and Cook, Kenneth, 4,714,346, Cl. 356-349.000.

Eliscu, Mark; Amstutz, Stanford R.; and Rao, Pamidimukkala M. V., 4,646,294, Cl. 370-94.000.

Elman, Boris S.; Sandman, Daniel J.; Tripathy, Sukant K.; and Thakur, Mrinal K., 4,647,403, Cl. 252-512.000.

Fallier, Charles N., Jr.; and Lester, James N., 4,680,509, Cl. 315-290.000.

Folweiler, Robert C., 4,652,438, Cl. 423-489.000.

Haselton, E. Fletcher; Amstutz, Stanford R.; and Lenart, Joseph M., 4,698,803, Cl. 370-60.000.

Haselton, E. Fletcher; and Amstutz, Stanford R., 4,698,841, Cl. 379-269.000.

Haselton, E. Fletcher; Amstutz, Stanford A.; and Lenart, Joseph M., 4,703,478, Cl. 370-94.000.

Hsing, To R., 4,648,089, Cl. 370-62.000.

Hsing, To R., 4,658,398, Cl. 370-62.000.

Hsu, Shih C.; and Raman, Ramas V., 4,678,720, Cl. 428-606.000.

Klinedinst, Keith A.; and Gary, Richard A., 4,684,583, Cl. 429-48.000.

Lanzisera, Vincent A.; Scalisi, Robert A.; and Oberhauser, Peter, 4,650,276, Cl. 350-96.200.

Lapatovich, Walter P.; and Gibbs, George R., 4,636,692, Cl. 315-248.000.

Lapatovich, Walter P.; Gibbs, George R.; and Proud, Joseph M., 4,647,821, Cl. 315-248.000.

Lapatovich, Walter P.; Keeffe, William M.; Liebermann, Richard W.; and Maya, Jakob, 4,672,267, Cl. 313-571.000.

Laut, Marvin, 4,700,274, Cl. 361-393.000.

Lee, Kang I.; and Jopson, Harriet, 4,677,048, Cl. 430-311.000.

Lee, Kang I.; and Jopson, Harriet, 4,705,645, Cl. 252-500.000.

Liu, Jia-ming; and Chen, Ying C., 4,689,793, Cl. 372-8.000.

McCollum, Bill C.; Kenyon, Peter T.; and Andrews, Leonard J., 4,648,094, Cl. 372-41.000.

Melman, Paul; and Carlsen, W. John, 4,668,045, Cl. 350-96.200.

Meslener, George J.; and Baum, Peter N., 4,647,792, Cl. 307-270.000.

Meslner, George J.; and Baum, Peter N., 4,647,800, Cl. 307-455.000.

Neil, Jeffrey T., 4,696,778, Cl. 264-65.000.

Olshansky, Robert, 4,679,199, Cl. 372-44.000.

Olshansky, Robert, 4,689,797, Cl. 372-45.000.

Onorato, Paulette I. K.; and Su, Sophia R., 4,680,049, Cl. 65-18.100.

Peters, Thomas E.; and Pappalardo, Romano G., 4,647,399, Cl. 252-301.40P.

Poppert, Paul E.; and Tabasky, Marvin J., 4,693,783, Cl. 156-644.000.

Rubner, Michael; and Sichel, Enid K., 4,708,019, Cl. 73-760.000.

Sandman, Daniel J.; Elman, Boris S.; and Velazquez, Christopher S., 4,665,133, Cl. 525-326.700.

Sandman, Daniel J.; and Elman, Boris S., 4,681,920, Cl. 525-328.100.

Sandman, Daniel J.; Elman, Boris S.; and Velazquez, Christopher S., 4,699,952, Cl. 525-326.700.

Sandman, Daniel J.; Elman, Boris S.; and Velazquez, Christopher S., 4,699,953, Cl. 525-356.000.

Sandman, Daniel J.; Elman, Boris S.; and Velazquez, Christopher S., 4,699,954, Cl. 525-374.000.

Sarin, Vinod K.; and Hintermann, Hans E., 4,701,384, Cl. 428-688.000.

Sarin, Vinod K.; and Hintermann, Hans E., 4,702,970, Cl. 428-688.000.

Seymour, Robert J.; Liu, Jia-ming; and Chen, Ying C., 4,685,108, Cl. 372-19.000.

Shastry, Shambhu K., 4,699,688, Cl. 156-606.000.

Sigai, A. Gary; and Flaherty, John M., 4,670,688, Cl. 313-489.000.

Sigai, A. Gary, 4,710,674, Cl. 313-489.000.

Su, Chin B.; Lanzisera, Vincent A.; and Freeman, Richard L., 4,706,253, Cl. 372-44.000.

Tang, Douglas D., 4,686,497, Cl. 333-253.000.

Thakur, Mrinal K.; Tripathy, Sukant K.; and Sandman, Daniel J., 4,684,434, Cl. 156-622.000.

Thakur, Mrinal K.; Tripathy, Sukant K.; and Sandman, Daniel J., 4,698,121, Cl. 156-622.000.

Tzou, Kou-Hu, 4,698,689, Cl. 358-260.000.

Wilson, James L.; and Folweiler, Robert C., 4,636,239, Cl. 65-109.000.

Winful, Herbert G., 4,687,286, Cl. 350-96.190.

GTE Products Corporation: *See—*

Abdalla, Mohamed I.; and Miller, M. Robert, 4,670,097, Cl. 156-659.100.

Audesse, Emery G., 4,656,396, Cl. 315-73.000.

Barnhart, Robert V., 4,646,127, Cl. 357-70.000.

Bergin, John A.; and English, George J., 4,660,128, Cl. 362-61.000.

Bergin, John A.; and English, George J., 4,707,767, Cl. 362-61.000.

Blaisdell, Ronald G.; and Gagnon, Peter R., 4,647,809, Cl. 313-25.000.

Bonazoli, Robert P., 4,659,965, Cl. 315-60.000.

Bouchard, Andre C.; Thibault, Paul A.; and Lagushenko, Radomir L., 4,678,520, Cl. 148-6.350.
Bouchard, Andre C.; Grossman, Mark; and George, William, 4,689,031, Cl. 445-26.000.
Bouchard, Andre C.; and Thibault, Paul A., 4,698,040, Cl. 445-26.000.
Boudreau, Robert A., 4,715,940, Cl. 204-192.100.
Brower, Boyd G.; and Shaffer, John W., 4,664,622, Cl. 431-360.000.
Brower, Boyd G., 4,676,738, Cl. 431-359.000.
Brower, Boyd G., 4,690,637, Cl. 431-359.000.
Brown, David R.; Frost, Charles E., Jr.; and White, Kenneth A., 4,713,104, Cl. 65-18.100.
Byszewski, Wojciech W.; Fallier, Charles N., Jr.; and Lester, James N., 4,713,587, Cl. 315-289.000.
Carbone, Douglas C.; and Dennis, Philip J., 4,636,766, Cl. 337-368.000.
Carbone, Douglas C., 4,663,606, Cl. 337-94.000.
Cheney, Richard F.; and Pierce, Richard H., 4,687,510, Cl. 75-0.50B.
Chenot, Charles F.; Gray, Leslie F.; and Krebs, Michael A., 4,684,539, Cl. 427-64.000.
Chenot, Charles F.; Taylor, Robert E., deceased; Chiola, Vincent, executrix; and Walter, Wolfgang, 4,698,548, Cl. 313-487.000.
Cheresnowsky, Michael J.; Brunelli, Timothy A.; and Munn, Robin W., 4,643,884, Cl. 423-53.000.
Cheresnowsky, Michael J.; Brunelli, Timothy A.; and Kim, Tai K., 4,702,895, Cl. 423-54.000.
Citino, Richard J.; Bessone, Carlo S.; and Roche, William J., 4,661,745, Cl. 315-106.000.
Coad, Brian C., 4,690,711, Cl. 75-244.000.
DeNuccio, Ron J.; Kim, Han J.; and Leung, Chi H., 4,694,558, Cl. 29-527.200.
de Vos, Hendrik A. J.; and Labouliere, Elzear R., 4,638,414, Cl. 362-370.000.
de Vos, Hendrik A. J.; and Labouliere, Elzear R., 4,642,742, Cl. 362-375.000.
Dobbs, Robert J.; Thomas, David E.; and Wittmer, Dale E., 4,650,592, Cl. 252-12.200.
Dobbs, Robert J.; and Tarry, Christopher A., 4,667,867, Cl. 228-44.700.
Dobbs, Robert J.; and Alexander, Shuford M., Jr., 4,690,693, Cl. 51-307.000.
Edmiston, Charles G., 4,690,791, Cl. 264-122.000.
English, George J.; and Chakrabarti, Kirti B., 4,642,514, Cl. 313-111.000.
English, George J.; Gagnon, Peter R.; and Leadvaro, Stephen J., 4,668,204, Cl. 445-26.000.
Fallier, Charles N., Jr.; and Lester, James N., 4,680,509, Cl. 315-290.000.
Faria, Sixdeniel, 4,643,961, Cl. 430-136.000.
Faria, Sixdeniel; and Karam, Ronald E., 4,684,595, Cl. 430-94.000.
Flaherty, John M., 4,698,239, Cl. 427-67.000.
Gagnon, Peter R.; Griffin, Robert M.; and Kimball, Stephen F., 4,687,963, Cl. 313-17.000.
Gates, Paul E., 4,673,840, Cl. 313-25.000.
Gilder, Thomas G., Jr.; and O'Dean, Raymond D., 4,653,174, Cl. 29-574.000.
Gilder, Thomas G., Jr.; and O'Dean, Raymond D., 4,663,650, Cl. 357-70.000.
Gilder, Thomas G., Jr.; and O'Dean, Raymond D., 4,663,651, Cl. 357-70.000.
Grossman, Mark W.; and George, William A., 4,661,078, Cl. 445-9.000.
Grossman, Mark W.; and George, William A., 4,678,550, Cl. 204-105.00R.
Grossman, Mark W.; George, William A.; and Maya, Jakob, 4,698,547, Cl. 313-485.000.
Grossman, Mark W., 4,713,547, Cl. 250-373.000.
Haraden, Thomas, 4,654,557, Cl. 313-318.000.
Haraden, Thomas, 4,660,906, Cl. 339-2.00L.
Horsch, Wilfried, 4,640,373, Cl. 175-272.000.
Houck, David L.; Port, David J.; and Lee, Jen S. 4,716,019, Cl. 419-17.000.
Hough, Harold L.; and Bonazoli, Robert P., 4,649,320, Cl. 315-100.000.
Hsieh, Martin Y., 4,642,299, Cl. 501-97.000.
Hsieh, Martin Y., 4,654,315, Cl. 501-98.000.
Hsieh, Martin Y.; and Mizuhara, Howard, 4,708,943, Cl. 501-98.000.
Johnson, Pierce, Jr., 4,683,397, Cl. 313-344.000.
Johnson, Pierce, Jr., 4,686,412, Cl. 313-344.000.
Johnson, Richard E.; Johnson, Robert R.; and Cribbs, Doyle E., 4,657,336, Cl. 339-258.00R.
Keeffe, William M.; Gungle, W. Calvin; Rothwell, Harold L., Jr.; and Krasko, Zeya K., 4,636,687, Cl. 313-620.000.
Keeffe, William M.; and Krasko, Zeya K., 4,709,184, Cl. 313-638.000.
Kemp, Preston B., Jr.; Johnson, Walter A.; and Steigelman, James Q., 4,705,560, Cl. 75-0.50B.
Kemp, Preston B., Jr.; and Johnson, Walter A., 4,711,660, Cl. 75-0.50B.
Kemp, Preston B., Jr.; and Johnson, Walter A., 4,711,661, Cl. 75-0.50B.
Kimmel, Edward R.; Shaffer, Mary E.; Pinkowski, Thomas R.; and Harris, Geoffrey L., 4,664,899, Cl. 423-440.000.
Kling, Michael R.; and Shaffer, John W., 4,646,049, Cl. 337-27.000.
Kling, Michael R.; and Audesse, Emery G., 4,646,050, C 337-27.000.
Kohnken, Kent H., 4,688,629, Cl. 165-82.000.
Kopatz, Nelson E.; Pruyne, Lori S.; and Shaw, Howard H. 4,670,047, Cl. 75-0.50B.
Kopatz, Nelson E.; and Pruyne, Lori S., 4,715,878, Cl. 65-21.10
Ladd, Judith A.; and Vanderpool, Clarence D., 4,668,483, C 423-53.000.
Ladd, Judith A.; and Vanderpool, Clarence D., 4,684,401, C 75-0.5BA.
Landry, Richard E.; and Reed, Joel G., 4,674,568, Cl. 165-166.00
Landry, Richard E.; and Reed, Joel G., 4,679,623, Cl. 165-166.00
Lapatovich, Walter P.; Keeffe, William M.; Liebermann, Richard W.; and Maya, Jakob, 4,672,267, Cl. 313-571.000.
Lekebusch, Ronald C.; O'Neil, John T., Jr.; and Muzeroll, Martin E., 4,687,453, Cl. 445-4.000.
Leo, Vincent B.; Cyll, Kenneth M.; and Ide, Mason G., 4,713,524 Cl. 219-307.000.
Lester, James N., 4,678,968, Cl. 315-290.000.
Leung, Chi H., 4,689,196, Cl. 419-11.000.
Levin, Robert E.; and English, George J., 4,646,207, Cl. 362-80.00
Levin, Robert E.; and English, George J., 4,646,215, C 362-296.000.
Lima, Joseph V.; and Shea, Richard J., 4,648,850, Cl. 445-22.00
Long, Robert A., 4,643,363, Cl. 241-20.000.
Ludwig, David C.; and Dobbs, Robert J., 4,659,341, Cl. 51-293.00
Mager, Eric L., 4,678,966, Cl. 313-487.000.
Maya, Jakob, 4,648,951, Cl. 204-157.210.
Melanson, Lionel J.; and Kamal, Nabil, 4,687,904, Cl. 219-271.00
Melanson, Lionel J.; and Watson, Richard C., 4,713,529, C 219-541.000.
Mickelson, Nils P.; and MacFarlane, Jerauld C., 4,694,466, C 379-327.000.
Miller, Michael J., 4,705,559, Cl. 75-0.5AA.
Mizuhara, Howard, 4,643,875, Cl. 420-502.000.
Mizuhara, Howard, 4,661,416, Cl. 428-606.000.
Mizuhara, Howard, 4,667,871, Cl. 228-122.000.
Mizuhara, Howard, 4,678,636, Cl. 420-456.000.
Mizuhara, Howard, 4,679,960, Cl. 403-272.000.
Mizuhara, Howard, 4,684,579, Cl. 428-606.000.
Mizuhara, Howard, 4,690,876, Cl. 428-606.000.
Mizuhara, Howard, 4,711,386, Cl. 228-121.000.
Morris, Merle E.; and Senft, Stephen P., 4,702,717, Cl. 445-27.00
Morris, Merle E.; Rice, Lawrence M.; and Meade, Steven L. 4,710,676, Cl. 313-579.000.
Moskowitz, Philip E.; and Maya, Jakob, 4,692,661, Cl. 313-485.00
Orbanic, Robert S., 4,701,140, Cl. 439-751.000.
Ornstein, Jacob J., 4,698,270, Cl. 428-617.000.
Ornstein, Jacob L.; and Hydock, Michael A., 4,645,120, C 228-190.000.
Ornstein, Jacob L.; and Hydock, Michael A., 4,680,238, C 428-617.000.
Paliwal, Muktesh; and Johnson, Walter A., 4,687,511, Cl. 75-0.50B
Paliwal, Muktesh; Johnson, Walter A.; and Miller, John E. 4,690,796, Cl. 419-12.000.
Parent, Edward D.; Purinton, Charles S.; and Sutter, Charles W. 4,663,120, Cl. 419-10.000.
Patrician, Thomas J.; Sylvester, Vito P.; and Martin, Harry D., III. 4,670,216, Cl. 419-15.000.
Poyner, John C., 4,692,656, Cl. 313-113.000.
Rattray, Kendrick D.; and Plante, Leo J. 4,703,224, C 313-487.000.
Ritsko, Joseph E.; Port, David J.; and Houck, David L., 4,684,40 Cl. 75-0.5AB.
Ritsko, Joseph E.; Houck, David L.; and Acla, Howard L. R. 4,695,439, Cl. 423-263.000.
Ritsko, Joseph E.; and Acla, Howard L., 4,710,368, Cl. 423-344.00
Roche, William J., 4,659,966, Cl. 315-73.000.
Roche, William J., 4,709,187, Cl. 315-74.000.
Rymas, Frank, 4,650,353, Cl. 400-124.000.
Rymas, Frank, 4,671,685, Cl. 400-124.000.
Scheithauer, Richard A.; Vanderpool, Clarence D.; Miller, Michael J.; and Gingerich, Richard G. W., 4,690,710, Cl. 75-0.5AA.
Schoene, Carl M., 4,713,580, Cl. 313-624.000.
Scholz, John A., 4,686,421, Cl. 315-73.000.
Schulze, Harry O.; and Karam, Ronald E., 4,681,807, C 428-403.000.
Schulze, Harry O., 4,684,540, Cl. 427-71.000.
Schulze, Harry O.; and Karam, Ronald E., 4,695,478, C 427-71.000.
Shaffer, John W., 4,659,307, Cl. 431-359.000.
Shaffer, John W., 4,661,058, Cl. 431-359.000.
Shaffer, John W.; and Sindlinger, Ronald E., 4,696,641, C 431-362.000
Shank, Jeffrey B.; Swanson, Steve E.; and Opdahl, Barry J. 4,691,985, Cl. 350-96.180.
Shank, Jeffrey B.; Swanson, Steven E.; and Opdahl, Barry J. 4,711,518, Cl. 350-96.200.
Sigai, A. Gary; and Flaherty, John M., 4,670,688, Cl. 313-489.00
Sindlinger, Ronald E., 4,647,893, Cl. 337-24.000.
Sindlinger, Ronald E., 4,659,308, Cl. 431-362.000.
Taubner, Fred R.; and Roy, Joseph A., 4,639,637, Cl. 313-489.00
Vanderpool, Clarence D., 4,676,965, Cl. 423-344.000.
Wierzbicki, Julian J.; and Chakrabarti, Kirti B., 4,695,930, C 362-293.000.
Wyner, Elliot F.; and Scholz, John A., 4,647,819, Cl. 315-241.00R

- Yale, Ramon L., 4,690,832, Cl. 427-65.000.
- GTE Service Corporation: *See—*
  - Stilwell, Bobby, 4,647,724, Cl. 379-27.000.
- GTE Sprint Communications Corp.: *See—*
  - Chum, Stanley, 4,710,924, Cl. 371-4.000.
  - Chum, Stanley, 4,713,810, Cl. 371-4.000.
  - Chum, Stanley P. K., 4,667,319, Cl. 370-55.000.
  - Domes, David C., 4,652,861, Cl. 340-539.000.
  - Evans, Wallace; and Redman, Gary M., 4,698,641, Cl. 343-882.000.
  - Redman, Gary M., 4,698,640, Cl. 343-882.000.
- GTE Telecommunicazioni, S.p.A.: *See—*
  - Giavarini, Andrea, 4,706,053, Cl. 333-229.000.
  - Merli, Gabriele; and Testi, Termano, 4,698,597, Cl. 328-163.000.
- GTE Telecomunicazioni S.p.A.: *See—*
  - Buoli, Carlo, 4,697,161, Cl. 333-116.000.
- GTE Valenite: *See—*
  - Patterson, John H.; and Bernadic, Thomas J., 4,705,434, Cl. 407-114.000.
- GTE Valeron Corporation: *See—*
  - Bhat, Deepak G.; Shah, Dhirajlal C.; Kyle, John R.; and Woerner, Paul F., 4,640,693, Cl. 51-295.000.
  - Burden, Stephen J., 4,652,276, Cl. 51-308.000.
  - Eichen, Elliot; Melman, Paul; and Cook, Kenneth, 4,714,346, Cl. 356-349.000.
  - Frushour, Robert H., 4,661,180, Cl. 156-8[illegible].
  - Hunt, Carl E., 4,636,118, Cl. 409-136.000.
  - Hunt, Carl E., 4,668,135, Cl. 409-136.000.
  - Juengel, Richard O., 4,658,509, Cl. 33-558.000.
  - Juengel, Richard O., 4,670,989, Cl. 33-558.000.
  - Juengel, Richard O., 4,693,110, Cl. 73-1.00R.
  - Koelewijn, Rob, 4,681,485, Cl. 407-42.000.
  - Lowe, Tony M.; and Bernadic, Thomas J., 4,669,925, Cl. 407-114.000.
  - Noggle, Kenneth G.; and Reiterman, Lee, 4,662,254, Cl. 82-36.00B.
  - Noggle, Kenneth G., 4,708,546, Cl. 409-200.000.
  - Plutschuck, Lawrence; and Hunt, Carl E., 4,708,543, Cl. 408-151.000.
  - Stashko, Daniel R., 4,648,755, Cl. 407-36.000.
- GTech Corporation: *See—*
  - Leonard, George H., 4,659,073, Cl. 271-3.000.
- GTM-Entrepose: *See—*
  - Augoyard, Jean-Pierre, 4,636,110, Cl. 404-100.000.
- GTO Electronics: *See—*
  - Persson, Eric G.; and Veith, Ronald D., 4,639,845, Cl. 363-26.000.
- GTY Industries: *See—*
  - Poppenheimer, Charles B., 4,674,187, Cl. 30-360.000.
- Gu, Alston L., to Garrett Corporation, The. Thrust bearing underspring. 4,668,106, 5-26-87, Cl. 384-105.000.
- Gu, Alston L., to Garrett Corporation, The. Thrust bearing underspring. 4,682,900, 7-28-87, Cl. 384-105.000.
- Gu, Alston L., to Garrett Corporation, The. Foil journal bearing cooling. 4,701,060, 10-20-87, Cl. 384-106.000.
- Gu, Juesheng: *See—*
  - Narang, Subhash C.; Vicari, Richard; and Gu, Juesheng, 4,661,611, Cl. 556-418.000.
- Guadagnino, Gus A. Apparatus for dispensing elongated cylindrical objects such as pencils. 4,706,842, 11-17-87, Cl. 221-14.000.
- Guadagno, Philip A.; and Markus, James R., to Helena Laboratories Corporation. Method for performing an occult blood test. 4,647,541, 3-3-87, Cl. 436-66.000.
- Guadagnolo, Robert N.: *See—*
  - Estrick, Vaughn H.; and Guadagnolo, Robert N., 4,704,737, Cl. 455-226.000.
- Guajardo, Ciro, to Teledyne Industries, Inc. Solid state relay having non overlapping switch closures. 4,647,794, 3-3-87, Cl. 307-311.000.
- Gualandris, Rene: *See—*
  - Delaunay, Marc; Gualandris, Rene; Geller, Richard; Jacquot, Claude; Ludwig, Paul; Mathonnet, Jean-Marc; Rocco, Jean-Claude; Sermet, Pierre; Zadworny, Francois; and Bourg, Francois, 4,638,216, Cl. 315-111.810.
- Gualtieri, Devlin M.; and Lai, Shui T., to Allied Corporation. Multilayer faceted luminescent screens. 4,713,577, 12-15-87, Cl. 313-468.000.
- Gualtieri, Peter J.; and Goulet, Roger T., to Cambridge Filter Corp. Method for leak testing air filters. 4,646,558, 3-3-87, Cl. 73-40.700.
- Guandalini, Leonardo. Device resulting from the combination of a scooter with a bicycle operated by the rider's weight. 4,653,766, 3-31-87, Cl. 280-226.00R.
- Guangorena, Jesus. Positive grip winch. 4,688,765, 8-25-87, Cl. 254-374.000.
- Guangxi, Yue: *See—*
  - Xu-Yi, Zhang; Guangxi, Yue; and Qiayu, Zheng, 4,712,514, Cl. 122-4.00D.
- Guaranty Performance Co., Inc.: *See—*
  - Livingston, Andrew D., 4,696,116, Cl. 34-108.000.
- Guard, Edward J.: *See—*
  - Wright, William T.; and Guard, Edward J., 4,634,089, Cl. 248-311.200.
- Guardian Interlock Systems, Inc.: *See—*
  - Collier, Donald W.; and Fuller, Kip L., 4,697,666, Cl. 180-272.000.
- Guare, James P., Jr.: *See—*
  - Baldwin, John J.; Huff, Joel R.; Vacca, Joseph P.; Young, Steven D.; deSolms, Jane; and Guare, James P., Jr., 4,710,504, Cl. 514-267.000.
  - Huff, Joel R.; Baldwin, John J.; Sakurai, Yojiro; Vacca, Joseph P.; and Guare, James P., Jr., 4,686,226, Cl. 514-285.000.
- Guarini, Antonio, to Digital Electronic Automation, Inc. Active error compensation in a coordinated measuring machine. 4,663,852, 5-12-87, Cl. 33-1.00M.
- Guarino, Nicholas; Onorio, Gabriel; and Ward, Billy W., to Micrion Limited Partnership. Evacuable chamber enclosing. 4,673,101, 6-16-87, Cl. 220-335.000.
- Guarino, Nicholas, to Micrion Limited Partnership. Module positioning apparatus. 4,699,555, 10-13-87, Cl. 414-217.000.
- Guarino, Nicholas, to Micrion Limited Partnership. Mask holding. 4,711,438, 12-8-87, Cl. 269-152.000.
- Guarnierr, C. Richard: *See—*
  - Greanias, Evon C.; Guarnieri, C. Richard; Seeland, John J., Jr.; Verrier, Guy F.; and Donaldson, Robert L., 4,686,332, Cl. 178-19.000.
- Guarnieri, Charles R.: *See—*
  - Cuomo, Jerome J.; and Guarnieri, Charles R., 4,664,769, Cl. 204-192.100.
- Guastadini, Fausto. Pulsating current electromotor without commutator. 4,678,974, 7-7-87, Cl. 318-254.000.
- Guatelli, Jean-Luc: *See—*
  - Aboukrat, Simon; Catoir, Lucien; Guatelli, Jean-Luc; and Sobiepanek, Janusz, 4,703,212, Cl. 310-218.000.
- Guay, Albert, to Guay, Albert. Reusable anchor. 4,696,611, 9-29-87, Cl. 411-103.000.
- Guay, Normand D., to George C. Moore Co. Elastic fabric provided with a looped gripping surface. 4,714,096, 12-22-87, Cl. 139-391.000.
- Guay, Roland H., to United States of America, Navy. Apparatus for aerospace vehicle separation events using a linear shaped charge. 4,649,824, 3-17-87, Cl. 102-307.000.
- Guoash, Peter J. Buoyancy device for collapsible mesh fish basket. 4,703,577, 11-3-87, Cl. 43-7.000.
- Gubbay, Jacob D.; and Hall, Edward J., to United States of America, Navy. Fabrication of metal matrix composite mirror. 4,659,548, 4-21-87, Cl. 419-10.000.
- Gubbels, Wilhelmus C. H.: *See—*
  - Van Zanten, Adrianus T.; Veendrick, Hendrikus J. M.; Pfennings, Leonardus C. M. G.; and Gubbels, Wilhelmus C. H., 4,697,111, Cl. 307-482.000.
- Guch, Steve, Jr.: *See—*
  - Dave, Timothy A.; and Guch, Steve, Jr., 4,682,340, Cl. 372-108.000.
- Guckel, Henry, to Wisconsin Alumni Research Foundation. Velocity saturated strain sensitive semiconductor devices. 4,658,279, 4-14-87, Cl. 357-26.000.
- Guckenberger, Anthony C.: *See—*
  - Hsu, Joseph C.; and Guckenberger, Anthony C., 4,700,531, Cl. 53-412.000.
  - Hsu, Joseph C.; and Guckenberger, Anthony C., 4,704,314, Cl. 428-35.000.
- Guczoghy, Lajos: *See—*
  - Vertesi, Csaba; Molnar, Attila; and Guczoghy, Lajos, 4,710,578, Cl. 558-4.000.
- Gudaitis, Algird M., to GenRad, Inc. Fast-acting comparison circuit. 4,686,391, 8-11-87, Cl. 307-354.000.
- Gudaitis, Donald A.; McCaskey, John P.; and Hostetler, Michael S., to Picker International Inc. High speed data transfer method and apparatus. 4,688,168, 8-18-87, Cl. 364-200.000.
- Gudas, Charles J., to Scholl, Inc. Shoe inlay. 4,677,766, 7-7-87, Cl. 36-43.000.
- Gudath, Ernest A.: *See—*
  - Gruber, James R.; Gudath, Ernest A.; Michalski, Dennis H.; Riddle, Robert R.; and Stana, Regis R., 4,716,026, Cl. 423-167.000.
- Gudbrandsen, Gunnar F.; Skjerven, Perkristian; and Bjerkvoll, Bjorn S., to A/S Raufoss Ammunisjonsfabrikker. Rocket with tracer charge and gunpowder rods. 4,643,098, 2-17-87, Cl. 102-513.000.
- Gudin, Claude: *See—*
  - Adet, Bruno; Gudin, Claude; and Thepenier, Catherine, 4,689,301, Cl. 435-284.000.
- Gudmestad, Ragnar, to ARTOS Engineering Company. Adjustable apparatus for cutting and conveying wire segments of various lengths. 4,672,871, 6-16-87, Cl. 83-151.000.
- Gudmundson, Gunnar G.: *See—*
  - Franchina, Thomas F.; Gudmundson, Gunnar G.; and Reuss, John R., 4,711,565, Cl. 355-39.000.
- Gudymov, Ernest; Fedotov, Vasilij; Semenov, Vladimir; Rodinov, Boris; Berger, Friedrich; Wenzel, Winfried; Peise, Helmut; and Schingnitz, Manfred, to Brennstoffinstitut Freiberg; and Godsudarstvenny Nauchno Tssledovatelsky I Protektny Institut. Gasification of coal dust. 4,707,163, 11-17-87, Cl. 48-73.000.
- Gudymov, Ernest: *See—*
  - Fleischer, Klaus; Gohler, Peter; Mangler, Rolf; Reuther, Christian; Schingnitz, Manfred; Berger, Friedrich; Gudymov, Ernest; Semenov, Vladimir; Fedotov, Vasilij; and Rodionov, Boris, 4,704,971, Cl. 110-264.000.
  - Gohler, Peter; Mangler, Rolf; Schingnitz, Manfred; Seidel, Wolfgang; Berger, Friedrich; Gudymov, Ernest; Semenov, Vladimir; Fedotov, Vasilij; and Gamburg, David, 4,710,202, Cl. 48-73.000.
- Guebels, Pierre-Paul: *See—*
  - Van Simaeys, Francoise C. G.; and Guebels, Pierre-Paul, 4,688,211, Cl. 370-58.000.
- Guedon born Saglier, Isabelle; Barritault, Denis; Courtois, Yves; Arruti, Cristina; and Prunieras, Michel, to Institut National de la Sante et de la Recherche Medicale. Cosmetic compositions containing retinal extracts for increasing epidermal cell growth. 4,670,257, 6-2-87, Cl. 424-95.000.

Gueguen, Claude: *See—*
Torck, Bernard; Amigues, Pierre; Weill, Jerome; Gueguen, Claude; Llinares, Michel; and Bourgognon, Henri, 4,664,675, Cl. 44-60.000.

Guelck, Volker. Horizontal slider closure. 4,656,782, 4-14-87, Cl. 49-404.000.

Guelck, Volker. Cam lock. 4,674,777, 6-23-87, Cl. 292-101.000.

Guelck, Volker, to Illinois Tool Works Inc. Shoe for a closure. 4,683,675, 8-4-87, Cl. 49-181.000.

Gueldenzopf, Thomas D.: *See—*
Schulz, Gerald O.; and Gueldenzopf, Thomas D., 4,654,395, Cl. 526-318.420.

Gueneau, Michel, to Pactole S.A. Process and apparatus for superheating a refrigeration fluid. 4,653,282, 3-31-87, Cl. 62-79.000.

Guenther, Bob D.: *See—*
Gregory, Don A.; and Guenther, Bob D., 4,715,683, Cl. 350-331.00R.

Guenther, Dieter: *See—*
Bender, Albert; and Guenther, Dieter, 4,709,026, Cl. 544-3.000.
Wiedemann, Wolfgang; and Guenther, Dieter, 4,666,812, Cl. 430-78.000.

Guenther, Frederick M.: *See—*
Romans-Hess, Alice Y.; Guenther, Frederick M.; and Ryan, Lenore S., 4,655,759, Cl. 604-385.00R.

Guenther, Hans-Juergen; Golbeck, Ortwin; and Nauck, Joachim, to Erno Raumfahrttechnik GmbH. Satellite station. 4,702,440, 10-27-87, Cl. 244-158.00R.

Guenther, Heinz, deceased: *See—*
Maier, Helmut; Storandt, Ralf; Guenther, Heinz, deceased; Guenther, Renate, legal representative; and Guenther, Sabine, legal representative, 4,640,051, Cl. 49-348.000.

Guenther, Kenneth L.: *See—*
Zemke, Edward H., deceased; Vandersyde, Gary L.; Rabindran, K. George; and Guenther, Kenneth L., 4,697,246, Cl. 364-563.000.

Guenther, Ludwig: *See—*
Grenzendoerfer, Dietmar; Wierzgon, Achim; Mueller, Gerhard; Erth, Dieter; Guenther, Ludwig; and Kuenzel, Rolf, 4,638,647, Cl. 66-84.00A.

Guenther, Renate, legal representative: *See—*
Maier, Helmut; Storandt, Ralf; Guenther, Heinz, deceased; Guenther, Renate, legal representative; and Guenther, Sabine, legal representative, 4,640,051, Cl. 49-348.000.

Guenther, Rolf A.: *See—*
Peters, Stanley T.; Kolek, Robert L.; Guenther, Rolf A.; Anderson, Jeffrey J.; and Marshall, Clarence F., 4,701,231, Cl. 156-172.000.

Guenther, Sabine, legal representative: *See—*
Maier, Helmut; Storandt, Ralf; Guenther, Heinz, deceased; Guenther, Renate, legal representative; and Guenther, Sabine, legal representative, 4,640,051, Cl. 49-348.000.

Guenthner, Russell W.: *See—*
Ryan, Charles P.; and Guenthner, Russell W., 4,707,784, Cl. 364-200.000.

Guerard, Francoise M. J. B.: *See—*
Guillaumon, Jean-Claude; Blet, Louis J. C.; and Guerard, Francoise M. J. B., 4,655,966, Cl. 252-518.000.

Guerard, Norbert, to Champion Spark Plug Europe S.A. Connector for wiper blades. 4,649,591, 3-17-87, Cl. 15-250.320.

Guerard, Norbert; and Beneteau, Christian, to Champion Spark Plug Europe S.A. Driving mechanism for wiper blades. 4,707,641, 11-17-87, Cl. 318-443.000.

Guerard, Norbert: *See—*
Beneteau, Christian; and Guerard, Norbert, 4,704,762, Cl. 15-250.420.

Gueret, Jean-Louis H., to L'Oreal. Eyelash make-up unit. 4,671,689, 6-9-87, Cl. 401-122.000.

Gueret, Jean-Louis H., to "L'Oreal". Rigid make up compact with a flexible inner shell frame. 4,681,127, 7-21-87, Cl. 132-82.00R.

Gueret, Pierre L.: *See—*
Bednorz, Johannes G.; Gueret, Pierre L.; Nievergelt, Hermann E.; Ott, Hanspeter; Pohl, Wolfgang D.; and Widmer, Daniel F., 4,643,627, Cl. 414-217.000.
Graf, Volker; Gueret, Pierre L.; and Mueller, Carl A., 4,647,954, Cl. 357-23.300.
Harder, Christoph S.; Wolf, Hans P.; Baechtold, Werner; Gueret, Pierre L.; and Baratoff, Alexis, 4,675,711, Cl. 357-22.000.

Guerette, Alvin, to Controle BVL LTEE. Dispensing apparatus valve. 4,655,374, 4-7-87, Cl. 222-504.000.

Guerillot, Stephane: *See—*
Dureigne, Bernard; Guerillot, Stephane; and Regnault, Alain, 4,670,792, Cl. 358-280.000.

Guerillot, Yves M. N., to Societe Anonyme de Telecommunications. Method and device for inserting a digital signal in a channel with higher flow rate. 4,709,227, 11-24-87, Cl. 340-347.0DD.

Guerin, Bernard: *See—*
Forterre, Gerard; and Guerin, Bernard, 4,698,604, Cl. 333-24.200.

Guerin, Charles A. Easel. 4,643,384, 2-17-87, Cl. 248-476.000.

Guerin, Christophe, to CII Honeywell Bull (Societe Anonyme). Method for magnetographic printing, and magnetographic printing machine. 4,646,108, 2-24-87, Cl. 346-74.700.

Guerin, Roland: *See—*
Hilaire, Jean-Claude; and Guerin, Roland, 4,694,063, Cl. 528-315.000.

Guerin, Stanislas P., to Thomson-CSF. Moving map display providing various shaded regions per altitude for aircraft navigation. 4,706,199, 11-10-87, Cl. 364-460.000.

Guerin, Thomas R.; and Lester, Theodore V., to Motorola, Inc. Scanning CRT control system. 4,649,325, 3-10-87, Cl. 315-383.000.

Guermandi, Romano: *See—*
Semin, Fikret; Guermandi, Romano; and Cucco, Gian C., 4,641,696, Cl. 152-209.00R.

Guern., Rene : *See—*
Pouit, Christian, and Guern, Rene , 4,661,820, Cl. 342-351.000.

Guernet, Henri: *See—*
Heng, Jean-Paul; Marmonier, Andre ; Ruiz, Ariel; and Guernet, Henri, 4,693,542, Cl. 439-626.000.

Guerra, Fernando G., to Fabricas Lucia, Antonio Betere, S.A. Device for securing slats to the frame of a bedspring. 4,704,751, 11-10-87, Cl. 5-236.00R.

Guerra, John M.; and Plummer, William T., to Polaroid Corporation. Method and apparatus for adjusting CRT geometry. 4,649,324, 3-10-87, Cl. 315-370.000.

Guerra, John M., to Polaroid Corporation. Roughness measuring apparatus. 4,673,818, 6-16-87, Cl. 250-571.000.

Guerra, John M.; and Plummer, William T., to Polaroid Corporation. Optical proximity imaging method and apparatus. 4,681,451, 7-21-87, Cl. 356-373.000.

Guerra, Manuel, Jr.: *See—*
Lassow, Eliot S.; Johnson, Paul R.; Whitaker, Sidney R.; and Guerra, Manuel, Jr., 4,703,806, Cl. 164-518.000.

Guerra, Michael, to Eaton Corporation. Ion implantation chamber purification method and apparatus. 4,703,183, 10-27-87, Cl. 250-492.200.

Guerra, Romeo E. Igniter for gas discharge pipe with a flame detection system. 4,678,430, 7-7-87, Cl. 431-202.000.

Guerra, Romeo E. Apparatus and method for inserting a foot into a boot. 4,708,272, 11-24-87, Cl. 223-113.000.

Guerrero, John O.: *See—*
Ewen, James H.; and Guerrero, John O., 4,667,009, Cl. 528-68.000.

Guerriero, Renato; Tangerini, Ilario; and Vittadini, Italo, to Samim S.p.A. Composite material. 4,676,338, 6-30-87, Cl. 181-294.000.

Guerriero, Renato: *See—*
Baradel, Agostino; Guerriero, Renato; and Veronese, Giuseppe, 4,701,311, Cl. 423-87.000.

Guerriero, Thomas W.: *See—*
Fredericks, Kenneth J.; Guerriero, Thomas W.; Miracle, Gerald H.; and Wiegand, Michael R., 4,712,176, Cl. 364-200.000.

Guerrini, Giampaolo; and Sommacal, Franco, to Ing. C. Olivetti & C. S.p.A. Device for detecting the level of a liquid contained in a tank. 4,702,107, 10-27-87, Cl. 73-319.000.

Guerrini, Giampaolo; and Caligaris Cappio, Emilio, to Ing. C. Olivetti & C., S.p.A. Obturator disc for an optical transducer. 4,716,289, 12-29-87, Cl. 250-231.0SE.

Guerrini, Giampaolo: *See—*
Cappio, Emilio C.; and Guerrini, Giampaolo, 4,661,698, Cl. 250-231.0SE.

Guers, Roger, to S.N.R. Roulements. Roller bearing with contactless transmission of electric signals. 4,688,951, 8-25-87, Cl. 384-446.000.

Guertler, Hanne: *See—*
Skoet, Georg; and Guertler, Hanne, 4,687,742, Cl. 435-234.000.

Guery, Jean-Pierre; and Olifant, Jacques, to La Telemecanique Electrique. Polarized electromagnet with bi or monostable operation. 4,635,016, 1-6-87, Cl. 335-230.000.

Guery, Jean-Pierre; Gashet, Gerald; Olifant, Jacques; and Plumeret, Raymond, to La Telemecanique Electrique. Variable composition switching device realizable by the assembling of modular elements. 4,644,308, 2-17-87, Cl. 335-128.000.

Guery, Jean-Pierre; and Olifant, Jacques, to La Telemecanique Electrique. Polarized electromagnet with symmetrical arrangement. 4,644,311, 2-17-87, Cl. 335-230.000.

Guesdon, Jean-Luc; and Avrameas, Stratis, to Institut Pasteur. Method for detecting and dosing by erythroadsorption a biological substance. 4,668,637, 5-26-87, Cl. 436-504.000.

Guess, Edward L., to Baker Oil Tools, Inc. Sealing system for downhole well valves. 4,674,575, 6-23-87, Cl. 166-332.000.

Guest, Joanathan D.: *See—*
Brandon, Howard R., Jr.; Ball, Dean M.; and Guest, Joanathan D., 4,660,740, Cl. 222-1.000.

Guest, John D. Tube couplings. 4,637,636, 1-20-87, Cl. 285-38.000.

Guest, John D. Tube couplers. 4,645,246, 2-24-87, Cl. 285-323.000.

Guest, John D. Quick release tube coupling. 4,650,529, 3-17-87, Cl. 156-73.100.

Guest, John D. Tube couplings. 4,657,286, 4-14-87, Cl. 285-323.000.

Guest, Philip Q., Jr.: *See—*
Behr, Michael E.; Wozniak, Kenneth P.; Gaubis, Philip A.; Guest, Philip Q., Jr.; Graves, James L.; and Wand, Thomas J., 4,660,671, Cl. 180-142.000.

Guetersloh, Timothy L., to Research Products Corporation. Media support module for paint spray booths and the like. 4,693,048, 9-15-87, Cl. 52 664.000.

Guetersloh, Timothy L., to Research Products Corporation. Humidistat with improved mounting. 4,706,808, 11-17-87, Cl. 206-305.000.

Gueugnon, Catherine; and Bernstein, Pierre, to Cii Honeywell Bull (Societe Anonyme). Magneto-optic recording medium. 4,666,789, 5-19-87, Cl. 428-611.000.

Guevara, Erick: *See—*
Hambleton, Thomas P.; Guevara, Erick; and Rychiger, Peter, 4,680,917, Cl. 53-440.000.

Gueyne, Jean: *See—*
Grinda, Francoise; and Gueyne, Jean, 4,698,222, Cl. 421-195.000.

Guez, Moshe. Method and apparatus for writing information on processed photographic film. 4,651,313, 3-17-87, Cl. 369-14.000.

ezou, Jean-Pierre: *See*—
Balquet, Robert; Baubeau, Robert; Bertrand, Jean-Paul; Guezou, Jean-Pierre; and Carron, Philippe, 4,708,077, Cl. 114-67.00A.

ezou, Jean-Pierre R.: *See*—
Bertrand, Jean-Paul A.; Guezou, Jean-Pierre R.; Balquet, Robert J.; Marcouyoux, Sylvain J. A.; and Jodelet, Francois C. L., 4,646,866, Cl. 180-126.000.

ffee, Larry E.: *See*—
Walker, Lonnie R.; Berryman, Leslie N.; Guffee, Larry E.; Ripley, David E.; and Prucha, David A., 4,715,721, Cl. 366-132.000.

gala, Zbigniew H.: *See*—
Krause, Richard J.; Gugala, Zbigniew H.; and Shah, Madhukant A., 4,683,057, Cl. 210-232.000.

gel, Bernd; Niebel, Harald; Ott, Hubert; Heisele, Horst; Kitzberger, Herbert; and Seybold, Wolfgang, to Mannesmann AG. Making an rmature assembly for matrix print heads. 4,674,179, 6-23-87, Cl. 29-602.00R.

gel, Bernd; Niebel, Harald; and Ott, Hubert, to Mannesmann Aktiengesellschaft. Magnetic circuit for matrix print-head. 4,695,174, 9-22-87, Cl. 400-124.000.

gel, Georg; and Haas, Erich, to Kraftwerk Union Aktiengesellschaft. Test manipulator externally applicable to a pipe. 4,672,852, 6-16-87, Cl. 73-622.000.

gel, Siegfried; Pellkofer, Dieter; and Forner, Siegfried, to Kraftwerk Union Aktiengesellschaft. Welding tongs for connecting two abutting pipe ends by arc welding. 4,698,474, 10-6-87, Cl. 219-60.00A.

ggenheim, Thomas L., to General Electric Company. Method for making tetrahydroxydiphenylsulfide and product obtained therefrom. 4,714,780, 12-22-87, Cl. 564-430.000.

ggenheim, Thomas L.: *See*—
Brunelle, Daniel J.; Guggenheim, Thomas L.; Boden, Eugene P.; Shannon, Thomas G.; and Guiles, Joseph W., 4,696,998, Cl. 528-272.000.

gle, James E.; and Peek, Brian R., to Illinois Tool Works Inc. Adhesive friction weld fastener. 4,636,124, 1-13-87, Cl. 411-82.000.

gle, James E., to Illinois Tool Works Inc. Gas-cushion shock absorber and method of making same. 4,650,044, 3-17-87, Cl. 188-322.210.

ghelmetti, Giorgio; Carossio, Guido; and Gilli, Luigi, to Saint-Gobain Vitrage (Les Miroirs). Cutting device for sheets made of plastic material. 4,713,994, 12-22-87, Cl. 83-71.000.

glielmi, Paul M.; Melanson, Ronald J.; and Kotok, Alan, to Digital Equipment Corporation. Self-timed random access memory chip. 4,712,190, 12-8-87, Cl. 364-900.000.

glielmo, Mario: *See*—
Riolfo, Benedetto; Guglielmo, Mario; and Baronetti, Giovanni, 4,660,078, Cl. 358-133.000.

ghela o, Richard J., Sr., to EMA Company. Net antifouling composition. 4,661,400, 4-28-87, Cl. 428-255.000.

glielmo, Richard J., Sr., to EMA Company. Net antifouling composition. 4,698,097, 10-6-87, Cl. 106-15.050.

uguchkova-Yanchuleva, Pravoslava T.: *See*—
Dyakov, Nikola G.; Guguchkova-Yanchuleva, Pravoslava T.; and Benchev, Dimiter V., 4,710,196, Cl. 623-6.000.

ugumus, Francois, to Ciba-Geigy Corporation. Synergistic mixture of low-molecular and high-molecular polyalkylpiperidines. 4,692,486, 9-8-87, Cl. 524-100.000.

uha, Amitava, to Brush Wellman Inc. Thermomechanical processing of beryllium-copper alloys. 4,657,601, 4-14-87, Cl. 148-12.70C.

uha, Prodyot, to Bonar Langley Alloys Limited. High chromium duplex stainless steel. 4,657,606, 4-14-87, Cl. 148-327.000.

uha, Subhendu; and Agarwal, Satish, to Energy Conversion Devices, Inc. Thin film light emitting diode, photonic circuit employing said diode imager employing said circuits. 4,695,859, 9-22-87, Cl. 357-19.000.

uha, Subhendu: *See*—
Ovshinsky, Stanford R.; Guha, Subhendu; Nath, Prem; Yang, Chi C.; Fournier, Jeffrey; and Kulman, James, 4,637,895, Cl. 252-188.310.
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Satzger, Viktor; Guhr, Volker; and Laux, Gerhard, 4,698,957, Cl. 57-96.000.

uhring, Gottlieb: *See*—
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uhring, Inc.: *See*—
Reinauer, Joseph, 4,676,702, Cl. 408-144.000.

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Guice, Walter L., to Vetco Offshore, Inc. Casing hanger. 4,678,209, 7-7-87, Cl. 285-144.000.

Guichard, Francois M., to Compagnie Industrielle de Tubes et Lamps Electriques Citel. Module for the protection of multiwire lines against overvoltages. 4,654,619, 3-31-87, Cl. 337-32.000.

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Guichard, Jean, to Messier-Hispano-Bugatti (S.A.). Method and system of controlling braking on a wheeled vehicle. 4,683,538, 7-28-87, Cl. 364-426.000.

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Guichard, Jean-Louis V.: *See*—
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Guichard, Roland R. Speed reduction gear having axial and transverse components which are in equilibrium. 4,643,039, 2-17-87, Cl. 74-410.000.

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Seider, Robert J.; Guichelaar, Philip J.; and Anderson, Robert O., 4,659,022, Cl. 241-23.000.
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Guicherd, Laurent: *See*—
Styskal, Pierre; and Guicherd, Laurent, 4,656,734, Cl. 29-723.000.

Guida, Patrick M.: *See*—
Wright, David M.; and Guida, Patrick M., 4,651,882, Cl. 211-40.000.

Guided Wave, Inc.: *See*—
LeFebre, David A., 4,664,522, Cl. 356-328.000.

Guido, Heinz, to MAN Gutehoffnungshutte GmbH. Electrical melting furnace exchangeable electrode assembly a method for changing a contact electrode assembly. 4,700,355, 10-13-87, Cl. 373-72.000.

Guido, Jurgen; and Binzer, Norbert. Pipe clip of resilient material. 4,669,156, 6-2-87, Cl. 24-336.000.

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Guido Oberdorfer WAP-Maschinen: *See*—
Oberdorfer, Guido, 4,665,581, Cl. 15-326.000.

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Barazeche, Bahman; Alexis, Roger P. J.; and Guidoux, Loic B. Y., 4,645,884, Cl. 379-406.000.

Guidry, John P.; and Gavranovic, Lee Roy C., to Well Improvement Specialists, Inc. Sand control system. 4,681,163, 7-21-87, Cl. 166-278.000.

Guiffray, Michel. Method for manufacturing containers of a flexible or semi-rigid material and having an elongated neck, and containers manufactured by said method. 4,642,972, 2-17-87, Cl. 53-453.000.

Guiffray, Michel. Container shaped in such manner as to be unoverturnable for receiving a liquid. 4,709,821, 12-1-87, Cl. 215-1.00R.

Guigan, Jean. Method of performing biological analyses using immunological reactions, and apparatus for performing the method. 4,673,653, 6-16-87, Cl. 436-8.000.

Guigan, Jean. Conditioning strip for performing medical analyses on a sample of liquid and using dry reagents. 4,714,590, 12-22-87, Cl. 422-102.000.

Guignard, Claude; Giglio, Tony; and Benmiloud, Abdelkader. Thermoformable element and use thereof. 4,685,453, 8-11-87, Cl. 128-90.000.

Guignard, Claude: *See*—
Leflaive, Etienne; and Guignard, Claude, 4,645,381, Cl. 405-258.000.

Guigonis, Jacques: *See*—
Rogier, Serge; and Guigonis, Jacques, 4,711,298, Cl. 165-165.000.

Guilbault, Joseph D., to Stouffer Corporation, The. Combined exercise station and sleeping bed. 4,679,787, 7-14-87, Cl. 272-93.000.

Guilbault, Lawrence J.; McEntee, Thomas C.; Koob, Judith L.; and Brophy, James F., to Morton Thiokol, Inc. Method of incorporating antimicrobial agents into fibers. 4,649,079, 3-10-87, Cl. 428-375.000.

Guilbault, Lawrence J.; McEntee, Thomas C.; and Koob, Judith L., to Morton Thiokol, Inc. Method for controlling isothiazolone antimicrobial content of fibers. 4,685,932, 8-11-87, Cl. 8-490.000.

Guilbault, Lawrence J.; and Ulman, Jeffrey A., to Morton Thiokol, Inc. Method for prevention of metallic precipitate reoxidation/redissolution in aqueous systems. 4,698,162, 10-6-87, Cl. 210-710.000.

Guilbault, Lawrence J.: *See*—
Hoover, M. Fred; and Guilbault, Lawrence J., 4,713,236, Cl. 424-70.000.
McEntee, Thomas C.; Guilbault, Lawrence J.; Brophy, James F.; and Koob, Judith L., 4,643,920, Cl. 427-434.600.
McEntee, Thomas C.; Guilbault, Lawrence J.; Brophy, James F.; and Koob, Judith L., 4,649,078, Cl. 428-375.000.

Guile, Donald L., to Corning Glass Works. Stabilized zirconia bodies of improved toughness. 4,659,680, 4-21-87, Cl. 501-104.000.
Guile, Peter J. D., to Exxon Production Research Company. System for connecting two members together. 4,702,636, 10-27-87, Cl. 403-24.000.
Guiler, Richard S., to E. J. Brooks Company. Front entry electric meter locking assembly. 4,674,304, 6-23-87, Cl. 70-164.000.
Guiler, Richard S.: *See*—
Brammall, Terrence; and Guiler, Richard S., 4,681,355, Cl. 292-323.000.
Guiles, Joseph W.: *See*—
Brunelle, Daniel J.; Guggenheim, Thomas L.; Boden, Eugene P.; Shannon, Thomas G.; and Guiles, Joseph W., 4,696,998, Cl. 528-272.000.
Guilford Mills, Inc.: *See*—
Duval, Paul A., 4,698,276, Cl. 428-116.000.
Porat, Itzchak, 4,653,293, Cl. 66-207.000.
Scheller, Holger, 4,712,281, Cl. 28-162.000.
Guilford, Richard P.; and Rosborough, John R., to United States of America, Energy. Monitoring transients in low inductance circuits. 4,716,364, 12-29-87, Cl. 324-127.000.
Guilfoyle, Peter S., to Guiltech Research Company, Inc. Computing method and apparatus. 4,667,300, 5-19-87, Cl. 364-713.000.
Guilhaumou, Nicole: *See*—
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Guilhem, Jacques M. Flat composite board. 4,657,790, 4-14-87, Cl. 428-71.000.
Guilhem, Jacques R. J.: *See*—
Cartier, Claude J.; Guilhem, Jean R. R.; Guilhem, Jacques R. J.; and Wenger, Roger L. L., 4,648,392, Cl. 128-160.000.
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Cartier, Claude J.; Guilhem, Jean R. R.; Guilhem, Jacques R. J.; and Wenger, Roger L. L., 4,648,392, Cl. 128-160.000.
Guill, Dennis J.; McPherson, Larry D.; and Sizelan, John H., to Rockwell International Corporation. Waveguide dehydrator apparatus. 4,694,267, 9-15-87, Cl. 333-248.000.
Guill, Frederick C., to United States of America, Navy. Blast shield for protecting one seat of a multiple seat arrangement of an aircraft during independent ejection of the other seat. 4,650,137, 3-17-87, Cl. 244-121.000.
Guillaume, Jacques; Clemence, Francois; and Brown, Neil L., to Roussel Uclaf. Ethenylphenol-indoles having antiarythmic utility. 4,650,811, 3-17-87, Cl. 514-415.000.
Guillaume, Michel E.; and Noailly, Nicole. Device for the optical measurement of the edge to edge dimension of an object. 4,636,639, 1-13-87, Cl. 250-560.000.
Guillaumin, Jacques, to Jeumont-Schneider Corporation. Logic circuit with threshold and built-in safety. 4,677,316, 6-30-87, Cl. 307-442.000.
Guillaumin, Jacques, to Jeumont-Schneider Corporation. Logic circuit producing a direct-current output signal of determined maximum intensity. 4,701,632, 10-20-87, Cl. 307-261.000.
Guillaumin, Jacques, to Jeumont-Schneider Corporation. Thermal compensation method for a magnetic circuit having an oscillating circuit with an inductance coil. 4,704,578, 11-3-87, Cl. 324-225.000.
Guillaumon, Jean-Claude; Blet, Louis J. C.; and Guerard, Francoise M. J. B., to Centre National d'Etudes Spatiales, and Master Peintures. Process for the preparation of an antimony oxide-doped tin oxide pigment with improved electrical conductivity properties, and white and tinted conductive paints containing this pigment which are useful for the removal of electrostatic charges. 4,655,966, 4-7-87, Cl. 252-518.000.
Guillemet, Bernard: *See*—
Jarry, Philippe; Haji, Mohamed L.; Guittard, Pierre; Guillemet, Bernard; and Piaget, Claude, 4,683,163, Cl. 428-209.000.
Guillen, Jean-Marie: *See*—
Moss, Elizabeth L.; and Guillen, Jean-Marie, 4,653,562, Cl. 160-105.000.
Guillermet, Robert; Ladet, Michel; Laslaz, Gerard; and Le Bars, Claude, to Aluminium Pechiney. Process and apparatus for electrochemical treatment of the surface of metal products of elongate shape. 4,681,665, 7-21-87, Cl. 204-14.100.
Guillery, Patrick: *See*—
Jacquiot, Jean-Paul; and Guillery, Patrick, 4,634,570, Cl. 376-247.000.
Jacquiot, Jean-Paul; and Guillery, Patrick, 4,637,913, Cl. 376-247.000.
Guillet, James E.; and Redpath, Anthony E., to Ecoplastics Limited. Fluorene containing compounds and negative photoresist compositions therefrom. 4,663,412, 5-5-87, Cl. 526-284.000.
Guillier, Alain: *See*—
Neyroud, Jean; Guillier, Alain; and Mahi, Abdelkader, 4,648,008, Cl. 361-387.000.
Guillin, Daniel: *See*—
Bouteille, Daniel; Nicolas, Michel; and Guillin, Daniel, 4,690,035, Cl. 91-442.000.
Guillochon, Didier: *See*—
Piot, Jean-Marie; Guillochon, Didier; Charet, Pierre; and Thomas, Daniel, 4,650,589, Cl. 210-691.000.
Guillory, Jack P.: *See*—
Kolts, John H.; and Guillory, Jack P., 4,672,145, Cl. 585-658.000.
Guillory, Lloyd J. Moveable safety railing. 4,669,683, 6-2-87, Cl. 244-114.00R.
Guillot, Jean; Raynaud, Jacques; Maree, Michel; Vaillant, Robert; and Ansaldi, Jean, to Societe Nationale Industrielle et Aerospatiale. Procedure for steering a low-speed missile, weapon system and missile for implementation of the procedure. 4,645,139, 2-24-87, 244-3.220.
Guillot, Jean-Francois, to Commissariat a l'Energie Atomique. Co pling device between a motor member and a receiver mem 4,661,307, 4-28-87, Cl. 376-232.000.
Guillot, Roger: *See*—
Aguettant, Jean-Christophe; and Guillot, Roger, 4,653,42 118-326.000.
Guillou, Michel: *See*—
Dodin, Andre; Avrameas, Eustrate; Goud, Bruno; Guillou, Mi chel; and Nicolas, Renee, 4,677,055, Cl. 435-7.000.
Guiltech Research Company, Inc.: *See*—
Guilfoyle, Peter S., 4,667,300, Cl. 364-713.000.
Guim, Raul. Fuse cap warning light. 4,673,928, 6-16-87, Cl. 340
Guim, Raul. Safety booster cables with time delay. 4,701,688, 10-20 Cl. 320-25.000.
Guin, Carmen N.; and Hood, Sammy, to Denton Mills, Inc. Autom rib cuff machine. 4,644,883, 2-24-87, Cl. 112-121.290.
Guina, Milan: *See*—
Miler, Rajko; and Guina, Milan, 4,668,467, Cl. 376-282.000.
Guinan, James J.: *See*—
Hackney, Ronald J.; and Guinan, James J., 4,672,07 514-368.000.
Guinan, Thomas, to Heinemann Electric Company. Mechanism transmitting movement between switch handles of respec switches. 4,665,284, 5-12-87, Cl. 200-50.00C.
Guinard de Separation: *See*—
Prunier, Robert G., 4,643,826, Cl. 210-225.000.
Guindon, Yvan: *See*—
Atkinson, Joseph G.; Guindon, Yvan; Belanger, Patrice C. a Rokach, Joshua, 4,634,766, Cl. 544-34.000.
Atkinson, Joseph G.; Guindon, Yvan; and Lau, Cheuk K 4,663,347, Cl. 514-467.000.
Fortin, Rejean; Lau, Cheuk K.; Guindon, Yvan; Rokach, Josh and Yoakim, Christiane, 4,666,907, Cl. 514-223.000.
Lau, Cheuk K.; Yoakim, Christiane; Rokach, Joshua; Fortin, Re jean; and Guindon, Yvan, 4,667,032, Cl. 544-35.000.
Guinea, Jose M. R. Kinetic energy utilization system for an all vehicles with internal combustion engine. 4,658,781, 4-21-87, C 123-325.000.
Guinn, Ronald K.; and Fell, Ferol S., to Hesston Corporation. Cha and straw spreading attachment for combines. 4,637,406, 1-20-87, C 130-27.00R.
Guinn, William H., Jr.; Corbett, Richard M.; Bundy, Robert S.; Sa man, Jeffrey M.; Duncan, Keith B.; and Link, Charles M., II, to BB Industries, Inc. Telephone paging system and method. 4,642,4 2-10-87, Cl. 379-57.000.
Guinot, Jean-Claude; Lallemand, Jean-Paul; Murgoet, Denis; Zeghlo Said; and Bidaud, Philippe, to La Calhene, Societe Anonyme. Mu ple point contact gripper. 4,653,793, 3-31-87, Cl. 294-86.400.
Guinot, Philippe M., to Societe de Conseils de Recherches et d'Applica tions Scientifiques. Therapeutic compositions for the treatment hangover. 4,703,045, 10-27-87, Cl. 514-159.000.
Guins, Sergei G., to Kaser Associates, Inc. Cross corrugated fiberbo and method and apparatus for making the same. 4,657,611, 4-14-8 Cl. 156-157.000.
Guinta, Robert R., to Audimax, Inc. Method of evaluating the vestib lar system. 4,667,676, 5-26-87, Cl. 128-419.00R.
Guion, Christian, to Flonic. Apparatus for reading electronic memo cards. 4,675,516, 6-23-87, Cl. 235-441.000.
Guioth, Chantal H.; Maze, Etienne G.; and Rabagne, Loick P., to Akz NV. Process for coating an electrically conductive substrate and a aqueous coating composition based on a cationic binder. 4,710,2 12-1-87, Cl. 204-181.700.
Guioth, Chantal H.; Maze, Etienne G.; and Trescol, Jean J., to Akz NV. Process for coating an electrically conductive substrate and a aqueous coating composition based on cationic binder. 4,714,5 12-22-87, Cl. 204-181.700.
Guioth, Chantal H.; Maze, Etienne G.; and Trescol, Jean J., to Akz NV. Process for coating an electrically conductive substrate and a aqueous coating composition based on a cationic binder. 4,714,5 12-22-87, Cl. 204-181.700.
Guirguis, Raafat H. Two-phase engine. 4,646,515, 3-3-87, Cl. 60-39
Guiroy, Patrick: *See*—
Garrigues, Jean-Claude; and Guiroy, Patrick, 4,653,724, C 251-306.000.
Guislain, Guy. Articulation device for use in raising and supporting a antenna mast. 4,697,779, 10-6-87, Cl. 248-530.000.
Guislain, Guy: *See*—
Foissac, Yves; and Guislain, Guy, 4,656,804, Cl. 52-309.160.
Guistina, Robert A., to Eastman Kodak Company. Method and appara tus for developing electrographic images uses molecular sieve zeolit 4,656,966, 4-14-87, Cl. 118-661.000.
Guiterrez, William A.: *See*—
Wilson, Herbert L.; and Guiterrez, William A., 4,699,084, C 118-725.000.
Guittard, Christine; and Salou, Catherine, to Compagnie Gervais Da none. Compositions for coating milk-based food products. 4,650,6 3-17-87, Cl. 426-103.000.
Guittard, George V.; Deters, Joseph C.; Theeuwes, Felix; and Cortese Richard, to Alza Corporation. Osmotic system with instant drug availability. 4,673,405, 6-16-87, Cl. 604-890.000.
Guittard, George V.: *See*—
Hamel, L. G.; Landrau, Felix A.; Wong, Patrick S. L.; and Guittard, George V., 4,662,880, Cl. 604-892.000.

Guittard, Pierre: *See*—
- Jarry, Philippe; Hap, Mohamed I.; Guittard, Pierre; Guillemet, Bernard; and Piaget, Claude, 4,683,163, Cl. 428-209.000.

Gula, Lance: *See*—
- McKee, Jere L.; Thomas, Glenn R.; Haugh, Charles E.; and Gula, Lance, 4,656,444, Cl. 335-16.000.

Gulich, Erich, to IBAK, Helmut Hunger GmbH & Co., KG. Television camera with a device for varying its viewing direction. 4,661,855, 4-28-87, Cl. 358-225.000.

Gulczynski, Zdzislaw. Operational amplifier. 4,634,996, 1-6-87, Cl. 330-261.000.

Gulczynski, Zdzislaw. Operational amplifier. 4,714,894, 12-22-87, Cl. 330-261.000.

Guldager, Hans. Cellular element. 4,646,373, 3-3-87, Cl. 5-455.000.

Guldager, Hans. Cellular element. 4,651,369, 3-24-87, Cl. 5-455.000.

Guldner, Ralf: *See*—
- Stoll, Wolfgang; and Guldner, Ralf, 4,672,213, Cl. 250-506.100.

Guler, Michael G.; Patel, Sharadchandra D.; Conn, James K.; and Foster, Marcus L., to Harris Corporation. Technique for fabricating offset shaped antenna reflectors. 4,688,325, 8-25-87, Cl. 29-600.000.

Guleserian, Armen J.: *See*—
- Pelmulder, John P.; Gorton, Lanny A.; Guleserian, Armen J.; and Livingston, John H., 4,712,563, Cl. 137-852.000.

Gulette, Ronald S., and Charon, Grace M., to Irvin Industries, Inc. Motor vehicle visor with removable mirror assembly. 4,711,483, 12-8-87, Cl. 296-97.00C.

Guley, Paul C., to American Home Products Corporation. Rapid releasing triamterene containing gelatin capsule dosage forms for once daily antihypertensive use. 4,681,765, 7-21-87, Cl. 424-456.000.

Gulezian, Haig A.; Hargrave, Russell W., III; and Magro, William E., to Wang Laboratories, Inc. Telephone handset assembly. 4,675,903, 6-23-87, Cl. 379-433.000.

Gulf Canada Corporation: *See*—
- Butler, Stuart D., 4,664,206, Cl. 175-325.000.
- Woods, H. John; and Szabrada, Frank, 4,640,762, Cl. 208-56.000.

Gulf Canada Limited: *See*—
- Al-Saigh, Abbas, 4,642,223, Cl. 422-191.000.
- Schramm, Laurier L., 4,637,417, Cl. 137-4.000.

Gulf Eastern Manufacturing Company: *See*—
- Farthing, Denis, 4,712,967, Cl. 414-563.000.

Gulf Oil Corporation (Pennsylvania): *See*—
- Taylor, James L., 4,670,104, Cl. 202-84.000.

Gulf Research & Development Company: *See*—
- Occelli, Mario L., and Kennedy, James V., 4,650,564, Cl. 208-113.000.

Gulf South Research Institute: *See*—
- Gettleman, Lawrence, and Gebert, Paul H., 4,661,065, Cl. 433-168.100.

Gulf & Western Manufacturing Company: *See*—
- Chiu, Daniel Y. S.; Miller, David D.; May, William L.; and Baker, Dennis G., 4,647,123, Cl. 339-17.0LM.
- Reid, Paul D., 4,674,711, Cl. 244-110.00C.
- Walker, Clifford R., 4,666,031, Cl. 198-450.000.

Gulfstream Goodwill Industries, Inc.: *See*—
- Caudill, William; and Klimczky, Frank, 4,643,607, Cl. 403-194.000.

Gulick, John J.: *See*—
- Kildea, James M.; Bedner, Maria D.; and Gulick, John J., 4,637,514, Cl. 206-406.000.

Gulick, Paul E.: *See*—
- King, Christopher N.; Dolinar, Brian J.; Barrow, William A.; Flegal, Robert T.; Gulick, Paul E.; and Blacken, Laurin G., 4,691,144, Cl. 315-169.300.

Gulistan, Bulent. Captive panel fastener. 4,655,658, 4-7-87, Cl. 411-353.000.

Gulla, Michael; Dutkewych, Oleh B., and Bladon, John J., to Shipley Company Inc. Catalytic metal of reduced particle size. 4,634,468, 1-6-87, Cl. 106-1.110.

Gulla, Michael; Dutkewych, Oleh B.; and Bladon, John J., to Shipley Company Inc. Catalytic metal of reduced particle size. 4,652,311, 3-24-87, Cl. 106-1.110.

Gulla, Michael: *See*—
- Catlin, William J.; Gulla, Michael; and Newton, Charles L., 4,674,440, Cl. 118-688.000.

Gullberg, Carl E., to Pharmacia AB. Coating method. 4,714,621, 12-22-87, Cl. 427-2.000.

Gullberg, Grant T., and Crawford, Carl R., to General Electric Company. Method and means of correcting for a shift in the center of rotation of a rotating fan beam CT system. 4,703,424, 10-27-87, Cl. 364-414.000.

Gullers, Per, to Alfa-Laval Separation AB. Centrifugal separator. 4,710,159, 12-1-87, Cl. 494-27.000.

Gullett, Bradley T. Weed trimmer. 4,685,279, 8-11-87, Cl. 56-12.700.

Gullett, Edwin P., and Franz, Leo J., to Leggett & Platt, Incorporated. Gravity feed pusher merchandiser. 4,651,883, 3-24-87, Cl. 211-59.200.

Gullett, Larry L., and Simmons, Charles L., to Tennessee Valley Authority. Sulfur-coated urea. 4,676,821, 6-30-87, Cl. 71-28.000.

Gullette, James C.: *See*—
- Taylor, Stewart A.; and Gullette, James C., 4,703,744, Cl. 124-20.00R.

Gulley, Harold J. Coolant additive with corrosion inhibitive and scale preventative properties. 4,711,735, 12-8-87, Cl. 252-75.000.

Gullfiber AB: *See*—
- Andersson, Ralf G., 4,639,318, Cl. 210-491.000.

Gullickson, Daniel J. Cover for control mechanism. 4,675,954, 6-30-87, Cl. 24-633.000.

Gullickson, M. Roy. Hay drying apparatus. 4,640,021, 2-3-87, Cl. 34-15.000.

Gulliford, John S.: *See*—
- Clark, Paul W.; and Gulliford, John S., 4,658,326, Cl. 361-215.000.

Gulton Industries, Inc.: *See*—
- Berry, Jeffrey R., 4,663,734, Cl. 364-900.000.
- Doshi, Vikram N., 4,713,145, Cl. 156-667.000.
- Lee, Kyong H.; and Maschhoff, Robert H., 4,707,673, Cl. 333-112.000.
- Rector, Robert E.; Taylor, Larry T.; and Grass, Richard L., 4,661,808, Cl. 340-735.000.

Gulyas, Tamas; Horvath, Aniko; Keri, Gyorgy; Nikolics, Karoly; Szoke, Balazs; and Teplan, Istvan, to Kozponti Valto-es Hitelbank Rt. Innovacios Alap. Process for obtaining ready for fertilization sexual products from sexually mature fish. 4,647,552, 3-3-87, Cl. 514-15.000.

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Gum Base Co., S.p.A.: *See*—
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  - Shigenai, Osamu; Saito, Yukio; Gunji, Kunihiko; Shimaoka, Motohiro; Hirose, Yasuyuki; and Okita, Masao, 4,672,490, Cl. 360-105.000.
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- Gunn, Lawrence H., to Pestcon Systems, Inc. Apparatus for fumigating bulk-stored commodities. 4,641,573, 2-10-87, Cl. 99-482.000.
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- Gunnoe, George H., Jr., to General Electric Company. Carbon brushes in sealed silicone environment with controlled vapor pressure. 4,659,954, 4-21-87, Cl. 310-248.000.
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- Gunter, Franz, to Ciba-Geigy Corporation. Process for preparing quaternary ammonium salts. 4,675,180, 6-23-87, Cl. 424-70.000.
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  - Allison, Ricardo A.; Gunter, John B.; Winkler, Clifford J.; Falk, Diane E.; and Chuang, Ray F., 4,649,609, Cl. 29-26.00A.
- Gunter, Jonas L.: *See*—
  - Rush, James B.; Bryan, James S.; Gunter, Jonas L.; Dillard, Guy W.; Meadows, Roger D.; and Henry, Pearison W., 4,637,638, Cl. 285-158.000.
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  - Hafele, Walter; and Guntert, Josef, 4,706,626, Cl. 123-364.000.
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  - Bender, Albert; Gunther, Dieter; Willms, Lothar; and W Rainer, 4,650,902, Cl. 564-80.000.
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  - Gunther, William H., Jr., 4,694,631, Cl. 53-55.000.
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  - Miller, Mike F.; and Gunther, Kim M., 4,715,039, Cl. 372-37
- Gunther, Robert A.: *See*—
  - Philips, James P.; and Gunther, Robert A., 4,672,9 C 455-89.000.
- Gunther, Seidl: *See*—
  - Johann, Merz; and Gunther, Seidl, 4,715,793, Cl. 417-300.0
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Gurske, William A.: *See*—

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Osono, Takashi; Oka, Yoshihiko; Watanabe, Shunichi; Saito, Takeshi; Gushima, Hiroshi; Murakami, Keisuke; Takahashi, Isao; Yamaguchi, Hiroshi; Sasaki, Toshio; Susaki, Kiyoshi; Takamura, Shuichi; and Miyoshi, Toshiaki, 4,656,262, Cl. 540-221.000.

Gusman, Irwin J., to J. P. Stevens & Co., Inc. Fitted sheet. 4,703,530, 11-3-87, Cl. 5-497.000.

Gusman, Moisei T.: *See*—

Baldenko, Dmitry F.; Bezlepkin, Nikolai P.; Vadetsky, Jury V.; Gusman, Moisei T.; Potapov, Jury F.; and Semenets, Valery I., 4,711,006, Cl. 29-156.40R.

Gusowski, Ronald I., deceased: *See*—

Bernstein, David H.; Buckley, Edward M.; March, Roger W.; and Gusowski, Ronald I., deceased, 4,649,470, Cl. 364-200.000.

Gussman, Robert L., to Reliability Incorporated. Burn-in board for use with automated unloader. 4,684,182, 8-4-87, Cl. 439-68.000.

Gussow, William C., to Resurrection Oil Corporation. Method of recovering oil. 4,676,314, 6-30-87, Cl. 166-268.000.

Gust, Daniel M., to Outboard Marine Corporation. Water pump for marine propulsion devices. 4,673,359, 6-16-87, Cl. 440-88.000.

Gust, Ian D.: *See*—

Daemer, Richard J.; Feinstone, Stephen M.; Gust, Ian D.; and Purcell, Robert H., 4,636,469, Cl. 435-237.000.

Gust, Jacob N., to J.D. Enterprises, Inc. Trailer with conveyor bed. 4,664,583, 5-12-87, Cl. 414-528.000.

Gustafson, Bengt G., to U.S. Philips Corporation. Method and a system for monitoring a sea area. 4,639,900, 1-27-87, Cl. 367-5.000.

Gustafson, Carl G.; and Ertell, Carolyn A., to Stauffer Chemical Company. Granular anhydrous dicalcium phosphate compositions suitable for direct compression tableting. 4,707,361, 11-17-87, Cl. 424-154.000.

Gustafson, Harry A.; Lim, Wah L.; and Zeman, Francis H., to Honeywell Inc. Ring laser lock-in correction apparatus. 4,641,970, 2-10-87, Cl. 356-350.000.

Gustafson, Kenneth I.: *See—*

  Finkel, Joel R.; Jacobs, Paul F.; Gustafson, Kenneth I.; and Green, William D., 4,678,322, Cl. 355-133.000.

Gustafson, Michael: *See—*

  Reed, Ronald G.; and Gustafson, Michael, 4,654,956, Cl. 29-568.000.

Gustafson, Thomas J.: *See—*

  Powers, Frederick A.; and Gustafson, Thomas J., 4,637,2''5, Cl. 92-170.000.

Gustafson, Troy C. Parachute apparatus for model airplane. 4,709,884, 12-1-87, Cl. 244-139.000.

Gustafsson, Alf G., to Flakt AB. Method and arrangement for varying a voltage occurring between the electrodes of an electrostatic dust separator. 4,704,672, 11-3-87, Cl. 363-86.000.

Gustafsson, Bengt-Olof: *See—*

  Stroucken, Klaus; and Gustafsson, Bengt-Olof, 4,643,708, Cl. 494-40.000.

Gustafsson, Bill B. R.; Hedberg, Sven A.; and Lundgren, Bo T., to Aktiebolaget Hassle. Para-substituted 3-phenoxy-1-carbonylamino-alkylamino-propanol compounds, beta receptor blocking compositions and use. 4,636,501, 1-13-87, Cl. 514-235.000.

Gustafsson, Erik: *See—*

  Kero, Ernst; and Gustafsson, Erik, 4,697,529, Cl. 108-511.000.

Gustafsson, Hans; Schwartz, Stephan; and Widen, Karl-Bertil, to Electro Cell AB. Catalyst element, a process for the preparation thereof as well as a use thereof. 4,696,910, 9-29-87, Cl. 502-159.000.

Gustafsson, Jan A. C., to U.S. Philips Corporation. Sealing arrangement for microwave ovens. 4,645,892, 2-24-87, Cl. 219-10.55D.

Gustafsson, Jan-Erik: *See—*

  Andersson, Susanne; Gustafsson, Jan-Erik; Herngren, Torbjorn; Carlsson, Staffan; and Hage, Gunnar, 4,683,841, Cl. 122-22.000.

Gustafsson, Jukka: *See—*

  Moisala, Tapio; and Gustafsson, Jukka, 4,715,877, Cl. 65-15.000.

Gustafsson, Lars-Erik: *See—*

  Carlsson, Stiv E. I.; Gustafsson, Lars-Erik; and Robertsson, Karl T. W., 4,674,924, Cl. 407-114.000.

Gustafsson, Paul, to AB Tico. Device of the kind comprising at least three movably co-ordinated parts. 4,690,290, 9-1-87, Cl. 212-267.000.

Gustafsson, Per S. G., to Atlas Copco Aktiebolag. Hydraulic down-the-hole rock drill. 4,660,658, 4-28-87, Cl. 175-296.000.

Gustafsson, Rolf: *See—*

  Sahlgren, Anders; Gustafsson, Rolf; Goransson, Bo; and Sundqvist, Yngve, 4,684,268, Cl. 384-574.000.

Gustav Georg Veith GmbH & Co.: *See—*

  Veith, Gustav G.; and Veith, Gotz U., 4,709,870, Cl. 242-68.000.

Gustavson, Larry J.: *See—*

  Wang, Kathy K.; Gustavson, Larry J.; and Dumbleton, John H., 4,668,290, Cl. 75-235.000.

  Wang, Kathy K.; Gustavson, Larry J.; and Dumbleton, John H., 4,714,468, Cl. 623-16.000.

Gustavsson, Bengt. Pressure balancing device for sealed vessels. 4,673,404, 6-16-87, Cl. 604-411.000.

Gustavsson, Bo: *See—*

  Stoltz, Klas; Gustavsson, Bo; and Gustavsson, Kerstin, 4,635,978, Cl. 292-144.000.

Gustavsson, Curt, to Flakt AB. Discharge electrode. 4,666,475, 5-19-87, Cl. 55-148.000.

Gustavsson, Hans; and Bystedt, Christer, to Slapvagnskopplingar AB. Dolly having an adjusting flexible or rigid connection. 4,645,226, 2-24-87, Cl. 280-423.00A.

Gustavsson, Harry, to AB Wedalco Centerless. Method of continuously grinding the teeth of saw bands and saw blades. 4,693,145, 9-15-87, Cl. 76-112.000.

Gustavsson, Kerstin: *See—*

  Stoltz, Klas; Gustavsson, Bo; and Gustavsson, Kerstin, 4,635,978, Cl. 292-144.000.

Gustavsson, Lennart, to Flakt AB. Method and apparatus for producing a continuous web. 4,712,277, 12-15-87, Cl. 19-296.000.

Gustin, Paul R.: *See—*

  Denkmann, W. John; Gustin, Paul R.; and Reichard, George W., Jr., 4,650,269, Cl. 339-99.00R.

Gusto Engineering C.V.: *See—*

  van Ketel, Hendrik, 4,664,269, Cl. 212-175.000.

  Van Ketel, Hendrik, 4,673,093, Cl. 212-175.000.

Gut, Edward B.; and Orrico, Mario M. V., to Honeywell Inc. Space static pressure control. 4,705,066, 11-10-87, Cl. 137-486.000.

Gut, Karl; and Henych, Ivo, to Georg Fischer Aktiengesellschaft. Method of keeping inductor spouts, downgates and outlet channels free of deposits in connection with a cast iron melt. 4,657,588, 4-14-87, Cl. 420-20.000.

Gut, Karl: *See—*

  Gerber, Urs; Gerber, Erich; Hofer, Peter; Fischer, Erwin; Lusuardi, Werther; Gysel, Walter; Baggi, Roland; Rogg, Eduard; and Gut, Karl, 4,665,794, Cl. 89-36.020.

Gut, Martin: *See—*

  Burke, Peter A.; Duering, Walter; and Gut, Martin, 4,705,181, Cl. 215-220.000.

Gutek, Beth I.: *See—*

  Kookootsedes, Gust J.; Reese, Herschel H.; Gutek, Beth I.; and Pretzer, Gale H., 4,701,017, Cl. 350-96.340.

Gutekunst, Stanley K.; Scheel, Russell H.; and Ziegenfus, Barry L., to Heico Inc. Linear drive unit. 4,648,325, 3-10-87, Cl. 104-166.000.

Guterman & Co. A.G.: *See—*

  Rottleb, Dieter, 4,659,032, Cl. 242-118.400.

Guth, Gerhard; Kuhn, Walter; Linhofer, Gerhard; and Sadek, Kadry, to BBC Brown, Boveri & Company, Limited. Method for reducing dynamic overvoltages in an alternating-current system to whic direct-current system is connected. 4,689,733, 8-25-87, Cl. 363-51.00

Guth, Gordon T.; Morrow, James D.; and Sherry, Lois R., to Abbo Laboratories. Utility tray. 4,658,957, 4-21-87, Cl. 206-365.000.

Guthery, B. Eugene, to Geneco Inc. Method of eliminating intra-a dominal infections. 4,704,102, 11-3-87, Cl. 604-28.000.

Guthke, Hans-Peter: *See—*

  Soltow, Uwe; Guthke, Hans-Peter; Plate, Hans-Georg; Lechne Johann; and Kirma, Safa, 4,715,571, Cl. 248-68.100.

Guthlein, Werner: *See—*

  Deneke, Ulfert; Guthlein, Werner; Kuhr, Manfred; Merdes, He mut; Murawski, Hans-Rudiger; and Wielinger, Hans, 4,66 Cl. 435-28.000.

Guthling, Klaus; Meyer, Adolf J.; and Miethe, Manfred, to Fa. Wilhel Barenschee. Clamping device for printing plates and printing clo on printing machines. 4,641,576, 2-10-87, Cl. 101-415.100.

Guthoff, Wilfred, to Friedrich Wilh. Schwing GmbH. Bucket excava tor. 4,639,183, 1-27-87, Cl. 414-705.000.

Guthrie, David W. Apple labeling process. 4,698,226, 10-6-87, Cl 426-248.000.

Guthrie, Gerald, to 5W Enterprises, Inc. Quick adjusting nut. 4,693,6 9-15-87, Cl. 411-433.000.

Guthrie, James L.; Roberts, Helen F.; and Lundsager, Christian B., t W. R. Grace & Co. Welding sealants for metals and method of us 4,661,675, 4-28-87, Cl. 219-91.210.

Guthrie, Karl; and Schwartz, Joseph. Roller-chock climbing ai 4,643,378, 2-17-87, Cl. 248-1.000.

Guthrie, Kenneth R.: *See—*

  Martin, James R.; and Guthrie, Kenneth R., 4,651,558, Cl. 73- 40.50R.

Guthrie, Richard; McDonald, Thomas B., III; and Anafi, David, t United Technologies Corporation. Unstable confocal resonator ca ity alignment system. 4,664,517, 5-12-87, Cl. 356-138.000.

Guthrie, Richard A. Dispenser for collapsible tubes. 4,688,700, 8-25-8 Cl. 222-94.000.

Guthrie, Richard D.: *See—*

  Pate, Jim F.; and Guthrie, Richard D., 4,662,069, Cl. 30-273.00

Guthrie, Walker L. Method of forming corrugated panel. 4,708,75 11-24-87, Cl. 156-163.000.

Guthrie, William L.: *See—*

  Chow, Ming-Fea; Guthrie, William L.; and Kaufman, Frank B. 4,702,792, Cl. 156-628.000.

Gutierrez, Antonio; Brois, Stanley J.; Ryer, Jack; and Deen, Harold E. to Exxon Research & Engineering Co. Metal salt esters of hydrocarbyl substituted succinic acid or anhydride and thio alkanols 4,664,826, 5-12-87, Cl. 252-482.000.

Gutierrez, Antonio; Brois, Stanley J.; Ryer, Jack; and Deen, Harold E. to Exxon Research & Engineering Co. Power transmitting flui containing esters of hydrocarbyl succinic acid or anhydride wit thio-bis-alkanols. 4,702,850, 10-27-87, Cl. 252-48.200.

Gutierrez, Antonio: *See—*

  Bock, Jan; Brownawell, Darrell W.; Gutierrez, Antonio; Robbins, Max L.; Shaub, Harold; and Steyn, Peter L., 4,684,473, Cl 252-49.800.

  Brois, Stanley J.; and Gutierrez, Antonio, 4,637,886, Cl. 25 51.50A.

  Wisotsky, Max J.; Bloch, Ricardo; Brownawell, Darrell W.; Che Frank J.; and Gutierrez, Antonio, 4,686,054, Cl. 252-32.70E.

Gutierrez, Eddie N.: *See—*

  Koermer, Gerald S.; Gutierrez, Eddie N.; and Prorok, Maryfrances, 4,701,527, Cl. 544-277.000.

Gutierrez, Richard: *See—*

  Kay, Edward L.; and Gutierrez, Richard, 4,647,607, Cl. 524-77.00

  Kay, Edward L.; and Gutierrez, Richard, 4,684,715, Cl 528-493.000.

Gutierrez, Romulo; Bauer, Albert W.; and McDonald, Thomas L., to Alpha Industries, Inc. Surface mounting package. 4,644,096, 2-17-87 Cl. 174-52.00H.

Gutierrez Rubio, Joaquin; and Garrido-Diaz, Antonio, to Sociedad Anonima de Racionalizacion y Mechanizacion (SADRYM). Introduced in connection with olive pitting and stuffing machine 4,644,859, 2-24-87, Cl. 99-494.000.

Gutierrez Rubio, Joaquin, to Sociedad Anonima de Racionalizacion y Mechanizacion (SADRYM). Fruit slicing machine. 4,646,632, 3-3-87, Cl. 99-538.000.

Gutierrez-Rubio, Joaquin, to Sociedad Anonima de Racionalizacion y Mecanizacion (Sadrym). Apparatus for sizing and peeling longated cylindrical bodies of vegetable matter. 4,679,499, 7-14-87, Cl 99-591.000.

Gutierrez, William A.; and Wilson, Herbert L., to United States of America, Army. Variable sensitivity transmission mode negative electron affinity photocathode. 4,644,221, 2-17-87, Cl. 313-373.000.

Gutkowski, Ronald R.; and Martens, Edward J., to S. C. Johnson & Son, Inc. Vapor-dispensing device. 4,660,763, 4-28-87, Cl. 239-43.000.

Gutleber, Frank S., to United States of America, Army. Small angular beamwidth antenna system. 4,638,318, 1-20-87, Cl. 342-383.000.

Gutman, Jerzy: *See—*

  Cook, Bruce M.; and Gutman, Jerzy, 4,661,310, Cl. 376-259.000.

  Cook, Bruce M.; and Gutman, Jerzy, 4,696,785, Cl. 376-245.000.

Gutman, Robert F., to United Techologies Automotive, Inc. Button se and switch. 4,678,872, 7-7-87, Cl. 200-5.00R.

Gutmann, Franz, to Plaston AG. Evaporation air humidifier. 4,698,18 10-6-87, Cl. 261-107.000.

Gutmann, Paul F.; and Lane, Donald R., to Solvay Construction Materials, Inc. Chemical additive for hydraulic cement mixes. 4,689,083 8-25-87, Cl. 106-88.000.

Gutmann, Walter: *See*—
  Seckinger, Erich, and Gutmann, Walter, 4,686,358, Cl. 235-382.000.

Gutnick, David L.: *See*—
  Shoham, Yuval; Rosenberg, Eugene, and Gutnick, David L., 4,704,360, Cl. 435-99.000.

Gutohrlein, Uwe; and Rosenthal, Jurgen, to Hoesch Aktiengesellschaft. Underfloor wheelset turning machine for reprofiling the wheel type contours of railway wheelsets. 4,674,369, 6-23-87, Cl. 82-8.000.

Gutohrlein, Uwe; and Brinkmann, Dirk, to Hoesch Maschinenfabrik. Underfloor wheelset turning machine for reprofiling wheel tire contours of railway wheelsets. 4,674,370, 6-23-87, Cl. 82-8.000.

Gutohrlein, Uwe: *See*—
  Brinkmann, Dirk, and Gutohrlein, Uwe, 4,669,292, Cl. 72-107.000.

Gutowski, Charles M.: *See*—
  Moore, William H.; Gutowski, Charles M.; Trosky, William J.; and Butler, Thomas A., 4,697,243, Cl. 364-513.000.

Gutowski, Timothy A.; and Tucker, Merl T., to Contour Roll Company. Pneumatic press controller and method. 4,633,742, 1-6-87, Cl. 83-13.000.

Gutridge, John R.: *See*—
  Morritt, Graham N.; Paes, Malvolio L.; Conácher, Ian D.; Gutridge, John R.; and Snellgrove, Timothy R., 4,648,386, Cl. 128-4.000.

Gutsche, Bernhard: *See*—
  Eckwert, Klemens; Jeromin, Lutz; Meffert, Alfred; Peukert, Eberhard; and Gutsche, Bernhard, 4,647,678, Cl. 549-528.000.

Gutsche, Gunter E. Method for storing and re-radiating energy to provide propulsion forces on devices. 4,707,979, 11-24-87, Cl. 60-203.100.

Gutsche, Walter: *See*—
  Gerken, Rudolf; Wiederhoft, Gerhard; Lailach, Gunter; Gutsche, Walter; and Muller, Wolfgang D., 4,663,131, Cl. 423-82.000.

Gutschick, Vincent P.; Barron, Michael H.; Waechter, David A.; and Wolf, Michael A., to United States of America, Energy. Method and apparatus for measuring solar radiation in a vegetative canopy. 4,678,330, 7-7-87, Cl. 356-222.000.

Gutschmit, Alan. Strand storing and delivering device. 4,687,150, 8-18-87, Cl. 242-47.010.

Gutschmit, Alan. Strand storing and delivering device. 4,691,873, 9-8-87, Cl. 242-47.010.

Guttag, Karl M.; Pinkam, Ray; and Novak, Mark F., to Texas Instruments Incorporated. Video system with single memory space for instruction, program data and display data. 4,660,156, 4-21-87, Cl. 364-521.000.

Guttag, Karl M.; and McDonough, Kevin C., to Texas Instruments Incorporated. Compressed control decoder for microprocessor system. 4,694,391, 9-15-87, Cl. 364-200.000.

Guttag, Karl M.: *See*—
  Heilveil, Andrew; VanAken, Jerry R.; Guttag, Karl M.; Redwine, Donald J.; Pinkham, Raymond; and Novak, Mark F., 4,639,890, Cl. 364-900.000.
  Novak, Mark F.; and Guttag, Karl M., 4,663,735, Cl. 364-900.000.
  Novak, Mark F.; Guttag, Karl M.; and Redwine, Donald J., 4,688,197, Cl. 365-230.000.
  Pinkham, Raymond; Valente, Fredrick A.; Guttag, Karl M.; and Vanaken, Jerry R., 4,648,077, Cl. 365-240.000.
  Thaden, Robert C.; Bond, Jeffrey C.; Moravec, John V.; Guttag, Karl M.; Pinkham, Raymond; and Novak, Mark, 4,656,596, Cl. 364-521.000.

Gutte, Richard: *See*—
  Pospich, Gunther; and Gutte, Richard, 4,678,832, Cl. 525-60.000.

Gutter, David H.; and Shatto, Walter C., Jr., to AMP Incorporated. Insulation displacing ground strap. 4,696,908, 9-29-87, Cl. 439-98.000.

Gutterfast Limited: *See*—
  Addison, Gordon D., 4,656,858, Cl. 72-181.000.

Gutterman, Karen S.; and Gutterman, Richard L. Alterable women's garment. 4,670,907, 6-9-87, Cl. 2-105.000.

Gutterman, Richard L.: *See*—
  Gutterman, Karen S., and Gutterman, Richard L., 4,670,907, Cl. 2-105.000.

Guttinger, Hannes; and Pfister, Gustav, to Cerberus AG. Scattered radiation smoke detector. 4,642,471, 2-10-87, Cl. 250-574.000.

Guttinger, Hannes; and Labhart, Martin, to Cerberus AG. Photoelectric smoke detector and its application. 4,647,786, 3-3-87, Cl. 250-574.000.

Guttinger, Heinrich, to BBC Brown, Boveri & Company, Ltd. Rotary-piston displacement machine. 4,715,797, 12-29-87, Cl. 418-55.000.

Guttinger, Heinz, to Sulzer-Escher Wyss AG. Method of operating a controlled deflection roll and a rolling mill equipped with at least one controlled deflection roll. 4,709,571, 12-1-87, Cl. 72-366.000.

Guttinger, Peter: *See*—
  Langen, Marinus J. M.; and Guttinger, Peter, 4,642,975, Cl. 53-564.000.
  Langen, Marinus J. M.; and Guttinger, Peter, 4,688,372, Cl. 53-529.000.

Guttner, Eckhard, to ANT Nachrichtentechnik GmbH. Method for increasing resolution in a compatible television system. 4,713,688, 12-15-87, Cl. 358-141.000.

Gutu-Nelle, Anca: *See*—
  Dorn, Reimund; Baumgartner, Armin; and Gutu-Nelle, Anca, 4,661,136, Cl. 65-18.100.

Guy, Arthur L.; and Glasscock, Maynard S., to Exxon Production Research Co. Marine template retaining wall and method of construction. 4,648,752, 3-10-87, Cl. 405-217.000.

Guy, Jon S.; Liu, Dean-Yuan; and Sholtis, Albert A., to Sanders Associates, Inc. Printhead mounting and movement control assembly. 4,705,414, 11-10-87, Cl. 400-120.000.

Guy, W. W.: *See*—
  Powers, Steven J., 4,685,213, Cl. 30-123.000.

Guyader, Jean: *See*—
  Colin, Yves; Rosse, Gabriel; Guyader, Jean; and Laurent, Yves, 4,695,432, Cl. 422-98.000.

Guyenet, Patrice G.: *See*—
  Jagger, Janine C.; Pearson, Richard D.; and Guyenet, Patrice G., 4,676,783, Cl. 604-171.000.

Guyette, Raymond F.; and Wright, William T., to Litton Systems, Inc. Cable stripping apparatus. 4,699,027, 10-13-87, Cl. 81-9.510.

Guyon, Claude: *See*—
  Cotrel, Claude; Guyon, Claude; Roussel, Gerard; and Taurand, Gerard, 4,642,308, Cl. 514-253.000.

Guyon-Gellin, Yves: *See*—
  Bentzen, Craig L.; Guyon-Gellin, Yves; Kalathakis, Kyriacos; Phan, Hieu T.; Nguyen Mong, Lan; Niesor, Eric; and Rossier, Jean-Robert, 4,696,920, Cl. 514-89.000.

Guyot, Alain: *See*—
  Richard, Philippe; Papillon, Jean-Charles; Guyot, Alain; and Corbellini, Carlo, 4,638,838, Cl. 138-30.000.

Guyot, Lucien, to Thomson-CSF. Picture tube with video output, picture taking system utilizing such tube and operating process of said tube. 4,701,792, 10-20-87, Cl. 358-111.000.

Guyot, Marcel: *See*—
  Cagan, Vladimir; and Guyot, Marcel, 4,649,495, Cl. 364-481.000.

Guyot, Morel D. Dendrite generator. 4,697,545, 10-6-87, Cl. 118-624.000.

Guzewska, Maria E.: *See*—
  Rzeszotarski, Waclaw J.; Hudkins, Robert L.; and Guzewska, Maria E., 4,657,899, Cl. 514-120.000.

Guzik, Nahum; Mangeym, Gennady; and Jones, James W., to Guzik Technical Enterprises. Motor speed control system. 4,680,516, 7-14-87, Cl. 318-326.000.

Guzik, Nahum E., to Guzik Technical Enterprises. Method and apparatus for control of current in a motor winding. 4,710,686, 12-1-87, Cl. 318-293.000.

Guzik Technical Enterprises: *See*—
  Guzik, Nahum; Mangeym, Gennady; and Jones, James W., 4,680,516, Cl. 318-326.000.
  Guzik, Nahum E., 4,710,686, Cl. 318-293.000.

Guzinski, James A.: *See*—
  Todd, Paul H., Jr.; and Guzinski, James A., 4,647,464, Cl. 426-423.000.

Guzman, Angel; and Muchowski, Joseph M., to Syntex (U.S.A.) Inc. Arachidonic acid analogs. 4,670,465, 6-2-87, Cl. 514-522.000.

Guzman, Angel: *See*—
  Muchowski, Joseph M.; Greenhouse, Robert J.; and Guzman, Angel, 4,707,473, Cl. 514-63.000.

Guzman, Eugenio: *See*—
  Buchwald, Henry; Guzman, Eugenio; and Wigness, Bruce D., 4,657,530, Cl. 604-9.000.

Guzowski, Steven J.: *See*—
  Kar, Nareshchandr [illegible] aiesky, William J.; and Guzowski, Steven J., 4,683,781, Cl. 76-108.00A.

Guzy, Raymond L.; and Wallace, Thomson H., to Hughes Tool Company. Electrical cable with fabric layer. 4,658,089, 4-14-87, Cl. 174-113.00R.

Guzzi, Alberto, to Hoechst Aktiengesellschaft. Process for the production of negative relief copies using photosensitive composition having 1,2-quinone diazide and quaternary ammonium compound. 4,696,891, 9-29-87, Cl. 430-325.000.

GV Medical, Inc.: *See*—
  Kosa, Nadhir B., 4,695,697, Cl. 219-121.0LZ.
  Moore, Gary L.; Neilson, Bruce H.; Kauphusman, James V.; and Sharrow, James S., 4,669,465, Cl. 128-303.100.

Gwash, Kevin: *See*—
  Reuss, Gerald; Gwash, Kevin; Gay, Charles; and Bissonette, Noel G., 4,664,665, Cl. 623-6.000.

Gwiazda, Ronald E. Apparatus for preserving and dispensing wine. 4,702,396, 10-27-87, Cl. 222-152.000.

Gwilliam, Tony S.; and Chu, Russell. Octet structures using tension and compression. 4,711,062, 12-8-87, Cl. 52-646.000.

Gwinn, T. S.; and Funk, Gary L., to Phillips Petroleum Company. Extrusion control process and apparatus. 4,671,908, 6-9-87, Cl. 264-40.700.

Gwinn, Mack W., Jr. Small arm magazine. 4,689,907, 9-1-87, Cl. 42-50.000.

Gwon, Seong T., to Goldstar Co., Ltd. Tape loading device for a video tape recorder. 4,692,823, 9-8-87, Cl. 360-85.000.

Gwon, Seong T., to Gold Star Co., Ltd. Reel-driving device for a videocassette recorder. 4,711,410, 12-8-87, Cl. 242-201.000.

Gwozdz, Adam A., to R. E. Phelon Company, Inc. Ignition for oil burner. 4,683,518, 7-28-87, Cl. 361-263.000.

Gwozdz, Peter S., to Advanced Micro Devices, Inc. Method for filling a trench in an integrated circuit structure without producing voids. 4,714,520, 12-22-87, Cl. 437-228.000.

Gwyn, John E.: *See*—
  Parker, Wesley A.; Dewitz, Thomas S.; Hinds, George P., Jr.; Gwyn, John E.; Bilgic, A. Haluk; and Hardesty, Donald E., 4,692,311, Cl. 422-144.000.

Gwyndann Group Limited: *See*—
  Stephen, Richard O.; and Ockleford, Colin D., 4,652,093, Cl. 350-500.000.

Gwynne, Jacob M. Metal framing system. 4,691,494, 9-8-87, Cl. 52-729.000.

Gyarmati, Sandor: *See—*

Gleim, Gunter; and Gyarmati, Sandor, 4,700,115, Cl. 318-254.000.

Gyenge, Andrew; Johnson, Michael D.; and Malmanger, John A., to Xytec Plastics, Inc. Collapsible storage bin. 4,674,647, 6-23-87, Cl. 220-6.000.

Gyi, Ko K., to Unisys Corp. Spacer means on floppy disks and associated techniques. 4,707,752, 11-17-87, Cl. 360-99.000.

Gyimesi, Janos, to Kozponti Valto-Es Hitelbank Rt. Innovacios Alap. Water supply system, energy conversion system and their combination. 4,671,742, 6-9-87, Cl. 417-131.000.

Gyires, Klara: *See—*

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Gyles, Colin, to Analogic Corporation. High-speed precision equivalent time sampling A/D converter and method. 4,654,584, 3-31-87, Cl. 324-76.00R.

Gyllang, Hans E.; Ekblom, Bjorn T.; Wesshagen, Vera V.; and Ericson, Kjell Y., to AB Pripps Bryggerier. Beverage product. 4,649,051, 3-10-87, Cl. 424-154.000.

Gyllstal, Lars-Goran L.: *See—*

Idegren, Gustav L.; Gyllstal, Lars-Goran L.; and Bartha, Istvan V., 4,714,029, Cl. 109-45.000.

Gymer, Geoffrey E.; and Richardson, Kenneth, to Pfizer Inc. Antifungal S-ethers of 2-aryl-3-mercapto-1-(1H-1,2,4-triazol-1-yl) propan-2-ols and corresponding sulfoxides and sulfones. 4,661,507, 4-28-87, Cl. 514-383.000.

Gyngell, Michael L., to Picker International Limited. Nuclear magnetic resonance imaging. 4,699,148, 10-13-87, Cl. 128-653.000.

Gyngell, Michael L.; and Nayler, Graham L., to Picker International, Ltd. Clean multiple echo magnetic resonance imaging using asymmetric sequences. 4,703,268, 10-27-87, Cl. 324-309.000.

Gyoda, Toshio: *See—*

Katsuno, Mitsuaki; Gyoda, Toshio; Tanaka, Hideki; Hurumoto, Kunihiro; Yoshitsugu, Noritada; and Matsui, Kenji, 4,682,790, Cl. 280-801.000.

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Gyokusen Kosan Kabushiki Kaisha: *See—*

Nishi, Okihiro, 4,671,790, Cl. 604-131.000.

Gyongyossy, Leslie L. Wedge type gate valves. 4,678,008, 7-7-87, Cl. 137-630.120.

Gyorgy, Makara, to Innovator Mernok Kisszovetkezet. Process for rearing and transporting arrangements of epiphytic plants. 4,691,472, 9-8-87, Cl. 47-58.000.

Gyori, Steven A., to Technicon Instruments Corporation. Multi-zone heater arrangement for controlling the temperature of a flowing medium. 4,706,736, 11-17-87, Cl. 165-30.000.

Gyr Zug AG: *See—*

Popovic, Radivoje; Solt, Katalin; and Berchier, Jean-Luc, 4,673,964, Cl. 357-27.000.

Popovic, Radivoje; Baltes, Heinrich P.; and Zajc, Tomislav, 4,677,380, Cl. 324-252.000.

Gyrex Corporation: *See—*

Polacek, Richard, 4,706,602, Cl. 118-63.000.

Gyro-Flex Corporation: *See—*

Escher, James C., 4,640,508, Cl. 272-128.000.

Escher, James C., 4,684,124, Cl. 272-128.000.

Escher, James C., 4,703,928, Cl. 272-128.000.

Gysel, Walter: *See—*

Gerber, Urs; Gerber, Erich; Hofer, Peter; Fischer, Erwin; Lusuardi, Werther; Gysel, Walter; Baggi, Roland; Rogg, Eduard; and Gut, Karl, 4,665,794, Cl. 89-36.020.

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Backelandt, Bernard; Gythiel, Jean-Claude; and Piquet, Daniel, 4,699,694, Cl. 204-28.000.

Gyugyi, Laszlo; and Gernhardt, Mark G., to Westinghouse Electric Corp. Switching technique for thyristor-switched capacitors to achieve network damping. 4,638,238, 1-20-87, Cl. 323-211.000.

Gyulay, Joseph M. Air freshener method. 4,647,428, 3-3-87, Cl. 422-4.000.

Gzik, Herbert: *See—*

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H. A. Schlatter AG: *See—*

Mosbacher, Albert, 4,647,750, Cl. 219-78.010.

Zollinger, Hans R., 4,649,253, Cl. 219-101.000.

H. B. Fuller Company: *See—*

Hume, Robert M., III, 4,702,496, Cl. 281-15.00R.

Hume, Robert M., III, 4,714,727, Cl. 524-271.000.

Krankkala, Paul L., 4,673,698, Cl. 524-47.000.

Krankkala, Paul L., 4,677,145, Cl. 524-48.000.

Morin, Sandra K., 4,661,532, Cl. 521-167.000.

H. B. Zachery Corporation: *See—*

Marten, Edward N., 4,662,684, Cl. 299-1.000.

H. Bowen Company, Inc.: *See—*

Bowen, Harry E., 4,655,318, Cl. 182-90.000.

H-C Industries, Inc.: *See—*

Corcoran, Michael E.; Schetzsle, John; and Stopher, James, 4,666,053, Cl. 215-252.000.

Whitney, Ralph H.; Wilde, Sheldon L.; Schetzsle, John R.; and Denman, Daniel G., 4,664,280, Cl. 215-350.000.

Wilde, Sheldon L.; and Morton, Hugh V., Jr., 4,674,64 215-252.000.

H.F. Hanscom & Company, Inc.: *See—*

Hanscom, John F., 4,705,080, Cl. 140-93.00A.

H. F. Stollberg Maschinenfabrik, GmbH: *See—*

Dorsch, Manfred; and Heinfling, Josef, 4,665,361, Cl. 324-207

H. Finger, Firma: *See—*

Finger, Hansjorg, 4,702,612, Cl. 368-10.000.

H. G. Kalish Inc.: *See—*

Lewis, Graham L., 4,677,283, Cl. 235-98.00C.

H-G Toys Inc.: *See—*

Blum, Seymour, 4,644,630, Cl. 29-453.000.

H. H. Robertson Company: *See—*

Albrecht, Raymond E.; Gartner, Rodney W.; Hazen, John O.; Lindner, Robert G., 4,656,795, Cl. 52-126.600.

Hazen, John O., 4,656,798, Cl. 52-221.000.

H. Ikeuchi & Co., Ltd.: *See—*

Iwamura, Yoshinari; Okimoto, Katsunori; Teshima, To Miyahara, Shinobu; Uchida, Shigetaka; Sera, Taizo; and Oz Koichi, 4,646,977, Cl. 239-590.500.

H. J. Heinz Company: *See—*

Fuller, John F., Jr., 4,654,222, Cl. 426-640.000.

H. J. Langen & Sons Limited: *See—*

Langen, Jacobus J., 4,680,832, Cl. 17-25.000.

Langen, Marinus J. M.; and Guttinger, Peter, 4,642,9 53-564.000.

Langen, Marinus J. M.; and Guttinger, Peter, 4,688,2 53-529.000.

H. Krantz GmbH & Co.: *See—*

Cramer, Hans, 4,680,839, Cl. 26-89.000.

Grafen, Karl; and Schiffers, Theo, 4,694,526, Cl. 15-306.00

Kehlenbach, Guenther, 4,715,199, Cl. 68-198.000.

Kehlenbach, Gunther, 4,648,251, Cl. 68-15.000.

Schiffers, Theo, 4,656,756, Cl. 34-25.000.

von Ondarza, Leon, 4,706,315, Cl. 8-155.100.

H. Krieghoff GmbH: *See—*

Brass, Walter, 4,646,459, Cl. 42-47.000.

H. Lundbeck A/S: *See—*

Bogeso, Klaus P., 4,650,884, Cl. 549-467.000.

Bogeso, Klaus P., 4,684,650, Cl. 514-252.000.

Lassen, Niels; Bogeso, Klaus P.; and Jensen, Klaus G., 4,65 Cl. 564-56.000.

Perregaard, Jens K., 4,710,500, Cl. 514-254.000.

H. Maihak AG: *See—*

Nestler, Volker; and Olsowski, Wolfgang, 4,641,97 356-418.000.

H. Putsch GmbH & Comp.: *See—*

Bittner, Hans-Joachim, 4,674,168, Cl. 29-402.080.

Bittner, Hans-Joachim, 4,683,790, Cl. 83-356.300.

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Anderson, Raymond L., 4,650,571, Cl. 210-86.000.

H & S Machine & Supply Co., Inc.: *See—*

Hipkins, Edward C., Sr.; Locotos, Frank M.; and Comfort, Jos D., 4,655,645, Cl. 405-261.000.

Hipkins, Edward C., Sr.; and Locotos, Frank M., 4,679,967 405-288.000.

Hipkins, Edward C., Sr.; and Locotos, Frank M., 4,704,051 405-261.000.

H. Stoll GmbH & Co.: *See—*

Cottenceau, Remi; and Fischer, Francois, 4,645,248, Cl. 289-2

Goller, Ernst; and Staiger, Eugen, 4,649,721, Cl. 66-115.000.

Goller, Ernst; and Walker, Fritz, 4,700,553, Cl. 66-146.00R.

Goller, Ernst; Herman, Udo; Muller, Adam; and Walker, F 4,703,630, Cl. 66-64.000.

Goller, Ernst; Muller, Adam; and Hermann, Udo, 4,711,10 66-64.000.

Merkh, Ernst, 4,646,544, Cl. 66-149.00R.

Muller, Adam; and Goller, Ernst, 4,679,413, Cl. 66-125.00R.

Muller, Adam; and Goller, Ernst, 4,680,946, Cl. 66-64.000.

Ploppa, Jurgen; and Schmid, Franz, 4,715,198, Cl. 66-75.200.

Schmid, Franz, 4,686,839, Cl. 66-75.200.

Schmidt, Henning; Nedele, Walter; and Schmodde, Herm 4,713,948, Cl. 66-106.000.

Schmodde, Hermann, 4,643,003, Cl. 66-78.000.

Seitz, Herbert; and Frosch, Eugen, 4,667,489, Cl. 66-168.000.

H. U. Ramseier: *See—*

Ramseier, Hans-Ulrich; and Brechbuhler, Fritz, 4,715,314 118-631.000.

H. Weidmann AG: *See—*

Isler, Erwin; and Wey, Hans R., 4,664,573, Cl. 411-5.000.

H. Wohlenberg KG GmbH & Co.: *See—*

Hartlage, Jurgen, 4,648,772, Cl. 414-115.000.

Strate, Hans; and Simon, Hans-Dieter, 4,700,453, Cl. 29-568.0

Ha, Eng-Chong: *See—*

Chang, Donald C. D.; and Ha, Eng-Chong, 4,635,063 342-380.000.

Ha, Jin S. Safety tire valve for controlling speed of vehicle 4,657 4-14-87, Cl. 152-415.000.

Ha, Jung Yong, to Kia Motors Corp. Automatic control circu brake control devices. 4,684,177, 8-4-87, Cl. 303-100.000.

Ha, Kong, to Ontario Research Foundation. Diesel particulate 4,685,291, 8-11-87, Cl. 60-286.000.

Haack, John L., to First Brands Corporation. Oil-in-alcohol microe sion containing oil-soluble corrosion inhibitor in antifreeze 4,687 8-18-87, Cl. 252-75.000.

- Haack, John L.: *See*—
  - Goddard, Errol D.; Haack, John L.; and Leung, Pak S., 4,704,220, Cl. 252-75.000.
- Haack, Peggy J. Bowling glove. 4,638,511, 1-27-87, Cl. 2-161.00A.
- Haacke, E. Mark; and Bearden, Francis H., to Picker International, Inc. Magnetic resonance imaging method. 4,678,996, 7-7-87, Cl. 324-309.000.
- Haacke, E. Mark, to Picker International, Inc. Generalized reconstruction technique. 4,701,706, 10-20-87, Cl. 324-309.000.
- Haacke, E. Mark, to Picker International, Inc. Magnetic resonance reconstruction and scanning techniques using known information, constraints, and symmetry relations. 4,716,368, 12-29-87, Cl. 324-309.000.
- Haacker, Heinz, and Wensing, Helmut, to MAN Gutehoffnungshutte GmbH. Rotary tube cooler construction. 4,711,297, 12-8-87, Cl. 165-88.000.
- Haacon Hebetechnik GmbH: *See*—
  - Riedl, Reinhold, 4,706,936, Cl. 254-89.00R.
- Haaf, Friedhelm; and Renverse, Mutien-Marie, to Krupp Polysius AG. Coke oven door. 4,676,873, 6-30-87, Cl. 202-242.000.
- Haaf, William R.: *See*—
  - Bates, Gary M.; Haaf, William R.; and Ting, Sai-Pei, 4,664,696, Cl. 525-68.000.
- Haag, Donald L. Spring disc. 4,711,434, 12-8-87, Cl. 267-161.000.
- Haag, Emil: *See*—
  - Neumann-Henneberg, Wolf; Futterknecht, Kuno; Stengel, Gerhard; Haag, Emil; and Schutzbach, Bernd, 4,653,179, Cl. 29-622.000.
- Haag, Gottlob; Hagele, Karl-Heinz; and Harer, Helmut, to Robert Bosch GmbH. High-voltage insulator. 4,634,806, 1-6-87, Cl. 174-211.000.
- Haag, Gottlob: *See*—
  - Dettling, Hubert; Eisele, Hermann; Haag, Gottlob; Hagele, Karl-Heinz; Linder, Ernst; and Polach, Wilhelm, 4,649,703, Cl. 60-275.000.
  - Dettling, Hubert; Haag, Gottlob; Hagele, Karl-Heinz; Leonhard, Rolf; and Polach, Wilhelm, 4,693,078, Cl. 60-295.000.
- Haag, Helmut; and Nothofer, Klaus, to AEG Kabel Aktiengesellschaft. Optical cable having a plurality of basic elements arranged in a common sheath. 4,696,541, 9-29-87, Cl. 350-96.230.
- Haag, Herbert, to ITT Industries, Inc. Electrical connector containing an annular shield and method of manufacture thereof. 4,655,533, 4-7-87, Cl. 339-143.00R.
- Haag, Horst G.: *See*—
  - Zerpner, Dieter; Streck, Roland; and Haag, Horst G., 4,681,961, Cl. 556-428.000.
- Haag, Juergen: *See*—
  - Ali, Sameir A. H.; and Haag, Juergen, 4,696,768, Cl. 252-628.000.
- Haag, Ronald H.; and Schlaps, Edgar H., to General Motors Corporation. Vehicle daytime running lamps. 4,684,819, 8-4-87, Cl. 307-10.00R.
- Haag, Werner O.: *See*—
  - Bell, Weldon K.; Haag, Werner O.; Kirker, Garry W.; and Klocke, Donald J., 4,686,313, Cl. 585-327.000.
  - Bell, Weldon K.; and Haag, Werner O., 4,714,787, Cl. 568-697.000.
- Haag, Wilbur L., Jr.: *See*—
  - Daugirda, Paul G.; and Haag, Wilbur L., Jr., 4,676,199, Cl. 122-17.000.
- Haag, William G.: *See*—
  - Shortt, Alexandra B.; and Haag, William G., 4,678,778, Cl. 514-141.000.
- Haaga, John R. Universal biopsy needle. 4,708,147, 11-24-87, Cl. 128-753.000.
- Haage, Manfred: *See*—
  - Fischer, Artur; Onasch, Jurgen; and Haage, Manfred, 4,640,654, Cl. 411-55.000.
  - Richter, Hanno; Mirsberger, Helmut; Uhlig, Rainer; Haage, Manfred; and Uebel, Philipp, 4,708,551, Cl. 411-32.000.
- Haagensen, Duane B.; Moses, Darcy C.; and Smith, Leonard S., to Woodhead, John F., III. Apparatus and method for processing dielectric materials with microwave energy. 4,714,812, 12-22-87, Cl. 219-10.55A.
- Haagexport, B.V.: *See*—
  - Freyer, Hendrik, 4,697,312, Cl. 24-30.50S.
- Haake, Rainer: *See*—
  - Bunk, Axel; Eichelbronner, Gottfried; Haake, Rainer; Stadler, Karl; and Gaugel, Manfred, 4,659,318, Cl. 445-54.000.
- Haake, Werner. Safety device for garage doors and the like. 4,697,676, 10-6-87, Cl. 192-8.00R.
- Haaland, Per, to Mehren Rubber A/S. Means for sealing the gap between two axially displaceable sealing surfaces. 4,690,414, 9-1-87, Cl. 277-207.00A.
- Haanschoten, Jozef G. Coupling member for wheel bolts of wheel supports. 4,703,977, 11-3-87, Cl. 301-124.00R.
- Haapamaki, Pertti, and Tuomi, Alpo, to Rauma-Repola Oy. Method of washing cellulosic pulp submerged in washing liquid. 4,664,749, 5-12-87, Cl. 162-56.000.
- Haapanen, Goran: *See*—
  - Broden, Gert; and Haapanen, Goran, 4,653,731, Cl. 266-48.000.
- Haapoja, Vesa: *See*—
  - Simola, Markku A.; and Haapoja, Vesa, 4,634,521, Cl. 209-17.000.
- Haar, Hans-Peter: *See*—
  - Edelmann, Hermann; Pasch, Manfred; Mann, Karlheinz; Sattler, Stephan; and Haar, Hans-Peter, 4,676,952, Cl. 422-72.000.
- Haar, Thomas, to Alfons Haar Maschinenbau GmbH & Co. KG. Feeder for introducing and feeding plates into a machine tool. 4,691,817, 9-8-87, Cl. 198-468.200.
- Haar, Wolfgang: *See*—
  - Gilch, Heinz G.; and Haar, Wolfgang, 4,707,515, Cl. 524-506.000.
- Haard, Norman F.; and Patel, Thakor R., to Canadian Patents and Development Limited. Bacterial enzyme used as cheese ripening aid. 4,690,826, 9-1-87, Cl. 426-36.000.
- Haardt, Henry; and Magdon, John, to International Hydron Corporation. Tricurve optical metal master mold and method of making. 4,681,295, 7-21-87, Cl. 249-135.000.
- Haarer, Steven R., to Cooper Industries. Support bracket assembly for window covering. 4,662,596, 5-5-87, Cl. 248-251.000.
- Haarkotter, Hermann: *See*—
  - Muhlhahn, Dieter; Marsella, Gino; Detzner, Friedhelm; Simons, Dieter; Schafer, Horst-Dieter; and Haarkotter, Hermann, 4,660,811, Cl. 267-141.100.
- Haarman & Reimer GmbH: *See*—
  - Nienhaus, Jurgen; and Hopp, Rudolf, 4,664,755, Cl. 203-59.000.
- Haarman, Walter: *See*—
  - Hauel, Norbert; Austel, Volkhard; Heider, Joachim; Reiffen, Manfred; Diederen, Willi; and Haarman, Walter, 4,699,909, Cl. 514-254.000.
- Haarmann & Reimer GmbH: *See*—
  - Bruning, Jurgen; Emberger, Roland; Hopp, Rudolf; Kopsel, Manfred; Sand, Theodor; and Werkhoff, Peter, 4,647,662, Cl. 544-5.000.
  - Bruning, Jurgen; Emberger, Roland; Hopp, Rudolf; and Sand, Theodor, 4,710,392, Cl. 426-534.000.
  - Emberger, Roland; Kopsel, Manfred; Bruning, Jurgen; Hopp, Rudolf; and Sand, Theodor, 4,654,168, Cl. 252-522.00R.
- Haarmann, Walter; and Bremer, Hans-Joachim, to Barry Wright Corporation. Constant angle shaft coupling. 4,705,489, 11-10-87, Cl. 464-69.000.
- Haarmann, Walter: *See*—
  - Nickl, Josef; Muller, Erich; Narr, Benthold; Ballhause, Helmut; and Haarmann, Walter, 4,678,792, Cl. 514-307.000.
  - Roch, Josef; Muller, Erich; Narr, Berthold; Nickl, Josef; Haarmann, Walter; and Weisenberger, Johannes M., 4,690,923, Cl. 514-222.000.
- Haarsma, John: *See*—
  - Chabala, Leonard V.; Haarsma, John; O'Leary, Raymond P.; Roman, Christopher D.; and Tobin, Thomas J., 4,690,780, Cl. 252-572.000.
- Haas, Carroll J., II. Ball valve. 4,684,105, 8-4-87, Cl. 251-150.000.
- Haas, Charles J.; Timman, Dale; and Stolzenberg, John H., to Shopsmith, Inc. Saw fence. 4,658,687, 4-21-87, Cl. 83-438.000.
- Haas, Elmer J., Jr. Device for attaching an identification tag to an ear or the like of an animal. 4,672,966, 6-16-87, Cl. 128-330.000.
- Haas, Erich: *See*—
  - Bieber, Oswald; Haas, Erich; Henglein, Rudolf; and Richter, Bernd, 4,693,277, Cl. 138-89.000.
  - Gugel, Georg; and Haas, Erich, 4,672,852, Cl. 73-622.000.
- Haas, Erwin: *See*—
  - Rudenauer, Werner; Furst, Wilhelm; and Haas, Erwin, 4,658,725, Cl. 102-229.000.
- Haas, Franz, Jr.: *See*—
  - Haas, Franz, Sr.; Haas, Franz, Jr.; and Haas, Johann, 4,694,741, Cl. 99-354.000.
  - Haas, Franz, Sr.; Haas, Franz, Jr.; and Haas, Johann, 4,710,117, Cl. 425-126.00R.
- Haas, Franz, jun.: *See*—
  - Haas, Franz, sen.; Haas, Franz, jun.; and Haas, Johann, 4,669,603, Cl. 198-432.000.
- Haas, Franz, sen.; Haas, Franz, jun.; and Haas, Johann, to Franz Haas Waffelmaschinen Industriegesellschaft m.b.H. Apparatus for singling filled wafer slices. 4,669,603, 6-2-87, Cl. 198-432.000.
- Haas, Franz, Sr.; Haas, Franz, Jr.; and Haas, Johann, to Franz Haas Waffelmaschinen Industriegesellschaft m.b.H. Apparatus for making rolled wafer cones. 4,694,741, 9-22-87, Cl. 99-354.000.
- Haas, Franz, Sr.; Haas, Franz, Jr.; and Haas, Johann, to Franz Haas Waffelmaschinen Industriegesellschaft m.b.H. Apparatus for placing confectionery wafer pieces into molding depressions of casting molds. 4,710,117, 12-1-87, Cl. 425-126.00R.
- Haas, Fritz: *See*—
  - Schiemann, Roland; and Haas, Fritz, 4,671,649, Cl. 355-51.000.
- Haas, Hans, to Dragerwerk A.G. Lung-controlled diaphragm valve. 4,715,371, 12-29-87, Cl. 128-204.260.
- Haas, Hans: *See*—
  - Ressel, Herbert; Haas, Hans; and Krause, Johannes, 4,642,224, Cl. 423-321.00R.
- Haas, Jan T.; and Hadwin, Robin-Leslie, to Messerschmitt-Bolkow-Blohm GmbH. Controllable diffuser for an air intake of an aircraft. 4,641,678, 2-10-87, Cl. 137-15.100.
- Haas, Johann: *See*—
  - Haas, Franz, sen.; Haas, Franz, jun.; and Haas, Johann, 4,669,603, Cl. 198-432.000.
  - Haas, Franz, Sr.; Haas, Franz, Jr.; and Haas, Johann, 4,694,741, Cl. 99-354.000.
  - Haas, Franz, Sr.; Haas, Franz, Jr.; and Haas, Johann, 4,710,117, Cl. 425-126.00R.
- Haas, Klaus: *See*—
  - Bung, Richard; Haas, Klaus; Laun, Martin; Schmidt, Franz; and Welzel, Gerhard, 4,654,396, Cl. 524-401.000.

Haas, Klaus-Arne: *See*—

Teuchert, Eberhardt; Haas, Klaus-Arne; and Gerwin, Helmut, 4,695,423, Cl. 376-265.000.

Haas, Lee C.; and Loeb, Mitchell L., to International Business Machines Corporation. Method and apparatus for deskewing WDM data transmitted through a dispersive medium. 4,677,618, 6-30-87, Cl. 371-1.000.

Haas, Ludwig; and Moosmang, Klaus, to Messerschmitt-Bolkow-Blohm GmbH. Grooved horn radiator with mode coupler. 4,675,689, 6-23-87, Cl. 343-786.000.

Haas, Max, to Inventio AG. Door drive for doors of elevator cars. 4,711,323, 12-8-87, Cl. 187-52.00R.

Haas, Michael D.: *See*—

Pfeiffer, Arthur M.; Tacklind, Christopher A.; Haas, Michael D.; and Zeiszler, James M., 4,667,959, Cl. 273-149.00R.

Haas, Paul A.; Fowler, Victor L.; and Lloyd, Milton H., to United States of America, Energy. Preparation of nuclear fuel spheres by flotation-internal gelation. 4,663,093, 5-5-87, Cl. 264-0.500.

Haas, Peter; Barnes, James M.; and Goyert, Wilhelm, to Bayer Aktiengesellschaft. Bismorpholines, a process for their preparation and their use for protection against hydrolysis. 4,639,478, 1-27-87, Cl. 524-97.000.

Haas, Peter; Freitag, Hans-Albrecht; Avar, Geza; Sommerfeld, Claus-Dieter; and Illger, Hans-Walter, to Bayer Aktiengesellschaft. Process for the production of polyisocyanate addition products and composite polyisocyanate addition products. 4,644,017, 2-17-87, Cl. 521-129.000.

Haas, Peter; Weber, Hans-Ulrich; Sommerfeld, Claus-Dieter; Giersig, Manfred; and Wiedermann, Rolf, to Bayer Aktiengesellschaft. Polyester polyols, a process for their production and their use in the isocyanate polyaddition process. 4,681,903, 7-21-87, Cl. 521-167.000.

Haas, Peter, to Bayer Aktiengesellschaft. Cycloacetals. 4,695,630, 9-22-87, Cl. 544-75.000.

Haas Pharmaceuticals, Inc.: *See*—

Haas, Robert T., 4,684,666, Cl. 514-557.000.

Haas, Raimund; Engel, Dieter; and Helwerth, Rainer, to Hoechst Aktiengesellschaft. Aqueous functional fluids based on polymers. 4,668,410, 5-26-87, Cl. 252-49.300.

Haas, Rainer J. Electrodynamic loudspeaker having omnidirectional sound emission. 4,665,550, 5-12-87, Cl. 381-182.000.

Haas, Richard M. Switch protection mechanism. 4,707,618, 11-17-87, Cl. 307-64.000.

Haas, Robert T., to Haas Pharmaceuticals, Inc. Stabilized liquid analgesic compositions. 4,684,666, 8-4-87, Cl. 514-557.000.

Haas, Roger A.; and Henesian, Mark A., to United States of America, Energy. Electro-optic harmonic conversion to switch a laser beam out of a cavity. 4,649,544, 3-10-87, Cl. 372-22.000.

Haas, Roland: *See*—

Brandenstein, Manfred; Edelmann, Ludwig; Haas, Roland; Herrmann, Gerhard; and Hans, Rudiger, 4,643,700, Cl. 474-112.000.

Brandenstein, Manfred; Haas, Roland; and Hans, Rudiger, 4,673,301, Cl. 384-428.000.

Brandenstein, Manfred; Klupfel, Norbert; Pape, Gebhard; Haas, Roland; and Schmiechen, Rolf, 4,679,458, Cl. 74-458.000.

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Haas, Werner; Knuepfer, Wolfgang; and Pfeiler, Manfred, to Siemens Aktiengesellschaft. Non-invasive method and apparatus for in situ disintegration of body calculi. 4,682,600, 7-28-87, Cl. 128-328.000.

Haas, Werner: *See*—

Haendle, Joerg; and Haas, Werner, 4,663,773, Cl. 378-99.000.

Haase, Axel: *See*—

Frahm, Jens; Haase, Axel; Matthaei, Dieter; Haenicke, Wolfgang; and Merboldt, Klaus-Dietmar, 4,707,658, Cl. 324-309.000.

Haase, Franklin D.: *See*—

Westfall, Geoffrey J.; and Haase, Franklin D., 4,716,032, Cl. 424-45.000.

Haase, Gerald A. Vacuum cleaner attachment. 4,715,088, 12-29-87, Cl. 15-415.00A.

Haase, Jaroslav, to Ciba-Geigy Corporation. Quaternary ammonium salts of diepoxides and diamines, their preparation and use. 4,668,273, 5-26-87, Cl. 71-67.000.

Haase, Thomas A.: *See*—

Pesa, Frederick A.; and Haase, Thomas A., 4,652,677, Cl. 562-522.000.

Haase, Wayne C. Planter monitor system. 4,710,757, 12-1-87, Cl. 340-684.000.

Haaser, Michael J., to Advanced Manufacturing Systems, Incorporated. Vibratory feeder arrangement. 4,700,827, 10-20-87, Cl. 198-771.000.

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Marshall, James W.; Haaser, Michael J.; Vanicky, Alex A.; and Podhorniak, Gary S., 4,687,093, Cl. 198-465.200.

Haastrup, Henrik K., to Clairol Incorporated. Hair dryer heater section providing uniform outlet air temperature distribution. 4,647,757, 3-3-87, Cl. 219-370.000.

Haavisto, John R., to Northrop Corporation. Resonant waveguide laser gyro with a switched source. 4,661,964, 4-28-87, Cl. 372-94.000.

Haavisto, John R.: *See*—

Lawrence, Anthony W.; Haavisto, John R.; and Williams, Timothy, 4,674,881, Cl. 356-350.000.

Segre, Joseph P.; and Haavisto, John R., 4,658,401, Cl. 372-26.000.

Haba, Shinji, to Kabushiki Kaisha Tokai Rika Denki Seisakusho. Heater-equipped outer rearview mirror. 4,715,698, 12-29-87, Cl. 350-588.000.

Haba, Tsuneo: *See*—

Yoshiki, Naokazu; Saito, Yutaka; and Haba, Tsuneo, 4,712,407, Cl. 72-68.000.

Habarou, Georges; Etienne, Jacques; and Clebant, Jean-Claude, to Societe Europeenne de Propulsion. Abradable turbine rings and turbines thus obtained. 4,669,954, 6-2-87, Cl. 415-174.000.

Habba, Saad: *See*—

Leevy, Carroll M.; McNeil, Gloria; and Habba, Saad, 4,675,284, Cl. 435-6.000.

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Coughlin, Thomas M.; Habbal, Fawwaz; and Lee, Jane H., 4,700,248, Cl. 360-103.000.

Habecker, John W.; and Black, Charles E., III, to Indak Manufacturing Corp. Pushbutton electrical switch having a flaring contact loosely rotatable on a spring-biased eyelet. 4,691,086, 9-1-87, Cl. 200-159.00R.

Habecker, John W.: *See*—

Raab, Andrew F.; and Habecker, John W., 4,710,60[illegible], Cl. 200-302.300.

Habel, Gernot: *See*—

Fingerle, Dieter; and Habel, Gernot, 4,643,144, Cl. 123-90.390.

Habel, Paul A., Jr.; and Kulczycki, Elaine S., to Borg-Warner Corporation. Minimum complexity vibration damper. 4,679,678, 7-14-87, Cl. 192-106.200.

Haber, Edgar: *See*—

Goldstein, Arthur L.; Haber, Edgar; and Mandle, Robert J., 4,661,224, Cl. 204-182.300.

Haber, Terry M., to Habley Medical Technology Corporation. Single circuit elastofluidic sphincter. 4,634,443, 1-6-87, Cl. 623-14.000.

Haber, Terry M., to Habley Medical Technology Corporation. Disposable cartridge assembly for hypodermically implanting a genitourinary prosthesis. 4,686,962, 8-18-87, Cl. 128-1.00R.

Haber, Terry M., to Habley Medical Technology Corporation. Implantable blood flow and occlusion pressure sensing sphincter system. 4,709,690, 12-1-87, Cl. 128-1.00R.

Haber, Terry M.; Smedley, William H.; and Foster, Clark B., to Habley Medical Technology Corporation. Anti-needle strike and anti-drug abuse syringe. 4,710,170, 12-1-87, Cl. 604-110.000.

Haber, Terry M.; Foster, Clark B.; and Lewis, John A., Jr., to Habley Medical Technology Corporation. Snap-on vernier syringe. 4,710,179, 12-1-87, Cl. 604-211.000.

Habereder, Peter-Paul: *See*—

Bayerlein, Friedrich; Habereder, Peter-Paul; Keramaris, Nikolaos; Kottmair, Nikolaus; and Kuhn, Manfred, 4,645,8[illegible], Cl. 536-17.100.

Haberer, Johann: *See*—

Bauer, Karlheinz; Haberer, Johann; and Arzberger, Maximilian M., 4,697,947, Cl. 403-14.000.

Haberl, Fritz, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Method and circuit for processing the signals of an earth-horizon sensor in an earth satellite. 4,665,314, 5-12-87, Cl. 250-338.000.

Haberl, Fritz, to Messerschmitt-Bolkow-Blohm GmbH. Method and apparatus for reading out an opto-electric detector. 4,672,220, 6-9-87, Cl. 250-578.000.

Haberl, Fritz, to Messerschmitt-Bolkow-Blohm GmbH. Apparatus for generating a signal providing information regarding a radiating source, especially an infrared source. 4,710,619, 12-1-87, Cl. 250-203.00R.

Haberland, Detlef; Langenwalter, Michael; Panzer, Klaus; Rosen, Hans G.; Spaeter, Lothar; Spaeth, Werner; Seibert, Bernd; and Haltenorth, Helmut, to Siemens Aktiengesellschaft. Opto-electronic module housing. 4,707,067, 11-17-87, Cl. 350-96.200.

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Haberland, Karlheinz, to Wiederaufarbeitungsanlage Karlsruhe Betriebsgesellschaft mbH. Sieve-plate column for counterflow extraction. 4,686,089, 8-11-87, Cl. 422-159.000.

Haberland, Siegfried, to Robert Bosch GmbH. Fuel injection pump for internal combustion engines. 4,679,993, 7-14-87, Cl. 417-490.000.

Haberle, Fritz; Motting, Gotz; Munsinger, Walter; and Waschitschek, Franz, to Daimler-Benz Aktiengesellschaft. Lock for pivotable hoods or the like for motor vehicles. 4,671,548, 6-9-87, Cl. 292-216.000.

Habermann, Clarence E.; and Garrett, David S., to Dow Chemical Company, The. Anticorrosive coated rectifier metals and their alloys. 4,668,347, 5-26-87, Cl. 204-33.000.

Habermann, Heinz P., to Ford Motor Company. Intermediate bearing for the propeller shaft of a motor vehicle. 4,639,150, 1-27-87, Cl. 384-536.000.

Habermann, Wolfgang; Pommer, Ernst-Heinrich; Hammes, Peter; Engelhardt, Hubert; Geiger, Wolfgang; Simmler, Werner; and Huber, Guenther, to BASF Aktiengesellschaft. Fuel cell. 4,670,3[illegible], 6-2-87, Cl. 429-33.000.

Habermann, Wolfgang; Hammes, Peter; Engelhardt, Hubert; Geiger, Wolfgang; Haltrich, Walter; and Simmler, Werner, to BASF Aktiengesellschaft. Oxidative treatment of wastewaters. 4,696,749, 9-2[illegible], Cl. 210-721.000.

Habermann, Wolfgang: *See*—

Weiss, Franz-Josef; Habermann, Wolfgang; Hammes, Peter; Frommer, Elmar; Thomas, Erwin; and Thoma, Peter, 4,645,579, Cl. 204-182.400.

Habfast, Karl-Eugen; Kappus, Gunter; Rache, Horst; and Winkler, Bernd. Process and apparatus for heating ionizing strips. 4,641,0[illegible], 2-3-87, Cl. 250-288.000.

Habia Cable SA: *See*—
Battais, Alain, 4,663,095, Cl. 264-45.900.
Habib, Magdi, to American Hospital Supply Corp. Directing cannula for an optical diagnostic system. 4,688,554, 8-25-87, Cl. 128-4.000.
Habib, Pierre: *See*—
Luong, Minh P.; and Habib, Pierre, 4,688,360, Cl. 52-166.000.
Habich, Adolph B.; and Hunt, Ronald E., to International Business Machines Corporation. Floating document throat. 4,635,919, 1-13-87, Cl. 271-22.000.
Habich, Adolph B.; and Hunt, Ronald E., to International Business Machines Corporation. Envelope hopper for feed and delivery. 4,640,502, 2-3-87, Cl. 271-4.000.
Habich, Michael P.: *See*—
Sudol, Walter J.; and Habich, Michael P., 4,691,927, Cl. 277-26.000.
Habicht, Siegfried: *See*—
Jager, Tilo; Tonsmann, Armin; Habicht, Siegfried; and Hocker, Eitel, 4,646,408, Cl. 29-243.500.
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Habig, Peter C., and Daugherty, Ronald R., to Habig, Peter C. Waste oil drain collector and storage container kit. 4,673,081, 6-16-87, Cl. 206-223.000.
Habitzreiter, Richard K.; Pinney, Robert V., Jr.; and Thomas, Tony C., to Recognition Equipment Incorporated. Video filter for video format unit. 4,637,059, 1-13-87, Cl. 382-54.000.
Habley Medical Technology Corporation: *See*—
Haber, Terry M., 4,634,443, Cl. 623-14.000.
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Haber, Terry M.; Smedley, William H.; and Foster, Clark B., 4,710,170, Cl. 604-110.000.
Haber, Terry M.; Foster, Clark B.; and Lewis, John A., Jr., 4,710,175, Cl. 604-211.000.
Haboeck, Adolf: *See*—
Gaul, Hartmut; Mickal, Hermann; and Haboeck, Adolf, 4,692,632, Cl. 307-66.000.
Habrich, Reiner; Bauer, Manfred; and Reiter, Alois, to Siemens Aktiengesellschaft. Metering pump. 4,715,795, 12-29-87, Cl. 417-568.000.
Habu, Kazutaka: *See*—
Sato, Noboru; Habu, Kazutaka; and Abe, Sanae, 4,710,434, Cl. 428-678.000.
Habu, Nobuo, to Toyota Jidosha Kabushiki Kaisha. Method for indicating speed change operations to be performed by a driver of a car. 4,677,556, 6-30-87, Cl. 364-424.100.
Habu, Yasuhiro: *See*—
Nakato, Hakaru; Bessho, Nagayasu; Nozaki, Tsutomu; Habu, Yasuhiro; and Kimura, Tomoaki, 4,635,703, Cl. 164-443.000.
Nakato, Hakaru; Nozaki, Tsutomu; Kinoshita, Katsuo; Habu, Yasuhiro; Ohnuma, Hiroaki; Ohmiya, Shigeru; and Kimura, Tomoaki, 4,673,024, Cl. 164-431.000.
Habuto, Akinaka: *See*—
Ishida, Kunio; Saito, Satoshi; Habuto, Akinaka; Murata, Tadahiko; Oiso, Hisayoshi; Joyama, Norio; and Fujimoto, Kazuhiro, 4,655,125, Cl. 99-355.000.
Hacetoglu, Ararat; Kodatsky, William K.; and Gonzales, Ray O., Jr., to American Cyanamid Company. Method for treating carbide-based desulfurizing reagents for injection into molten iron. 4,645,130, 2-24-87, Cl. 241-16.000.
Hach, Clifford C., to Hach Company. Digestion process. 4,645,745, 2-24-87, Cl. 436-114.000.
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Andersen, Marinus L., 4,715,710, Cl. 356-246.000.
Hach, Clifford C., 4,645,745, Cl. 436-114.000.
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Hache, Jean C.; and Servant, Mireille, to Essilor International (Compagnie Generale d'Optique). Procedure and device for automatic refractometric measurement of the degree of ametropia of a human eye. 4,673,265, 6-16-87, Cl. 351-217.000.
Hachimori, Takeshi, to Sony Corporation. Reference voltage generating circuit. 4,638,239, 1-20-87, Cl. 323-281.000.
Hachimura, Kenji: *See*—
Tani, Zempei; Hachimura, Kenji; and Kawai, Noboru, 4,689,540, Cl. 318-608.000.
Hachino, Hiroaki: *See*—
Kurihara, Yasutoshi; Soga, Tasao; Hachino, Hiroaki; Miyata, Kenji; Okamura, Masahiro; Kobayashi, Fumiyuki; and Daikoku, Takahiro, 4,649,990, Cl. 165-80.400.
Ooue, Michio; Wakui, Yoko; and Hachino, Hiroaki, 4,651,191, Cl. 357-71.000.
Hachiro, Nobuaki, to Nissin Kogyo Kabushiki Kaisha. Tandem type master cylinder. 4,651,529, 3-24-87, Cl. 60-562.000.
Hachiro, Nobuaki: *See*—
Takeuchi, Hiroo; and Hachiro, Nobuaki, 4,669,268, Cl. 60-591.000.
Hachisu, Kiyoji, to Ichikoh Engineering, Ltd. Apparatus for upward and downward movement of an arm in a robot system for taking out injection molded and die casting products. 4,682,930, 7-28-87, Cl. 414-589.000.
Hachmann, Klaus: *See*—
Disch, Karlheinz; Hachmann, Klaus; and Pagel, Juergen, 4,661,523, Cl. 514-635.000.
Hachmuth, Henry K.; and Hovis, Keith W., to Phillips Petroleum Company. Catalytic alkylation process and apparatus. 4,677,244, 6-30-87, Cl. 585-701.000.
Hack, Albert: *See*—
Heimbrodt, Klaus-J.; Motting, Gotz; and Hack, Albert, 4,706,738, Cl. 165-98.000.
Hack, Helmuth: *See*—
Metzger, Carl; Eue, Ludwig; and Hack, Helmuth, 4,639,526, Cl. 548-140.000.
Hack, Kurt: *See*—
Dupper, Walter; Emberger, Roland; Hack, Kurt; Lattner, Manfred; Nickolay, Helmut; Riedel, Karl; and Schollhammer, Richard, 4,635,321, Cl. 19-0.250.
Nickolay, Helmut; Hack, Kurt; Lattner, Manfred; Meissner, Werner; and Schollhammer, Richard, 4,676,056, Cl. 57-81.000.
Hack, Richard C.: *See*—
Wood, John W. M.; and Hack, Richard C., 4,673,659, Cl. 106-98.000.
Hack, Robert; and Strzala, Helmut, to Arthur Pfeiffer Vakuumtechnik Wetzlar GmbH. Treating metals and/or metallic compounds. 4,708,190, 11-24-87, Cl. 164-76.100.
Hacke, Heinz: *See*—
Hoft, Peter; Peter, Wolfgang; Bergsteiner, Johann; Berschick, Gunter; Drobe, Wolfgang; Engelke, Fritz; Hacke, Heinz; Hebbinghaus, Walter; and Kuhnert, Siegfried, 4,690,297, Cl. 220-273.000.
Hackelsberger, Eberhard. Steam juice extractor. 4,640,186, 2-3-87, Cl. 99-495.000.
Hackenberg, Willi: *See*—
Oexler, Rudolf; and Hackenberg, Willi, 4,662,166, Cl. 57-296.000.
Hackenberger, Alfred: *See*—
Nickels, Helmut; and Hackenberger, Alfred, 4,705,869, Cl. 549-317.000.
Hacker, David C., to Norand Corporation. Automatic voltage regulator means providing a dual low power responsive and output-voltage-controlling regulator signal particularly for a plural source battery powered system. 4,716,354, 12-29-87, Cl. 320-39.000.
Hacker, David C.: *See*—
Koenck, Steven E.; and Hacker, David C., 4,709,202, Cl. 320-43.000.
Hacker, Donald E. Glass flower process. 4,685,949, 8-11-87, Cl. 65-42.000.
Hacker, Erwin: *See*—
Schulze, Ernst-Friedrich; Burstell, Helmut; and Hacker, Erwin, 4,637,828, Cl. 71-76.000.
Hacker, Hermann; Ivanovski, Pavle; and Herber, Peter, to Voest-Alpine Aktiengesellschaft. Device for drying organic solids of high water content. 4,667,416, 5-26-87, Cl. 34-9.000.
Hacker Instruments, Inc.: *See*—
Hills, Ivan E.; and Holmelund, George, 4,685,564, Cl. 206-354.000.
Hacker, Miles P.: *See*—
Brown, David B., deceased; Khokhar, Abdul R.; Hacker, Miles P.; and McCormack, John J., 4,661,516, Cl. 514-492.000.
Hacker, Wolfgang, to Fred Vatter Strumpffabriken Schongau-Altenstadt GmbH. Multiple system circular knitting machine for knitting stockings. 4,644,762, 2-24-87, Cl. 66-51.000.
Hackett, Andrew D., to Independent Broadcasting Authority. Apparatus for deriving synchronization signals for component television video signal reception. 4,675,722, 6-23-87, Cl. 358-13.000.
Hackett, Kenneth R.: *See*—
Aires, Ramon H.; Clark, Charles A., Jr.; Ito, Roy A.; and Hackett, Kenneth R., 4,649,385, Cl. 379-57.000.
Hackett, Walter, and Galena, Peter E., to Turco Purex Industrial Corp. Floor polishes particularly receptive to high speed and very high speed spray or dry buffing. 4,704,429, 11-3-87, Cl. 524-560.000.
Hackfort, Helmut: *See*—
Chatzipetros, Johann; and Hackfort, Helmut, 4,668,261, Cl. 62-37.000.
Hackforth G.m.b.H. & Co. KG: *See*—
Walter, Jurgen; Falz, Ulrich; and Lunke, Manfred, 4,708,514, Cl. 403-372.000.
Hacking, Colin A.: *See*—
Kelly, Joseph L., Jr.; Howard, Mig A.; Nysen, Paul A.; and Hacking, Colin A., 4,698,631, Cl. 340-853.000.
Hackleman, David E.; Nielsen, Ralph H., Jr.; and Leban, Marzio A., to Hewlett-Packard Company. Creating or removing a conductive layer on an insulator over a semiconductor. 4,664,746, 5-12-87, Cl. 156-628.000.
Hackleman, David E.; Johnson, Loren E.; and Norton, Kenneth A., to Hewlett Packard Company. Increased solubility of carbon black. 4,670,059, 6-2-87, Cl. 106-307.000.
Hackleman, David E.; and Pawlowski, Norman E., to Hewlett-Packard Company. Reactive ink-jet printing. 4,694,302, 9-15-87, Cl. 346-1.100.
Hackleman, David E.; Bearss, James G.; and Bhaskar, Eldurkar V., to Hewlett-Packard Company. Thin film vertical resistor devices for a thermal ink jet printhead and methods of manufacture. 4,695,853, 9-22-87, Cl. 346-140.00R.
Hackler, Erich: *See*—
Wagener, Dietrich; Laue, Karl H.; Wunderlich, Egmar; Sander, Theo; Flockenhaus, Claus; Hackler, Erich; Levkov, Blagoje; Grimm, Daniel; Kainer, Hartmut; and Stein, Hermann, 4,672,052, Cl. 502-439.000.
Wagener, Dietrich; Laue, Karl H.; Wunderlich, Egmar; Sander, Theo; Flockenhaus, Claus; Hackler, Erich; Levkov, Blagoje; Grimm, Daniel; Kainer, Hartmut; Stein, Hermann; Buhler, Hans-Eugen; Kalfa, Horst; Jansen, Johann; Stender, Werner; and Max, Arnold, 4,695,559, Cl. 502-183.000.
Hackler, Walter A.: *See*—
Pietkivitch, Albert, 4,676,748, Cl. 433-71.000.

Hackley, Thomas A., to Westinghouse Electric Corp. Axial clamp for nuclear reactor head penetration conoseal joints. 4,653,172, 3-31-87, Cl. 29-526.00R.

Hackman, Arthur F. Photoelectric controller device including brushes. 4,713,539, 12-15-87, Cl. 250-231.0SE.

Hackman, Kenneth V., deceased; and by Hackman, Kent J., executor, to Southwest Products Co. Means and techniques useful in push-pull controls. 4,704,043, 11-3-87, Cl. 403-56.000.

Hackman, Kent J., executor: *See—*
  Hackman, Kenneth V., deceased; and Hackman, Kent J., executor, 4,704,043, Cl. 403-56.000.

Hackmann, Ludger, to Bramlage Gesellschaft mit beschrankter Haftung. Shoe polish can. 4,715,496, 12-29-87, Cl. 206-229.000.

Hackmann, Ludger: *See—*
  Sieverding, Werner; Mettenbrink, Herbert; Pohlmann, Gunter; and Hackmann, Ludger, 4,708,267, Cl. 222-211.000.

Hacknauer, Frank; DeFazio, Salvatore C.; and Fox, Richard S., to Eastman Kodak Company. Magnetic brush development apparatus having a gating and metering mechanism. 4,690,096, 9-1-87, Cl. 118-657.000.

Hackney, Bernard L.: *See—*
  Barrington, Burchus Q.; Evans, Robert T.; and Hackney, Bernard L., 4,646,829, Cl. 166-125.000.

Hackney, Ronald J.; and Guinan, James J., to Wellcome Australia Limited. Pour-on formulations. 4,672,072, 6-9-87, Cl. 514-368.000.

Hackstie, Louis F.; Briglia, Joseph F.; and Cohen, Albert, to Westinghouse Electric Corp. Dynamoelectric machine with rockable bearing supports. 4,686,403, 8-11-87, Cl. 310-90.000.

Hackworth, Donald T.: *See—*
  Heyne, Carl J.; Hackworth, Donald T.; Docherty, Edward F.; and Shestak, Edward J., 4,672,248, Cl. 310-68.00D.

Hacoba Textilmaschinen GmbH & Co KG: *See—*
  Buttermann, Gunter, 4,676,449, Cl. 242-68.400.

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  Kohlen, Karl-Heinz, 4,664,335, Cl. 242-131.100.

Hacskaylo, Michael, to United States of America, Army. Photodiode array. 4,646,120, 2-24-87, Cl. 357-30.000.

Hacskaylo, Michael, to United States of America, Army. Method of fabrication of low crosstalk photodiode array. 4,686,761, 8-18-87, Cl. 437-5.000.

Hadank, John M., and Creger, Todd D., to Caterpillar Inc. Proportional valve control apparatus for fluid systems. 4,712,376, 12-15-87, Cl. 60-427.000.

Hadary, Joseph. Toothpick holder. 4,672,986, 6-16-87, Cl. 132-90.000.

Hadbavny, David L. Lifting apparatus. 4,695,037, 9-22-87, Cl. 254-131.000.

Haddad, Hussain A.: *See—*
  Munson, Robert E.; Haddad, Hussain A.; and Hanlen, John W., 4,684,952, Cl. 343-700.0MS.

Haddad, James H.; Owen, Hartley; and Schatz, Klaus W., to Mobil Oil Corporation. Closed cyclone FCC catalyst separation method and apparatus. 4,654,060, 3-31-87, Cl. 55-424.000.

Haddad, James H.: *See—*
  Owen, Hartley; and Haddad, James H., 4,687,497, Cl. 55-349.000.

Haddad, Kenneth R.; and Vilmur, Richard J., to Motorola, Inc. Speakerphone for radio and landline telephones. 4,715,063, 12-22-87, Cl. 379-390.000.

Haddad, Muin S.: *See—*
  De Simone, Richard E.; and Haddad, Muin S., 4,670,616, Cl. 585-467.000.
  DeSimone, Richard E.; and Haddad, Muin S., 4,670,617, Cl. 585-467.000.

Hadden, Sam: *See—*
  Topp, Mark; and Hadden, Sam, 4,665,342, Cl. 313-505.000.

Haddick, David H.: *See—*
  Torrano, Michael A., Jr.; Lyon, George E.; and Haddick, David H., 4,679,087, Cl. 358-168.000.

Haddock, Richard, to Drexler Technology Corporation. Data card cassette. 4,700,840, 10-20-87, Cl. 206-449.000.

Haddock, Richard: *See—*
  Bouldin, Eric; Haddock, Richard; and Dyball, Christopher J., 4,692,402, Cl. 430-945.000.
  Drexler, Jerome; and Haddock, Richard, 4,711,347, Cl. 206-38.000.

Haddon, Merrill; and Moulton, Clifford H., to Acqua-Tronics, Inc. Method of nondestructively establishing an earth gradient for cable fault locating. 4,697,137, 9-29-87, Cl. 324-512.000.

Haddox, Mark L., to Jodon Engineering Associates, Inc. Method and apparatus for measuring engine compression ratio, clearance volume and related cylinder parameters. 4,633,707, 1-6-87, Cl. 73-47.000.

Haddox, Mark L., to Jodon Engineering Associates, Inc. Method and system for monitoring position of a fluid actuator employing microwave resonant cavity principles. 4,689,553, 8-25-87, Cl. 324-58.50C.

Haddy, Michael L., to Hydrotile Machinery Company. Packerhead with elastic rollers. 4,690,631, 9-1-87, Cl. 425-262.000.

Haden Drysys International Ltd.: *See—*
  Lynham, Ian H.; and Windall, Roy S., 4,643,082, Cl. 98-115.200.
  Marsden, Peter; and Bradwell, Paul R., 4,692,358, Cl. 427-421.000.

Haden, John D., to D.H. Haden Limited. Electrical socket apparatus. 4,707,042, 11-17-87, Cl. 439-140.000.

Haderer, Anton: *See—*
  Kammerlander, Karl; Haderer, Anton; and Neyen, Hans-Juergen v. d., 4,667,202, Cl. 342-457.000.

Haderle, Donald J.: *See—*
  Crus, Richard A.; Haderle, Donald J.; and Herron, Howard W., 4,716,528, Cl. 364-300.000.

Hadersbeck, Hans: *See—*
  Andrascek, Ernst; and Hadersbeck, Hans, 4,652,336, C 156-652.000.

Hadford, Raymond I.; and Quinton, Wayne E., to Quinton Instrumen Company. Dual-lumen fistula needle. 4,675,004, 6-23-87, C 604-44.000.

Haditsch, Werner, to BBC Brown, Boveri & Company, Limited. Co ductor winding assembly for a gas-cooled electric machin 4,701,648, 10-20-87, Cl. 310-61.000.

Hadjuski, Anatoli M.; Varbanov, Hristo P.; Mishonov, Michail T Stamov, Vladimir P.; Savov, Rosen P.; Radenkov, Strahil K.; Pane Vladimir B.; and Velev, Alexander S., to Issledovatelski Centr "Tekom". Box-unit and molding apparatus for its productio 4,638,607, 1-27-87, Cl. 52-79.900.

Hadjis, Constantin. System and method for raising sunken vessels 4,690,087, 9-1-87, Cl. 114-50.000.

Hadland Photonics Limited: *See—*
  Huston, Alexander E., 4,694,346, Cl. 358-218.000.

Hadley, David L.: *See—*
  Williams, W. Samuel; Hadley, David L.; Macia, Narciso F.; and Blum, Alvin S., 4,665,911, Cl. 128-204.210.

Hadley, Henry C., Jr.; and Mazur, Stephen, to Du Pont de Nemours, E. I., and Company. Photosensitive cathode for deposition of meta structures within organic polymeric films. 4,657,833, 4-14-87, C 430-52.000.

Hadley, Michael S.; and King, Francis D., to Beecham Group p.l.c. Azabicyclo[3.3.1]nonanes. 4,705,858, 11-10-87, Cl. 546-112.000.

Hadwen, Brian M.: *See—*
  Strolle, Christopher H.; Smith, Terrence R.; and Hadwen, Bria M., 4,683,490, Cl. 358-30.000.

Hadwin, Robin-Leslie: *See—*
  Haas, Jan T.; and Hadwin, Robin-Leslie, 4,641,678, Cl. 137-15.1

Hadzimihalis, Theo M.: *See—*
  Boccagno, George E.; Raterman, John M.; Hadzimihalis, Theo M. and Scholl, Charles H., 4,666,066, Cl. 222-146.500.
  Scholl, Charles H.; Hadzimihalis, Theo M.; and Hoover, Scott C. 4,667,850, Cl. 222-23.000.

Haeberle, Fritz: *See—*
  Huth, Lothar; Dahm, Horst; Moetting, Goetz; and Haeberle, Fritz, 4,703,398, Cl. 362-61.000.

Haeck, Paul J.; and Jacobs, Gary R., to Von Duprin Inc. Lever handle door trim. 4,641,866, 2-10-87, Cl. 292-336.300.

Haeck, Paul J.: *See—*
  Jacobs, Gary R.; and Haeck, Paul J., 4,658,664, Cl. 74-422.000.

Haeda, Yoshio: *See—*
  Itagaki, Masato; Kikuchi, Katsuaki; Nakayama, Susumu; Haeda, Yoshio; and Kawakami, Takashi, 4,704,792, Cl. 29-741.000.

Haefliger, William W.: *See—*
  Pangburn, William E., 4,712,552, Cl. 128-355.000.

Haefling, James F.; Pritchard, James W.; and Stierman, Roger J., t Texas Instruments Incorporated. Coatings for ceramic bonding capillaries. 4,691,854, 9-8-87, Cl. 228-4.500.

Haefner, Guenther: *See—*
  Letsche, Ulrich; Rapp, Wolfgang, deceased; Haefner, Guenther and Tonhaeuser, Wilhelm, 4,711,220, Cl. 123-502.000.

Haefner, Horst: *See—*
  Czich, Erhard; Drott, Peter; and Haefner, Horst, 4,709,789, C 188-73.440.

Haefner, Kenneth B.; Sweet, Larry M.; and Kuo, Ming H., to General Electric Company. Real time tracking control for taught path robots 4,675,502, 6-23-87, Cl. 219-124.340.

Haefner, LeRoy H.; and Rhodes, Stephen M., to Macklanburg-Duncan Company. Spirit level. 4,685,219, 8-11-87, Cl. 33-379.000.

Haeg, Steven R., to MTS Systems Corporation. Multiple axis tes machine reproducing road excited vehicle vibration. 4,658,656 4-21-87, Cl. 73-669.000.

Haehn, Peter C., to Linde Aktiengesellschaft. Process for recovering methylacetylene and/or propadiene. 4,701,190, 10-20-87, C 55-49.000.

Haendle, Joerg; and Haas, Werner, to Siemens Aktiengesellschaft X-ray diagnostic installation with subtraction stage. 4,663,773, 5-5-87 Cl. 378-99.000.

Haendle, Jorg; and Maass, Wolfgang, to Siemens Aktiengesellschaft Stereo X-ray subtraction apparatus. 4,658,410, 4-14-87, C 378-41.000.

Haener, Juan. Interlocking building block. 4,640,071, 2-3-87, C 52-286.000.

Haenicke, Wolfgang: *See—*
  Frahm, Jens; Haase, Axel; Matthaei, Dieter; Haenicke, Wolfgang and Merboldt, Klaus-Dietmar, 4,707,658, Cl. 324-309.000.

Haenni & Cie AG: *See—*
  Neukomm, Peter; and Augustin, Viktor, 4,647,209, Cl. 356-376.000
  Scheuter, Felix; and Schindler, Ernst, 4,673,049, Cl. 177-209.000.

Haeno, Akira: *See—*
  Aoyagi, Yoshiro; Kimura, Toshiyuki; Niinuma, Susumu; Yoshioka Minoru; Yokogawa, Fumihiko; Matsumoto, Keiichi; Haeno Akira; Sato, Takashi; Nishi, Yoshiro; Watanabe, Yoshihiko Hirano, Hiroyuki; and Ogawa, Youichi, 4,701,902, C 369-77.100.

Haentjens, Walter D. Centrifugal pump for wide range of operating conditions. 4,655,684, 4-7-87, Cl. 415-170.00A.

Haentjens, Walter D. Shaft mounted bearing lubricating device 4,700,808, 10-20-87, Cl. 184-6.180.

Haerr, Timothy A.; and Parker, Donald L., to General Motors Corporation. Check valve assembly. 4,673,000, 6-16-87, Cl. 137-860.000.

Haertling, Gene H., to Motorola, Inc. Electrooptic ceramic display and method for making same. 4,636,786, 1-13-87, Cl. 340-783.000.

Hafele, Carl H. Rotary drive lock. 4,638,650, 1-27-87, Cl. 70-179.000.

Hafele, Joseph C.; and Crayton, John W., to Caterpillar Inc. Contamination monitor and method. 4,685,066, 8-4-87, Cl. 364-509.000.

Hafele KG: *See*—
  Hasler, Georg; and Walz, Rudiger, 4,637,321, Cl. 108-72.000.
  Holzle, Roland, 4,697,934, Cl. 384-19.000.
  Koch, Gerhard, 4,669,910, Cl. 403-231.000.

Hafele, Walter; Kramer, Manfred; Schmieder, Dietmar; and Warga, Johann, to Robert Bosch GmbH. Fuel injection pump for internal combustion engines. 4,640,255, 2-3-87, Cl. 123-495.000.

Hafele, Walter; and Schenk, Bernhard, to Robert Bosch GmbH. Fuel injection pump for internal combustion engines. 4,692,102, 9-8-87, Cl. 417-296.000.

Hafele, Walter; and Guntert, Josef, to Robert Bosch GmbH. Fuel injection pump for internal combustion engines. 4,706,626, 11-17-87, Cl. 123-364.000.

Hafele, Walter: *See*—
  Guntert, Josef; Hafele, Walter; and Tschoke, Helmut, 4,705,005, Cl. 123-500.000.
  Guntert, Josef; Hafele, Walter; and Tschoke, Helmut, 4,708,114, Cl. 123-449.000.

Hafer, Cameron H.: *See*—
  Engle, Vencil D.; Hafer, Cameron H.; Hughes, Frank M.; Steger, Donald J.; Stewart, Edward G.; Street, Ramon L.; and Thompson, John A., 4,650,351, Cl. 400-120.000.

Haferkamp, Gilbert L.: *See*—
  Catlin, Joseph T.; and Haferkamp, Gilbert L., 4,648,452, Cl. 166-274.000.

Haferl, Peter E., to RCA Corporation. East-west correction circuit. 4,634,937, 1-6-87, Cl. 315-371.000.

Haferl, Peter E., to RCA Corporation. Linearity corrected deflection circuit. 4,634,938, 1-6-87, Cl. 315-371.000.

Haferl, Peter E., to RCA Corporation. North-south pincushion corrected deflection circuit. 4,668,897, 5-26-87, Cl. 315-371.000.

Haferl, Peter E.; Sutherland, Hugh F., II; Luz, David W.; McDonald, James A.; Waybright, George C.; and Willis, Donald H., to RCA Corporation. Gullwing distortion corrected deflection circuitry for a square-planar picture tube. 4,682,085, 7-21-87, Cl. 315-371.000.

Haferl, Peter E., to RCA Corporation. Raster distortion correction circuitry for a video display apparatus that includes a square-planar picture tube. 4,687,972, 8-18-87, Cl. 315-371.000.

Haffer, Dieter, to Gebruder Kommerling Kunststoffwerke GmbH. Composite bar. 4,640,078, 2-3-87, Cl. 52-731.000.

Haffer, Gregor; Borner, Helmut; and Huth, Andreas, to Schering Aktiengesellschaft. Process for the production of β-carbolines by dehydrogenation. 4,644,062, 2-17-87, Cl. 546-85.000.

Haffer, Gregor: *See*—
  Sauer, Gerhard; and Haffer, Gregor, 4,695,635, Cl. 546-69.000.

Haffner, Bernd: *See*—
  Siraky, Josef; and Haffner, Bernd, 4,652,748, Cl. 250-231.0SE.

Haffner, Eugene F.: *See*—
  Heck, Paul; and Haffner, Eugene F., 4,643,337, Cl. 222-214.000.

Hafner, Gunther; Noreikat, Karl-Ernst; Schmidt, Hans-Dieter; Letsche, Ulrich; and Bauer, Bernhard, to Daimler-Benz Aktiengesellschaft. Control valve, in particular an electrohydraulic control valve. 4,655,254, 4-7-87, Cl. 137-625.650.

Hafner, Gunther: *See*—
  Rapp, Wolfgang, deceased; Hafner, Gunther; and Letsche, Ulrich, 4,712,530, Cl. 123-502.000.

Hafner, Hans W., to Pfister GmbH. Force measuring apparatus and method. 4,644,802, 2-24-87, Cl. 73-862.380.

Hafner, Hans W., to Pfister GmbH. Force measuring device. 4,644,805, 2-24-87, Cl. 73-862.680.

Hafner, Hans W., to Pfister GmbH. Apparatus for continuous gravimetric metering and feeding of pourable material. 4,646,943, 3-3-87, Cl. 222-148.000.

Hafner, Hans W., to Pfister GmbH. Method and apparatus for continuous gravimetric metering and feeding of pourable material. 4,661,024, 4-28-87, Cl. 406-63.000.

Hafner, Hans W., to Pfister GmbH. Method and apparatus for measuring moments acting upon an object under measurement. 4,662,217, 5-5-87, Cl. 73-147.000.

Hafner, Hans W., to Pfister GmbH. Method and apparatus for continuous gravimetric metering and pneumatic feeding of pourable material. 4,682,915, 7-28-87, Cl. 406-31.000.

Hafner, Hans W., to Pfister GmbH. Device for dividing vector forces into their components. 4,700,566, 10-20-87, Cl. 73-147.000.

Hafner, Hans W., to Pfister GmbH. Method and apparatus for measuring the pressure of a fluid. 4,711,127, 12-8-87, Cl. 73-302.000.

Hafner, Otto: *See*—
  Gotsch, Dieter; Klenk, Robert; Hafner, Otto; and Suss, Claus, 4,635,732, Cl. 173-162.00R.

Hafner, Rainer. Holder for a utensil or similar object. 4,651,878, 3-24-87, Cl. 206-527.000.

Hafner, Udo; Hans, Waldemar; Kind, Wilhelm; Krauss, Rudolf; and Sauer, Rudolf, to Robert Bosch GmbH. Electromagnetically actuatable valve in particular a fuel injection valve. 4,678,124, 7-7-87, Cl. 239-585.000.

Hafner, Udo, to Robert Bosch GmbH. Electromagnetically actuable fuel injection valve and method for its manufacture. 4,704,591, 11-3-87, Cl. 335-229.000.

Hafner, V. Walter; Hahn, Ron T.; and Marshall, Keith D., to Acorn Engineering Company. Vandal resistant and tamper proof pneumatic push button assembly for moving a volume of fluid. 4,682,533, 7-28-87, Cl. 92-98.00R.

Hafner, V. Walter; Hahn, Ron T.; and Marshall, Keith D., to Acorn Engineering Company. Sprayhead with built-in soap system for multi person washfountains. 4,698,860, 10-13-87, Cl. 4-624.000.

Hafner, Walter; Ritter, Peter; Gebauer, Helmut; and Regiert, Marlies, to Consortium fur Elektrochemische Industrie GmbH. Aldehydes, acetals, alcohols and ethers having 3-methyl- or 3,5-dimethyl-benzyl groups, their manufacture and perfume materials containing same. 4,710,316, 12-1-87, Cl. 512-20.000.

Hafner, Warren G., to Pitney Bowes Inc. Mode detection circuit for a dual purpose analog input. 4,675,550, 6-23-87, Cl. 307-350.000.

Hafner, Warren G., to Pitney Bowes Inc. Integrated circuit substrate bias selection circuit. 4,686,388, 8-11-87, Cl. 307-296.00R.

Hafner, Warren G., to Pitney Bowes Inc. Multiple power supply overcurrent protection circuit. 4,706,159, 11-10-87, Cl. 361-93.000.

Hafner, Warren G.: *See*—
  DiGiulio, Peter C.; Hafner, Warren G.; and Stalzer, Henry, 4,701,856, Cl. 364-466.000.

Hafstrom, Warren R.: *See*—
  Stacik, Harold S.; and Hafstrom, Warren R., 4,709,951, Cl. 292-189.000.

Haftke, Jozef J.; Worley, Norman G.; Coleman, Colin R.; and Warris, Anne-Marie, to Babcock Power Limited. Monitoring of burner operation. 4,635,567, 1-13-87, Cl. 110-188.000.

HAG A/S: *See*—
  Groseth, Morten, 4,664,445, Cl. 297-301.000.

Hag GF Aktiengesellschaft: *See*—
  Wilkens, Jochen, 4,673,743, Cl. 544-275.000.

Haga, Akihiko: *See*—
  Aoki, Shuichi; Kumagai, Katsuyoshi; Haga, Akihiko; and Ito, Minoru, 4,674,592, Cl. 181-170.000.

Haga, Hiroya: *See*—
  Minamida, Katsuhiro; Takafuji, Hideo; Haga, Hiroya; and Mizuhashi, Nobuo, 4,649,256, Cl. 219-121.0LD.

Haga, Hiroyo: *See*—
  Shimazaki, Yasumi; Tsuyama, Yoshito; Haga, Hiroyo; and Hanzawa, Manabu, 4,645,893, Cl. 219-62.000.

Haga, Katutoshi: *See*—
  Kondo, Kunio; Haga, Katutoshi; Haga, Minoru; Kato, Yasuo; and Kaneko, Shinobu, 4,642,005, Cl. 409-232.000.
  Kondo, Kunio; Haga, Katutoshi; Kurumiya, Tadashi; Haga, Minoru; Kato, Yasuo; and Kaneko, Shinobu, 4,643,623, Cl. 409-232.000.

Haga, Masakazu: *See*—
  Okabe, Nobuya; Hirata, Toichi; Yoshida, Kumaki; Sugiyama, Genroku; Haga, Masakazu; Tanaka, Hideaki; and Tatsumi, Akira, 4,697,418, Cl. 60-434.000.

Haga, Minoru; Kaneko, Shinobu; Ikawa, Shoji; Murayama, Kiminasa; Nakamura, Yasuhide; and Saito, Mitsuo, to Toyota Jidosha Kabushiki Kaisha; and OSG Mfg. Company. Rolling method and rolling tools. 4,691,551, 9-8-87, Cl. 72-88.000.

Haga, Minoru: *See*—
  Kondo, Kunio; Haga, Katutoshi; Haga, Minoru; Kato, Yasuo; and Kaneko, Shinobu, 4,642,005, Cl. 409-232.000.
  Kondo, Kunio; Haga, Katutoshi; Kurumiya, Tadashi; Haga, Minoru; Kato, Yasuo; and Kaneko, Shinobu, 4,643,623, Cl. 409-232.000.

Haga, Noriyuki: *See*—
  Kawamata, Yuuji; Iino, Tomohiko; Suzuki, Ryoichi; and Haga, Noriyuki, 4,695,481, Cl. 427-96.000.

Haga, Takahiro; Toki, Tadaaki; Koyanagi, Toru; Okada, Hiroshi; Yoshida, Kiyomitsu; and Imai, Osamu, to Ishihara Sangyo Kaisha Ltd. Organophosphorus compounds and insecticidal, miticidal, nematicidal or soil pesticidal compositions containing them. 4,645,761, 2-24-87, Cl. 514-94.000.

Haga, Takahiro; Yamada, Nobutoshi; Sugi, Hideo; Koyanagi, Toru; and Okada, Hiroshi, to Ishihara Sangyo Kaisha Ltd. N-benzoyl-N'-pyrimidinyloxyphenyl urea compounds, and antitumorous compositions containing them. 4,677,110, 6-30-87, Cl. 514-274.000.

Haga, Takahiro; Yamada, Nobutoshi; Sugi, Hideo; Koyanagi, Toru; and Okada, Hiroshi, to Ishihara Sangyo Kaisha Ltd. N-benzoyl-N'-(3-nitrophenyl) urea compounds, and antitumorous compositions containing them. 4,677,111, 6-30-87, Cl. 514-274.000.

Haga, Toru; Nagano, Eiki; Takase, Masayuki; and Sato, Ryo, to Sumitomo Chemical Company, Limited. Benzotriazoles, and their production and use 4-halophenyl-tetrahydrobenzotriazloes as herbicides. 4,668,278, 5-26-87, Cl. 71-92.000.

Haga, Toru; Nagano, Eiki; Sato, Ryo; and Morita, Kouichi, to Sumitomo Chemical Company, Limited. Tetrahydrophthalimides, and their production and use as herbicides. 4,670,042, 6-2-87, Cl. 71-92.000.

Haga, Toru: *See*—
  Nagano, Eiki; Haga, Toru; Sato, Ryo; and Morita, Kouichi, 4,640,707, Cl. 71-96.000.

Hagan, John: *See*—
  Rehrig, James B.; and Hagan, John, 4,671,411, Cl. 206-505.000.
  Walter, Gerard S.; and Hagan, John, 4,640,571, Cl. 339-242.000.

Hagan, Lyle M.; and Pierce, William C., to Lear Siegler, Inc. Axle lift mechanism. 4,634,141, 1-6-87, Cl. 280-704.000.

Hagan, Randall B. Shipping container. 4,671,405, 6-9-87, Cl. 206-139.000.

Hagan, Richard J., to McKesson Corporation. Integral syphon package head. 4,660,748, 4-28-87, Cl. 222-509.000.

Hagan, Richard J., to McKesson Corporation. Syphon assembly and package incorporating the assembly. 4,671,436, 6-9-87, Cl. 222-402.250.

Hagan, Richard J., to McKesson Corporation. Method and apparatus for storing and dispensing fluids containered under gas pressure. 4,694,975, 9-22-87, Cl. 222-1.000.

Hagans, Patrick L.: *See*—

Gartner, Charles D.; and Hagans, Patrick L., 4,659,629, Cl. 428-469.000.

Haganuma, Tomoyuki; and Kaneko, Yoji, to Canon Kabushiki Kaisha. Video data encoding/decoding apparatus. 4,688,100, 8-18-87, Cl. 358-261.000.

Haganuma, Tomoyuki: *See*—

Ogawa, Toshiya; Ueno, Hiroaki; Yamada, Toshiaki; and Haganuma, Tomoyuki, 4,716,543, Cl. 364-900.000.

Hagar, Donald K.; Kennedy, Curtis V.; and Townsend, Garnold, to Eagleair, Inc. Sealing arrangement for air preheater. 4,673,026, 6-16-87, Cl. 165-9.000.

Hagarty, Jon R., to J. I. Case Company. Air-intake duct for work vehicles. 4,667,629, 5-26-87, Cl. 123-198.00E.

Hagberg, Calvin A., to Litton Systems, Inc. Magnetron mounting system. 4,701,586, 10-20-87, Cl. 219-10.55R.

Hage, Gunnar: *See*—

Andersson, Susanne; Gustafsson, Jan-Erik; Herngren, Torbjorn; Carlsson, Staffan; and Hage, Gunnar, 4,683,841, Cl. 122-22.000.

Hage, Kees: *See*—

Chen, Kong-Chen; and Hage, Kees, 4,674,090, Cl. 371-25.000.

Hagedoorn, Arend L.: *See*—

Vitringa, Frederick A.; and Hagedoorn, Arend L., 4,685,094, Cl. 367-183.000.

Hagedorn, Alfred A., III: *See*—

Erhardt, Paul W.; Hagedorn, Alfred A., III; Lumma, William C., Jr.; and Wohl, Ronald A., 4,709,043, Cl. 548-318.000.

Hagedorn, Floyd T., to Libbey-Owens-Ford Co. Universal-type interruption closure for apparatus for bending glass sheets. 4,654,070, 3-31-87, Cl. 65-289.000.

Hagedorn, Floyd T.: *See*—

Enk, Allan T.; Flaugher, Jeffery R.; Hagedorn, Floyd T.; and Leflet, Herbert A., Jr., 4,670,036, Cl. 65-106.000.

Hagedorn, Myrna L.: *See*—

Pittet, Alan O.; Muralidhara, Ranya; and Hagedorn, Myrna L., 4,680,142, Cl. 252-522.00R.

Pittet, Alan O.; Muralidhara, Ranya; and Hagedorn, Myrna L., 4,709,707, Cl. 131-276.000.

Hagedorn, Scott, to Celanese Corporation. 4-methylcyclohexa-3,5-diene-1,2-diol-1-carboxylic acid produced by *Pseudomonas putida* ATCC No. 39119. 4,634,668, 1-6-87, Cl. 435-146.000.

Hagedorn, Scott, to Celanese Corporation. Construction of novel mutant microorganisms. 4,654,303, 3-31-87, Cl. 435-172.300.

Hagedorn, Scott, to Celanese Corporation. Production of picolinic acid and pyridine products. 4,666,841, 5-19-87, Cl. 435-122.000.

Hagedorn, Scott, to Celanese Corporation. Production of 2-hydroxymuconic semialdehyde. 4,673,646, 6-16-87, Cl. 435-146.000.

Hagel, Robert J., Sr.; and Sella, Ronald W., to Merrill Lynch Relocation Management, Inc. Relocation management and reporting system. 4,700,297, 10-13-87, Cl. 364-408.000.

Hagelauer, Ulrich; and Faust, Uwe. Process for temperature controlling a liquid. 4,708,878, 11-24-87, Cl. 426-231.000.

Hagele, Karl-Heinz: *See*—

Dettling, Hubert; Eisele, Hermann; Haag, Gottlob; Hagele, Karl-Heinz; Linder, Ernst; and Polach, Wilhelm, 4,649,703, Cl. 60-275.000.

Dettling, Hubert; Haag, Gottlob; Hagele, Karl-Heinz; Leonhard, Rolf; and Polach, Wilhelm, 4,693,078, Cl. 60-295.000.

Haag, Gottlob; Hagele, Karl-Heinz; and Harer, Helmut, 4,634,806, Cl. 174-211.000.

Hagelin, Frank H., to Telefonaktiebolaget LM Ericsson. Method of measuring a DC current or a low-frequency AC current. 4,682,100, 7-21-87, Cl. 324-117.00R.

Hagelstein, Peter L., to United States of America, Energy. Soft X-ray laser using pumping of 3P and 4P levels of He-like and H-like ions. 4,660,203, 4-21-87, Cl. 372-5.000.

Hageman, Martin P., to Kelley Company Inc. Vehicle restraint using a parallelogram linkage. 4,674,941, 6-23-87, Cl. 414-401.000.

Hageman, Martin P.: *See*—

Bennett, Mark A.; Hageman, Martin P.; and Delgado, Joseph M., 4,665,579, Cl. 14-71.100.

Hagemann, Alfred A. W. A.; and Johnson, George A., to Lever Brothers Company. Bleach-stable deodorant perfumes in detergent powders. 4,663,068, 5-5-87, Cl. 252-99.000.

Hagemann, Eckhard: *See*—

Scholl, Hans; Thiele, Horst; and Hagemann, Eckhard, 4,696,242, Cl. 112-121.140.

Hagemann, Franz-Josef; and Hewing, Bernd. Floor board assembly. 4,640,067, 2-3-87, Cl. 52-220.000.

Hagemann, Fritz; and Hagenah, Klaus, to Hauni-Werke Korber & Co. KG. Apparatus for supplying particles of tobacco to processing machines. 4,685,476, 8-11-87, Cl. 131-110.000.

Hagemann, Hermann: *See*—

Salzburg, Herbert; Hajek, Manfred; Hagemann, Hermann; Kuhle, Engelbert; Fuhrer, Wolfgang; Hanssler, Gerd; Brandes, Wilhelm; and Reinecke, Paul, 4,713,389, Cl. 514-373.000.

Hagemeister, Klaus, to MTU Motoren-und-Turbinen Union Munchen GmbH. Method for mass producing superimposed annular elements of a tubular manifold or collector vessel of a heat exchanger. 4,698,888, 10-13-87, Cl. 29-157.30R.

Hagemeister, Klaus, to MTU Motoren-und Turbinen-Union Munche GmbH. Aerodynamic radial bearing. 4,699,523, 10-13-87, C 384-103.000.

Hagemeister, Robert C., to Webster Spring Co. Inc. Spring un 4,666,136, 5-19-87, Cl. 267-103.000.

Hagemeister, Robert C., to Webster Spring Co. Inc. Bent wire spring module. 4,684,111, 8-4-87, Cl. 267-103.000.

Hagemeister, Robert C., to Webster Spring Co. Inc. Spring un 4,685,659, 8-11-87, Cl. 267-103.000.

Hagen Batterie AG: *See*—

Nann, Eberhard; and Bernardi, Walter, 4,657,799, Cl. 428-77.00

Hagen, Donald R., to Resistance Technology, Inc. Compression connection for potentiometer leads. 4,636,768, 1-13-87, Cl. 338-312.00

Hagen, Floyd W.; and DeLeo, Richard V., to Rosemount Inc. Dra manifold for air data sensor. 4,645,517, 2-24-87, Cl. 55-182.000.

Hagen, Hans, to Bayerische Motoren Werke Aktiengesellschaft. Win shield washing system for motor vehicles. 4,700,424, 10-20-87, C 15-250.040.

Hagen, Helmut; and Kohler, Rolf-Dieter, to BASF Aktiengesellschaf Substituted triazanonanes and process for their preparatio 4,667,035, 5-19-87, Cl. 544-246.000.

Hagen, Helmut; Ziegler, Hans; Kohler, Rolf-Dieter; Pommer, Erns Heinrich; and Dressel, Jurgen, to BASF Aktiengesellschaft. 2-amin 4-trichloromethylpyridine and its preparation. 4,699,983, 10-13-8 Cl. 546-311.000.

Hagen, Helmut; Kohler, Rolf-Dieter; Markert, Jurgen; and Wuerze Bruno, to BASF Aktiengesellschaft. Quinoline derivatives and the use for controlling undesirable plant growth. 4,715,889, 12-29-87, C 71-94.000.

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Gerkema, Jan; Hagen, Johannes L. M.; and Rietdijk, Johan A. 4,644,577, Cl. 378-133.000.

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Ruch, Siegfried; Hagen, Karl-Heinz; and Hambrock, Klaus-Pete 4,655,798, Cl. 55-64.000.

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Taylor, Bruce F.; and Hagen, Kenneth G., 4,685,221, C 34-155.000.

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Hagen, Kurt: *See*—

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Hageniers, Omer L., to Diffracto Ltd. Triangulation data integrity 4,705,395, 11-10-87, Cl. 356-1.000.

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Pryor, Timothy R.; Hockley, Bernard; Liptay-Wagner, Nic Hageniers, Omer L.; and Pastorius, W. J., 4,674,869, C 356-1.000.

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Hager, Donald K., to Damper Design, Inc. Closure for controlling th flow of a hot fluid. 4,666,270, 5-19-87, Cl. 251-326.000.

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Hager, Jeffrey J.: *See—*
- Van Brunt, Michael K.; and Hager, Jeffrey J., 4,705,915, Cl. 174-35.00R.

Hager, Jorg: *See—*
- Schulz, Volker; Leyck, Sigurd; Durr, Manfred; Ghyczy, Miklos; Wendel, Armin; and Hager, Jorg, 4,684,632, Cl. 514-78.000.
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Hager, Joseph F. Reclamation of scrap vinylidene chloride polymer coated film. 4,643,861, 2-17-87, Cl. 264-118.000.

Hager, Juergen; Vieth, Walter; and Manderla, Werner, to Magurit-Gefrierschneider GmbH. Frozen meat cutter. 4,638,697, 1-27-87, Cl. 83-356.300.

Hager, Karl-Heinz; Henneberg, Peter; and Juranek, Hans-Joachim, to Carl-Zeiss-Stiftung. Optical arrangement for transmitting high-intensity radiation. 4,701,023, 10-20-87, Cl. 350-321.000.

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Hager, Robert E., to Westinghouse Electric Corp. Testable, fault-tolerant power interface circuit for normally de-energized loads. 4,683,105, 7-28-87, Cl. 376-259.000.

Hager, Robert J., to Honeywell Inc. Wipe-off apparatus of liquid phase epitaxy of mercury cadmium telluride. 4,706,604, 11-17-87, Cl. 118-415.000.

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Hagerman, Gene R.; Atkins, John W.; and McMurtry, John G., to Sport Cord, Inc. Multi-purpose exerciser. 4,685,671, 8-11-87, Cl. 272-139.000.

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- Cook, John E.; Hagerty, Robert O.; and Jacob, Frederick W., 4,666,999, Cl. 526-84.000.
- Cook, John E.; Giacobbe, Thomas J.; and Hagerty, Robert O., 4,675,369, Cl. 526-129.000.

Hagerty, Sydney: *See—*
- DeVisser, Richard B.; and Hagerty, Sydney, 4,642,188, Cl. 210-333.100.

Hagey, William H.: *See—*
- Olsson, Mark S.; Hagey, William H.; and Rosenthal, Brock J., 4,683,523, Cl. 362-267.000.

Haggas, Robert H., to Valley Printing Company Limited. Identification kits. 4,676,753, 6-30-87, Cl. 434-155.000.

Haggbom, Sune; Nylund, Per O.; and Lind, Arne, to Tyrens Foretagsgrupp AB. Regulating means for controlling the supply of heat to a confined space, and means for establishing when the heating requirement of an air mass exceeds a pre-determined value, and by how much. 4,676,433, 6-30-87, Cl. 236-10.000.

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Haggerty, David L.: *See—*
- Maier, Alfred E.; and Haggerty, David L., 4,650,946, Cl. 200-288.000.
- Tedesco, Robert J.; and Haggerty, David L., 4,642,431, Cl. 200-153.00G.

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Haggerty, William T., to Wang Laboratories, Inc. Monochromatic representation of color images. 4,688,031, 8-18-87, Cl. 340-793.000.

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Hagihara, Hideaki; and Nishijima, Masaru, to Sharp Kabushiki Kaisha. Developer material supply arrangement. 4,650,097, 3-17-87, Cl. 222-161.000.

Hagihara, Ryoji: *See—*
- Higuchi, Mitsuo; and Hagihara, Ryoji, 4,656,609, Cl. 365-200.000.

Hagihara, Shiro; Tsutani, Sadahiro; and Maeda, Yoichiro, to Mitsubishi Denki Kabushiki Kaisha. Self-traveling machine. 4,702,331, 10-27-87, Cl. 180-9.320.

Hagihara, Takashi; and Kuramitsu, Yuzi, to NEC Corporation. Method of producing a cooled electronic assembly. 4,685,211, 8-11-87, Cl. 29-832.000.

Hagikura, Hirofumi: *See—*
- Ohashi, Toshio; Ichimaru, Yoshiro; Ishimaru, Junpei; and Hagikura, Hirofumi, 4,660,461, Cl. 98-2.010.

Hagimoto, Kiyoshi: *See—*
- Hirano, Takahisa; and Hagimoto, Kiyoshi, 4,678,415, Cl. 418-50.000.

Hagimoto, Yoshio: *See—*
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- Tsutsumi, Masaru; Hagino, Hideo; Fujiwara, Osamu; and Goto, Hitoshi, 4,642,274, Cl. 429-35.000.
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Hagino, Hideyuki, to Kabushiki Kaisha Toshiba. Automatic gain control circuit. 4,667,242, 5-19-87, Cl. 358-174.000.

Hagino, Hiroyasu, to Mitsubishi Denki Kabushiki Kaisha. Method of producing a gate turn-off thyristor. 4,662,957, 5-5-87, Cl. 148-188.000.

Hagino, Kiyoshi: *See—*
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Haginoya, Tsutomu: *See—*
- Kitaori, Tadahiro; Haginoya, Tsutomu; and Kozakura, Nobuto, 4,711,676, Cl. 148-319.000.

Hagio, Masahiro; Nanbu, Shutaro; Kanazawa, Kunihiko; Ogata, Shunji; and Tohmori, Shiro, to Matsushita Electronics Corporation. Semiconductor device having a protection breakdown diode on a semi-insulative substrate. 4,665,416, 5-12-87, Cl. 357-22.000.

Hagio, Tsuyoshi: *See—*
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Hagiri, Minoru, to Ricoh Company, Ltd. Thermosensitive image transfer medium. 4,705,774, 11-10-87, Cl. 503-207.000.

Hagisawa, Toshihiko: *See—*
- Musha, Toshimitsu; Kiuchi, Eichi; and Hagisawa, Toshihiko, 4,661,816, Cl. 342-91.000.
- Nakamura, Hiroshi; Kiuchi, Eichi; and Hagisawa, Toshihiko, 4,658,255, Cl. 342-91.000.

Hagita, Hyoji; Fukuda, Takashi; Maeda, Shigeru; Imamura, Hideo; Ogata, Kazutosi; and Fukuoka, Masahiro, to Sumitomo Metal Industries, Ltd. Method for continuous drawing of wire rod. 4,688,411, 8-25-87, Cl. 72-42.000.

Hagita, Shoji; and Kakuyama, Shinji, to Sony Corporation. Apparatus for detecting and compensating drop-outs in an audio and video signal. 4,651,230, 3-17-87, Cl. 358-314.000.

Hagiuda, Nobuyoshi: *See—*
- Terui, Nobuhiko; and Hagiuda, Nobuyoshi, 4,697,907, Cl. 354-416.000.
- Yokonuma, Norikazu; and Hagiuda, Nobuyoshi, 4,660,956, Cl. 354-416.000.

Hagiuda, Yasuhiro: *See—*
- Hata, Ryosuke; Yamanouchi, Shosuke; Hirose, Masayuki; Kuwabara, Hidemitsu; Mizumoto, Yasuharu; and Hagiuda, Yasuhiro, 4,673,607, Cl. 428-172.000.

Hagiwara, Haruo; Tsukamoto, Hideo; and Tsubaki, Yasuhiro, to Mitsubishi Jukogyo Kabushiki Kaisha. Dry cleaning apparatus. 4,712,392, 12-15-87, Cl. 68-18.00C.

Hagiwara, Hisao: *See—*
- Tsuru, Daisuke; Yoshimoto, Tadashi; Hagiwara, Hisao; and Kado, Kunio, 4,687,778, Cl. 514-419.000.

Hagiwara, Isao; and Yoshida, Yukio, to Yoshida Kogyo K. K. Control system for an automatic door. 4,673,848, 6-16-87, Cl. 318-266.000.

Hagiwara, Isao, to Yoshida Kogyo K. K. Controlling device for an automatic door. 4,697,383, 10-6-87, Cl. 49-25.000.

Hagiwara, Kenji: *See—*
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Hagiwara, Michiki: *See—*
- Iwasaki, Shosuke; Abiko, Tetsuo; Hagiwara, Michiki; and Nanba, Keizo, 4,636,356, Cl. 420-532.000.
- Sugiyama, Yoshihiko; Nanba, Keizo; Hagiwara, Michiki; Aoki, Takeshi; Iwasaki, Shosuke; and Abiko, Tetsuo, 4,673,551, Cl. 420-535.000.

- Hagiwara, Mitsuo: *See—*
  - Yasuhara, Seishi; Hagiwara, Mitsuo; Inoue, Kazuo; Fujimori, Kyoichi; Sekiguchi, Akira; and Okada, Hiroshi, 4,638,782, Cl. 123-502.000.
- Hagiwara, Satoru; Satoh, Kimio; and Okabe, Kazuo, to Toray Industries, Inc. Method for holding a moving film. 4,683,093, 7-28-87, Cl. 264-22.000.
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- Hagiwara, Takaaki; Kaga, Toru; and Masuda, Hiroo, to Hitachi, Ltd. Electrically erasable programmable RAM. 4,656,607, 4-7-87, Cl. 365-182.000.
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  - Yatsuda, Yuji; Hagiwara, Takaaki; Horiuchi, Masatada; Minami, Shinichi; and Kaga, Toru, 4,668,970, Cl. 357-23.500.
- Hagiwara, Takashi, to Sigma Enterprises, Inc. Control device for game machine. 4,679,143, 7-7-87, Cl. 364-412.000.
- Hagiwara, Takeshi; Matsuo, Masataka; Tamehiro, Tanezoh; Tamehiro, Taizo; and Murakami, Kakuichi, to Nippon Steel Corporation; and Harima Refractory Co., Ltd. Inorganic filler dispersed-resin composition. 4,711,916, 12-8-87, Cl. 523-223.000.
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- Hagiwara, Yasuhiko: *See—*
  - Taya, Akira; Narita, Kazuo; Hagiwara, Yasuhiko; and Hatakeyama, Keiji, 4,663,563, Cl. 313-487.000.
- Hagiwara, Yukio: *See—*
  - Fukushi, Yuzo; and Hagiwara, Yukio, 4,658,420, Cl. 379-407.000.
- Hagler, Andrew J., to Case-Hoyt. Method and apparatus for marking defective portions of a printed web. 4,700,627, 10-20-87, Cl. 101-426.000.
- Hagler, Arnold T.: *See—*
  - Rivier, Jean E. F.; Varga, Janos I.; Hagler, Arnold T.; Struthers, R. Scott; Perrin, Marilyn H.; Rivier, Catherine L.; and Vale, Wylie W., Jr., 4,661,472, Cl. 514-15.000.
- Hagler, Herbert K., to Gatan, Inc. Method and apparatus for securing and transferring grid specimens. 4,672,797, 6-16-87, Cl. 53-467.000.
- Hagler, Winston M., Jr.: *See—*
  - Croom, Warren J., Jr.; and Hagler, Winston M., Jr., 4,647,567, Cl. 514-299.000.
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- Haglund, Ingemar: *See—*
  - Hellner, Lars; Haglund, Ingemar; Ronn, Torsten; and Albrektsson, Kjell, 4,644,867, Cl. 102-495.000.
- Haglund, Kjell, to Kamewa AB. Arrangement for fitting a propeller assembly to an opening in a bottom structure of a watercraft and for dismantling the assembly therefrom. 4,696,650, 9-29-87, Cl. 440-49.000.
- Haglund, Steve A.; Lohmann, Arthur M.; and Pickering-Johnson, Sharon A., to Honeywell Inc. Align at fire, safe and arm, and power supply module for a land mine. 4,712,478, 12-15-87, Cl. 102-424.000.
- Hagmann, Jean-Pierre: *See—*
  - Tschanz, Pierre; and Hagmann, Jean-Pierre, 4,671,055, Cl. 59-80.000.
- Hagmann, Peter: *See—*
  - Becker, Erwin; Ehrfeld, Wolfgang; and Hagmann, Peter, 4,693,791, Cl. 204-11.000.
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  - Ehrfeld, Wolfgang; Hagmann, Peter; Maner, Asim; Munchmeyer, Dietrich; and Becker, Erwin, 4,661,212, Cl. 204-11.000.
  - Ehrfeld, Wolfgang; and Hagmann, Peter, 4,694,548, Cl. 29-157.00C.
  - Ehrfeld, Wolfgang; Hagmann, Peter; Munchmeyer, Dietrich; and Becker, Erwin W., 4,703,559, Cl. 29-854.000.
- Hagmann, William K.; Durette, Philippe L.; and Ponpipom, Mitree M., to Merck & Co., Inc. Steroidal glycolipids as host resistance stimulators. 4,652,553, 3-24-87, Cl. 514-26.000.
- Hagmann, William K.; and Ponpipom, Mitree M., to Merck & Co., Inc. Steroidal glycolipids. 4,652,637, 3-24-87, Cl. 536-5.000.
- Hagmann, William K.: *See—*
  - Doherty, James B.; Finke, Paul E.; Hagmann, William K.; and Shah, Shrenik K., 4,699,904, Cl. 514-202.000.
- Hagner, Robert C., to Bas-Tex Corporation. High pressure flow line connection. 4,648,632, 3-10-87, Cl. 285-334.100.
- Hagstrom, Gerald F.; Leemans, Daniel L.; and Turner, Reed J., to Deere & Company. Combine harvester with header-mounted separator. 4,663,921, 5-12-87, Cl. 56-14.600.
- Hagstrom, Robert G.: *See—*
  - Burgess, Lester E.; Hagstrom, Robert G.; Herman, David E.; and McGarry, Phillip E., 4,671,801, Cl. 44-51.000.
- Hague, Brian: *See—*
  - Stanley, Theodore H.; and Hague, Brian, 4,671,953, Cl. 424-440.000.
- Hague, Duane O., and Barnes, James E., to United States of Americ Air Force. Extracting digital data from a bus and multiplexing it wit a video signal. 4,636,858, 1-13-87, Cl. 358-147.000.
- Hagy, Howard K., and Harrington, Thomas A., to Boeing Compan The Longitudinal stability augmentation system and metho 4,676,460, 6-30-87, Cl. 244-76.00R.
- Hable, Hermann, to Lemforder Metallwaren AG. Bearing having divided housing for stabilizing in motor vehicle. 4,707,149, 11-17-8 Cl. 384-294.000.
- Hahn, Alfred, to Siemens Aktiengesellschaft. Primary-beam collimat for stereo radiographic x-ray diagnostic apparatus. 4,641,335, 2-3-8 Cl. 378-153.000.
- Hahn, Alfred; and Vogel, George, to Siekens Aktiengesellschaft. Apparatus for contactless fragmentation of concrements in vivo. 4,655,2 4-7-87, Cl. 128-328.000.
- Hahn, Alfred; Kamm, Bodo; Weiss, Karl; and Dummert, Johannes, t Siemens Aktiengesellschaft. X-ray apparatus with spring weigh compensation. 4,715,057, 12-22-87, Cl. 378-197.000.
- Hahn, Alfred: *See—*
  - Bremll, Rudolf; Hahn, Alfred; and Weiss, Karl, 4,697,802, C 269-323.000.
- Hahn, Andreas: *See—*
  - Hengst, Thomas; and Hahn, Andreas, 4,669,819, Cl. 350-96.200.
- Hahn, Berthold: *See—*
  - Nippert, Georg; Hahn, Berthold; and Gobrecht, Jens, 4,710,795, C 357-65.000.
- Hahn, Betty K. Bed linens with releasable fasteners. 4,651,371, 3-24-8 Cl. 5-497.000.
- Hahn, Clifford H.: *See—*
  - Feinzig, David S.; Watson, I. Wesley; and Hahn, Clifford H. 4,676,946, Cl. 376-289.000.
- Hahn, Clive E. W.: *See—*
  - Davies, William L.; Hahn, Clive E. W.; Jackson, Roy K.; McGra han, Thomas A.; Palayiwa, Eileen; and Sugg, Basil R., 4,690,5 Cl. 356-361.000.
- Hahn, Dustan L.: *See—*
  - Gassler, Richard D.; and Hahn, Dustan L., 4,665,792, Cl. 39-1.0
- Hahn, Erwin: *See—*
  - Bergmann, Udo; Hahn, Erwin; and Hansen, Guenter, 4,668,775, C 534-765.000.
  - Colberg, Horst; and Hahn, Erwin, 4,694,075, Cl. 534-604.000.
  - Fikentscher, Rolf; Hahn, Erwin; Kud, Alexander; and Oftring, Alfred, 4,652,669, Cl. 558-441.000.
  - Fikentscher, Rolf; Hahn, Erwin; Kud, Alexander; and Oftring, Alfred, 4,654,432, Cl. 558-357.000.
  - Oftring, Alfred; Hahn, Erwin; and Fikentscher, Rolf, 4,670,59 C 564-224.000.
- Hahn, Franz D.; Heinemann, Otto; and Schmits, Heinz-Herbert, t Krupp Polysius AG. Device for shutting off a pipe. 4,660,5 4-28-87, Cl. 251-328.000.
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- Hahn, Gary S., to Immunetech, Inc. Immunotherapeutic polypepti agents which bind to lymphocyte immunoglobulin FC recepto 4,683,292, 7-28-87, Cl. 530-328.000.
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Haibara, Hitoshi: *See*—

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  Friedman, Lee G.; Hailpern, Brent T.; Hoevel, Lee W.; and Thefame, Yannick J., 4,710,769, Cl 340-825.030.

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Hain, David A., to NCR Corporation. Sheet feeding apparatus. 4,699,374, 10-13-87, Cl 271-267.000.

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Haines, Eldon L.; and Block, Robert A., to Sunrise Research, Inc. Bubble formation and circulation system. 4,671,252, 6-9-87, Cl. 126-433.000.

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Haines, Robert E. Thrust rod anchor for pipe joint restraint systems. 4,635,970, 1-13-87, Cl. 285-114.000.

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Hakim, John, to Petrolite Corporation. Extrusion processing aid composition and polyolefin containing same. 4,701,487, 10-20-87, C 524-229.000.

Hakim, M. Javid, to Liburdi Engineering Limited. Apparatus for chemical vapor deposition. 4,699,082, 10-13-87, Cl. 118-716.000.

Hakim, Shafik J.: *See—*

Chang, Shih-Jeh; Emery, Richard T.; and Hakim, Shafik J. 4,683,584, Cl. 379-269.000.

Chang, Shih-Jeh; Emery, Richard T.; Hakim, Shafik J.; and Sand Douglas S., 4,694,487, Cl. 379-269.000.

Hakimi, Farhad; Po, Hong; and Snitzer, Elias, to Polaroid Corporatio Optical fiber laser. 4,680,767, 7-14-87, Cl. 372-6.000.

Hakkinen, Heli-Riitta M.: *See*—

Mikkola, Antti R.; Hakkinen, Heli-Riitta M.; Nuotio, Lasse O.; Nurmi, Esko V.; and Schneitz, Carita E., 4,657,762, Cl. 424-93.000.

Hakkinen, Leo: *See*—

Rajakallio, Pauli; and Hakkinen, Leo, 4,676,322, Cl. 173-36.000.

Hakkinen, Pekka: *See*—

Kahaipuro, Matti; and Hakkinen, Pekka, 4,635,320, Cl. 187-29.00R.

Hakkinen, Taisto, to Etela Hameen Keuhkovammyhdistys R.Y. Exhalation flow meter. 4,638,812, 1-27-87, Cl. 128-726.000.

Hakko Electric Machine Works Co., Ltd.: *See*—

Tanaka, Masataka; Ohto, Masao; Sekine, Tetsuo; Isobe, Koji; and Maruyama, Masaru, 4,643,196, Cl. 128-753.000.

Hakky, Said I. Automatic/manual resectoscope. 4,657,018, 4-14-87, Cl. 128-303.150.

Hako Minuteman, Inc.: *See*—

Palmer, Gary E.; and Todd, Mike J., 4,701,976, Cl. 15-385.000.

Palmer, Gary E., 4,712,270, Cl. 15-345.000.

Todd, Mike J.; and Palmer, Gary E., 4,715,087, Cl. 15-385.000.

Hakooptan, Hakoop: *See*—

Mackey, Peter J.; Hakooptan, Hakoop; and Ramputi, Michael A., 4,667,302, Cl. 364-718.000.

Hakoun, Roland, and Jurczyszyn, Michel, to Optiques Compagnie Lyonnaise de Tranmissions. Automatic machine for welding two optical fibers end-to-end. 4,695,306, 9-22-87, Cl. 65-152.000.

Hakoun, Roland: *See*—

Carratt, Michel; Hakoun, Roland; Maurel, Jean-Joseph; Pecastaings, Serge; and Repain, Pascal, 4,688,891, Cl. 350-96.240.

Hakoyama, Akiyoshi; Sasaki, Akira; and Fukasawa, Nobuaki, to Hitachi, Ltd. Printer having a thermal head. 4,652,155, 3-24-87, Cl. 400-120.000.

Hakoyama, Akiyoshi; Saitoh, Shouji; and Sasaki, Akira, to Hitachi, Ltd. Thermal head. 4,672,391, 6-9-87, Cl. 346-76.0PH.

Hakoyama, Akiyoshi: *See*—

Kitagishi, Tomoji; Sasaki, Akira; Hakoyama, Akiyoshi; Furukawa, Shigetaka; Suzaki, Masafumi; Kobayashi, Ryooichi; Mikami, Katsumasa; Takahashi, Yoshihiro; Nagano, Yousuke; and Honma, Takeo, 4,707,708, Cl. 346-76.0PH.

Hakoyama, Soichi; Mori, Shigetatu; Takebe, Yoshiyuki; and Imaoka, Kanya, to Teijin Limited; and Kitanihon Spinning Co., Ltd. False twist crimped yarn having improved coherency. 4,638,624, 1-27-87, Cl. 57-208.000.

Haku, Hisao: *See*—

Fukatsu, Takeo; Goto, Kazuyuki; Haku, Hisao; and Kuwano, Yukinori, 4,681,826, Cl. 430-65.000.

Minami, Koji; Goto, Kazuyuki; Haku, Hisao; Fukatsu, Takeo; Ohnishi, Michitoshi; and Kuwano, Yukinori, 4,670,367, Cl. 430-57.000.

Nakashima, Yukio; Haku, Hisao; Watanabe, Kaneo; and Matsuoka, Tsugufumi, 4,705,912, Cl. 136-258.000.

Hakuba Shashin Sagyo Kabushiki Kaisha: *See*—

Iwasaki, Osamu, 4,648,698, Cl. 354-293.000.

Hakun, Robert; and Huling, Clarence W., to Collegeville Flag & Manufacturing Co. Mask display package. 4,653,642, 3-31-87, Cl. 206-486.000.

Hakushin Kogyo Co., Ltd.: *See*—

Juhuku, Hiroki, 4,658,717, Cl. 100-126.000.

Hakuto Chemical Co., Ltd.: *See*—

Uchiyama, Hiroshi; and Matsui, Yukinori, 4,636,297, Cl. 208-48.0AA.

Hakuto Co., Ltd.: *See*—

Miyake, Eiichi, 4,659,419, Cl. 156-522.000.

Hakuto Seisakusho Co., Ltd.: *See*—

Takahashi, Terao, 4,668,544, Cl. 428-593.000.

Hal Leonard Publishing Corporation: *See*—

Mardak, Keith R., 4,709,895, Cl. 248-460.000.

Halabisky, Donald D.; and Dudley, Dwight A., II, to Weyerhaeuser Company. Reinforced container. 4,690,835, 9-1-87, Cl. 427-210.000.

Haladuda, Gunter: *See*—

Wagner, Wolfram; Nyssen, Peter R.; Espanion, Gunter; Berkenhaus, Dirk; Haladuda, Gunter; van Pey, Hans-Theo; and Schott, Karl-Heinz, 4,676,815, Cl. 65-16.000.

Haland, Lars Y.: *See*—

Andersson, Sture R.; Haland, Lars Y.; and Morner, Bengt O. J. S., 4,705,296, Cl. 280-806.000.

Halasa, Adel F.; and Cunningham, Robert E., to Goodyear Tire & Rubber Company, The. Modifier for lithium catalysts. 4,696,986, 9-29-87, Cl. 526-181.000.

Halase, John F., III: *See*—

Bantel, Thomas E.; Lahrman, David F.; and Halase, John F., III, 4,634,291, Cl. 374-7.000.

Halatsch, Wolf-Rainer: *See*—

Henklein, Peter; Becker, Manfred; Buttner, Werner; Loth, Fritz; Dautzenberg, Horts; Forner, Klaus; Dolling, Rudolf; Graul, Karl-Heinz; Halatsch, Wolf-Rainer; and Rupprich, Christian, 4,714,768, Cl. 548-435.000.

Halbach & Braun Industrieanlagen: *See*—

Braun, Gert; and Braun, Ernst, 4,637,268, Cl. 74-190.000.

Braun, Gert; and Braun, Ernst, 4,643,296, Cl. 198-735.000.

Braun, Gert; and Braun, Ernst, 4,645,265, Cl. 299-45.000.

Braun, Gert; and Braun, Ernst, 4,715,658, Cl. 299-34.000.

Halbach, Richard E.: *See*—

Moran, Paul R.; and Halbach, Richard E., 4,697,147, Cl. 324-306.000.

Halbardier, Floyd A., to Baker Oil Tools, Inc. Steam injection packer actuator and method. 4,655,292, 4-7-87, Cl. 166-387.000.

Halbardier, Floyd A., to Baker Oil Tools, Inc. Method and apparatus for setting, unsetting, and retrieving a packer from a subterranean well. 4,708,208, 11-24-87, Cl. 166-387.000.

Halbe, Manfred; and Grambow, Hans J., to U.S. Philips Corporation. Circuit arrangement for an apparatus with a picture and/or sound channel. 4,677,689, 6-30-87, Cl. 455-181.000.

Halberg, Leslie I.: *See*—

Tykulsky, Alexander; Thiele, Karl E.; and Halberg, Leslie I., 4,640,292, Cl. 128-661.000.

Halbergerhutte GmbH: *See*—

Albrecht, Karl-Hans; Luhr, Hartmut; and Pieck, Gunter, 4,693,294, Cl. 164-312.000.

Halberschmidt, Friedrich; Reinmold, Heinz-Josef; Schwarzenberg, Norbert; Radermacher, Herbert; Blank, Kurt; Audi, Josef; and Vanaschen, Luc, to Saint Gobain Vitrage. Process and apparatus for bending glass plates in a horizontal position. 4,682,997, 7-28-87, Cl. 65-106.000.

Halberstadt, Alex L.; and Hume, Roger A., to Thorn EMI plc. Incandescent lamps. 4,710,677, 12-1-87, Cl. 313-580.000.

Halbert, Joel M.; and Koen, Myron J., to Burr-Brown Corporation. Sampling waveform digitizer for dynamic testing of high speed data conversion components. 4,641,246, 2-3-87, Cl. 364-487.000.

Halbert, Seymour P., to Cordis Laboratories, Inc. Apparatus and method for therapeutic immunodepletion. 4,637,880, 1-20-87, Cl. 210-638.000.

Halbert, Seymour P.; and Anken, Milton, to Diamedix Corporation. Sandwich EIA for antigen. 4,642,285, 2-10-87, Cl. 435-7.000.

Halbert, Thomas R.; and Stiefel, Edward I., to Exxon Research and Engineering Company. Dithioacid vanadium sulfide dimer compositions. 4,681,958, 7-21-87, Cl. 556-42.000.

Halbherr, Gerd, to Dr. C. Otto & Comp. GmbH. Reversing valve. 4,664,140, 5-12-87, Cl. 137-246.110.

Halbritter, Klaus: *See*—

Gramlich, Walter; Halbritter, Klaus; and Heilen, Gerd, 4,684,743, Cl. 558-374.000.

Halbrook, Billie L., to Cordero Mining Co. Trail cable pickup reel. 4,664,331, 5-12-87, Cl. 242-86.50R.

Halcon SD Group, Inc., The: *See*—

Becker, Mitchell; and Sachs, Howard M., 4,661,631, Cl. 562-519.000.

Becker, Mitchell; and Liu, Kindtoken H., 4,663,303, Cl. 502-170.000.

Brill, William F., 4,661,337, Cl. 423-584.000.

Goliaszewski, Alan E.; and Salinaro, Richard F., 4,666,632, Cl. 260-369.000.

Hewlett, Colin, 4,698,187, Cl. 260-546.000.

Pugach, Joseph, 4,659,682, Cl. 502-24.000.

Rizkalla, Nabil, 4,650,615, Cl. 260-546.000.

Rizkalla, Nabil, 4,659,518, Cl. 260-413.000.

Halcour, Kurt: *See*—

Ingendoh, Axel; Schemert, Wolfgang; Becker, Benedikt; Halcour, Kurt; and Stendel, Wilhelm, 4,681,892, Cl. 514-378.000.

Wagner, Rudolf; Halcour, Kurt; Dicke, Hans-Rudolf; and Eckhardt, Volker, 4,716,252, Cl. 568-729.000.

Halcyon Waterbed Inc.: *See*—

Hubert, Nicola P., 4,686,721, Cl. 5-451.000.

Kocsis, Andre, 4,672,701, Cl. 5-450.000.

Smith, John W., 4,663,789, Cl. 5-450.000.

Halczenko, Wasyl: *See*—

Baldwin, John J.; Halczenko, Wasyl; Hartman, George; and Pitzenberger, Steven M., 4,678,806, Cl. 514-539.000.

Hald, Ewald: *See*—

Schreiber, Wolfgang; Ludwig, Manfred; and Hald, Ewald, 4,655,103, Cl. 81-474.000.

Haldemann A.G.: *See*—

Haldemann, Gaston; and Wirz, Francois, 4,657,277, Cl. 280-616.000.

Haldemann, Gaston; and Wirz, Francois, to Haldemann A.G. Safety binding of a boot on a ski. 4,657,277, 4-14-87, Cl. 280-616.000.

Halder, Mathis: *See*—

Antes, Gregor; Halder, Mathis; Fuchs, Paul; and Gehr, Peter, 4,685,138, Cl. 382-12.000.

Haldex AB: *See*—

Severinsson, Lars M., 4,699,256, Cl. 188-343.000.

Haldor Topsoe A/S: *See*—

Grate, John H.; and Hamm, David R., 4,687,872, Cl. 560-25.000.

Grate, John H.; Hamm, David R.; and Valentine, Donald H., 4,705,883, Cl. 560-25.000.

Grate, John H.; and Hamm, David R., 4,709,073, Cl. 560-24.000.

Haldric, Bernard; Benedi, Gregorio; and Pretot, Daniel, to NACAM. Device for adjusting a steering column of a motor vehicle provided with toggle locking means. 4,657,281, 4-14-87, Cl. 280-775.000.

Hale, Alan A., to General Electric Company. Triangular cutting tool insert having cutting edges with recesses. 4,681,486, 7-21-87, Cl. 407-114.000.

Hale, Alan A.: *See*—

Villa, Gino; Johnson, John R.; and Hale, Alan A., 4,668,132, Cl. 407-117.000.

Hale, Alan M.: *See*—

Euchner, Daniel C.; and Hale, Alan M., 4,662,399, Cl. 137-625.170.

Hale, Arthur D. Radio-tape recorder for automotive use. 4,713,801, 12-15-87, Cl. 369-7.000.

Hale, Bryan M.: *See*—

Hale, Cecil H.; Tanner, Alan R.; and Hale, Bryan M., 4,714,530, Cl. 204-131.000.

Hale, Cecil H.; Tanner, Alan R.; and Hale, Bryan M., to Southwestern Analytical Chemicals, Inc. Method for producing high purity quaternary ammonium hydroxides. 4,714,530, 12-22-87, Cl. 204-131.000.

Hale, Charles S.; Matzkin-Bridger, Andrew; and Morse, Ronald W., to Allied Corporation. Hermetically sealed fiber optic connector. 4,690,487, 9-1-87, Cl. 350-96.210.

Hale, D. E., Jr., to Precision Piping & Instruments, Inc. Pipe cutting apparatus. 4,667,936, 5-26-87, Cl. 266-55.000.

Hale Fire Pump Company: *See*—
- Eberhardt, H. Alfred, 4,633,895, Cl. 137-98.000.
- Eberhardt, H. Alfred, 4,643,652, Cl. 417-364.000.
- Eberhardt, H. Alfred; and Hoffman, Kenneth F., 4,653,978, Cl. 415-39.000.
- Eberhardt, H. Alfred, 4,676,065, Cl. 60-310.000.
- Eberhardt, H. Alfred, 4,690,613, Cl. 415-148.000.
- Eberhardt, H. Alfred; Broitman, Kalman; Evangelista, Richard A.; Teske, Richard E.; and Sulmone, Michael, 4,691,667, Cl. 123-633.000.
- Eberhardt, H. Alfred, 4,712,516, Cl. 123-1.00A.
- Eberhardt, H. Alfred, 4,715,327, Cl. 123-41.150.

Hale, Gary J.: *See*—
- Boratgis, James P.; and Hale, Gary J., 4,670,628, Cl. 379-69.000.

Hale, Isom H. Universally insertable, rotatable sleeve and cam coupling. 4,699,395, 10-13-87, Cl. 280-511.000.

Hale, Isom H. Self powered, roll-on and roll-off trailer. 4,704,062, 11-3-87, Cl. 414-494.000.

Hale, John E. ATV hunting stand. 4,696,374, 9-29-87, Cl. 182-127.000.

Hale, John G.: *See*—
- Humbach, Michael J.; and Hale, John G., 4,661,238, Cl. 208-61.000.

Hale, John K.: *See*—
- Voler, Franja F.; Hale, John K.; and Koch, Earl E., 4,653,253, Cl. 56-13.600.

Hale, John M.: *See*—
- Wright, Harry D.; Hale, John M.; and Weber, Eugen, 4,711,703, Cl. 204-1.00T.

Hale, Judy. Golf cart entertainment system. 4,702,342, 10-27-87, Cl. 180-333.000.

Hale, Neville E., to Fathom Oceanology Limited. Buoyancy-supported struts for ocean platforms. 4,636,114, 1-13-87, Cl. 405-224.000.

Hale, Neville E., to Fathom Oceanology Limited. Buoyancy support for deep-ocean struts. 4,656,962, 4-14-87, Cl. 114-264.000.

Hale, Neville E., to Fathom Oceanology Limited. Fairing for tow-cables. 4,700,651, 10-20-87, Cl. 114-243.000.

Hale, Ronald G.; Woodley, Thomas R.; and Tornstrom, Paul K., to Plastic Specialties and Technologies, Inc. Stain-resistant antimony organic sulfur-containing compounds and vinyl halide resins containing same. 4,642,200, 2-10-87, Cl. 252-400.540.

Hale, Shirley A. Lap hugger. 4,651,346, 3-24-87, Cl. 2-46.000.

Hale, Steven D.: *See*—
- May, Joe T.; and Hale, Steven D., 4,685,074, Cl. 364-564.000.
- Ross, Malcolm G.; May, Joe T.; and Hale, Steven D., 4,644,165, Cl. 250-372.000.

Hale, Stuart G.: *See*—
- Naven, Finbar; and Hale, Stuart G., 4,701,916, Cl. 371-15.000.

Hale, Thomas E.; and Yohe, Warren C., to General Electric Company. Process for adhering an oxide coating on a cobalt-enriched zone, and articles made from said process. 4,649,084, 3-10-87, Cl. 428-552.000.

Hale, William J.; Horst, William R.; and Riley, Ellen P., to NCR Corporation. Portable personal terminal for use in a system for handling transactions. 4,634,845, 1-6-87, Cl. 235-350.000.

Hale, William J.; and Horst, William R., to NCR Corporation. Method and system for providing system security in a remote terminal environment. 4,652,698, 3-24-87, Cl. 380-24.000.

Hale, William J.; Horst, William R.; and Creech, Arthur R., Jr., to NCR Corporation. System for handling transactions including a portable personal terminal. 4,689,478, 8-25-87, Cl. 235-380.000.

Halene, Clemens, to Mannesmann Aktiengesellschaft. Hydrogen storage. 4,667,815, 5-26-87, Cl. 206-0.700.

Hales, Bernard C., to Lucas Industries Public Limited Company. Heating device. 4,648,361, 3-10-87, Cl. 123-179.00H.

Hales, John H.: *See*—
- Wesson, David S.; Wall, Stanley J.; and Hales, John H., 4,693,314, Cl. 166-317.000.

Hales, Richard H.: *See*—
- Cranney, Don H.; Gordon, David L.; and Hales, Richard H., 4,678,524, Cl. 149-21.000.

Haley, Boyd E.; and Evans, Robert K., to University of Wyoming. 5-azido-deoxyuridine compounds and method of synthesis of the same. 4,672,111, 6-9-87, Cl. 536-29.000.

Haley, Charles T.: *See*—
- Hardage, Timothy W.; Haley, Charles T.; and Walker, William D., 4,712,356, Cl. 53-446.000.

Haley, Paul E., to Opex Corporation. Envelope contents extraction system. 4,649,694, 3-17-87, Cl. 53-381.00R.

Haley, Paul F.; Junk, Brian S.; Renaud, Merle A.; and Rentmeester, Paul C., to American Standard Inc. Centrifugal compressor controller for minimizing power consumption while avoiding surge. 4,686,834, 8-18-87, Cl. 62-209.000.

Haley, Richard J., to Quality Jewelry, Inc. Convertible earring construction. 4,700,552, 10-20-87, Cl. 63-12.000.

Haley, William J., to Borg-Warner Corporation. Hydraulic control system for continuously variable transmission. 4,712,453, 12-15-87, Cl. 74-866.000.

Halfacre, Mark A.: *See*—
- Owens, Alexander H.; Halfacre, Mark A.; and Pan, David S., 4,646,425, Cl. 29-571.000.
- Pan, David S.; Sarma, Kanak C.; Halfacre, Mark A.; Owens, Al ander H.; and Rosier, Brian K., 4,706,102, Cl. 357-23.500.

Halfman, Clarke J., to University of Health Sciences/The Chica Medical School. Homogeneous fluorescence ligang binding as based upon preferential alteration of the respective intensities bound and free label by solvent components. 4,640,898, 2-3-87, C 436-546.000.

Halford, Wayne R.: *See*—
- Goldstein, Samuel M.; and Halford, Wayne R., 4,661,080, C 446-84.000.

Halfpenny, Paul F., to Lockheed Corporation. Humidification fo mask. 4,705,033, 11-10-87, Cl. 128-201.130.

Halilovic, Esref. Device for generating vibrations. 4,682,896, 7-2 Cl. 366-120.000.

Halioua, Maurice; and Srinivasan, Venugopal, to New York Institu Technology. Method and apparatus for surface profilomet 4,641,972, 2-10-87, Cl. 356-376.000.

Halioua, Maurice, to New York Institute of Technology. Apparatus an method for obtaining three dimensional surface contours. 4,657,39 4-14-87, Cl. 356-376.000.

Halkey-Roberts Corporation: *See*—
- Lardner, George E., 4,681,132, Cl. 137-271.000.

Halkola, Kyle G.: *See*—
- Tustaniwskyj, Jerry I.; and Halkola, Kyle G., 4,698,728, C 361-385.000.

Hall, Alfred E.: *See*—
- Montgomery, John W.; Oliver, Earl H.; Hall, Alfred E.; and Siga los, John L., 4,703,573, Cl. 40-455.000.
- Oliver, Earl H.; Hall, Alfred E.; and Sigalos, John L., 4,656,468, C 340-802.000.

Hall, Antony H. P.; and McCarroll, John J., to British Petroleu Company p.l.c., The. Production of aromatics from hydrocarbo feedstock. 4,695,663, 9-22-87, Cl. 585-417.000.

Hall, Arthur B., to TP Orthodontics, Inc. Method of making an opti cally clear tooth positioning and retaining appliance. 4,695,2 9-22-87, Cl. 264-80.000.

Hall, Arthur C.; Schultz, E. Frank; and Wiener, Ludwig D., to Mob Oil Corporation. Method for cleaning a core sample from a subterra nean formation of solid contaminant particles. 4,687,523, 8-18-87, C 134-30.000.

Hall, Bradley G. Guard for skates. 4,673,196, 6-16-87, Cl. 280-825.0

Hall, Carlton. Rotary device. 4,673,372, 6-16-87, Cl. 446-239.000.

Hall, Carroll R.: *See*—
- Franke, David W.; and Hall, Carroll R., 4,710,763, Cl. 340-723.0

Hall, Charles B.; and Mondek, Martin J., to Outboard Marine Corpora tion. Relief valve for hydraulic systems. 4,682,759, 7-28-87, C 251-210.000.

Hall, Charles E., to Virginia Plastics Company. Multi-conduct shielded cable. 4,674,822, 6-23-87, Cl. 439-399.000.

Hall, Charles P.: *See*—
- Jacobson, Theodore L.; and Hall, Charles P., 4,688,283, C 5-449.000.

Hall, Christopher M., to National Semiconductor Corporation. Multi ple clock power down method and structure. 4,665,328, 5-12-87, C 307-582.000.

Hall, Christopher W. G., to Pilkington Brothers P.L.C. Window Pan 4,645,146, 2-24-87, Cl. 244-129.300.

Hall, Clifton W.: *See*—
- Thornton, Harold C., Jr.; and Hall, Clifton W., 4,693,671, C 416-43.000.

Hall, Dale: *See*—
- Silverthorne, Daniel F.; Hare, Claude H. M.; and Hall, Da 4,673,019, Cl. 160-268.00R.

Hall, Dale R.; Jackson, Robert L.; and Purks, Charles V., to B.F. Goodrich Company, The. Flame retardant polyurethane compos tions. 4,670,483, 6-2-87, Cl. 523-179.000.

Hall, David A.; and Yuergens, Kenneth C., to Borg-Warner Automo tive, Inc. Drive hub for torque converter clutch. 4,694,941, 9-22-8 Cl. 192-3.280.

Hall, David G., to Taylor Made Products Co. Article hanger. 4,706,8 11-17-87, Cl. 206-45.140.

Hall, David L.: *See*—
- Bocchicchio, Keith A.; Jackson, Mark F.; Hall, David L.; an Paukovits, Edward J., Jr., 4,649,633, Cl. 29-739.000.

Hall, David M.: *See*—
- McCullough, Francis P., Jr.; and Hall, David M., 4,643,931, C 428-97.000.

Hall, David R.; Hall, H. Tracy, Jr.; and Lauridsen, Christian L., t Megadiamond Industries, Inc. Burnishing diamond. 4,662,348, 5-5-8 Cl. 125-30.00R.

Hall, David R., to Smith International, Inc. Rock bit with diamond in inserts. 4,694,918, 9-22-87, Cl. 175-329.000.

Hall, David W. R.: *See*—
- Hofman, Petrus S.; Hall, David W. R.; and Jaitly, Kapil D. 4,710,571, Cl. 544-216.000.

Hall, Dennis G.: *See*—
- Holland, William R.; and Hall, Dennis G., 4,649,280, C 250-483.100.

Hall, Derrard M.: *See*—
- Adeney, Hilary E.; and Hall, Derrard M., 4,696,957, C 523-406.000.

Hall, Donald R.: *See*—
- Concordia, Joseph J.; and Hall, Donald R., 4,683,122, C 422-227.000.

Hall, Donna R. Wheelchair restraint system for vehicle. 4,688,84 8-25-87, Cl. 296-65.00R.

Hall, Dwayne A. Fishing line strike indicator. 4,679,345, 7-14-87, Cl. 43-17.000.

Hall, Edward A., to McDonnell Douglas Corporation. Reduced height monopole/crossed slot antenna. 4,684,953, 8-4-87, Cl. 343-725.000.

Hall, Edward J.: *See—*
Gubbay, Jacob D., and Hall, Edward J., 4,659,548, Cl. 419-10.000.

Hall, Ernest L.; and Ehtashami, Mohammad, to University of Cincinnati. Omnidirectional vision system for controlling mobile machines. 4,670,648, 6-2-87, Cl. 250-216.000.

Hall, Ernest M., Jr., to Oyo Corporation. Variflux vibration transducer 4,663,747, 5-5-87, Cl. 367-178.000.

Hall, Ernest M., Jr.; and Buis, Jeffrey A., to Oyo Corporation. Geophone cable splice and method. 4,710,593, 12-1-87, Cl. 174-88.00R.

Hall, Gaddis G. Tap connector. 4,707,051, 11-17-87, Cl. 439-781.000.

Hall, Gary W. Joggers fluid weighted exerciser jug. 4,712,794, 12-15-87, Cl. 272-122.000.

Hall, George D., to American Sterilizer Company. Variable height column with integral actuating means. 4,686,889, 8-18-87, Cl. 92-117.00A.

Hall, George R.: *See—*
Hall, Robert J.; Hall, George R.; and Cookerly, Jack C., 4,682,526, Cl. 84-1.030.

Hall, H. Tracy, Jr.; and Cerceau, Jean-Michel, to Megadiamond Industries, Inc.; and Societe Industrielle de Combustible Nucleaire. Polycrystalline cubic boron nitride compact. 4,647,546, 3-3-87, Cl. 501-96.000.

Hall, H. Tracy, Jr.: *See—*
Cerceau, Jean-Michel; and Hall, H. Tracy, Jr., 4,650,776, Cl. 501-96.000.
Hall, David R.; Hall, H. Tracy, Jr.; and Lauridsen, Christian L., 4,662,348, Cl. 125-30.00R.

Hall, Heinrich: *See—*
Haller, Andreas; Pfundstein, Werner; and Hall, Heinrich, 4,711,991, Cl. 235-132.00E.

Hall, Henri; and Rouget, Jean P., to Thomson Brandt Armements. Multi-head military charge. 4,688,486, 8-25-87, Cl. 102-489.000.

Hall, Henry B.: *See—*
Drapeau, Donald F.; Moore, Benjamin N.; and Hall, Henry B., 4,682,010, Cl. 219-381.000.

Hall, Henry K., Jr.; Sumitomo, Hiroshi; and Okada, Masahiko, to University Patents, Inc. Synthesis and ring-opening polymerization of bicyclic lactones containing a tetrahydropyran ring. 4,677,190, 6-30-87, Cl. 528-354.000.

Hall, Henry K., Jr.: *See—*
Calundann, Gordon W.; Rasoul, Husam A. A.; and Hall, Henry K., Jr., 4,654,412, Cl. 528-176.000.

Hall, Iris H.; and Brotherton, Robert J., to United States Borax & Chemical Corporation. Antihyperlipidemic ammonium polyboranes. 4,672,060, 6-9-87, Cl. 514-64.000.

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Hall, Iris H.: *See—*
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Hall, James E., to Firestone Tire & Rubber Company, The. Initiator systems for polymerization of 1,3-dienes or copolymers containing 1,3-dienes. 4,647,635, 3-3-87, Cl. 526-181.000.

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Hall, James R., to Rockwell International Corporation. Electromagnetic launcher assembly. 4,694,729, 9-22-87, Cl. 89-8.000.

Hall, James W. Folding utility horse. 4,640,386, 2-3-87, Cl. 182-155.000.

Hall, James W. Timing device. 4,683,747, 8-4-87, Cl. 73-119.00R.

Hall, Joe T.: *See—*
De Kelaita, Nergal R.; Hall, Joe T.; and Kietscher, Barrie D., 4,713,758, Cl. 364-200.000.

Hall, John: *See—*
Brown, Geoffrey J.; Griggs, John C.; and Hall, John, 4,646,369, Cl. 4-365.000.

Hall, John B., to International Flavors & Fragrances Inc. Uses of methyl phenyl pentanol derivatives in augmenting or enhancing the aroma or taste of consumable materials. 4,650,898, 3-17-87, Cl. 560-254.000.

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Hall, John L., and Hansch, Theodor W., to Stanford University. External laser frequency stabilizer. 4,700,150, 10-13-87, Cl. 332-751.000.

Hall, John M., to Rolls-Royce Limited. Variable configuration exhaust discharge opening for a jet propulsion engine. 4,638,946, 1-27-87, Cl. 239-265.330.

Hall, Johnce E.: *See—*
Chiu, Hin; and Hall, Johnce E., 4,701,076, Cl. 405-224.000.

Hall, Joseph P. Fishing lure. 4,638,586, 1-27-87, Cl. 43-42.130.

Hall, Kenneth E.: *See—*
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Hall, Kenneth F.; and Chambers, George, to Martock Design Limited. Adjustable mountings. 4,635,887, 1-13-87, Cl. 248-179.000.

Hall, Kenneth W.: *See—*
Jaksa, Tibor S.; Norton, Richard F.; Hall, Kenneth W.; Butler, Stephen J.; Chicoine, Craig C.; and Bienz, Wilford L., 4,715,103, Cl. 29-156.40R.

Hall, Larry; and Goodacre, John H., to Chevron Research Company. Membrane seal for a removable bottom founded structure. 4,695,200, 9-22-87, Cl. 405-224.000.

Hall, Larry D., to Moog Inc. Piston-and-cylinder arrangement with radially-yieldable piston head. 4,691,621, 9-8-87, Cl. 92-184.000.

Hall, Larry J.: *See—*
Beskow, Robert H.; Dunn, Patrick J.; Goodacre, John H.; Hall, Larry J.; Fischer, William H.; and Carlson, E. Ronald, 4,695,201, Cl. 405-224.000.
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Hall, Laurance D.; and Norwood, Timothy J., to University of British Columbia, The. Zero quantum NMR imaging and spectroscopy in a low homogeneity magnetic field. 4,703,270, 10-27-87, Cl. 324-309.000.

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Hall, Lawrence A.: *See—*
Blair, Bryce W.; and Hall, Lawrence A., 4,647,130, Cl. 339-64.00M.
Blair, Bryce W.; and Hall, Lawrence A., 4,664,456, Cl. 339-14.00P.

Hall, Lawrence P.: *See—*
Davis, Jeffrey L.; Evans, Daniel S.; and Hall, Lawrence P., 4,693,098, Cl. 70-233.000.

Hall, Leon. Apparatus for converting a standard telephone to an unlisted number telephone. 4,639,552, 1-27-87, Cl. 379-199.000.

Hall, Leslie C., Jr.; Meyer, David L.; and Wolfe, Brian A., to AMP Incorporated. Cable harness assembly apparatus. 4,682,391, 7-28-87, Cl. 29-33.00M.

Hall, Lester B. Breathing apparatus. 4,637,387, 1-20-87, Cl. 128-205.240.

Hall, Marilyn: *See—*
Jenkins, Robert H., Jr.; Mitchell, Edward; Gaetani, Frank J.; Mahusky, John J.; and Hall, Marilyn, 4,713,087, Cl. 44-53.000.

Hall, Mark J., and Hyun, Kun S., to Dow Chemical Company, The. Vinylidene chloride interpolymer possessing improved extrudability. 4,692,508, 9-8-87, Cl. 528-503.000.

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Hall, Marvin Z. Deadbolt lock. 4,682,482, 7-28-87, Cl. 70-129.000.

Hall, Mitchell A., to Monarch Tool & Manufacturing Company. Coin chute construction and method of making same. 4,640,405, 2-3-87, Cl. 194-235.000.

Hall, Neil R. Color mixture indicator device. 4,657,399, 4-14-87, Cl. 356-421.000.

Hall, Norman W.: *See—*
Sawran, William R.; Turrill, Frank H.; Newman, John W.; Hall, Norman W.; and Ward, Clifford, 4,671,864, Cl. 208-22.000.

Hall, Paul H.; Riley, Steven A.; and Rizos, Robert G., to Sloan Technology Corporation. Electromagnetic stylus force adjustment mechanism. 4,669,300, 6-2-87, Cl. 73-105.000.

Hall, Phillip E.: *See—*
Titus, John D.; and Hall, Phillip E., 4,691,634, Cl. 102-245.000.

Hall & Pickles Limited: *See—*
Clapham, William S., 4,657,308, Cl. 299-81.000.

Hall, Randall C., to O. I. Corporation. Electrolytic conductivity detection process. 4,649,124, 3-10-87, Cl. 436-150.000.

Hall, Reginald E.: *See—*
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Hall, Rex D.: *See—*
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Hall, Richard A.; and Rosenfeld, Jeffrey I., to Standard Oil Company (Indiana). Process for obtaining narrow molecular weight distribution in vinyl aromatic mass polymerization system. 4,713,421, 12-15-87, Cl. 525-242.000.

Hall, Richard C. Control gate assembly. 4,665,650, 5-19-87, Cl. 49-334.000.

Hall, Richard E., to FMC Corporation. Process for purifying yellow phosphorus. 4,664,896, 5-12-87, Cl. 423-304.000.

Hall, Robert B.: *See—*
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Hall, Robert C. Projectile with an extendable boattail. 4,674,70 6-23-87, Cl. 244-3.300.

Hall, Robert C.: *See—*
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Hall, Robert E., to Great Plains Industries, Inc. Digital flow meter for dispensing fluids. 4,700,579, 10-20-87, Cl. 73-861.780.

Hall, Robert J.; Karakis, Charles H.; and Kielek, Matt, to Hall, Robert J. Routers. 4,655,653, 4-7-87, Cl. 409-182.000.

Hall, Robert J.; Hall, George R.; and Cookerly, Jack C. Accompaniment note selection method. 4,682,526, 7-28-87, Cl. 84-1.030.

Hall, Robert L.; Franckx, Joris R. I.; Overbergh, Noel M. M.; Doucet, Jos; and Vansant, Jan, to Raychem Corporation. Flexible envelope seal and sealing method. 4,685,683, 8-11-87, Cl. 277-1.000.

Hall, Robert T., II: *See—*
Riehm, Terri L.; and Hall, Robert T., II, 4,699,728, Cl. 252-142.000.

Hall, Roger E. Locator plug for ground anchor. 4,634,120, 1-6-87, Cl. 273-25.000.

Hall, Roger G.: *See—*
Dingwall, John G.; Ehrenfreund, Josef; Hall, Roger G.; and Jack, James, 4,656,298, Cl. 556-12.000.

Hall, Ronald H.: *See—*

  Atwood, Mark T.; and Hall, Ronald H., 4,713,177, Cl. 210-697.000.

Hall, Rowland G., to King Bros. Industries. Ball valve and method for assembling same. 4,665,937, 5-19-87, Cl. 137-15.000.

Hall, Samuel R., to Alumax, Inc. Fire resistant dual layer bimetallic door frame. 4,674,248, 6-23-87, Cl. 52-212.000.

Hall, Scott D.: *See—*

  Bierkamp, James A.; Hall, Scott D.; and Smith, Wade W., 4,683,942, Cl. 165-53.000.

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  Rudish, Ronald M.; and Hall, Scott F., 4,652,879, Cl. 342-371.000.

Hall, Scott M., to Motorola, Inc. Maximum distance from zero crossing MSK demodulator. 4,669,095, 5-26-87, Cl. 375-90.000.

Hall, Shelby J.; Olekna, David J.; and Davies, Donald M., Jr., to Ortho Diagnostic Systems Inc. Particle washing and separation method. 4,698,311, 10-6-87, Cl. 436-10.000.

Hall, Shirl F. Recreational watercraft. 4,698,033, 10-6-87, Cl. 440-27.000.

Hall, Spencer S.; and Kistner, Joseph M. Strap-on leveling/plumbing device kit. 4,663,856, 5-12-87, Cl. 33-373.000.

Hall, Stanley D.: *See—*

  Dyer, John; Kennette, John W.; Bassett, Alton H.; and Hall, Stanley D., 4,639,253, Cl. 604-362.000.

Hall, Stephen, to Intalite International N.V. Clip for a suspended ceiling. 4,640,077, 2-3-87, Cl. 52-665.000.

Hall, Stephen G., to Wimpey Laboratories Limited. Apparatus for forming a grouted member in deep water. 4,701,074, 10-20-87, Cl. 405-169.000.

Hall, Steven E.; and Nakane, Masami, to E. R. Squibb & Sons, Inc. 7-oxabicycloheptane substituted aminoalkyl amide prostaglandin analogs. 4,656,185, 4-7-87, Cl. 514-382.000.

Hall, Steven E.; Haslanger, Martin F.; and Varma, Ravi K., to E. R. Squibb & Sons, Inc. 7-oxabicycloheptane substituted ox prostaglandin analogs. 4,661,506, 4-28-87, Cl. 511-382.000.

Hall, Steven E.: *See—*

  Loots, Melanie J.; Hall, Steven E.; and Sprague, Peter W., 4,647,585, Cl. 514-530.000.

  Nakane, Masami; and Hall, Steven E., 4,652,578, Cl. 514-382.000.

Hall, Sture; and Persson, Bertil. Apparatus for preparing the edges of metal sheets to be welded. 4,648,762, 3-10-87, Cl. 409-138.000.

Hall Surgical, division of Zimmer, Inc.: *See—*

  Linden, Harry A., 4,641,076, Cl. 320-2.000.

  Pascaloff, John H., 4,641,077, Cl. 320-2.000.

  Pascaloff, John H., 4,641,551, Cl. 74-785.000.

  Peterson, Drew, 4,639,980, Cl. 24-306.000.

  Yeomans, Hugh D., 4,653,338, Cl. 74-318.000.

Hall Systems, Inc.: *See—*

  Wakefield, James R., 4,648,056, Cl. 364-567.000.

Hall, Terry P. Friction game call. 4,662,858, 5-5-87, Cl. 446-397.000.

Hall, Thomas E.: *See—*

  Rahrig, Thomas F.; and Hall, Thomas E., 4,690,478, Cl. 439-271.000.

Hall, Timothy L. Machine and apparatus for making baskets. 4,678,016, 7-7-87, Cl. 147-48.000.

Hall, Trevor J.; and Beechey, Robert E., to Victaulic Company PLC, The; and Rutland Plastics Limited. Cutting tools. 4,643,057, 2-17-87, Cl. 82-36.00R.

Hall Vandis, Nancy. Therapeutic doll figure. 4,710,145, 12-1-87, Cl. 446-100.000.

Hall, Walter J.; Lin, Chester H.; Ramos, Joel A.; and Rogers, Edward J., to S&C Electric Company. Linear operating mechanism for electrical switches. 4,636,602, 1-13-87, Cl. 200-153.0SC.

Hall, Wilbur S., to Amchem Products, Inc. Treating autodeposited coating with Cr composition. 4,637,839, 1-20-87, Cl. 148-6.200.

Hall, William E.; Gailey, Edward D.; and Ovanin, George J., to S-P Manufacturing Corporation, The. Workholder. 4,685,687, 8-11-87, Cl. 279-119.000.

Hall, William F.: *See—*

  Warren, Leslie F., Jr.; Maus, Louis; and Hall, William F., 4,710,401, Cl. 427-121.000.

Hall, William G.: *See—*

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Hall-Wilton, Michael J.: *See—*

  Sperinck, William A.; and Hall-Wilton, Michael J., 4,638,675, Cl. 73-864.340.

Hallam, Paul D.: *See—*

  Bell, Richard; Hallam, Paul D.; and Foxton, Michael W., 4,666,899, Cl. 514-200.000.

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  Hofman, Jan, 4,680,521, Cl. 318-649.000.

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Hallay, Alexander R., to Advance Transformer Company. Ignition circuit for high pressure arc discharge lamps. 4,695,771, 9-22-87, Cl. 315-290.000.

Hallberg, Anders: *See—*

  Kjelgaard, Tom; Hallberg, Anders; and Jacobsson, Kenth, 4,715,528, Cl. 229-123.100.

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Hallberg, Karl R. S. Method and device for detecting wheels with deformed treads in railroad vehicles. 4,702,104, 10-27-87, Cl. 73-146.000.

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Hallberg, Rolf O.; and Martinell, Rudolf H. Process for decreasing th nitrate content in water. 4,683,064, 7-28-87, Cl. 210-605.000.

Hallcher, Richard C.; and Zeable, Zane V., to Monsanto Compan Electrolytic preparation of perfluoroalkanoic acids, perfluoroal anols and perfluoroalkyl esters. 4,647,350, 3-3-87, Cl. 204-59.00F.

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  Fejes, Peter; and Hallden, Eva, 4,636,292, Cl. 204-404.000.

Halldorsson, Thorsteinn; Manhart, Sigmund; and Seiffarth, Ernst A. to Messerschmitt-Bolkow-Blohm GmbH. Laser detection devic 4,674,874, 6-23-87, Cl. 356-152.000.

Halldorsson, Thorsteinn; and Seiffarth, Ernst A., to Messerschmitt-Bo kow-Blohm GmbH. Laser radiation warning sensor utilizing pola ization. 4,682,024, 7-21-87, Cl. 250-225.000.

Halleck, Michael E., to Westward Electronics, Inc. Static charg control device having laminar flow. 4,689,715, 8-25-87, C 361-213.000.

Hallen Company: *See—*

  Allen, Herbert, 4,703,673, Cl. 81-3.290.

Hallenbach, Werner; Lindel, Hans; and Brandes, Wilhelm, to Baye Aktiengesellschaft. Fungicidal thienylurea derivatives. 4,692,46 9-8-87, Cl. 514-443.000.

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Hallenbeck, Mark; and Frankenbush, Robert H., to FTS Equipmen Manufacturing Co. Dual reel continuous wire winding machine wi robotic reel loading mechanism. 4,637,564, 1-20-87, Cl. 242-25.00A.

Hallenbeck, Victor L.; and Rhee, Chong K., to Uniroyal Goodrich Tir Company, The. Inside and outside tire paint for green tires. 4,666,5 5-19-87, Cl. 106-38.250.

Haller, Andreas; Pfundstein, Werner; and Hall, Heinrich, to IVO Ir & Vosseler Zahlerfabrik GmbH & Co. Counting apparatus. 4,711,9 12-8-87, Cl. 235-132.00E.

Haller, Hans, to Brown Boveri Reaktor GmbH. Crash protectio apparatus for a device for pulling a tube out of a tube sheet of a hea exchanger. 4,707,912, 11-24-87, Cl. 29-726.000.

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Haller, Irene. Disposable syringe with retractable cannula. 4,692,15 9-8-87, Cl. 604-195.000.

Haller, Neil M.; and Smoot, Lanny S., to Bell Communications Research, Inc. Optical ring network. 4,704,713, 11-3-87, Cl. 370-3.00

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  Lotz, Werner; Fuchs, Karlheinz; and Haller, Siegmund, 4,715,36 Cl. 8-94.180.

Haller, Walter, to Robinson Industries, Limited. Appliance suppor 4,659,047, 4-21-87, Cl. 248-274.000.

Hallerback, Stig, to Aktiebolaget SKF. Sealing ring for a bearing lubricating system. 4,669,894, 6-2-87, Cl. 384-477.000.

Hallerback, Stig L., to Aktiebolaget SKF. Mounting tool. 4,677,72 7-7-87, Cl. 29-280.000.

Hallett, Allan: *See—*

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Hallford, Ben R.; and Varian, Karl R., to Rockwell International Corporation. Dual signal amplitude modifying and combining apparatu 4,713,620, 12-15-87, Cl. 328-150.000.

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Hallgren, John E.; and Brezniak, Diane V., to General Electric Company. Method for making norbornane anhydride substituted polyorganosiloxane. 4,634,755, 1-6-87, Cl. 528-23.000.

Hallgren, John E.; Policastro, Peter P.; Chao, Herbert S.; and Johnson, Bruce C., to General Electric Company. Mixtures including polyphenylene ethers and lactams and resinous compositions prepared therefrom. 4,678,839, 7-7-87, Cl. 525-390.000.

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  Ayers, William M.; and Basak, Jayanta K., 4,653,421, Cl 114-270.000.

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  Barrington, Burchus Q.; Evans, Robert T.; and Hackney, Bernard L., 4,646,829, Cl. 166-125.000.

  Barrington, Burchus Q., 4,669,539, Cl. 166-120.000.

  - Berryman, Leslie N.; Davis, Gail F., and Hornek, Herbert J., 4,701,095, Cl. 414-332.000.
  - Black, Robert H.; Wilson, John M.; and Brown, James M., 4,670,165, Cl. 252-8.551.
  - Bolin, Michael L., 4,662,447, Cl. 166-278.000.
  - Bolin, Michael L., 4,671,361, Cl. 166-377.000.
  - Brisco, David P., 4,658,895, Cl. 166-237.000.
  - Brisco, David P.; and Bolin, Michael L., 4,662,446, Cl. 166-278.000.
  - Brisco, David P., 4,662,453, Cl. 166-387.000.
  - Brothers, Lance E., 4,640,942, Cl. 523-130.000.
  - Bullock, Mark E., 4,638,278, Cl. 335-207.000.
  - Burkhalter, John F.; and Weigand, Willis A., 4,687,516, Cl. 106-90.000.
  - Burris, Wesley J., II; and Ringgenberg, Paul D., 4,655,288, Cl. 166-319.000.
  - Busch, Randolph A., 4,648,444, Cl. 166-65.100.
  - Byrd, Audis C.; Morris, Robert J.; Black, Robert H.; and Weaver, Jimmie D., Jr., 4,661,321, Cl. 422-111.000.
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  - Childs, Jerry D.; Sutton, David L.; and Sabins, Freddie L., 4,676,832, Cl. 106-90.000.
  - Christensen, Jon B., 4,711,123, Cl. 73-151.000.
  - Cole, R. Clay, and Bowles, Bobby K., 4,690,961, Cl. 523-440.000.
  - Colle, Edward A., Jr.; Yates, Donald N., Jr.; and Brieger, Emmet F., 4,702,168, Cl. 102-313.000.
  - Copland, George V., and Barrington, Burchus Q., 4,673,890, Cl. 33-178.00F.
  - Daming, Kenneth W., 4,671,353, Cl. 166-70.000.
  - Davis, James L., 4,654,802, Cl. 364-502.000.
  - Denison, William J.; Smith, Lancing G.; and Walker, Lonnie R., 4,715,308, Cl. 114-72.000.
  - Dill, Walter R.; Walker, Michael L.; and Ford, William G. F., 4,679,631, Cl. 166-307.000.
  - Duncan, Richard L.; Lynch, Michael J.; Forehand, Gilbert H.; White, Billy W.; and Richardson, J. Mark, 4,663,628, Cl. 340-853.000.
  - Edwards, A. Glen; Wesson, David S.; and Brieger, Emmet F., 4,693,317, Cl. 166-378.000.
  - Ford, William G.; and Hollenbeak, Keith H., 4,663,059, Cl. 252-8.55C.
  - Fore, William M.; and Caskey, Kenneth D., 4,648,446, Cl. 166-123.000.
  - Forehand, Gilbert H.; and Lynch, Michael J., 4,675,649, Cl. 340-347.0AD.
  - Forehand, Gilbert H.; Lynch, Michael J.; Duncan, Richard L.; Tilghman, Stephen E.; and Penn, Jack C., 4,709,234, Cl. 340-856.000.
  - Freese, Dwight L.; Frey, Emory L.; and Cogbill, Randall B., 4,648,264, Cl. 73-64.100.
  - Frey, Emory L.; Looper, David W.; and Daunis, Eugene J., 4,700,567, Cl. 73-151.000.
  - Fry, Slaton E.; Childs, Jerry D.; Brothers, Lance E.; and Lindsey, Donald W., 4,676,317, Cl. 166-293.000.
  - Fry, Slaton E.; Childs, Jerry D.; Brothers, Lance E.; and Lindsey, Donald W., 4,703,801, Cl. 166-293.000.
  - George, Flint R., 4,637,478, Cl. 175-4.510.
  - George, Flint R.; and Smith, Marlin R., 4,650,010, Cl. 175-4.520.
  - George, Flint R.; and Haugen, David M., 4,655,298, Cl. 175-4.520.
  - George, Flint R.; and Smith, Marlin R., 4,690,227, Cl. 175-4.560.
  - Grigar, Larry L., 4,664,184, Cl. 166-55.100.
  - Handke, Wayne A., and Priest, Mark A., 4,698,510, Cl. 250-506.100.
  - Handke, Wayne A.; and Priest, Mark A., 4,712,618, Cl. 166-308.000.
  - Harmon, Bobby R., 4,659,486, Cl. 252-8.500.
  - Hollenbeak, Keith H., and Brown, Paul S., Jr., 4,693,639, Cl. 405-263.000.
  - Hushbeck, Donald F.; and Caskey, Kenneth D., 4,651,829, Cl. 166-332.000.
  - Luers, Thomas J., 4,700,777, Cl. 166-185.000.
  - Luke, Robert R.; Barker, James M.; Smith, Michael L.; Grigar, Larry L.; and Miller, Carl B., 4,678,044, Cl. 175-4.520.
  - Luke, Robert R.; and Barker, James M., 4,693,308, Cl. 166-55.100.
  - Lynch, Michael J.; Forehand, Gilbert H.; Duncan, Richard L.; Tilghman, Stephen E.; and Penn, Jack C., 4,665,398, Cl. 340-853.000.
  - Mallett, A. J., and Minear, John W., 4,700,803, Cl. 181-106.000.
  - Manke, Kevin R., 4,646,838, Cl. 166-321.000.
  - Manke, Kevin R., 4,664,196, Cl. 166-378.000.
  - Manke, Kevin R., 4,665,991, Cl. 166-373.000.
  - McMahan, Michael E.; Newman, Daniel A.; Winslow, Donald W.; and Zunkel, Gary D., 4,691,779, Cl. 166-321.000.
  - Mueller, James W.; and Berning, Scott A., 4,668,911, Cl. 324-208.000.
  - Murphey, Joseph R.; Totty, Kenneth D.; and Fulton, Susan V., 4,665,988, Cl. 166-295.000.
  - Nickles, Robert B., Jr., 4,661,020, Cl. 405-227.000.
  - Nunley, Allen, 4,638,159, Cl. 250-267.000.
  - Peelman, Harold E., 4,657,724, Cl. 376-119.000.
  - Penny, Glenn S., 4,702,849, Cl. 252-8.554.
  - Purfurst, Ernest H., 4,671,322, Cl. 137-625.270.
  - Regalbuto, John A.; Mayes, Philip W.; and Behling, William C., 4,655,138, Cl. 102-307.000.
  - Ringgenberg, Paul D., 4,633,952, Cl. 166-336.000.
  - Ringgenberg, Paul D., 4,650,001, Cl. 166-373.000.
  - Ringgenberg, Paul D., 4,657,082, Cl. 166-336.000.
  - Ringgenberg, Paul D., 4,657,083, Cl. 166-374.000.
  - Ringgenberg, Paul D., 4,665,983, Cl. 166-250.000.
  - Ringgenberg, Paul D.; and Beck, Harold K., 4,667,743, Cl. 166-321.000.
  - Ringgenberg, Paul D.; Newman, Daniel A.; and Beck, Harold K., 4,693,316, Cl. 166-355.000.
  - Ringgenberg, Paul D., 4,694,903, Cl. 166-250.000.
  - Ringgenberg, Paul D., 4,711,305, Cl. 166-336.000.
  - Sabins, Fred L.; Sutton, David L.; and Johnson, Johnny W., 4,653,313, Cl. 73-61.400.
  - Sandy, Joe M.; and Smith, Gerald D., 4,649,999, Cl. 166-295.000.
  - Scala, Carl, 4,698,500, Cl. 250-256.000.
  - Schultz, Ward E., 4,665,486, Cl. 364-422.000.
  - Schultz, Ward E.; and Smith, Harry D., Jr., 4,691,102, Cl. 250-256.000.
  - Schultz, Ward E.; and Smith, Harry D., Jr., 4,700,300, Cl. 364-422.000.
  - Schwartz, Robert J., 4,634,863, Cl. 250-262.000.
  - Scott, Theron A.; and Evans, Robert T., 4,696,344, Cl. 166-182.000.
  - Smith, Harry D., Jr.; and Verbout, Jerry L., 4,638,161, Cl. 250-269.000.
  - Smith, Harry D., Jr., 4,698,499, Cl. 250-256.000.
  - Smith, Michael L.; and Hensley, Donald E., 4,700,778, Cl. 166-250.000.
  - Smith, William H.; and Vinson, Edward F., 4,640,361, Cl. 166-288.000.
  - Son, Adelina J.; and Loftin, Royal E., 4,647,859, Cl. 324-323.000.
  - Sonne, Darrell S.; and Beard, William J., 4,638,158, Cl. 250-266.000.
  - Sonne, Darrell S.; and Nunley, Allen, 4,638,164, Cl. 250-366.000.
  - Stepp, Lee W.; Baldridge, Morris G.; and Treece, Harold O., 4,683,955, Cl. 166-327.000.
  - Stepp, Lee W.; and Giroux, Richard L., 4,712,619, Cl. 166-327.000.
  - Sumner, Cyril R., 4,690,218, Cl. 166-297.000.
  - Szarka, David D., 4,669,538, Cl. 166-120.000.
  - Szarka, David D., 4,697,640, Cl. 166-120.000.
  - Tilghman, Stephen E.; Duncan, Richard L.; and Kaufman, Bruce A., 4,669,082, Cl. 371-21.000.
  - Toellner, Robert L., and Copland, George V., 4,707,699, Cl. 342-352.000.
  - Totty, Charles D., 4,675,259, Cl. 429-157.000.
  - Vann, Roy R.; Brieger, Emmet F.; George, Flint R.; Colle, Edward A., Jr.; and Jones, Hilton B., 4,635,733, Cl. 175-4.560.
  - Vinson, Edward F.; and Smith, William H., 4,691,558, Cl. 73-64.100.
  - Walker, Lonnie R.; Berryman, Leslie N.; Guffee, Larry E.; Ripley, David E.; and Prucha, David A., 4,715,721, Cl. 366-132.000.
  - Walker, Michael L.; Ford, William G. F.; Dill, Walter R.; and Gdanski, Ricky D., 4,683,954, Cl. 166-307.000.
  - Wesson, David S.; Edwards, A. Glen; George, Flint R.; George, Kevin R.; and Brieger, Emmert F., 4,658,902, Cl. 166-317.000.
  - Wesson, David S.; Wall, Stanley J.; and Hales, John H., 4,693,314, Cl. 166-317.000.
  - White, Bill W., 4,697,641, Cl. 166-243.000.
  - White, Kevin M.; and Beck, Harold K., 4,706,746, Cl. 166-106.000.
  - Wienck, Dennis A.; and Mints, Danny K., 4,682,506, Cl. 73-863.540.
  - Wienck, Dennis A., 4,697,613, Cl. 137-171.000.
  - Womack, Terry D., 4,659,993, Cl. 324-375.000.
  - Yates, Donald N., Jr., 4,660,638, Cl. 166-250.000.
  - Young, Bill M., 4,660,642, Cl. 166-280.000.
  - Young, Bill M., 4,669,543, Cl. 166-276.000.
  - Zeller, Vincent P.; and Burris, Wesley J., II, 4,689,744, Cl. 364-422.000.
  - Zimmer, Mark D., 4,658,383, Cl. 367-29.000.
  - Zimmer, Mark D., 4,684,947, Cl. 340-858.000.
  - Zunkel, Gary D., 4,633,943, Cl. 166-51.000.
  - Zunkel, Gary D.; and Bolin, Michael L., 4,633,944, Cl. 166-51.000.
  - Zunkel, Gary D., 4,635,716, Cl. 166-51.000.
  - Zunkel, Gary D.; and Bolin, Michael L., 4,638,859, Cl. 166-51.000.
  - Zunkel, Gary D.; Stepp, Lee W.; and Bolin, Michael L., 4,664,188, Cl. 166-134.000.
- Halliburton Services: *See—*
  - Brothers, Lance E., 4,700,780, Cl. 166-293.000.
- Halliday, Bruce W.: *See—*
  - Sutera, Richard; Dressler, John L.; and Halliday, Bruce W., 4,638,327, Cl. 346-75.000.
- Halliday, William S.; and Thielen, Vincent M., to Newpark Drilling Fluid Inc. Drilling mud additive. 4,664,818, 5-12-87, Cl. 252-8.511.
- Halling, Horace P.; and Oh, Se J., to Pressure Science Incorporated. Gimbal joint for piping systems. 4,643,463, 2-17-87, Cl. 285-226.000.
- Halling, Horace P., to Pressure Science Incorporated. V-coupling for installation in narrow annular spaces. 4,681,353, 7-21-87, Cl. 285-411.000.
- Hallisey, William F. Orthopedic brace having elongated limiting element bendable in one direction only. 4,669,457, 6-2-87, Cl. 128-80.00C.
- Hallissy, Robert P.; Isakov, Edmund; Stephenson, Earle W.; and Rowlett, Don C., to Kennametal Inc. Grader blade with casting/insert assembly on leading edge. 4,715,450, 12-29-87, Cl. 172-701.300.
- Halliwell, Harry, to International Business Machines Corporation. Realtime tracking of a movable cursor. 4,675,665, 6-23-87, Cl. 340-707.000.
- Halliwell, Michael J.; and Zahavi, Joseph. Laser induced selective electroless plating. 4,681,774, 7-21-87, Cl. 427-53.100.
- Halliwell, Michael J.; and Zahavi, Joseph. Selective electroless plating. 4,686,114, 8-11-87, Cl. 427-53.100.

Hallman, Robert: *See—*
Von Hellens, Walter; Mohammed, Sheikh A. H.; and Hallman, Robert, 4,645,793, Cl. 524-518.000.
Hallman, Steven J.: *See—*
Anders, William S.; and Hallman, Steven J., 4,653,602, Cl. 180-79.100.
Hallmark Cards, Inc.: *See—*
Knipp, Randall S.; and Loyd, Lewis, 4,710,158, Cl. 493-328.000.
Sanders, Robert E.; Flynn, Charles J.; and Vertreese, John L., 4,682,079, Cl. 315-186.000.
Sanders, Robert E.; Knipp, Jerry L.; and Flynn, Charles J., 4,693,541, Cl. 439-541.000.
Shafer, Donald A.; Walker, Ronald; and Yeo, Clarence, 4,659,446, Cl. 204-212.000.
Walker, Ronald; Shafer, Donald A.; and Yeo, Clarence, 4,647,354, Cl. 204-212.000.
Hallmark Cargo Services, Inc.: *See—*
Arnel, Donald M., 4,643,064, Cl. 83-522.000.
Hallmark, Richard G.: *See—*
Quick, Wilson M.; and Hallmark, Richard G., 4,649,825, Cl. 102-307.000.
Hallock, William A., to Minnesota Mining & Manufacturing Company. Heat-recoverable sheet for use as protective closure. 4,699,821, 10-13-87, Cl. 428-192.000.
Halloran, Kevin J. Three-sided tip tray. 4,679,691, 7-14-87, Cl. 206-557.000.
Halloran, Timothy P.: *See—*
Serrone, Michael J.; Halloran, Timothy P.; and Wagner, Gary L., 4,675,558, Cl. 307-527.000.
Hallqvist, Ellert, to SMT Machine Company AB. Tool changer. 4,641,413, 2-10-87, Cl. 29-568.000.
Halls, Kenneth F., to Acoustic Industries, Inc. Method of refurbishing building panels. 4,666,540, 5-19-87, Cl. 156-98.000.
Halls, Lawrence M.: *See—*
Wynn, Edward J.; Musser, Glenn A.; and Halls, Lawrence M., 4,641,490, Cl. 56-10.200.
Hallstrom, Olof A., Jr. Reciprocating conveyor. 4,691,819, 9-8-87, Cl. 198-750.000.
Hallsworth, Rodney S.; and Wirsig, Ralph C., to Du Pont Canada Inc. Continuous high speed spin-draw-texturing process for nylon yarn. 4,648,240, 3-10-87, Cl. 57-288.000.
Halm, Horst: *See—*
Hendrich, Klaus; Halm, Horst; Blaseck, Klaus; and Hoffmeister, Lothar, 4,664,873, Cl. 376-260.000.
Halme, Aarne: *See—*
Manninen, Markku; and Halme, Aarne, 4,685,054, Cl. 364-191.000.
Halmi, Dezsoe, to D. Halmi and Associates, Inc. Flow measuring device for liquids bearing entrained solids. 4,671,109, 6-9-87, Cl. 73-198.000.
Halmi, Dezsoe, to D. Halmi and Associates, Inc. Flow measuring device for partially filled conduits. 4,671,119, 6-9-87, Cl. 73-215.000.
Halmos, Jozsef: *See—*
Nagy nee Kricsfalussy, Margit; Zavodszky nee Szabo, Anna; Rakoczi, Jozsef; and Halmos, Jozsef, 4,661,340, Cl. 424-47.000.
Halmos, Maurice J.; and Henderson, David M., to Hughes Aircraft Company. Chirp laser stabilization system. 4,660,206, 4-21-87, Cl. 372-28.000.
Halmos, Maurice J.: *See—*
Duvall, Robert L., III; Halmos, Maurice J.; and Henderson, David M., 4,662,741, Cl. 356-5.000.
Duvall, Robert L., III; Halmos, Maurice J.; and Henderson, David M., 4,666,295, Cl. 356-5.000.
Halo Optical Products, Inc.: *See—*
Leonardi, Peter F., 4,688,272, Cl. 2-431.000.
Halocarbon Products Corporation: *See—*
Elliott, Arthur J., 4,634,797, Cl. 570-171.000.
Halogen Insulator & Seal Corp.: *See—*
Domkowski, Ron, 4,652,528, Cl. 436-56.000.
Halomet Inc.: *See—*
Aldrich, Robert G.; Earl, Geoffrey H.; and Trunko, David W., 4,698,289, Cl. 430-106.600.
Halonen, Heino T. K.; and Pohjonen, Jukka I., to Elevator GmbH. Bridge and stopper mechanism for an apparatus for lateral transfer of roller pallets. 4,673,326, 6-16-87, Cl. 414-286.000.
Halper, Warren: *See—*
Dryman, William K.; Blake, Walter R.; and Halper, Warren, 4,654,768, Cl. 362-374.000.
Halpern, Alfred: *See—*
Leslie, Stewart T.; Rhodes, Alan; Boroda, Cyril; and Halpern, Alfred, 4,654,209, Cl. 424-80.000.
Halpern, Gregory; and Gould, Jack U. Plastic article containing a top coat comprising an albumin and polysaccharide mixture. 4,657,820, 4-14-87, Cl. 428-476.600.
Halpern, Gregory J., to Pain Prevention, Inc. Dental anesthesia apparatus. 4,676,257, 6-30-87, Cl. 128-787.000.
Halpern, Howard J., to President and Fellows of Harvard College. Magnetic resonance analysis of substances in samples that include dissipative material. 4,714,886, 12-22-87, Cl. 324-316.000.
Halpern, John W., to Paperless Accounting, Inc. Proximity data transfer system. 4,661,691, 4-28-87, Cl. 235-375.000.
Halpern, Offer. Vehicle and assembly locking and wrenching apparatus. 4,674,306, 6-23-87, Cl. 70-233.000.
Halpern, Peter H.; Mallory, Peter E.; Haug, Paul E.; and Koos, William M., Jr., to Sophisticated Signals and Circuits. Apparatus for synchronizing linear PN sequences. 4,649,549, 3-10-87, Cl. 380-32.000.
Halpern, Peter H.; Mallory, Peter E.; Haug, Paul E.; and Koos, W
M., Jr. Adaptive bit synchronizer. 4,672,637, 6-9-87, Cl. 375
Halpern, Yuval, to Borg-Warner Chemicals, Inc. Polyphenylene thermoplastic protected from discoloration during process 4,695,601, 9-22-87, Cl. 524-362.000.
Halpert, Stuart M., to Marston, Inc. Stackable booster chair. 4,662
5-5-87, Cl. 297-239.000.
Halpin, Nicholas P.: *See—*
Camm, David M.; Kjorvel, Arne; Halpin, Nicholas P.; and H
den, Anthony J. D., 4,700,102, Cl. 313-24.000.
Halsell, H. Lee, to Mead Corporation, The. Packaging container f
electric motor. 4,706,809, 11-17-87, Cl. 206-319.000.
Halseth, William L.: *See—*
Elliott, Donald P.; and Halseth, William L., 4,715,856,
604-321.000.
Halskov, Soren, to Farmaceutisk Laboratorium Ferring A/S. Packag
stable enema solution or suspension containing 5-aminosalic
acid. 4,664,256, 5-12-87, Cl. 206-213.100.
Halssig, Andreas; Moosmann, Horst; Winterhalter, Walter; and W
phal, Gunter, to Gebruder Junghans GmbH. Projectile
4,653,402, 3-31-87, Cl. 102-245.000.
Halssig, Andreas: *See—*
Lindstadt, Klaus; Halssig, Andreas; Maier, Dietmar; and S
Stefan, 4,712,480, Cl. 102-427.000.
Winterhalter, Walter; and Halssig, Andreas, 4,691,635,
102-251.000.
Halstead, Christopher, to Myson Heating Limited. Terminal unit
balanced flue. 4,690,129, 9-1-87, Cl. 126-85.00B.
Halstead, Larry D.: *See—*
Copland, Donald S.; Halstead, Larry D.; and O'Brien, Lawr
E., 4,684,025, Cl. 206-484.000.
Halstead, Raymond T.: *See—*
Black, Charles E., III; and Halstead, Raymond T., 4,678,24
439-77.000.
Halstead, W. G.: *See—*
Shimirak, Gerlad L.; Hunter, Thomas; Story, Martha F.; Hal
W. G.; Chan, Paul S.; and Swinmurn, Christopher J., 4,70
Cl. 174-93.000.
Haltenorth, Helmut: *See—*
Falkenstein, Rudolf; Haberland, Detlef; Kaindl, Michael; Hal
orth, Helmut; Prussas, Herbert; and Taumberger, F
4,707,066, Cl. 350-96.200.
Haberland, Detlef; Langenwalter, Michael; Panzer, Klaus; Ro
Hans G.; Spaeter, Lothar; Spaeth, Werner; Seibert, Bernd; a
Haltenorth, Helmut, 4,707,067, Cl. 350-96.200.
Halter, Edward Arnold; Purcell, Billy D.; and Toutant, Edward E.
International Business Machines Corporation. Ribbon drive coup
and cartridge tilt arrangement for print line visibility. 4,636
1-13-87, Cl. 400-208.000.
Halter, Hartmut, to Reifenhauser GmbH & Co. Method of produc
blown thermoplastic foil with low thickness tolerances. 4,71
12-8-87, Cl. 264-40.200.
Halterman, Diane; and Henley, Thomas, to Amchem Products In
Manganese removal from aqueous industrial waste efflu
4,707,273, 11-17-87, Cl. 210-724.000.
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Aalto, Erkki; Yla-Hemmila, Veikko; and Villikka, Reijo, 4,674
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Aalto, Erkki; and Yla-Hemmila, Veikko, 4,678,005, Cl. 137-49
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Mattila, Timo, 4,656,510, Cl. 358-101.000.
Haltrich, Walter: *See—*
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ger, Wolfgang; Haltrich, Walter; and Simmler, W
4,696,749, Cl. 210-721.000.
Halushka, Perry V.: *See—*
Eller, Thomas D.; Halushka, Perry V.; Knapp, Daniel R.; and Ma
Dale, 4,695,647, Cl. 560-53.000.
Haluyama, Takeshi: *See—*
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Halverson, Ann M.: *See—*
Fong, Dodd W.; and Halverson, Ann M., 4,713,178,
210-734.000.
Halverson, Henry J., to Olin Corporation. High velocity
ammunition sabot. 4,653,404, 3-31-87, Cl. 102-520.000.
Halverson, Ross, to Kaultronics, Inc. Dish antenna structure. 4,710
12-1-87, Cl. 343-840.000.
Halverson, Thomas R.: *See—*
Wilkinson, James P.; and Halverson, Thomas R., 4,701,750,
340-384.00E.
Halvig, Melvin W. Bicycle-type exercise machine. 4,664,372, 5-12
Cl. 272-73.000.
Halvis, James: *See—*
Bluzer, Nathan; and Halvis, James, 4,652,339, Cl. 156-661.10
Halvorsen, Hjalmar S. Roller skate arrangement. 4,659,095, 4-21-8
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Halvorsen, James: *See—*
Dzewaltowski, Victor F.; Halvorsen, James; and Check, Joh
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Halvorsen, Magne: *See—*
Sorlien, Per H.; Helgaker, Iver A.; Halvorsen, Magne; and Ro
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Halvorsen, Robert M.: *See—*
Bradley, Jerome R.; Halvorsen, Robert M.; and Long, Gregor
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Halvorsen, Wilmer P. Rolling boat cover. 4,641,600, 2-10-87, Cl. 114-361.000.

Halwa, Rueben: *See*—
- Brodrecht, Gerald L. C.; and Halwa, Rueben. 4,686,817, Cl. 53-567.000.

Halwani, Mohammed. Sesame seeds husking method. 4,693,903, 9-15-87, Cl. 426-456.000.

Ham, George E.; Chen, Wun-Nan; and McIntyre, John M., to Dow Chemical Company, The. Electroconductive polymer-latex composites. 4,678,601, 7-7-87, Cl. 252-500.000.

Ham, Mooyoung, to SFE Technologies. Nonthermionic hollow anode gas discharge electron beam source. 4,647,818, 3-3-87, Cl. 315-111.210.

Ham, Patrick L.: *See*—
- Crafts, Harold S.; and Ham, Patrick L., 4,647,798, Cl. 307-451.000.

Ham, Richard G.: *See*—
- Boyce, Steven T.; and Ham, Richard G., 4,673,649, Cl. 435-240.000.

Ham, Yong S. Baseball exercising device. 4,679,790, 7-14-87, Cl. 273-26.00E.

Hama, Hideki: *See*—
- Hirosaki, Yukihiro; Koike, Seiji; Hamada, Motonobu; Ohhata, Takahiko; Inoue, Yasuo; Karibe, Haruyuki; and Hama, Hideki, 4,671,844, Cl. 156-542.000.

Hama, Hiroaki: *See*—
- Iijima, Hiroshi; and Hama, Hiroaki, 4,672,822, Cl. 62-468.000.

Hama, Jun-ichi: *See*—
- Terao, Kazuo; Kubo, Tsutomu; Hyakutake, Nobuo; Tachibana, Hidekiyo; Hama, Jun-ichi; Teshigawara, Touru; and Kajimoto, Masashi, 4,707,428, Cl. 430-102.000.

Hama, Masaaki: *See*—
- Hashimoto, Tadanori; Hama, Masaaki; and Kobayashi, Osamu, 4,649,003, Cl. 264-63.000.

Hama, Ritsuo: *See*—
- Ito, Kazuo; Kudo, Toshiyuki; and Hama, Ritsuo, 4,697,074, Cl. 250-211.00R.

Hama, Shinji: *See*—
- Nagai, Shoichi; Hiraoka, Saburo; Hama, Shinji; and Senga, Mitsuo, 4,659,386, Cl. 106-120.000.

Hama, Tomio, to Kabushiki Kaisha Harmo. Plastic-mold cutting apparatus using supersonic waves. 4,685,602, 8-11-87, Cl. 225-93.000.

Hama, Toshio, to Fuji Electric Company Ltd. Non-crystalline semiconductor solar battery and method of manufacture thereof. 4,700,463, 10-20-87, Cl. 437-2.000.

Hama, Yasuo; and Takaku, Shigetake, to Hitachi, Ltd. Ultrasonic probe jig. 4,680,969, 7-21-87, Cl. 73-661.000.

Hama, Yoshihiro: *See*—
- Okudaira, Sadao; Hama, Yoshihiro; and Urata, Shinji, 4,652,931, Cl. 358-227.000.

Hama, Yoshihisa: *See*—
- Wakamiya, Sukeyoshi; Takeuchi, Naokazu; Hama, Yoshihisa; Akashi, Tatsu; and Shimura, Tatsuo, 4,666,394, Cl. 425-342.100.

Hamabe, Kenji: *See*—
- Kaneda, Hiroshi; Mitsumori, Masahito; and Hamabe, Kenji, 4,664,609, Cl. 418-137.000.

Hamabe, Yoshifumi: *See*—
- Ueno, Hideo; Kuno, Hiroshi; and Hamabe, Yoshifumi, 4,639,151, Cl. 400-63.000.
- Ueno, Hideo; Kuno, Hiroshi; and Hamabe, Yoshifumi, 4,671,683, Cl. 400-61.000.

Hamacher, Edward N. Infusion needle. 4,699,612, 10-13-87, Cl. 604-51.000.

Hamacher, Martin. Electrical device for use in an explosive environment. 4,698,456, 10-6-87, Cl. 174-11.00R.

Hamacher, Matthias: *See*—
- Schellenberg, Lutz; Hamacher, Matthias; and Broadbent, Ronald, 4,636,264, Cl. 148-6.200.
- Schellenberg, Lutz; Hamacher, Matthias; and Ahmed, Bashir M., 4,639,319, Cl. 210-651.000.

Hamada, Akifumi: *See*—
- Shimomura, Hiroshi; Iizuka, Kazuo; Harano, Makoto; and Hamada, Akifumi, 4,714,383, Cl. 407-42.000.

Hamada, Akihiko: *See*—
- Yamada, Mikio; and Hamada, Akihiko, 4,679,794, Cl. 273-235.00R.

Hamada, Akiyoshi, to Minolta Camera Kabushiki Kaisha. Laser recording apparatus. 4,679,057, 7-7-87, Cl. 346-76.00L.

Hamada, Eiichi; Nakashima, Atushi; and Kamo, Jun, to Mitsubishi Rayon Co., Ltd. Blood oxygenator using a hollow fiber membrane. 4,659,549, 4-21-87, Cl. 422-48.000.

Hamada, Eiichi: *See*—
- Takemura, Tohru; Nakashima, Atushi; Yoshida, Haruhiko; Kamo, Jun; and Hamada, Eiichi, 4,639,353, Cl. 422-46.000.
- Watanabe, Hiroyuki; Hamada, Eiichi; Hayashi, Motomu; and Ono, Kenji, 4,697,386, Cl. 49-374.000.

Hamada, Fukusaburo: *See*—
- Ohtomo, Nobuya; Mizuno, Kyosuke; Hamada, Fukusaburo; and Mizokami, Hiroshi, 4,710,378, Cl. 424-89.000.

Hamada, Fumio: *See*—
- Shimba, Satoru; Iwamuro, Masao; Ito, Kenji; Suzuki, Katutoyo; and Hamada, Fumio, 4,666,825, Cl. 430-385.000.

Hamada, Genichi, to Yoshida Kogyo K. K. Parts feeder with chute. 4,633,995, 1-6-87, Cl. 193-2.00R.

Hamada, Hideki; and Shimizu, Tsutomu, to Toyota Jidosha Kabushiki Kaisha; and Kabushiki Kaisha Tokai Rika Denki Seisakusho. Three-point type seatbelt system for vehicle. 4,645,232, 2-24-87, Cl. 280-801.000.

Hamada, Hiroshi; Funada, Fumiaki; and Matsuura, Masataka, to Sharp Kabushiki Kaisha. Liquid crystal input/output matrix panel. 4,679,909, 7-14-87, Cl. 350-333.000.

Hamada, Hiroshi; Nakazawa, Kiyoshi; Take, Hiroshi; Kimura, Naofumi; and Funada, Fumiaki, to Sharp Kabushiki Kaisha. Lighting apparatus. 4,706,173, 11-10-87, Cl. 362-341.000.

Hamada, Hiroshi: *See*—
- Funada, Fumiaki; Hamada, Hiroshi; and Inoue, Osamu, 4,680,505, Cl. 313-558.000.
- Takeda, Makoto; Yamamoto, Kunihiko; Matsuhashi, Nobuaki; Kimura, Naofumi; Hamada, Hiroshi; and Take, Hiroshi, 4,651,148, Cl. 340-805.000.

Hamada, Hiroyoshi: *See*—
- Kuwabara, Yoshiharu; and Hamada, Hiroyoshi, 4,637,680, Cl. 350-6.800.
- Kuwabara, Yoshiharu; and Hamada, Hiroyoshi, 4,639,141, Cl. 356-387.000.

Hamada, Hisashi: *See*—
- Yogome, Yoshihiro; Itsuki, Sheizi; Shimizu, Tokuzu; Shimizu, Tsutomu; and Hamada, Hisashi, 4,665,873, Cl. 123-373.000.

Hamada, Hozumi: *See*—
- Omoda, Koichiro; Hamada, Hozumi; and Takahashi, Sakae, 4,675,809, Cl. 364-200.000.

Hamada, Katushi: *See*—
- Miyagi, Tokuya; Inoue, Akihisa; Hamada, Katushi; Fujimori, Shoichi; and Hori, Yoshihiro, 4,663,041, Cl. 210-493.200.

Hamada, Ken; Wada, Masaru; and Itoh, Kunio, to Matsushita Electric Industrial Co., Ltd. A high-output semiconductor laser of dove tail groove type. 4,716,571, 12-29-87, Cl. 372-48.000.

Hamada, Ken: *See*—
- Wada, Masaru; Shimizu, Hirokazu; Shibutani, Takao; Itoh, Kunio; Hamada, Ken; and Teramoto, Iwao, 4,675,074, Cl. 156-647.000.

Hamada, Kiyoshi; Watanabe, Masanori; Nonomura, Kinzo; Katsuyama, Minoru; and Hirano, Riyuma, to Matsushita Electric Industrial Co., Ltd. Apparatus and method of operation for an electron beam source. 4,651,058, 3-17-87, Cl. 315-98.000.

Hamada, Kiyoshi: *See*—
- Tomii, Kaoru; and Hamada, Kiyoshi, 4,694,225, Cl. 315-366.000.

Hamada, Masa: *See*—
- Umezawa, Hamao; Aoyagi, Takaaki; Takeuchi, Tomio; Hamada, Masa; and Ishizuka, Masaaki, 4,663,342, Cl. 514-423.000.
- Umezawa, Hamao; Takeuchi, Tomio; Hamada, Masa; Naganawa, Hiroshi; Sawa, Tsutomu; Imoto, Masaya; Iinuma, Hironobu; Uchida, Takeshi; and Isshiki, Kunio, 4,686,308, Cl. 564-219.000.
- Umezawa, Hamao; Takeuchi, Tomio; Nagatsu, Toshiharu; Hamada, Masa; Iwadare, Shuichi; Matsumoto, Ikuo; and Morishima, Hajime, 4,699,879, Cl. 435-116.000.

Hamada, Masataka: *See*—
- Ishida, Tokuji; and Hamada, Masataka, 4,636,624, Cl. 250-201.000.
- Ishida, Tokuji; and Hamada, Masataka, 4,650,309, Cl. 354-408.000.
- Taniguchi, Nobuyuki; Omaki, Takanobu; Ishikawa, Norio; Nakai, Masaaki; Ishida, Tokuji; and Hamada, Masataka, 4,702,584, Cl. 354-400.000.
- Taniguchi, Nobuyuki; Ishida, Tokuji; Hamada, Masataka; Karasaki, Toshihiko; and Norita, Toshio, 4,716,434, Cl. 354-408.000.

Hamada, Mitsuo: *See*—
- Saito, Masayuki; and Hamada, Mitsuo, 4,681,636, Cl. 106-287.150.

Hamada, Motonobu: *See*—
- Hirosaki, Yukihiro; Koike, Seiji; and Hamada, Motonobu, 4,666,319, Cl. 400-120.000.
- Hirosaki, Yukihiro; Koike, Seiji; Hamada, Motonobu; Ohhata, Takahiko; Inoue, Yasuo; Karibe, Haruyuki; and Hama, Hideki, 4,671,844, Cl. 156-542.000.

Hamada, Nagaharu: *See*—
- Kojima, Yasuyuki; Hamada, Nagaharu; and Hori, Yasuro, 4,649,401, Cl. 346-76.0PH.
- Nakamura, Koozoo; Hamada, Nagaharu; Tadauchi, Masaharu; Kozima, Yasuyuki; Suemori, Noboru; and Kouno, Takamitu, 4,694,351, Cl. 358-256.000.
- Nakamura, Kozoo; Kozima, Yasuyuki; Hamada, Nagaharu; and Sakata, Kunihiro, 4,713,699, Cl. 358-296.000.

Hamada, Norihiko, to Kabushiki Kaisha Universal. Slot machine with reel [illegible]tion detector. 4,637,611, 1-20-87, Cl. 273-143.00R.

Hamada, Osamu: *See*—
- Kitazato, Naohisa; and Hamada, Osamu, 4,661,982, Cl. 381-103.000.

Hamada, Shigeki: *See*—
- Sakurai, Shigeru; and Hamada, Shigeki, 4,644,926, Cl. 123-569.000.
- Tanaka, Hideki; Tokushima, Takashige; Higashi, Haruki; and Hamada, Shigeki, 4,699,097, Cl. 123-192.00R.
- Yoshioka, Sadashichi; Matsuoka, Tsutomu; Hamada, Shigeki; and Hinatase, Humio, 4,702,218, Cl. 623-559.000.

Hamada, Shinji: *See*—
- Tago, Tomohisa; Hamada, Shinji; Ichikawa, Shinichi; and Tanase, Yoshimoto, 4,659,927, Cl. 250-318.000.

Hamada, Shuji; and Yamamoto, Akira, to Niigata Engineering Co., Ltd. Method for feeding a work. 4,708,582, 11-24-87, Cl. 414-786.000.

Hamada, Tadashi: *See*—
- Tsuji, Eiji; Okabe, Hirobumi; Ike, Hideo; Uratani, Fumihiro; Ota, Takashi; Kaneda, Hiroshi; Hanatate, Yuko; Hamada, Tadashi; and Oonishi, Hironobu, 4,668,585, Cl. 428-469.000.

Hamada, Tadatsugu: *See*—
- Kuwabara, Hideki; Naito, Masato; Watanabe, Teishiro; and Hamada, Tadatsugu, 4,711,287, Cl. 164-34.000.

Hamada, Taizo, to Matsushita Electric Industrial Co., Ltd. Apparatus for optimizing contact between a rotating flexible magnetic sheet and a magnetic head. 4,652,959, 3-24-87, Cl. 360-130.300.

- Hamada, Takayoshi: *See—*
  - Onizuka, Masakazu; Tatani, Atsushi; Hamada, Takayoshi; and Omoto, Setsuo, 4,683,210, Cl. 436-50.000.
  - Onizuka, Masakazu; Tatani, Atsushi; and Hamada, Takayoshi, 4,683,211, Cl. 436-50.000.
- Hamada, Takuji: *See—*
  - Tomizawa, Hiroshi; Okada, Masakazu; Yasumoto, Seiichi; Mizokawa, Sadao; Fushimi, Hitoshi; Onuki, Ken; Takahashi, Masahiro; and Hamada, Takuji, 4,704,714, Cl. 370-15.000.
- Hamada, Tetsuro: *See—*
  - Kawamoto, Yoshimich; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, 4,687,216, Cl. 280-91.000.
  - Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, 4,695,068, Cl. 280-91.000.
  - Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, 4,697,816, Cl. 280-91.000.
  - Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, 4,703,822, Cl. 180-140.000.
  - Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, 4,703,945, Cl. 280-91.000.
  - Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, 4,705,135, Cl. 180-236.000.
  - Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, 4,706,976, Cl. 280-91.000.
- Hamada, Toyohide; and Hirabayashi, Hisaaki, to Hitachi, Ltd. Working/assembling system. 4,674,181, 6-23-87, Cl. 29-703.000.
- Hamada, Toyohide; Sugimoto, Koichi; Koizumi, Kiyohide; and Arai, Shinichi, to Hitachi, Ltd. Industrial robot. 4,674,947, 6-23-87, Cl. 414-735.000.
- Hamada, Yasunori: *See—*
  - Udagawa, Tsugio; Akatsu, Toshio; and Hamada, Yasunori, 4,667,997, Cl. 294-86.400.
- Hamada, Yoneichi: *See—*
  - Matsuo, Kazuhiko; Hasegawa, Teruyuki; Kuwano, Seigo; Yamaguchi, Ryuji; Shiwata, Akio; Hamada, Yoneichi; Komatsu, Yoshimi; Kondo, Tsuneo; Shirotani, Yusuke; Nakashima, Hirohisa; and Matsuda, Yasuhiro, 4,674,101, Cl. 373-95.000.
- Hamada, Yousuke: *See—*
  - Sakurai, Masao; Hamada, Yousuke; Ninomiya, Morimasa; Takechi, Toshihide; Nakagawa, Kunihiro; and Fujii, Takashi, 4,633,735, Cl. 74-675.000.
- Hamaekers, Arno; and Rudolf, Hans-Joachim, to Carl Freudenberg, Firma. Hydraulically damped elastic motor mount having an improved grid and partition arrangement. 4,666,137, 5-19-87, Cl. 267-140.100.
- Hamagaki, Takayasu: *See—*
  - Takeuchi, Masatoshi; and Hamagaki, Takayasu, 4,715,150, Cl. 51-395.000.
- Hamaguchi, Hiroaki: *See—*
  - Yokoyama, Yoichi; Hamaguchi, Hiroaki; and Yamamoto, Masatoshi, 4,703,294, Cl. 335-121.000.
- Hamaguchi, Masayuki: *See—*
  - Takagi, Yoshito; Wakahara, Yasuyuki; Hamano, Satoru; Mori, Masanori; Hamaguchi, Masayuki; and Yoshikawa, Naoki, 4,673,838, Cl. 310-239.000.
- Hamaguchi, Mitsuhiro: *See—*
  - Aoike, Nanjou; Ide, Katsuyuki; Kobayashi, Hisao; and Hamaguchi, Mitsuhiro, 4,635,052, Cl. 340-811.000.
- Hamaguchi, Setsunori; and Hanaoka, Sumio, to Kurosaki Refractories Co., Ltd. Method for application of refractory spray material. 4,683,151, 7-28-87, Cl. 427-397.800.
- Hamaguchi, Toshiaki; Namikawa, Kazuhira; Nakamura, Mutsuaki; Kuroda, Akio; and Akai, Toshio, to Victor Company of Japan, Ltd. High density information record medium using carbon black particles surface-treated with silicone oil. 4,646,284, 2-24-87, Cl. 369-276.000.
- Hamaguchi, Toshiaki: *See—*
  - Namikawa, Kazuhira; Hamaguchi, Toshiaki; Nakamura, Mutsuaki; and Kuroda, Akio, 4,639,908, Cl. 369-288.000.
- Hamaguri, Kenji, to Minolta Camera Kabushiki Kaisha. Noninvasive device for photoelectrically measuring the property of arterial blood. 4,694,833, 9-22-87, Cl. 128-633.000.
- Hamaguri, Kenji; and Sakai, Takao, to Minolta Camera Kabushiki Kaisha. Multi-wavelength oximeter having a means for disregarding a poor signal. 4,714,341, 12-22-87, Cl. 356-41.000.
- Hamai Electric Lamp Co., Ltd.: *See—*
  - Hamai, Jitsuo, 4,693,692, Cl. 445-66.000.
- Hamai, Jitsuo, to Hamai Electric Lamp Co., Ltd. Apparatus for manufacturing small-size gas-filled lamps. 4,693,692, 9-15-87, Cl. 445-66.000.
- Hamai, Kyugo, to Nissan Motor Company, Limited. Fuel supply system for internal combustion engine. 4,694,797, 9-22-87, Cl. 123-339.000.
- Hamajima, Kaneo; Dohnomoto, Tadashi; Tanaka, Atsuo; and Kubo, Masahiro, to Toyota Jidosha Kabushiki Kaisha. Production of pistons having a cavity. 4,712,600, 12-15-87, Cl. 164-97.000.
- Hamajima, Muneki: *See—*
  - Murakami, Seiro; and Hamajima, Muneki, 4,639,604, Cl. 250-548.000.
- Hamajima, Shigemitsu: *See—*
  - Yasuda, Keiji; Oda, Yukihisa; Hamajima, Shigemitsu; Ishii, Masami; Nakanishi, Katsumi; Tsuzuki, Takayoshi; and Tsuda, Jyou, 4,714,804, Cl. 200-11.0DA
- Hamakawa, Toshihiro: *See—*
  - Fujii, Setsuro; Ogawa, Kazuo; Hamakawa, Toshihiro; and Muranaka, Yoshiyuki, 4,675,428, Cl. 558-52.000.
- Hamakawa, Yoshihiro; Yamagishi, Hideo; and Tawada, Yoshihisa, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Method for production of semiconductor by glow discharge decomposition of sila 4,634,601, 1-6-87, Cl. 427-39.000.
- Hamakawa, Yoshihiro: *See—*
  - Tsuge, Kazunori; Tawada, Yoshihisa; and Hamakawa, Yoshih 4,670,762, Cl. 357-2.000.
- Hamalainen, Risto J.: *See—*
  - Koistinen, Paul A. T.; and Hamalainen, Risto J., 4,698,994, C 72-145.000.
- Hamamatsu Photonics Kabushiki Kaisha: *See—*
  - Hara, Tsutomu, 4,678,286, Cl. 350-356.000.
  - Hirai, Nobuyuki; and Watanabe, Mitsuo, 4,704,522, Cl. 25 213.0VT.
  - Kato, Makoto; Takiguchi, Yoshihiro; and Kinoshita, Katsuyu 4,704,634, Cl. 358-217.000.
  - Kinoshita, Katsuyuki; Shinoda, Kazunori; Sugiyama, Masa Ooba, Kouichiro; and Suzuki, Yoshiji, 4,677,341, Cl. 315-12.0
  - Kinoshita, Katsuyuki, 4,694,220, Cl. 315-10.000.
  - Kinoshita, Katsuyuki; and Suzuki, Yoshiji, 4,698,544, C 313-379.000.
  - Kobayashi, Masayasu; and Eno, Julius R., Jr., 4,698,550, C 313-618.000.
  - Oba, Koichiro, 4,692,938, Cl. 378-62.000.
  - Oba, Koichiro, 4,709,140, Cl. 250-207.000.
  - Oba, Koichiro, 4,714,825, Cl. 250-213.0VT.
  - Tsuchiya, Yutaka; Koishi, Musubu; and Takeshima, Aki 4,645,918, Cl. 250-213.0VT.
  - Tsuchiya, Yutaka; Koishi, Musubu; and Takeshima, Aki 4,694,154, Cl. 250-213.0VT.
  - Tsuchiya, Yutaka; Aoshima, Shinichirou; and Takeshima, Aki 4,705,397, Cl. 356-345.000.
- Hamamatsu Systems, Inc.: *See—*
  - Allemand, Charly D., 4,655,592, Cl. 356-237.000.
- Hamamoto, Hideo: *See—*
  - Yamai, Yoshihiro; Hamamoto, Hideo; and Nishibe, Masa 4,689,728, Cl. 362-268.000.
- Hamamoto, Masaya: *See—*
  - Maebayashi, Jiro; and Hamamoto, Masaya, 4,708,389, C 296-107.000.
  - Maebayashi, Jiro; and Hamamoto, Masaya, 4,711,485, C 296-108.000.
  - Moriyama, Naomune; and Hamamoto, Masaya, 4,650,030, C 180-292.000.
- Hamamoto, Takashi: *See—*
  - Munakata, Hirohide; Tomida, Yoshinori; Haruta, Masahiro; Hir Yutaka; Nishimura, Yukuo; and Hamamoto, Takashi, 4,634,6 Cl. 430-325.000.
  - Ozawa, Kunitaka; Haruta, Masahiro; Eida, Tsuyoshi; a Hamamoto, Takashi, 4,664,815, Cl. 210-96.100.
  - Ozawa, Kunitaka; Haruta, Masahiro; Eida, Tsuyoshi; a Hamamoto, Takashi, 4,698,151, Cl. 210-96.100.
- Hamamoto, Tatsuo: *See—*
  - Akiba, Yutaka; Hirota, Kazuo; Kishiro, Nobuo; Futami, Tosh and Hamamoto, Tatsuo, 4,694,423, Cl. 365-2.000.
- Hamamoto, Toshikazu; Aoi, Motojirou; Yoshida, Kozaburo; and Tod Yasuhiko, to Ube Industries, Ltd. Resin composition for seal electronic parts, and hydration-resistant magnesia powder and pr cess for preparation thereof. 4,677,026, 6-30-87, Cl. 428-404.000.
- Hamamoto, Youichi: *See—*
  - Tabata, Shin-ichi; Suzuki, Tomio; Hamamoto, Youichi; Hayakaw Noboru; and Watanabe, Kaoru, 4,655,925, Cl. 210-605.000.
- Haman, Frederic E.; and Schmoke, Keith E., to R. P. Scherer Corpo tion. Target shooting capsules. 4,656,092, 4-7-87, Cl. 428-402.200.
- Hamanaga, Shinji, to Nippon Gakki Seizo Kabushiki Kaisha. Va shifting mechanism for a brass instrument. 4,696,454, 9-29-87, C 251-321.000.
- Hamanaka, Hiroyoshi. Spatter preventing method. 4,662,558, 5-5-87, C 228-118.000.
- Hamanaka, Kenjiro; Nozu, Shinsaku; Sato, Katsuharu; and Tana Hozumi, to Pioneer Electronic Corporation. Focus error detect device for an optical recording/playing back system. 4,663,7 5-5-87, Cl. 369-45.000.
- Hamanaka, Kenjiro: *See—*
  - Maeda, Takanori; and Hamanaka, Kenjiro, 4,660,191, C 369-46.000.
  - Nozu, Shinsaku; Sato, Katsuharu; Tanaka, Hozumi; and Hamana Kenjiro, 4,658,391, Cl. 369-45.000.
- Hamanaka, Tadashi: *See—*
  - Miyashita, Yoshinobu; Hamanaka, Tadashi; and Iwata, Ke 4,714,675, Cl. 435-32.000.
  - Sakata, Yoshitsugu; Hamanaka, Tadashi; Iwata, Kenzi; and N aue, Misato, 4,665,038, Cl. 436-97.000.
  - Sakata, Yoshitsugu; Miyashita, Yoshibonu; Hamanaka, Tada Kodera, Hiroyuki; Miki, Yutaka; Yamanishi, Kazuhiko; Hanada, Toshiro, 4,695,539, Cl. 435-10.000.
- Hamanaka, Tatsumi: *See—*
  - Ikenaga, Takao; Shigematsu, Toshifumi; Hamanaka, Tatsumi; Hirahara, Manabu, 4,667,350, Cl. 4-304.000.
- Hamanaka, Toshiyuki: *See—*
  - Ogawa, Yutaka; Yamada, Shunichi; and Hamanaka, Toshiy 4,642,210, Cl. 264-62.000.
- Hamanishi, Yoshinari, to Nippon Kogaku K. K. Four-group teleph zoom lens. 4,641,928, 2-10-87, Cl. 350-427.000.
- Hamanishi, Yoshinari, to Nippon Kogaku K. K. Rear conversion 4,653,871, 3-31-87, Cl. 350-422.000.
- Hamanishi, Yoshinari, to Nippon Kogaku K. K. Rear-focus conver device lens for telephoto lens. 4,653,877, 3-31-87, Cl. 350-465.00

Hamanishi, Yoshinari, to Nippon Kogaku K. K. Rear focus conversion lens apparatus. 4,655,558, 4-7-87, Cl. 350-465.000.
Hamann, Philip R.: *See—*
  Still, W. Clark; Hamann, Philip R., and Bhagwat, Shripad S., 4,672,131, Cl. 549-268.000.
Hamano, Fumio: *See—*
  Hasegawa, Akira; Shibata, Takanori; and Hamano, Fumio, 4,654,890, Cl. 455-607.000.
Hamano, Hidenobu: *See—*
  Ikeda, Taro; Yahiro, Teruo; Yoshida, Hiroshi; Nishi, Kenji; Isobe, Takahisa; Kume, Yoichi; and Hamano, Hidenobu, 4,688,648, Cl. 175-242.000.
Hamano, Hideo; Takeshita, Keiji; and Funato, Yasumichi, to Toyota Jidosha Kabushiki Kaisha. Dynamic damper. 4,697,781, 10-6-87, Cl. 248-559.000.
Hamano, Hideo; Sugita, Jun; and Watanabe, Takashi. Apparatus for converting interchangeable camera lens from manual into autofocus. 4,712,900, 12-15-87, Cl. 354-400.000.
Hamano, Hideo: *See—*
  Takeshita, Keiji; Hamano, Hideo; Ohshima, Shoichi; Suzuki, Takaaki; and Ida, Shuichiro, 4,674,600, Cl. 184-6.120.
Hamano, Hiroaki; and Shibazaki, Kenji, to Minolta Camera Kabushiki Kaisha. Copying machine. 4,657,380, 4-14-87, Cl. 355-55.000.
Hamano, Koichi; Yamato, Hajime; and Karasawa, Hideo, to Tokyo Electric Co., Ltd. Sales data processing system. 4,661,908, 4-28-87, Cl. 364-405.000.
Hamano, Masanori; Takeuchi, Siro; and Inoue, Ichiro, to Ekika Carbon Dioxide Co., Ltd. Indicator for detecting residual ethylene oxide. 4,678,640, 7-7-87, Cl. 422-56.000.
Hamano, Satoru: *See—*
  Takagi, Yoshito; Wakahara, Yasuyuki; Hamano, Satoru; Mori, Masanori; Hamaguchi, Masayuki; and Yoshikawa, Naoki, 4,673,838, Cl. 310-239.000.
Hamano, Seitaro: *See—*
  Kamei, Noboru; Ikeda, Kinjiro; Aoyama, Keishi; and Hamano, Seitaro, 4,639,294, Cl. 203-88.000.
Hamano, Takashi: *See—*
  Takarada, Mitsuhiro; Ishii, Hiroshi; Arai, Yutaka; and Hamano, Takashi, 4,657,951, Cl. 523-153.000.
Hamano, Tsutomu; and Shikano, Hiroshi, to NCR Corporation. Apparatus for adjusting the print head gap in a dot matrix printer. 4,702,629, 10-27-87, Cl. 400-56.000.
Hamant, Jean-Pierre: *See—*
  Courjaret, Francois; Del Fabbro, Gilbert; Devic, Jean-Noel; Divoux, Michel; Forella, Guy; Hamant, Jean-Pierre; Tubiana, Dominique; and Pavie, Claude, 4,701,094, Cl. 414-330.000.
Hamaoka, Toshiyuki; Fujiwara, Hiromi; Kusama, Tsuneo; and Komiya, Masahiro, to Hamaoka, Toshiyuki; and Daiichi Seiyaku Co., Ltd. Muramylpeptide active ester derivatives. 4,672,106, 6-9-87, Cl. 530-331.000.
Hamaoka, Toshiyuki; Fujiwara, Hiromi; and Kusama, Tsuneo, to Toshiyuki Hamaoka Daiichi Seiyaku Co., Ltd. Muramyldipeptide active ester derivatives. 4,681,856, 7-21-87, Cl. 536-53.000.
Hamar, Martin R. Control system for a continuous cell target readout in a laser measurement system. 4,679,940, 7-14-87, Cl. 356-375.000.
Hamar, Martin R. Laser apparatus for monitoring geometric errors. 4,714,344, 12-22-87, Cl. 356-152.000.
Hamari Chemicals, Ltd.: *See—*
  Maeda, Sadayuki; Shinoo, Yasutaka; Takenaka, Shinji; Arashida, Susumu; and Shimizu, Iwao, 4,670,607, Cl. 568-427.000.
  Nakamura, Usao; Takao, Makoto; Ueno, Etsuko; and Kawaguchi, Kichitaro, 4,636,471, Cl. 435-280.000.
Hamas, Robert S. Method of identifying instruments as belonging to a set. 4,671,916, 6-9-87, Cl. 264-249.000.
Hamasaki, Bunei: *See—*
  Sato, Mitsuya; and Hamasaki, Bunei, 4,677,474, Cl. 358-101.000.
Hamasaki, Masafumi: *See—*
  Yamaguchi, Tosinobu; Aitoh, Sigeru; and Hamasaki, Masafumi, 4,640,264, Cl. 126-263.000.
Hamasaki, Masaharu, to Sony Corporation. Charge coupled device having a floating diffusion region and a precharge diffusion region which are aligned so as to increase the output gain. 4,660,064, 4-21-87, Cl. 357-24.000.
Hamasaki, Seiichi: *See—*
  Toda, Masayoshi; and Hamasaki, Seiichi, 4,672,236, Cl. 307-271.000.
Hamasaki, Toshihiko: *See—*
  Inoue, Tomoyasu; Tango, Hiroyuki; Suguro, Kyoichi; Higashinakagawa, Iwao; and Hamasaki, Toshihiko, 4,662,949, Cl. 148-1.500.
Hamashima, Kazuo; Imakawa, Makoto; and Kutsukake, Yukinori, to Asahi Glass Company, Ltd. ZrB_2-containing sintered cermet. 4,671,822, 6-9-87, Cl. 75-244.000.
Hamashima, Tetsuo: *See—*
  Tanahashi, Masao; Hamashima, Tetsuo; and Kumano, Humihiro, 4,635,360, Cl. 30-34.200.
Hamashima, Toyoji: *See—*
  Nio, Satoru; Hamashima, Toyoji; and Sato, Shinobu, 4,677,276, Cl. 219-125.120.
Hamashima, Yoichi: *See—*
  Kodama, Kenichi; Tanimoto, Akikazu; Izawa, Hisao; Hamashima, Yoichi; and Hazama, Junji, 4,685,805, Cl. 356-373.000.
Hamashima, Yoshio, to Shionogi & Co., Ltd. Carboxyalkenamidocephalosporins. 4,634,697, 1-6-87, Cl. 514-202.000.
Hamashima, Yoshio; and Takami, Fumitaka, to Shionogi & Co., Ltd. Process for preparing aminohydroxycephamcarboxylates. 4,647,658, 3-3-87, Cl. 540-215.000.
Hamat Koor Metals Ltd.: *See—*
  Tuchman, Michael, 4,633,906, Cl. 137-625.170.
Hamatani, George. Engine push rod holder. 4,643,409, 2-17-87, Cl. 269-43.000.
Hamatani, Toshiji: *See—*
  Yamazaki, Shunpei; Konuma, Toshimitsu; Hamatani, Toshiji; Mase, Akira; Koyanagi, Kaoru; Imato, Shinji; Yamaguchi, Toshiharu; Sakama, Mitsunori; and Inujima, Takashi, 4,691,995, Cl. 350-331.00R.
Hamatani, Yoshiki: *See—*
  Morimoto, Takeshi; Matsubara, Toshiya; Hamatani, Yoshiki; Iwano, Naoto; Shimizu, Hideo; Komatsu, Shigeo; and Yamada, Hidemi, 4,689,724, Cl. 361-433.000.
Hamazaki, Bunei; and Ayata, Naoki, to Canon Kabushiki Kaisha. Position detecting device and method. 4,688,088, 8-18-87, Cl. 358-101.000.
Hamazaki, Haruo, to Kurita Machinery Manufacturing Company Limited. Filter press. 4,668,385, 5-26-87, Cl. 210-91.000.
Hamazaki, Ryoji: *See—*
  Okudaira, Sadayuki; Nishimatsu, Shigeru; Suzuki, Keizo; Ninomiya, Ken; and Hamazaki, Ryoji, 4,705,595, Cl. 156-643.000.
Hamazaki, Takeru; Straitz, John F., III; and Yano, Shintaro, to JGC Corporation. Ground flare stack. 4,652,233, 3-24-87, Cl. 431-202.000.
Hamazaki, Takeru; Hashimoto, Noboru; and Shinobu, Okitsugu, to JGC Corporation. Water seal drum. 4,655,242, 4-7-87, Cl. 137-247.270.
Hamberger, Helmut; Stephen, Adrian; Stutz, Anton; and Stutz, Peter, to Sandoz Ltd. Propenylamines, processes for their production and pharmaceutical compositions containing them. 4,680,291, 7-14-87, Cl. 514-183.000.
Hambleton, Larry G.; Sears, Claude L., and Offutt, Elmer B., to Labconco Corporation. Flask washer with vacuum dry. 4,708,153, 11-24-87, Cl. 134-170.000.
Hambleton, Roger, to Victoria University of Manchester, The. Device for detecting the presence of air in a steam steriliser. 4,699,765, 10-13-87, Cl. 422-57.000.
Hambleton, Thomas P., to International Paper Company. Moisture barrier carton with reclosable cover. 4,673,126, 6-16-87, Cl. 229-43.000.
Hambleton, Thomas P.; Guevara, Erick; and Rychiger, Peter, to International Paper Company. Process for providing filled containers. 4,680,917, 7-21-87, Cl. 53-440.000.
Hamblett, Martin; and Livsey, Duncan J., to Rolls-Royce. Aerofoil section members for gas turbine engines. 4,696,621, 9-29-87, Cl. 415-191.000.
Hamblett, Martin: *See—*
  Cox, John C.; Morgan, Stephen E.; Hamblett, Martin; and Rubini, Alfred, 4,714,407, Cl. 415-192.000.
Hambley, Allan R., to Harris Corporation. Digital differential phase shift keyed demodulator. 4,715,047, 12-22-87, Cl. 375-84.000.
Hamblin, Peter C.: *See—*
  Regenass, Franz, and Hamblin, Peter C., 4,683,071, Cl. 252-49.300.
Hambly, John G.: *See—*
  McFarlane, Norman D.; Glock, John T., and Hambly, John G., 4,649,587, Cl. 14-2.400.
Hambrecht, Juergen; Schmitt, Burghard; Swoboda, Johann; Wassmuth, Georg; Bernhard, Claus; and Stephan, Rudolf, to BASF Aktiengesellschaft. Thermoplastic molding material. 4,634,734, 1-6-87, Cl. 525-85.000.
Hambrecht, Juergen: *See—*
  Berger, Rosemarie; Dreher, Hermann; Hambrecht, Juergen; Heil, Eduard; Reffert, Rudi W.; Swoboda, Johann; Echte, Adolf; and Siebel, Peter, 4,654,418, Cl. 528-486.000.
  Brandt, Hermann; Fischer, Hermann; Dreher, Hermann; Heil, Eduard; Hambrecht, Juergen; Naarmann, Herbert; Echte, Adolf; Gausepohl, Hermann; Siebel, Peter; Swoboda, Johann; Schwoebel, Gerd; and Nikles, Albert, 4,696,996, Cl. 528-214.000.
  Seiler, Erhard; Hambrecht, Juergen; and Heinz, Gerhard, 4,672,086, Cl. 524-127.000.
Hambric, James C. Locknut assembly for high-speed rotary components. 4,648,768, 3-10-87, Cl. 411-217.000.
Hambrick, John L.; and Poirot, Ralph G., to Meliss Company. Docking system. 4,645,380, 2-24-87, Cl. 405-220.000.
Hambright, Doris D. Golf practice device. 4,655,460, 4-7-87, Cl. 273-185.00C.
Hambrock, Klaus-Peter: *See—*
  Ruch, Siegfried; Hagen, Karl-Heinz; and Hambrock, Klaus-Peter, 4,655,798, Cl. 55-64.000.
Hamburg, Douglas R., to Ford Motor Company. Adaptive feedforward air/fuel ratio control for vapor recovery purge system. 4,641,623, 2-10-87, Cl. 123-518.000.
Hamburg, Douglas R., to Ford Motor Company. Variable rate purge control for refueling vapor recovery system. 4,664,087, 5-12-87, Cl. 123-520.000.
Hamburg, Douglas R., to Ford Motor Company. Solenoid duty cycle modulation for dynamic control of refueling vapor purge transient flow. 4,677,956, 7-7-87, Cl. 123-520.000.
Hamburg, Douglas R.: *See—*
  Cook, Jeffrey A.; and Hamburg, Douglas R., 4,715,340, Cl. 123-406.000.
Hamburger, Jean: *See—*
  Bach, Jean-Francois; Dardenne, Mireille; Pleau, Jean-Marie; Hamburger, Jean; Bricas, Evangheios; Martinez, Jean; Blanot, Didier;

Auger, Genevieve; Lefrancier, Pierre; and Amor, Bernard, 4,680,276, Cl. 436-542.000.

Hamby, Bill L. Flexible printed circuits and methods of fabricating and forming plated thru-holes therein. 4,687,695, 8-18-87, Cl. 428-192.000.

Hamby, Bill L. Flexible printed circuits and methods of fabricating and forming plated thru-holes therein. 4,715,928, 12-29-87, Cl. 156-630.000.

Hamco Manufacturing, Inc.: *See—*

Checkley, James D.; and Oberholser, Larry E., 4,645,166, Cl. 248-503.100.

Hamed, Hazem N.: *See—*

McPherson, Alexander W.; and Hamed, Hazem N., 4,637,597, Cl. 269-32.000.

Hamed, Parviz, to SW Industries, Inc. Monomer-plasticized elastomers and process for producing same. 4,689,273, 8-25-87, Cl. 428-462.000.

Hamel, David O.: *See—*

Sielaff, Ulrich, and Hamel, David O., 4,713,923, Cl. 52-713.000.

Hamel, Esther V. M.: *See—*

Kelly, L. Thomas; Hamel, Esther V. M.; and Bielka, Robert P., 4,701,180, Cl. 604-891.000.

Kelly, L. Thomas; Hamel, Esther V. M.; and Bielka, Robert P., 4,713,054, Cl. 604-89.000.

Hamel, L. G.; Landrau, Felix A.; Wong, Patrick S. L.; and Guittard, George V., to Alza Corporation. Pseudoephedrine, brompheniramine therapy. 4,662,880, 5-5-87, Cl. 604-892.000.

Hamel, Pierre: *See—*

Girard, Yves; Rokach, Joshua; and Hamel, Pierre, 4,663,307, Cl. 514-2.000.

Hamelin Industries, Inc.: *See—*

LeBlond, Charles E.; and LeBlond, Henri, 4,634,189, Cl. 301-63.0PW.

Hamelin, Jean-Francois: *See—*

Anouar, Driss; and Hamelin, Jean-Francois, 4,689,759, Cl. 364-572.000.

Hamelin, Jean-Pierre: *See—*

Aiello, Giovanni; and Hamelin, Jean-Pierre, 4,634,970, Cl. 230-231.0SE.

Hamelin, Rene-Louis: *See—*

Grunberg, Pierre; Hamelin, Rene-Louis; and Arhab, Rabah, 4,671,400, Cl. 192-111.00A.

Hamer, Dean H.: *See—*

Fitts, Renee A.; Hsiung, Nancy; and Hamer, Dean H., 4,696,898, Cl. 435-68.000.

Hamer, Henrik J.: *See—*

Vrind, Hendrik C.; Ter Horst, Gerrit H. F.; and Hamer, Henrik J., 4,669,248, Cl. 53-229.000.

Hamerdinger, Randolph W.: *See—*

Wang, Shing C.; and Hamerdinger, Randolph W., 4,639,926, Cl. 372-87.000.

Hameri, Arthur J. Trailer hitch. 4,657,276, 4-14-87, Cl. 280-512.000.

Hamermesh, Charles L.; Dynes, Paul J.; and Hogenson, Peter A., to Rockwell International Corporation. Intumescent flame-resistant coating composition. 4,695,619, 9-22-87, Cl. 528-73.000.

Hamernik, Edward L.; and Patterson, Daryll D., to Tescom Corporation. Fluid actuated valve apparatus. 4,700,735, 10-20-87, Cl. 137-270.000.

Hames, Jeffrey L.; Lacey, Charles M.; Neuman, Ronald R.; and Reidenbach, John R., to International Business Machines Corporation. Voice coil motor magnet assembly. 4,661,729, 4-28-87, Cl. 310-13.000.

Hametta, Allen W., to Hi-Tech Systems, Corp. Electronic metal detector. 4,678,992, 7-7-87, Cl. 324-208.000.

Hamill, Paul E., Jr.; and Vance, Macy W., to United States Steel Corporation. Ingot mold and method of producing same. 4,683,937, 8-4-87, Cl. 164-125.000.

Hamill, Robert L., and Kastner, Ralph E., to Eli Lilly and Company. A47934 antibiotic and process for production thereof. 4,659,660, 4-21-87, Cl. 435-71.000.

Hamill, Robert L.; and Yao, Raymond C., to Eli Lilly and Company. Antibiotic A80190-producing *Actinomadura oligospora* and process. 4,683,201, 7-28-87, Cl. 435-75.000.

Hamill, Steve, and Knight, Arthur A., to Roller Barons, Inc. Roller skate apparatus. 4,666,168, 5-19-87, Cl. 280-11.200.

Hamill, Steve; and Knight, A. A., to Roller Barons, Inc. Skate apparatus. 4,666,169, 5-19-87, Cl. 280-11.230.

Hamilton, A. C. Protection system for electronic apparatus. 4,665,707, 5-19-87, Cl. 62-3.000.

Hamilton Beach Inc.: *See—*

Borsari, Allen S.; Brym, Stanley J.; Markure, Laura A.; and Arpino, Ronald G., 4,692,589, Cl. 219-251.000.

Hamilton, Brian K., to TRW Automotive Products, Inc. Gas generating material. 4,696,705, 9-29-87, Cl. 149-21.000.

Hamilton, Brian K.: *See—*

Goetz, George W.; and Hamilton, Brian K., 4,698,107, Cl. 149-7.000.

Hamilton, Clarence Q. Apparatus for playing. 4,666,160, 5-19-87, Cl. 273-242.000.

Hamilton, David C., to Laser Applications Limited. Laser marking enhancement system using reflection from the mask. 4,639,740, 1-27-87, Cl. 346-76.00L.

Hamilton, David M., Jr., to Shell Oil Company. Selective tricyclic hydrogenation and cracking process and catalyst suitable for such hydroconversion. 4,640,764, 2-3-87, Cl. 208-110.000.

Hamilton, Douglas D.; Palfy, Robert M.; and Viereck, Hans, to Logging Development Corporation. Rim driven rotary cutter and tree felling head incorporating the same. 4,690,185, 9-1-87, Cl. 144-34.00R.

Hamilton, Edward H.; Onstenk, Ralph M.; and Lesscher, Bernardus A., to Du Pont de Nemours, E. I., and Company; and Wavin B.V. Container and cover fastening means. 4,674,650, 6-23-87, Cl. 220-319.0

Hamilton, Edwin J., Jr.: *See—*

Yang, Ren-Der; Hamilton, Edwin J., Jr.; and Taber, Larry D., 4,705,848, Cl. 530-399.000.

Hamilton, Eugene A.: *See—*

Gould, Kenneth E.; and Hamilton, Eugene A., 4,652,468, Cl. 427-282.000.

Hamilton, Gene; Hawkins, Gale; and Potthast, Lynn R. Movable vehicular storage box. 4,635,992, 1-13-87, Cl. 296-37.600.

Hamilton, Harold F.; and Donahue, Robert L., to Hein-Werner Corporation. Drive-in, drive-out vehicle alignment system. 4,663,5 5-12-87, Cl. 33-288.000.

Hamilton, Harold F.; and Donahue, Robert L., to Hein-Werner Corporation. Drive-in, drive-out vehicle alignment system. 4,691,4 9-8-87, Cl. 33-288.000.

Hamilton, Harriet W., to Warner-Lambert Company. Pyrazolo[4,3-d]pyrimidine-5,7-(4H,6H)dione or -5-thione-7-one analogs. 4,663,3 5-5-87, Cl. 514-258.000.

Hamilton, Harriet W., to Warner-Lambert Company. 5-Substitu pyrazolo[4,3-d]pyrimidine-7-ones and methods of use. 4,666,90 5-19-87, Cl. 514-229.000.

Hamilton, Harriet W.; Patt, William C.; and Trivedi, Bharat K., to Warner-Lambert Company. N^6-acenaphthyl adenosines and analogs thereof. 4,673,670, 6-16-87, Cl. 514-46.000.

Hamilton, Herbert E.; and Shorey, Thomas H., to Boeing Company, The. Aircraft cargo loader. 4,635,883, 1-13-87, Cl. 244-137.00R.

Hamilton, Herbert E.; Shorey, Thomas H.; and Abdelmaseh, Michael E., to Boeing Company, The. Personnel elevator for commercial aircraft. 4,653,707, 3-31-87, Cl. 244-137.00P.

Hamilton House Marketing, Inc.: *See—*

Leavitt, Michael; and Huls, David S., 4,680,181, Cl. 426-36.00

Hamilton, Howard D.: *See—*

Dutkanych, Thomas A., 4,697,836, Cl. 294-68.200.

Hamilton Industries, Inc.: *See—*

Bastian, John M., 4,667,605, Cl. 108-144.000.

Bastian, John M.; Pflieger, David C.; and Beck, Marshall K., 4,700,916, Cl. 248-225.200.

Hamilton, James J. Ladder top tool tray mounting. 4,653,713, 3-31-87, Cl. 248-238.000.

Hamilton, James M.; Woods, Lonnie K.; and Godwin, Michael W. Air spring control system and method. 4,651,838, 3-24-87, Cl. 177-209.000.

Hamilton, James M.; and Burness, Bruce, to C&K Venture Income I-Coast. Air spring position switch. 4,677,263, 6-30-87, Cl. 200-61.4

Hamilton, James M.: *See—*

Fowler, George A.; Hamilton, James M.; and Whiteway, William J., 4,678,132, Cl. 242-47.090.

Woods, Lonnie K.; and Hamilton, James M., 4,634,142, Cl. 280-707.000.

Hamilton, James W., Jr., and Long, Edward A., to General Electric Company. Synchronous motor protection. 4,641,074, 2-3-87, Cl. 318-706.000.

Hamilton, James W., Jr.; and Long, Edward A., to General Electric Company. Synchronous motor protection. 4,683,411, 7-28-87, Cl. 318-706.000.

Hamilton, Jock A.: *See—*

Friedman, Lester, and Hamilton, Jock A., 4,645,577, Cl. 204-62.0

Hamilton, Joel A. Table-top apparatus and method for forming sealing packages. 4,662,149, 5-5-87, Cl. 53-453.000.

Hamilton, John R.; and Whigham, Robert H., to Telectronics N.V. Automatic sensitivity control for a pacemaker. 4,708,144, 11-24-87, Cl. 128-419.0PG.

Hamilton, Laura M.: *See—*

Dutkanych, Thomas A., 4,697,836, Cl. 294-68.200.

Hamilton, Leslie: *See—*

Blatherwick, William J.; Hamilton, Leslie; Holewinski, Robert D.; Shen, Virginia A.; Kapec, Jeffrey; and Tanaka, Kazum 4,693,684, Cl. 433-90.000.

Holewinski, Robert D.; Blatherwick, William J.; Hamilton, Leslie; and Wells, Thomas E., Sr., 4,708,650, Cl. 433-90.000.

Hamilton, Malcolm F., to Hozelock-ASL Limited. Fluid supply system a connector and a valve. 4,679,705, 7-14-87, Cl. 222-90.000.

Hamilton, Mark, to Rokon International, Inc. Motorcycle apparatus. 4,702,340, 10-27-87, Cl. 180-224.000.

Hamilton, Ray V. Portable hot air circulator. 4,633,851, 1-6-87, Cl. 126-110.0AA.

Hamilton, Richard J. W., to Titan Manufacturing Co. Pty. Ltd., The. Resistance between nut and bolt. 4,708,550, 11-24-87, Cl. 411-3.00

Hamilton, Robert H.: *See—*

Davidonis, Gayle H.; Mumma, Ralph O.; and Hamilton, Robert H., 4,672,035, Cl. 435-240.000.

Hamilton, Robert W.: *See—*

Rorig, Kurt J.; Liang, Chi-Dean; and Hamilton, Robert W., 4,650,874, Cl. 546-236.000.

Wallace, David R.; Rothschild, George E.; and Hamilton, Robert W., 4,715,074, Cl. 5-93.00R.

Hamilton Standard Controls, Inc.: *See—*

Prouty, Robert E.; and Cunningham, S. Michael, 4,706,037, Cl. 335-248.000.

Rich, William N., 4,653,708, Cl. 248-27.100.

Wilson, Larry E., 4,706,017, Cl. 324-127.000.

Hamilton/Thorn Research Associates: *See—*

Douglas-Hamilton, Margaret M., 4,690,678, Cl. 604-349.000.

Hamilton, William: *See*—
Davies, Colin M., and Hamilton, William, 4,665,593, Cl. 24-459.000.
Hamilton, William C.: *See*—
Sasser, R. Garth, and Hamilton, William C., 4,705,748, Cl. 435-7.000.
Hamilton, William R.: *See*—
Berry, Joe R.; Black, Archie L., and Hamilton, William R., 4,647,099, Cl. 294-103.100.
Berry, Joe R., and Hamilton, William R., 4,667,752, Cl. 175-85.000.
Hamisch, Paul H., Jr., to Monarch Marking Systems, Inc. Hand held electrically selectable labeler. 4,680,081, 7-14-87, Cl. 156-384.000.
Hamisch, Paul H., Jr.; Makley, James A.; Pabodie, Robert M., and Strausburg, Larry D., to Monarch Marking Systems, Inc. Hand-held tag attacher. 4,690,317, 9-1-87, Cl. 227-67.000.
Hamisch, Paul H., Jr., to Monarch Marking Systems, Inc. Hand-held labeler. 4,690,723, 9-1-87, Cl. 156-541.000.
Hamley, James P. Audio amplifier. 4,638,260, 1-20-87, Cl. 330-254.000.
Hamlin, Gregory P.: *See*—
Johnson, Dewey A.; Hamlin, Gregory P., and Schukar, Gary W., 4,641,555, Cl. 83-29.000.
Hamlin, Humphrey A. S., and Marsh, Roger M., to Normalair-Garrett (Holdings) Limited. Molecular sieve type gas separation systems. 4,661,124, 4-28-87, Cl. 55-21.000.
Hamlin, Jerry J. Swivel mount support apparatus. 4,706,575, 11-17-87, Cl. 108-102.000.
Hamlin, Thomas J.: *See*—
Edwards, William B., and Hamlin, Thomas J., 4,678,179, Cl. 271-295.000.
Hamlin, Wayne: *See*—
Hughes, John G.; Hodek, Thomas R., and Hamlin, Wayne, 4,664,494, Cl. 354-234.100.
Hamlyn, George J., to Hamlyn Overseas Trading Company Pty Ltd. Foldable chicken holder. 4,709,626, 12-1-87, Cl. 99-426.000.
Hamlyn, John M.; Blaustein, Mordecai P., and Kowarski, A. Avinoam, to University of Maryland. Method for measuring the plasma levels of an inhibitor of ($Na^+ + K^+$) ATPase associated with hypertension and use in diagnosis. 4,665,019, 5-12-87, Cl. 435-21.000.
Hamlyn Overseas Trading Company Pty Ltd.: *See*—
Hamlyn, George J., 4,709,626, Cl. 99-426.000.
Hamm, David A.: *See*—
Haun, Edward C., and Hamm, David A., 4,634,799, Cl. 585-415.000.
Hamm, David R.: *See*—
Grate, John H., and Hamm, David R., 4,687,872, Cl. 560-25.000.
Grate, John H.; Hamm, David R., and Valentine, Donald H., 4,705,883, Cl. 560-25.000.
Grate, John H., and Hamm, David R., 4,709,073, Cl. 560-24.000.
Hamm, James R.: *See*—
Archer, David H.; Hamm, James R., and Vidt, Edward J., 4,667,467, Cl. 60-39.020.
Hamm, Jerry A. Device for retarding the position of bedclothing. 4,698,880, 10-13-87, Cl. 24-72.500.
Hamm, Robert A., and Soudak, Uri, to Boeing Company, The. High strength to weight horizontal and vertical aircraft stabilizer. 4,667,905, 5-26-87, Cl. 244-123.000.
Hamm, Robert W., to AccSys Technology, Inc. Variable frequency RFQ linear accelerator. 4,712,042, 12-8-87, Cl. 315-5.410.
Hammack, Milton E.: *See*—
Vondergoltz, G. Earl, and Hammack, Milton E., 4,694,628, Cl. 52-528.000.
Hammack, Teddy J.: *See*—
Horsma, David A., and Hammack, Teddy J., 4,658,121, Cl. 219-553.000.
Hamman, Reed K., to Dover Corporation. Integrated wheel lift wrecker. 4,634,337, 1-6-87, Cl. 414-563.000.
Hammann, Ingeborg: *See*—
Fauss, Rudolf; Lantzsch, Reinhard; Findeisen, Kurt; Jager, Gerhard; Hammann, Ingeborg; Becker, Benedikt; and Homeyer, Bernhard, 4,698,333, Cl. 514-63.000.
Kolbl, Heinz; Gompper, Rudolf; Behrenz, Wolfgang; Hammann, Ingeborg; Homeyer, Bernhard; and Hermann, Gunther, 4,647,581, Cl. 514-475.000.
Sirrenberg, Wilhelm; Klauke, Erich; Hammann, Ingeborg; and Stendel, Wilhelm, 4,711,905, Cl. 514-522.000.
Hammar, W. James, to Minnesota Mining and Manufacturing Company. Acrylate and methacrylate monomers and polymers. 4,638,040, 1-20-87, Cl. 526-245.000.
Hammar, W. James; and Ofstead, Ronald F., to Minnesota Mining and Manufacturing Company. Process for thermoformed articles. 4,673,539, 6-16-87, Cl. 264-1.100.
Hammar, Walton J.: *See*—
Scherrer, Robert A.; Stern, Richard M.; and Hammar, Walton J., 4,675,320, Cl. 514-253.000.
Hammarberg, Lars: *See*—
Wahlstrom, Olle L. W., 4,644,770, Cl. 72-51.000.
Hammarskog, Bjorn, to SKF Steel Engineering AB. Method for cooling gases and removing dust from them. 4,643,742, 2-17-87, Cl. 55-20.000.
Hammarstedt, Curt, to Tour & Andersson AB. Radiator valve incorporating presetting means. 4,715,579, 12-29-87, Cl. 251-121.000.
Hammel, Gerard. Flotation process for sludge recovery and energy conversion. 4,692,249, 9-8-87, Cl. 210-603.000.
Hammell, Jim: *See*—
Ferguson, Harry D.; Lee, Kar-Kui; Oliver, William; Kwong, Fat-Cho; Young, Ronald; Hammell, Jim; Morrow, Keith; and Chaudhary, Rashid A., 4,673,920, Cl. 340-521.000.
Hammen, Gunter: *See*—
Engbert, Theodor; Hammen, Gunter; Knofel, Hartmut; and Konig, Klaus, 4,692,550, Cl. 560-345.000.
Knofel, Hartmut; Penninger, Stefan; Brockelt, Michael; Hammen, Gunter; and Stutz, Herbert, 4,675,437, Cl. 560-330.000.
Hammen, Hans W., and Voege, Herbert, to Bayer Aktiengesellschaft. Dust-free quinoxaline 1,4-di-N-oxides. 4,636,503, 1-13-87, Cl. 514-249.000.
Hammer, Donald R.: *See*—
Stein, David E., and Hammer, Donald R., 4,690,491, Cl. 350-96.160.
Hammer, Edward E.; Lemmers, Eugene; and Swanson, Dail L., to General Electric Company. Three lamp ballast. 4,644,227, 2-17-87, Cl. 315-96.000.
Hammer, Edward E., and Lemmers, Eugene, to General Electric Company. D.C. lamp discharge gas pumping control. 4,698,549, 10-6-87, Cl. 313-490.000.
Hammer, Gerald M.: *See*—
Powell, Thomas A.; Kolnes, Kenneth O.; Sprenger, Kenneth J.; Casarotto, John D.; Whitney, Kenneth P.; and Hammer, Gerald M., 4,654,957, Cl. 29-568.000.
Hammer, Gregory V.: *See*—
Shah, Dhiren N.; Hammer, Gregory V., and Domet, Jack, 4,671,823, Cl. 106-197.100.
Hammer, Heinz; Eichenauer, Herbert; Roos, Ernst; and Jurgens, Eberhard, to Bayer Aktiengesellschaft. Aliphatic polyesters containing sulphur, and their use as stabilizers for polymers. 4,699,972, 10-13-87, Cl. 528-293.000.
Hammer, Josef; and Handschuher, Walter, to M.A.N.-ROLAND Druckmaschinen Aktiengesellschaft. Web tension control and emergency stop system. 4,709,872, 12-1-87, Cl. 242-75.430.
Hammer, Klaus-Dieter; Siebrecht, Manfred; Wallhausser, Karl-Heinz; and Winter, Hermann, to Hoechst Aktiengesellschaft. Casing material resistant to mold fungus. 4,662,403, 5-5-87, Cl. 138-118.100.
Hammer, Klaus-Dieter; Siebrecht, Manfred; and Winter, Hermann, to Hoechst Aktiengesellschaft. Artificial sausage casing. 4,666,750, 5-19-87, Cl. 428-36.000.
Hammer, Klaus-Dieter; Winter, Hermann, and Kinzler, Ulrich, to Hoechst Aktiengesellschaft. Artificial sausage casing for sausages of the uncooked sausage type. 4,670,273, 6-2-87, Cl. 426-105.000.
Hammer, Ludwig: *See*—
Faust, Eberhard; Niethammer, Kurt; and Hammer, Ludwig, 4,695,095, Cl. 297-410.000.
Hammer, Richard B.: *See*—
Donson, William A.; Ellerson, James V.; Hammer, Richard B.; Lafer, William; and Snyder, Keith A., 4,690,833, Cl. 427-96.000.
Hammer, William E.; Schwane, Walter H.; and Ziecina, Frederick J., to International Business Machines Corporation. Flexible data transmission for message based protocols. 4,649,473, 3-10-87, Cl. 364-200.000.
Hammerle AG: *See*—
Hanni, Eduard; and Zweili, Marcus, 4,644,834, Cl. 83-415.000.
Hanni, Eduard; and Walchli, Urs, 4,700,599, Cl. 83-94.000.
Hug, Peter, 4,708,573, Cl. 414-589.000.
Hammerle, Frederick A.; Allen, Philip M.; Geddes, Richard; and Malone, Gary R., to TRW Inc. Panel fastener assembly system. 4,706,868, 11-17-87, Cl. 227-149.000.
Hammerle, Frederick A.: *See*—
Danico, Henry F., and Hammerle, Frederick A., 4,715,756, Cl. 411-369.000.
Hammerling, Ulrich; Koo, Gloria C.; and Tada, Nobuhiko, to Sloan-Kettering Institute for Cancer Research. Process for sex determination in man by use of monoclonal antibodies to the H-Y antigen. 4,680,258, 7-14-87, Cl. 435-7.000.
Hammermeister, Dale P.: *See*—
Rubin, Jacob; Hammermeister, Dale P.; and Nimmo, John R., 4,679,422, Cl. 73-38.000.
Hammerschmidt, Erich; Behre, Horst; Blank, Heinz U.; and Mayer, Dietmar, to Bayer Aktiengesellschaft. Tetra-alkali metal salts of chromotropic acid, a process for their isolation and their use. 4,705,652, 11-10-87, Cl. 260-512.00C.
Hammerschmidt, Peter: *See*—
Crass, Guenther; Bursch, Annegrete; and Hammerschmidt, Peter, 4,673,611, Cl. 428-215.000.
Hammersley, Graham J.: *See*—
Greatorex, Cyril B.; Smith, Ian W. H., and Hammersley, Graham J., 4,712,946, Cl. 405-170.000.
Hammersmith, Robert J.: *See*—
Agarwal, Paul D.; Hammersmith, Robert J., and Kade, Alexander, 4,653,815, Cl. 303-100.000.
Hammerton, Denis, to Polaroid Corporation. Direct readout dissolved gas measurement apparatus. 4,702,102, 10-27-87, Cl. 73-19.000.
Hammes, John. Electronic defensive weapon. 4,688,140, 8-18-87, Cl. 361-232.000.
Hammes, Peter: *See*—
Habermann, Wolfgang; Pommer, Ernst-Heinrich; Hammes, Peter; Engelhardt, Hubert; Geiger, Wolfgang; Simmler, Werner; and Huber, Guenther, 4,670,360, Cl. 429-33.000.
Habermann, Wolfgang; Hammes, Peter; Engelhardt, Hubert; Geiger, Wolfgang; Haltrich, Walter; and Simmler, Werner, 4,696,749, Cl. 210-721.000.
Weiss, Franz-Josef; Habermann, Wolfgang; Hammes, Peter; Frommer, Elmar; Thomas, Erwin; and Thoma, Peter, 4,645,579, Cl. 204-182.400.

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Hammesfahr, Paul D.: *See—*
Bennett, Douglas D.; Welsh, Richard E.; Hammesfahr, Paul D.; Francis, Earl C.; and Kopunek, Thomas V., 4,659,327, Cl. 604-135.000.

Hammett, Roy, to International Container Systems, Inc. Universal case for transporting bottles. 4,700,836, 10-20-87, Cl. 206-427.000.

Hammett, Roy, to International Container Systems, Inc. Universal bottle case. 4,700,837, 10-20-87, Cl. 206-427.000.

Hammett, Warren G.: *See—*
Galensky, Duane; and Hammett, Warren G., 4,697,264, Cl. 370-111.000.

Hammill, Harry B., III, to Calspan Corporation. Target member for use in a positioning system. 4,684,247, 8-4-87, Cl. 356-152.000.

Hammill, Harry B., III: *See—*
Lukowski, Frank J., Jr.; and Hammill, Harry B., III, 4,678,329, Cl. 356-152.000.

Hammond, Albert J., to Ferro Manufacturing Corporation. Window regulator mechanism with rack supporting track of rectangular channel shape. 4,685,248, 8-11-87, Cl. 49-352.000.

Hammond, Albert J.: *See—*
Staran, Michael E.; Czulinski, Ronald B.; and Hammond, Albert J., 4,642,941, Cl. 49-352.000.

Hammond, David R. Arrow retention attachment for bow. 4,703,745, 11-3-87, Cl. 124-41.00A.

Hammond, Donald J.: *See—*
Algrim, Donald J.; Vermilion, Donn R.; Hammond, Donald J.; and Haines, Richard M., 4,636,437, Cl. 428-391.000.

Hammond, Edward P., to Procter & Gamble Company, The. Apparatus for labeling blow-molded articles by placing label directly on the parison. 4,708,630, 11-24-87, Cl. 425-504.000.

Hammond, George S.: *See—*
Masilamani, Divakaran; Hammond, George S.; and Murthy, Andiappan K. S., 4,709,101, Cl. 568-697.000.

Hammond, James A.: *See—*
Koch, G. Teryl; Smith, Thomas L.; Jacklin, Keith A.; and Hammond, James A., 4,698,252, Cl. 428-159.000.

Hammond, John E.; and Wooding, Peter T., to Lucas Industries Public Limited Company. Drive system. 4,646,896, 3-3-87, Cl. 192-0.098.

Hammond, John E.: *See—*
Frost, John R.; Sarich, Nancy J.; Ruff, John; and Hammond, John E., 4,652,458, Cl. 426-573.000.

Hammond, Martin L.; and Ramiller, Charles L., to Tetron, Inc. Reactor apparatus for semiconductor wafer processing. 4,694,779, 9-22-87, Cl. 118-730.000.

Hammond, Michael: *See—*
Sasse, Klaus; Hammond, Michael; Seuter, Friedel; Perzborn, Elisabeth; Pelster, Bernhard; Sturton, Graham; and Abram, Trevor, 4,698,344, Cl. 514-275.000.

Hammond, Michael R.; and Vickers, Robert V., to Tocco, Inc. Valve seat induction heating apparatus. 4,659,892, 4-21-87, Cl. 219-10.570.

Hammond, Michael R.; and Novorsky, Donald E., to Tocco, Inc. Method and apparatus for shaping the surfaces of cams on a camshaft. 4,714,809, 12-22-87, Cl. 219-10.430.

Hammond, Milton L.: *See—*
Chang, Michael N.; Jensen, Norman P.; Hammond, Milton L.; Zambias, Robert A.; McDonald, John; and Rupprecht, Kathleen M., 4,686,235, Cl. 514-520.000.

Hammond, Philip G., to Kimberly-Clark Corporation. Scarfing method. 4,675,144, 6-23-87, Cl. 264-160.000.

Hammond, Philip G., to Kimberly-Clark Corporation. Absorbent structure containing a contoured batt. 4,690,853, 9-1-87, Cl. 428-157.000.

Hammond, Ray L.; and Chatham, Thomas B., to Motorola, Inc. Glass repair of hermetic packages. 4,708,889, 11-24-87, Cl. 427-140.000.

Hammond, Robert G., to RTE Corporation. Transformer switch. 4,644,111, 2-17-87, Cl. 200-8.00A.

Hammond, Russell E. Method of curing patches on contoured surfaces. 4,652,319, 3-24-87, Cl. 156-94.000.

Hammons, Robert E. Collapsible trailer. 4,645,230, 2-24-87, Cl. 280-656.000.

Hammura, Hisao; Echizen, Tetsuro; and Sanada, Yoshio, to Shin-Kobe Electric Machinery Co. Ltd. Oscilloscope. 4,707,691, 11-17-87, Cl. 340-754.000.

Hamner, Glen P.: *See—*
Hudson, Carl W.; and Hamner, Glen P., 4,664,777, Cl. 208-112.000.

Hamon, Gilles: *See—*
Nedelec, Lucien; Fauveau, Patrick; Hamon, Gilles; and Oberlander, Claude, 4,661,482, Cl. 514-227.000.
Nedelec, Lucien; Hamon, Gilles; Fauveau, Patrick; and Oberlander, Claude, 4,694,011, Cl. 514-323.000.

Hamon, Jean-Pierre: *See—*
Puisais, Xavier; Hamon, Jean-Pierre; Jegousse, Michel; and Kaluszynski, Michel, 4,644,132, Cl. 219-158.000.
Puisais, Xavier F.; Hamon, Jean-Pierre; Jegousse, Michel; and Kaluszynski, Michel, 4,638,142, Cl. 219-121.0EC.
Puisais, Xavier F.; Hamon, Jean-Pierre; Jegousse, Michel J.; and Kaluszynski, Michel, 4,638,984, Cl. 269-43.000.
Puisais, Xavier F.; Hamon, Jean-Pierre; Jegousse, Michel; and Kaluszynski, Michel, 4,648,544, Cl. 228-44.500.

Hamon-Sobelco S.A.: *See—*
Bosne, Georges J. P. E., 4,666,593, Cl. 210-150.000.
Ledoux, Jules F. R., 4,635,588, Cl. 122-1.00C.

Hampel, Herbert J.: *See—*
Rabey, Alexander; and Hampel, Herbert J., 4,705,921, Cl. 200-50.00B.

Hampel, Klaus; and Goldbecker, Wilfried, to Kochs Adler AG. Devi for controlling the looper thread of a double chainstitch sewin machine. 4,643,114, 2-17-87, Cl. 112-199.000.

Hampel, Klaus; and Goldbecker, Wilfried, to Kochs Adler, AG. Thread-chain separating head for a double chainstitch sewing ma- chine. 4,674,425, 6-23-87, Cl. 112-288.000.

Hampel, Klaus: *See—*
Schrudde, Reinhold; Lohe, Rainer; and Hampel, Klaus, 4,643,11 Cl. 112-199.000.

Hampel, Wilbur J.: *See—*
Comer, Robert C.; Hampel, Wilbur J.; and Rogers, Edward A. 4,694,528, Cl. 15-330.000.

Hamprecht, Gerhard; Rohr, Wolfgang; and Varwig, Juergen, to BASF Aktiengesellschaft. Preparation of substituted 2-phenyl-4H-3,1-be zoxazin-4-ones. 4,673,740, 6-16-87, Cl. 544-92.000.

Hamprecht, Gerhard; Varwig, Juergen; and Rohr, Wolfgang, to BASF Aktiengesellschaft. Preparation of fluorophthalimides. 4,680,41 7-14-87, Cl. 548-480.000.

Hamprecht, Gerhard: *See—*
Parg, Adolf; Hamprecht, Gerhard; and Wuerzer, Bruno, 4,650,9 Cl. 564-430.000.

Hampshire Instruments: *See—*
Forsyth, James M., 4,692,934, Cl. 378-34.000.

Hampshire Instruments, Inc.: *See—*
Forsyth, James M.; and Frankel, Robert D., 4,700,371, C 378-34.000.

Hampshire, James F.; Groth, Hugh F.; and Collins, John M., to Rubbe maid Commercial Products Inc. Adjustable computer work tabl 4,637,322, 1-20-87, Cl. 108-102.000.

Hampson, Alfred A.; Hampson, Blair M.; Aldrich, Stuart R.; and Robi Lyndon J., to Can and Bottle Systems, Inc. Reverse vending m chine. 4,653,627, 3-31-87, Cl. 194-209.000.

Hampson, Blair M.: *See—*
Hampson, Alfred A.; Hampson, Blair M.; Aldrich, Stuart R.; a Robie, Lyndon J., 4,653,627, Cl. 194-209.000.

Hampton, Clifton G.; and Dellinger, Thomas A., to Siecor Corporatio Electrical jack. 4,666,225, 5-19-87, Cl. 339-42.000.

Hampton, Clifton G.: *See—*
Dellinger, Thomas A.; and Hampton, Clifton G., 4,647,725, C 329-29.000.

Hampton, Edward J.: *See—*
Porowski, Jan S.; O'Donnell, William J.; Badlani, Manu L.; a Hampton, Edward J., 4,683,014, Cl. 148-131.000.
Porowski, Jan S.; Badlani, Manu L.; O'Donnell, William J.; a Hampton, Edward J., 4,702,880, Cl. 376-205.000.

Hampton, Garfield, Jr. All purpose bin. 4,655,357, 4-7-87, Cl. 220-150

Hampton, Jack S.: *See—*
Dugger, Michael N.; and Hampton, Jack S., 4,651,817, C 165-86.000.

Hampton, Keith; and Schwank, Johannes, to Eaton Corporatio Method and apparatus for pretreatment of fuel by partial combusti with a composite catalyst. 4,715,347, 12-29-87, Cl. 123-551.000.

Hampton, Leonard; and Hohulin, Samuel E., to National Union Ele- tric Corp. Vacuum cleaner assembly. 4,648,149, 3-10-87, C 15-360.000.

Hampton, Leonard; and Hohulin, Samuel E., to National Union Ele tric Corp. Vacuum cleaner assembly. 4,701,975, 10-27-87, C 15-383.000.

Hampton, Thomas C.: *See—*
Dietlein, John E.; and Hampton, Thomas C., 4,686,244, C 523-179.000.

Hampton, Thomas G.; Mitsch, James M.; Palmieri, Joseph M.; Parke David S.; and Smith, James L., to General Electric Company. Ratin plug for molded case circuit breakers. 4,675,641, 6-23-87, C 337-82.000.

Hampton, Thomas G.; Mitsch, James M.; Palmieri, Joseph M.; Parke David S.; and DeRosier, Donna C., to General Electric Compa Thermal magnetic trip unit for molded case circuit breake 4,706,054, 11-10-87, Cl. 335-203.000.

Hampton, Wade J. Prefabricated archway. 4,665,666, 5-19-87, C 52-86.000.

Hamren, Glen C., to General Motors Corporation. Peak combusti pressure signal processing circuit with diagnostic capabili 4,711,119, 12-8-87, Cl. 73-115.000.

Hamrick, Claude A. S.: *See—*
Hamrick, Jerry O. S.; and Hamrick, Claude A. S., 4,699,197, C 160-188.000.

Hamrick, Jerry O. S.; and Hamrick, Claude A. S. Electromechanica actuated bifolding closure apparatus. 4,699,197, 10-13-87, C 160-188.000.

Hamsher, Wilbur A., Jr.; and Lockard, Joseph L., to AMP Incorpo rated. Double row electrical connector. 4,655,515, 4-7-87, Cl. 3 14.00R.

Hamsher, Wilbur A., Jr.; and Long, William B., to AMP Incorporate Electrical contact for receiving two conductors. 4,690,647, 9-1-87, C 439-92.000.

Hamstra, James R.; Koehler, Howard A.; Rusterholz, John T.; a Tanglin, David J., to Sperry Corporation. Local store for scienti vector processor. 4,706,191, 11-10-87, Cl. 364-200.000.

Hamu, Kaino J. Silkscreen frame mounting assembly for pr 4,694,746, 9-22-87, Cl. 101-124.000.

Hamura, Masayuki: *See—*
Nakashima, Seiichiro; Torii, Nobutoshi; and Hamura, Masay 4,652,203, Cl. 414-730.000.

Hamzaoui, Salim; and Schilliger, Michel, to LMT Radio Professionnelle. MLS on-board receiver circuit to decode fast-scanning boosted preambl. 4,648,101, 3-3-87, Cl. 375-99.000.

Han, Choong Y.; and Gately, William L., to General Electric Company. Carbodiimide-functionalized polyphenylene ether and method of preparation. 4,689,372, 8-25-87, Cl. 525-390.000.

Han, Doyoung; and Renaud, Merle A., to American Standard Inc. Control and method for modulating the capacity of a temperature conditioning system. 4,689,967, 9-1-87, Cl. 62-201.000.

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Han, Hak-Khim, to Minnesota Mining and Manufacturing Company. Tamper-resistant packaging tape. 4,652,473, 3-24-87, Cl. 428-35.000.

Han, Hok L. Sound field simulation system and method for calibrating same. 4,638,506, 1-20-87, Cl. 381-34.000.

Han, Joon H. Brake holding system. 4,696,222, 9-29-87, Cl. 192-3.00H.

Han, Joon Ho. Brake holding system. 4,646,903, 3-3-87, Cl. 192-3.00H.

Han, Joseph U.: *See*—
Troup, Edward M., deceased; Kendall, Giles A.; Han, Joseph U.; Moralez, Christopher M.; and Gongwer, Calvin A., 4,681,259, Cl. 239-206.000.

Han, Man Y. Concrete lining machine. 4,710,058, 12-1-87, Cl. 405-146.000.

Han, Myong-ja. Recliner. 4,691,890, 9-8-87, Cl. 248-412.000.

Han, Ru-Jen L.: *See*—
Carson, Matthew; Han, Ru-Jen L.; and LeMahieu, Ronald A., 4,672,066, Cl. 514-256.000.

Han, Wesley W.: *See*—
Gerson, Steven H., and Han, Wesley W., 4,694,022, Cl. 514-554.000.

Han, Yu-Pin: *See*—
Chan, Tsiu C., and Han, Yu-Pin, 4,679,300, Cl. 29-571.000.

Hanabata, Makoto; Furuta, Akihiro; Yasui, Seimei; and Tanaka, Kunihiko, to Sumitomo Chemical Company, Limited. Positive photoresist composition with m-hydroxy-α-methylstyrene homopolymer and quinonediazide compound. 4,696,886, 9-29-87, Cl. 430-192.000.

Hanabe, Hiroshi: *See*—
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Hanabusa, Kenji: *See*—
Shirai, Hirofusa; Hanabusa, Kenji; Kitamura, Mitsutoshi; Hojo, Nobumasa; and Hirabaru, Okikazu, 4,663,084, Cl. 252-600.000.

Hanada, Hideto: *See*—
Saito, Mituo; Hara, Hidetoshi; and Hanada, Hideto, 4,646,549, Cl. 72-88.000.

Hanada, Kenichirou: *See*—
Nishikawa, Toshihide; Hanada, Kenichirou; Nishimura, Yukinobu; and Shimomura, Setsuhiro, 4,706,634, Cl. 123-492.000.

Hanada, Koji: *See*—
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Hanada, Masamichi: *See*—
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Hanada, Sadashi: *See*—
Fujita, Yoshitada; Hanada, Sadashi; and Yamamoto, Yoshiaki, 4,637,540, Cl. 228-49.200.
Fujita, Yoshitada; Hanada, Sadashi; Yamamoto, Yoshiaki; and Nakabayashi, Akira, 4,645,412, Cl. 414-786.000.

Hanada, Seigo: *See*—
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Hanada, Shigeru; Inagaki, Etsuo; and Nakata, Hiroya, to Daidotokushuko Kabushikikaisha. Method of melting raw material with an electric arc furnace. 4,689,800, 8-25-87, Cl. 373-104.000.

Hanada, Tool: *See*—
Nakada, Seiichi; Hanada, Tool; and Watanabe, Masao, 4,640,028, Cl. 38-77.700.

Hanada, Toshiro: *See*—
Sakata, Yoshitsugu; Miyashita, Yoshibonu; Hamanaka, Tadashi; Kodera, Hiroyuki; Miki, Yutaka; Yamanishi, Kazuhiko; and Hanada, Toshiro, 4,695,539, Cl. 435-10.000.
Yamanishi, Kazuhiko; Shintani, Akinori; Okajima, Satoru; and Hanada, Toshiro, 4,673,635, Cl. 435-10.000.
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Hanada, Yoichiro: *See*—
Hattori, Hisashi; Takenoshita, Hidemitsu; and Hanada, Yoichiro, 4,708,068, Cl. 110-245.000.

Hanada, Yoshihiro: *See*—
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Hanada, Yoshio: *See*—
Kando, Yasuhiko; Nakagomi, Tamihito; Hasegawa, Shinji; and Hanada, Yoshio, 4,653,865, Cl. 350-346.000.

Hanafusa, Hiroyuki: *See*—
Nakayama, Hideo; Nakatani, Shuichi; Tanaka, Fusatoshi; and Hanafusa, Hiroyuki, 4,690,106, Cl. 123-52.00M.
Tanaka, Fusatoshi; Nakatani, Shuichi; Nakayama, Hideo; and Hanafusa, Hiroyuki, 4,660,527, Cl. 123-41.82R.

Hanafusa, Takashi: *See*—
Ogasawara, Sadanori; Hanafusa, Takashi; Kariya, Katsuhide; Ito, Masayoshi; and Shitori, Yoshiyasu, 4,698,332, Cl. 514-42.000.

Hanafusa, Tooru; Kinugasa, Yukio; and Yoegashi, Takehisa, to Toyota Jidosha Kabushiki Kaisha. Fuel injection system for an internal combustion engine. 4,700,681, 10-20-87, Cl. 123-478.000.

Hanagan, Mary A.; and Thompson, Mark E., to Du Pont de Nemours, E. I., and Company. Herbicidal ortho-alkyl- and ortho-alkenyl-substituted benzenesulfonamides. 4,678,502, 7-7-87, Cl. 71-93.000.

Hanagan, Mary A.; and Thompson, Mark E., to Du Pont de Nemours, E. I., and Company. Herbicidal ortho-alkyl-and ortho-alkenyl substituted benzenesulfonamides. 4,699,650, 10-13-87, Cl. 71-92.000.

Hanagan, Mary A., to Du Pont de Nemours, E. I., and Company. Herbicidal sulfonamides. 4,705,556, 11-10-87, Cl. 71-90.000.

Hanagata Press Industry Co., Ltd.: *See*—
Hanagata, Toshiyuki, 4,658,569, Cl. 53-550.000.

Hanagata, Takayoshi, to Canon Kabushiki Kaisha. Dot matrix printer providing multiple print pulses for one energization of a printing head stepping motor. 4,693,618, 9-15-87, Cl. 400-120.000.

Hanagata, Takayoshi, to Canon Kabushiki Kaisha. Ink jet recorder having ink container vent blocking means. 4,709,249, 11-24-87, Cl. 346-140.00R.

Hanagata, Toshiyuki, to Hanagata Press Industry Co., Ltd. Packaging apparatus. 4,658,569, 4-21-87, Cl. 53-550.000.

Hanahara, Isamu: *See*—
Nabeta, Takeshi; and Hanahara, Isamu, 4,696,956, Cl. 523-137.000.
Nabeta, Takeshi; and Hanahara, Isamu, 4,704,413, Cl. 523-137.000.

Hanai, Kazuko; and Yamada, Yasuyuki, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,711,819, 12-8-87, Cl. 428-425.900.

Hanai, Kazuko: *See*—
Ryoke, Katsumi; Yamaguchi, Nobutaka; Takahashi, Masatoshi; Hanai, Kazuko; Kosha, Hideaki; and Tadokoro, Eiichi, 4,649,072, Cl. 428-212.000.
Ryoke, Katsumi; Yamaguchi, Nobutaka; Takahashi, Masatoshi; Hanai, Kazuko; Kosha, Hideaki; and Tadokoro, Eiichi, 4,686,139, Cl. 428-323.000.
Ryoke, Katsumi; Yamaguchi, Nobutaka; Takahashi, Masatoshi; Hanai, Kazuko; Kosha, Hideaki; and Tadokoro, Eiichi, 4,696,858, Cl. 428-323.000.

Hanai, Michio: *See*—
Ouchi, Chiaki; Suenaga, Hiroyoshi; Sakuyama, Hideo; Hanai, Michio; and Sawamura, Ichiroh, 4,675,055, Cl. 148-11.50F.

Hanak, Joseph J.; Young, James; Kuypers, Bert; and Bleden, Richard, to Energy Conversion Devices, Inc. Retractable power supply. 4,636,579, 1-13-87, Cl. 136-245.000.

Hanak, Joseph J., to Energy Conversion Devices, Inc. Process and apparatus for continuous production of lightweight arrays of photovoltaic cells. 4,663,828, 5-12-87, Cl. 29-572.000.

Hanak, Joseph J., to Energy Conversion Devices, Inc. Stowable large area solar power module. 4,713,492, 12-15-87, Cl. 136-245.000.

Hanakata, Takayoshi: *See*—
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Hanaki, Akira: *See*—
Hattori, Masaichi; Hanaki, Akira; and Kihira, Kouichi, 4,633,908, Cl. 137-637.100.
Iwamoto, Tadashi; Ikeda, Toshiki; Yukitomo, Kazuo; Hattori, Masaichi; Arakawa, Kaneyasu; Kihira, Koichi; and Hanaki, Akira, 4,683,403, Cl. 315-83.000.

Hanami, Osamu: *See*—
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Hanamori, Ryoichi; and Yamamoto, Hiroshi, to Canon Kabushiki Kaisha. Lens barrel incorporating a motor. 4,682,854, 7-28-87, Cl. 350-255.000.

Hanamori, Ryoichi; Nakashima, Shigeo; and Yamamoto, Hiroshi, to Canon Kabushiki Kaisha; and Canon Seiki Kabushiki Kaisha. Motor. 4,693,580, 9-15-87, Cl. 354-271.100.

Hanamoto, Keiji; and Takagi, Fumio, to Dai Nippon Insatsu Kabushiki Kaisha. Method for injection molding articles while simultaneously forming patterns thereon. 4,639,341, 1-27-87, Cl. 264-40.100.

Hanamoto, Mark S.: *See*—
Blakemore, Judith L.; Hanamoto, Mark S.; and Williams, Fred G., 4,648,529, Cl. 221-1.000.

Hanamoto, Yoshihiro: *See*—
Shibui, Michiro; Hanamoto, Yoshihiro; Ishigaki, Yoshio; Sahara, Hiroshi; Maeda, Satoru; and Noguchi, Yasushi, 4,694,406, Cl. 364-518.000.

Hanamura, Eiichi; Tokura, Yoshinori; Takada, Akio; and Itsubo, Akiro, to Mitsubishi Petrochemical Co., Ltd. Optical recording media on which information is stored and method of making same. 4,678,736, 7-7-87, Cl. 430-270.000.

Hanamura, Shoji; Aoki, Masaaki; and Masuhara, Toshiaki, to Hitachi, Ltd. Semiconductor including signal processor and transient detector for low temperature operation. 4,710,648, 12-1-87, Cl. 307-443.000.

Hanamure, Toshiyuki: *See*—
Kuwabara, Takashi; Shimura, Yoshiharu; Hayashi, Yuko; Hanamure, Toshiyuki; Kanemori, Kaoru; and Yamakawa, Yoshihiro, 4,711,098, Cl. 62-441.000.

Hanano, Yoshikazu; and Ewata, Riichi, to Lion Corporation. Catamenial tampon inserter. 4,699,610, 10-13-87, Cl. 604-16.000.

Hanaoka, Hiroshi, to Hanaoka Sharyo Co., Ltd. Cart. 4,655,466, 4-7-87, Cl. 280-47.37R.

Hanaoka, Hiroshi; and Matsumiya, Sadayuki, to Mitutoyo Mfg. Co., Ltd. Measuring instrument. 4,684,257, 8-4-87, Cl. 356-374.000.

Hanaoka, Joichi, to Yoshihara Oil Mill, Ltd. Soybean protein film. 4,636,259, 1-13-87, Cl. 106-122.000.

Hanaoka, Katsumi; Yamamoto, Yasuo; Arii, Kazuhiro; and Tanaka, Kazuhiro, to Allied Corporation. Case for protecting a magnetic core. 4,646,803, 3-3-87, Cl. 150-52.00R.

Hanaoka, Katsumi: *See*—
Tanaka, Kazuhiro; Yamamoto, Yasuo; Hanaoka, Katsumi; and Hirai, Masatake, 4,639,707, Cl. 336-185.000.

Hanaoka Sharyo Co., Ltd.: *See*—
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Hanaoka, Sumio: *See*—
Hamaguchi, Setsunori; and Hanaoka, Sumio, 4,683,151, Cl. 427-397.800.

Hanas, Orest J.; Pennypacker, Frank C.; Radloff, Charles B.; and Schulman, Richard D., to Oak Industries Inc. Satellite scrambling communication network using geographically separated uplinks. 4,709,266, 11-24-87, Cl. 380-20.000.

Hanatani, Sakio; and Yakushiji, Tuguharu, to Sharp Kabushiki Kaisha. Weight measuring device. 4,683,967, 8-4-87, Cl. 177-144.000.

Hanatate, Yuko: *See*—
Tsuji, Eiji; Okabe, Hirobumi; Ike, Hideo; Uratani, Fumihiro; Ota, Takashi; Kaneda, Hiroshi; Hanatate, Yuko; Hamada, Tadashi; and Oonishi, Hironobu, 4,668,585, Cl. 428-469.000.

Hanawa, Masatoshi, to Kabushiki Kaisha Toshiba. Magnetic resonance imaging system. 4,665,364, 5-12-87, Cl. 324-309.000.

Hanawa, Masatoshi; and Hayakawa, Hiroshi, to Kabushiki Kaisha Toshiba. Magnetic resonance imaging system. 4,675,608, 6-23-87, Cl. 324-314.000.

Hanawa, Tetsuya: *See*—
Takagi, Hisamitsu; Hanawa, Tetsuya; Nishiyama, Akihide; and Takashima, Yutaka, 4,700,383, Cl. 379-421.000.

Hanaway, Richard W., to American Hospital Supply Corporation. Tower for analyzing system. 4,643,879, 2-17-87, Cl. 422-104.000.

Hanaway, Richard W., to American Hospital Supply Corporation. Reagent dispenser for an analyzing system. 4,681,741, 7-21-87, Cl. 422-100.000.

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Armes, William P.; Cherniski, Andrew M.; Hanaway, Richard W.; and Hathaway, James C., 4,676,951, Cl. 422-65.000.

Hanaway, Ronald J., to SteelTex Corporation. Guide sleeve, guide post and ball bearing assembly. 4,664,534, 5-12-87, Cl. 384-49.000.

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Hanayama, Masaru: *See*—
Matsumoto, Yukio; and Hanayama, Masaru, 4,640,863, Cl. 428-323.000.

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Hanazono, Masanobu: *See*—
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Komuro, Matahiro; Kozono, Yuzo; Yasuda, Takeshi; Narishige, Shinji; Hanazono, Masanobu; and Kuroda, Tetsuro, 4,698,273, Cl. 428-635.000.

Hanchar, Peter J., to General Instrument Corporation. Indicator lamp assembly. 4,667,277, 5-19-87, Cl. 362-250.000.

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Hanchett, Leland J., Jr.; and Lawrence, Mark A., 4,669,766, Cl. 292-251.500.

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Schmidgall, Eugene D., 4,673,159, Cl. 249-159.000.

Hancock, Donald J.: *See*—
Wessel, Frank J.; and Hancock, Donald J., 4,638,149, Cl. 219-499.000.

Hancock, Garry W.; and Love, Scott W., to Rockwell International Corporation. 360 Degree pipe repair clamp. 4,676,275, 6-30-87, Cl. 138-99.000.

Hancock, Herbert A.: *See*—
Fray, Derek J.; and Hancock, Herbert A., 4,645,650, Cl. 423-49.000.

Hancock, Jack A.; Johnson, Walter D.; and Kennedy, Alan D., to Du Pont de Nemours, E. I., and Company. Process of making crimped, annealed polyester filaments. 4,639,347, 1-27-87, Cl. 264-291.000.

Hancock, Jack A.; Johnson, Walter D.; and Kennedy, Alan D., to Du Pont de Nemours, E. I., and Company. Annealed polyester filaments and a process for making them. 4,704,329, 11-3-87, Cl. 428-369.000.

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Scheurer, Robert S.; and Hancock, Kendal, 4,642,060, Cl. 441-70.000.
Scheurer, Robert S.; and Hancock, Kendal, 4,673,365, Cl. 441-70.000.

Hancock, Kenneth A. Manufacturing a product for treatment of the human body. 4,704,279, 11-3-87, Cl. 424-195.100.

Hancock, LaVon F. Video tape cassette tool. 4,680,997, 7-21-87, Cl. 81-487.000.

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Pitt, Gilles D.; Scott, Brian J.; Verrells, Michael V.; Hancock, Nicholas K.; and Extance, Phillip, 4,672,216, Cl. 250-574.000.

Hancock, William R.: *See*—
Benson, David J.; Brown, Carl H.; and Hancock, William R., 4,716,460, Cl. 358-140.000.
Johnson, Michael J.; and Hancock, William R., 4,649,378, Cl. 340-728.000.

Hancor, Inc.: *See*—
Sidaway, H. John; and Lytle, Donald A., 4,709,723, Cl. 137-584.000.

Hancovsky, John P., to Matthews International Corporation. Hole cleaning device. 4,659,127, 4-21-87, Cl. 294-50.700.

Hand, Elli S.: *See*—
Baker, David C.; and Hand, Elli S., 4,636,564, Cl. 546-289.000.
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Hand, George E.; and Kramer, Roman A., to Interplastic Corporation. Adjustable shelving system. 4,635,563, 1-13-87, Cl. 108-111.000.

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Hand, John J.: *See*—
Addor, Roger W.; Wright, Donald P., Jr.; Siddens, Jack K.; and Hand, John J., 4,649,148, Cl. 514-321.000.

Hand Widmaier Fabrik fur Apparate der Fernmelde- und Feinwerktechnik: *See*—
Schmid, Theobald; Widmaier, Horst; and Wolf, Friedrich, 4,649,246, Cl. 200-159.00B.

Handa, Ichirou: *See*—
Nagamine, Keiji; and Handa, Ichirou, 4,650,326, Cl. 356-240.000.

Handa Kikai Kigu Kabushiki Kaisha: *See*—
Handa, Koichiro, 4,687,458, Cl. 446-222.000.

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Okamoto, Tadashi; Matsubara, Sumiyuki; and Handa, Masahisa, 4,684,567, Cl. 428-257.000.

Handa, Masao: *See*—
Tomita, Takao; Matsuura, Masaaki; Hirano, Makoto; Handa, Masao; and Shiozaki, Tomoo, 4,671,228, Cl. 123-193.00P.

Handa, Noboru: *See*—
Tsunoda, Akira; Tanaka, Takahiko; and Handa, Noboru, 4,673,8 Cl. 318-443.000.
Tsunoda, Akira; Tanaka, Takahiko; and Handa, Noboru, 4,689,535, Cl. 318-443.000.

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Handa, Tatuhiro, to Mazda Motor Corporation. Vehicle body assembly system. 4,678,110, 7-7-87, Cl. 228-4.100.

Handa, Yuichi: *See*—
Ogura, Shigetaro; and Handa, Yuichi, 4,707,059, Cl. 350-96.130.

Handel, Hubert: *See*—
Schoening, Josef; Schmiedel, Fritz; Handel, Hubert; and Hobrecker, Hans-Peter, 4,654,189, Cl. 376-265.000.

Handel, Manfred: *See*—
Sonneborn, Siegfried; Handel, Manfred; Mack, Ernst; Gerstrom, Carl F.; and Sorensen, Peter, 4,654,931, Cl. 16-337.000.

Handelsbolaget Rodoverken: *See*—
Arbella, Rodolfo C. P., 4,651,401, Cl. 29-429.000.

Hander, Ralf: *See*—
Michel, Wolfgang; Paul, Heinz; Kostler, Dieter; Wilhelm, Frank; Rummel, Andreas; Scher, Gero; Henze, Wilfried; Hander, Ralf; Heinemann, Jurgen; and Ossowski, Manfred, 4,652,430, Cl. 422-142.000.

Handfield, Louis. Method and apparatus for making snow. 4,711,395, 12-8-87, Cl. 239-14.200.

Handi-Pac Inc.: *See*—
Sadaki, Hiroshi; Narita, Hirokazu; Imaizumi, Hiroyuki; Konishi, Yoshinori; Inaba, Takihiro; Hirakawa, Tatsuo; Taki, Hideo; Tai, Masaru; Watanabe, Yasuo; and Saikawa, Isamu, 4,673,738, Cl. 540-222.000.

Handke, Gunther; and Prozeller, Ernst, to Fichtel & Sachs AG. Shock strut for a vehicle. 4,655,439, 4-7-87, Cl. 267-8.00R.

Handke, Wayne A.; and Priest, Mark A., to Halliburton Company. Multiple reservoir transportation assembly for radioactive substances and related method. 4,698,510, 10-6-87, Cl. 250-506.100.

Handke, Wayne A.; and Priest, Mark A., to Halliburton Company. Multiple reservoir transportation assembly for radioactive substances and related method. 4,712,618, 12-15-87, Cl. 166-308.000.

Handler, Erich: *See*—
Strohmeier, Werner; Knoll, Dieter; and Handler, Erich, 4,676,65 Cl. 356-446.000.

Handler, Howard: *See*—
Folwell, Dale E.; and Handler, Howard, 4,700,111, Cl. 31 200.00R.

Handler, Isadore. Plunger type cartridge mixer for fluent materials. 4,676,655, 6-30-87, Cl. 366-130.000.

Handler, Milton E.; Sylvan, Richard; and Peterson, Michael, to Hirsh Company. Tool holder. 4,682,698, 7-28-87, Cl. 211-70.600.

Handler, Milton E.; Sylvan, Richard; and Peterson, Michael, to Hirsh Company. Support for workpieces. 4,699,343, 10-13-87, Cl. 248-157.000.

Handler, Milton E., and Baisch, Herbert, to Hirsh Company. Shelving assembly with drop-in shelf. 4,711,183, 12-8-87, Cl. 108-111.000.

Handler, Rudolf: *See*—
Liesch, Jean-Francois; Kassegger, Friedrich; and Handler, Rudolf, 4,647,020, Cl. 266-270.000.

Handlesman, Mark W.: *See*—
Clarke, William F., and Handlesman, Mark W., 4,657,470, Cl. 414-627.000.

Handley, James R.: *See*—
Pahade, Ravindra F.; Maloney, James J.; and Handley, James R., 4,654,686, Cl. 62-24.000.

Handlin, Dale L., Jr.: *See*—
Wong, Pui K., and Handlin, Dale L., Jr., 4,708,990, Cl. 525-250.000.

Handling Systems Inc.: *See*—
Volakakis, John G.; McNelis, Robert L.; and Wallentin, Burt H., 4,688,688, Cl. 212-253.000.

Handotai Kenkyu Shinkokai: *See*—
Nishizawa, Junichi; and Ohmi, Tadahiro, 4,644,386, Cl. 357-23.300.
Nishizawa, Junichi; and Ohmi, Tadahiro, 4,660,062, Cl. 357-23.300.

Handrich, Eberhard; and Schroder, Werner, to Litef GmbH. Method and apparatus for measuring angular rate with a passive optical resonator. 4,702,600, 10-27-87, Cl. 356-350.000.

Handschke, Detlef: *See*—
Jost, Jochen; and Handschke, Detlef, 4,662,960, Cl. 156-108.000.

Handschuch, Karl; and Bock, Erich, to Schubert & Salzer. Open-end spinning device. 4,697,409, 10-6-87, Cl. 57-401.000.

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Handschuher, Walter: *See*—
Hammer, Josef; and Handschuher, Walter, 4,709,872, Cl. 242-75.430.

Handsel, Arthur M.: *See*—
King, William W.; Handsel, Arthur M.; and Nguyen, David M., 4,667,756, Cl. 175-409.000.

Handte, Reinhard; Mildenberger, Hilmar; Bauer, Klaus; and Bieringer, Hermann, to Hoechst Aktiengesellschaft. Use of aryloxy compounds as antidotes. 4,668,276, 5-26-87, Cl. 71-88.000.

Handte, Reinhardt: *See*—
Becherer, Johannes; Handte, Reinhardt; Nestler, Hans J., and Kussmaul, Ulrich, 4,714,766, Cl. 548-217.000.

Handtmann, Dieter; and Kuhn, Ulrich, to Robert Bosch GmbH. Apparatus for measuring air quantity. 4,688,424, 8-25-87, Cl. 73-204.000.

Handtmann, Dieter: *See*—
Abt, Jurgen; Bollhagen, Heins; Handtmann, Dieter; Kuhn, Ulrich; and Stumpf, Sybille, 4,665,742, Cl. 73-168.000.

Handwerk, Roy R., to Menasco Inc. Attenuating, extendible shock-absorbing strut. 4,637,574, 1-20-87, Cl. 244-104.0FP.

Handwerk, Volker: *See*—
Knothe, Erich; Melcher, Franz-Josef; Maaz, Gunther; and Handwerk, Volker, 4,666,007, Cl. 177-245.000.

Handy Button Machine Company: *See*—
Bush, Earl D., 4,680,915, Cl. 52-766.000.
Bush, Earl D., 4,700,435, Cl. 24-94.000.

Handy & Harman: *See*—
McDonald, Allen S.; Philp, Charles W.; and Sperakis, Thomas A., 4,684,052, Cl. 228-122.000.

Handy, Richard L.; and Eichner, Don W., to Iowa State University Research Foundation, Inc. Back pressured pneumatic pressure cell. 4,662,213, 5-5-87, Cl. 73-37.000.

Handy, Roland J.: *See*—
Kadekodi, Narayan K.; Ibrahim, Abd-El-Fattah A.; Handy, Roland J., and Tandon, Jagdish C., 4,712,137, Cl. 358-213.290.

Handzel, Mark J.: *See*—
Paneth, Eric; Handzel, Mark J.; Morley, Steven A.; and Avis, Graham M., 4,675,863, Cl. 370-50.000.

Hane, Bengt, to Stiftelsen Institutet for Microvagsteknik. Method for measuring the moisture ratio of organic material, and apparatus herefor. 4,675,595, 6-23-87, Cl. 324-58.50B.

Hane, Fuyuki: *See*—
Hojo, Takeshi; Kawada, Shin-Ichi; Fukano, Michio; Yamamoto, Kanshi; Okamura, Youji; Sato, Kazuteru; Saito, Masahiko; and Hane, Fuyuki, 4,694,696, Cl. 73-497.000.

Hane, Toshiyuki, to NSK-Warner K.K. Position adjusting device for movable anchor latch mechanism. 4,695,076, 9-22-87, Cl. 280-804.000.

Hanechak, Edward S.; and Hanechak, Rita A. Fish filleting apparatus and method. 4,704,769, 11-10-87, Cl. 17-46.000.

Hanechak, Rita A.: *See*—
Hanechak, Edward S., and Hanechak, Rita A., 4,704,769, Cl. 17-46.000.

Haneda, Hajime: *See*—
Shirasaki, Shin-ichi; Hotta, Yasunari; Yamamura, Hiroshi; Matsuda, Shin-ichi; Kakegawa, Kazuyuki; Moriyoshi, Yusuke; Takahashi, Koichiro; and Haneda, Hajime, 4,696,810, Cl. 423-593.000.

Haneda, Hisao; Kashiwazaki, Masamichi; and Motai, Toshiki, to Mitsubishi Jukogyo Kabushiki Kaisha. Exhaust gas heat recovery boiler. 4,664,067, 5-12-87, Cl. 122-7.00R.

Haneda, Isamu: *See*—
Morino, Masuaki; Fujikawa, Yoshiyuki; Haneda, Isamu; and Myoi, Tetsuo, 4,636,970, Cl. 364-706.000.
Yoshida, Hidetaka; and Haneda, Isamu, 4,667,289, Cl. 364-200.000.

Haneda, Makoto: *See*—
Naka, Hiroshi; Seko, Ichiro; Kobayashi, Shuji; and Haneda, Makoto, 4,701,927, Cl. 372-46.000.

Haneda, Satoshi; Shoji, Hisashi; and Hiratsuka, Seichiro, to Konishiroku Photo Industry Co., Ltd. Method of and apparatus for image forming. 4,666,804, 5-19-87, Cl. 430-45.000.

Haneda, Satoshi; Itoh, Takashi; Nakamura, Ken; and Tomono, Makoto, to Konishiroku Photo Industry Co., Ltd. Method of developing electrostatic images using two component developer and AC charging. 4,675,267, 6-23-87, Cl. 430-102.000.

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Haneda, Satoshi: *See*—
Fukuchi, Masakazu; and Haneda, Satoshi, 4,702,987, Cl. 430-122.000.
Itaya, Masahiko; and Haneda, Satoshi, 4,664,505, Cl. 355-15.000.
Shoji, Hisashi; Haneda, Satoshi; and Hiratsuka, Seichiro, 4,641,200, Cl. 358-296.000.
Shoji, Hisashi; Haneda, Satoshi; Hiratsuka, Seichiro; Fuma, Hiroshi; Soma, Shinobu; Itaya, Masahiko; Tamura, Akihiko; and Hayakawa, Kazushi, 4,669,864, Cl. 355-15.000.
Shoji, Hisashi; Haneda, Satoshi; and Hiratsuka, Seichiro, 4,680,625, Cl. 358-80.000.
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Haneda, Takashi: *See*—
Taga, Yutaka; Morisawa, Kunio; Uno, Toshihiko; Ito, Masami; and Haneda, Takashi, 4,669,562, Cl. 180-53.100.

Hanefeld, Wolfgang; Rothlisberger, Rudi; and Noser, Friedrich, to Wella Aktiengesellschaft. 3-carbamoyl- and 3-thiocarbamoyl-tetrahydro-1,3-thiazine-2-thiones and skin treating compositions containing the same. 4,643,997, 2-17-87, Cl. 514-226.000.

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Haneishi, Yasuyuki, to Asahi Kogaku Kogyo Kabushiki Kaisha. Electric contact arrangement for individual objectives. 4,653,889, 3-31-87, Cl. 354-286.000.

Haneji, Yasuo: *See*—
Sugiyama, Hiroyuki; Sakurai, Masaki; Abe, Ryozo; Yoshihara, Kenji; and Haneji, Yasuo, 4,638,376, Cl. 358-342.000.

Hanel, Horst: *See*—
Bodensieck, Hans-Rudolf; Dobler, Karl-Otto; Hanel, Horst; Kohler, Kurt; Liedtke, Frieder; and Seliger, Siegfried, 4,658,340, Cl. 362-267.000.

Hanemaayer, Jacobus N., to Hanmar Home Equipment Limited. Convertible sitting-sleeping arrangement for recreational vehicle. 4,685,719, 8-11-87, Cl. 296-156.000.

Hanemaayer, Jacobus N., to Hanmar Home Equipment Limited. Recreational vehicle incorporating an integrated venting system. 4,699,207, 10-13-87, Cl. 165-41.000.

Hanes, Ronnie M., to National Distillers and Chemical Corporation. Conjugated alkadiene telomerization to organo-oxyalkadienes. 4,642,392, 2-10-87, Cl. 568-690.000.

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Hanes, Ronnie M.; and Baugh, William D., to National Distillers and Chemical Corporation. Cyclic esters. 4,675,435, 6-23-87, Cl. 560-119.000.

Hanes, Ronnie M.: *See*—
Chang, Biau-Hung; and Hanes, Ronnie M., 4,681,709, Cl. 260-410.900.

Hanessian, Stephen; and Bedeschi, Angelo, to Farmitalia Carlo Erba S.p.A. Process for the synthesis of penems and penams. 4,663,451, 5-5-87, Cl. 540-304.000.

Haney, Joe C.; and Sotelo, Albert M., to Gates Rubber Company, The. Compound adhesive formulation and composite hose made with the same. 4,652,475, 3-24-87, Cl. 428-36.000.

Haney, Joe C.: *See*—
Barnes, John A.; Sundberg, Harrell P.; and Haney, Joe C., 4,675,780, Cl. 361-215.000.

Haney, Keith M.; and Willis, Clyde A., to W-N Apache Corporation. Automatic pipe elevator. 4,650,236, 3-17-87, Cl. 294-110.100.

Haney, Ronald E.: *See*—
Levine, Jules D.; Jensen, Millard J.; and Haney, Ronald E., 4,691,076, Cl. 136-250.000.

Hanford, Donald E.: *See*—
Cummings, Michael J.; Hanford, Donald E.; and Japp, Robert M., 4,714,504, Cl. 156-64.000.

Hang, Paul E.: *See*—
Halpern, Peter H.; Mallory, Peter E.; Hang, Paul E.; and Koos, William M., Jr., 4,672,637, Cl. 375-96.000.

Hangarter, Otto; and Stillhard, Otmar, to Fritz Gegauf Aktiengesellschaft Bernina-Nahmaschinenfabrik. Adjustment and indicating device for an electronic sewing machine. 4,667,614, 5-26-87, Cl. 112-445.000.

Hanggi, Ernst: *See*—
Ronco, Ronald; Stingelin, Willy; and Hanggi, Ernst, 4,650,867, Cl. 544-197.000.

Hanhikoski, Hannu; Kalliola, Lauri; and Malkia, Hannu, to Oy Wartsila AB. Method and arrangement for web handling. 4,642,164, 2-10-87, Cl. 162-207.000.

Hani, Kiyoshi: *See—*

Kawamura, Toshimi; Yamada, Tadatoshi; Hani, Kiyoshi; and Yoshizaki, Kiyoshi, 4,694,268, Cl. 335-216.000.

Hanifl, Paul H., to Sage Products, Inc. Closure for a syringe collection and disposal container. 4,657,139, 4-14-87, Cl. 220-336.000.

Hanifl, Paul H., to Sage Products, Inc. Sharps disposal system. 4,715,498, 12-29-87, Cl. 206-366.000.

Hanifl, Paul H.; and Newton, John J., Jr., to Sage Products, Inc. Tissue grinding and transport system and method. 4,715,545, 12-29-87, Cl. 241-169.100.

Hanin, Jean A.; and Verrier, Pierre E., to Exxon Research & Engineering Co. Ether-containing mixtures in flexible PVC. 4,683,343, 7-28-87, Cl. 568-594.000.

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Hanin, Jean A. A., to Exxon Research & Engineering Co. Hydroformylation of olefins. 4,658,068, 4-14-87, Cl. 568-451.000.

Hanisch, Horst: *See—*

Suerken, Hans P.; Amort, Jurgen; Hanisch, Horst; and van der Maas, Hendrikus, 4,649,220, Cl. 564-296.000.

Hanisch, Michael: *See—*

Bauer, Karl; and Hanisch, Michael, 4,644,622, Cl. 28-271.000.

Hanisko, John C. P.; and Borowski, Victor J. Automotive anti-theft device. 4,672,225, 6-9-87, Cl. 307-10.0AT.

Hank, Dietrich; and Hauer, Kerstin, to VEB Kombinat Polygraph "Werner Lamberz" Leipzig. Feed roll for material web transporting and measuring web tension. 4,693,126, 9-15-87, Cl. 73-862.480.

Hanka, Steven A.: *See—*

Baier, Steven M.; Cirillo, Nicholas C., Jr.; Hanka, Steven A.; and Shur, Michael S., 4,638,341, Cl. 357-15.000.

Hankammer, Heinz, to Brita Wasserfilter GmbH. Insert for a water purifier. 4,666,600, 5-19-87, Cl. 210-266.000.

Hanke, Ernst W.; Bonk, Benno; and Schmitz, Erwin, to Christian Pfeiffer, Firma. Rotary basket air classifier. 4,661,244, 4-28-87, Cl. 209-139.200.

Hanke, Reinhart: *See—*

Cvitas, Vilim; Faltejsek, Karl; Hanke, Reinhart; Janusch, Alois; and Larch, Gerhard, 4,635,899, Cl. 494-44.000.

Hanker, Jacob S.: *See—*

Giammara, Beverly L.; and Hanker, Jacob S., 4,690,901, Cl. 436-86.000.

Hankin Management Services Ltd.: *See—*

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Hankin, Steven C.: *See—*

Eads, Rand E.; Boolootian, Mark R.; and Hankin, Steven C., 4,660,422, Cl. 73-863.020.

Hankins, Dale E., to United States of America, Energy. CR-39 track etching and blow-up method. 4,648,950, 3-10-87, Cl. 204-129.400.

Hankins, Kevin T.; Michael, Mark W.; Rosier, Brian K.; and Moser, Jay D., to Harris Corporation. Method of making an intergrated vertical NPN and vertical oxide fuse programmable memory cell. 4,635,345, 1-13-87, Cl. 29-577.00C.

Hankins, Kevin T.; Michael, Mark W.; Moser, Jay D.; and Rosier, Brian K., to Harris Corporation. Integrated verticle NPN and vertical oxide fuse programmable memory cell. 4,701,780, 10-20-87, Cl. 357-51.000.

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Hankinson, Julian E., Jr., to Young Engineering Inc. Joining continuous lengths of web materials. 4,700,642, 10-20-87, Cl. 112-121.140.

Hankinson, Michael F., to Westinghouse Electric Corp. Pivotably mounted reactor shroud shield and shielding method. 4,654,188, 3-31-87, Cl. 376-260.000.

Hankinson, Michael F.: *See—*

Malandra, Louis J.; Leduc, Robert J.; Hankinson, Michael F.; and Kowalski, Edward F., 4,678,623, Cl. 376-260.000.

Hankinson, Risdon W.: *See—*

Kuchinski, Joseph; Hankinson, Risdon W.; and Rosvold, Charles J., 4,689,120, Cl. 202-117.000.

Hankison, Paul M. Parking guide. 4,641,994, 2-10-87, Cl. 404-6.000.

Hankison, Paul M., to ACT Laboratories, Inc. Continuous, static mixing apparatus. 4,647,212, 3-3-87, Cl. 366-165.000.

Hankovszky, Olga H.: *See—*

Hideg, Kalman; Hankovszky, Olga H.; Frank, Laszlo; Bodi, Ilona; and Csak, Jozsef, 4,703,056, Cl. 514-414.000.

Hanks, James V.; Raines, Charles D.; and Dayen, Leonid, to Horton Manufacturing Co., Inc. Coupling clutch having axially captured, rotatable housing. 4,633,991, 1-6-87, Cl. 192-85.0CA.

Hanks, James V., to Horton Manufacturing Co., Inc. Clutch having an output with break away connection. 4,635,768, 1-13-87, Cl. 192-30.00W.

Hanks, James V.; and Brooks, Edward, to Hortor Manufacturing Co., Inc. Two-speed clutch. 4,657,126, 4-14-87, Cl. 192-48.910.

Hanks, James V.; Raines, Charles D.; and Dayen, Leonid, to Horton Manufacturing Co., Inc. Coupling clutch. 4,679,675, 7-14-87, Cl. 192-67.00R.

Hanlen, John W.: *See—*

Munson, Robert E.; Haddad, Hussain A.; and Hanlen, John W., 4,684,952, Cl. 343-700.0MS.

Hanlet, Jacques M., to Intent Patents A.G. Electrodeless fluorescent lighting system. 4,675,577, 6-23-87, Cl. 315-248.000.

Hanley, Harold G.: *See—*

Tischhauser, Thomas J.; and Hanley, Harold G., 4,700,027, 200-52.00R.

Hanley, Martin G.; Gowan, James L.; and Deschamps, Robert L., Sky-Top Sunroofs, Ltd. Sliding and venting sunroof. 4,650,24 3-17-87, Cl. 296-221.000.

Hanley, Martin G.; Gowan, James L.; and Deschamps, Robert L., Sky-Top Sunroofs, Ltd. Sliding and venting sunroof. 4,652, 3-24-87, Cl. 296-221.000.

Hanley, Michael: *See—*

Turner, Michael J. B.; Hanley, Michael; and Hartwell, Eric 4,640,231, Cl. 119-155.000.

Hanlon, David J.: *See—*

Almond, Stephen W.; and Hanlon, David J., 4,664,713, 106-209.000.

Hanlon, James T.; and Renaut, Paul W., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Relay switch apparatus. 4,680,563, 7-14-87, Cl. 335-58.000.

Hanlon, Nicholas S.: *See—*

Randall, Osro W., III; Kernstock, John M.; Hanlon, Nicholas and Erickson, Stephen H., 4,654,247, Cl. 428-95.000.

Hanlon, Stephen P.; Kerby, Walter L.; Purdy, Edmund R.; and Ste James, to Deseret Medical, Inc. Pressure transducer. 4,67 7-14-87, Cl. 128-675.000.

Hanma, Kentaro; and Masuda, Michio, to Hitachi, Ltd. Electronic camera. 4,675,747, 6-23-87, Cl. 358-335.000.

Hanma, Kentaro: *See—*

Kobori, Yasunori; Hanma, Kentaro; and Gotoh, Toshih 4,703,366, Cl. 358-335.000.

Hanmar Home Equipment Limited: *See—*

Hanemaayer, Jacobus N., 4,685,719, Cl. 296-156.000.

Hanemaayer, Jacobus N., 4,699,207, Cl. 165-41.000.

Hanmyo, Masayuki: *See—*

Nakahara, Takafumi; Fujiwara, Makoto; Kondo, Mit Miyawaki, Yoshiharu; Hanmyo, Masayuki; Kinoshita, Shi Matsui, Masao; Tamura, Konoshin; and Murata, Susu 4,671,752, Cl. 425-7.000.

Hann, Michael M.: *See—*

Donald, David K.; Hann, Michael M.; Saunders, John; and Wadsworth, Harry J., 4,681,966, Cl. 558-255.000.

Hann, William L.; and Fuller, Stanley E., to Commercial Alumin Cookware Company. Supporting rack for cooking utensils. 4,714, 12-22-87, Cl. 211-113.000.

Hann, William M.: *See—*

Amick, David R.; Hann, William M.; and Natoli, John, 4,711, Cl. 210-701.000.

Hanna-Beric Systems, Inc.: *See—*

MacLeod, Kenneth H., 4,666,346, Cl. 405-269.000.

Steen, Wayne R.; and Aitken, William J., 4,685,841, Cl. 406-84.00

Hanna, Daniel C. Vehicle washing apparatus and brush constructi 4,670,929, 6-9-87, Cl. 15-53.0AB.

Hanna, Gayda; and Vadino, Winston A., to Schering Corporation. Controlled release dosage form comprising acetaminophen, pseudoephedrine sulfate and dexbrompheniramine maleate. 4,657, 4-14-87, Cl. 424-488.000.

Hanna, Gayda; and Vadino, Winston A., to Schering Corporation. Controlled release dosage forms comprising hydroxypropylmethyl cellulose. 4,695,591, 9-22-87, Cl. 514-781.000.

Hanna, Glenn W. Reinforced ingot mold. 4,664,354, 5-12-87, C 249-135.000.

Hanna, John E. Marking apparatus. 4,669,905, 6-2-87, Cl. 401-208.0

Hanna, John E.; and Miller, Ira, to Motorola, Inc. Low voltage cla 4,689,651, 8-25-87, Cl. 357-36.000.

Hanna, John E.: *See—*

Miller, Ira; and Hanna, John E., 4,698,737, Cl. 363-63.000.

Hanna, Junichi: *See—*

Hirooka, Masaaki; Ishihara, Shunichi; Hanna, Junichi; and Shim Isamu, 4,657,777, Cl. 427-39.000.

Hanna, Marie R.: *See—*

Sprecker, Mark A.; Schreiber, William L.; Fujioka, Futoshi; Bo den, Richard M.; Vock, Manfred H.; Whelan, Patrick; an Hanna, Marie R., 4,636,333, Cl. 252-522.00R.

Sprecker, Mark A.; and Hanna, Marie R., 4,639,330, Cl. 2 522.00R.

Sprecker, Mark A.; and Hanna, Marie R., 4,668,432, Cl. 2 522.00R.

Hanna, Mark: *See—*

Kee, Gene A.; and Hanna, Mark, 4,681,171, Cl. 173-90.000.

Hanna, Mohsen R. Method for consolidating formation surrou borehole. 4,703,800, 11-3-87, Cl. 166-288.000.

Hanna, Nabil: *See—*

Bender, Paul E.; Griswold, Don E.; Hanna, Nabil; and Sara Henry M., 4,686,231, Cl. 514-333.000.

Hanna, Terry J.; and Greene, Neil E., to Owens-Corning Fibergla Corporation. Method and apparatus for forming glass fibe 4,676,813, 6-30-87, Cl. 65-2.000.

Hanna, Timothy D.: *See—*

Hardesty, Dennis L.; Hanna, Timothy D.; Wendt, Frank J.; an White, Kendall D., Jr., 4,634,498, Cl. 162-13.000.

Hanna, William T.: *See—*

Ball, David A.; Hanna, William T.; and Wilkinson, William 4,667,485, Cl. 62-476.000.

Hannaford, John J.; and Cunningham, John J., to National Railro Passenger Corporation. Crosstie boring apparatus. 4,649,971, 3-17- Cl. 144-3.00H.

Hannagan, Harold W.: *See*—
Burkdoll, Frank B.; and Hannagan, Harold W., 4,664,033, Cl. 102-275.200.
Burkdoll, Frank B.; and Hannagan, Harold W., 4,688,466, Cl. 89-1.140.

Hannah, Daniel E.; Miliczky, Eugene W.; Bea, Clifford F.; and Hannah, Martin J., to Advanced Thermal Systems, Inc. Method for removing injectable material from a packing cylinder. 4,711,013, 12-8-87, Cl. 29-402.020.

Hannah, John; and Christensen, Burton G., to Merck & Co., Inc. Antibacterial 7β-heterocyclic-cephem. 4,695,565, 9-22-87, Cl. 514-206.000.

Hannah, Martin J.: *See*—
Hannah, Daniel E.; Miliczky, Eugene W.; Bea, Clifford F.; and Hannah, Martin J., 4,711,013, Cl. 29-402.020.

Hannam, Peter H.: *See*—
Brooks, Kenneth J.; Wilkinson, Michael A.; Hannam, Peter H.; and Whiteside, Neil A., 4,702,252, Cl. 128-344.000.

Hannan, Peter W., to Hazeltine Corporation. Resistive loop angular filter. 4,638,324, 1-20-87, Cl. 343-909.000.

Hannan, Peter W., to United States of America, Air Force. Integrated defense communications system antijamming antenna system. 4,673,943, 6-16-87, Cl. 342-367.000.

Hannappel, Gerald J. Convertible load carrying apparatus for all terrain vehicles. 4,648,617, 3-10-87, Cl. 280-289.00A.

Hannappel, Gerald J. All terrain conversion system for three-wheeled vehicles. 4,687,447, 8-18-87, Cl. 440-11.000.

Hannart, Jean A. A. J.: *See*—
Trouet, Andre B. L.; Hannart, Jean A. A. J.; and Rao, Kandukuri S. B., 4,639,456, Cl. 514-283.000.

Hannebaum, Heinz: *See*—
Degner, Dieter; Hannebaum, Heinz; and Steiniger, Michael, 4,661,217, Cl. 204-59.00R.

Hanneken, Robert L. Corner and in-line fence post stress and bracing system. 4,682,761, 7-28-87, Cl. 256-36.000.

Hannel, Clifford L., to Lockheed Corporation. System for counterbalancing tool mount loads in a machine tool. 4,696,197, 9-29-87, Cl. 74-89.150.

Hanneman, Jeffery A.: *See*—
Engdahl, Jonathan R.; Hanneman, Jeffery A.; and Sweeton, David C., 4,667,323, Cl. 370-85.000.

Hannemann, Gerd K., to W. R. Grace & Co. Storage stable, heat curable, coating composition. 4,677,179, 6-30-87, Cl. 528-45.000.

Hannen, Reiner W., to MSK-Verpackungs-System Gesellschaft mit beschrankter Haftung. Shrink-wrapping apparatus, especially for stacked articles. 4,651,508, 3-24-87, Cl. 53-557.000.

Hannerz, Kare: *See*—
Fredell, Jan; and Hannerz, Kare, 4,666,661, Cl. 376-299.000.

Hannesen, Kurt: *See*—
Schmitt, Helmut; Schurig, Helmuth; Bergner, Dieter; and Hannesen, Kurt, 4,664,770, Cl. 204-252.000.
Staab, Rudolf; Bergner, Dieter; and Hannesen, Kurt, 4,639,303, Cl. 204-258.000.

Hannesson, James H.; and Eaton, Timothy C. Trunk lid holding device. 4,667,993, 5-26-87, Cl. 292-339.000.

Hanni, Eduard; and Zweili, Marcus, to Hammerle AG. Apparatus for positioning of sheet metal plates arranged on a metal feed table of a metal shear. 4,644,834, 2-24-87, Cl. 83-415.000.

Hanni, Eduard; and Walchli, Urs, to Hammerle AG. Apparatus for removing and stacking of sheet metal strips cut by a plate shear. 4,700,599, 10-20-87, Cl. 83-94.000.

Hanniala, Teuvo P. T., to Outokumpu Oy. Apparatus for processing sulphide concentrates and sulphide ores into raw material. 4,645,186, 2-24-87, Cl. 266-212.000.

Hannibal, Alan J. Composite sole for a shoe. 4,651,445, 3-24-87, Cl. 36-103.000.

Hannibal, Alan J.: *See*—
Krasnicki, Edward J.; Hannibal, Alan J.; and Pherson, Thomas R., 4,676,229, Cl. 128-4.000.

Hanning, John H.: *See*—
Hobbs, Richard E.; and Hanning, John H., 4,651,902, Cl. 222-153.000.

Hanning, Walter, to C. A. Weidmuller GmbH & Co. Electrical connector arrangement with a short-circuit bridge. 4,685,887, 8-11-87, Cl. 439-188.000.

Hannington, Geoff, to Fairchild Semiconductor Corporation. Transistor-transistor logic to emitter coupled logic translator. 4,654,549, 3-31-87, Cl. 307-475.000.

Hannington, Geoff, to Fairchild Semiconductor Corporation. Emitter coupled logic to transistor transistor logic translator. 4,677,320, 6-30-87, Cl. 307-475.000.

Hannon, Charles: *See*—
Gallo, Bruce M.; Hannon, Charles; and Augustin, Kurt, 4,699,591, Cl. 439-21.000.
Gallo, Bruce M.; Hannon, Charles; and Augustin, Kurt, 4,699,592, Cl. 439-27.000.

Hannon, Charles N.; and Vallender, Leonard J., to Hannon, Charles N. Apparatus for forming a pilfer proof container closure. 4,673,158, 6-16-87, Cl. 249-144.000.

Hannon, Charles N., to Stepper, Inc. Multi-purpose feeder for successively delivering single sheet or multi-leaved articles from a stack thereof. 4,702,467, 10-27-87, Cl. 271-133.000.

Hannon, Marwan; and Denekamp, Mark L. Integrated cargo security system. 4,688,244, 8-18-87, Cl. 379-58.000.

Hannon, William G.: *See*—
Momot, Stanley; and Hannon, William G., 4,709,634, Cl. 101-248.000.

Hannukainen, Hannu, to Valmet Oy. Electronic control system for a work implement. 4,658,908, 4-21-87, Cl. 172-10.000.

Hannula, Donald L.; and Coe, Frederick L., to American Hospital Supply Corporation. Implantable demand medication delivery assembly. 4,634,427, 1-6-87, Cl. 604-93.000.

Hannum, Joseph R., to Budd Company, The. Water treatment plastic products for rectangular clarifiers. 4,645,598, 2-24-87, Cl. 210-232.000.

Hannuniemi, Jukka, to Rauma-Repola Oy. Fluidized bed combustion device for a soda boiler. 4,676,735, 6-30-87, Cl. 431-170.000.

Hano, Sunao: *See*—
Akatsu, Yousuke; Yamaguchi, Hirotsugu; Fukushima, Naoto; Hano, Sunao; Sugino, Masaru; Takehara, Shin; and Matsui, Shinichi, 4,693,491, Cl. 280-688.000.
Yamaguchi, Hirotsugu; Fukushima, Naoto; Akatsu, Yohsuke; and Hano, Sunao, 4,702,490, Cl. 280-707.000.

Hanoka, Jack I.: *See*—
Gregory, James A.; Hanoka, Jack I.; and Vayman, Zinovy Y., 4,691,077, Cl. 136-256.000.

Hanosh, Alan L. Registration device for use in silk screen printing. 4,679,501, 7-14-87, Cl. 101-114.000.

Hanover Research Corporation: *See*—
Bonanno, Anthony J., 4,662,990, Cl. 159-20.100.
Bonanno, Anthony J., 4,702,798, Cl. 159-47.100.

Hanrot, Jean-Pascal; and Volpeliere, Jacky, to Aluminium Pechiney. Closed apparatus providing potential fluidization for horizontally conveying powder materials. 4,659,263, 4-21-87, Cl. 406-89.000.

Hanrot, Jean-Pascal; and Volpeliere, Jacky, to Aluminium Pechiney. Apparatus for distribution at a regulated rate of a fluidizable powdery material. 4,692,068, 9-8-87, Cl. 406-89.000.

Hans, Allan B.: *See*—
Holoubek, George H.; Anthony, Eugene M.; and Hans, Allan B., 4,666,063, Cl. 222-107.000.

Hans Deissenberger: *See*—
Dreher, Anton; and Gramer, Josef, 4,674,701, Cl. 242-110.200.

Hans-Dieter, Schmalz: *See*—
Gratz, Mathias; Hans-Dieter, Schmalz; Stadler, Gerald; and Hildenbrandt, Lothar, 4,705,290, Cl. 280-604.000.

Hans Dutina, Research & Development AB: *See*—
Dutina, Hans, 4,662,259, Cl. 83-821.000.

Hans Grohe GmbH & Co. KG: *See*—
Buzzi, Guenter, 4,667,700, Cl. 138-45.000.
Finkbeiner, Werner; and Schorn, Franz, 4,637,552, Cl. 239-428.500.
Finkbeiner, Werner, 4,669,666, Cl. 239-438.000.

Hans Huber GmbH: *See*—
Huber, Hans G., 4,634,524, Cl. 210-158.000.

Hans Kolbe & Co.: *See*—
Lindenmeier, Heinz; Manner, Ernst; and Flachenecker, Gerhard, 4,653,116, Cl. 455-205.000.

Hans Krummenauer GmbH & Co. KG: *See*—
Eisenbeis, Martin; Hemmer, Walter; and Krummenauer, Hans, 4,693,517, Cl. 299-87.000.

Hans, Rudiger: *See*—
Brandenstein, Manfred; Edelmann, Ludwig; Haas, Roland; Herrmann, Gerhard; and Hans, Rudiger, 4,643,700, Cl. 474-112.000.
Brandenstein, Manfred; Hans, Rudiger; and Winkler, Otmar, 4,650,398, Cl. 415-170.00R.
Brandenstein, Manfred; and Hans, Rudiger, 4,660,997, Cl. 384-490.000.
Brandenstein, Manfred; Haas, Roland; and Hans, Rudiger, 4,673,301, Cl. 384-428.000.

Hans, Waldemar; Linssen, Mathias; and Sauer, Rudolf, to Robert Bosch GmbH. Injection valve with upstream internal metering. 4,634,055, 1-6-87, Cl. 239-533.300.

Hans, Waldemar; Linssen, Mathias; and Sauer, Rudolf, to Robert Bosch GmbH. Injection valve. 4,651,931, 3-24-87, Cl. 239-533.900.

Hans, Waldemar; Kind, Wilhelm; Knapp, Heinrich; Kramer, Wolfgang; and Sauer, Rudolf, to Robert Bosch GmbH. Electromagnetically actuatable fuel injection valve. 4,700,891, 10-20-87, Cl. 239-132.500.

Hans, Waldemar: *See*—
Hafner, Udo; Hans, Waldemar; Kind, Wilhelm; Krauss, Rudolf; and Sauer, Rudolf, 4,678,124, Cl. 239-585.000.

Hansa Metallwerke AG: *See*—
Gruber, Walter F., 4,703,893, Cl. 239-391.000.
Kress, Hermann, 4,715,406, Cl. 137-625.170.
Kress, Hermann K., 4,650,120, Cl. 239-446.000.
Oberdorfer, Hans E., 4,651,774, Cl. 137-625.170.

Hansa Textilchemie GmbH: *See*—
Nickel, Friedhelm, 4,654,041, Cl. 8-137.000.

Hansch, Egon, to Ferag AG. Method of, and apparatus for, producing stacks of flexible flat products, especially printed products. 4,657,237, 4-14-87, Cl. 271-178.000.

Hansch, Egon, to Ferag AG. Method and apparatus for collating folded printed signatures using conveyors rotating about a central axis. 4,684,116, 8-4-87, Cl. 270-54.000.

Hansch, Egon: *See*—
Honegger, Werner; and Hansch, Egon, 4,684,117, Cl. 270-54.000.

Hansch, Theodor W.: *See*—
Hall, John L.; and Hansch, Theodor W., 4,700,150, Cl. 332-751.000.

Hanscom, Bradford E.; and Bond, Raymond G., to Fortel Corporation. Single tape automatic telephone answering machine. 4,672,659, 6-9-87, Cl. 379-79.000.

Hanscom, John F., to H.F. Hanscom & Company, Inc. Bundle tying machine. 4,705,080, 11-10-87, Cl. 140-93.00A.
Hansel, Allen; Centofanti, Ermand; and Natarajan, Thiagarajan, to Concurrent Computer Corporation. Power supply with battery backup. 4,694,194, 9-15-87, Cl. 307-66.000.
Hansel, Bradley L., to Delta Process Equipment Co., Inc. Apparatus for treating and purifying waste water. 4,650,577, 3-17-87, Cl. 210-195.300.
Hansel, Daniel A.: *See—*
Coenen, Joseph D.; and Hansel, Daniel A., 4,647,336, Cl. 156-580.100.
Hansel, George A., III, to W. L. Gore & Associates, Inc. Connector for coaxially shielded cable. 4,707,040, 11-17-87, Cl. 439-510.000.
Hansel, Gernot: *See—*
Maier, Peter; Hansel, Gernot; Henzler, Rolf; Walter, Hartmut; and Arnold, Gunter, 4,665,617, Cl. 30-374.000.
Maier, Peter; and Hansel, Gernot, 4,677,750, Cl. 30-376.000.
Hansel, James G.: *See—*
Fernbacher, John M.; and Hansel, James G., 4,683,947, Cl. 166-251.000.
Roberts, George W.; Hansel, James G.; and Shahani, Goutam H., 4,690,215, Cl. 166-261.000.
Hansel, Paul H.: *See—*
Roberts, Ernest E.; Hansel, Paul H.; and Hudgens, William O., 4,640,734, Cl. 156-562.000.
Hansell, Gregory L.: *See—*
Yaniv, Zvi; Cannella, Vincent D.; Hansell, Gregory L.; and Johnson, Robert R., 4,666,252, Cl. 350-333.000.
Hanselmann, Daniel: *See—*
Binder, Rolf; Hanselmann, Daniel; and Staheli, Christoph, 4,660,257, Cl. 19-80.00R.
Hansen, Albert F. Pipe coupling. 4,700,926, 10-20-87, Cl. 251-149.800.
Hansen, Anders N., to Broen Armatur A/S. Ball valve having valve housing with interior annular ridge for holding annular retaining element in position. 4,709,902, 12-1-87, Cl. 251-315.000.
Hansen, Bryan P.: *See—*
Blanc, James J.; Hansen, Bryan P.; and Kemper, Dale A., 4,654,565, Cl. 315-411.000.
Hansen, Charles: *See—*
Palmero, Albert; and Hansen, Charles, 4,714,853, Cl. 310-257.000.
Hansen, Charles A., to Ford Motor Company. Adjusting mechanism for tractor linkage. 4,712,445, 12-15-87, Cl. 74-491.000.
Hansen, Charles C., III; and Yencho, John A., to Hansen Technologies Corp. Float switch assembly for refrigeration system. 4,647,740, 3-3-87, Cl. 200-84.00C.
Hansen, Charles N. Deicing compositions. 4,698,173, 10-6-87, Cl. 252-70.000.
Hansen, Charles S.: *See—*
Peters, Douglas C.; and Hansen, Charles S., 4,709,955, Cl. 296-3.000.
Hansen, Charles W., to Tri-tech, Inc. Noiseless stepper motor. 4,655,099, 4-7-87, Cl. 74-421.00A.
Hansen, Craig N., to Hansen Engine Corporation. Rotary internal combustion engine. 4,667,468, 5-26-87, Cl. 60-39.600.
Hansen, Craig N., to Hansen Engine Corporation. Rotary pumping apparatus with radial seal assemblies on piston. 4,692,104, 9-8-87, Cl. 418-61.00R.
Hansen, Dale G. Spare tire carrier. 4,679,717, 7-14-87, Cl. 224-42.060.
Hansen, David E.; Kelbe, Richard R.; and Wolcott, Dana W., to Eastman Kodak Company. Low cost telephoto and normal lens camera with an extendable flash. 4,690,531, 9-1-87, Cl. 354-149.110.
Hansen, David L.: *See—*
Krutz, Gary; and Hansen, David L., 4,679,488, Cl. 91-1.000.
Hansen, Debra K.: *See—*
Bradley, John J.; and Hansen, Debra K., 4,642,109, Cl. 604-385.00Z.
Hansen, Derek, to Barr & Stroud Limited. Lasers. 4,672,617, 6-9-87, Cl. 372-23.000.
Hansen, Diethard: *See—*
Ari, Niyazi; Hansen, Diethard; Hoitink, Hendrik; and Schar, Hans, 4,672,523, Cl. 363-50.000.
Hansen, Donald F.: *See—*
Stewart, Harold S.; Hansen, Donald F.; and Turner, Vernon D., 4,687,337, Cl. 356-437.000.
Hansen, Donald J.; Goddard, John B.; and Malacarne, Oreste J., to U.S. Vanadium Corp. Method for recovering vanadium from vanadium-containing ore. 4,666,512, 5-19-87, Cl. 75-101.00R.
Hansen, Donald J. Cased water wells having flexible pad. 4,673,034, 6-16-87, Cl. 166-75.100.
Hansen, Donald J.: *See—*
Ramachandran, Sundaresan; Skiles, David O.; and Hansen, Donald J., 4,701,309, Cl. 423-20.000.
Hansen, Eckard, to Provenda Marketing AG. Tilting seat and back chair, particularly tilting desk chair. 4,682,814, 7-28-87, Cl. 297-300.000.
Hansen, Eckhard: *See—*
Machate, Rainer; Vonhausen, Robert; and Hansen, Eckhard, 4,685,733, Cl. 297-284.000.
Hansen, Elmer K., to Dodgen Industries. Conveyor belt assembly with self-adjusting tension. 4,653,634, 3-31-87, Cl. 198-813.000.
Hansen Engine Corporation: *See—*
Hansen, Craig N., 4,667,468, Cl. 60-39.600.
Hansen, Craig N., 4,692,104, Cl. 418-61.00R.
Hansen, Erich: *See—*
Gurs, Karl; and Hansen, Erich, 4,637,031, Cl. 372-86.000.
Hansen, Gerald D.; and Biber, Joseph N., to Atlantic Richfield C pany. Method and composition for inhibiting corrosion in aque heat transfer systems. 4,642,221, 2-10-87, Cl. 422-16.000.
Hansen, Gerald D., to Pony Industries, Inc. Polymer blend for disp sion of particulate materials in aqueous systems. 4,698,161, Cl. 210-701.000.
Hansen, Guenter: *See—*
Bergmann, Udo; Hansen, Guenter; and Zeidler, Georg, 4,63 Cl. 534-678.000.
Bergmann, Udo; Hahn, Erwin; and Hansen, Guenter, 4,668,77 534-765.000.
Hansen, Gunnar L., to Danfoss A/S. Varible displacement piston or motor. 4,703,682, 11-3-87, Cl. 92-12.200.
Hansen, Harmon R.; and Lingenfelter, Thomas A., to U.S.D. C Breathing regulator mouthpiece. 4,683,881, 8-4-87, Cl. 128-204.2
Hansen, Helge; Nystrom, Borje; and Torneng, Eyvin, to Nordi A/S. Method and means for repelling animals. 4,657,759, 4-14-87, C 424-83.000.
Hansen, Helge; Nystrom, Borje; and Torneng, Eyvin, to Nordi A/S. Method of shaping a polymer/steroid admixture into a prod for repelling non-predatory animals. 4,668,455, 5-26-87, C 264-143.000.
Hansen, Henning M.; Jacobsen, Hans E.; Hansen, Henry; Lassithiota Konstantin; Pedersen, Allan S.; and Nyrup, John, to Danfoss A/S Electromagnetic flow meter. 4,641,537, 2-10-87, Cl. 73-861.12
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Jacobsen, Hans E.; Hansen, Henning M.; Nyrup, John; Hanse Henry; and Lassithiotakis, Konstantin, 4,635,486, Cl. 73-861.1
Jacobsen, Hans E.; Hansen, Henning M.; Nyrup, John; Hanse Henry; and Lassithiotakis, Konstantin, 4,641,536, Cl. 73-861.1
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Jacobsen, Hans E.; Hansen, Henning M.; Nyrup, John; Hanse Henry; and Lassithiotakis, Konstantin, 4,635,486, Cl. 73-861.1
Jacobsen, Hans E.; Hansen, Henning M.; Nyrup, John; Hanse Henry; and Lassithiotakis, Konstantin, 4,641,536, Cl. 73-861.1
Hansen, James E. Holder for leaders. 4,691,471, 9-8-87, Cl. 43-57.2
Hansen, Jens M., to Prodent Ges. Fuer Zahnmed. Bedarfsartikel m Dental application fluid for the inspection of tooth contacts a prosthetic works. 4,643,678, 2-17-87, Cl. 433-217.100.
Hansen, Jens O. E., to Kongskilde Koncernselskab A/S. Pneum conveyor for particulate material. 4,695,206, 9-22-87, Cl. 406-65
Hansen, Jens Peter S., to Jens Peter Hansen, Aarhus A/S. Process making portioned cheese. 4,716,043, 12-29-87, Cl. 426-35.000.
Hansen, Jens S. Equipment and method for calibration of instrum having a temperature sensing unit. 4,643,586, 2-17-87, Cl. 374-1
Hansen, Jerry C.: *See—*
Swan, Dale G.; and Hansen, Jerry C., 4,656,242, Cl. 528-295.
Hansen, John B.: *See—*
Watjen, Frank; Engelstoft, Mogens; Hansen, John B.; and Jens Leif H., 4,670,433, Cl. 514-210.000.
Hansen, John C.; Ginder, Harold B.; and Johnson, Lloyd A. Diagno system for detecting faulty sensors in a refrigeration sys 4,653,280, 3-31-87, Cl. 62-127.000.
Hansen, John C.; Ginder, Harold B.; and Johnson, Lloyd A. Diagno system for detecting faulty sensors in liquid chiller air conditi system. 4,660,386, 4-28-87, Cl. 62-126.000.
Hansen, John M., to Emerson Electric Co. Motor starting and a matic reversing switch. 4,665,286, 5-12-87, Cl. 200-80.00R.
Hansen, John W.: *See—*
Herd, William H., Jr.; and Hansen, John W., 4,663,090, C 261-41.300.
Hansen, Jorgen. Controllable air valve for an inflatable body. 4,669,4 6-2-87, Cl. 137-223.000.
Hansen, Jorgen. Electrical jack-plug. 4,705,485, 11-10-87, C 439-669.000.
Hansen, Kenneth A.: *See—*
Kurtzman, Gary; Heck, Joseph P.; Hansen, Kenneth A.; Ende Ralph; and Vidugiris, Bronis, 4,714,899, Cl. 331-1.00A.
Hansen, Kenneth P., to United Technologies Corporation. Snap-a servo mechanism. 4,646,774, 3-3-87, Cl. 137-110.000.
Hansen, Knud A., to Danfoss A/S. Connecting apparatus for a radia 4,653,573, 3-31-87, Cl. 165-33.000.
Hansen, Kolbjorn, to Fried. Krupp Gesellschaft mit beschrank Haftung. Crusher with rotary plates. 4,679,741, 7-14-87, C 241-206.000.
Hansen, Kurt L.; and VanDenburgh, Ronald J., to General Elec Company. Method for assembly of tangential entry dovetailed buck assemblies on a turbomachine bucket wheel. 4,702,673, 10-27-87, C 416-215.000.
Hansen, Lavelle H.: *See—*
Snyder, Larry L.; Hansen, Lavelle H.; and Florer, Richa 4,660,733, Cl. 220-69.000.
Hansen, Lee D.: *See—*
Rowland, Donald G.; Hunter, Byron A.; and Hansen, Lee D 4,655,962, Cl. 252-350.000.
Rowland, Donald G.; Hunter, Byron A.; and Hansen, Lee D 4,692,475, Cl. 521-92.000.
Hansen, Lee E.: *See—*
Schoendorfer, Donald W.; and Hansen, Lee E., 4,713,176, C 210-645.000.
Hansen, Loren F.; and Lamb, Mark E., to Outboard Marine Corpor tion. Tine holder for turf aerating apparatus. 4,638,867, 1-27-87, C 172-22.000.

Hansen, Loren F.; and Lamb, Mark E., to Outboard Marine Corporation. Turf aerating apparatus. 4,645,012, 2-24-87, Cl. 172-22.000.

Hansen, Loren F.: *See—*
  Broman, Donald E.; Hansen, Loren F.; and Huber, Donald J., 4,709,541, Cl. 56-202.000.

Hansen, Lorin K.: *See—*
  Downing, Robert A.; and Hansen, Lorin K., 4,660,152, Cl. 364-509.000.

Hansen, Marcia K.: *See—*
  Jenekhe, Samson A.; and Hansen, Marcia K., 4,694,062, Cl. 528-232.000.
  Jenekhe, Samson A.; and Hansen, Marcia K., 4,711,946, Cl. 528-251.000.

Hansen, Markus. Device for measuring relative jaw positions and movements. 4,673,352, 6-16-87, Cl. 433-69.000.

Hansen, Ole M.: *See—*
  Eisenhardt, Anne R.; and Hansen, Ole M., 4,687,000, Cl. 128-760.000.

Hansen, Orville S. Portable balustrade and platform assembly. 4,664,227, 5-12-87, Cl. 182-82.000.

Hansen, Otto D.; and Nielsen, Bent K. Method and a system for peeling crustaceans. 4,639,976, 2-3-87, Cl. 17-48.000.

Hansen, Parley E.: *See—*
  Allebest, Edward F.; Hansen, Parley E.; Walsh, George A.; and Maguire, Walter R., 4,644,515, Cl. 369-32.000.
  Allebest, Edward F.; Hansen, Parley E.; Walsh, George A.; and Maguire, Walter R., 4,701,896, Cl. 369-32.000.

Hansen, Paul E.; and Marquardt, Susan K., to Minnesota Mining and Manufacturing Company. Inelastic, heat-elasticizable sheet material for diapers. 4,640,859, 2-3-87, Cl. 428-105.000.

Hansen, Paul E.: *See—*
  Nelson, David L.; Truskolaski, Bernard S.; and Hansen, Paul E., 4,634,612, Cl. 428-4.000.

Hansen, Peder U.; and Beazley, Mark D., to Hong Sheet Metal Pte. Limited. Structural connectors and/or structures. 4,635,413, 1-13-87, Cl. 52-92.000.

Hansen, Per K., to Position Orientation Systems, Ltd. Method and apparatus for position and orientation measurement using a magnetic field and retransmission. 4,642,786, 2-10-87, Cl. 364-559.000.

Hansen, Per K., to Position Orientation Systems, Ltd. Directional microphone system. 4,653,102, 3-24-87, Cl. 381-92.000.

Hansen, Peter J.: *See—*
  Gray, James P.; Hansen, Peter J.; Lerner, Michael A.; and Pozefsky, Mark, 4,688,035, Cl. 340-825.520.

Hansen, Ralph H., to Canusa Coating Systems Limited. Halo phthalimides of phenolic-substituted hydrazides. 4,687,797, 8-18-87, Cl. 524-94.000.

Hansen, Richard: *See—*
  Moore, Jeffrey E.; Evans, Brett A.; and Hansen, Richard, 4,715,979, Cl. 252-91.000.

Hansen, Robert D.: *See—*
  Klimpel, Richard R.; and Hansen, Robert D., 4,676,890, Cl. 209-166.000.
  Klimpel, Richard R.; and Hansen, Robert D., 4,684,459, Cl. 209-166.000.
  Klimpel, Richard R.; and Hansen, Robert D., 4,702,822, Cl. 209-166.000.

Hansen, Robert E., Jr.; Murray, James R.; and Zald, Roberta L., to GMF Robotics Corporation. Method for changing the tooling in a robot-based system and system utilizing same. 4,679,297, 7-14-87, Cl. 29-568.000.

Hansen, Robert R.; and Wingsness, David R., to Hansen, Robert R. Cord-dispensing spool caddie. 4,669,681, 6-2-87, Cl. 242-137.100.

Hansen, Russell A. Cotton tipped swab dispenser. 4,667,849, 5-26-87, Cl. 221-190.000.

Hansen, Steven D., to Sundstrad Data Control, Inc. System for compressing aircraft flight data utilizing a multilevel time format. 4,660,145, 4-21-87, Cl. 364-424.000.

Hansen, Stuart C.; and Truche, Jean-Luc, to Hewlett-Packard Company. Flow-limited direct GC/MS interface. 4,662,914, 5-5-87, Cl. 55-386.000.

Hansen, Svend; Rasmussen, Laurits B.; and Klausen, Jorn H., to Danfoss A/S. Valve arrangement with at least two diaphragms. 4,703,773, 11-3-87, Cl. 137-597.000.

Hansen Technologies Corp.: *See—*
  Hansen, Charles C., III; and Yencho, John A., 4,647,740, Cl. 200-84.00C.

Hansen, Terris L.; Hyatt, Wayne E.; and Leung, Wu-Hon F., to American Telephone and Telegraph Company and AT&T Bell Laboratories. Control of real-time systems utilizing a nonprocedural language. 4,695,977, 9-22-87, Cl. 364-900.000.

Hansen, V. Gregers: *See—*
  Cantwell, Robert H.; Marksteiner, William K.; and Hansen, V. Gregers, 4,710,772, Cl. 342-92.000.

Hansen, W. Peter, to Ortho Diagnostic Systems, Inc. Methods for immobilizing and translocating biological cells. 4,661,451, 4-28-87, Cl. 435-174.000.

Hansen, W. Peter: *See—*
  Kramer, Peter B.; and Hansen, W. Peter, 4,689,310, Cl. 436-512.000.

Hansen, Walter J.: *See—*
  Franklin, Duane R.; Evans, Archibald D.; and Hansen, Walter J., 4,712,653, Cl. 187-18.000.

Hansen, Werner, to Beiersdorf Aktiengesellschaft. Substituted 1-(4-amino-6,7-dialkoxyquinazolinyl)-4 cyclohexenyl derivatives of piperazine and homopiperazine, processes for their preparation and their use, formulations containing these compounds and intermediates. 4,639,453, 1-27-87, Cl. 514-254.000.

Hansen, William A.: *See—*
  Lamont, Charles E.; and Hansen, William A., 4,676,400, Cl. 222-1.000.

Hansen, William D.: *See—*
  Ammen, Mark E.; and Hansen, William D., 4,704,979, Cl. 114-98.000.

Hanser, Paul E.; and Van Roekel, Leroy A., to HWH Corporation. Portable log splitter. 4,655,269, 4-7-87, Cl. 144-193.00A.

Hanses, Harold J. Axle weight for motor vehicles. 4,688,823, 8-25-87, Cl. 280-759.000.

Hansford, Christopher M.: *See—*
  Bowyer, William H.; Crocker, Robert L.; Hansford, Christopher M.; Parker, Leslie K.; and Gray, Nigel, 4,678,194, Cl. 273-373.000.

Hansmann, Johann: *See—*
  Theurer, Josef; and Hansmann, Johann, 4,644,868, Cl. 104-7.200.

Hanson, Alan R., to New Ideas Incorporated. Rotary torque device. 4,671,141, 6-9-87, Cl. 81-53.200.

Hanson, Alden W., to Hanson, Helen L. Knot. 4,711,476, 12-8-87, Cl. 289-1.200.

Hanson, Allan W.; and Christiansen, Theron L., to Hughes Aircraft Company. Pivotable conical joint for waveguides. 4,701,731, 10-20-87, Cl. 333-257.000.

Hanson, Charles B., to J. I. Case Company. Variable geometry mounting arrangement for backhoe assembly. 4,715,771, 12-29-87, Cl. 414-688.000.

Hanson, Charles W.: *See—*
  Kamel, Ahmed A.; Graul, Donald W.; Savides, John; and Hanson, Charles W., 4,688,092, Cl. 358-109.000.

Hanson, Daniel R.; and Nesheim, Ludwig D., to Cherne Industries, Inc. Connector assembly for electrically connecting flexible and rigid printed circuits. 4,695,258, 9-22-87, Cl. 439-67.000.

Hanson, David W.; Koehn, Richard R.; Nash, Richard C.; and Fox, Lonnie G., to Fabcon, Inc. Strand chair for supporting prestressing cable and cross-mesh in elongated precast concrete plank. 4,644,727, 2-24-87, Cl. 52-687.000.

Hanson, Donald L.: *See—*
  Woffinden, Gary A.; and Hanson, Donald L., 4,682,281, Cl. 364-200.000.

Hanson, Douglas R. Dust inhibiting vacuum hood. 4,670,936, 6-9-87, Cl. 15-306.00B.

Hanson, Gary E., to Hewlett-Packard Company. Replaceable thermal ink jet component and thermosonic beam bonding process for fabricating same. 4,635,073, 1-6-87, Cl. 346-1.100.

Hanson, Gary R.; and Rabuse, George R., to Minnesota Mining and Manufacturing Company. Method and sheet for binding pages. 4,673,324, 6-16-87, Cl. 412-6.000.

Hanson, Gary R., to Minnesota Mining and Manufacturing Company. Cover for binding sheets. 4,697,970, 10-6-87, Cl. 412-4.000.

Hanson, Gary R., to Minnesota Mining and Manufacturing Company. Backing for binding sheets. 4,702,659, 10-27-87, Cl. 412-4.000.

Hanson, Gary R.: *See—*
  Hickenbotham, Brice G.; and Hanson, Gary R., 4,704,317, Cl. 428-156.000.

Hanson, George E., to Norand Corporation. Isolated power supply system and method. 4,694,237, 9-15-87, Cl. 320-6.000.

Hanson, Gunnar J.: *See—*
  Baran, John S.; and Hanson, Gunnar J., 4,657,931, Cl. 514-616.000.

Hanson, Gustaf H. Orthodontic brackets. 4,698,017, 10-6-87, Cl. 433-11.000.

Hanson, Harvey E.; and Amaniera, John A. Device for sharpening single-flute countersinks. 4,638,603, 1-27-87, Cl. 51-219.00R.

Hanson, Helen L.: *See—*
  Hanson, Alden W., 4,711,476, Cl. 289-1.200.

Hanson, James M.: *See—*
  Bradley, Irving; and Hanson, James M., 4,674,017, Cl. 362-349.000.

Hanson, James V.: *See—*
  Zutell, Stephen W.; Wade, David A.; and Hanson, James V., 4,706,818, Cl. 209-636.000.

Hanson, Jay L., to Thermo King Corporation. Transport refrigeration unit defrost control system. 4,646,529, 3-3-87, Cl. 62-155.000.

Hanson, Kenneth P.: *See—*
  Thorpe, Merle L.; and Hanson, Kenneth P., 4,657,503, Cl. 431-158.000.

Hanson, Larry K.; and Pritchett, Gregory M., to Fluorocarbon Company, The. Bimetallic spiral wound gasket. 4,673,187, 6-16-87, Cl. 277-26.000.

Hanson, Leon L.; and Iwanski, Thomas J. Load equalizer and stabilizer for leaf spring suspension systems. 4,671,535, 6-9-87, Cl. 280-718.000.

Hanson, Lester A. Vehicle tail gate ramp assembly. 4,668,002, 5-26-87, Cl. 296-61.000.

Hanson, Lowell C. Subterranean surveying apparatus. 4,694,437, 9-15-87, Cl. 367-27.000.

Hanson, Michael W., to Dixon Industries Corporation. Method of bonding polytetrafluoro-ethylene composition to metal substrates. 4,670,089, 6-2-87, Cl. 156-629.000.

Hanson, Paul B. Articulated head board assembly. 4,646,372, 3-3-87, Cl. 5-433.000.

Hanson, Robert K.; Loeffler, Herbert H.; and Mattera, Philip J., to Hanson Technology Corp. Machine for making sandwiches. 4,685,387, 8-11-87, Cl. 99-450.400.

Hanson, Russell: *See—*
  Lala, Sharookh; Lehnerer, Patrick; Hanson, Russell; and Stevens, Michael, 4,641,814, Cl. 254-10.500.

Hanson, Stephen R., to Scripps Clinic and Research Foundation. Vascular prosthesis. 4,687,482, 8-18-87, Cl. 623-1.000.
Hanson, Stephen R.: *See*—
Hoffman, Allan S.; Garfinkle, Andrew; Ratner, Buddy D.; and Hanson, Stephen R., 4,656,083, Cl. 428-265.000.
Hanson, Steven P.: *See*—
Breslow, Jeffrey D.; Morrison, Howard J.; Hanson, Steven P.; and Rasmussen, Russell G., 4,710,873, Cl. 364-410.000.
Zaruba, John V.; Hanson, Steven P.; and Kuna, Wayne A., 4,708,348, Cl. 273-246.000.
Hanson Technology Corp.: *See*—
Hanson, Robert K.; Loeffler, Herbert H.; and Mattera, Philip J., 4,685,387, Cl. 99-450.400.
Hanson, Thomas C.; Fisher, Theodore F.; Weber, Joseph A.; and Pahade, Ravindra F., to Union Carbide Corporation. Process to produce cold helium gas for liquefaction. 4,701,201, 10-20-87, Cl. 62-27.000.
Hanson, Thomas C.; Fisher, Theodore F.; and Weber, Joseph A., to Union Carbide Corporation. Process to produce high pressure methane gas. 4,710,212, 12-1-87, Cl. 62-23.000.
Hanson, Thomas C.: *See*—
Fisher, Theodore F.; Hanson, Thomas C.; and Weber, Joseph A., 4,701,200, Cl. 62-27.000.
Hanss, Karl; Schupp, Karl; and Block, Siegfried, to Siemens Aktiengesellschaft. Circuit arrangement for connecting a subscriber to a bus line via switch means under which prevents disabling of the bus line in the event of driver failure. 4,656,471, 4-7-87, Cl. 340-825.160.
Hanssen, Carl-Otto, to Molnlycke AB. Surgical drape and arrangement for securing the surgical drape in position. 4,688,563, 8-25-87, Cl. 128-132.00D.
Hanssen, David H., to Frommelt Industries, Inc. Impact-resistant overhead door. 4,676,293, 6-30-87, Cl. 160-201.000.
Hanssens, Theodoor R.: *See*—
Koerts, Kees; and Hanssens, Theodoor R., 4,702,839, Cl. 210-638.000.
Hanssler, Gerd: *See*—
Fest, Christa; Brandes, Wilhelm; Hanssler, Gerd; and Reinecke, Paul, 4,716,176, Cl. 514-477.000.
Forster, Heinz; Diehr, Hans-Joachim; Maurer, Fritz; Klauke, Erich; Eue, Ludwig; Santel, Hans-Joachim; Schmidt, Robert R.; Reinecke, Paul; and Hanssler, Gerd, 4,708,731, Cl. 71-90.000.
Gayer, Herbert; Brandes, Wilhelm; Hanssler, Gerd; and Reinecke, Paul, 4,689,343, Cl. 514-445.000.
Heinemann, Ulrich; Knops, Hans-Joachim; Steinbeck, Karl; Brandes, Wilhelm; Hanssler, Gerd; and Reinecke, Paul, 4,642,312, Cl. 514-364.000.
Ingendoh, Axel; Berschauer, Friedrich; Becker, Benedikt; Stendel, Wilhelm; Homeyer, Bernhard; Scheer, Martin; de Jong, Anno; Hanssler, Gerd; and Reinecke, Paul, 4,678,797, Cl. 514-378.000.
Jelich, Klaus; Kramer, Wolfgang; Brandes, Wilhelm; Hanssler, Gerd; and Reinecke, Paul, 4,666,933, Cl. 514-404.000.
Marzolph, Gerhard; Blank, Heinz U.; Reinecke, Paul; Brandes, Wilhelm; and Hanssler, Gerd, 4,666,935, Cl. 514-424.000.
Salzburg, Herbert; Hajek, Manfred; and Hanssler, Gerd, 4,666,930, Cl. 514-373.000.
Salzburg, Herbert; Hajek, Manfred; and Hanssler, Gerd, 4,667,041, Cl. 548-212.000.
Salzburg, Herbert; Hajek, Manfred; Hanssler, Gerd; and Kuck, Karl-Heinz, 4,683,233, Cl. 514-253.000.
Salzburg, Herbert; Hajek, Manfred; Hagemann, Hermann; Kuhle, Engelbert; Fuhrer, Wolfgang; Hanssler, Gerd; Brandes, Wilhelm; and Reinecke, Paul, 4,713,389, Cl. 514-373.000.
Sasse, Klaus; Brandes, Wilhelm; Hanssler, Gerd; Reinecke, Paul; Schmitt, Hans-Georg; and Paulus, Wilfried, 4,663,327, Cl. 514-275.000.
Schwamborn, Michael; Kuhle, Engelbert; Klauke, Erich; Eue, Ludwig; Schmidt, Robert R.; Santel, Hans-Joachim; and Hanssler, Gerd, 4,640,923, Cl. 514-272.000.
Stetter, Jorg; Wroblowsky, Heinz-Jurgen; Schmidt, Robert R.; Santel, Hans-Joachim; Hanssler, Gerd; and Lurssen, Klaus, 4,638,004, Cl. 514-272.000.
Stetter, Jorg; Schmidt, Robert R.; Santel, Hans-Joachim; Hanssler, Gerd; and Eue, Ludwig, 4,659,366, Cl. 71-92.000.
Hansson, Bengt G.: *See*—
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Molin, Nils L.; Welander, Thomas G.; Hansson, Bengt G.; Andersson, Per-Erik; and Olsson, Bengt A. G., 4,663,043, Cl. 210-603.000.
Hansson, Bengt L., to Bejaco AB. Method of mixing an atomized liquid into a gas flow and a device for carrying out said method. 4,674,682, 6-23-87, Cl. 239-8.000.
Hansson, Curt, to Kraftelektronik AB. Electrostatic dust precipitator. 4,713,093, 12-15-87, Cl. 55-139.000.
Hansson, Goran. Method of treating wood. 4,698,305, 10-6-87, Cl. 435-171.000.
Hansson, Per E. A.; and Jachimowicz, Felek, to W. R. Grace & Co. Water soluble polyamidoaminepolyamine having weight average molecular weight of at least 5×10^5. 4,689,374, 8-25-87, Cl. 525-435.000.
Hansson, Stig; and Jorgensson, Einar, to Nobelpharma Aktiebolag. Package for sterile and contamination-free storage of artificial implants. 4,671,410, 6-9-87, Cl. 206-438.000.
Hansson, Torbjorn: *See*—
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Hansson, Volker: *See*—
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Hanstein, Friedrich: *See*—
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Hansz, Bernard: *See*—
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Hanten, Bernard A.; and Briggs, Gerald L. Campfire shield apparatus. 4,658,906, 4-21-87, Cl. 169-45.000.
Hantke, Klaus; and Brajder, Antonio, to Siemens Aktiengesellschaft. Improved pulse-width-modulation signal converter. 4,647,90 3-3-87, Cl. 340-347.0NT.
Hantschk, Gunther, to Netzsch-Mohnopumpen GmbH. Erecting rig for a well pump. 4,695,040, 9-22-87, Cl. 254-264.000.
Hantscho, Inc.: *See*—
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Hanula, Richard M. Yoke for railway car coupler assembly. 4,635,80 1-13-87, Cl. 213-67.00R.
Hanula, Richard M., to Scher Acquisition Corp. Coupler for a railway car coupler assembly. 4,637,518, 1-20-87, Cl. 213-64.000.
Hanula, Richard M.; and Kulieke, Fred C., Jr., to National Castings, Inc. Method of enhancing rigidity in a railway car coupler knuckle. 4,645,085, 2-24-87, Cl. 213-155.000.
Hanulec, Joseph, to ISC Cardion Electronics, Inc. Phase controlled frequency division multiplexed communications system. 4,683,56 7-28-87, Cl. 370-69.100.
Hanus, Dietmar: *See*—
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Hanwa Electronic Co., Ltd.: *See*—
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Hanx Associates: *See*—
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Hanya, Masado: *See*—
Kaneko, Koichi; and Hanya, Masado, 4,692,031, Cl. 368-18.000.
Hanya, Masao, to Seikosha Co., Ltd. Device for driving twist pendulums. 4,707,143, 11-17-87, Cl. 368-165.000.
Hanyen, Clyde K.: *See*—
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Hanyu, Susumu; Hara, Kazumasa; Sasano, Akiyoshi; and Koike, Mikio, to Janome Sewing Machine Co. Ltd. Sewing machine with a device for setting thread tension. 4,638,751, 1-27-87, Cl. 112-254.000.
Hanyu, Susumu; and Koide, Akio, to Janome Sewing Machine Industry Co., Ltd. Zigzag sewing machine. 4,643,120, 2-17-87, Cl. 112-466.000.
Hanyu, Susumu; Kata, Kenji; and Takahashi, Yoshitaka, to Janome Sewing Machine Co. Ltd. Automatic buttonhole stitching device of a computerized sewing machine. 4,648,340, 3-10-87, Cl. 112-447.000.
Hanyu, Susumu; and Kato, Kenji, to Janome Sewing Machine Industry Co., Ltd. Computer sewing machine. 4,660,488, 4-28-87, Cl. 112-454.000.
Hanyu, Susumu; Takenoya, Hideaki; and Mishima, Fumiyuki, to Janome Sewing Machine Industry Co., Ltd. Paper feeding mechanism of printing machine. 4,664,545, 5-12-87, Cl. 400-616.200.
Hanyu, Susumu; Hara, Kazumasa; Sasano, Akiyoshi; and Koike, Mikio, to Janome Sewing Machine Co. Ltd. Device of guiding drawing-out of a lower thread from a horizontal bobbin carrier of a sewing machine. 4,693,193, 9-15-87, Cl. 112-121.110.
Hanyu, Susumu, to Janome Sewing Machine Co. Ltd. Adjusting device of slack amount of lower thread in zigzag sewing machine. 4,693,198, 9-15-87, Cl. 112-443.000.
Hanyu, Susumu; Kasuga, Noburu; Hara, Kazumasa; and Koike, Mikio, to Janome Sewing Machine Co., Ltd. Sewing machine with an automatic thread tension device. 4,702,185, 10-27-87, Cl. 112-254.000.
Hanyu, Susumu: *See*—
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Hanyuda, Toshiaki, to Showa Highpolymer Co. Ltd. Modified phenolic resin composition. 4,640,937, 2-3-87, Cl. 522-31.000.
Hanz, George, to Siemens Gammasonics, Inc. Patient support. 4,688,780, 8-25-87, Cl. 269-328.000.
Hanz, George J.; Jung, Guenter; and Pflaum, Michael, to Siemens Gammasonics, Inc. Detector head mounting mechanism and supporting structure. 4,692,625, 9-8-87, Cl. 250-363.00R.
Hanzawa, Kohtaro; Morikawa, Shigenori; Morokuma, Hiroshi; and Sasaki, Hiroyuki, to Casio Computer Co., Ltd. Electronic musical instrument with waveform memory for storing waveform data based on external sound. 4,667,556, 5-26-87, Cl. 84-1.010.
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Morikawa, Shigenori; Hanzawa, Kohtaro; Sasaki, Hiroyuki; and Morokuma, Hiroshi, 4,681,008, Cl. 84-1.280.
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Hanzawa, Shigeru: *See*—
Ogawa, Yutaka; Ogasawara, Takayuki; and Hanzawa, Shigeru, 4,662,331, Cl. 123-270.000.
Ogawa, Yutaka; Ogasawara, Takayuki; and Hanzawa, Shigeru, 4,681,074, Cl. 123-271.000.

- Hanzawa, Yoshiki: *See—*
  - Ishizaka, Hideo; and Hanzawa, Yoshiki, 4,648,055, Cl. 364-557.000.
- Hanzlik, Andrew. Jogger's hand weight & water bottle for drinking. 4,703,927, 11-3-87, Cl. 272-122.000.
- Hao, Yu-Lee, to Biotech Research Laboratories, Inc. Isolation of an endotoxin inactivator from human plasma. 4,677,194, 6-30-87, Cl. 530-350.000.
- Haond, Michel; Bensahel, Daniel; and Dutartre, Didier, to Etat Francais represente par le Ministre des PTT (Centre National d'Etudes des Telecommunications). Process for the production of an insulating support on an oriented monocrystalline silicon film with localized defects. 4,678,538, 7-7-87, Cl. 156-643.000.
- Happ, Lawrence R.; Stark, Gerald A.; and Drensky, Stephen M., to Cherry Corporation, The. Probe actuated switch. 4,703,147, 10-27-87, Cl. 219-10.55C.
- Happ, Mathias; and Hood, John, to Happs, Inc. Railroad rail fragmenting apparatus and method for fragmenting rails. 4,646,954, 3-3-87, Cl. 225-2.000.
- Happ, Ortwin: *See—*
  - Kirchner, Albert; Schoen, Juergen; and Happ, Ortwin, 4,638,204, Cl. 310-239.000.
- Happs, Inc.: *See—*
  - Happ, Mathias; and Hood, John, 4,646,954, Cl. 225-2.000.
- Happy, Henry: *See—*
  - Sandt, Hartley; and Happy, Henry, 4,647,080, Cl. 285-297.000.
  - Sandt, Hartley; and Happy, Henry, 4,714,377, Cl. 405-154.000.
- Happy Industrial Corporation: *See—*
  - Takauchi, Mitsuyoshi, 4,708,074, Cl. 112-453.000.
- Happy Jack, Inc.: *See—*
  - Williams, Clarence O., 4,700,506, Cl. 43-113.000.
- Happy Mishin Seizou Kabushiki Kaisha: *See—*
  - Takauchi, Mitsuyoshi; and Takeda, Toshio, 4,658,744, Cl. 112-466.000.
- Happycard International Limited: *See—*
  - Ostermeier, Heinrich, 4,634,248, Cl. 354-75.000.
- Haq, Mohammed E. U.: *See—*
  - Logwood, Dennis J.; Haq, Mohammed E. U.; Reed, John A.; and Karp, Joel A., 4,679,171, Cl. 365-154.000.
- Haq, Zia: *See—*
  - Cox, Ian R.; and Haq, Zia, 4,659,564, Cl. 424-65.000.
  - Jones, Keith; Lothian, Barry R.; Martin, Alexander; Taylor, Graham; and Haq, Zia, 4,668,709, Cl. 521-146.000.
- Hara, Akio: *See—*
  - Fujii, Hiroshi; Hara, Akio; Kobayashi, Mitsunori; and Mori, Yoshikatsu, 4,643,620, Cl. 407-119.000.
  - Kodama, Mitsuo; Miyake, Masaya; Nakano, Minol; Asai, Tsuyoshi; and Hara, Akio, 4,639,352, Cl. 419-15.000.
- Hara, Akira; Ohnuma, Hiraku; and Takagi, Toshisaburo, to Baldwin-Japan Ltd. Filter device. 4,671,869, 6-9-87, Cl. 210-119.000.
- Hara, Akira; Miyake, Masaya; and Yazu, Shuji, to Sumitomo Electric Industries, Ltd. Composite compact having a base of a hard-centered alloy in which the base is joined to a substrate through a joint layer and process for producing the same. 4,686,080, 8-11-87, Cl. 419-8.000.
- Hara, Eiichi: *See—*
  - Mego, Kazuyoshi; Hiratsuka, Shigetoshi; and Hara, Eiichi, 4,636,813, Cl. 346-76.0PH.
- Hara, Elmer H.: *See—*
  - Dobrowolski, Jerzy A.; and Hara, Elmer H., 4,707,064, Cl. 350-96.190.
  - MacDonald, Robert I.; Hara, Elmer H.; and Poirier, Arthur L., 4,686,533, Cl. 342-373.000.
- Hara, Hajime; Orii, Shingo; Aoyama, Kazuho; and Enomoto, Masami, to Nippon Oil Company, Ltd. Thermosetting resin composition. 4,639,503, 1-27-87, Cl. 528-92.000.
- Hara, Hajime: *See—*
  - Orii, Shingo; Hara, Hajime; Satoh, Tetsuo; Toya, Tomohiro; and Iida, Shigeki, 4,652,626, Cl. 528-194.000.
  - Toya, Tomohiro; Hara, Hajime, Iida, Shigeki; and Satoh, Tetsuo, 4,698,397, Cl. 525-437.000.
- Hara, Hidetoshi: *See—*
  - Saito, Mituo; Hara, Hidetoshi; and Hanada, Hideto, 4,646,549, Cl. 72-88.000.
- Hara, Hideyuki: *See—*
  - Kobayashi, Takao; Abe, Shigeo; Bandoh, Tadaaki; Takatoo, Masao; Matsumoto, Hidekazu; and Hara, Hideyuki, 4,644,490, Cl. 364-748.000.
- Hara, Hikoyoshi: *See—*
  - Hashimoto, Koichi; Sugai, Haruo; Hara, Hikoyoshi; and Yamada, Norio, 4,686,967, Cl. 128-57.000.
- Hara, Hiroshi: *See—*
  - Aono, Toshiaki; and Hara, Hiroshi, 4,639,407, Cl. 430-203.000.
  - Aono, Toshiaki; and Hara, Hiroshi, 4,713,319, Cl. 430-567.000.
- Hara, Hiroyuki; Nakamura, Michinori; and Sugimoto, Yasuhiro, to Kabushiki Kaisha Toshiba. Voltage level converting circuit. 4,695,750, 9-22-87, Cl. 307-475.000.
- Hara, Hisao: *See—*
  - Tsukuda, Yasuo; Hara, Hisao; Harada, Hideki; and Iizuka, Yasuo, 4,715,178, Cl. 60-272.000.
- Hara, Isao: *See—*
  - Takaki, Usaji; Sudo, Isamu; Matsuhisa, Toshio; and Hara, Isao, 4,661,620, Cl. 560-104.000.
- Hara, Katsuhiko: *See—*
  - Nakatomi, Yasuo; Hara, Katsuhiko; Umeda, Fumio; Kono, Toshiaki; and Niimoto, Hisashi, 4,693,898, Cl. 426-19.000.
- Hara, Kazumasa; Koike, Mikio; and Sasano, Akiyoshi, to Janome Sewing Machine Co. Ltd. Automatic upper thread tension control for a sewing machine. 4,690,083, 9-1-87, Cl. 112-254.000.
- Hara, Kazumasa; Sasano, Akiyoshi; and Koike, Mikio, to Janome Sewing Machine Co. Ltd. Upper and lower thread tension devices for sewing machine. 4,704,975, 11-10-87, Cl. 112-238.000.
- Hara, Kazumasa: *See—*
  - Eguchi, Yasukata; Hara, Kazumasa; and Hisatake, Michio, 4,690,082, Cl. 112-254.000.
  - Eguchi, Yasukata; Hanyu, Susumu; Hara, Kazumasa; and Koike, Mikio, 4,700,644, Cl. 112-255.000.
  - Hanyu, Susumu; Hara, Kazumasa; Sasano, Akiyoshi; and Koike, Mikio, 4,638,751, Cl. 112-254.000.
  - Hanyu, Susumu; Hara, Kazumasa; Sasano, Akiyoshi; and Koike, Mikio, 4,693,193, Cl. 112-121.110.
  - Hanyu, Susumu; Kasuga, Noburu; Hara, Kazumasa; and Koike, Mikio, 4,702,185, Cl. 112-254.000.
  - Koike, Mikio; Goto, Kenzo; and Hara, Kazumasa, 4,662,292, Cl. 112-184.000.
- Hara, Kazuo: *See—*
  - Ohtaki, Kiyoshi; and Hara, Kazuo, 4,651,695, Cl. 123-438.000.
  - Ohtaki, Kiyoshi; and Hara, Kazuo, 4,651,699, Cl. 123-438.000.
  - Ohtaki, Kiyoshi; and Hara, Kazuo, 4,655,181, Cl. 123-440.000.
  - Ohtaki, Kiyoshi; and Hara, Kazuo, 4,671,238, Cl. 123-438.000.
- Hara, Kazuya, to Casio Computer Co., Ltd. Compact electronic equipment. 4,670,664, 6-2-87, Cl. 307-150.000.
- Hara, Kazuya, to Casio Computer Co., Ltd. IC card. 4,697,073, 9-29-87, Cl. 235-487.000.
- Hara, Kazuya, to Casio Computer Co., Ltd. Memory card. 4,714,980, 12-22-87, Cl. 361-395.000.
- Hara, Kazuya: *See—*
  - Endoh, Kenji; Narui, Fumio; Sugiyama, Kazuhiro; Hara, Kazuya; and Shimazaki, Tatsuo, 4,668,314, Cl. 156-64.000.
- Hara, Kenichi: *See—*
  - Kazama, Toyoki; Aizawa, Koichi; Yamaguchi, Kiyoto; Hara, Kenichi; and Iijima, Toshiyuki, 4,675,265, Cl. 430-67.000.
- Hara, Kenji; and Eguchi, Yasuteru, to KAO Corporation. Composition for cleansing and wiping skin. 4,657,691, 4-14-87, Cl. 252-91.000.
- Hara, Kenji; Takahashi, Hiromichi; Kamiya, Tetsuro; and Tsujii, Kaoru, to Kao Corporation. Medical composition for external application. 4,686,211, 8-11-87, Cl. 514-148.000.
- Hara, Kiyoaki: *See—*
  - Tanaka, Masaru; Hara, Kiyoaki; and Yokoyama, Issei, 4,662,748, Cl. 356-317.000.
- Hara, Kozo: *See—*
  - Hashimoto, Hitoshi; Shibata, Takuzo; Nagano, Teruo; Hara, Kozo; Kuwahara, Nobuhiro; and Yashiki, Ikuo, 4,659,583, Cl. 426-629.000.
- Hara, Kumiko: *See—*
  - Yamatsu, Isao; Inai, Yuichi; Abe, Shinya; Watanabe, Hideaki; Igarashi, Toshiji; Shiojiri, Hiroyuki; Tanabe, Yoshio; and Hara, Kumiko, 4,639,450, Cl. 514-238.000.
- Hara, Kunihiko: *See—*
  - Fukada, Tsuyoshi; Suzuki, Yasutoshi; Itoh, Hiroshi; Ohmi, Shinya; and Hara, Kunihiko, 4,669,827, Cl. 350-338.000.
  - Fukada, Tsuyoshi; Suzuki, Yasutoshi; Itoh, Hiroshi; Ohmi, Shinya; and Hara, Kunihiko, 4,671,615, Cl. 350-331.00R.
  - Fukazawa, Takeshi; Kuno, Hironari; Okabe, Naoto; and Hara, Kunihiko, 4,653,443, Cl. 123-145.00A.
  - Itoh, Hiroshi; Suzuki, Yasutoshi; Ohmi, Shinya; Fukada, Tsuyoshi; and Hara, Kunihiko, 4,669,825, Cl. 350-332.000.
  - Itoh, Hiroshi; Ohmi, Shinya; Suzuki, Yasutoshi; Fukada, Tsuyoshi; and Hara, Kunihiko, 4,669,826, Cl. 350-331.00R.
  - Itoh, Hiroshi; Ohmi, Shinya, Suzuki, Yasutoshi; Fukada, Tsuyoshi; and Hara, Kunihiko, 4,676,601, Cl. 350-331.00R.
  - Itoh, Hiroshi; Suzuki, Yasutoshi; Fukada, Tsuyoshi; Ohmi, Shinya; and Hara, Kunihiko, 4,687,956, Cl. 307-310.000.
  - Muramatsu, Hiromochi; Suzuki, Yasutoshi; Itoh, Hiroshi; Ohmi, Shinya; and Hara, Kunihiko, 4,671,617, Cl. 350-335.000.
  - Suzuki, Yasutoshi; Ohmi, Shinya; Fukada, Tsuyoshi; Itoh, Hiroshi; and Hara, Kunihiko, 4,655,549, Cl. 350-331.00R.
  - Suzuki, Yasutoshi; Itoh, Hiroshi; Ohmi, Shinya; and Hara, Kunihiko, 4,697,883, Cl. 350-331.00R.
- Hara, Kunio, to Nifco Inc. Wire bundling harness. 4,653,155, 3-31-87, Cl. 24-16.0PB.
- Hara, Kunio: *See—*
  - Shibuya, Kunihiro; and Hara, Kunio, 4,644,391, Cl. 358-75.000.
- Hara, Kunitaka; and Matsuo, Yoshihiro, to Honda. Radiator and oil cooling apparatus for motor vehicles. 4,673,032, 6-16-87, Cl. 165-44.000.
- Hara, Kunitaka, to Honda Giken Kogyo Kabushiki Kaisha. Side cover structure for motorcycles. 4,685,530, 8-11-87, Cl. 180-219.000.
- Hara, Makoto: *See—*
  - Kanno, Haruki; Tsuyoshi, Hidekazu; Nishinakagawa, Kou; Hara, Makoto; Mochida, Tetsuo; Hisaka, Tsugio; Miyaki, Munekazu; Kawarada, Minoru; and Kawarabayashi, Hideaki, 4,643,617, Cl. 405-222.000.
- Hara, Masaharu: *See—*
  - Dobashi, Toshio; Hara, Masaharu; and Fukutani, Kazunobu, 4,688,916, Cl. 354-288.000.
- Hara, Masanori: *See—*
  - Umemura, Hiroyuki; Matsuda, Kenji; Tezuda, Tomofumi; Isono, Kazuaki; Ishioka, Hidenori; Sugawara, Sakuo; and Hara, Masanori, 4,715,191, Cl. 62-208.000.
- Hara, Masaru, to Sony Corporation. Method of making a linearity standard magnetic tape. 4,638,388, 1-20-87, Cl. 360-18.000.

Hara, Masato; and Kaneko, Atsumi, to Asahi Optical Co., Ltd. Reference position-detecting device for photoelectric encoder. 4,678,910, 7-7-87, Cl. 250-237.00G.

Hara, Masato, to Asahi Kogaku Kogyo Kabushiki Kaisha. Encoder output error detecting circuit. 4,700,063, 10-13-87, Cl. 250-231.0SE.

Hara, Masato: *See—*
  Suzuki, Shinichi; Hara, Masato; Tsuda, Koji; Takasugi, Eiji; Kinba, Toshifumi; and Kaneko, Atsumi, 4,702,008, Cl. 33-1.00T.

Hara, Noboru; and Sugiyama, Syogo, to Toyoda Gosei Co., Ltd. Stirring device for liquid material. 4,660,988, 4-28-87, Cl. 366-137.000.

Hara, Nobuhiro: *See—*
  Hotta, Yoshiji; Kuroda, Kunishige; Kimura, Hiroshi; Hara, Nobuhiro; and Tada, Naofumi, 4,692,560, Cl. 174-15.0CA.

Hara, Osamu: *See—*
  Kimura, Kiyoshi; and Hara, Osamu, 4,713,496, Cl. 178-18.000.

Hara, Rikio: *See—*
  Ito, Bunsaku; Fukuda, Kimio; and Hara, Rikio, 4,690,856, Cl. 428-215.000.

Hara, Ryuichi: *See—*
  Toyoda, Kenichi; Sakakibara, Shinsuke; Mizuno, Tooru; and Hara, Ryuichi, 4,698,777, Cl. 364-513.000.

Hara, Ryuichiro: *See—*
  Shibanuma, Tadao; Nagano, Noriaki; Hara, Ryuichiro; Nakano, Kohji; Koda, Akio; Yamazaki, Atsuki; and Murakami, Yukiyasu, 4,690,921, Cl. 514-205.000.
  Shibanuma, Tadao; Nakano, Kohji; Nagano, Noriaki; Murakami, Yukiyasu; Hara, Ryuichiro; Koda, Akio; and Yamazaki, Atsuki, 4,699,980, Cl. 540-224.000.

Hara, Seiji: *See—*
  Awane, Misao; Hara, Seiji; and Kobayashi, Satoshi, 4,706,794, Cl. 194-217.000.

Hara, Seinosuke; Ofuji, Hiromichi; Miisyo, Kazuyuki; Matsumoto, Yasuo; and Kato, Manabu, to Nissan Motor Co., Ltd. Driving apparatus for intake and exhaust valves of internal combustion engine. 4,708,101, 11-24-87, Cl. 123-90.160.

Hara, Shinichi: *See—*
  Hanazono, Masanobu; Hara, Shinichi; Akiyama, Hirosi; Hayashi, Masaaki; Saitoo, Harunobu; and Kurisu, Takumi, 4,685,014, Cl. 360-126.000.

Hara, Susumu: *See—*
  Hirai, Hidefumi; Komiyama, Makoto; Hara, Susumu; and Wada, Keiichiro, 4,696,682, Cl. 55-68.000.

Hara, Tadao: *See—*
  Shirayanagi, Moriyasu; Shindo, Osamu; Aiura, Hirochika; and Hara, Tadao, 4,637,720, Cl. 356-125.000.

Hara, Tadayuki, to Mitsubishi Denki Kabushiki Kaisha. Electromagnetic solenoid device for oil pressure control. 4,634,096, 1-6-87, Cl. 251-129.150.

Hara, Tadayuki: *See—*
  Kozuka, Hajime; Hara, Tadayuki; and Yamamoto, Isao, 4,677,409, Cl. 335-258.000.
  Morishita, Mitsuharu; Hara, Tadayuki; Kohge, Shinichi; Watanabe, Tetsushi; and Ikari, Yasuki, 4,635,741, Cl. 180-79.100.
  Morishita, Mitsuharu; Hara, Tadayuki; Kohge, Shinichi; Watanabe, Tetsushi; and Ikari, Yasuki, 4,666,010, Cl. 180-79.100.

Hara, Takafumi: *See—*
  Yuki, Yoshio; and Hara, Takafumi, 4,658,273, Cl. 346-140.00R.

Hara, Takeshi: *See—*
  Masuho, Yasuhiko; Hara, Takeshi; and Noguchi, Teruhisa, 4,638,049, Cl. 530-388.000.

Hara, Tetsuya; Hakata, Toshiyuki; and Goshiki, Keigo, to Dic-Hercules Chemicals, Inc. Ketene dimer-acrylamide polymer aqueous dispersion. 4,654,386, 3-31-87, Cl. 524-107.000.

Hara, Tomihiro; Adaniya, Takeshi; Yamashita, Masaaki; and Enatsu, Akira, to Nippon Kokan Kabushiki Kaisha. Process for preparation of highly anticorrosive surface-treated steel plate. 4,659,394, 4-21-87, Cl. 148-6.200.

Hara, Toshiro: *See—*
  Nozawa, Hideyo; Hara, Toshiro; and Juen, Masahiro, 4,704,022, Cl. 354-219.000.

Hara, Toshitami; Sato, Yasushi; Takatori, Yasushi; and Shirato, Yoshiaki, to Canon Kabushiki Kaisha. Ink jet recording device. 4,707,705, 11-17-87, Cl. 346-75.000.

Hara, Toshitami: *See—*
  Yano, Yasuhiro; Haruta, Masahiro; and Hara, Toshitami, 4,675,693, Cl. 346-1.100.

Hara, Tsutomu, to Hamamatsu Photonics Kabushiki Kaisha. Spatial light modulator. 4,678,286, 7-7-87, Cl. 350-356.000.

Hara, Yasuaki: *See—*
  Kondow, Kiyohiro; Mihama, Takeshi; Hara, Yasuaki; Aoki, Hisashi; and Hasebe, Nobuyuki, 4,689,384, Cl. 528-15.000.

Hara, Yasuhiko; Karasaki, Koichi; Ujiie, Noriaki; and Sase, Akira, to Hitachi, Ltd. Pattern detecting apparatus. 4,692,690, 9-8-87, Cl. 324-73.0PC.

Hara, Yasuhiko; Saito, Keiya; Karasaki, Koichi; and Sase, Akira, to Hitachi, Ltd. Method and apparatus for testing pattern of a printed circuit board. 4,700,225, 10-13-87, Cl. 358-106.000.

Hara, Yasuhiko: *See—*
  Karasaki, Koichi; Kobayashi, Mamoru; and Hara, Yasuhiko, 4,672,209, Cl. 250-458.100.

Hara, Yoichi, to Nissan Motor Co., Ltd. Fuel pressure control system for internal combustion engine. 4,635,603, 1-13-87, Cl. 123-383.000.

Hara, Yoshiaki; and Wakabayashi, Masashi, to Yokohama Rubber Co., Ltd., The. Buckling fender. 4,673,314, 6-16-87, Cl. 405-215.000.

Hara, Yoshifusa: *See—*
  Kariya, Akinori; Nabekawa, Shukichi; Hara, Yoshifusa; and Ta
  chi, Junji, 4,694,095, Cl. 558-186.000.

Hara, Youichi: *See—*
  Yamamoto, Michihiro; Ozato, Yukinori; Tamura, Nobuh
  Miyagishi, Akira; and Hara, Youichi, 4,705,786, Cl. 514-252.0

Hara, Yukiaki: *See—*
  Taketomo, Eiji; and Hara, Yukiaki, 4,671,809, Cl. 55-158.000.

Hara, Yukihiko, to Mitsui Norin Co., Ltd. Process for the productio
a natural antioxidant obtained from tea leaves. 4,673,530, 6-16-87, C
252-398.000.

Hara, Zenichirou; and Iwatsuji, Ichirou, to Mitsubishi Denki Kabus
Kaisha. Luminance adjusting system for a flat matrix type catho
ray tube. 4,707,638, 11-17-87, Cl. 315-169.300.

Harada, Akihisa, to Nippon Jiryoku Senko Co., Ltd. Process for th
simultaneous treatment of dust, sludge and steel slag. 4,711,
12-8-87, Cl. 75-1.00R.

Harada, Akimitsu: *See—*
  Namekawa, Kouroku; and Harada, Akimitsu, 4,651,742, C
  128-663.000.
  Namekawa, Kouroku; and Harada, Akimitsu, 4,651,745, C
  128-663.000.

Harada, Akira: *See—*
  Tange, Kohsuke; Takahashi, Osamu; Furuya, Yuhki; and Hara
  Akira, 4,683,644, Cl. 437-7.000.

Harada, Hidekazu: *See—*
  Miyafuji, Motohisa; Nakashima, Yasuhiro; Katayama, Sa
  Matsui, Takashi; Harada, Hidekazu; and Yuki, Youji, 4,659,
  Cl. 420-473.000.

Harada, Hideki: *See—*
  Tsukuda, Yasuo; Hara, Hisao; Harada, Hideki; and Iizuka, Ya
  4,715,178, Cl. 60-272.000.

Harada, Hiroshi; Matsushita, Yoshihiro; Nakamura, Masuhisa; a
Yonetani, Yukio, to Shionogi & Co., Ltd. 2,3-dihydrobenzofura
sulfonamide derivatives useful as antihypertensive diuretic agen
4,659,709, 4-21-87, Cl. 514-229.000.

Harada, Hiroshi: *See—*
  Kaizaki, Kazuhiro; Kubota, Sadao; Harada, Hiroshi; and Matsu
  Shigeo, 4,636,863, Cl. 358-167.000.
  Matsuno, Yutaka; Hatanaka, Yasunori; Shimizu, Hirokazu; Ishi
  Masahiro; Harada, Hiroshi; Kawada, Michihiro; and Wa
  Yasukuni, 4,673,188, Cl. 277-212.0FB.
  Okamoto, Tatsuo; and Harada, Hiroshi, 4,665,608, Cl. 29-571.0
  Yamazaki, Michio; Yamagata, Toshihiro; and Harada, Hiro
  4,707,192, Cl. 148-3.000.

Harada, Hisashi: *See—*
  Uzaki, Nagato; Itoh, Shigeru; Kanayama, Ryoji; Harada, His
  and Kawamura, Yasutaro, 4,633,928, Cl. 164-19.000.

Harada, Ichiya: *See—*
  Nakadate, Takanori; Kiyohara, Kazuto; and Harada,
  4,699,744, Cl. 264-101.000.

Harada, Isao: *See—*
  Morita, Shuji; Sato, Katsujiro; Asaoka, Yoshio; Harada, Isao; a
  Hirano, Tomiyasu, 4,644,914, Cl. 123-90.550.

Harada, Jiro, to Harada Kogyo Kabushiki Kaisha. Multistage exten
rod antenna. 4,647,934, 3-3-87, Cl. 343-901.000.

Harada, Junzo, to Idemitsu Kosan Company Limited. Process fo
production of silane. 4,704,264, 11-3-87, Cl. 423-347.000.

Harada, Kaoru; Shimoyama, Akira; and Mizumoto, Hiroji, to Diam
Shamrock Chemicals Company. Method of manufacturing p
amino acid with microwaves. 4,696,981, 9-29-87, Cl. 525-328.2

Harada, Katsuhiro: *See—*
  Iwadate, Kazumi; and Harada, Katsuhiro, 4,699,870, C
  430-296.000.
  Matsuda, Tadahito; Harada, Katsuhiro; Moriya, Shigeru; and Is
  Tetsuyoshi, 4,634,645, Cl. 430-30.000.
  Saitou, Norio; Ozasa, Susumu; Okumura, Masahide; Oya
  Mitsuo; Komoda, Tsutomu; Harada, Katsuhiro; Fujinami, M
  pei; and Iwadate, Kazumi, 4,692,579, Cl. 250-492.200.

Harada, Katsumasa: *See—*
  Iwata, Fumio; Harada, Katsumasa; and Sugise, Ryoji, 4,665,172, C
  540-544.000.

Harada, Kazumasa: *See—*
  Shimizu, Shigehisa; Suzuki, Chiaki; Harada, Kazumasa; and Mas
  Tomohisa, 4,656,737, Cl. 29-806.000.

Harada, Kentaro; and Watanabe, Junji, to Kabushiki Kaisha Tosh
Image forming apparatus with color change area discrimina
function. 4,707,110, 11-17-87, Cl. 355-7.000.

Harada Kogyo Kabushiki Kaisha: *See—*
  Harada, Jiro, 4,647,934, Cl. 343-901.000.
  Shinkawa, Masaki, 4,660,049, Cl. 343-715.000.

Harada, Kosuke; Murata, Katsuaki; and Nakamizo, Takazi, to Nih
Electronics Industries Co., Ltd. Ferroresonant constant AC volta
regulator. 4,642,549, 2-10-87, Cl. 323-210.000.

Harada, Kunio: *See—*
  Kato, Yasuo; Harada, Kunio; Kubota, Shigeo; Watanabe, Yos
  and Murayama, Seiichi, 4,715,054, Cl. 378-122.000.

Harada, Kuniyoshi, to Aisin Seiki Kabushiki Kaisha. Spring co
brake. 4,651,854, 3-24-87, Cl. 192-8.00C.

Harada, Masaru, to Kabushiki Kaisha Kibun. Food extruding appara
4,685,877, 8-11-87, Cl. 425-190.000.

Harada, Masasuke; Tsukamoto, Kouji; and Etou, Tomohiro, to Nipp
Rubber Co., Ltd. Antistatic material comprising (a) quaternary a
monium salt (b) peg having a molecular weight in the ran
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Harada, Norikazu: *See—*

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Fujioka, Yoshihide; Harada, Shigeyuki; Ohba, Toshihiro; Kanatani, Yoshiharu; and Uede, Hisashi, 4,686,426, Cl. 315-169.300.

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Serizawa, Hajime; Ogihara, Keizo; Shimizu, Kiyoshi; and Harada, Susumu, 4,701,497, Cl. 525-292.000.

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Muramatsu, Toshihiko; Isomura, Shigenori; and Harada, Takashi, 4,706,196, Cl. 364-431.050.

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Yokoi, Masakatsu; and Harada, Tsutomu, 4,686,359, Cl. 250-201.000.

Harada, Tuneo; and Oyama, Kiyotaka, to Toyo Soda Manufacturing Co., Ltd. Process for producing DL-phenylalanine. 4,704,471, 11-3-87, Cl. 562-443.000.

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Fujiura, Kaiya; Hayakawa, Yoichi; Harada, Yoshiharu; and Fukumura, Kagenori, 4,699,249, Cl. 184-11.100.

Hayakawa, Yoichi; Kawai, Masao; Taga, Yutaka; Watanabe, Kazuaki; and Harada, Yoshiharu, 4,679,450, Cl. 74-752.00A.

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Harada, Yoshihiro: *See—*

Miyahara, Tsuneo; Harada, Yoshihiro; Futakami, Katsuyuki; Nishida, Yasukuni; and Konishi, Ryoko, 4,693,888, Cl. 424-49.000.

Harada, Yoshihito; Kiuchi, Masayoshi; Kobayashi, Ryuichi; and Kawamura, Masaharu, to Canon Kabushiki Kaisha. Analog-to-digital converter for camera. 4,702,585, 10-27-87, Cl. 354-410.000.

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Arakawa, Kazuhiko; Tokura, Go; Fujibayashi, Kazuo; Kiuchi, Masayoshi; and Harada, Yoshihito, 4,692,008, Cl. 354-217.000.

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Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, 4,679,925, Cl. 354-173.100.

Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Kiuchi, Masayoshi; and Amano, Kenichiro, 4,685,789, Cl. 354-173.110.

Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, 4,690,532, Cl. 354-173.110.

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Kiuchi, Masayoshi; Harada, Yoshihito; Kobayashi, Ryuichi; and Kawamura, Masaharu, 4,676,624, Cl. 354-410.000.

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Sakai, Shinji; Kawabata, Takashi; and Harada, Yoshihito, 4,639,108, Cl. 354-289.100.

Suzuki, Masayuki; Ohara, Tsunemasa; Tosaka, Yoichi; Kobayashi, Ryuichi; Harada, Yoshihito; and Kawamura, Masaharu, 4,659,201, Cl. 354-152.000.

Suzuki, Masayuki; Ohara, Tsunemasa; Tosaka, Yoichi; Kobayashi, Ryuichi; Harada, Yoshihito; and Kawamura, Masaharu, 4,673,272, Cl. 354-173.110.

Suzuki, Masayuki; Ohara, Tsunemasa; Tosaka, Yoichi; Kawamura, Masaharu; Harada, Yoshihito; and Kobayashi, Ryuichi, 4,699,488, Cl. 354-173.110.

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Harada, Yoshio, to TDK Corporation. Electronic component mounting system having a vacuum suction head with a magnetic sensor for locating an electronic component with a magnet mark. 4,675,993, 6-30-87, Cl. 29-740.000.

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Harada, Yuho; Maruyama, Tsutomu; Kumakura, Yoshiyuki; and Kuwayama, Shigeo, to Fuji Photo Optical Co., Ltd. Method of making flexible optical fiber bundle. 4,710,216, 12-1-87, Cl. 65-4.100.

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Harada, Yutaka, to Kabushiki Kaisha Toshiba. Group control apparatus for elevators. 4,709,788, 12-1-87, Cl. 187-124.000.

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Haraga, Koichi: *See*—

Sakura, Yasuhiro; Haraga, Koichi; Nimura, Hitoshi; and Ishikawa, Mamoru, 4,697,938, Cl. 400-120.000.

Haragashira, Motoji, to Kabushiki Kaisha Toshiba. Nuclear magnetic resonance transmitter and receiver system. 4,691,164, 9-1-87, Cl. 324-322.000.

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Haraguchi, Hiroshi: *See*—

Sakakibara, Koji; and Haraguchi, Hiroshi, 4,711,213, Cl. 123-425.000.

Sakakibara, Koji; Haraguchi, Hiroshi; and Yukumoto, Hideki, 4,711,214, Cl. 123-425.000.

Haraguchi, Manabu: *See*—

Shimizu, Hiroyasu; Inamura, Atsuo; and Haraguchi, Manabu, 4,664,289, Cl. 221-2.000.

Haraguchi, Masato, to Toray Industries, Inc. Method and apparatus for preparing hemodialysis fluids of accurately portioned components. 4,698,160, 10-6-87, Cl. 210-647.000.

Haraguchi, Shosuke, to Canon Kabushiki Kaisha. Camera battery for a camera having a chamber for a built in battery. 4,712 12-15-87, Cl. 354-288.000.

Harai, Yoshihiro: *See*—

Hosoya, Nobukazu; Murakami, Yoshihiro; Higashino, Takeshi; an Harai, Yoshihiro, 4,652,778, Cl. 307-603.000.

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Shimase, Akira; Yamaguchi, Hiroshi; Haraichi, Satoshi; and M chi, Tateoki, 4,683,378, Cl. 250-492.200.

Harakawa, Takeshi: *See*—

Nakayashiki, Susumu; Kashio, Jiro; and Harakawa, Take 4,672,607, Cl. 370-88.000.

Haramaki, Takashi; Shiota, Katsuhiko; Kokura, Satoshi; Funam Takao; and Tomita, Akira, to Hitachi, Ltd. Method of brazing aluminum heat exchanger. 4,645,119, 2-24-87, Cl. 228-183.000.

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Harandi, Mohsen N.; Owen, Hartley; and Smyth, Sean C., to Mobil Corporation. Conversion of crude methanol to gasoline with extra tion. 4,709,113, 11-24-87, Cl. 585-640.000.

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Shimomura, Hiroshi; Iizuka, Kazuo; Harano, Makoto; and Hama Akifumi, 4,714,383, Cl. 407-42.000.

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Sakakibara, Kenji; Harano, Tetsuo; Bandai, Yasuhito; and Oh Eiichi, 4,684,999, Cl. 358-294.000.

Harara, Mitsuhiko: *See*—

Kobayashi, Kazuyoshi; Takizawa, Shozo; Tanaka, Tadao; Hara Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Kum gai, Naotake; and Tatemoto, Minoru, 4,673,193, Cl. 280-707.0

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Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasut Suzumura, Masanaga; Takizawa, Shozo; Kumagai, Naotake; Tatemoto, Minoru, 4,669,750, Cl. 280-707.000.

Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasuta Suzumura, Masanaga; Tatemoto, Minoru; and Kumagai, N take, 4,697,237, Cl. 364-424.000.

Wada, Shunichi; Shimomura, Setsuhiro; Kumagai, Naotak Takizawa, Shozo; Maruyama, Mitsunori; Tatemoto, Mino Takada, Hiroyuki; and Harara, Mitsuhiko, 4,648,622, 280-707.000.

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Harasaki, Hayatsugu, to Mazda Motor Corporation. Front body struction for motor vehicle. 4,669,776, 6-2-87, Cl. 296-194.000.

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Harashima, Eiichi, to Kabushiki Kaisha Murakoshi Seiko. Televis turntable for providing improved stability. 4,697,778, 10-6-87, 248-349.000.

Harashima, Ikuo; and Morimura, Isao, to Sanden Corporation. Bev age brewing apparatus. 4,667,585, 5-26-87, Cl. 99-289.00R.

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Harata, Mitsuru: *See—*
  Hongo, Suzuaki; Niwa, Minoru; Hashiba, Takahiro; Harata, Mitsuru; Hirata, Ichiro; Ito, Isamu; and Sonobe, Akihiko, 4,709,944, Cl. 280-777.000.
  Hyodo, Yoichi; and Harata, Mitsuru, 4,648,164, Cl. 29-159.00B.
  Uchida, Sadao; and Harata, Mitsuru, 4,657,121, Cl. 188-376.000.

Harbaugh, John T. Liquid dispensing and receiving syringe. 4,655,751, 4-7-87, Cl. 604-198.000.

Harbeck, Martin E.: *See—*
  Duncan, John L.; Jones, John E.; Harbeck, Martin E.; and Burns, Stephen R., 4,660,246, Cl. 15-329.000.

Harbeke, Gerold. Fire-retardant fluid coupling assembly and method. 4,642,956, 2-17-87, Cl. 52-232.000.

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Harbeke, Gerold J. Concrete-form conduit holder. 4,671,483, 6-9-87, Cl. 249-91.000.

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  Bayless, Gary L.; and Amaya, Armando, 4,662,096, Cl. 40-607.000.

Harbers, Hermanus Gerhardus J.: *See—*
  Brilman, Albert; and Harbers, Hermanus Gerhardus J., 4,663,631, Cl. 342-422.000.

Harbin, Henry C.: *See—*
  Sumerau, William R.; and Harbin, Henry C., 4,670,937, Cl. 15-329.000.

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  Derkits, Gustav E., Jr.; and Harbison, James P., 4,637,129, Cl. 29-578.000.

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  Haigh, Richard N., 4,705,664, Cl. 420-18.000.

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Harbor Branch Oceanographic Institution Inc.: *See—*
  Higa, Tatsuo; and Snader, Kenneth M., 4,708,962, Cl. 514-475.000.
  Kennedy, Gregory C., 4,680,513, Cl. 318-285.000.
  Tietze, Richard C., 4,714,288, Cl. 294-82.330.
  Tusting, Robert F., 4,676,097, Cl. 73-187.000.
  Tusting, Robert F., 4,707,094, Cl. 354-64.000.

Harbor-UCLA Medical Center Research and Education Institute, Inc.: *See—*
  Huszczuk, Andrew R., 4,647,036, Cl. 272-73.000.

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  Moore, John R.; and Maybaum, Stephen, 4,664,948, Cl. 427-134.000.

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  Wildblood, Robin; and Harcourt, Michael D., 4,668,042, Cl. 339-176.00M.

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Harde, Bo, to AB Volvo. Fuel meter for vehicles. 4,699,003, 10-13-87, Cl. 73-313.000.

Hardee, Kim C.; and Griffus, Mike J., to Inmos Corporation. Multistage decoding. 4,660,178, 4-21-87, Cl. 365-189.000.

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Harden, Kendall L.: *See—*
  Bedenk, William T.; and Harden, Kendall L., 4,638,907, Cl. 206-0.500.

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Harder, Hans E.; and Kramer, Hermann, to Howmedica International, Inc. Bone nail and instruments for the treatment of fractures. 4,712,541, 12-15-87, Cl. 128-92.0YY.

Harder, Hans E.: *See—*
  Richter, Karl M.; and Harder, Hans E., 4,698,579, Cl. 320-14.000.

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  Yeager, Robert E.; Harder, Isaac E.; and Stone, Earl L., III, 4,659,624, Cl. 428-408.000.

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Hardesty, Dennis L.; Hanna, Timothy D.; Wendt, Frank J.; and White, Kendall D., Jr., to United States Gypsum Company. Method for the production of high density fiberboard. 4,634,498, 1-6-87, Cl. 162-13.000.

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  Parker, Wesley A.; Hardesty, Donald E.; and Stanley, Jack E., 4,692,235, Cl. 208-113.000.
  Parker, Wesley A.; Dewitz, Thomas S.; Hinds, George P., Jr.; Gwyn, John E.; Bilgic, A. Haluk; and Hardesty, Donald E., 4,692,311, Cl. 422-144.000.

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Hardey, Donald H.; and Austin, Franklin D., to Castech Enterprises, Inc. Injector for injecting molten material into a die. 4,690,198, 9-1-87, Cl. 164-316.000.

Hardglass Industry Co., Ltd.: *See—*
  Fujiwara, Kenichi, 4,712,331, Cl. 49-488.000.

Hardie, Laurie S.; and Coleman, Leonard J. Vibratory sauna. 4,712,538, 12-15-87, Cl. 128-24.100.

Hardiman, Christopher J.: *See—*
  Archer, Ronald D.; Hardiman, Christopher J.; Grybos, Ryszard; and Chien, James C. W., 4,693,957, Cl. 430-269.000.

Hardin, Clyde M., Jr.: *See—*
  Gray, Frank; and Hardin, Clyde M., Jr., 4,637,282, Cl. 76-4.000.

Hardin, Evelyn L. Soundwriting—A phonetic script with keyboard. 4,696,492, 9-29-87, Cl. 283-45.000.

Hardin, Michael L. Air baffle for an overland vehicle. 4,685,715, 8-11-87, Cl. 296-1.00S.

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Hardin, Roy T., Jr., to Westinghouse Electric Corp. Remotely operable fuel transfer system for nuclear reactor. 4,649,016, 3-10-87, Cl. 376-261.000.

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Hardin, Roy T., Jr.: *See—*
  Marshall, James R.; and Hardin, Roy T., Jr., 4,678,620, Cl. 376-203.000.
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Harding, Audrey E. Antiseptic glove. 4,689,935, 9-1-87, Cl. 53-431.000.

Harding, David: *See*—

Whittenburg, Stephen L.; Morris, David S.; Edmonds, Albert V.; McGaw, John; McCormick, David D.; Bartlett, William L.; Cruz, Edward; and Harding, David, 4,657,193, Cl. 241-282.100.

Harding, Dukecal J., to Magna International Inc. Seat assembly. 4,707,030, 11-17-87, Cl. 297-341.000.

Harding, George W., to Poly-John Enterprises Corp. Vent opening for portable building wall. 4,637,299, 1-20-87, Cl. 98-29.000.

Harding, John D., and Dolbear, Keith D., to Turner & Newall PLC. Friction materials and their manufacture. 4,663,368, 5-5-87, Cl. 523-155.000.

Harding, Norman T., Jr. Rodent repellent paint and bars. 4,654,080, 3-31-87, Cl. 106-15.050.

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Harding, Paul J.; and Koch, K. Peter. Heat exchanger tube cleaning system. 4,667,732, 5-26-87, Cl. 165-95.000.

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Harding, Wilfrid B.; and Amin, Mohammad B., to Independent Broadcasting Authority. Error protection of linearly coded digital signals. 4,661,954, 4-28-87, Cl. 371-37.000.

Hardinge Brothers, Inc.: *See*—

Smith, Roger R.; and Rao, K. Kamalakar, 4,656,708, Cl. 29-40.000.

Hardison, John C. Current propelled waste water treatment mechanism. 4,687,576, 8-18-87, Cl. 210-200.000.

Hardison, Robert; and Crain, N. Robert. Apparatus and method for treatment of soil contaminated with hydrocarbons. 4,667,609, 5-26-87, Cl. 110-236.000.

Hardman, Harley F.; Mazanec, Terry J.; and Frye, John G., Jr., to Standard Oil Company, The. Catalyst composition for the preparation of alcohols. 4,657,887, 4-14-87, Cl. 502-303.000.

Hardman, Harley F.; and Beach, Ronald I., to Standard Oil Company, The. Catalyst for the preparation of alcohols from synthesis gas. 4,668,656, 5-26-87, Cl. 502-318.000.

Hardman, Harley F.: *See*—

Mazanec, Terry J.; Frye, John G., Jr.; and Hardman, Harley F., 4,705,532, Cl. 44-53.000.

Hardman, Raymond H. Electronic control apparatus. 4,651,777, 3-24-87, Cl. 137-487.500.

Hardman, Ronald P. Universal toilet tank shut-off assembly. 4,633,534, 1-6-87, Cl. 4-412.000.

Hards, John E., to Brunette Machine Works, Ltd. Sweep-data-responsive, high-speed, continuous-log-travel bucking apparatus. 4,640,160, 2-3-87, Cl. 83-71.000.

Hardstone, John D.: *See*—

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Campbell, Simon F.; and Hardstone, John D., 4,686,228, Cl. 514-307.000.

Hardt, Heinz, to Viennatone Gesellschaft m.b.H. "Ear" hearing aid. 4,657,106, 4-14-87, Cl. 381-68.400.

Hardt, Herbert T. Collapsible and portable megaphone. 4,703,829, 11-3-87, Cl. 181-178.000.

Hardt, John G.; and Shea, Dennis W., to Dana Corporation. Non-differential drive axle. 4,643,284, 2-17-87, Cl. 192-50.000.

Hardt, Peter, to Lonza Ltd. Process for the production of 7-ethyl indole. 4,703,126, 10-27-87, Cl. 548-508.000.

Hardt, Walter; Werner, Franz; and Bonke, Norbert, to Nixdorf Computer AG. Viewing screen with a swiveling screen housing. 4,657,316, 4-14-87, Cl. 312-7.200.

Hardt, William K. Cornerstone mold arrangement for the outer walls of prefabricated buildings. 4,659,055, 4-21-87, Cl. 249-19.000.

Hardtle, Sylvia: *See*—

Schmidberger, Rainer; and Hardtle, Sylvia, 4,698,096, Cl. 75-248.000.

Hardware & Industrial Tool Co., Inc.: *See*—

Voshikian, Mike, 4,650,074, Cl. 206-477.000.

Hardwick, Gary L. Accessory mounting arrangement for boat seats. 4,645,167, 2-24-87, Cl. 248-520.000.

Hardwick, Martha K.; Pike, Kelly A.; Evans, George D., II; Edwards, Ronald; and Norman, Jacob J., to American Hospital Supply Corporation. Apparatus for controlling flow and pressure measurement. 4,648,868, 3-10-87, Cl. 604-32.000.

Hardwick, Nathan E., III: *See*—

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Hardwicke Chemical Company: *See*—

Hardwicke, James E., III, 4,691,033, Cl. 549-453.000.

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Brooks, Raymond E., Jr., 4,713,916, Cl. 52-39.000.

Hardy, Alan, Agger, Reginald T.; and Crabtree, Andrew, to USM Corporation. Heat curable compositions. 4,647,646, 3-3-87, Cl. 528-45.000.

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Hardy, Derrick, to Bercorit & Herweg Limited. Valve. 4,679,76 7-14-87, Cl. 251-159.000.

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Hardy, Frederick E.: *See*—

Burns, Michael E.; and Hardy, Frederick E., 4,634,551, C 252-102.000.

Wevers, Jean; Barrat, Christian R.; and Hardy, Frederick E 4,714,565, Cl. 252-174.190.

Hardy, Gilbert F. Spring loop key holder. 4,633,691, 1-6-87, Cl. 7 456.00B.

Hardy, Ian J.: *See*—

Dean, Alan J.; and Hardy, Ian J., 4,706,756, Cl. 166-344.000.

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Dean, Anthony M.; DeGregoria, Anthony J.; Hardy, James E.; and Lyon, Richard K., 4,682,468, Cl. 60-39.020.

Hardy, James H.; Owen, Daniel V.; and Willis, Candler A., to Genera Electric Company. Coupling of carrier signal from power line 4,675,579, 6-23-87, Cl. 315-318.000.

Hardy, Joseph: *See*—

Bartholet, Chauncey L.; and Hardy, Joseph, 4,646,296, C 370-124.000.

Hardy, Kenneth J.; and Whitesides, Michael G. Perfusion slit chambe for filter-bound sample analyses. 4,681,853, 7-21-87, Cl. 435-288.00

Hardy, Patrice: *See*—

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Hardy, Richard; Neumann, Frank D.; and Ruzicka, Dennis E., to Boeing Company, The. Aircraft autonomous reconfigurable internal weapons bay for loading, carrying and launching different weapons therefrom. 4,697,764, 10-6-87, Cl. 244-137.400.

Hardy, Robert M.: *See*—

Wheeler, James E.; Hardy, Robert M.; Dunki-Jacobs, Robert J. and Premerlani, William J., 4,694,416, Cl. 364-736.000.

Hardy, Roger L., to Children's Hospital Medical Center. Method and apparatus for transmyocardial revascularization using a laser 4,658,817, 4-21-87, Cl. 128-303.100.

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Hardy, Steven; and Joyce, Robert H., to Teknowledge, Inc. Basic expert system tool. 4,648,044, 3-3-87, Cl. 364-513.000.

Hardy, T. Norman: *See*—

Griffith, Robert K.; Hardy, T. Norman; McKnight, Edley V.; and Vavra, Vladimir K., 4,677,400, Cl. 333-159.000.

Hardy, Thomas A.; and Walsh, Edward N., to Stauffer Chemical Company. Phosphate-containing and phosphonate-containing phosphate esters. 4,697,030, 9-29-87, Cl. 558-163.000.

Hare, Claude H. M.: *See*—

Silverthorne, Daniel F.; Hare, Claude H. M.; and Hall, Dale 4,673,019, Cl. 160-268.00R.

Hare, David L.: *See*—

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Hare, John P.: *See*—

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Harelstad, Roberta E.; and Stevens, John, to Minnesota Mining and Manufacturing Company. Second harmonic generation with N,N substituted barbituric acids. 4,714,838, 12-22-87, Cl. 307-427.000.

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Harendza-Harinxma, Alfred J. Ointment and process for treating skin lesions. 4,672,074, 6-9-87, Cl. 514-420.000.

Hareng, Michel: *See*—

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Le Pesant, Jean-Pierre; Hareng, Michel; Mourey, Bruno; and Perbet, Jean-Noel, 4,701,021, Cl. 350-267.000.

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Harenza, Edward R.: *See*—

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Harer, Helmut: *See*—

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Hares, George B.; and Morse, David L., to Corning Glass Works Method of producing a composite body. 4,683,168, 7-28-87, C 428-335.000.

Hares, George B.: *See*—

Borrelli, Nicholas F.; Hares, George B.; Smith, Dennis W.; an Wedding, Brent M., 4,710,430, Cl. 428-432.000.

Hareyama, Yukiya: *See*—

Morimoto, Takuo; Nishiuchi, Kihachiro; Wada, Kenichi; Suzu Masayoshi; and Hareyama, Yukiya, 4,655,967, Cl. 252-520.00

Harf, Fredric H., to United States of America, National Aeronauti and Space Administration. Heat treatment for superalloy. 4,676,84 6-30-87, Cl. 148-162.000.

Harford, Nigel; and De Wilde, Michel, to SmithKline-RIT. DN sequences, recombinant DNA molecules and processes for produci the A and B subunits of cholera toxin and preparations containing so-obtained subunit or subunits. 4,666,837, 5-19-87, Cl. 435-68.000.

Hargarten, Werner; and Kautz, Rudolf, to Dynamit Nobel Aktiengesellschaft. Process for production of an expanded polyolefin panel. 4,696,709, 9-29-87, Cl. 156-79.000.

Hargett, Wyatt P., Jr.: *See—*

Collins, Michael J.; and Hargett, Wyatt P., Jr., 4,681,996, Cl. 219-10.55M.

Hargis, Billy D.: *See—*

Cooper, Donald K., 4,654,918, Cl. 15-98.000.

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Hargis, L. Calvin. Four sided flash card. 4,662,652, 5-5-87, Cl. 283-74.000.

Hargitay, Bartholomew: *See—*

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Middleton, Francisco A.; Hargrave, Franklin; and Cox, John E., 4,665,516, Cl. 370-76.000.

Smith, Mark G.; French, Karen J.; Zeller, David A., Jr.; Hargrave, Franklin; and Middleton, Francisco A., 4,654,869, Cl. 37+-107.000.

Hargrave, Karl D.: *See—*

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Devlin, John P.; and Hargrave, Karl D., 4,692,448, Cl. 514-252.000.

Hargrave, Russell W., III: *See—*

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Hargraves, John: *See—*

Kind, Stuart S.; Sanger, David G.; Twibell, John D.; and Hargraves, John, 4,640,035, Cl. 40-625.000.

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Hargreaves, Richard E.: *See—*

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Hargreaves, Rodney B.; McLoughlin, Bernard J.; and Mills, Stuart D., to Imperial Chemical Industries PLC. As-triazinones. 4,716,164, 12-29-87, Cl. 514-242.000.

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Harhoff, Karl; and Melis, Egon, to Gewerkschaft Eisenhutte Westfalia GmbH. Material and transfer loading apparatus. 4,714,154, 12-22-87, Cl. 198-514.000.

Harig, Manfred, to Greifzug Hebezeugbau GmbH. Rope hoist apparatus. 4,706,940, 11-17-87, Cl. 254-333.000.

Harigae, Makoto: *See—*

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Harigaya, Isao; and Kozuki, Susumu, to Canon Kabushiki Kaisha. Information signal recording and/or reproducing apparatus. 4,689,699, 8-25-87, Cl. 360-74.400.

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Takayama, Nobutoshi; Harigaya, Isao; and Nagasawa, Kenichi, 4,675,753, Cl. 360-27.000.

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Hirata, Yasushi; Kondo, Hitoshi; Kono, Masanao; and Sanada, Yasuyoshi, 4,665,119, Cl. 524-399.000.

Harima, Hirokazu: *See—*

Yamamoto, Makoto; Toyama, Tsuyoshi; Harima, Hirokazu; and Ando, Ryo, 4,651,186, Cl. 357-23.800.

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Harima Refractory Co., Ltd.: *See—*

Gotoh, Michihiro; Fujimoto, Tsuyoshi; Komatsu, Nobiru; and Otsuki, Yuzo, 4,646,950, Cl. 222-591.000.

Hagiwara, Takeshi; Matsuo, Masataka; Tamehiro, Tanezoh; Tamehiro, Taizo; and Murakami, Kakuichi, 4,711,916, Cl. 523-223.000.

Tsuchinari, Akihiro; Shimobayashi, Osamu; and Hattori, Hisahiro, 4,676,412, Cl. 222-591.000.

Harima, Yoshihiko: *See—*

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Funahashi, Yoshiko; Kamino, Yoshikazu; Matsumura, Yasuharu; and Harimaya, Senichi, 4,643,978, Cl. 436-78.000.

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Haring, Ulrich: *See—*

Kristen, Ulrich; Haring, Ulrich; Fischer, Francis; and Cron, Alain, 4,713,186, Cl. 252-30.000.

Haringa, Jan: *See—*

Steenge, Wiecher D. E.; van der Werf, Ringnerus P.; and Haringa, Jan, 4,664,889, Cl. 422-147.000.

Haringer, Luis, to Macmoter S.p.A. Compact excavator. 4,693,662, 9-15-87, Cl. 414-695.000.

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Savonlahti, Jukka; Ekholm, Pertti; and Harjunmaa, Hannu, 4,696,195, Cl. 73-864.840.

Harken, Olaf T. Mainsail reefing and furling device and method. 4,679,520, 7-14-87, Cl. 114-104.000.

Harkey, Charles E.: *See—*

Stonesifer, Gerald M.; and Harkey, Charles E., 4,706,853, Cl. 222-391.000.

Harkiewicz, Gary A.; and Wagener, Paul W., to Westinghouse Electric Corp. Direction sensing system for an AC power supply and AC motor drive with such direction sensing system. 4,710,703, 12-1-87, Cl. 324-86.000.

Harkins, Carl G., to Hewlett-Packard Company. Method and apparatus for prevention of atmospheric corrosion of electronic equipment. 4,684,510, 8-4-87, Cl. 423-210.000.

Harkins, Joseph C., Jr. Surface covering product and process therefor. 4,698,258, 10-6-87, Cl. 428-285.000.

Harkness, Jack A., to Dynamic Corporation. Resistor grid assembly with rib turbulence generators. 4,651,125, 3-17-87, Cl. 338-295.000.

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Harlacker, David S., to Du Pont de Nemours, E. I., and Company. Centrifuge door. 4,666,424, 5-19-87, Cl. 494-60.000.

Harlamert, W. Benjamin; and Stackhouse, Donald C., to Hartzell Propeller Inc. Aircraft propeller with improved spinner assembly. 4,699,568, 10-13-87, Cl. 416-95.000.

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Basseen, Sanjiv K.; and Harlan, Richard A., 4,638,852, Cl. 165-47.000.

Harland, Geoffrey, to STC plc. Digital telecommunication system. 4,706,242, 11-10-87, Cl. 370-60.000.

Harle, Anton. Aspirator for withdrawal of secretions from wounds. 4,642,093, 2-10-87, Cl. 604-54.000.

Harlegard, Jan, to SIC AG. Process for improving the automatic emptying and cleaning of hygienic vessels under optimum infeed of rinsing water at minimal water usage and arrangement for implementing the process. 4,670,061, 6-2-87, Cl. 134-18.000.

Harley, A. Dale; Duquette, Lawrence G.; Khoury, Issam A.; and Kohatsu, Iwao, to Dow Chemical Company, The. Dispersion process for ceramic green body. 4,710,227, 12-1-87, Cl. 106-193.00R.

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Harlick, Allan J.; and Harlick, Susan W. Article for restraining and supporting humans, primarily children, in a chair. 4,676,554, 6-30-87, Cl. 297-467.000.

Harlick, Neville G., to Ainsworth Nominees Pty. Ltd. Poker machine communication system. 4,636,951, 1-13-87, Cl. 364-412.000.

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Harlos, Hartmut, to U. S. Philips Corporation. Circuit arrangement for the control of a picture tube. 4,698,557, 10-6-87, Cl. 315-383.000.

Harlow, Albert L., Jr.; and Felske, Arthur M., to EZ Mail Corporation. Slidable tray insert for mailboxes. 4,714,192, 12-22-87, Cl. 232-17.000.

Harlow, Raymond P., to Centri-Spray Corporation. Conveyor for rollable articles. 4,658,954, 4-21-87, Cl. 198-774.000.

Harm, Alson R.: *See—*

Goodman, William H., Jr.; Harm, Alson R.; Kock, Ronald W.; and Reiboldt, Howard N., 4,664,248, Cl. 198-394.000.

Harm, William H.; and Peluso, John J., to Endotronics, Inc. Culturing apparatus. 4,650,766, 3-17-87, Cl. 435-284.000.

Harman, Douglas G.; and Odor, Elbert P., to Westinghouse Electric Corp. Device for shot-peening inside surface of U-bend region of heat exchanger tubing. 4,635,456, 1-13-87, Cl. 72-53.000.

Harman, Douglas G.: *See—*

Sinha, Susanta; Brown, Philip S.; Harman, Douglas G.; Keller, Harold T.; Olechovsky, David F.; and Cheng, Wenche W., 4,649,492, Cl. 364-472.000.

Harman, John N., III; and Neti, R. Murty, to Beckman Industrial Corporation. Reference electrode device. 4,650,562, 3-17-87, Cl. 204-420.000.

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Harman, R. Keith: *See—*

Rich, Brian G.; Patchell, John W.; and Harman, R. Keith, 4,710,753, Cl. 340-561.000.

Harman, S. Mitchell, to Engineering Development Associates, Ltd. Multiple implant injector. 4,661,103, 4-28-87, Cl. 604-62.000.

Harman, Theodore C., to Massachusetts Institute of Technology. Process for making mercury cadmium telluride. 4,642,142, 2-10-87, Cl. 148-171.000.

Harmathy, Tibor Z., to Canadian Patents and Development Limited. Extensible flame deflector. 4,635,729, 1-13-87, Cl. 169-48.000.

Harmer, Alan L., to Stanley Electric Co., Ltd. Immersion refractometer with angle prism. 4,641,965, 2-10-87, Cl. 356-135.000.

Harmer, Alan L., to Stanley Electric Co., Ltd. Refractometer for measuring the refractive index of a liquid. 4,682,889, 7-28-87, Cl. 356-135.000.

Harmon, Bobby R., to Halliburton Company. Use of certain materials as thinners in oil-based drilling fluids. 4,659,486, 4-21-87, Cl. 252-8.500.

Harmon, Carol A. Walker and carrier therefor. 4,676,416, 6-30-87, Cl. 224-42.46R.

Harmon, Charles H.; Ward, Thomas F.; and Zimmermann, Robert W., to Rayovac Corporation. Easy-open, individual unit dispensing package. 4,696,402, 9-29-87, Cl. 206-602.000.

Harmon, Eldred R., to Square D Company. Corona shield and transmission line provided with corona shields. 4,705,918, 11-10-87, Cl. 174-73.00R.

Harmon, John P., to Hewlett Packard Company. Near-linear spring connect structure for flexible interconnect circuits. 4,706,097, 11-10-87, Cl. 346-139.00C.

Harmon, Julie P.: *See—*

Gruenbaum, William T.; Harmon, Julie P.; and Roberts, Luther C., 4,711,832, Cl. 430-106.000.

Harmon, Kermit S., Jr. Temperature control system with programmed dead-band ramp and drift features. 4,655,279, 4-7-87, Cl. 165-2.000.

Harmon, Raymond E., to Rexnord Inc. Clutching adjustable keeper mechanism. 4,691,952, 9-8-87, Cl. 292-341.180.

Harmon, Raymond E.: *See—*

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Harmon, Richard A.; and Wahl, Harry A., to Conoco Inc. Methods for obtaining well-to-well flow communication. 4,662,440, 5-5-87, Cl. 166-245.000.

Harmonic Drive Systems Inc.: *See—*

Honda, Toshio; Ohhashi, Toshiro; and Ohtsubo, Yasuo, 4,715,2 Cl. 74-640.000.

Harms, Daryl E.: *See—*

Johnson, Terry W.; Harms, Daryl E.; and Curl, Ricky L. 4,695,880, Cl. 358-85.000.

Harms, Eugene H., to Henry Filters, Inc. Central coolant system wi intermittent waste flushing. 4,655,940, 4-7-87, Cl. 210-805.000.

Harms, Eugene H., to Henry Filters, Inc. Method for filtering contam nated liquids. 4,715,964, 12-29-87, Cl. 210-783.000.

Harms, Harold B.; and Lytle, Peter B., to General Electric Compan Electronically commutated motor. 4,668,898, 5-26-87, C 318-254.000.

Harms, Harold B.: *See—*

Forbes, Franklin L.; and Harms, Harold B., 4,712,035, C 310-269.000.

Harms, John R.; and Anderson, Ronald L., to J. I. Case Compan Truck mounted backhoe. 4,648,780, 3-10-87, Cl. 414-686.000.

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Harms, John R.; and Anderson, Ronald L., to J. I. Case Compan Grade leveling device. 4,706,762, 11-17-87, Cl. 172-684.500.

Harms, John R.: *See—*

Staley, Charles L.; Harms, John R.; and Anderson, Ronald L. 4,657,307, Cl. 299-36.000.

Harms, Thomas C., Jr.: *See—*

Holt, David R.; Harms, Thomas C., Jr.; and Shepherd, Robert B 4,651,998, Cl. 273-347.000.

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Harms, Wolfgang; Kuth, Robert; and Wunderlich, Klaus, to Baye Aktiengesellschaft. Reactive azo dyestuffs, free from anionic grou and containing a basic group and a halogenotriazinyl radical an useful for dyeing cellulose/polyester. 4,676,803, 6-30-87, C 8-532.000.

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Wunderlich, Klaus; Harms, Wolfgang; Herd, Karl J.; and Jage Horst, 4,665,179, Cl. 544-76.000.

Harmuth, Henning F., to Geophysical Survey Systems, Inc. Larg relative bandwidth radar. 4,651,152, 3-17-87, Cl. 342-13.000.

Harn, James E. Sun protection canopy. 4,635,667, 1-13-87, C 135-90.000.

Harnagel, Gary L.: *See—*

Scifres, Donald R.; Cross, Peter; and Harnagel, Gary L., 4,716,5 Cl. 372-36.000.

Harnden, John D., Jr.; and Kornrumpf, William P., to General Elect Company. Piezoelectric relay switching circuit. 4,658,154, 4-14- Cl. 307-132.00R.

Harnden, John D., Jr.; and Kornrumpf, William P., to General Elect Company. Method for prepolarizing and centering a piezoelect ceramic switching device. 4,669,160, 6-2-87, Cl. 29-25.350.

Harnden, John D., Jr.; and Kornrumpf, William P., to General Elect Company. Piezoelectric ceramic switching devices and systems a method of making the same. 4,670,682, 6-2-87, Cl. 310-332.000.

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Harner, Kermit I.; Schneider, Roy W.; and Harris, Mark L., to Un Technologies Corporation. Propeller synchrophaser. 4,653, 3-31-87, Cl. 416-34.000.

Harner, Kermit I.; Niessen, Frank R.; and Sherman, Robert, to U Technologies Corporation. Blade pitch angle control for large turbines. 4,656,362, 4-7-87, Cl. 290-44.000.

Harner, Kermit I.: *See—*

D[illegible] Glidden S.; Kos, Joseph M.; Harner, Kermit I.; DiV [illegible]ne D.; and Healy, Henry S., 4,695,736, Cl. 290-44

Harne[illegible] Rich[illegible]d S.: *See—*

Ch[illegible] Ray W.; McLachlan, Richard D.; and Harner, Ri S.[illegible]2,218, Cl. 250-574.000.

Harness, James R.: *See—*

Olson, Douglas R.; Harness, James R.; and Waterston, Joh 4,639,419, Cl. 435-5.000.

Harness, John, to Hilton Gun Company Limited. Firearm for ammunition of different caliber. 4,648,192, 3-10-87, Cl. 42-77.0

Harness, Ronald L.: *See—*

Walters, Paul W.; Raiche, H. Anthony; Harness, Ronald L Quodala, Genaro M., 4,698,212, Cl. 422-144.000.

Harnik, Marcel; and Kashman, Yoel, to Ramot University Au for Applied Research & Industrial Development Ltd. 19-hyd dosterone and its preparation. 4,659,704, 4-21-87, Cl. 514-172.

- Harnisch, Horst; and Wolfbeis, Otto S., to Bayer Aktiengesellschaft. Chromogenic and fluorogenic esters for photometric or fluorimetric determination of phosphatases or sulphatases. 4,659,657, 4-21-87, Cl. 435-21.000.
- Harnisch, Horst; and Siegel, Edgar, deceased (by Gabriele, E. Helena-Maria Siegel, heiress), to Bayer Aktiengesellschaft. Process for quenching fluorescence, and new cationic or amphoteric aromatic nitro compounds. 4,695,405, 9-22-87, Cl. 252-600.000.
- Harnischfeger Corporation: *See*—
  - Gattu, Narahari; and Bailey, Bryan K., 4,688,690, Cl. 212-266.000.
  - Rathi, Ram N.; and Vaerk, Lembit, 4,653,655, Cl. 212-188.000.
- Harnois, Carey D., to Cooper Industries, Inc. Fusible switch and fuse puller assembly. 4,696,528, 9-29-87, Cl. 439-160.000.
- Haro, Rudy: *See*—
  - Rabon, Joe D.; and Haro, Rudy, 4,695,737, Cl. 307-31.000.
- Harold A. Williamson: *See*—
  - Holt, David R., 4,695,142, Cl. 354-76.000.
- Harold Beck & Sons, Inc.: *See*—
  - Kihm, Joe A., 4,690,168, Cl. 137-554.000.
- Harold, Franz: *See*—
  - Messner, Erich; and Harold, Franz, 4,658,754, Cl. 118-303.000.
- Harold Lietz Enterprise, Inc.: *See*—
  - Lenkman, Thomas E., 4,671,713, Cl. 410-7.000.
- Harold Lorber: *See*—
  - Greenberg, Joel S., 4,659,082, Cl. 273-149.00R.
- Harold R. Lauterbach: *See*—
  - Woods, James A., 4,694,679, Cl. 73-1.00R.
- Harold Simpson, Inc.: *See*—
  - Simpson, Harold G.; and Neyer, Leo E., 4,682,454, Cl. 52-200.000.
  - Simpson, Harold S., 4,700,522, Cl. 52-528.000.
- Haroutel, Jean-Claude; and Galceran, Christian, to Societe Anonyme dite: SMH ALCATEL. Device for inserting bundles into envelopes. 4,633,644, 1-6-87, Cl. 53-258.000.
- Harp, Terance D.: *See*—
  - Roe, Douglas A.; and Harp, Terance D., 4,648,476, Cl. 180-297.000.
- Harpaintner, Alfons, to Roederstein Spezialfabriken fur Bauelemente der Elektronik; and Kondensatoren der Starkstromtechnik GmbH. Method of adjusting the values of resistors. 4,665,377, 5-12-87, Cl. 338-195.000.
- Harpell, Gary A.; Palley, Igor; Kavesh, Sheldon; and Prevorsek, Dusan C., to Allied Corporation. Ballistic-resistant fabric article. 4,650,710, 3-17-87, Cl. 428-263.000.
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- Harper, Chester H., to Allen Fruit Co., Inc. Apparatus and method for installing lids on containers. 4,683,706, 8-4-87, Cl. 53-485.000.
- Harper, Donald J.: *See*—
  - DeVaney, David B.; Harper, Donald J.; and Short, Thomas D., 4,698,839, Cl. 379-60.000.
- Harper, George S., to Airpax Corporation. Auxiliary switch actuator mechanism. 4,707,674, 11-17-87, Cl. 335-13.000.
- Harper, James G.; and Bailey, Louis G., to Veeco Integrated Automation, Inc. Apparatus with intelligent bins indicating the presence and identity of stored coded articles. 4,636,634, 1-13-87, Cl. 250-223.00R.
- Harper, James G.; Bailey, Louis G.; McJohnson, Robert B.; Rajagopal, Ganesh; and Walker, Don R., to Veeco Integrated Automation Inc. Vehicle to fixed station infrared communications link. 4,680,811, 7-14-87, Cl. 455-617.000.
- Harper, James T.: *See*—
  - Bonasso, Jack L.; Harper, James T.; and Johnson, Ewing A., 4,704,135, Cl. 48-73.000.
- Harper, Jay. Heat exchanger with radial baffles. 4,642,149, 2-10-87, Cl. 165-160.000.
- Harper, Jeffrey D.: *See*—
  - Crowe, Stephen O.; Harper, Jeffrey D.; and Wilson, Woody B., 4,676,429, Cl. 229-109.000.
- Harper, Jerry: *See*—
  - Harrison, Archie J., Jr.; Harper, Jerry; and Katzmann, Fred L., 4,659,910, Cl. 219-497.000.
- Harper, Jim L.: *See*—
  - Pailen, William; and Harper, Jim L., 4,652,990, Cl. 364-200.000.
- Harper, Raymond G., to Braydon Corporation. Direct current power supply using current amplitude modulation. 4,672,300, 6-9-87, Cl. 323-222.000.
- Harper, Robert J., Jr., to United States of America, Agriculture. Process for crossdyeing cellulosic fabrics. 4,711,640, 12-8-87, Cl. 8-481.000.
- Harper, Robert W., to Rockwell International Corporation. Multiplexed synchro driver. 4,667,138, 5-19-87, Cl. 318-654.000.
- Harper, Stephen; and Hiscock, David G., to Cape Building Products Limited. Boards and panels. 4,637,860, 1-20-87, Cl. 162-117.000.
- Harper, Stephen M.: *See*—
  - Helms, Roger L.; and Harper, Stephen M., 4,689,183, Cl. 261-97.000.
- Harper, Terry. Sail raft - convertible inflatable life raft. 4,692,124, 9-8-87, Cl. 441-40.000.
- Harper, William H.: *See*—
  - Hayward, Milton L.; and Harper, William H., 4,676,712, Cl. 414-411.000.
- Harper-Wyman Company: *See*—
  - Cors, Craig M.; and Kadlubowski, Joseph C., 4,710,742, Cl. 337-323.000.
- Harr, George B.; and Smith, Ronald W. Removable arch support. 4,686,994, 8-18-87, Cl. 128-586.000.
- Harr, Leroy P.: *See*—
  - Furfari, Frank; Harr, Leroy P.; and Dillon, Joseph J., 4,665,469, Cl. 362-66.000.
- Harra, David J.: *See*—
  - Freeman, Kenneth F.; Garrett, Charles B.; Harra, David J.; and Lei, Lawrence C., 4,714,536, Cl. 204-298.000.
- Harre, Michael; Kruger, Hans-Rudolf; Arndt, Friedrich; and Rusch, Reinhart, to Schering Aktiengesellschaft. 7-(aryloxy)-2-naphthoxyalkanecarboxylic acid derivatives, processes for the preparation of these compounds, as well as agents having herbicidal activity containing these compounds. 4,709,077, 11-24-87, Cl. 560-056.000.
- Harrell, Bob G., to News Vend 1, Inc. Single article vending machine. 4,651,896, 3-24-87, Cl. 221-229.000.
- Harrell, David P., to American Standard Inc. Propeller pitch controlling arrangement having a fuel economizing feature. 4,639,192, 1-27-87, Cl. 416-27.000.
- Harrell, Gary R.: *See*—
  - Gillespie, David A.; Harrell, Gary R.; and Typrowicz, Wladyslaw, 4,676,277, Cl. 139-1.00C.
- Harrell, Gary W.: *See*—
  - Martinez, Egmont U.; Martinez, Jesus G.; and Harrell, Gary W., 4,651,468, Cl. 47-80.000.
- Harrell, Jack B., Jr.: *See*—
  - Hausler, Rudolph H.; Savage, Allen L.; and Harrell, Jack B., Jr., 4,667,150, Cl. 324-65.0CR.
- Harrell, Kirby R.: *See*—
  - Kahil, John E.; Jaynes, Mark S.; and Harrell, Kirby R., 4,715,442, Cl. 166-250.000.
- Harrell, Troy: *See*—
  - McCutcheon, Samuel; Lum, Jeffrey; Solek, Roman; Harrell, Troy; and Leman, Robert, 4,710,893, Cl. 364-900.000.
- Harrick, Nicolas J. Accessory for infrared emission spectroscopy. 4,716,293, 12-29-87, Cl. 250-340.000.
- Harries, John. Rotary positive displacement machine. 4,702,206, 10-27-87, Cl. 123-246.000.
- Harries, Kerry J.: *See*—
  - Foresman, Ralph E.; and Harries, Kerry J., 4,651,646, Cl. 102-208.000.
- Harriett, Todd D., to American Colloid Company. Self-healing bentonite sheet material composite article. 4,656,062, 4-7-87, Cl. 427-397.800.
- Harriett, Todd D., to American Colloid Company. Uninhibited bentonite composition. 4,668,724, 5-26-87, Cl. 524-108.000.
- Harriett, Todd D., to American Colloid Company. Flexible grout composition and method. 4,696,698, 9-29-87, Cl. 106-74.000.
- Harriett, Todd D., to American Colloid Company. Flexible grout composition and method. 4,696,699, 9-29-87, Cl. 106-74.000.
- Harrigal, Ronald E.; and Chew, James P., to American Standard Inc. Mounting bracket for railway vehicle couplers. 4,665,858, 5-19-87, Cl. 116-30.000.
- Harrigan, Dale: *See*—
  - Giaever, Ivar; and Harrigan, Dale, 4,672,024, Cl. 430-396.000.
- Harrigan, Donald R. Card dispenser guard apparatus. 4,711,371, 12-8-87, Cl. 221-310.000.
- Harrigan, Michael E.; Durbin, John A.; and Schroll, Ross E., to Xerox Corporation. Display device with increased view angle. 4,701,027, 10-20-87, Cl. 350-334.000.
- Harrigan, Michael E.: *See*—
  - Lama, William L.; and Harrigan, Michael E., 4,696,545, Cl. 350-167.000.
- Harriman, Charles E.; and Nii, Donald S., to Graco Inc. Pump shovel bulk unloader. 4,679,989, 7-14-87, Cl. 417-238.000.
- Harriman, Ronald W. Saw carriage stabilizer. 4,715,255, 12-29-87, Cl. 83-471.200.
- Harringer, Robert V.; Rada, Robert O.; and Vesely, Edward J., to American Telephone and Telegraph Company, AT&T Technologies, Inc. Method and apparatus for presenting an article to a work station. 4,681,208, 7-21-87, Cl. 198-341.000.
- Harrington Arthritis Research Center: *See*—
  - Bloebaum, Roy D., 4,714,473, Cl. 623-20.000.
  - Koeneman, James B., 4,655,778, Cl. 623-21.000.
- Harrington, David C.: *See*—
  - Costa, Lorenzo F.; Harrington, David C.; and Miller, Raymond S., 4,692,266, Cl. 252-301.170.
- Harrington, Delmer C.: *See*—
  - Rosenbaum, Glen E.; and Harrington, Delmer C., 4,675,958, Cl. 29-1.320.
- Harrington, Earl J., to Overhead Conveyor Company. Free rotation sprocket, drag chain conveyor system. 4,641,583, 2-10-87, Cl. 104-172.100.
- Harrington, Horrall. Clamp assembly for inflatable membrane concrete form. 4,642,856, 2-17-87, Cl. 24-531.000.
- Harrington, John H.; and Safai, Saed, to Perkin-Elmer Corporation, The. Flame spray material. 4,645,716, 2-24-87, Cl. 428-472.000.
- Harrington, John H.: *See*—
  - Rangaswamy, Subramaniam; and Harrington, John H., 4,692,305, Cl. 420-436.000.
- Harrington, John J., to United States of America, Air Force. Missile decoy radar cross section enhancer. 4,700,190, 10-13-87, Cl. 342-2.000.
- Harrington, John P., to Amoco Corporation. Method and apparatus for connecting a tubular element to an underwater wellhead. 4,635,728, 1-13-87, Cl. 166-341.000.
- Harrington, John P., to Amoco Corporation. Wellhead supported subsea templates and methods. 4,706,757, 11-17-87, Cl. 166-349.000.
- Harrington, Patrick W., to Florin Limited. Profile gauge. 4,715,124, 12-29-87, Cl. 33-175.000.

Harrington, Peter J.: *See—*

Taylor, Edward C.; Beardsley, George P.; Harrington, Peter J.; and Fletcher, Stephen R., 4,684,653, Cl. 514-258.000.

Harrington, Richard H.; and Barnes, James C., to Measuretek, Inc. Device for quick insertion of foot in shoe. 4,667,861, 5-26-87, Cl. 223-113.000.

Harrington, Richard H.; and Krapf, Charles W., to Measuretek, Inc. Calibration of weight scale utilizing a capacitative load cell. 4,712,627, 12-15-87, Cl. 177-50.000.

Harrington, Richard L., to Levi Strauss & Co. Apparatus for feeding fabric parts to sew a felled seam. 4,653,414, 3-31-87, Cl. 112-142.000.

Harrington, Thomas A.: *See—*

Hagy, Howard K., and Harrington, Thomas A., 4,676,460, Cl. 244-76.00R.

Harris, Alva F.: *See—*

Lavengood, Richard E.; Padwa, Allen R.; and Harris, Alva F., 4,713,415, Cl. 525-66.000.

Harris, Bob. Bowlers' hand-drying bag. 4,682,422, 7-28-87, Cl. 34-9.000.

Harris, Charles E.; and Tolley, Robert K., to Boeing Company, The. Composite fiber reinforced molded structure for dimple control. 4,636,422, 1-13-87, Cl. 428-174.000.

Harris, Charles F., Jr.; and Coleman, James C., to Ford Motor Company. Modular window assembly clip. 4,712,341, 12-15-87, Cl. 52-208.000.

Harris, Charles M. Clip for use with gasoline pump dispensing handle. 4,683,923, 8-4-87, Cl. 141-392.000.

Harris, Clark E.; and Covington, Roger G., to Eastman Kodak Company. Disk cassette pressure spring mechanism. 4,654,742, 3-31-87, Cl. 360-133.000.

Harris, Clark E.; Covington, Roger G.; and Foeller, David E., to Eastman Kodak Company. Cassette recording or non-recording indicating mechanism. 4,660,105, 4-21-87, Cl. 360-60.000.

Harris, Clifford V. Ball pitching machine with selective adjustment between drive and pressure wheels. 4,655,190, 4-7-87, Cl. 124-78.000.

Harris, Constance M.: *See—*

Harris, Thomas M.; and Harris, Constance M., 4,670,258, Cl. 424-115.000.

Harris Corporation: *See—*

Adams, William C., Jr.; and Patisaul, Charles R., 4,684,955, Cl. 342-351.000.

Akcasu, Osman E., 4,644,383, Cl. 357-50.000.

Andren, Carl F.; and Olaker, David A., 4,707,839, Cl. 375-1.000.

Bacrania, Kanti; and Cooper, Frank R., 4,665,327, Cl. 307-475.000.

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Baer, Scott D.; and Glenn, Thomas P., 4,684,055, Cl. 228-180.100.

Bajor, George, 4,670,970, Cl. 29-584.000.

Barton, James C., 4,700,146, Cl. 331-7.000.

Beasom, James D., 4,694,313, Cl. 357-23.400.

Beasom, James D., 4,713,681, Cl. 357-52.000.

Beckwith, Paul B.; Bascle, Kent P.; and Pearce, Jeffrey B., 4,660,157, Cl. 364-522.000.

Beckwith, Paul B.; Bistarkey, Donald S.; Pohedra, Joseph J.; and Trimble, Donald E., 4,702,698, Cl. 434-2.000.

Beckwith, Paul B., Jr.; and Bistarkey, Donald S., 4,682,160, Cl. 340-729.000.

Bigelow, Mark G., 4,657,629, Cl. 156-643.000.

Bigelow, Mark G.; and Follis, Stephen J., 4,669,884, Cl. 356-401.000.

Black, Jimmy C.; and Roberts, Bruce E., 4,702,967, Cl. 428-620.000.

Blankenship, Timothy L.; and Nolan, Joseph G., III, 4,698,589, Cl. 324-158.00R.

Boan, Bobby J.; and Croswell, William F., 4,700,195, Cl. 343-786.000.

Bouvier, Ray A.; and Hesch, Leonard T., Jr., 4,668,032, Cl. 339-17.0CF.

Brannigan, Michael J.; and Rutledge, David L., 4,639,896, Cl. 365-200.000.

Campione, Ben, 4,701,644, Cl. 307-530.000.

Cosgrove, William J., 4,672,431, Cl. 358-37.000.

Cotreau, Gerald M., 4,636,743, Cl. 330-295.000.

Cox, Eugene R., 4,691,222, Cl. 357-50.000.

Curtin, Leonard E., 4,645,877, Cl. 379-183.000.

Doyle, Brent R., 4,682,057, Cl. 307-459.000.

Durston, Thomas W., 4,691,336, Cl. 379-21.000.

Durston, Thomas W.; Fleitz, George D.; Coffelt, Steven R.; Eckman, James D.; Wong, Wayne K.; and Chavannes, Theodore E., 4,707,848, Cl. 379-1.000.

Elsenpeter, William R., 4,682,345, Cl. 379-1.000.

Eshbaugh, Kevin S., 4,675,548, Cl. 307-300.000.

Faith, Richard W.; and Durston, Thomas W., 4,682,346, Cl. 379-22.000.

Finken, Kenneth R., 4,675,685, Cl. 343-708.000.

Fisher, Barbara J.; and Harvey, Ian E., 4,644,191, Cl. 307-465.000.

Fisher, Barbara J., 4,644,192, Cl. 307-465.000.

Garcia, Carlos M., 4,682,059, Cl. 307-496.000.

Gimpelson, George E.; and George, Elias W., 4,652,812, Cl. 324-65.00R.

Gimpelson, George E.; Rivoli, Anthony L.; Gasner, John T.; and George, Elias W., 4,666,737, Cl. 427-89.000.

Gimpelson, George E.; Holbrook, Cheryl L.; and Hause, Frederick N., 4,705,596, Cl. 156-643.000.

Gimpelson, George E.; Holbrook, Cheryl L.; and Rivoli, Anthony L., 4,705,597, Cl. 156-643.000.

Glenn, Raymond R.; Powshok, Andrew T.; Padgett, Robert S.; Uriarte, Pedro; Cain, Joseph B.; and Thaker, Gautam H., 4,707,832, Cl. 370-124.000.

Gregson, Donald L.; and McGuigan, John J., 4,696,090, Cl. 29-566.400.

Guler, Michael G.; Patel, Sharadchandra D.; Conn, James K.; and Foster, Marcus L., 4,688,325, Cl. 29-600.000.

Hambley, Allan R., 4,715,047, Cl. 375-84.000.

Hankins, Kevin T.; Michael, Mark W.; Rosier, Brian K.; and Moser, Jay D., 4,635,345, Cl. 29-577.00C.

Hankins, Kevin T.; Michael, Mark W.; Moser, Jay D.; and Rosier, Brian K., 4,701,780, Cl. 357-51.000.

Hartman, William F.; and Boyd, Robert W., 4,669,084, Cl. 371-43.000.

Harvey, Ian E.; Williams, David G.; Fisher, Barbara J.; and Johnson, Timothy J., 4,686,384, Cl. 307-202.100.

Heckaman, Douglas E.; Higman, Roger H.; and Frisco, Jeffrey A., 4,641,140, Cl. 342-371.000.

Heckaman, Douglas E.; Higman, Roger H.; Frisco, Jeffrey A.; and Bajgrowicz, Edward J., 4,695,810, Cl. 333-1.000.

Johnson, Timothy J., 4,658,253, Cl. 340-825.830.

Jost, Steve R.; and Prentice, John S., 4,675,798, Cl. 363-54.000.

Julich, Paul M.; and Pearce, Jeffrey B., 4,634,110, Cl. 371-11.000.

King, Ken R.; and Hernandez, Celimo P., 4,636,744, Cl. 330-295.000.

Kwoka, Mark A., 4,703,566, Cl. 34-78.000.

Laude, David P., 4,639,684, Cl. 330-259.000.

MacGinitie, Gordon; and Eames, Thomas R., 4,688,212, C 370-85.000.

Mackey, Peter J.; Hakoopian, Hakoop; and Ramputi, Michael A. 4,667,302, Cl. 364-718.000.

Mader, James M., 4,701,860, Cl. 364-490.000.

Matlock, Dyer A.; Lichtel, Richard L., Jr.; and Pearce, Lawrence G., 4,702,000, Cl. 437-63.000.

McRae, Daniel D.; and Cain, Joseph B., III, 4,639,937, C 375-40.000.

Monet, Paul E.; and Dufresne, Yves, 4,674,111, Cl. 379-58.000.

Nicolay, Hugh C.; and Lucas, William G., 4,670,769, C 357-50.000.

O'Mara, William E., Jr., 4,708,747, Cl. 437-19.000.

Pelchat, Guy; and Crabtree, Luther L., 4,710,723, Cl. 329-192.000.

Pelchat, Guy M.; and Boyd, Robert W., 4,653,053, Cl. 371-43.000.

Pierce, Ben A.; Curtin, Leonard E.; Chan, Aaron; and Coffelt, Steven R., 4,670,898, Cl. 379-22.000.

Piotrowski, Leo R., 4,665,425, Cl. 357-49.000.

Popek, Marc H.; and Springer, Kenneth D., 4,675,872, C 372-10.000.

Raby, Joseph S., 4,650,696, Cl. 427-89.000.

Roberts, Bruce E.; Black, Jimmy C.; and Matlock, Dyer A. 4,713,260, Cl. 437-238.000.

Roberts, Bruce E.; Black, Jimmy C.; and Matlock, Dyer A. 4,716,071, Cl. 428-209.000.

Roberts, Richard D.; and Walker, William D., 4,637,064, C 455-67.000.

Rolfe, Robert M.; and Falkenstrom, Lee J., 4,703,484, C 371-25.000.

Rosback, Thomas J., 4,641,361, Cl. 381-103.000.

Roskind, James A., 4,713,786, Cl. 364-715.000.

Roskos, Henry L., 4,652,895, Cl. 357-13.000.

Rympalski, William P.; Herstein, James S.; and Ritenour, Roger L. 4,639,720, Cl. 340-712.000.

Salvage, Seward T.; Belcher, Donald K.; and Rosier, Charles D. 4,700,153, Cl. 333-81.00R.

Schrantz, Gregory A., 4,683,485, Cl. 357-22.000.

Seiler, Norman C.; and Walker, Stephen S., 4,703,505, C 381-51.000.

Smith, Donald E.; and Roberts, Richard D., 4,635,280, C 375-120.000.

Stratton, Boyd L., 4,707,740, Cl. 358-153.000.

Stratton, Boyd L., 4,707,741, Cl. 358-171.000.

Swanson, Hilmer I., 4,680,559, Cl. 333-100.000.

Talmor, Shlomo S., 4,680,535, Cl. 323-312.000.

Vu, Thu V., 4,709,345, Cl. 364-746.000.

Williams, David G., 4,670,748, Cl. 340-825.840.

Wood, Grady M., 4,675,552, Cl. 307-454.000.

Young, Lock R., 4,675,633, Cl. 333-257.000.

Harris, Dale C.: *See—*

Davis, Robert C.; Gibson, John W.; Skinner, Daniel S., Jr.; Dearth, Timothy E.; and Harris, Dale C., 4,649,042, Cl. 424-438.000.

Harris, David H.: *See—*

Paciorek, Kazimiera J. L.; Kratzer, Reinhold H.; Harris, David H. and Krone-Schmidt, Wilfried, 4,707,556, Cl. 556-403.000.

Steuer, Robert R.; and Harris, David H., 4,711,248, Cl. 128-748.000

Harris, David J.; and Vinn, Charles L., to Raytheon Company. Log network for D/A conversion. 4,701,641, 10-20-87, Cl. 307-445.000

Harris, David J.: *See—*

Vinn, Charles L.; and Harris, David J., 4,646,114, Cl. 357-13.000

Harris, David P.: *See—*

Kuck, Jay L.; Simpkins, Terry J.; and Harris, David P., 4,653,12 Cl. 5-430.000.

Harris, David R.: *See—*

Mudge, Dennis; Coskie, Joseph; Jacobs, Edward H.; and Harri David R., 4,643,410, Cl. 269-64.000.

Harris, Donald L., to Cordis Corporation. Implantable lead construction. 4,711,027, 12-8-87, Cl. 29-869.000.

Harris, Donald L., to Cordis Leads, Inc. A pacer including a multipl connector assembly with removable wedge and method of use 4,712,557, 12-15-87, Cl. 128-419.00P.

Harris, Donald L., to Telectronics N.V. Capped pacer neck containing a connector assembly. 4,715,380, 12-29-87, Cl. 128-419.00P.

Harris, Duane H.: *See—*
Mawby, Harold S.; and Harris, Duane H., 4,635,444, Cl. 62-125.000.
Mawby, Harold S.; and Harris, Duane H., 4,680,943, Cl. 62-300.000.

Harris, Elbert E.; Patchett, Arthur A.; and Thorsett, Eugene D., to Merck & Co., Inc. Substituted caprolactam derivatives as antihypertensives. 4,680,392, 7-14-87, Cl. 540-527.000.

Harris, Elbert E.: *See—*
Wyvratt, Matthew J., Jr.; Thorsett, Eugene D.; Tristram, Edward W.; Patchett, Arthur A.; and Harris, Elbert E., 4,661,479, Cl. 514-214.000.

Harris, Eugene G.; and Fayter, Richard G., Jr., to National Distillers and Chemical Corporation. 4-carbalkoxy-2-ethyl-2,3-dihydrofurans. 4,636,571, 1-13-87, Cl. 549-484.000.

Harris, Eugene G.; and Mueninghoff, Jane C., to National Distillers and Chemical Corporation. Balsamic fragrance composition and process for preparation. 4,661,285, 4-28-87, Cl. 252-522.00R.

Harris, Eugene G.; and Fayter, Richard G., Jr., to National Distillers and Chemical Corporation. Alkyl substituted-2,3-dihydrofuran fragrance compositions. 4,681,703, 7-21-87, Cl. 252-522.00R.

Harris, Eugene G., to National Distillers and Chemical Corporation. 4-alkylphenyl-2-alkoxyethyl ethers and fragrance compositions containing same. 4,716,146, 12-29-87, Cl. 512-21.000.

Harris, Everett A.; and Jugler, John, to Branson Ultrasonics Corporation. Resonator exhibiting uniform motional output. 4,651,043, 3-17-87, Cl. 310-323.000.

Harris, Francis T., to Ametek, Inc. Fabrics made of hollow monofilaments. 4,656,073, 4-7-87, Cl. 428-85.000.

Harris, Frank R.; and Cartee, Marsha J., to Singer Company, The. Hose connection for vacuum cleaner attachments. 4,669,755, 6-2-87, Cl. 285-7.000.

Harris, Frank R.; and Laing, Gordon E., to Singer Company, The. Vacuum cleaner tool storage. 4,715,083, 12-29-87, Cl. 15-323.000.

Harris, Frank W.; and Hulett, Frederick M., to Valleylab, Inc. Electrosurgical generator. 4,658,819, 4-21-87, Cl. 128-303.130.

Harris, Frederick H.: *See—*
Minarik, Ronald W.; Harris, Frederick H.; and Gipprich, John W., 4,654,608, Cl. 332-44.000.

Harris, G. Bryn: *See—*
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Harris, Garry L. Vehicle safety harness for pets. 4,715,618, 12-29-87, Cl. 280-801.000.

Harris, Gary L., to Baker Oil Tools, Inc. Valve with rotary valve head. 4,641,682, 2-10-87, Cl. 137-329.040.

Harris, Geoffrey L.: *See—*
Kimmel, Edward R.; Shaffer, Mary E.; Pinkowski, Thomas R.; and Harris, Geoffrey L., 4,664,899, Cl. 423-440.000.

Harris, Geoffrey W., to National Research Development Corporation. Eye protectors. 4,654,899, 4-7-87, Cl. 2-436.000.

Harris, Geoffrey W., to National Research Development Corporation. Eye protectors. 4,670,914, 6-9-87, Cl. 2-436.000.

Harris, Gerald. Bipod mounting device and muzzle brake. 4,641,451, 2-10-87, Cl. 42-85.000.

Harris, Gerald A.; and Schumacher, Thomas W., to Chrysler Motors Corporation. Remote adjusting means for a vehicle headlamp. 4,709,306, 11-24-87, Cl. 362-68.000.

Harris, Gerald R.; and DeReggi, Aime S., to United States of America, Health and Human Services. Transducer hydrophone with filled reservoir. 4,653,036, 3-24-87, Cl. 367-170.000.

Harris Graphics Corporation: *See—*
Brovman, Yakov Z., 4,655,135, Cl. 101-426.000.
Brovman, Yakoy Z., 4,656,941, Cl. 101-426.000.
Convey, Frank H., Jr., 4,691,502, Cl. 53-529.000.
Filewich, Paul T., 4,666,139, Cl. 270-54.000.
Graves, Gene E., 4,638,957, Cl. 242-58.600.
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Herman, John L.; Dessert, Robert A.; and Punater, Dinesh G., 4,705,199, Cl. 226-95.000.
Kubert, Vince T.; and Richards, John S., 4,709,635, Cl. 101-426.000.
McKrell, Richard L.; Gelinas, W. Robert; and Brovman, Yakov Z., 4,643,090, Cl. 101-218.000.
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O'Dea, Kevin J.; and McCooey, David J., 4,655,133, Cl. 101-363.000.
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Winiasz, Michael E., 4,681,213, Cl. 198-803.900.

Harris, Harold S., to United Technologies Corporation. One piece band seal. 4,688,378, 8-25-87, Cl. 60-39.320.

Harris-Hub Company, Inc.: *See—*
Nowell, Richard A., 4,646,371, Cl. 5-200.00R.

Harris, Hubert; and Smith, Durward A. Method for thermally peeling produce continuousy at high temperatures and low pressures. 4,671,965, 6-9-87, Cl. 426-482.000.

Harris, Ian R.; and Shepherd, Ewan W., to Ferranti plc. Microwave power divider. 4,644,302, 2-17-87, Cl. 333-125.000.

Harris, Ivor R., to National Research Development Corporation. Biased power feed device having means to reduce bias during adjustment. 4,674,379, 6-23-87, Cl. 83-419.000.

Harris, J. Milton: *See—*
Van Alstine, James M.; Harris, J. Milton; Shafer, Steve; Snyder, Robert S.; and Herren, Blair, 4,690,749, Cl. 204-299.00R.

Harris, James E.; and Robeson, Lloyd M., to Amoco Corporation. Blends of a biphenyl containing poly(aryl ether sulfone) and a poly(aryl ether ketone). 4,713,426, 12-15-87, Cl. 525-471.000.

Harris, James E.; Berger, Abe; Chopdekar, Vilas M.; Matzner, Markus; and Spanswick, James, to Amoco Corporation. Amide and/or imide containing polymers and monomers for the preparation thereof. 4,713,438, 12-15-87, Cl. 528-337.000.

Harris, James E.: *See—*
Kawakami, James H.; Harris, James E.; Maresca, Louis M.; Robeson, Lloyd M.; and Cotter, Robert J., 4,705,822, Cl. 524-425.000.
Robeson, Lloyd M.; Harris, James E.; Maresca, Louis M.; and Kawakami, James H., 4,665,122, Cl. 524-504.000.
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Harris, James J.; Hostetler, Donald E.; and Achorn, G. Stanley, to National Distillers and Chemical Corporation. Catalyst systems for polymerizations at high temperatures. 4,681,924, 7-21-87, Cl. 526-125.000.

Harris, James R.; and Harris, Leland H. Grain deflector for combines. 4,677,991, 7-7-87, Cl. 130-27.0AE.

Harris, James W.; and Sink, Ronald A., to ITT Corporation. Image intensifier tube having reduced veiling glare. 4,661,079, 4-28-87, Cl. 445-22.000.

Harris, Jeffery J.; and McNeish, Allister, to Isomet Corporation. Method and apparatus for acousto-optic character generation. 4,645,309, 2-24-87, Cl. 350-358.000.

Harris, Jeremy M.: *See—*
Renner, G. Frederick; Thatcher, Richard K.; Atterbury, William G.; Harris, Jeremy M.; Hartman, Nile F.; and McCown, Robert B., 4,641,027, Cl. 250-237.00G.

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Harris, Jimmy W.: *See—*
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Harris, John; Cooke, Nelson; and Olsen, Kristine, to Beckman Instruments, Inc. Disposable column cartridge. 4,636,316, 1-13-87, Cl. 210-656.000.

Harris, John L.; and Benyon, John F. Apparatus for hydraulic damping. 4,711,435, 12-8-87, Cl. 267-221.000.

Harris, Jonathan H.: *See—*
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Harris, Kenneth; and Erickson, Gary L., to Cannon Muskegon Corporation. Single crystal alloy technology. 4,643,782, 2-17-87, Cl. 148-404.000.

Harris, Kim A., to IMD Corporation. Pipe scraping device. 4,706,748, 11-17-87, Cl. 166-173.000.

Harris, Larry W., to Washtronics, Inc. Rotary spray device. 4,651,925, 3-24-87, Cl. 239-239.000.

Harris, Leland H.: *See—*
Harris, James R.; and Harris, Leland H., 4,677,991, Cl. 130-27.0AE.

Harris, Mark; and Copeland, Duane, to Clayton Durand Mfg. Co., Inc. Automatic bottle sorting system. 4,651,879, 3-24-87, Cl. 209-523.000.

Harris, Mark A., to E-Systems, Inc. High power tunable filter. 4,692,724, 9-8-87, Cl. 333-202.000.

Harris, Mark L.: *See—*
Harner, Kermit L.; Schneider, Roy W.; and Harris, Mark L., 4,653,981, Cl. 416-34.000.
Schneider, Roy W.; and Harris, Mark L., 4,669,058, Cl. 364-148.000.

Harris, Meade C., Jr.; Miller, David W.; and Arciszewski, Henry E., to Nabisco Brands, Inc. Sweet goods dough forming processes. 4,687,673, 8-18-87, Cl. 426-549.000.

Harris, Michael J.: *See—*
Laycock, Arthur; Harris, Michael J.; and Broxholme, Mark A., 4,636,249, Cl. 75-53.000.

Harris, Michael R., to Phillips Petroleum Company. Apparatus and method for cutting pipe into small pieces. 4,671,150, 6-9-87, Cl. 83-49.000.

Harris, Monty E.; and Sukup, Richard A., to Western Company of North America, The. Hydraulic setting tool. 4,679,624, 7-14-87, Cl. 166-120.000.

Harris, Monty E.: *See—*
Sukup, Richard A.; and Harris, Monty E., 4,708,202, Cl. 166-123.000.

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Harris, Paul W. Water-tight ear enclosure. 4,660,229, 4-28-87, Cl. 2-209.000.

Harris, Peter B.; Goebel, Franz; Boyle, Gerard H.; and McHugh, William T., to GTE Government Systems Corporation. Electrochemical cell having porous metal coupling members. 4,668,592, 5-26-87, Cl. 429-116.000.

Harris, Peter B.: *See—*
Barry, Joseph, Jr.; Lewis, Jerry; Harris, Peter B.; and McHugh, William T., 4,689,108, Cl. 156-499.000.
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Harris Press and Shear, Inc.: *See—*
  Curles, Curtis T., 4,702,403, Cl. 225-96.500.
  Jackson, Jerry L.; and Outen, Johnny B., 4,658,719, Cl. 100-218.000.
  Simpson, Edwin K., 4,691,628, Cl. 100-37.000.
Harris, Richard J., Jr.; and Pickens, Frank D., to Spy-Mirrors, Inc. Mirror mounting apparatus. 4,687,305, 8-18-87, Cl. 350-624.000.
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  Horst, Robert W.; and Harris, Richard L., 4,636,943, Cl. 364-200.000.
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Harris, Richard M.: *See—*
  Toth, James M.; and Harris, Richard M., 4,644,271, Cl. 324-238.000.
Harris, Rickey D.: *See—*
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Harris, Robert B., to S. C. Johnson & Son, Inc. Tarnish remover/metal polish formulation comprising a metal iodide, an acid, and water. 4,640,713, 2-3-87, Cl. 106-3.000.
Harris, Robert D.: *See—*
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Harris, Robert F., to Dow Chemical Company, The. Process for preparing modified poly(alkylene carbonate) polyahls. 4,686,273, 8-11-87, Cl. 528-196.000.
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Harris, Robert S., to Stant Inc. Pressure-release fuel cap. 4,676,390, 6-30-87, Cl. 220-203.000.
Harris, Robert S., to Stant Inc. Vented fuel cap with bump and grade seal. 4,685,584, 8-11-87, Cl. 220-204.000.
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Harris, Robert S., to Stant Inc. Two-stage roll-over valve. 4,699,638, 10-13-87, Cl. 55-168.000.
Harris, Robert S., to Stant Inc. Vapor recovery system. 4,707,164, 11-17-87, Cl. 55-168.000.
Harris, Rod W. Tape dispensing device. 4,711,384, 12-8-87, Cl. 225-66.000.
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  Crout, Charles J.; Frame, Charles W.; and Harris, Ronald N., 4,653,300, Cl. 72-8.000.
  Crout, Charles J.; Frame, Charles W.; and Harris, Ronald N., 4,693,101, Cl. 72-20.000.
  Crout, Charles J.; Frame, Charles W.; and Harris, Ronald N., 4,712,404, Cl. 72-8.000.
  Crout, Charles J.; Frame, Charles W.; and Harris, Ronald N., 4,712,405, Cl. 72-19.000.
  Crout, Charles J.; Frame, Charles W.; and Harris, Ronald N., 4,712,415, Cl. 72-8.000.
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  Gray, William E.; and Harris, Ronald R., 4,653,397, Cl. 100-76.000.
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  Sterner, Rudolph J.; and Harris, Steven, 4,714,866, Cl. 318-636.00
Harris, Terence E.: *See—*
  Hewison, George D.; and Harris, Terence E., 4,712,802, Cl. 2 212.00C.
Harris, Thomas M.; and Harris, Constance M., to Vanderbilt University. Storable prepackaged aqueous solutions of vancomycin 4,670,258, 6-2-87, Cl. 424-115.000.
Harris, Timothy S.; and Harrod, Lawrence R., to Kransco Manufacturing, Inc. Two pedal, three-way control for child's riding toy 4,639,646, 1-27-87, Cl. 318-139.000.
Harris, Victor A., to Hersham Valves Ltd. Sliding gate assembly for a exhaust brake. 4,669,585, 6-2-87, Cl. 188-273.000.
Harris, William B. Desiccant cartridge for fuel tank vent line. 4,677,92 7-7-87, Cl. 114-211.000.
Harris, William F., Jr., to Celanese Corporation. Waterproof ammonium nitrate fuel oil explosives. 4,637,849, 1-20-87, Cl. 149-43.000
Harris, William G., to Boeing Company, The. Method for feeding solids to a controlled environment. 4,650,660, 3-17-87, Cl. 423-648.00R
Harris, William H.; Klag, James P.; and Lam, Joseph W., to Thrill C Manufacturing Company. Lightweight center beam railroad car 4,681,041, 7-21-87, Cl. 105-355.000.
Harris, William H.; and Burke, Dennis W. Method and apparatus for extraction of prostheses. 4,686,971, 8-18-87, Cl. 128-92.0VT.
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  Fink, Thomas F., Jr.; Harris, William O.; and Reiling, Gilbert H. 4,675,794, Cl. 362-289.000.
Harrisburg, Inc.: *See—*
  Franco-Ferreira, Edgard A.; and Blume, George H., 4,675,966, C 29-157.10R.
Harrison, Archie J., Jr.; Harper, Jerry; and Katzmann, Fred L. AC-DC transfer standard temperature sensor reversal error compensation circuit. 4,659,910, 4-21-87, Cl. 219-497.000.
Harrison, Barbara G. Musical block. 4,651,613, 3-24-87, Cl. 84-95.00C
Harrison, Bruce L.; and Wall, Richard J., to United Technologies Automotive, Inc. Hot melt, synthetic, magnetic sealant. 4,693,77 9-15-87, Cl. 156-272.400.
Harrison, Christopher R. B., to Wilkinson Sword Limited of Sword House. Spring-biased garden pruners. 4,633,587, 1-6-87, C 30-261.000.
Harrison, Craig. Mount for pickup trucks. 4,685,646, 8-11-87, C 248-225.310.
Harrison, Daniel J., to Eastman Kodak Company. Adhesives for laminating thermal print elements. 4,713,365, 12-15-87, Cl. 503-227.000
Harrison, David C.; and Glover, Brian, to Grundy Dispense Systems Inc. Concentric well-type extractor tube for filling containers with pressurized fluid. 4,715,414, 12-29-87, Cl. 141-302.000.
Harrison, David J.: *See—*
  Thompson, Thomas C., and Harrison, David J., 4,710,166, C 604-81.000.
Harrison, David M.; Gentili, Robert P.; and Bellucci, George N., to Allied Corporation. Particle deflector and method of distributing dissimilar particles. 4,683,922, 8-4-87, Cl. 141-9.000.
Harrison, Douglas H.: *See—*
  Basler, Bradley S.; and Harrison, Douglas H., 4,660,132, C 362-294.000.
Harrison, Eddie, Jr. Article carrier. 4,712,804, 12-15-87, Cl. 280-47.13R
Harrison, Edward K.: *See—*
  Goleczka, Joseph; Mills, Edmund P.; Harrison, Edward K.; and Nichols, Roy, 4,643,977, Cl. 436-34.000.
Harrison, Ernest, Jr., to United States of America, National Aeronautics and Space Administration. Universal connectors for joining stringers. 4,703,769, 11-3-87, Cl. 135-67.000.
Harrison, George C. Biological filtration process. 4,676,907, 6-30-87, Cl. 210-617.000.
Harrison, George W., to Team, Inc. Pipe weld repair device and method for the installation thereof. 4,709,729, 12-1-87, Cl. 138-99.000
Harrison, H. Page, to Canadian Patents and Development Limited Feed meter for conveyed material. 4,655,370, 4-7-87, Cl. 222-57.000
Harrison, Harold D.; and Tuten, James M., to Battelle Memorial Institute. Wheel load measurement. 4,701,866, 10-20-87, Cl. 364-550.000
Harrison, James. Automatic part and runner separator. 4,710,124 12-1-87, Cl. 425-554.000.
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  Beach, David L.; and Harrison, James J., 4,711,969, Cl 585-511.000.
  Williamson, Roger C.; and Harrison, James J., 4,697,040, Cl 585-666.000.

- Harrison, Joel N.; Condito, Vincent A.; Graham, Randolph H.; Nixon, Brian J.; and Simonsen, Richard C., to Quantum Corporation. Disk drive having two interactive electromechanical control subsystems. 4,639,798, 1-27-87, Cl. 360-73.000.
- Harrison, Joel N.; Moon, William G.; and Graham, Randolph H., to Plus Development Corporation. Modular unitary disk file subsystem. 4,639,863, 1-27-87, Cl. 364-200.000.
- Harrison, Joel N.; Daniels, Donald V.; and Brown, David A., to Quantum Corporation. Data transducer position control system for rotating disk data storage equipment. 4,660,106, 4-21-87, Cl. 360-77.000.
- Harrison, Joel N.: *See—*
  - Hahn, Peter S.; Stone, Thomas R.; Moon, William G.; and Harrison, Joel N., 4,703,176, Cl. 250-231.0SE.
- Harrison, John M., to Collins & Aikman Corporation. Electrical heating pad with antistatic surface. 4,661,689, 4-28-87, Cl. 219-528.000.
- Harrison, John R.: *See—*
  - Sardella, Louis M.; West, John B.; Harrison, John R.; and Parr, Dennis J., 4,683,822, Cl. 101-382.0MV.
- Harrison, John W., and Tucker, John H. Partial denture attachment appliance. 4,661,068, 4-28-87, Cl. 433-181.000.
- Harrison, Kim A. Fluorescent light bulb holder. 4,714,162, 12-22-87, Cl. 206-419.000.
- Harrison, Luther A.: *See—*
  - Callegari, Stephen R., Sr.; Harrison, Luther A.; and Salsman, Robert W., Jr., 4,701,869, Cl. 364-562.000.
- Harrison, Michael B., to Ampep, plc. Self-lubricating bearings. 4,666,318, 5-19-87, Cl. 384-625.000.
- Harrison, Michael R.: *See—*
  - White, Donald R.; and Harrison, Michael R., 4,685,099, Cl. 370-30.000.
- Harrison, Peter J.; and Castle, Derek C., to Pilkington Brothers P.L.C. Laminated obscuration banded windows for vehicles. 4,644,139, 2-17-87, Cl. 219-522.000.
- Harrison, Ray E.: *See—*
  - Murray, Charles R.; and Harrison, Ray E., 4,681,781, Cl. 428-35.000.
- Harrison, Reginald, to Dunlop Limited. Pneumatic vehicle suspension with failsafe internal stop. 4,690,388, 9-1-87, Cl. 267-35.000.
- Harrison, Robert G., and Kalivas, Grigorios A., to Canada, Her Majesty the Queen in right of, as represented by the Minister of National Defence. Microstrip/slotline frequency halver. 4,636,757, 1-13-87, Cl. 333-218.000.
- Harrison, Robert W. Dual-chambered oil changing container. 4,640,431, 2-3-87, Cl. 220-1.00C.
- Harrison, Roger C., to Amersham International plc. Reagent for making Technetium-99m labelled tin colloid for body scanning. 4,645,659, 2-24-87, Cl. 424-1.100.
- Harrison, Sandra K. Fitted contour sheet for mattresses. 4,662,013, 5-5-87, Cl. 5-497.000.
- Harrison, Scott A. Method for removing oil seals. 4,649,618, 3-17-87, Cl. 29-426.500.
- Harrison Western Corporation: *See—*
  - Snyder, Larry L., 4,637,657, Cl. 299-31.000.
- Harrison, William H.; Arakawa, Mitsuaki; and McCarten, Barry M., to University of California, The Regents of the. RF coil coupling for MRI with tuned RF rejection circuit using coax shield choke. 4,682,125, 7-21-87, Cl. 333-12.000.
- Harrison, William H.: *See—*
  - Rubin, Llewellyn A.; and Harrison, William H., 4,691,203, Cl. 340-856.000.
- Harrison, William M. Method of oil recovery. 4,648,449, 3-10-87, Cl. 166-249.000.
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- Harrod, Lawrence R., to Kransco Manufacturing, Inc. Ridable vehicle and assembly method. 4,709,958, 12-1-87, Cl. 296-177.000.
- Harrod, Lawrence R.: *See—*
  - Harris, Timothy S.; and Harrod, Lawrence R., 4,639,646, Cl. 318-139.000.
- Harrod, Melvin L.: *See—*
  - Evans, Alfred J.; Misner, Raymond H.; Gallion, James A.; and Harrod, Melvin L., 4,675,945, Cl. 17-33.000.
- Harrold, Donald T.; and Dziki, Jeffrey P., to Sutton Engineering Company. Method for shearing billets. 4,651,602, 3-24-87, Cl. 83-15.000.
- Harrold, William J.: *See—*
  - Bond, Bruce E.; and Harrold, William J., 4,693,812, Cl. 209-224.000.
  - Howarth, Thomas R.; Flanagan, Peter F.; Harrold, William J.; and Rodberg, Kenneth, 4,703,464, Cl. 367-156.000.
- Harrower, Duncan: *See—*
  - Maine, Stephen, Harrower, Duncan; and Mammen, Abraham, 4,700,181, Cl. 340-747.000.
- Harrsen, Jan; Grosse-Scharmann, Franz; and Gattermann, Bernd, to Amazonen-Werke H. Dreyer GmbH & Co. KG. Method of and device for acoustically counting particles. 4,651,331, 3-17-87, Cl. 377-6.000.
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- Harry, Alan, to PA Consulting Services Limited. Ribbon cassettes and apparatus for receiving same. 4,678,139, 7-7-87, Cl. 242-199.000.
- Harry, Alan, to PA Consulting Services Limited. Postal franking machine. 4,705,417, 11-10-87, Cl. 400-235.000.
- Harry, Alan J.; Poley, John; and MacArthur, Douglas S., to PA Consulting Services Limited. Franking machine having variable data incorporated onto endless bands. 4,665,821, 5-19-87, Cl. 101-110.000.
- Harry, Alan J.; Poley, John; and MacArthur, Douglas S., to PA Consulting Services Limited. Drive unit. 4,676,155, 6-30-87, Cl. 101-110.000.
- Harry Hill Associates: *See—*
  - Sturdevant, Eugene J., 4,639,577, Cl. 219-399.000.
- Harry, Ieuan L.: *See—*
  - Kerins, Gerard J.; Collette, Wayne N.; Beck, Martin H.; Clark, Richard E.; Harry, Ieuan L.; Krishnakumar, Suppayan; Miller, Bryan H.; Nichols, Richard C.; Piccioli, David; Tacito, Louis D.; and Worsowicz, Eileene M., 4,665,682, Cl. 53-452.000.
- Harry Major Machine & Tool Co.: *See—*
  - Miller, Jack E., 4,681,212, Cl. 198-803.200.
- Harsanyi, Jozsef; Kiss, Zoltan; Kukonya, Ferenc; Pinter, Janos; Suri, Alajos; and Toth, Andras, to Magyar Aluminiumipari Troszt. Apparatus for the separation of slurry with different grain size into two phases in a tank. 4,657,668, 4-14-87, Cl. 209-158.000.
- Harsanyi, Kalman: *See—*
  - Ezer, Elemer; Harsanyi, Kalman; Vikar nee Petho, Hajnalka; Matuz, Judit; Szporny, Laszlo; Cholnoky, Eszter; Kuthi, Osaba; Trischler, Ferenc; Hegedus, Bela; Kapolnas nee Pap, Marta; and Kallay nee Sohonyai, Anna, 4,691,017, Cl. 546-298.000.
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- Harsch, Erich; and Reichenbach, Reiner, to Maschinenfabrik Muller-Weingarten AG. Releasable coupler, particularly for gripper rails in a transfer press. 4,648,736, 3-10-87, Cl. 403-297.000.
- Harsch, Erich; and Reichenbach, Reiner, to Maschinenfabrik Muller-Weingarten AG. Shiftable workpiece gripper for a multi-stage press. 4,697,449, 10-6-87, Cl. 72-405.000.
- Harsch, Georg: *See—*
  - Mezger, Dieter; Harsch, Georg; and Flachenecker, Gert, 4,700,478, Cl. 30-294.000.
- Harsch, Herbert: *See—*
  - Burghoff, Karl; Schiller, Werner; Albrecht, Wilhelm; Harsch, Herbert; and Burghoff, Heinz-Georg, 4,680,952, Cl. 72-161.000.
- Harsco Corporation: *See—*
  - Borst, Paul H.; and Johnson, Bruce S., 4,664,434, Cl. 294-87.100.
  - Clark, John A., Jr., 4,635,711, Cl. 165-70.000.
  - Curtis, William I.; and DeRamo, Paul H., 4,646,475, Cl. 51-145.00T.
  - D'Alessio, Michael S.; Sandler, Stanley A.; Smith, Gary; and Herman, Gerald, 4,671,382, Cl. 182-128.000.
  - Johnson, Bruce S., 4,666,035, Cl. 206-3.000.
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  - Johnson, Bruce S., 4,706,825, Cl. 212-182.000.
  - Perisastry, Ayyala; Vishe, Richard A.; and Huber, Henry J., 4,655,668, Cl. 414-417.000.
- Harsdorff, Ortwin, to SKF GmbH. Multiple-row tapered rolling bearing and disassembly method. 4,647,231, 3-3-87, Cl. 384-560.000.
- Harsh, Jack L.: *See—*
  - Bigler, Mont D.; and Harsh, Jack L., 4,707,997, Cl. 62-341.000.
- Harshaw/Filtrol Partnership: *See—*
  - Insolio, Thomas A., 4,691,438, Cl. 30-164.950.
  - Kelly, Donald G.; and Nebesh, Eugene, 4,666,879, Cl. 502-244.000.
  - Mack, Howard S., 4,699,081, Cl. 118-691.000.
  - Tailor, Ramesh C.; and Utts, Bradley K., 4,676,817, Cl. 65-43.000.
  - Tawil, Riad A.; and Velbeck, Kenneth, 4,677,300, Cl. 250-366.000.
  - Wilt, Michael C.; Utts, Bradley K.; and Toth, Michael L., 4,658,141, Cl. 250-361.00R.
- Harshaw, Robert C., to Texas Instruments Incorporated. Tunable multiline/multiband laser. 4,696,012, 9-22-87, Cl. 372-99.000.
- Harshbarger, John H.; and Shores, William M., to Visual Information Institute, Inc. Television video pattern generator system. 4,670,782, 6-2-87, Cl. 358-139.000.
- Harshberger, Robert P., Jr.; Loucks, Bryan E.; and Witte, Kenneth G., to Greyhawk Systems, Inc. Apparatus for positioning a rotating element. 4,705,996, 11-10-87, Cl. 318-160.000.
- Harshman, Jack D.: *See—*
  - Allen, Charles R.; and Harshman, Jack D., 4,715,234, Cl. 73-861.910.
- Harshman, Nathan J.: *See—*
  - Ogilvie, Francis J.; and Harshman, Nathan J., 4,674,923, Cl. 407-31.000.
- Harstead, Edward E.; Klafter, Leon; and Shi, Yan-Chi, to American Telephone and Telegraph Company, AT&T Bell Laboratories. Plural-channel optical rotary joint. 4,643,521, 2-17-87, Cl. 350-96.200.
- Hart, Albert A.: *See—*
  - Shea, Dennis W.; Hart, Albert A.; and Charchian, Loris J., 4,667,767, Cl. 180-247.000.
- Hart, C. Jack: *See—*
  - King, William R.; and Hart, C. Jack, 4,643,880, Cl. 422-156.000.
- Hart, Charlavan. Personal color analysis method. 4,681,546, 7-21-87, Cl. 434-99.000.
- Hart, Cornelis M.; and Slob, Arie, to U.S. Philips Corporation. Integrated injection logic circuits. 4,714,842, 12-22-87, Cl. 307-477.000.
- Hart, Curtis W.: *See—*
  - Wheeler, Michael J.; and Hart, Curtis W., 4,673,883, Cl. 324-384.000.
- Hart, Dennis, to Dosco Corporation, The. Mining machine with adjustable jib. 4,668,016, 5-26-87, Cl. 299-29.000.
- Hart, Douglas R. S. Diagnostic thermostat. 4,685,615, 8-11-87, Cl. 236-94.000.

Hart, Edward E., to Spectra-Physics, Inc. Magnetic speed reduction device. 4,684,836, 8-4-87, Cl. 310-83.000.

Hart, Edward E.: *See—*
  Markley, Theodore J.; Teach, Ted L.; Hart, Edward E.; and Pohl, William C., 4,654,856, Cl. 372-65.000.

Hart, Edward F.; and McDonough, William, to Homestead Products, Inc. Electrical appliance control system. 4,716,409, 12-29-87, Cl. 340-825.220.

Hart, George W.; and Kern, Edward C., Jr., to Massachusetts Institute of Technology. Digital ac monitor. 4,672,555, 6-9-87, Cl. 364-483.000.

Hart, Helena F.: *See—*
  Harris, William J.; and Hart, Helena F., 4,716,104, Cl. 435-5.000.

Hart, Hiram. Separative scintillation proximity assay. 4,687,636, 8-18-87, Cl. 422-57.000.

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  Bottomley, Paul A.; Edelstein, William A.; Hart, Howard R., Jr.; Schenck, John F.; Redington, Rowland W.; and Leue, William M., 4,689,563, Cl. 324-309.000.
  Dumoulin, Charles L.; and Hart, Howard R., Jr., 4,714,081, Cl. 128-653.000.

Hart, Ian J. Golf trolleys. 4,705,293, 11-10-87, Cl. 280-641.000.

Hart, James B.: *See—*
  Kitner, William M.; and Hart, James B., 4,694,770, Cl. 114-123.000.

Hart, James D., to Trinity Industries, Inc. Railroad car door bottom guide rail system. 4,715,291, 12-29-87, Cl. 105-378.000.

Hart, James E. Underwater signalling device. 4,635,242, 1-6-87, Cl. 367-134.000.

Hart, James E.; Zoric, Michael T.; and Kyllonen, Allen W., to American Standard Inc. Clamping arrangement for diaphragm-type piston. 4,666,166, 5-19-87, Cl. 277-212.0FB.

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Hart, Keith L.: *See—*
  Keem, John E.; Ovshinsky, Stanford R.; Flessa, Steven A.; Wood, James L.; Hart, Keith L.; and Sztaba, Lennard, 4,693,933, Cl. 428-333.000.
  Wood, James L.; Grupido, Nicola J.; Hart, Keith L.; and Keem, John E., 4,675,889, Cl. 378-84.000.

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Hart, Lynn W.: *See—*
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Hart, Marshall: *See—*
  Barnhouse, Robert L.; Elo, James C.; Mattison, George F., Jr.; and Hart, Marshall, 4,660,272, Cl. 29-558.000.

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  Viles, Joseph M.; and Hart, Paul V., 4,675,002, Cl. 604-5.000.

Hart, Richard T., to Varo, Inc. Adjustable night vision goggle mounting bracket. 4,670,912, 6-9-87, Cl. 2-209.100.

Hart, Richard T.: *See—*
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Hart, Thomas E. Sidehammer percussion action. 4,672,761, 6-16-87, Cl. 42-51.000.

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Hart, William D.: *See—*
  Todd, Christian A.; and Hart, William D., 4,682,993, Cl. 55-314.000.

Hart, William F., Jr.: *See—*
  Hart, William F., Sr.; and Hart, William F., Jr., 4,668,131, Cl. 406-23.000.

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Hartai nee Zsorzs, Eva: *See—*
  Berenyi nee Poldermann, Edit; Varga, Laszlo; Pallos, Laszlo; Petocz, Lujza; Ladanyi, Laszlo; Tompe, Peter; Hartai nee Zsorzs, Eva; and Kovacs nee Palotai, Agnes, 4,652,562, C 514-237.000.

Harte Industries, Inc.: *See—*
  Schmidt, E. Michael; and Price, P. Michael, 4,691,424, C 29-261.000.

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  Langner, Guenther O.; Harte, Kenneth J.; Dalterio, Michael J., an Fishbein, Marvin, 4,675,528, Cl. 250-396.00R.
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  Ghibu, Michael; Hartel, Volker; Heynemann, Carl; and Rauhac Manfred, 4,683,979, Cl. 181-286.000.
  Goossens, John; Oppermann, Gunter; Grape, Wolfgang; and Hartel, Volker, 4,645,614, Cl. 252-75.000.
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  Doriath, Gerard; Hartemann, Pierre; and Jacobelli, Ala 4,697,145, Cl. 324-244.000.

Harten, Johannes: *See—*
  Bergner, Herbert; Blidung, Otto; and Harten, Johannes, 4,651 Cl. 53-231.000.

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  Kleinschroth, Jorgen; Satzinger, Gerhard; Mannhardt, Karl; Hartenstein, Johannes; Osswald, Hartmut; Weinheimer, Gonter; an Fritschi, Edgar, 4,681,882, Cl. 514-258.000.
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  Kleinschroth, Jurgen; Mannhardt, Karl; Hartenstein, Johanne Osswald, Hartmut; and Wagner, Bernd, 4,681,881, C 514-258.000.
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  Satzinger, Gerhard; Hartenstein, Johannes; Mannhardt, Kar Kleinschroth, Jurgen; Osswald, Hartmut; Weinheimer, Gunte and Fritschi, Edgar, 4,711,901, Cl. 514-300.000.

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  Volk, Heinrich; Harter, Karl; and Dotter, Fritz, 4,694,745, C 101-111.000.

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  Cuppens, Roger; and Hartgring, Cornelis D., 4,707,807, C 365-154.000.

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Harting, Dietmar; Nagel, Hans; and Piewitt, Gunter, 4,634,206, Cl. 339-103.00M.

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Hartjes, Rudolf; and Graber, Gunter. Golf shoe. 4,715,133, 12-29-87, Cl. 36-127.000.

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Hartkorn, Alfred. Joint spanning construction for bridges or similar structures. 4,637,085, 1-20-87, Cl. 14-16.500.

Hartl, Carroll P.; and Heitman, James M., to Oscar Mayer Foods Corporation. Automatic crimping mechanism for proteinaceous patties. 4,714,014, 12-22-87, Cl. 99-450.200.

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Mally, Timothy G.; Hartl, Carroll P.; Orloff, Daniel L.; and Total, Robert V., 4,645,400, Cl. 414-28.000.

Hartl, Christof, and Wagner, Hans, to Siemens Aktiengesellschaft. Hearing aid with a flexible printed circuit board. 4,639,556, 1-27-87, Cl. 381-68.600.

Hartl, James C.: *See—*

Saaski, Elric W.; and Hartl, James C., 4,678,904, Cl. 250-227.000.

Hartl, Walter A. M.; Peter, Diethard A.; and Reiber, Klaus H., to U.S. Philips Corporation. Rotary anode X-ray tube having a sliding bearing. 4,677,651, 6-30-87, Cl. 378-132.000.

Hartlage, Andrew C. Iron holder. 4,657,213, 4-14-87, Cl. 248-117.700.

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Hartle, Ronald J.; and Hall, Robert C., to Nordson Corporation. Variable air-piloted air regulator system. 4,640,310, 2-3-87, Cl. 137-883.000.

Hartleben, Harold A.: *See—*

Choy, Terence A.; and Hartleben, Harold A., 4,668,205, Cl. 446-230.000.

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Hartleif, Hans-Peter: *See—*

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Hartler, Nils J. C.; Lekander, Karl-Erik; Sjodin, Lars T.; and Mjoberg, Per J., to Sunds Defibrator Aktiebolag. Method of making sulphate pulp. 4,690,731, 9-1-87, Cl. 162-45.000.

Hartley, Brian: *See—*

Hobson, Keith J.; and Hartley, Brian, 4,715,483, Cl. 192-4.00A.

Hartley Controls Corporation: *See—*

Bradway, David W.; and Danke, Jeffrey G., 4,699,011, Cl. 73-823.000.

Hartley, Craig J.: *See—*

Demer, Linda L.; Jain, Avanindra; Raizner, Albert E.; and Hartley, Craig J., 4,651,738, Cl. 128-344.000.

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Hartley, Richard A. Security striker plate. 4,690,445, 9-1-87, Cl. 292-341.000.

Hartley, Sarah T.: *See—*

Brelsford, David P.; Cerutti, Daniel D.; Coleman, Leslie S.; Davison, Gerald A.; Dewey, Pamela H.; Enichen, Margaret C.; Hartley, Sarah T.; Malinowski, Paul A.; Rogers, Roger W.; Tallman, Peter H.; and Wilczak, Lynn A., 4,674,038, Cl. 364-200.000.

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Hartman, Boyd K., to Washington University, The. Methods for the determination of brain antigens. 4,654,313, 3-31-87, Cl. 436-542.000.

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Hartman, Davis H.; and Richard, Fred V., to Motorola, Inc. OPFET photodetector. 4,636,646, 1-13-87, Cl. 250-551.000.

Hartman, Dennis C.: *See—*

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Hartman, Frederick A., to Procter & Gamble Company, The. Bleaching compositions. 4,671,891, 6-9-87, Cl. 252-186.420.

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Hartman, George: *See—*

Baldwin, John J.; Halczenko, Wasyl; Hartman, George; and Pitzenberger, Steven M., 4,678,806, Cl. 514-539.000.

Hartman, George D.; and Phillips, Brian T., to Merck & Co., Inc. Benzo(f)isoquinoline compounds useful as calcium entry blockers. 4,670,443, 6-2-87, Cl. 514-290.000.

Hartman, George D., to Merck & Co., Inc. 2,6-disubstituted derivatives of 3-nitropyrazines useful as adjuncts to radiation therapy. 4,709,035, 11-24-87, Cl. 544-407.000.

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Puski, Gabor; Hartman, Grant H., Jr.; and Talbott, Robert D., 4,697,004, Cl. 530-378.000.

Hartman, James: *See—*

Preg, Robert; and Hartman, James, 4,672,167, Cl. 219-117.100.

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Hartman, John E.; and Venaleck, John T., to Associated Enterprises, Inc. A method and apparatus for surface mount compatible connector system with mechanical integrity. 4,663,815, 5-12-87, Cl. 29-839.000.

Hartman, John E.: *See—*

Ignasiak, Martin C.; Tengler, John N.; and Hartman, John E., 4,671,592, Cl. 439-331.000.

Hartman, John F. Mechanism for rotating a robot arm on an axis. 4,662,813, 5-5-87, Cl. 414-718.000.

Hartman, John F. Rotary mechanism for robot arms. 4,688,985, 8-25-87, Cl. 414-744.00R.

Hartman, John F. Robot gripping jaw operator. 4,697,838, 10-6-87, Cl. 294-88.000.

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Hartman, Keneth D.: *See—*

Petridis, Petros; Newell, Darrel E.; and Hartman, Keneth D., 4,661,201, Cl. 156-628.000.

Hartman, Leo, to Hoogovens Groep B.V. Method for the manufacture of metal packaging cans, and a semi-product in the manufacture of such cans. 4,681,237, 7-21-87, Cl. 220-70.000.

Hartman, Murray: *See—*

Martin, Frank J.; Hartman, Murray; and Saunders, Randy, 4,640,985, Cl. 174-138.00F.

Hartman, Neil W., to L. W. Fleckenstein, Inc. Gas compressor for jet engine. 4,644,746, 2-24-87, Cl. 60-269.000.

Hartman, Nile F.: *See—*

Renner, G. Frederick; Thatcher, Richard K.; Atterbury, William G.; Harris, Jeremy M.; Hartman, Nile F.; and McCown, Robert B., 4,641,027, Cl. 250-237.00G.

Hartman, Robert A.; and Koch, Paul E., to Energy Conversion Devices, Inc. Process and apparatus for continuous production of lightweight arrays of photovoltaic cells. 4,663,829, 5-12-87, Cl. 29-572.000.

Hartman, Robert D. Minnow bucket. 4,686,788, 8-18-87, Cl. 43-56.000.

Hartman, Robert J.: *See—*

Ramlow, Gerhard G.; Heyman, Duane A.; Grace, Oscar M.; Reichel, Curtis J.; and Hartman, Robert J., 4,689,354, Cl. 521-137.000.

Reichel, Curtis J.; Levis, William W., Jr.; and Hartman, Robert J., 4,637,893, Cl. 252-182.000.

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Ackerman, David A.; Camarda, Renato M.; Hartman, Robert L., and Spector, Magaly, 4,684,883, Cl. 324-71.500.

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Huebner, Victor R.; and Hartman, Scott K., 4,688,017, Cl. 340-347.0NT.

Hartman, Thomas W.; and Ryan, Thomas G., to Cyclops Corporation. Cellular flooring system and method of using same. 4,682,456, 7-28-87, Cl. 52-221.000.

Hartman, William F.; and Boyd, Robert W., to Harris Corporation. Error correction processing scheme for sequential codec. 4,669,084, 5-26-87, Cl. 371-43.000.

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Hartmann, Achim; and Schonherr, Dietrich W., to Kronos Titan-GmbH. Method for the cooling of hot gaseous solids suspensions of titanium dioxide. 4,633,935, 1-6-87, Cl. 165-1.000.

Hartmann, Albert: *See—*
Baschang, Gerhard; Hartmann, Albert; and Wacker, Oskar, 4,640,911, Cl. 514-42.000.
Baschang, Gerhard; Hartmann, Albert; and Wacker, Oskar, 4,666,886, Cl. 514-17.000.
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Fabinski, Walter; Apel, Willi; Bernhardt, Guenter; Jezdinsky, Rudolf; and Wolf, Heinz, 4,671,664, Cl. 356-440.000.
Fabinski, Walter; and Schaefer, Werner, 4,682,031, Cl. 250-345.000.
Fabinski, Walter, 4,700,073, Cl. 250-343.000.
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Hartmann, Claus: *See—*
Pietsch, Gunther; and Hartmann, Claus, 4,684,574, Cl. 428-402.200.

Hartmann, Clinton S.: *See—*
Ragan, Lawrence H.; Hartmann, Clinton S.; and Ash, Darrell L., 4,663,664, Cl. 380-16.000.
Ragan, Lawrence H.; Hartmann, Clinton S.; and Ash, Darrell L., 4,682,223, Cl. 380-16.000.

Hartmann, Dirck T. Multiple speed planetary transmission for pedal-powered vehicles. 4,666,172, 5-19-87, Cl. 280-238.000.

Hartmann, Dirck T. Single speed transmission for pedal-propelled vehicle. 4,694,708, 9-22-87, Cl. 74-750.00B.

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Hartmann, Dirck T. Dual range planetary transmission for pedal powered vehicles. 4,706,982, 11-17-87, Cl. 280-238.000.

Hartmann, Dirck T. Three speed chainless planetary transmission for pedal-powered vehicles. 4,715,246, 12-29-87, Cl. 74-594.200.

Hartmann, Ernst-Siegfried: *See—*
Wahnschaffe, Jurgen; Hartmann, Ernst-Siegfried; Casper, Karl-Josef; zur Nieden, Achim; and Schleiermacher, Herbert, 4,672,923, Cl. 123-41.740.

Hartmann, Ervin: *See—*
Weppner, Werner; Hartmann, Ervin; and Rabenau, Albrecht, 4,704,341, Cl. 429-192.000.

Hartmann, Franz; and Matern, Klaus, to Nordischer Maschinenbau Rud. Baader GmbH & Co KG. Apparatus for handling fish fillets for the purpose of quality inspection. 4,706,336, 11-17-87, Cl. 17-55.000.

Hartmann, Franz-Josef; and Hefendehl, Heinz, to Benteler-Werke AG. Straightening device. 4,640,115, 2-3-87, Cl. 72-98.000.

Hartmann, Georg; Wiedemann, Kurt; and Zimmer, Ernst, to KUKA Schweissanlagen & Roboter GmbH. System of externally holding and guiding supply lines to moving implements of manipulators. 4,705,243, 11-10-87, Cl. 248-51.000.

Hartmann, George C., to Xerox Corporation. Liquid development system. 4,707,112, 11-17-87, Cl. 355-10.000.

Hartmann, Hans; and Kerschbaum, Ewald, to AKG Akustische u. Kino-Gerate GmbH. Acoustic frictional resistance construction and method of producing an acoustic frictional resistance using a laser. 4,640,382, 2-3-87, Cl. 181-175.000.

Hartmann, Hans, to George Hartmann GmbH & Co. KG. Identification card readable by a magnetic system. 4,687,231, 8-18-87, Cl. 283-82.000.

Hartmann, Hans-Heinrich: *See—*
Feldmann, Hugo; Svagr, Alexandr; and Hartmann, Hans-Heinrich, 4,653,304, Cl. 72-239.000.

Hartmann, Hans J., to ACS Industries, Inc. Compacted wire seal and method of forming same. 4,683,010, 7-28-87, Cl. 148-6.350.

Hartmann, Heinrich; Hoffmann, Gerhard; Buensch, Hellmut; and Hofmann, Reiner, to BASF Aktiengesellschaft. Photopolymerizable recording materials containing cyclic pentadienes for the production of printing plates, and the production of printing plates using these recording materials. 4,643,963, 2-17-87, Cl. 430-286.000.

Hartmann, Heinrich: *See—*
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Kurps, Armin; Fischer, Hermann; Hartmann, Jurgen; and Hartmann, Heinrich, 4,645,568, Cl. 203-14.000.

Hartmann, Horst: *See—*
Pfaff, Klaus-Peter, Paust, Joachim; and Hartmann, Horst, 4,681,936, Cl. 536-124.000.

Hartmann, Joel; and Jeuch, Pierre, to Commissariat a l'Energie Atomique. Device for checking mobile electrical charges in a MOS integrated circuit. 4,672,313, 6-9-87, Cl. 324-158.00F.

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Hartmann, Joel: *See—*
Buiguez, Francois; and Hartmann, Joel, 4,636,281, Cl. 156-643.000.

Hartmann, Joseph P.: *See—*
Malka, Jacob H.; and Hartmann, Joseph P., 4,644,268, Cl. 324-83.00R.

Hartmann, Jurgen: *See—*
Kurps, Armin; Fischer, Hermann; Hartmann, Jurgen; and Hartmann, Heinrich, 4,645,568, Cl. 203-14.000.

Hartmann, Kurt: *See—*
Bohg, Armin; and Hartmann, Kurt, 4,651,640, Cl. 101-93.480.
Bohg, Armin; Fischer, Ludwig; Gantz, Bruno; Hartmann, Kurt and Wolfert, Gerhard, 4,688,012, Cl. 335-276.000.

Hartmann & Lammle GmbH & Co.: *See—*
Schulze, Eckehart, 4,633,759, Cl. 91-368.000.

Hartmann, Ludwig; and Ruzek, Ivo, to Carl Freudenberg, Firma. Elastic roofing and sealing materials. 4,714,651, 12-22-87, Cl 428-286.000.

Hartmann, Ludwig A.; and Stephen, John F., to ICI Americas Inc. Synthesis of 2-substituted-5-methyl-pyridines and intermediates therefor. 4,658,031, 4-14-87, Cl. 546-193.000.

Hartmann, Ludwig A.; and Stephen, John F., to ICI Americas Inc. Bispiperidone precursor of 2-substituted-5-methyl-pyridines. 4,687,854, 8-18-87, Cl. 546-261.000.

Hartmann, Manfred: *See—*
Sridhar, Srinivasan; and Hartmann, Manfred, 4,645,570, Cl. 203-73.000.

Hartmann, Michael J.; Lo, Kuang-hsin K.; and Nolan, Daniel A., to Corning Glass Works. Electrically insulating body. 4,699,831, 10-13-87, Cl. 428-35.000.

Hartmann, Robert F.; Chan, Yiu-Fai; Frankovich, Robert J.; Ou, Jung-Hsing; So, Hock C.; and Wong, Sau-Ching, to Altera Corporation. Programmable macrocell using eprom or eeprom transistors for architecture control in programmable logic circuits. 4,713,792, 12-15-87, Cl. 364-900.000.

Hartmann, Rolf: *See—*
Wolter, Albrecht; Hartmann, Rolf; Herchenbach, Horst; and Grisar, Alexander, 4,640,203, Cl. 110-346.000.

Hartmann, Rudolf, to United States of America, Army. Temperature stable boresight module. 4,649,274, 3-10-87, Cl. 250-341.000.

Hartmann, Werner: *See—*
Lauer, Reinhard; and Hartmann, Werner, 4,644,483, Cl. 364-569.000.

Hartmann, Wilhelm U.; and Martin, James A., to HR Textron Inc. Filter disc. 4,637,877, 1-20-87, Cl. 210-347.000.

Hartmann, Willi: *See—*
Saalbach, Kurt; and Hartmann, Willi, 4,709,551, Cl. 60-589.000.

Hartmann, Wolfgang; and Gocht, Paul G., to Metallgesellschaft Aktiengesellschaft. Electrofilter. 4,678,484, 7-7-87, Cl. 55-112.000.

Hartmeier, Werner N., to RCA Corporation. Comb filter "hanging dot" eliminator. 4,636,842, 1-13-87, Cl. 358-31.000.

Hartmetallwerkzeugfabrik Andreas Maier GmbH & Co.: *See—*
Maier, Andreas, 4,645,389, Cl. 408-230.000.

Hartmetallwerkzeugfabrik Andreas Maier GmbH & Co. KG: *See—*
Maier, Andreas, 4,679,971, Cl. 408-145.000.

Hartness International, Inc.: *See—*
Hartness, Robert G.; and Hartness, Thomas S., 4,709,536, Cl. 53-539.000.

Hartness, Robert G.; and Hartness, Thomas S., to Hartness International, Inc. Article transport apparatus. 4,709,536, 12-1-87, Cl. 53-539.000.

Hartness, Thomas S. Case packer. 4,644,734, 2-24-87, Cl. 53-500.000.

Hartness, Thomas S.: *See—*
Hartness, Robert G.; and Hartness, Thomas S., 4,709,536, Cl. 53-539.000.

Hartnett, Thomas M.: *See—*
Maguire, Edward A.; Hartnett, Thomas M.; and Gentilman, Richard L., 4,686,070, Cl. 264-1.200.

Hartnig, Heinz, to Inmarco AG. Bottle washing apparatus. 4,667,690, 5-26-87, Cl. 134-62.000.

Hartog, Arthur H.; and Payne, David N., to National Research Development Corporation. Fibre optic sensing device and method. 4,714,829, 12-22-87, Cl. 250-227.000.

Hartshorn, Kevin, to Ingersoll-Rand Company. Unidirectional fluid control valve. 4,643,220, 2-17-87, Cl. 137-516.130.

Hartshorn, Kevin, to Ingersoll-Rand Company. Ported-plate, fluid control valve. 4,705,068, 11-10-87, Cl. 137-512.100.

Hartsing, Tyler F., Jr.; and Sauers, Marvin E., to Amoco Corporation. Serving tray article comprising a blend of a sulfone, styrene and a polycarbonate. 4,649,176, 3-10-87, Cl. 525-67.000.

Hartsock, Dale L., to Ford Motor Company. Composite ceramic/metal piston assembly and method of making. 4,649,806, 3-17-87, Cl. 92-212.000.

Hartstein, Allan M.: *See—*
Beha, Johannes G.; Dreyfus, Russell W.; Hartstein, Allan M.; and Rubloff, Gary W., 4,644,264, Cl. 324-73.00R.
Fowler, Alan B.; and Hartstein, Allan M., 4,672,423, Cl. 357-23.300.

Hartung, Gunnar W., to Rockwool Aktiebolaget. Method and apparatus for fiberizing molten mineral material. 4,661,134, 4-28-87, Cl. 65-6.000.

Hartung, Michael H.; and Tayler, Gerald E., to International Business Machines Corporation. Method and apparatus for grouping asynchronous recording operations. 4,636,946, 1-13-87, Cl. 364-200.000.

Hartung, Michael H., to International Business Machines Corporation. Peripheral data storage having access controls with error recovery. 4,638,425, 1-20-87, Cl. 364-200.000.

Hartung, Russell M., to General Signal Corporation. Railroad switch mechanism. 4,637,579, 1-20-87, Cl. 246-452.000.

Hartwell Corporation: *See—*
Anderson, John P., 4,683,614, Cl. 16-362.000.
Poe, L. Richard; and Harmon, Raymond E., 4,674,930, Cl. 411-40.000.

Hartwell, Eric S.: *See—*
Turner, Michael J. B.; Hanley, Michael; and Hartwell, Eric S. 4,640,231, Cl. 119-155.000.

Hartwell, Gregory W., to Peterson, Wicks, Nemer & Kamrath, P.A. Lightweight wheelchair. 4,650,201, 3-17-87, Cl. 280-242.0WC.

Hartwell, Gregory W., to Peterson, Wicks, Nemer & Kamrath, P.A. Lightweight wheelchair. 4,652,005, 3-24-87, Cl. 280-242.0WC.

Hartwig, Carl S. M., to Institut Cerac S.A. Drive system for A.C. motors. 4,639,645, 1-27-87, Cl. 318-51.000.

Hartwig, Carl S. M., to Institut Cerac S.A. Combustion engine system. 4,665,704, 5-19-87, Cl. 60-597.000.

Hartwig, Jurgen, to Pfaff Haushaltmaschinen GmbH. Sewing machine for producing a stitch pattern. 4,638,752, 1-27-87, Cl. 112-458.000.

Hartwig, Manfred; and Rausch, Georg, to Mannesmann Rexroth GmbH. Hydraulically operated self-closing two-way seat-type valve. 4,682,756, 7-28-87, Cl. 251-63.500.

Hartwig, Manfred, to Mannesmann Rexroth GmbH. Device for adjusting the switching time of a valve member. 4,687,177, 8-18-87, Cl. 251-25.000.

Hartwig, Richard K. Ceiling fan guard. 4,657,485, 4-14-87, Cl. 416-247.00R.

Hartwig, Richard P.: *See—*
  Yawn, Gary W.; and Hartwig, Richard P., 4,650,997, Cl. 250-236.000.

Harty, Alexander; and Lange, Jurgen, to Loga Mobel GmbH. Folding chair. 4,645,260, 2-24-87, Cl. 297-35.000.

Harty, Alexander: *See—*
  Kapp, Manfred; Gattermeyer-Kapp, Ulrike; and Harty, Alexander, 4,685,732, Cl. 297-35.000.

Hartz, James F.; Bazilio, Rayman E.; and Ferguson, Michael R., to General Motors Corporation. Mounting for track laying vehicle transmission. 4,687,071, 8-18-87, Cl. 180-9.100.

Hartz, James F., to General Motors Corporation. Single point actuated self-adjusting brake mechanism in a vehicle driven by a cross-drive transmission. 4,706,785, 11-17-87, Cl. 188-106.00F.

Hartz, James F.: *See—*
  Bazilio, Rayman E.; Hartz, James F.; and Uliana, Anthony R., 4,711,328, Cl. 188-296.000.

Hartz Mountain Corporation, The: *See—*
  Suchowski, Bernard, 4,689,860, Cl. 24-239.000.

Hartzell, Dean A.: *See—*
  Cooper, Michael G.; Elliott, Elden M.; and Hartzell, Dean A., 4,644,538, Cl. 371-9.000.

Hartzell, Kirk. Manure separator. 4,666,602, 5-19-87, Cl. 210-298.000.

Hartzell Propeller Inc.: *See—*
  Harlamert, W. Benjamin; and Stackhouse, Donald C., 4,699,568, Cl. 416-95.000.

Hartzell, Stephen L., to Du Pont de Nemours, E. I., and Company. Herbicidal pyrazolesulfonamides. 4,705,558, 11-10-87, Cl. 71-92.000.

Haru, Yasuhiko: *See—*
  Yoshida, Shoji; Haru, Yasuhiko; Kosaka, Etsuji; Ikeda, Toshimichi; Aoyama, Mikio; and Iida, Takeo, 4,691,788, Cl. 175-62.000.

Haruchika Precision Company, Ltd.: *See—*
  Kojima, Hideo, 4,662,119, Cl. 51-55.000.

Haruguchi, Kenji; Kohguchi, Takuma; and Sekiya, Osamu, to Sumitomo Heavy Industries, Ltd. Method of mounting blister on ship's hull in dry dock. 4,712,499, 12-15-87, Cl. 114-77.00R.

Haruki, Hiromu: *See—*
  Nishiura, Masaharu; and Haruki, Hiromu, 4,692,345, Cl. 427-39.000.

Haruki, Muneyuki: *See—*
  Takahashi, Satoshi; Tsutsumi, Akira; Suzuki, Junji; Kumakura, Hiroshi; Ito, Takao; Ohsawa, Kenji; Ikegami, Yuji; Haruki, Muneyuki; Yasuda, Nobuyuki; and Ohta, Masayuki, 4,677,252, Cl. 174-68.500.

Harumatsu, Masatoshi; Fuse, Masashi; Tomoyori, Makoto; and Tsushima, Noboru, to Alps Electric Co. Ltd. Direction detection apparatus. 4,672,563, 6-9-87, Cl. 364-559.000.

Harumatsu, Masatoshi, to Alps Electric Co., Ltd. Variable width paper feeder for perforated and unperforated paper. 4,693,620, 9-15-87, Cl. 400-611.000.

Harumi, Fujio: *See—*
  Takebayashi, Hiroaki; Harumi, Fujio; Nakamura, Kiyoshi; and Inoue, Koichi, 4,634,300, Cl. 384-548.000.

Harumoto Iron Works Co., Ltd.: *See—*
  Kishida, Hiroo; and Takenaka, Hirofumi, 4,641,816, Cl. 254-228.000.
  Kishida, Hiroo; and Takenaka, Hirofumi, 4,710,994, Cl. 14-1.000.

Haruna, Kazuo; and Hayashi, Saburo, to Seitetsu Kagaku Co., Ltd. Process for producing high concentration oxygen by a pressure-swing-adsorption method. 4,661,125, 4-28-87, Cl. 55-26.000.

Haruna, Kazuo; Ueda, Kanji; and Uno, Masaru, to Seitetsu Kagaku Co., Ltd. Process for producing oxygen-enriched gas. 4,684,377, 8-4-87, Cl. 55-26.000.

Haruna, Kazuo; and Shiozawa, Iwamitsu, to Seitetsu Kagaku Co., Ltd. Adsorption apparatus. 4,713,100, 12-15-87, Cl. 55-387.000.

Haruna, Koichi; Nakao, Kazuo; Nishiyama, Tamotsu; Tashiro, Tsutomu; Matsumoto, Kuniaki; and Saida, Nobuyuki, to Hitachi, Ltd.; and Hitachi Microcomputer Engineering Ltd. Reliability analyzing system for manufacturing processes. 4,644,480, 2-17-87, Cl. 364-552.000.

Haruna, Koichi: *See—*
  Sano, Koichi; Yokoyama, Tetsuo; Yamagata, Shimbu; and Haruna, Koichi, 4,644,278, Cl. 324-309.000.
  Watanabe, Toshinori; Masuishi, Tetsuya; Sasaki, Koji; Haruna, Koichi; and Horie, Noboru, 4,651,284, Cl. 364-491.000.

Haruna, Masamitsu: *See—*
  Yoshida, Taizo; Mori, Masaaki; Koyama, Jiro; and Haruna, Masamitsu, 4,648,687, Cl. 350-96.130.

Haruna, Takayuki: *See—*
  Inamori, Hiroo; Nasuda, Sigeyuki; Morimoto, Yoshio; and Haruna, Takayuki, 4,691,874, Cl. 242-80.000.

Haruna, Tohru; Nishimura, Atsushi; and Sugibuchi, Kazuo, to Adeka Argus Chemical Co., Ltd. Process for preparing 2,2,6,6-tetramethyl-4-oxopiperidine. 4,661,597, 4-28-87, Cl. 546-242.000.

Haruna, Tohru; Nishimura, Atsushi; and Sugibuchi, Kazuo, to Adeka Argus Chemical Co., Ltd. Method for preparing 2,2,6,6-tetramethyl-4-oxopiperidine. 4,663,459, 5-5-87, Cl. 546-242.000.

Haruna, Tohru: *See—*
  Nakahara, Yutaka; Haruna, Tohru; and Tobita, Etsuo, 4,670,492, Cl. 524-119.000.

Harunari, Yoshihiro: *See—*
  Tokuda, Ryuji; Harunari, Yoshihiro; and Kobe, Takashi, 4,701,048, Cl. 356-1.000.

Haruno, Kiyoshi: *See—*
  Iida, Koujirou; Yoshioka, Yasuo; Ogawa, Hiroshi; Haruno, Kiyoshi; and Ohigashi, Tsugio, 4,682,768, Cl. 271-3.100.

Harush, Shlomo: *See—*
  Goldfeld, Emil; Harush, Shlomo; Takserman, Yuri; and Weiler, Shmuel, 4,705,237, Cl. 244-3.120.

Haruta, Kazumi; and Yoshida, Shigeru, to Aisan Kogyo Kabushiki Kaisha. System for reducing discharge of fuel vapor from fuel tank to atmosphere. 4,702,216, 10-27-87, Cl. 123-520.000.

Haruta, Kenyu; Wakata, Hitoshi; Sato, Yukio; Nagai, Haruhiko; Nakatani, Hajime; and Kita, Hideki, to Mitsubishi Denki Kabushiki Kaisha. Discharge excitation type short pulse laser device. 4,686,682, 8-11-87, Cl. 372-87.000.

Haruta, Masahiro; Kobayashi, Masatsune; and Ohta, Tokuya, to Canon Kabushiki Kaisha. Recording process. 4,655,834, 4-7-87, Cl. 106-20.000.

Haruta, Masahiro; Kobayashi, Masatsune; and Ohta, Tokuya, to Canon Kabushiki Kaisha. Process for evaluating the solubility of a colorant. 4,655,835, 4-7-87, Cl. 106-20.000.

Haruta, Masahiro, to Canon Kabushiki Kaisha. Recording method. 4,677,445, 6-30-87, Cl. 346-1.100.

Haruta, Masahiro; Kuwae, Yoko; Yuasa, Satoshi; and Miyazaki, Toshihiko, to Canon Kabushiki Kaisha. Image recording material comprising photosensitive layer and recording layer on electroconductive base. 4,711,830, 12-8-87, Cl. 430-52.000.

Haruta, Masahiro: *See—*
  Eguchi, Ken; Matsuda, Hiroshi; Haruta, Masahiro; Nishimura, Yukuo; Hirai, Yutaka; and Nakagiri, Takashi, 4,683,147, Cl. 427-54.100.
  Eguchi, Ken; Nishimura, Yukuo; Haruta, Masahiro; Matsuda, Hiroshi; Hirai, Yutaka; and Nakagiri, Takashi, 4,705,403, Cl. 356-319.000.
  Hirai, Yutaka; Matsuda, Hiroshi; Eguchi, Ken; Haruta, Masahiro; Nishimura, Yukuo; and Nakagiri, Takashi, 4,683,146, Cl. 427-54.100.
  Hirai, Yutaka; Haruta, Masahiro; Nishimura, Yukuo; Matsuda, Hiroshi; and Nakagiri, Takashi, 4,695,717, Cl. 250-213.00R.
  Matsuda, Hiroshi; Haruta, Masahiro; Hirai, Yutaka; Nishimura, Yukuo; Eguchi, Ken; and Nakagiri, Takashi, 4,693,915, Cl. 427-256.000.
  Munakata, Hirohide; Tomida, Yoshinori; Haruta, Masahiro; Hirai, Yutaka; Nishimura, Yukuo; and Hamamoto, Takashi, 4,634,628, Cl. 430-325.000.
  Nishimura, Yukuo; Asano, Toshiaki; Mizusawa, Nobutoshi; Kawakami, Eigo; Haruta, Masahiro; Noma, Takashi; Takagi, Hiroshi; Nakazawa, Mitsunobu; and Ozawa, Kunitaka, 4,640,592, Cl. 350-96.320.
  Nishimura, Yukuo; Eguchi, Ken; Matsuda, Hiroshi; Haruta, Masahiro; Hirai, Yutaka; and Nakagiri, Takashi, 4,683,144, Cl. 427-35.000.
  Nishimura, Yukuo; Eguchi, Ken; Matsuda, Hiroshi; Haruta, Masahiro; Hirai, Yutaka; and Nakagiri, Takashi, 4,683,145, Cl. 427-36.000.
  Nishimura, Yukuo; Kawakami, Eigo; Asano, Toshiaki; Haruta, Masahiro; Takagi, Hiroshi; Noma, Takashi; Mizusawa, Nobutoshi; Nakazawa, Mitsunobu; and Ozawa, Kunitaka, 4,685,766, Cl. 350-96.320.
  Ozawa, Kunitaka; Haruta, Masahiro; Eida, Tsuyoshi; and Hamamoto, Takashi, 4,664,815, Cl. 210-96.100.
  Ozawa, Kunitaka; Haruta, Masahiro; Eida, Tsuyoshi; and Hamamoto, Takashi, 4,698,151, Cl. 210-96.100.
  Yano, Yasuhiro; Haruta, Masahiro; and Hara, Toshitami, 4,675,693, Cl. 346-1.100.

Haruta, Masatake; Sano, Hiroshi; and Kobayashi, Tetsuhiko, to Agency of Industrial Science & Technology; and Ministry of International Trade & Industry. Method for manufacture of catalyst composite having gold or mixture of gold with catalytic metal oxide deposited on carrier. 4,698,324, 10-6-87, Cl. 502-243.000.

Haruta, Yoshinobu: *See—*
  Koyama, Ryouhei; and Haruta, Yoshinobu, 4,658,162, Cl. 310-68.00R.

Haruyama, Hideaki: *See—*
  Kobayashi, Hiroshi; Haruyama, Hideaki; and Hirose, Tsuguhiro, 4,661,950, Cl. 370-85.000.
  Kobayashi, Hiroshi; Haruyama, Hideaki; and Hirose, Tsuguhiro, 4,694,453, Cl. 370-85.000.

Harvard University: *See—*
  Evans, David A.; and Sjogren, Eric B., 4,673,737, Cl. 540-205.000.

Harvey, Alexander, to United States of America, Energy. Vacuum chamber for containing particle beams. 4,712,074, 12-8-87, Cl. 328-233.000.

Harvey, Andrew C.; and Doherty, Brian J., to Foster-Miller, Inc. Flow system. 4,662,657, 5-5-87, Cl. 285-96.000.
Harvey, Andrew C.; Ribich, William A.; Marinaccio, Paul J.; and Sawaf, Bernard E., to Foster-Miller, Inc. Separable fastening device. 4,709,453, 12-1-87, Cl. 24-442.000.
Harvey, Arthur E., Sr.; and Harvey, Thomas J. Permanent dental prosthesis and method. 4,661,067, 4-28-87, Cl. 433-181.000.
Harvey, Brian J.: *See*—
Denny, Christopher G.; and Harvey, Brian J., 4,684,366, Cl. 604-130.000.
Harvey, Charles P., to British Aerospace PLC. Automatic mist preventing system for vehicle transparencies. 4,693,172, 9-15-87, Cl. 98-2.010.
Harvey, Christian D. Composting unit. 4,687,645, 8-18-87, Cl. 422-184.000.
Harvey, David M.; and Moody, Charistopher J., to Lucas Industries public limited company. Fuel injection nozzles. 4,706,887, 11-17-87, Cl. 239-453.000.
Harvey, Dennis N.; and Bertolasi, Robert B., to MTS Systems Corporation. Optical displacement transducer usable as an extensometer. 4,590,001, 9-1-87, Cl. 73-800.000.
Harvey, Donald M., to Eastman Kodak Company. Pseudo format camera with exposure control. 4,639,111, 1-27-87, Cl. 354-481.000.
Harvey, Donald M., to Eastman Kodak Company. Pseudo format camera and special film cartridge. 4,650,304, 3-17-87, Cl. 354-21.000.
Harvey, Donald M., to Eastman Kodak Company. Pseudo format camera with zoom finder. 4,652,104, 3-24-87, Cl. 354-106.000.
Harvey, Donald M., to Eastman Kodak Company. Camera apparatus for preventing vertical flash exposures with flash unit below taking lens. 4,668,064, 5-26-87, Cl. 354-149.110.
Harvey, Donald M., to Eastman Kodak Company. Camera device for encoding conventional film cartridge. 4,678,299, 7-7-87, Cl. 354-21.000.
Harvey, Donald M., to Eastman Kodak Company. Film speed setting reminder mechanism. 4,707,102, 11-17-87, Cl. 354-289.100.
Harvey, Douglas J., to General Motors Corporation. Halide treatment for aluminum lost foam casting process. 4,711,288, 12-8-87, Cl. 164-34.000.
Harvey, Eric M., to Resco Products, Inc. Refractory structure and method. 4,649,687, 3-17-87, Cl. 52-596.000.
Harvey, Frederick W.; and Johnson, Glenn W., to Eastman Kodak Company. Film leader positioning apparatus. 4,641,936, 2-10-87, Cl. 354-212.000.
Harvey, Frederick W.; and Pagano, Daniel M., to Eastman Kodak Company. Film winding error prevention apperatus. 4,655,573, 4-7-87, Cl. 354-213.000.
Harvey, Glenn: *See*—
Michaels, Sid; and Harvey, Glenn, 4,669,400, Cl. 112-121.260.
Harvey Hubbell Incorporated: *See*—
Boteler, William C., 4,636,017, Cl. 339-17.00F.
Boteler, William C.; Ehrenfels, Alfred L.; and Lutz, David L., 4,674,807, Cl. 439-106.000.
Gartland, Albert J., Jr.; and Sandor, James A., 4,658,088, Cl. 174-66.000.
Griffiths, Thomas W.; and Suris, Vladimir, 4,634,817, Cl. 191-67.000.
Hoffman, Ernest G., 4,644,094, Cl. 174-47.000.
Jorgensen, Robert W.; and Nowak, Michael R., 4,637,639, Cl. 285-249.000.
Jorgensen, Robert W.; Lewis, Thomas E.; and Kesler, Gregory J., 4,640,433, Cl. 220-266.000.
Lewis, Thomas E., 4,666,055, Cl. 220-3.200.
Neuroth, David H., 4,675,474, Cl. 174-102.00R.
Nuckolls, Joe A.; and Evans, Kerry G., 4,686,424, Cl. 315-86.000.
Raudabaugh, Donald E., 4,656,555, Cl. 361-117.000.
Rue, Robert H., 4,695,803, Cl. 324-403.000.
Suris, Vladimir, 4,658,100, Cl. 191-41.000.
Harvey, Ian E.; Williams, David G.; Fisher, Barbara J.; and Johnson, Timothy J., to Harris Corporation. Fuse programmable DC level generator. 4,686,384, 8-11-87, Cl. 307-202.100.
Harvey, Ian E.: *See*—
Fisher, Barbara J.; and Harvey, Ian E., 4,644,191, Cl. 307-465.000.
Harvey, Ian J.: *See*—
Anthony, Peter L.; and Harvey, Ian J., 4,700,143, Cl. 328-151.000.
Harvey, John C.; and Cuddihy, James W. Signal processing apparatus, and methods. 4,694,490, 9-15-87, Cl. 380-20.000.
Harvey, John C.; and Cuddihy, James W. Signal processing apparatus and methods. 4,704,725, 11-3-87, Cl. 380-9.000.
Harvey, John D.; and Gindre, Andre V., to Goodyear Tire & Rubber Company, The. Crack resistant coating for masonry structures. 4,634,724, 1-6-87, Cl. 523-219.000.
Harvey, Kaye F.; Johns, Reginald B.; Buchanan, Alan S.; and Cain, David A., to University of Melbourne, The; and CRA Services Limited. Upgrading solid fuels. 4,701,184, 10-20-87, Cl. 44-10.00D.
Harvey, Marc. Rain jacket. 4,665,563, 5-19-87, Cl. 2-87.000.
Harvey, Nathan A.; and Avery, Roland M., Jr., to John D. Brush & Co., Inc. Heat storage composition. 4,645,613, 2-24-87, Cl. 252-70.000.
Harvey, Raymond A., to Xerox Corporation. Sheet stacker. 4,681,312, 7-21-87, Cl. 271-207.000.
Harvey, Richard: *See*—
Thomas, Charles E.; and Harvey, Richard, 4,641,599, Cl. 114-346.000.
Harvey, Robert D. Method and apparatus for dispensing oil well proppant additive. 4,681,245, 7-21-87, Cl. 222-643.000.
Harvey, Robin J.; Gallagher, Hayden E.; and Schumacher, Robert W., to Hughes Aircraft Company. Wire-ion-plasma electron gun employing auxiliary grid. 4,642,522, 2-10-87, Cl. 315-111.310.
Harvey, Robin J.; and Gallagher, Hayden E., to Hughes Aircraft Co pany. Radial geometry electron beam controlled switch utiliz wire-ion-plasma electron source. 4,645,978, 2-24-87, Cl. 315-111.9
Harvey, Robin J., to Hughes Aircraft Company. Corrugated refle apparatus and method for free electron lasers. 4,697,272, 9-29-87, C 372-99.000.
Harvey, Robin J., to Hughes Aircraft Company. Plasma-anode electr gun. 4,707,637, 11-17-87, Cl. 315-111.810.
Harvey, Ross H.; Wobcke, Graham W.; Rogers, Antony W., a Fenwick, Robert R., to Dunlop Olympic Limited. Clarifie 4,650,579, 3-17-87, Cl. 210-199.000.
Harvey, Roy L.; and Mason, Douglas, to American District Telegra Company. Multimode programmable stand-alone access contr system. 4,634,846, 1-6-87, Cl. 235-382.000.
Harvey, Thomas B., III, to Sola U.S.A. Inc. Hydrophilic siloxa monomers and dimers for contact lens materials, and contact lens fabricated therefrom. 4,711,943, 12-8-87, Cl. 526-279.000.
Harvey, Thomas B., III: *See*—
Bauman, Robert E.; Chandrasekaran, S. Kumar; Lin, Shaow B Bowman, Lyle M.; and Harvey, Thomas B., III, 4,666,249, C 351-160.00H.
Lin, Shaow B.; Bowman, Lyle M.; Chandrasekaran, S. Kumar; an Harvey, Thomas B., III, 4,687,816, Cl. 525-279.000.
Harvey, Thomas D.: *See*—
Winter, Russell K.; Harvey, Thomas D.; and Savas, Nedi 4,646,923, Cl. 211-189.000.
Winter, Russell K.; Harvey, Thomas D.; Savas, Nedim; and Ka Richard S., 4,650,261, Cl. 312-140.000.
Harvey, Thomas J.: *See*—
Harvey, Arthur E., Sr.; and Harvey, Thomas J., 4,661,067, C 433-181.000.
Harvey, Vernon B. W. Irrigation or other machine having a rotata drum carrying a hose or other flexible element wound there 4,655,399, 4-7-87, Cl. 239-745.000.
Harvey, Vernon B. W. Ground-engaging travelling structu 4,703,895, 11-3-87, Cl. 239-731.000.
Harvey, William P. Kayak/canoe paddle. 4,673,351, 6-16-87, C 440-101.000.
Harvilchuck, Joseph M.: *See*—
Ainslie, Norman G.; Harvilchuck, Joseph M.; Interrante, Mar King, William J., Jr.; Palmateer, Paul H.; and Sullivan, John F 4,634,638, Cl. 428-671.000.
Harwath, Frank L., to Suntec Industries Incorporated. Gear pump wi means for preventing shaft lock-up. 4,685,871, 8-11-87, C 418-206.000.
Harwell, William: *See*—
Edelstein, Fred; Haslett, Robert A.; Kosson, Robert L.; and Ha well, William, 4,685,512, Cl. 165-104.140.
Harwell, William D.; and Gardner, Dale A., to United States of Am ica, National Aeronautics and Space Administration. Apparatus a method of capturing an orbiting spacecraft. 4,664,344, 5-12-87, C 244-161.000.
Harwick, Milton C.; and Spector, George. Weight maximiz 4,712,793, 12-15-87, Cl. 272-118.000.
Harwig, Hendrik A.: *See*—
Slotboom, Jan W.; Harwig, Hendrik A.; and Pelgrom, Marcell J. M., 4,669,100, Cl. 377-60.000.
Harwood, Brian K.: *See*—
Schreiber, Karl R.; and Harwood, Brian K., 4,706,384, C 30-91.200.
Harwood, J. Richard; and Bell, Frank A., to J. I. Case Company. Fa implement with frame connected thereto by linkage mechanis 4,696,349, 9-29-87, Cl. 172-323.000.
Harwood, J. Richard: *See*—
Wiebe, Kenneth J.; Harwood, J. Richard; and Martin, Russell 4,700,784, Cl. 172-126.000.
Harwood, Jon; Clegg, Michael; Rosa, Bruno A.; and Moring, Wal G., to AP Industries, Inc. Method for manufacturing a heat shield exhaust system component. 4,656,712, 4-14-87, Cl. 29-157.00R.
Harwood, Jon, to AP Industries, Inc. Stamp formed muffler. 4,700, 10-20-87, Cl. 181-282.000.
Harwood, Jon W.: *See*—
Peele, Camille; Harwood, Jon W.; and Resuggan, Pet 4,712,295, Cl. 29-700.000.
Rosa, Bruno A.; Harwood, Jon W.; Moring, Walter G., III, a Resuggan, Peter L., 4,656,713, Cl. 29-157.00R.
Harwood, Leopold A.; and Law, Kirk A., to RCA Corporation. Du tion-sensitive digital signal gate. 4,634,984, 1-6-87, Cl. 328-112.00
Harwood, Leopold A.; and Patel, Chandrakant B., to RCA Corpo tion. Adaptive control of the chrominance signal frequency respo in a video signal processing system. 4,651,196, 3-17-87, Cl. 358-38.0
Harwood, Leopold A.; Filliman, Paul D.; and Keen, Ronald T., to R Corporation. Television receiver responsive to plural video sig 4,660,085, 4-21-87, Cl. 358-171.000.
Harwood, Leopold A.; and Wargo, Robert A., to RCA Corpora Digital pulse width detector. 4,670,665, 6-2-87, Cl. 307-234.000.
Harwood, Leopold A.; Wargo, Robert A.; and Patel, Chandrakant to RCA Corporation. Vertical detail information restoration circ 4,686,561, 8-11-87, Cl. 358-31.000.
Harwood, Leopold A.: *See*—
Balaban, Alvin R.; Patel, Chandrakant B.; Demmer, Walter H., a Harwood, Leopold A., 4,686,560, Cl. 358-19.000.
Balaban, Alvin R.; Demmer, Walter H.; Harwood, Leopold A., a Patel, Chandrakant B., 4,700,217, Cl. 358-23.000.
Balaban, Alvin R.; Harwood, Leopold A.; Patel, Chandrakant and Demmer, Walter H., 4,703,340, Cl. 358-19.000.

Demmer, Walter H.; Harwood, Leopold A.; Patel, Chandrakant B.; and Balaban, Alvin R., 4,694,327, Cl. 358-19.000.

Fuliman, Paul D.; Harwood, Leopold A.; Keen, Ronald T.; and Parker, Robert P., 4,660,084, Cl. 358-171.000.

Law, Kirk A.; and Harwood, Leopold A., 4,694,331, Cl. 358-31.000.

Roeder, Barbara J.; Harwood, Leopold A.; and Weckenbrock, Hermann J., 4,661,853, Cl. 358-167.000.

Roeder, Barbara J.; Harwood, Leopold A.; and Weckenbrock, Hermann J., 4,684,989, Cl. 358-167.000.

Wargo, Robert A.; Harwood, Leopold A.; Pritchard, Dalton H.; and Chartier, Michael S., 4,716,462, Cl. 358-166.000.

Weckenbrock, Hermann J.; Roeder, Barbara J.; Casey, Robert F.; Harwood, Leopold A.; and Wedam, Werner F., 4,651,211, Cl. 358-166.000.

Harwood, Michael E.: *See—*

Carroll, Michael W.; and Harwood, Michael E., 4,692,980, Cl. 29-243.520.

Harwood, Robert E., and Hawrylo, Frank Z., to RCA Corporation. Sharp edge formation on copper heatsinks. 4,693,649, 9-15-87, Cl. 409-293.000.

Harwood, Warren S. Loudspeaker cabinet. 4,657,107, 4-14-87, Cl. 181-144.000.

Hary, Joseph: *See—*

Torban, Yefim; and Hary, Joseph, 4,648,671, Cl. 339-89.00R.

Harz, Debra L.: *See—*

Wong, Show-Chu; Deol, Harbans S.; and Harz, Debra L., 4,698,312, Cl. 436-10.000.

Hasada, Eiichi: *See—*

Fujiwara, Kenichi; Asano, Hideo; Hasada, Eiichi; Makida, Kazuhisa; and Iida, Akinori, 4,637,222, Cl. 62-244.000.

Hasak, Wilhelm, to Landshuter Baueisenbiegerei GmbH. Process and equipment for the production of reinforcement baskets for large-bore piles. 4,658,867, 4-21-87, Cl. 140-112.000.

Hasal, Pavel: *See—*

Krovak, Premysl; Behunek, Vladimir; Vojtisek, Vladimir; Salvet, Miroslav; and Hasal, Pavel, 4,683,062, Cl. 210-617.000.

Hasan, Riaz, to Illinois Tool Works Inc. Washer for roofing insulation. 4,663,910, 5-12-87, Cl. 52-410.000.

Hasan, Riaz, to Illinois Tool Works Inc. Washer with resilient head gripping means. 4,712,959, 12-15-87, Cl. 411-533.000.

Hasbro Bradley, Inc.: *See—*

Loomis, Bernard; Baiera, Vincent A.; Caldwell, Bennie I.; and Strauss, Gary J., 4,655,721, Cl. 446-219.000.

Orenstein, Henry; and Dunsay, George, 4,674,985, Cl. 446-14.000.

Hasbro Canada, Inc.: *See—*

Makow, Henry, 4,635,939, Cl. 273-296.000.

Hasbro, Inc.: *See—*

Eddins, Fred D.; and Cooke, William B., 4,670,820, Cl. 362-86.000.

Israel, Cheryl; and Morgan, Melissa M., 4,685,599, Cl. 224-170.000.

Trossman, Martin M., 4,689,032, Cl. 446-160.000.

Hascal, Marcel; Lopez, Sergio; Danielski, Andrew; and Mihai, Adrian. Portable electrostatic field safety monitor. 4,714,915, 12-22-87, Cl. 340-657.000.

Haschart, Karl E.: *See—*

Dyment, James A.; Albers, Norbert C.; Benison, Harvey W.; Haschart, Karl E.; and Veach, John S., 4,663,943, Cl. 62-250.000.

Hasco International, Inc.: *See—*

Arnold, Marc E.; and Marcus, Mitchell S., 4,637,712, Cl. 355-75.000.

Hasco Normalien Hasenclever & Co.: *See—*

Kuhling, Franz, 4,708,314, Cl. 249-103.000.

Hase, Alfred M. Precision constant current control with automatic compensation. 4,661,898, 4-28-87, Cl. 363-82.000.

Hase, Christian; Wegemund, Bernd; Erwied, Werner; and Krampitz, Dieter, to Henkel Kommanditgesellschaft auf Aktien. Stabilized polyvinylchloride molding compositions. 4,668,711, 5-26-87, Cl. 524-207.000.

Hase, Hiroyuki: *See—*

Yamashita, Ichiro; Wakamiya, Masayuki; Hase, Hiroyuki; and Tokuono, Shinya, 4,696,192, Cl. 73-728.000.

Hase, Yoshiaki; and Shigi, Toshio, to ASICS Corporation. Sports shoes. 4,642,913, 2-17-87, Cl. 36-50.000.

Hasebe, Hiroshi; Asakura, Masahiko; Sakaino, Michio; and Miyashita, Yukio, to Honda Giken Kogyo Kabushiki Kaisha. Idling speed control system for internal combustion engines. 4,693,220, 9-15-87, Cl. 123-339.000.

Hasebe, Hiroshi: *See—*

Asakura, Masahiko; Kawanabe, Tomohiko; Kushida, Noritaka; and Hasebe, Hiroshi, 4,706,637, Cl. 123-589.000.

Kawanabe, Tomohiko; Asakura, Masahiko; Muroya, Minoru; Kimura, Katsuhiko; Kushida, Noritaka; and Hasebe, Hiroshi, 4,665,874, Cl. 123-440.000.

Hasebe, Kazuhiro: *See—*

Tasaka, Motoo; and Hasebe, Kazuhiro, 4,652,486, Cl. 428-321.300.

Hasebe, Masahiro: *See—*

Sakakibara, Shiro; Sobue, Norio; Miyaishi, Yoshinori; Koshiba, Sadahiro; and Hasebe, Masahiro, 4,655,735, Cl. 474-245.000.

Hasebe, Nobuyuki: *See—*

Kondow, Kiyohiro; Mihama, Takeshi; Hara, Yasuaki; Aoki, Hisashi; and Hasebe, Nobuyuki, 4,689,384, Cl. 528-15.000.

Hasegawa, Akinori: *See—*

Morishita, Akira; Akae, Yoshifumi; Okamoto, Kyoichi; Nakagawa, Taiichi; Morikane, Hiroyuki; Kounou, Tadami; Arima, Takemi; and Hasegawa, Akinori, 4,680,979, Cl. 74-7.00E.

Morishita, Akira; Okamoto, Kyoichi; Nakagawa, Taiichi; Morikane, Hiroyuki; Hasegawa, Akinori; Arima, Takemi; and Kounou, Tadami, 4,712,451, Cl. 74-801.000.

Hasegawa, Akira, to Toyota Jidosha Kabushiki Kaisha. Power steering apparatus. 4,633,963, 1-6-87, Cl. 180-143.000.

Hasegawa, Akira, to Toyota Jidosha Kabushiki Kaisha. Steering mechanism of rack-and-pinion type. 4,640,148, 2-3-87, Cl. 74-422.000.

Hasegawa, Akira; Shibata, Takanori; and Hamano, Fumio, to Hitachi, Ltd. Multiplex communication system. 4,654,890, 3-31-87, Cl. 455-607.000.

Hasegawa, Akira, to Kabushiki Kaisha Toshiba. Method and apparatus for encoding and transmitting picture information of half tones. 4,667,251, 5-19-87, Cl. 358-283.000.

Hasegawa, Akira; Nishimura, Kaoru; and Yoshida, Yukio, to Mitsubishi Jukogyo Kabushiki Kaisha. Control apparatus for a vulcanizing machine. 4,674,965, 6-23-87, Cl. 425-29.000.

Hasegawa, Akira, to Yoshida Kogyo K. K. Slide fastener stringer. 4,675,951, 6-30-87, Cl. 24-408.000.

Hasegawa, Akira: *See—*

Tanooka, Shigeo; Mori, Yutaka; Oono, Akihiro; and Hasegawa, Akira, 4,691,796, Cl. 180-142.000.

Yoshida, Hiroshi; and Hasegawa, Akira, 4,639,981, Cl. 24-401.000.

Hasegawa, Hajime: *See—*

Shimizu, Goro; Hayashi, Yoshimi; Hasegawa, Hajime; Koga, Taiji; Takei, Atsuo; Okuyama, Tohru; and Torigoe, Hideo, 4,666,949, Cl. 521-114.000.

Hasegawa, Hideo: *See—*

Satta, Kozo; Hasegawa, Hideo; and Kimura, Mareo, 4,655,892, Cl. 204-192.150.

Hasegawa, Hiroaki: *See—*

Kitahara, Shizuo; Hirokawa, Yoshitsugu; Kawada, Haruki; Fujii, Toshihiro; Sugi, Nagatoshi; Hasegawa, Hiroaki; and Yoshioka, Akira, 4,654,435, Cl. 560-61.000.

Hasegawa, Hiromi: *See—*

Takahashi, Shigeo; Hasegawa, Hiromi; Furusawa, Choji; and Morisawa, Kunio, 4,651,773, Cl. 137-315.000.

Hasegawa, Hiroshi, to Nippon Kogaku K. K. Electronic power supply. 4,643,558, 2-17-87, Cl. 354-484.000.

Hasegawa, Hiroshi, to Topre Corporation. Key switch. 4,659,879, 4-21-87, Cl. 200-5.00A.

Hasegawa, Hiroshi, to Nippon Kogaku K. K. Exposure control device in a camera. 4,668,069, 5-26-87, Cl. 354-428.000.

Hasegawa, Hiroshi; and Inoue, Mitsuhiro, to Hitachi Chemical Co., Ltd. Ceramic coated laminate and process for producing the same. 4,713,284, 12-15-87, Cl. 428-246.000.

Hasegawa, Hiroshi: *See—*

Abe, Fumio; Hasegawa, Hiroshi; Fujita, Tadashi; and Maeda, Makoto, 4,673,349, Cl. 431-328.000.

Hasegawa, Hisayasu: *See—*

Fukuma, Nobuo; Hasegawa, Hisayasu; Murayama, Kimimasa; Hayashi, Kunio; and Tokudome, Yoshihiro, 4,689,864, Cl. 29-157.10R.

Hasegawa, Hitoshi: *See—*

Hayashi, Keizo; Hasegawa, Hitoshi; and Suhara, Katsuhiro, 4,708,633, Cl. 425-574.000.

Hasegawa, Isao; Yoshikawa, Kikuo; Takagi, Satoshi; and Takahashi, Akira, to Clarion Co., Ltd. Channel changing mechanism in a tape player. 4,691,261, 9-1-87, Cl. 360-137.000.

Hasegawa, Isao: *See—*

Takahashi, Akira; and Hasegawa, Isao, 4,656,552, Cl. 360-137.000.

Takahashi, Akira; and Hasegawa, Isao, 4,674,001, Cl. 360-137.000.

Hasegawa, Iwao, to Kabushiki Kaisha Toshiba. Electronic private branch exchanges. 4,707,853, 11-17-87, Cl. 379-221.000.

Hasegawa, Junzo; Kawabata, Susumu; and Mimura, Nobuharu, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Bearing device. 4,657,413, 4-14-87, Cl. 384-524.000.

Hasegawa, Junzo; Kawabata, Susumu; and Mimura, Nobuharu, to Kabushiki Kaisha Toyota Chuo Kenkyusho. High-speed spindle. 4,681,492, 7-21-87, Cl. 409-231.000.

Hasegawa, Katsuji, to Meinan Machinery Works, Inc. Plywood. 4,640,857, 2-3-87, Cl. 428-57.000.

Hasegawa, Katsumi; Yasuda, Toshio; and Shimada, Kouji, to Toray Industries Inc. Yarn winding apparatus. 4,674,694, 6-23-87, Cl. 242-43.00R.

Hasegawa, Katsumi; Ohno, Michio; Nagayasu, Tadahito; and Umeda, Kazuo, to Toray Industries, Inc. Method for melt-spinning thermoplastic polymer fibers. 4,702,871, 10-27-87, Cl. 264-101.000.

Hasegawa, Kazumi: *See—*

Palmquist, Steven R.; Takita, Kentaro; and Hasegawa, Kazumi, 4,646,297, Cl. 371-1.000.

Hasegawa, Kazuo, to Alps Electric Co., Ltd. Rectangular wave-shaping circuit with varying threshold level. 4,652,774, 3-24-87, Cl. 307-268.000.

Hasegawa, Kazuo; and Fujiwara, Osamu, to Mitsubishi Denki Kabushiki Kaisha. Recording medium disk continuous-driving apparatus. 4,670,866, 6-2-87, Cl. 369-36.000.

Hasegawa, Kazuo; Sasaki, Hiroaki; and Nakase, Kohji, to Alps Electric Co., Ltd. Touch-panel input device. 4,689,446, 8-25-87, Cl. 178-18.000.

Hasegawa, Kenichi: *See—*

Mori, Toshiki; Yamada, Haruyasu; Hasegawa, Kenichi; and Aono, Kunitoshi, 4,635,231, Cl. 365-190.000.

Mori, Toshiki; Yamada, Haruyasu; Hasegawa, Kenichi; and Aono, Kunitoshi, 4,635,292, Cl. 382-41.000.

Hasegawa, Kenji, to Scovill Japan Kabushiki Kaisha. Covered button. 4,654,934, 4-7-87, Cl. 24-113.00R.

Hasegawa, Kenji; Sakano, Yasuo; Katsuragi, Yasuhiro; Aimoto, Kenji; and Sugihara, Kunio, to Sunstar Kabushiki Kaisha; and Toray Industries, Inc. Pharmaceutical composition containing interferon in stable state. 4,675,184, 6-23-87, Cl. 424-85.000.

Hasegawa, Kenji; Nakashima, Koichi; Eguchi, Tohru; and Ota, Masako, to Lederle (Japan), Ltd. Composition stably containing minocycline for treating periodontal diseases. 4,701,320, 10-20-87, Cl. 424-54.000.

Hasegawa, Kenji; Sato, Tetsuo; and Iwanami, Teruo, to Nippon Gohsei Kagaku Kogyo Kabushiki Kaisha. Method for production of polyester structures with improved gas barrier property. 4,713,266, 12-15-87, Cl. 427-412.500.

Hasegawa, Kinji: *See—*
  Katoh, Hideo; and Hasegawa, Kinji, 4,670,319, Cl. 428-141.000.

Hasegawa, Kiyotaka: *See—*
  Yamanaka, Sekisuke; Yanase, Akira; Hasegawa, Kiyotaka; and Sakakino, Takahiro, 4,647,732, Cl. 200-11.0TW.

Hasegawa, Kohichi: *See—*
  Matsumoto, Hisashi; Motogami, Yoshikazu; Miyahara, Masahiko; Inoue, Tokuta; Hasegawa, Kohichi; Aoki, Keiji; Ikeda, Shinji; Kawai, Mitsuo; Kobashi, Mamoru; Takata, Mamoru; Nagase, Masaomi; and Hoshiba, Hiroyuki, 4,665,740, Cl. 73-116.000.

Hasegawa, Koichi: *See—*
  Tanaka, Toshiaki; Niwa, Hitoshi; Mukai, Hirokatsu; Miwa, Naoto; Nara, Akio; Nomura, Etsuji; Hori, Makoto; Hasegawa, Koichi; and Noguchi, Hiroshi, 4,685,437, Cl. 123-549.000.

Hasegawa, Kouzi: *See—*
  Fujita, Toshio; and Hasegawa, Kouzi, 4,715,007, Cl. 364-563.000.

Hasegawa, Kunio; Shimizu, Tasuku; Horiuchi, Tetsuo; and Ito, Hisao, to Hitachi, Ltd. Piping of nuclear reactor containment vessel. 4,687,625, 8-18-87, Cl. 376-292.000.

Hasegawa, Kyohei, to Nippon Seiki Co., Ltd. Spraying apparatus. 4,687,140, 8-18-87, Cl. 239-332.000.

Hasegawa, Kyohei, to Nippon Seiki Co., Ltd. Protective device for spraying apparatus. 4,700,890, 10-20-87, Cl. 239-103.000.

Hasegawa, Makoto; and Yamashita, Sadahiko, to Matsushita Electric Industrial Co., Ltd. VHF-UHF mixer having a balun. 4,651,344, 3-17-87, Cl. 455-325.000.

Hasegawa, Makoto: *See—*
  Yamashita, Sadahiko; Hasegawa, Makoto; Ohba, Motoi; Kikuchi, Koh; and Shishido, Tsutomu, 4,661,998, Cl. 455-315.000.

Hasegawa, Masafumi: *See—*
  Kuwamoto, Michio; Takahashi, Masahiro; and Hasegawa, Masafumi, 4,651,055, Cl. 313-496.000.

Hasegawa, Masahiko; Naito, Yoshihiro; Tsunekawa, Masaru; and Momose, Yutaka, to Aisin Seiki Kabushiki Kaisha. Output control apparatus for Stirling engines. 4,677,824, 7-7-87, Cl. 60-521.000.

Hasegawa, Masakazu: *See—*
  Takaoka, Michio; Motai, Tsuneaki; Ono, Motoyuki; Kaji, Isao; Hasegawa, Masakazu; Tan, Masayuki; and Kurata, Masaru, 4,701,117, Cl. 425-116.000.

Hasegawa, Masatake; Kobayashi, Hirotada; Sunazuka, Hideo; Yoshino, Akira; Matsuda, Takao; and Shingo, Yoshioki, to Fujikura Ltd. Flame-retardant composition and flame-retardant cable using same. 4,671,896, 6-9-87, Cl. 252-609.000.

Hasegawa, Masazumi; Arai, Shoji; and Mizoe, Shinya, to Toyo Soda Manufacturing Co., Ltd. Catalyst for producing polyurethane foams coated with skin. 4,701,473, 10-20-87, Cl. 521-118.000.

Hasegawa, Masazumi: *See—*
  Arai, Shoji; Tamano, Yutaka; and Hasegawa, Masazumi, 4,638,016, Cl. 521-129.000.

Hasegawa, Mineo; and Ozaki, Kitao, to Kewpie Kabushiki Kaisha. Apparatus for collecting lysozyme from egg white by adsorption. 4,705,755, 11-10-87, Cl. 435-316.000.

Hasegawa, Noboru: *See—*
  Ueda, Koutarou; Hasegawa, Noboru; Machihara, Akio; Kusaka, Masaharu; Orii, Kohei; and Noguchi, Yoshiro, 4,692,197, Cl. 156-189.000.

Hasegawa, Nobu: *See—*
  Seo, Akira; Kanno, Hideo; Hasegawa, Nobu; Miyagi, Yukio; Nishimura, Akira; Konaka, Shigeo; Ohmi, Tetsuto; Munechika, Yukimi; Uchida, Matazaemon; and Ikeda, Kenichi, 4,636,519, Cl. 514-397.000.

Hasegawa, Norio; Fujino, Toyomi; and Matsubara, Susumu, to Sony Corporation. Disc players fitted for automatic change of discs. 4,701,900, 10-20-87, Cl. 369-36.000.

Hasegawa, Osamu: *See—*
  Ishizaki, Hideki; Hasegawa, Osamu; and Nishimatsu, Masaharu, 4,677,023, Cl. 428-323.000.

Hasegawa, Ryoei: *See—*
  Tsujimura, Osamu; Hasegawa, Ryoei; and Ohkawa, Masayuki, 4,679,968, Cl. 407-114.000.

Hasegawa, Ryuichi; and Hayashi, Kohji, to Mitsubishi Monsanto Chemical Company. Polyester. 4,681,975, 7-21-87, Cl. 560-90.000.

Hasegawa, Ryusuke: *See—*
  Fish, Gordon E.; Hasegawa, Ryusuke; and Buff, Ernest D., 4,634,462, Cl. 65-29.000.

Hasegawa, Sadao: *See—*
  Suzuki, Kengi; Itoh, Tadanao; Mitsuhashi, Hiroshi; Ozawa, Yuichi; Hasegawa, Sadao; and Yamauchi, Takeshi, 4,653,571, Cl. 164-490.000.
  Suzuki, Kengi; Itoh, Tadanao; Mitsuhashi, Hiroshi; Ozawa, Yuichi; Hasegawa, Sadao; and Yamauchi, Takeshi, 4,688,624, Cl. 164-440.000.

Hasegawa, Sakuro: *See—*
  Harada, Susumu; and Hasegawa, Sakuro, 4,704,190, Cl. 162-168.200.
  Ueda, Toshio; Kageno, Kenji; Shimizu, Kiyoshi; Hasegawa, Sakuro; and Harada, Susumu, 4,644,042, Cl. 526-204.000.

Hasegawa, Satoshi, to NEC Corporation. System for carrying out spread spectrum communication through an electric power line. 4,641,322, 2-3-87, Cl. 375-1.000.

Hasegawa, Shigekazu; and Fukui, Tetsu, to Kubota, Ltd. Drive apparatus. 4,637,269, 1-20-87, Cl. 74-335.000.

Hasegawa, Shigekazu; Machida, Satoshi; and Oota, Yoshimi, to Kubota, Ltd. Hydraulic circuit construction for power shift transmission. 4,711,329, 12-8-87, Cl. 192-3.570.

Hasegawa, Shinichi, to Mitsubishi Nuclear Fuel Co., Ltd. Process for manufacturing uranium oxide powder. 4,666,691, 5-19-87, Cl. 423-260.000.

Hasegawa, Shinji; Kando, Yasuhiko; and Nakagomi, Tamihito, to Hitachi, Ltd. Liquid crystal display device. 4,693,562, 9-15-87, Cl. 350-337.000.

Hasegawa, Shinji: *See—*
  Kando, Yasuhiko; Nakagomi, Tamihito; and Hasegawa, Shinji, 4,652,088, Cl. 350-334.000.
  Kando, Yasuhiko; Nakagomi, Tamihito; and Hasegawa, Shinji, 4,653,861, Cl. 350-337.000.
  Kando, Yasuhiko; Nakagomi, Tamihito; Hasegawa, Shinji; and Hanada, Yoshio, 4,653,865, Cl. 350-346.000.
  Kando, Yasuhiko; Nakagomi, Tamihito; and Hasegawa, Shinji, 4,664,482, Cl. 350-346.000.

Hasegawa, Shizuo; and Hayashi, Kuniyoshi, to Canon Kabushiki Kaisha. Original reader with variable magnification and time delay. 4,691,114, 9-1-87, Cl. 250-578.000.

Hasegawa, Shumpei, to Honda Giken Kogyo Kabushiki Kaisha. Intake system for direct fuel injection diesel engine. 4,688,532, 8-25-87, Cl. 123-302.000.

Hasegawa, Tadashi, to Mitsubishi Denki Kabushiki Kaisha. Floppy disk r/w head assembly. 4,710,833, 12-1-87, Cl. 360-105.000.

Hasegawa, Taiji: *See—*
  Tokuyama, Keiichi; Masuda, Mitsuhiro; Igarashi, Osamu; and Hasegawa, Taiji, 4,700,303, Cl. 364-424.000.

Hasegawa, Takahiro; Kashihara, Takanobu; and Nishimura, Akira, to Earth Chemical Company, Limited. Device and method for vaporizing thermally vaporizable composition. 4,663,315, 5-5-87, Cl. 514-86.000.

Hasegawa, Takashi: *See—*
  Matsumura, Toshimi; Hasegawa, Takashi; Hayakawa, Takahiro; Sumitani, Shinya; and Sakakibara, Shuji, 4,667,634, Cl. 123-357.000.
  Matsumura, Toshimi; Sumitani, Shinya; Hayakawa, Takahiro; Hasegawa, Takashi; and Sakakibara, Shuji, 4,705,000, Cl. 123-357.000.
  Nagase, Masaomi; Takemoto, Eiji; Ibuki, Noritaka; and Hasegawa, Takashi, 4,714,068, Cl. 123-506.000.

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  Isono, Haruo; Kusaka, Hideo; and Hasegawa, Takeshi, 4,680,639, Cl. 358-224.000.

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Fukube, Tsugio; Yamashita, Akinori; Hashimoto, Noboru; and Yamamoto, Hiroyuki, 4,656,988, Cl. 123-489.000.

Hamazaki, Takeru; Hashimoto, Noboru; and Shinobu, Okitsugu, 4,655,242, Cl. 137-247.270.

Yamashita, Akinori; Hataoka, Kenji; Hashimoto, Noboru; and Misumi, Masanori, 4,658,792, Cl. 123-478.000.

Hashimoto, Nobuyuki; and Nishio, Shigeru, to Aisin Seiki Kabushiki Kaisha. Air lumbar support device. 4,634,179, 1-6-87, Cl. 297-284.00

Hashimoto, Nobuyuki: *See—*

Ito, Katsu; Shinabe, Munehiro; Miyajima, Akira; Hashimoto, Nobuyuki; Ohno, Hideshi; Tsuzuki, Akira; Morokawa, Shigeru; and Natori, Minoru, 4,663,670, Cl. 358-245.000.

Hashimoto, Norio: *See—*
  Tanaka, Kanou; Konishi, Motofumi; Ando, Yoshio; Iwaya, Toshio; Kotera, Masahide; Hashimoto, Norio; Sugita, Yasutoshi; Sano, Yoshitaka; and Ono, Satoshi, 4,658,299, Cl. 358-256.000.
  Yoshioka, Kiyoharu; Hashimoto, Norio; and Sonobe, Hiraku, 4,700,237, Cl. 358-287.000.

Hashimoto, Osamu. Cutting equipment with rules. 4,706,532, 11-17-87, Cl. 83-563.000.

Hashimoto, Osamu: *See—*
  Morita, Masahiko; and Hashimoto, Osamu, 4,648,916, Cl. 148-128.000.
  Morita, Masahiko; Hashimoto, Osamu; and Tanaka, Tomoo, 4,686,471, Cl. 324-243.000.
  Satoh, Susumu; Suzuki, Hideo; Obara, Takashi; Nishida, Minoru; and Hashimoto, Osamu, 4,708,748, Cl. 148-2.000.
  Yanagi, Kenichi; Makihara, Katsumi; Fukushima, Takeo; Hashimoto, Osamu; and Iiaa, Sachihiro, 4,644,667, Cl. 34-54.000.

Hashimoto, Ritsuo: *See—*
  Matsumoto, Hiromichi; and Hashimoto, Ritsuo, 4,639,889, Cl. 364-900.000.
  Niwa, Kensuke; Fujita, Hisayoshi; Saito, Yoshihiko; Makihara, Hiroshi; Hashimoto, Ritsuo; Hoshi, Younosuke; and Marayama, Katsutoshi, 4,705,654, Cl. 261-128.000.

Hashimoto, Sadakatsu; and Kamei, Fumio, to Sharp Kabushiki Kaisha. Method for maintaining display/print mode in display printer. 4,709,349, 11-24-87, Cl. 364-900.000.

Hashimoto, Sadakatsu: *See—*
  Satoh, Masaharu; and Hashimoto, Sadakatsu, 4,706,221, Cl. 365-222.000.

Hashimoto, Seiji, to Canon Kabushiki Kaisha. Image sensing device. 4,652,927, 3-24-87, Cl. 358-213.000.

Hashimoto, Seiji; and Sakai, Shinji, to Canon Kabushiki Kaisha. Color information detecting device. 4,660,075, 4-21-87, Cl. 358-29.000.

Hashimoto, Seiji; and Okino, Tadashi, to Canon Kabushiki Kaisha. Image pickup apparatus. 4,689,686, 8-25-87, Cl. 358-213.260.

Hashimoto, Seiji; Kinoshita, Takao; and Tanaka, Nobuyoshi, to Canon Kabushiki Kaisha. Image pickup apparatus. 4,712,135, 12-8-87, Cl. 358-213.220.

Hashimoto, Seiji: *See—*
  Ezaki, Masami; Hashimoto, Seiji; Komori, Tadaaki; Umehara, Kazuyoshi; and Kohsaka, Masanobu, 4,654,211, Cl. 424-116.000.
  Kawayama, Tetsuro; Tanaka, Nobuyoshi; and Hashimoto, Seiji, 4,668,975, Cl. 358-44.000.
  Sakai, Shinji; and Hashimoto, Seiji, 4,644,403, Cl. 358-213.000.
  Takayama, Tsutomu; Hashimoto, Seiji; Kaji, Toshio; Suzuki, Masao; and Tojo, Akihiko, 4,682,232, Cl. 358-172.000.

Hashimoto, Shigeru: *See—*
  Ogura, Tokihiko; and Hashimoto, Shigeru, 4,670,799, Cl. 360-66.000.

Hashimoto, Shingo; Sunaga, Kazuyuki; and Kasugai, Kaoru, to Citizen Watch Co., Ltd. Gimbal spring supported magnetic recording head. 4,682,254, 7-21-87, Cl. 360-103.000.

Hashimoto, Shinichi: *See—*
  Imai, Kazuo; Niigata, Kunihiro; Fujikura, Takashi; Hashimoto, Shinichi; and Takenaka, Toichi, 4,703,063, Cl. 514-603.000.
  Murakami, Reiji; Hashimoto, Shinichi; Shimono, Mamoru; and Ide, Fumito, 4,682,769, Cl. 271-10.000.

Hashimoto, Shintaro, to Sharp Kabushiki Kaisha. Dot matrix display with driver circuit on the same plane. 4,646,074, 2-24-87, Cl. 340-718.000.

Hashimoto, Shintaro; Morita, Akitaka; and Tsuda, Hiroshi, to Sharp Kabushiki Kaisha. Speech synthesizer output device. 4,706,288, 11-10-87, Cl. 381-51.000.

Hashimoto, Shintaro; Masuzawa, Sigeaki; Kunita, Hisao; Inoue, Tomohiro; and Nishimura, Kosuke, to Sharp Kabushiki Kaisha. Playback operation circuit in synthetic-speech calculator. 4,707,794, 11-17-87, Cl. 364-513.500.

Hashimoto, Shoji, to Dowa Mining Co., Ltd. Sliding wax. 4,673,597, 6-16-87, Cl. 427-374.400.

Hashimoto, Shunichi: *See—*
  Nagano, Eiki; Hashimoto, Shunichi; Yoshida, Ryo; Matsumoto, Hiroshi; and Kamoshita, Katsuzo, 4,670,046, Cl. 71-96.000.
  Nagano, Eiki; Yoshida, Ryo; Matsumoto, Hiroshi; Hashimoto, Shunichi; and Kamoshita, Katsuzo, 4,684,397, Cl. 71-96.000.
  Nagano, Eiki; Yoshida, Ryo; Matsumoto, Hiroshi; Hashimoto, Shunichi; and Kamoshita, Katsuzo, 4,709,045, Cl. 548-513.000.

Hashimoto, Sumio: *See—*
  Uehara, Makoto; and Hashimoto, Sumio, 4,637,691, Cl. 350-432.000.

Hashimoto, Susumu, to Tokyo Shibaura Denki Kabushiki Kaisha. Sorting and stacking apparatus. 4,653,647, 3-31-87, Cl. 209-534.000.

Hashimoto, Susumu: *See—*
  Ishikawa, Kiyotsugu; Takamura, Tohru; Sone, Yoshiaki; Hashimoto, Susumu; and Hiramoto, Masao, 4,670,777, Cl. 358-48.000.

Hashimoto, Tadanori; Hama, Masaaki; and Kobayashi, Osamu, to Sumitomo Chemical Company, Limited. Method for producing an inorganic sintered body. 4,649,003, 3-10-87, Cl. 264-63.000.

Hashimoto, Tadashi, to Mitsubishi Plastics Industries, Limited. Process for producing a tubular casing. 4,643,788, 2-17-87, Cl. 156-203.000.

Hashimoto, Taiki: *See—*
  Kuroda, Hiroshi; Nishimura, Tsukasa; Nishimura, Masakatsu; Hashimoto, Taiki; Kanda, Osamu; Nozawa, Shigeru; and Shibata, Kenji, 4,687,649, Cl. 423-242.000.

Hashimoto, Takafumi; Kamanaka, Yoshihide; and Ashikaga, Tadashi, to Kabushiki Kaisha Meidensha. Method of operating a secondary battery to recondition the battery. 4,691,158, 9-1-87, Cl. 320-14.000.

Hashimoto, Takao, to Kubota, Ltd. Separation preventive pipe joint. 4,647,083, 3-3-87, Cl. 285-321.000.

Hashimoto, Takao: *See—*
  Kasai, Tatsushi; Niikura, Tatsuo; Sato, Masanori; Hashimoto, Takao; and Yamashita, Akiya, 4,689,146, Cl. 210-197.000.
  Kasai, Tatsushi; Niikura, Tatsuo; Sato, Masanori; Hashimoto, Takao; and Yamashita, Akiya, 4,710,215, Cl. 62-532.000.

Hashimoto, Takashi: *See—*
  Nozaki, Takashi; and Hashimoto, Takashi, 4,710,971, Cl. 455-179.000.
  Tsurumizu, Takashi; Hashimoto, Takashi; and Takahashi, Takashi, 4,661,350, Cl. 424-92.000.

Hashimoto, Takatsugu; Maehara, Akihiro; Tomita, Seisuke; Funahashi, Yuichi; Watanabe, Junichiro; Sugiura, Kazuo; and Matsumoto, Hironori, to Bridgestone Corp.; Toshiba Silicone Co., Ltd.; and Japan Synthetic Rubber Co., Ltd. Rubber compounds. 4,714,734, 12-22-87, Cl. 524-496.000.

Hashimoto, Takatsugu: *See—*
  Tomita, Seisuke; and Hashimoto, Takatsugu, 4,710,541, Cl. 525-104.000.

Hashimoto, Takayoshi, to Takasago Thermal Engineering Co., Ltd. Clean room system. 4,693,175, 9-15-87, Cl. 98-31.600.

Hashimoto, Takeji; and Murayama, Minoru, to Dainippon Screen Seizo Kabushiki Kaisha. Coordinate plotter with automatic punching device. 4,635,365, 1-13-87, Cl. 33-1.00M.

Hashimoto, Takeji; and Watanabe, Kenji, to Dainippon Screen Mfg. Co., Ltd. Method for holding hard plate under suction and soft sheet suitable for use in the practice of the method. 4,675,242, 6-23-87, Cl. 428-131.000.

Hashimoto, Takeji; and Murayama, Minoru, to Dainippon Screen Seizo Kabushiki Kaisha. Sheet feeding apparatus for coordinate plotter. 4,699,370, 10-13-87, Cl. 271-98.000.

Hashimoto, Takeo: *See—*
  Takeshita, Kaneyoshi; and Hashimoto, Takeo, 4,663,771, Cl. 377-58.000.

Hashimoto, Tamotsu: *See—*
  Muto, Kenji; Sugaya, Toru; Kuroda, Tokuyuki; Hashimoto, Tamotsu; Yamada, Koji; Nakamizo, Nobuhiro; and Watanabe, Minoru, 4,639,522, Cl. 546-194.000.
  Yamada, Koji; Hashimoto, Tamotsu; Naruse, Masao; Murayama, Yo; and Niino, Hideki, 4,705,805, Cl. 514-548.000.

Hashimoto, Terukuni: *See—*
  Yamamoto, Shigehiro; Hashimoto, Terukuni; Kobayashi, Mitsuo; Iwaki, Tsugishige; Tamura, Katsushige; and Saijo, Hideo, 4,702,872, Cl. 264-114.000.

Hashimoto, Tetsuro: *See—*
  Minowa, Toshio; Hashimoto, Tetsuro; Kuroda, Kohji; and Nakayama, Kazutaka, 4,697,885, Cl. 350-334.000.

Hashimoto, Toshie: *See—*
  Sakaguchi, Haruo; Suehiro, Teruyoshi; Nagai, Kunio; Hashimoto, Toshie; Nishiyama, Hisaki; and Mohri, Masakazu, 4,674,556, Cl. 164-454.000.
  Sakaguchi, Haruo; Suehiro, Teruyoshi; Nagai, Kunio; Hashimoto, Toshie; Nishiyama, Hisaki; and Mohri, Masakazu, 4,694,885, Cl. 164-416.000.
  Sakaguchi, Haruo; Suehiro, Teruyoshi; Terada, Kohsuke; Ueda, Minoru; Nagai, Kunio; Hashimoto, Toshie; Nishiyama, Hisaki; and Mohri, Masakazu, 4,703,791, Cl. 164-417.000.

Hashimoto, Toshihiko: *See—*
  Miyadera, Tetsuo; Sugimura, Yukio; Tanaka, Teruo; Hashimoto, Toshihiko; Iino, Kimio; and Sugawara, Shinichi, 4,639,441, Cl. 514-195.000.

Hashimoto, Toshitomo: *See—*
  Tabata, Yusuke; Hayasaka, Eiji; Hashimoto, Toshitomo; Horima, Hiroaki; Omori, Toshiyuki; and Kurosawa, Akira, 4,662,712, Cl. 350-96.230.

Hashimoto, Tsutomu: *See—*
  Tokunaga, Kuniyuki; and Hashimoto, Tsutomu, 4,686,269, Cl. 526-336.000.

Hashimoto, Yasuaki, to Usui Kokusai Sangyo Kabushiki Kaisha. Connector head construction for high-pressure fuel injection tubes. 4,665,876, 5-19-87, Cl. 123-468.000.

Hashimoto, Yasuhiko, to Mitsubishi Denki Kabushiki Kaisha. Air conditioner. 4,667,483, 5-26-87, Cl. 62-262.000.

Hashimoto, Yasuhiko: *See—*
  Katayama, Kaneo; and Hashimoto, Yasuhiko, 4,679,494, Cl. 98-38.600.

Hashimoto, Yasuichi, to Kabushiki Kaisha Toshiba. Magnetic head control apparatus. 4,636,883, 1-13-87, Cl. 360-78.000.

Hashimoto, Yasuo: *See—*
  Ishino, Ken; Hashimoto, Yasuo; Hayashi, Katuhiko; and Misawa, Nobutaka, 4,689,460, Cl. 219-10.55D.
  Narumiya, Yoshikazu; Hashimoto, Yasuo; Yui, Hiroshi; and Kageyama, Yoshiteru, 4,690,778, Cl. 252-506.000.

Hashimoto, Yasuyuki, to Kabushiki Kaisha Daikin Seisakusho. Damper disc. 4,690,660, 9-1-87, Cl. 464-68.000.

Hashimoto, Yasuyuki: *See—*
  Kayanoki, Katsuhiko; Teramachi, Kazuo; Ono, Seigo; and Hashimoto, Yasuyuki, 4,650,053, Cl. 192-106.200.

Hashimoto, Yoshiyuki; Toida, Tomohiro; Sekine, Kazunori; Saito, Minoru; Kawashima, Takuji; and Kuboyama, Morio, to Morinaga Milk Industry Co., Ltd. Antitumor agent and process for manufacturing said agent. 4,645,667, 2-24-87, Cl. 424-92.000.

Hashimoto, Yukio: *See—*

Hirata, Tadashi; Hashimoto, Yukio; Ogasa, Takehiro; Kobayashi, Shigeru; Sato, Akira; Sato, Kiyoshi; and Takasawa, Seigo, 4,663,450, Cl. 540-205.000.

Hashio, Masanori: *See—*

Murai, Masami; Hashio, Masanori; Tsuyuki, Yousuke; and Kaneko, Tsutomu, 4,675,814, Cl. 364-300.000.

Hashish, Mohamed; and Olsen, John H., to Flow Industries, Inc. Swivel fitting arrangement for use in a pressurized fluid line. 4,669,760, 6-2-87, Cl. 285-272.000.

Hashish, Mohamed A.; Kirby, Michael J.; and Pao, Yih-Ho, to Flow Industries, Inc. Method and apparatus for forming a high velocity liquid abrasive jet. 4,648,215, 3-10-87, Cl. 51-439.000.

Hashish, Mohammed A., to Flow Systems, Inc. Two stage waterjet and abrasive jet catcher. 4,698,939, 10-13-87, Cl. 51-410.000.

Hashishita, Ryuichi, to NEC Corporation. Semiconductor integrated circuit having complementary field effect transistors. 4,716,450, 12-29-87, Cl. 357-42.000.

Hashiue, Masakazu; and Ogawa, Masashi, to Fuji Photo Film Co., Ltd. Supported medium for electrophoresis and supports therefor. 4,640,759, 2-3-87, Cl. 204-299.00R.

Hashiue, Masakazu; Ogawa, Masashi; and Nishio, Daijiro, to Fuji Photo Film Co., Ltd. Means for electrophoresis showing reduced smiling effect. 4,650,556, 3-17-87, Cl. 204-182.700.

Hashizume, Kenichi: *See—*

Ebisawa, Makoto; Shindo, Shuko; Hashizume, Kenichi; and Isa, Isao, 4,688,153, Cl. 361-433.000.

Hashizume, Kenji: *See—*

Okamura, Masatoshi; Shiba, Haruo; Hashizume, Kenji; and Sakata, Yoshiya, 4,682,259, Cl. 360-132.000.

Hashizume, Kiyozo: *See—*

Higaya, Toshiaki; Ogura, Masaaki; Yano, Takato; Hashizume, Kiyozo; Ogawa, Toshiyuki; and Seko, Nachio, 4,640,608, Cl. 355-15.000.

Hashizume, Masahiro: *See—*

Morimoto, Kiyoshi; Kawamoto, Masuo; Kobayashi, Hiroshi; Hashizume, Masahiro; Tsudaka, Hideaki; and Kimura, Hiroshi, 4,692,019, Cl. 355-8.000.

Takemura, Yoshinobu; Kawamoto, Masuo; Hashizume, Masahiro; and Nagata, Katsumi, 4,659,214, Cl. 355-75.000.

Hashizume, Masao, to Kumahira Safe Co., Inc. Locking device for a door on safe or the like apparatus. 4,640,111, 2-3-87, Cl. 70-314.000.

Hashizume, Masatora; Kudoh, Eiichi; Fujiwara, Setuzo; and Shiomi, Hitomi, to Kanebo Bell-Touch, Ltd. Fabric fastener. 4,707,893, 11-24-87, Cl. 24-446.000.

Hashizume, Motomu: *See—*

Takamizawa, Takashi; aad Hashizume, Motomu, 4,646,265, Cl. 365-104.000.

Hashizume, Takuji: *See—*

Yamane, Takehiko; Hashizume, Takuji; Yamashita, Katsuji; and Watanabe, Kiyoshi, 4,690,919, Cl. 514-183.000.

Hasimoto, Hirofumi: *See—*

Iwao, Nomura; Masuyama, Takayuki; Tanigawa, Yasuo; and Hasimoto, Hirofumi, 4,702,666, Cl. 414-730.000.

Nomura, Iwao; Masuyama, Takayuki; Tanigawa, Yasuo; and Hasimoto, Hirofumi, 4,636,136, Cl. 414-730.000.

Hasircoglu, Alexander W., to Du Pont de Nemours, E. I., and Company. Ejecting latch for electrical connectors. 4,640,565, 2-3-87, Cl. 339-45.00M.

Hasircoglu, Alexander W., to Du Pont de Nemours, E. I., and Company. Multiconductor electrical cable terminations and methods and apparatus for making same. 4,679,868, 7-14-87, Cl. 439-495.000.

Hasircoglu, Alexander W., to Du Pont de Nemours, E. I., and Company. Electrical connector with switch. 4,687,888, 8-18-87, Cl. 200-51.100.

Hasircoglu, Alexander W., to Du Pont de Nemours, E. I., and Company. Insulation displacement coaxial cable termination and method. 4,697,862, 10-6-87, Cl. 439-404.000.

Haskel, Inc.: *See—*

Vossbrinck, William J. H., 4,708,036, Cl. 81-57.380.

Haskell, Jacob D.; and Sander, Craig S., to Advanced Micro Devices, Inc. Dynamic random access memory cell having a charge amplifier. 4,677,589, 6-30-87, Cl. 365-149.000.

Haskell, Jacob D., to Advanced Micro Devices, Inc. Topside sealing of integrated circuit device. 4,686,559, 8-11-87, Cl. 357-54.000.

Haskell, Monty E.: *See—*

Burt, Daryl D.; and Haskell, Monty E., 4,674,340, Cl. 73-862.230.

Haskell, Richard E.: *See—*

Grant, Ralph M.; Haskell, Richard E.; Paskus, Anthony; Windeler, Stanley R.; and Wright, Forrest S., 4,690,552, Cl. 356-35.500.

Haskell, Weston W.; and Ngan, Danny Y., to Shell Oil Company. Slurry treatment of a gas oil or kerosene feed stock for a steam cracking procedure. 4,634,516, 1-6-87, Cl. 208-91.000.

Haskett, Thomas E.: *See—*

Jorgensen, Jens L.; Haskett, Thomas E.; and Rueb, John T., 4,699,842, Cl. 428-343.000.

Haskins, Carolyn R.: *See—*

Haskins, L. Arthur; and Haskins, Carolyn R., 4,653,737, Cl. 269-13.000.

Haskins, L. Arthur; and Haskins, Carolyn R. Food trimming and preparation device. 4,653,737, 3-31-87, Cl. 269-13.000.

Haskins, Peter J.: *See—*

Dadley, David A.; and Haskins, Peter J., 4,693,181, Cl. 102-307.000.

Haskins, Timothy B.; Goebel, Franz; Batson, David C.; and Zuffante, Charles R., to GTE Government Systems Corporation. Electrochemical cell with interlocking anode. 4,684,586, 8-4-87, Cl. 429-115.000.

Haslanger, Martin F.: *See—*

Hall, Steven E.; Haslanger, Martin F.; and Varma, Ravi K., 4,661,506, Cl. 511-382.000.

Hasle Klinger- & Chamottestensfabrik A/S: *See—*

Christiansen, Hans A., 4,651,783, Cl. 138-107.000.

Haslegrave, John A.; and Sullivan, Daniel S., to Exxon Chemical Patents Inc. N, S containing corrosion inhibitors. 4,673,436, 6-16-87, Cl. 106-14.130.

Haslegrave, John A.: *See—*

McDougall, Lee A.; Newlove, John C.; and Haslegrave, John A., 4,670,166, Cl. 252-8.552.

Hasler AG Bern: *See—*

Berger, Erwin; and Grunig, Rudolf, 4,639,581, Cl. 235-101.000.

Marbet, Hans, 4,649,231, Cl. 178-2.00B.

Wagner, Alois, 4,692,127, Cl. 464-119.000.

Hasler, Georg; and Walz, Rudiger, to Hafele KG. Retractable ironing board construction. 4,637,321, 1-20-87, Cl. 108-72.000.

Hasler, Hans: *See—*

Bossart, Erwin; and Hasler, Hans, 4,705,232, Cl. 242-150.00R.

Hasler, Rolf; and Palacin, Francis, to Sandoz Ltd. Exhaust dyeing of cellulosic substrates with reactive dyes controlled simultaneous addition of salt and alkali. 4,645,510, 2-24-87, Cl. 8-400.000.

Hasler, Ross E. Hand propelled rotary cultivator. 4,667,745, 5-26-87, Cl. 172-42.000.

Haslett, Robert A.: *See—*

Edelstein, Fred; Haslett, Robert A.; Kosson, Robert L.; and Ha well, William, 4,685,512, Cl. 165-104.140.

Hasley, Lloyd A.; and Raamot, Jaan, to American Telephone and Telegraph Company, AT&T Information Systems Inc. Multiphase packet switching system. 4,656,627, 4-7-87, Cl. 370-85.000.

Hasley, Lloyd A.; and Raamot, Jaan, to American Telephone and Telegraph Company, AT&T Information Systems Inc. Clock recovery circuit. 4,694,196, 9-15-87, Cl. 307-269.000.

Hasley, Lloyd A., to American Telephone and Telegraph Company, AT&T Information Systems Inc. Variable length packet switching system. 4,704,606, 11-3-87, Cl. 340-825.500.

Haslim, Leonard A.; and Lee, Robert D., to United States of America National Aeronautics and Space Administration. Electro-expulsive separation system. 4,690,353, 9-1-87, Cl. 244-134.00D.

Haslop, John M.: *See—*

Whitehead, Colin J.; Bratchley, Robin; and Haslop, John M. 4,645,240, Cl. 283-74.000.

Haslund, Ralph L., to Boeing Company, The. Fluid control apparatus and method utilizing cellular array containing mini-vortex flow patterns. 4,671,474, 6-9-87, Cl. 244-199.000.

Haslund, Ralph L., to Boeing Company, The. Apparatus and method for providing an aero-optical interface. 4,703,904, 11-3-87, Cl. 24 1.00R.

Hass, D. Kendall, to International Minerals & Chemical Corp. Quino linedione compounds useful for controlling coccidiosis. 4,659,71 4-21-87, Cl. 514-249.000.

Hass, Gary R.: *See—*

Hayes, Michael E.; Hass, Gary R.; Sharpe, Robert; Nestaas, Eri and Ostrovsky, Mikhail V., 4,706,749, Cl. 166-267.000.

Hass, Hansjurgen: *See—*

Burkhardt, Rudolf; and Hass, Hansjurgen, 4,645,392, C 405-264.000.

Hass, Robert H., to Union Oil Company of California. Process fo removing sox and nox compounds from gas streams. 4,675,16 6-23-87, Cl. 423-563.000.

Hassall, Cedric H.; Lawton, Geoffrey; and Redshaw, Sally, to Ho mann-La Roche Inc. Pyridazo-diazepines, diazocines, and -tria pines having anti-hypertensive activity. 4,692,438, 9-8-87, C 514-183.000.

Hassall, Cedric H.: *See—*

Attwood, Michael R.; Hassall, Cedric H.; Lambert, Robert Lawton, Geoffrey; and Redshaw, Sally, 4,658,024, 540-500.000.

Hassall, James B.: *See—*

Brahm, Leroy D.; Brown, Frank C.; Ciarlone, David F.; Dedr Mark R.; Hassall, James B.; and Salva, Fedor M., 4,699,752, 376-260.000.

Hassan, Morris, to Chrysler Motors Corporation. Deflection jo bumper for strut suspension. 4,681,304, 7-21-87, Cl. 267-8.00R.

Hasse, Erich, to ASCA Equipamentos Industriais LTDA. Low-pr encapsulated diaphragm valve for the thermal control of conde water drainage. 4,634,048, 1-6-87, Cl. 236-58.000.

Hasse, Margaret H., to Procter & Gamble Company, The. Waste tainment garment having elasticized barrier wall leg flaps. 4,65 4-14-87, Cl. 604-385.00A.

Hasse, Margaret H.; and Steinhardt, Mark J., to Procter & G Company, The. Disposable diaper having density and basis w profiled absorbent core. 4,685,915, 8-11-87, Cl. 604-378.000.

Hasse, Margaret H.: *See—*

Toussant, John W.; and Hasse, Margaret H., 4,699,62 604-389.000.

Hassel, David R.: *See—*

Rupprecht, Georg; and Hassel, David R., 4,696,181, Cl. 73-5

Hassel, Tillmann; Muller, Hanns P.; and Boshagen, Horst, to Aktiengesellschaft. Cyclic ethers which are substituted in a α-p by an isocyanide-dichloride group, and a process for their p tion. 4,659,844, 4-21-87, Cl. 549-424.000.

Hasselbach, Petra: *See—*
  Holdt, Bernd-Dieter; Menke, Ronald; Praus, Gerd; and Hasselbach, Petra, 4,683,072, Cl. 252-102.000.

Hasselbring, Wayne C. Method and device for removing hydrogen sulfide from well water with in situ adsorbent regeneration. 4,675,115, 6-23-87, Cl. 210-673.000.

Hassell, David A., to Cornelius Company, The. Multiple flavor post-mix beverage dispensing apparatus. 4,658,988, 4-21-87, Cl. 222-129.100.

Hassellof, Ake; Lenasson, Carl-Gustaf; and Nordhall, Lennart, to ASEA Aktiebolag. Method for manufacturing railway wheels. 4,638,540, 1-27-87, Cl. 29-168.000.

Hasselmann, Detlev E. M. System and method for automatically monitoring liquid volume changes in storage tanks. 4,672,842, 6-16-87, Cl. 73-49.200.

Hasselmann, Heinz; Muenzebrock, Anton; and Pfannkuche, Heinz, to Mannesmann AG. Signal and current transmission system with transducers spaced by the collector lines. 4,700,024, 10-13-87, Cl. 191-45.00A.

Hasselmann, Heinz: *See—*
  Dietrich, Udo; and Hasselmann, Heinz, 4,653,407, Cl. 105-148.000.

Hassenfelt, Harold E., Jr. Biscuit cutting apparatus. 4,648,300, 3-10-87, Cl. 83-762.000.

Hassenpflug, Wolfgang; and Schwable, Rainer, to Litef GmbH. Method for determining the horizontal airspeed of helicopters in low speed ranges. 4,702,106, 10-27-87, Cl. 73-181.000.

Hassfurther, Karl: *See—*
  Steven, Josef; and Hassfurther, Karl, 4,705,663, Cl. :76-442.000.

Hassig, Alfred, to Central Laboratory of the Swiss Red Cross Blood Transfusion Service. Treatment of chronic inflammatory disease with polyvalent immunoglobulins. 4,676,982, 6-30-87, Cl. 424-85.000.

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  Stich, Bodo; Hassler, Ernst; and Cyphelly, Ivan J., 4,664,145, Cl. 137-580.000.

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  Tanabe, Yoshiaki; Katayama, Akira; and Hasuda, Masanori, 4,657,366, Cl. 354-246.000.

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Hasumi, Hiroaki: *See—*
  Fujisawa, Yoichi; and Hasumi, Hiroaki, 4,662,470, Cl. 180-219.000.

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Hasumi, Shunji: *See—*
  Kagatani, Seiya; Hasumi, Shunji; Sonobe, Takashi; and Aruga, Masayoshi, 4,690,952, Cl. 514-808.000.

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  Grabitz, Ernst B., 4,695,549, Cl. 435-267.000.

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Hata, Hideo: *See—*
  Oda, Kazuyuki; Yui, Yoshikiyo; Kataoka, Yoshiharu; and Hata, Hideo, 4,714,331, Cl. 353-122.000.
  Yoshimura, Isao; Hata, Hideo; and Kaneko, Takashi, 4,701,496, Cl. 525-240.000.

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  Tsubouchi, Toshiyuki; and Hata, Hitoshi, 4,684,754, Cl. 585-21.000.
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Hata, Kenji: *See—*
  Miyajima, Nobuyuki; Hata, Kenji; and Nakayama, Junichi, 4,710,313, Cl. 252-105.000.

Hata, Koichi, to Honda Giken Kogyo Kabushiki Kaisha. Mechanism for limiting angular movement in steering systems for motor vehicles. 4,708,363, 11-24-87, Cl. 280-771.000.

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  Nakayama, Akira; Nakamura, Katsuya; Hata, Kotaro; and Yamamoto, Makoto, 4,707,411, Cl. 428-413.000.

Hata, Mamoru, to NEC Corporation. Cordless telephone. 4,689,812, 8-25-87, Cl. 379-62.000.

Hata, Ryosuke; Yamanouchi, Shosuke; Hirose, Masayuki; Kuwabara, Hidemitsu; Mizumoto, Yasuharu; and Hagiuda, Yasuhiro, to Sumitomo Electric Industries, Ltd. Insulating polyolefin laminate paper and method for producing same, and electric power supply cable. 4,673,607, 6-16-87, Cl. 428-172.000.

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Hata, Ryozo: *See—*
  Yasuoka, Junichi; Kamiyama, Sumio; Ashida, Kiyomi; and Hata, Ryozo, 4,678,511, Cl. 75-251.000.

Hata, Seiji: *See—*
  Nishida, Yoshie; Hata, Seiji; and Miyakawa, Akira, 4,680,802, Cl. 382-8.000.

Hata, Stephen S.: *See—*
  Haunschild, Susan M.; Hata, Stephen S.; and Wismer, Shirlee A., 4,690,681, Cl. 604-396.000.

Hata, Takehisa; Kanagawa, Nobuto; Morishita, Takashi; and Suzuki, Toshiyuki, to Fujisawa Pharmaceutical Co., Ltd.; and Morishita Jintan Co., Ltd. Type soft capsule. 4,690,816, 9-1-87, Cl. 424-456.000.

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  Morishita, Takashi; Hata, Takehisa; Mori, Mitio; and Tanoue, Shohachi, 4,695,466, Cl. 424-456.000.

Hata, Takeki: *See—*
  Imaike, Sekiji; Hata, Takeki; and Yamazaki, Norio, 4,704,873, Cl. 62-64.000.

Hata, Tomihira: *See—*
  Takahashi, Haruji; Goto, Shigeo; Takata, Syuichi; Shibata, Mitsuaki; and Hata, Tomihira, 4,661,171, Cl. 148-6.350.

Hata, Yasuhisa; Hatimaki, Takeshi; and Ogura, Satoshi, to Nippon Air Brake Co., Ltd. Railroad car air compressor unit. 4,696,626, 9-29-87, Cl. 417-312.000.

Hata, Yoshitaka: *See—*
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Hata, Yujiro, to Fujitsu Limited. Tape draw-out mechanism. 4,697,215, 9-29-87, Cl. 360-95.000.

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Hatabe, Yukio: *See—*

Kimura, Yoshikazu; Sho, Ikuo; and Hatabe, Yukio, 4,698,569, Cl. 318-567.000.

Komatsubara, Shoji; Hatabe, Yukio; Horikawa, Tooru; Murasawa, Sadao; and Murakami, Hajime, 4,682,881, Cl. 355-10.000.

Hatada, Kenzo, to Matsushita Electric Industrial Co., Ltd. Method of bonding semiconductor devices together. 4,693,770, 9-15-87, Cl. 156-151.000.

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Hatagawa, Toyotsugu: *See—*

Ueda, Shigeki; Hatagawa, Toyotsugu; and Kasai, Isao, 4,686,356, Cl. 219-482.000.

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Onogi, Toshiro; Hatakawa, Mamoru; and Fujimoto, Hiroaki, 4,658,375, Cl 364-900.000.

Hatakenaka, Masato, to Nissan Motor Co., Ltd. Crankcase emission control system for an internal combustion engine. 4,637,367, 1-20-87, Cl. 123-572.000.

Hatakenaka, Tsukasa, to Omron Tateisi Electronics Co. High speed response temperature sensor. 4,688,949, 8-25-87, Cl. 374-183.000.

Hatakeyama, Hideharu; and Takahashi, Hidenao, to Sanden Corporation. Piston ring for a piston in a refrigerant compressor. 4,697,992, 10-6-87, Cl. 417-269.000.

Hatakeyama, Hiroshi; Ogawa, Masayuki; Matsumura, Kozo; and Nakagawa, Eiji, to Nissha Printing Co., Ltd. Production of transparent electrode substrate. 4,663,192, 5-5-87, Cl. 427-108.000.

Hatakeyama, Iwao: *See—*

Ishii, Osamu; Yoshimura, Fumikatsu; and Hatakeyama, Iwao, 4,642,245, Cl. 427-47.000.

Hatakeyama, Keiji: *See—*

Taya, Akira; Narita, Kazuo; Hagiwara, Yasuhiko; and Hatakeyama, Keiji, 4,663,563, Cl. 313-487.000.

Hatakeyama, Mikio, to NEC Corporation. Method for producing resin-molded semiconductor device having heat radiating plate embedded in the resin. 4,649,637, 3-17-87, Cl. 29-588.000.

Hatakeyama, Sakichi; and Takahashi, Hiroshi, to Honda Giken Kogyo Kabushiki Kaisha. Transmission for self-propelled working vehicles. 4,683,766, 8-4-87, Cl. 74-333.000.

Hatakeyama, Takanobu: *See—*

Hokari, Sadao; Hori, Takamasa; Komuro, Katsu; Hatakeyama, Takanobu; Narita, Toshiroo; Katayama, Yasunori; and Arahori, Noboru, 4,661,757, Cl. 318-798.000.

Hatakeyama, Takuya; and Ohga, Shinji, to Uro Denshi Kogyo Kabushiki Kaisha. Connector for television distribution equipment. 4,713,024, 12-15-87, Cl. 439-555.000.

Hatakeyama, Tetsuo; Uera, Yoshinori; and Nagao, Nobuaki, to Kabushikigaisha Tokyo Kikai Seisakusho. Roll core holding device. 4,715,553, 12-29-87, Cl. 242-68.400.

Hatakeyama, Toshio; and Yoshio, Toshihiko, to Honda Giken Kogyo Kabushiki Kaisha. Spacer for furnace brazing having low wettability coating thereon. 4,637,960, 1-20-87, Cl. 428-469.000.

Hatakeyama, Yasuhiko; and Nagashima, Shigeo, to Hitachi, Ltd. Vector processor having pair process mode and single process mode. 4,641,275, 2-3-87, Cl. 364-900.000.

Hatakeyama, Yasuhiko; and Murayama, Hiroshi, to Hitachi, Ltd. Pipeline arithmetic apparatus. 4,658,355, 4-14-87, Cl. 364-200.000.

Hatakeyama, Yoshiharu; and Ishikawa, Tatsuo, to Yoshida Industry Co., Ltd. Tube container for receiving semifluid material. 4,635,826, 1-13-87, Cl. 222-147.000.

Hatakoshi, Makoto: *See—*

Kisida, Hirosi; Nishida, Sumio; and Hatakoshi, Makoto, 4,714,706, Cl. 514-345.000.

Hatala, Robert W.: *See—*

Brown, Edgar E.; and Hatala, Robert W., 4,562,951, Cl. 148-13.000.

Hatamian, Mehdi: *See—*

Budrikis, Zigmantas L.; Hatamian, Mehdi; Kubik, Peter S.; and Netravali, Arun N., 4,705,942, Cl. 250-227.000.

Hatamoto, Toshihiro: *See—*

Maeda, Hirofumi; Nakamura, Kyoichi; and Hatamoto, Toshihiro, 4,686,087, Cl. 422-133.000.

Hatamura, Koichi; Hiraoka, Tetsuo; and Asanomi, Koji, to Mazda Motor Corporation. Intake system for V-type engine. 4,649,871, 3-17-87, Cl. 123-52.0MV.

Hatamura, Koichi; and Asanomi, Koji, to Mazda Motor Corporation. Intake arrangement for internal combustion engine. 4,702,207, 10-27-87, Cl. 123-302.000.

Hatamura, Koichi: *See—*

Hiraoka, Tetsuo; Hatamura, Koichi; and Yamamoto, Sigeyasu, 4,686,944, Cl. 123-52.0MV.

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Hatamura, Yotaro. Load sensor. 4,671,118, 6-9-87, Cl. 73-862.040.

Hatamura, Yotaro; Ono, Kozo; Takada, Ryuji; and Kusaki, Takami, to Hatamura, Yotaro; and Hitachi Construction Machinery Co., Ltd. Multi-axis load sensor. 4,674,339, 6-23-87, Cl. 73-862.040.

Hatamura, Yotaro; and Ono, Kozo, to Hatamura, Yotaro; and Hitachi Construction Machinery Co., Ltd. Fine positioning device. 4,686,440, 8-11-87, Cl. 318-646.000.

Hatamura, Yotaro. Multi-axis load sensor. 4,712,431, 12-15-87, Cl 73-862.040.

Hatamura, Yotaro: *See—*

Nagao, Takaaki; Hatamura, Yotaro; and Ono, Kozo, 4,666,352, Cl 409-153.000.

Hatanai, Takashi; Nakashima, Keishi; and Mukasa, Koichi, to Alps Electric Co., Ltd. Vertical recording magnetic head having single core body bonded with main magnetic pole in guard layer. 4,638,391, 1-20-87, Cl. 360-125.000.

Hatanai, Takashi; Mukasa, Koichi; Nakashima, Keishi; and Sato, Hiroshi, to Alps Electric Co., Ltd. Recording medium for perpendicular magnetization. 4,657,812, 4-14-87, Cl. 428-328.000.

Hatanai, Takashi; and Nakashima, Keishi, to Alps Electric Co., Ltd. Magnetic head for perpendicular magnetic recording. 4,695,512, 9-22-87, Cl. 428-408.000.

Hatanai, Takashi: *See—*

Mukasa, Koichi; Hatanai, Takashi; Nakashima, Keishi; and Onishi, Kazumasa, 4,638,387, Cl. 360-122.000.

Shimada, Yutaka; Hatanai, Takashi; Mukasa, Koichi; and Nakashima, Keishi, 4,641,213, Cl. 360-125.000.

Hatanaka, Isamu, to Fuji Photo Film Co., Ltd. Method for eliminating noise in regions of a color image exhibiting a specific color. 4,689,666, 8-25-87, Cl. 358-36.000.

Hatanaka, Kaoru: *See—*

Miyamaru, Yukio; Kawada, Shigeo; Hatanaka, Kaoru; and Shibata, Yasuo, 4,644,318, Cl. 340-73.000.

Miyamaru, Yukio; Hatanaka, Kaoru; Kawada, Shigeo; and Shibata, Yasuo, 4,660,020, Cl. 340-134.000.

Yamashita, Akihiko; Ikegami, Masahiko; and Hatanaka, Kaoru, 4,709,123, Cl. 174-52.00R.

Hatanaka, Katsunori; Kuroda, Yasuo; and Uzawa, Shunichi, to Canon Kabushiki Kaisha. Photoelectric imager with a high S/N ratio. 4,634,886, 1-6-87, Cl. 250-578.000.

Hatanaka, Katsunori: *See—*

Nakamura, Takashi; Hatanaka, Katsunori; Omata, Satoshi; and Osada, Yoshiyuki, 4,675,667, Cl. 340-784.000.

Ozawa, Kunitaka; Nakamura, Takashi; Katayama, Akira; Hatanaka, Katsunori; Mori, Tetsuzo; and Takaoka, Makoto, 4,716,421, Cl. 346-140.00R

Ozawa, Masakazu; Ozawa, Kunitaka; Hatanaka, Katsunori; Suzuki, Tetsuo; Mori, Tetsuzo; Shiina, Tadashi; and Ebinuma, Ryuichi, 4,651,173, Cl. 346-136.000.

Hatanaka, Keiji: *See—*

Hirabayashi, Yuji; Noguchi, Masato; and Hatanaka, Keiji, 4,691,521, Cl. 60-602.000

Nishiguchi, Fumio; Noguchi, Masato; and Hatanaka, Keiji, 4,679,398, Cl. 60-602.000.

Hatanaka, Masahiko: *See—*

Kojima, Fumitoshi; and Hatanaka, Masahiko, 4,644,473, Cl 364-414.000.

Hatanaka, Masataka: *See—*

Numata, Tatsuo; Hatanaka, Masataka; Watanabe, Junichi; Ikai, Takasi; Nawamaki, Tsutomu; and Hattori, Kenji, 4,696,694, Cl 71-86.000.

Hatanaka, Masayoshi; and Uekita, Tadayuki, to Kureha Chemical Industry Co., Ltd. Apparatus for measuring the extent of deformation of a material. 4,667,095, 5-19-87, Cl. 250-226.000.

Hatanaka, Masayuki: *See—*

Kanda, Noboru; Yokoyama, Kenzou; Aoki, Ken-ichi; Akita, Shinji; Hatanaka, Masayuki; and Oda, Tatsuharu, 4,711,733, Cl 252-29.000.

Hatanaka, Shigeto: *See—*

Takahashi, Yoshio; and Hatanaka, Shigeto, 4,673,439, Cl 106-287.240.

Hatanaka, Shigeyuki, to Kabushiki Kaisha Toshiba. Apparatus for filling electric apparatuses with insulating oil under vacuum 4,662,410, 5-5-87, Cl. 141-65.000.

Hatanaka, Takefumi. Waste material shredder. 4,690,340, 9-1-87, C 241-236.000.

Hatanaka, Yasunori: *See—*

Matsuno, Yutaka; Hatanaka, Yasunori; Shimizu, Hirokazu; Ishigak Masahiro; Harada, Hiroshi; Kawada, Michihiro; and Wakit Yasukuni, 4,673,188, Cl. 277-212.0FB.

Hatanaka, Yoshikazu: *See—*

Fukawa, Kazunaga; Bando, Kazuyoshi; Hatanaka, Yoshikazu; a Nakazato, Kikuo, 4,652,581, Cl. 514-418.000.

Hatano, Hideki, to Pioneer Electronic Corporation. Method of reco ing information on magneto-optic information storage mediu 4,670,865, 6-2-87, Cl. 369-13.000.

Hatano, Hirofumi; Yamazaki, Masayasu; Sasaki, Atsushi; Mika Keigo, deceased (by Mikami, Tsuyako, legal representative); Tac Kiyomichi; and Murakami, Mitsuharu, to Mitsubishi Jukogyo Ka shiki Kaisha; and Mitsubishi Mining & Cement Co., Ltd. Calci apparatus for powdery materials. 4,669,976, 6-2-87, Cl. 432-58.0

Hatano, Kiyoshi: *See—*

Arimitsu, Hiroshi; Hatano, Kiyoshi; Nakanishi, Teruyuki; shimura, Yoshio; Urabe, Masaki; and Honda, Tsurak 4,697,179, Cl. 340-825.720.

Hatano, Masakatsu; Oshima, Kazunori; Ihara, Tatsuya; and Kiy Kenichi, to Mitsubishi Chemical Industries Limited. Catalytic position. 4,711,867, 12-8-87, Cl. 502-205.000.

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Ikura, Katsuyata; Hagiwara, Kenji; Nagasaki, Fumihiko; Ya Tomio; Takahashi, Hidemitsu; and Hatano, Renpei, 4,71 Cl. 514-594.000.

Hatano, Takashi; Nara, Takashi; Kawato, Yutaka; and Okada, Sumie, to Fujitsu Limited. Digital exchange system. 4,698,801, 10-6-87, Cl. 370-58.000.

Hatano, Tsuyoshi: *See—*
  Murata, Yoshitaka; Hatano, Tsuyoshi; and Ohkubo, Hideo, 4,638,526, Cl. 15-367.000.

Hatano, Yoshinobu: *See—*
  Goto, Hajime; Amemiya, Ikuzo; Nakayama, Masanobu; and Hatano, Yoshinobu, 4,639,988, Cl. 29-25.350.

Hataoka, Kenji: *See—*
  Yamashita, Akinori; Hataoka, Kenji; Hashimoto, Noboru; and Misumi, Masanori, 4,658,792, Cl. 123-478.000.

Hataoka, Seiichi: *See—*
  Nishimura, Kazuhisa; Yoshihiro, Mitsugu; Sakai, Masaaki; and Hataoka, Seiichi, 4,698,703, Cl. 360-73.000.

Hataura, Kiyoshi: *See—*
  Sakano, Kenji; Aketa, Masahiro; Ikeshima, Tetsuro; Hataura, Kiyoshi; Sakanaka, Hiroo; and Yamashita, Masahiro, 4,703,729, Cl 123-308.000.

Hatayama, Fumihiro, to Dainippon Screen Mfg. Co., Ltd. Scanning method and system being capable of registering plural reproduction images. 4,652,936, 3-24-87, Cl. 358-285.000.

Hatayama, Fumihiro; and Hirosawa, Makoto, to Dainippon Screen Mfg. Co., Ltd. Method and apparatus for generating halftone dots. 4,668,996, 5-26-87, Cl. 358-298.000.

Hatayama, Fumihiro, to Dainippon Screen Mfg. Co., Ltd. Magnification ratio conversion in image reproduction. 4,682,243, 7-21-87, Cl. 358-287.000.

Hatayama, Kazumi; and Hayashi, Terumine, to Hitachi, Ltd. Method and apparatus for diagnosing a LSI chip. 4,710,930, 12-1-87, Cl. 371-25.000.

Hatayama, Masato; and Matsumora, Satoru, to Alps Electric Co., Ltd. Transparent touch-sensitive panel. 4,700,025, 10-13-87, Cl. 200-5.00A.

Hatayama, Satoyuki, to Tohkai Kogyo Co., Ltd. UV-cured automotive seal component. 4,635,947, 1-13-87, Cl. 277-235.00A.

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Hatch, Bruce O.; and Spaulding, Richard A., to Thermal Dynamics Corporation. Plasma-arc torch with sliding gas valve interlock. 4,691,094, 9-1-87, Cl. 219-121.0PR.

Hatch, Bruce O., to Thermal Dynamics Corporation. Spring loaded electrode exposure interlock device. 4,701,590, 10-20-87, Cl. 219-121.0PR.

Hatch, Bruce O.: *See—*
  Kneeland, Robert D.; Hatch, Bruce O.; and Spaulding, Richard A., 4,663,512, Cl. 219-121.0PU.
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Hatch, Burton D., to General Electric Company. Liquid metal circulation in an acyclic generator collector. 4,712,032, 12-8-87, Cl. 310-178.000.

Hatch, Edmond K., to Equipment Merchants International Inc. Foundry molding machine and method. 4,673,020, 6-16-87, Cl. 164-40.000.

Hatch, Frederick R., to Mather Company, The. Seal assembly for a vehicle air conditioning compressor. 4,664,392, 5-12-87, Cl. 277-152.000.

Hatch, G. Brent, to Hatch, G. Brent; and Hatch, Susan W. Machine for laying conduit and methods for use thereof. 4,714,381, 12-22-87, Cl. 405-178.000.

Hatch, Jimmie K. Refrigerant material transfer adapter. 4,644,982, 2-24-87, Cl. 141-383.000.

Hatch, Susan W.: *See—*
  Hatch, G. Brent, 4,714,381, Cl. 405-178.000.

Hatch, Victor W. Hall effect probe. 4,660,018, 4-21-87, Cl. 338-32.00H.

Hatcher, Herbert J.: *See—*
  Pedersen, Daniel E.; and Hatcher, Herbert J., 4,684,469, Cl. 210-632.000.

Hatfield, Gregory: *See—*
  Lash, Robert; and Hatfield, Gregory, 4,662,873, Cl. 604-179.000.

Hatfield, Gregory A.; and Lash, Robert E., to MD Engineering. Noise attenuating smokeless surgical device. 4,683,884, 8-4-87, Cl. 128-303.140.

Hatfield, James C., to Union Carbide Corporation. Encapsulation of phase change materials. 4,708,812, 11-24-87, Cl. 252-70.000.

Hatfield, James H., to Imperial Chemical Industries, PLC. Method and apparatus for controlling dynamic instability in axially moving form. 4,663,097, 5-5-87, Cl. 264-40.700.

Hatfield, Jay D. Wire clamp. 4,662,035, 5-5-87, Cl. 24-135.00R.

Hatfield, Jerry L. Printed circuit repair process. 4,683,652, 8-4-87, Cl. 29-829.000.

Hatfield, Raymond W., to Ladney, Michael. Carrier assembly and device for use in a paint spray system. 4,703,716, 11-3-87, Cl. 118-500.000.

Hatfield, Thomas J.: *See—*
  Wells, Raymond C.; and Hatfield, Thomas J., 4,655,191, Cl. 125-16.00R.

Hatfield, William T.: *See—*
  Koch, Steven R.; Stein, Charles R.; Hatfield, William T.; Shapiro, Neil R.; and Hughes, William C., 4,715,030, Cl. 370-85.000.

Hathaway, Doris: *See—*
  Groll, Werner; Schock, Gernot; Hathaway, Doris; and Wagner, Rudolf, 4,681,735, Cl. 420-464.000.

Hathaway, James C.: *See—*
  Armes, William P.; Cherniski, Andrew M.; Hanaway, Richard W.; and Hathaway, James C., 4,676,951, Cl. 422-65.000.

Hathaway, John M., to Kimberly-Clark Corporation. Apparatus and process for separating and removing bundles of sheets. 4,700,939, 10-20-87, Cl. 270-39.000.

Hathaway, Robert E.; and Norin, Edward M., to Allied Corporation. Rapidly solidified powder production system. 4,650,130, 3-17-87, Cl. 241-101.400.

Hathcock, Emmet L. Dobro capo. 4,671,156, 6-9-87, Cl. 84-318.000.

Hatheway, Nicholas N., Jr.: *See—*
  Santomango, Anthony; and Hatheway, Nicholas N., Jr., 4,636,725, Cl. 324-158.00F.
  Santomango, Anthony; and Hatheway, Nicholas N., Jr., 4,636,726, Cl. 324-158.00F.

Hatimaki, Takeshi: *See—*
  Hata, Yasuhisa; Hatimaki, Takeshi; and Ogura, Satoshi, 4,696,626, Cl. 417-312.000.

Hatley, Gary L.: *See—*
  Basinger, David M.; Hatley, Gary L.; Kiser, Billy J.; and Moser, James N., 4,678,173, Cl. 270-45.000.

Hatley, John F. Cargo container lift device. 4,688,839, 8-25-87, Cl. 294-81.210.

Hatmann, Clinton S.: *See—*
  Ragan, Lawrence H.; Hatmann, Clinton S.; and Ash, Darrell L., 4,682,224, Cl. 380-16.000.

by Hatono, Akio; and Kobayashi, Sumio, to Sumitomo Metal Industries, Ltd. Apparatus for detecting slag outflow. 4,693,614, 9-15-87, Cl. 374-122.000.

Hatori, Kunitake: *See—*
  Kokubun, Yoshikazu; Hatori, Kunitake; and Kanezashi, Takeshi, 4,648,313, Cl. 99-289.00R.

Hatori, Masakazu: *See—*
  Mizunoya, Nobuyuki; Sugiura, Yasuyuki; and Hatori, Masakazu, 4,704,320, Cl. 428-210.000.

Hatori, Mitsuo: *See—*
  Hayano, Makoto; Nagatomo, Shigemi; Sakata, Hirotsugu; Hatori, Mitsuo; and Hattori, Hitoshi, 4,673,339, Cl. 418-15.000.
  Hayano, Makoto; Nagatomo, Shigemi; Sakata, Hirotsugu; Hatori, Mitsuo; and Hattori, Hitoshi, 4,708,607, Cl. 418-55.000.
  Sakata, Hirotsugu; Nagatomo, Shigemi; Hayano, Makoto; and Hatori, Mitsuo, 4,696,630, Cl. 418-55.000.

Hatori, Yoshinori; and Kaneko, Masahide, to Kokusai Denshin Denwa Kabushiki Kaisha. System for detecting vector of motion of moving objects on picture. 4,636,862, 1-13-87, Cl. 358-166.000.

Hatori, Yoshinori; and Kaneko, Masahide, to Kokusai Denshin Denwa Kabushiki Kaisha. System for re-quantization of coded picture signals. 4,677,479, 6-30-87, Cl. 358-135.000.

Hatori, Yoshinori: *See—*
  Kaneko, Masahide; Hatori, Yoshinori; and Miyasato, Tsutomu, 4,691,230, Cl. 358-105.000.

Hatsuse, Toshikazu: *See—*
  Kimura, Sotaku; Hatsuse, Toshikazu; Shimizu, Masami; Miyashita, Masakazu; Yoshioka, Junichi; Kanai, Akira; and Koizumi, Koichi, 4,656,951, Cl. 108-20.000.
  Nagashima, Mitsuyoshi; Hatsuse, Toshikazu; Miyashita, Masakazu; and Kanai, Akira, 4,653,408, Cl. 108-20.000.

Hatta, Keizo, to Yoshida Kogyo K.K. Safety device for automatically openable and closable lid. 4,669,628, 6-2-87, Cl. 220-211.000.

Hatta, Keizo, to Yoshida Kogyo K. K. Apparatus for continuously heating an elongated textile article. 4,696,642, 9-29-87, Cl. 432-59.000.

Hatta, Keizo, to Yoshida Kogyo K. K. Apparatus for continuously thermally treating elongate textile products. 4,711,040, 12-8-87, Cl. 34-73.000.

Hatta, Koichi: *See—*
  Iijima, Toshifumi; Kumashiro, Kenji; Kashiwagi, Hiroshi; Hatta, Koichi; Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; and Shinozaki, Kaoru, 4,665,015, Cl. 430-558.000.
  Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; Iijima, Toshijumi; Kumashiro, Kenji; Kashiwagi, Hiroshi; Hatta, Koichi; Uchida, Takashi; Wada, Hajime; Ishii, Fumio; Matsunaga, Satoshi; Matsubara, Yasuko; and Shinozaki, Kaoru, 4,695,533, Cl. 430-558.000.
  Oda, Koichi; Hatta, Koichi; and Sumitani, Toshihiko, 4,695,983, Cl. 364-709.000.

Hatteland, Kjell: *See—*
  Benestad, Otto; Hatteland, Kjeil; and Fredriksen, Paul, 4,635,237, Cl. 367-20.000.

Hattem, Marwan E.; and Rushford, Calvin R., to Tubelite Division of Indall, Inc. Collapsible revolving door. 4,688,350, 8-25-87, Cl. 49-44.000.

Hatten, James L., to Texas Eastern Drilling Systems, Inc. Stabilizer mechanism for use in drilling deviated well bores. 4,685,895, 8-11-87, Cl. 464-19.000.

Hattersley, Harold J., Jr., to Syncro Machine Co. Continuous spooler for and method of winding reels with selected length long ends. 4,643,368, 2-17-87, Cl. 242-25.00A.

Hatton, Gregory J.; Helms, David A.; and Williams, Thomas M., to Texaco Inc. Petroleum stream monitoring means and method. 4,660,414, 4-28-87, Cl. 73-61.10R.

Hatton, James H., Jr.: *See—*
  Bronstad, Maurice E.; Hatton, James H., Jr.; and Meczkowski, Leonard C., 4,678,166, Cl. 256-13.100.

Hatton, John H.; and Batt, Gregory L. Multi-axis articulated all terrain vehicle. 4,714,140, 12-22-87, Cl. 180-20.000.

Hatton, T. Alan; and Plawsky, Joel L., to Massachusetts Institute of Technology. Fiber optic probe and system for particle size and velocity measurement. 4,662,749, 5-5-87, Cl. 356-336.000.

Hatton, William H.: *See—*
  Nishimura, Masayuki; and Hatton, William H., 4,662,743, Cl. 356-73.100.

Hattori, Akihiko: *See—*
  Tamenori, Hiroyuki; Hattori, Akihiko; and Yoshiyagawa, Mitsugi, 4,678,652, Cl. 423-339.000.

Hattori, Eiichi: *See—*
  Umemoto, Sumio; Hattori, Eiichi; and Kamakari, Ryutaro, 4,639,384, Cl. 427-290.000.

Hattori, Hideki: *See—*
  Okumura, Munehiro; Nomura, Takao; Matsuda, Tadashi; Kido, Shojiro; Ishii, Shinichi; and Hattori, Hideki, 4,690,764, Cl. 210-629.000.

Hattori, Hiroshi: *See—*
  Ueno, Hideo; Hattori, Hiroshi; Maeda, Kumiko; and Yamada, Keiko, 4,695,172, Cl. 400-83.000.

Hattori, Hiroyuki; Uemura, Takashi; and Yamauchi, Toshio, to Nissho Corporation. Device for sampling blood and measuring erythrocyte sedimentation rate. 4,701,305, 10-20-87, Cl. 422-73.000.

Hattori, Hiroyuki; and Morita, Akiyoshi, to Victor Company of Japan, Ltd. Circuit arrangement and method for moving characters superimposed on an image represented by a video signal. 4,706,075, 11-10-87, Cl. 340-726.000.

Hattori, Hiroyuki: *See—*
  Komori, Shigehiro; Sakamaki, Hisashi; Hattori, Hiroyuki; Iida, Toshihide; Miyamoto, Koichi; and Umezawa, Kazumi, 4,662,740, Cl. 355-3.0SH.

Hattori, Hisahiro: *See—*
  Tsuchinari, Akihiro; Shimobayashi, Osamu; and Hattori, Hisahiro, 4,676,412, Cl. 222-591.000.

Hattori, Hisashi; Takenoshita, Hidemitsu; and Hanada, Yoichiro, to Kabushiki Kaisha Komatsu Seisakusho. Fluidized-bed incineration equipment for removing organic substances. 4,708,068, 11-24-87, Cl. 110-245.000.

Hattori, Hitoshi: *See—*
  Hayano, Makoto; Nagatomo, Shigemi; Sakata, Hirotsugu; Hatori, Mitsuo; and Hattori, Hitoshi, 4,673,339, Cl. 418-15.000.
  Hayano, Makoto; Nagatomo, Shigemi; Sakata, Hirotsugu; Hatori, Mitsuo; and Hattori, Hitoshi, 4,708,607, Cl. 418-55.000.

Hattori, Isao, to Clean Surface Technology Co. Carrier for photomask substrate. 4,646,418, 3-3-87, Cl. 29-559.000.

Hattori, Isao; and Enomoto, Akio, to NGK Insulators, Ltd. Automatic cutting apparatus for extrusion molded bodies. 4,674,376, 6-23-87, Cl. 83-285.000.

Hattori, Isao; and Noiri, Hifuo, to NGK Insulators, Ltd. Plunger molding machine having blank loading device. 4,695,242, 9-22-87, Cl. 425-376.00R.

Hattori, Isao; and Enomoto, Akio, to NGK Insulators, Ltd. Cutting apparatus for ceramic green shaped bodies. 4,702,138, 10-27-87, Cl. 83-785.000.

Hattori, Isao; and Furukawa, Shigeru, to NGK Insulators, Ltd. Evacuating device for plunger molding apparatus. 4,714,423, 12-22-87, Cl. 425-376.00R.

Hattori, Jun; and Suda, Shigeyuki, to Canon Kabushiki Kaisha. Projection device with refractive index distribution type lens. 4,696,552, 9-29-87, Cl. 350-413.000.

Hattori, Jun; and Ishikawa, Youhei, to Murata Manufacturing Co., Ltd. Dielectric resonator. 4,706,052, 11-10-87, Cl. 333-219.000.

Hattori, Jun: *See—*
  Baba, Takeshi; and Hattori, Jun, 4,674,843, Cl. 350-413.000.

Hattori, Kaneaki: *See—*
  Yamauchi, Takayoshi; Hattori, Kaneaki; Ikeda, Shunichi; Nakao, Kenji; and Tamaki, Kentaro, 4,649,213, Cl. 560-56.000.
  Yamauchi, Takayoshi; Hattori, Kaneaki; Ikeda, Shunichi; and Tamaki, Kentaro, 4,716,241, Cl. 558-44.000.

Hattori, Kazuhide: *See—*
  Yazaki, Takao; Hattori, Satoru; Hattori, Kazuhide; Matsuno, Takumi; Shibuya, Nobuhiro; Hayama, Kazuhide; and Itoh, Isao, 4,659,618, Cl. 428-317.700.

Hattori, Kenji; and Fujii, Etsuo, to Honda Giken Kogyo Kabushiki Kaisha. Pressure responsive switch. 4,706,500, 11-17-87, Cl. 73-728.000.

Hattori, Kenji: *See—*
  Numata, Tatsuo; Hatanaka, Masataka; Watanabe, Junichi; Ikai, Takasi; Nawamaki, Tsutomu; and Hattori, Kenji, 4,696,694, Cl. 71-86.000.
  Suzaki, Shunkichi; Shirai, Toshiaki; Adachi, Hisanobu; Hayashi, Masaharu; Hattori, Kenji; and Takakura, Yoshinari, 4,687,132, Cl. 236-35.000.

Hattori, Kiyoshi; and Usuda, Eiji, to Fanuc Ltd. Programmable controller with fault detection. 4,685,053, 8-4-87, Cl. 364-184.000.

Hattori, Kyo; Kato, Kazuo; and Morita, Shuji, to Toyota Jidosha Kabushiki Kaisha. Gear assembly for transmitting rotation between two shafts. 4,696,201, 9-29-87, Cl. 74-467.000.

Hattori, Kyo: *See—*
  Idogaki, Takaharu; Kawai, Hisasi; Hattori, Kyo; and Sakurai, Kazuhiro, 4,647,009, Cl. 251-129.120.
  Sakurai, Kazuhiro; and Hattori, Kyo, 4,700,669, Cl. 123-188.00M.
  Yokoi, Tatsuhisa; Takeya, Eisaku; Hattori, Kyo; Abe, Kazuo; and Osawa, Hideyuki, 4,672,939, Cl. 123-568.000.

Hattori, Makoto; and Yamanaka, Shoji, to Daicel Chemical Industries, Ltd. Electrochromic material and lubricant. 4,669,830, 6-2-87, Cl. 350-357.000.

Hattori, Makoto; Nishikuri, Masao; and Ueda, Yasuyoshi, to Sumitomo Chemical Company, Limited. Method for producing 1-amino-2-phenoxy-4-hydroxyanthraquinones. 4,710,320, 12-1-87, Cl. 260-378.000.

Hattori, Masaaki: *See—*
  Yoshihara, Mitsuo; Morikawa, Yoshitada; Yamamoto, Yasuo; Komada, Mitsuharu; and Hattori, Masaaki, 4,645,297, Cl. 350-96.230.

Hattori, Masafumi: *See—*
  Inoue, Takayuki; Hattori, Masafumi; Hayama, Kazuhide; and Maruta, Riichiro, 4,698,395, Cl. 525-327.800.

Hattori, Masaichi; Hanaki, Akira; and Kihira, Kouichi, to Kabushiki Kaisha Tokai Rika Denki Seisakusho. Manually operated mode selecting valve device. 4,633,908, 1-6-87, Cl. 137-637.100.

Hattori, Masaichi: *See—*
  Iwamoto, Tadashi; Ikeda, Toshiki; Yukitomo, Kazuo; Hattori, Masaichi; Arakawa, Kaneyasu; Kihira, Koichi; and Hanaki, Akira, 4,683,403, Cl. 315-83.000.
  Morita, Masayuki; and Hattori, Masaichi, 4,679,453, Cl. 74-128.000.
  Takeda, Nobuhiro; and Hattori, Masaichi, 4,649,286, Cl. 307-10.00R.

Hattori, Masakatsu; and Fujiki, Masao, to Kabushiki Kaisha Toshiba. Head positioning control system in magnetic disk device of index servo system. 4,636,884, 1-13-87, Cl. 360-78.000.

Hattori, Masaru, to Nippon Seiko Kabushiki Kaisha. Linear guide device. 4,637,739, 1-20-87, Cl. 384-45.000.

Hattori, Masayoshi: *See—*
  Koike, Renji; and Hattori, Masayoshi, 4,646,664, Cl. 112-67.000.

Hattori, Masayuki: *See—*
  Kasai, Kiyoshi; Hattori, Masayuki; Kikuchi, Osamu; Takeuchi, Hiromi; Hirai, Haruhiro; and Sakurai, Nobuo, 4,694,035, Cl. 524-458.000.

Hattori, Michihiro: *See—*
  Nakamura, Koichi; Hori, Kimihiko; Hattori, Michihiro; Tejima, Toru; Imokawa, Genji; and Takaishi, Naotake, 4,704,473, Cl. 562-463.000.
  Nakamura, Koichi; Hattori, Michihiro; Tamura, Tadashi; Tejima, Toru; Takaishi, Naotake; Imokawa, Genji; and Hotta, Hajime, 4,710,373, Cl. 424-59.000.

Hattori, Morihisa, to Nikko Kakouzai Co., Ltd. Adhesive pad for use on human body. 4,640,288, 2-3-87, Cl. 128-505.000.

Hattori, Noboru, to Seiko Epson Kabushiki Kaisha. Personal liquid crystal image display. 4,636,866, 1-13-87, Cl. 358-236.000.

Hattori, Noriaki: *See—*
  Asano, Masumi; and Hattori, Noriaki, 4,664,605, Cl. 417-407.000.

Hattori, Ryuichi: *See—*
  Sugisawa, Ko; Matsumura, Yasushi; Taga, Kazumitsu; and Hattori, Ryuichi, 4,637,145, Cl. 34-1.000.
  Sugisawa, Ko; Matsumura, Yasushi; Taga, Kazumitsu; and Hattori, Ryuichi, 4,664,924, Cl. 426-242.000.

Hattori, Sadao, to Central Research Institute of Electric Power Industry; Toshiba Corporation; and Hitachi, Ltd. Double tank type fast breeder reactor. 4,645,633, 2-24-87, Cl. 376-179.000.

Hattori, Satoru: *See—*
  Yazaki, Takao; Hattori, Satoru; Hattori, Kazuhide; Matsuno, Takumi; Shibuya, Nobuhiro; Hayama, Kazuhide; and Itoh, Isao, 4,659,618, Cl. 428-317.700.

Hattori, Seiichi; and Kanda, Kunio, to Fanuc Ltd. System for transmitting data to auxiliary memory device. 4,652,994, 3-24-87, Cl. 364-200.000.

Hattori, Shigenori; Ueno, Hideo; Uchida, Toyohisa; and Kinoshita, Naohisa, to Brother Industries, Ltd. Thermal printer. 4,665,407, 5-12-87, Cl. 346-76.0PH.

Hattori, Shigeo: *See—*
  Asari, Akira; Matsumoto, Satoshi; Hattori, Shigeo; and Dosai, Takayoshi, 4,637,112, Cl. 29-159.010.
  Asari, Akira; Yamamura, Takashige; Hattori, Shigeo; Ueno, Tsuneya; Matsumoto, Satoshi; Dosai, Takayoshi; Ohtsuki, Fumikazu; Fujimoto, Kazuhiro; and Takahashi, Toshimitsu, 4,669,291, Cl. 72-83.000.
  Asari, Akira; Yamamura, Takashige; Hattori, Shigeo; and Ueno, Tsuneya, 4,683,630, Cl. 29-159.010.

Hattori, Shigeru, to Honda Giken Kogyo Kabushiki Kaisha. Motorcycle. 4,696,366, 9-29-87, Cl. 180-296.000.

Hattori, Shinichi, to Mitsubishi Denki Kabushiki Kaisha. Machining apparatus. 4,665,493, 5-12-87, Cl. 364-474.000.

Hattori, Shinichi, to Mitsubishi Denki Kabushiki Kaisha. Controller for movable robot for moving a work element through a continuous path. 4,706,204, 11-10-87, Cl. 364-513.000.

Hattori, Shinichiro: *See—*
  Kanno, Masahide; Amano, Atsushi; Hosoda, Seiichi; and Hattori, Shinichiro, 4,704,520, Cl. 250-205.000.
  Sato, Ken; Takahashi, Yutaka; Tsukaya, Takashi; Kato, Shinichi; and Hattori, Shinichiro, 4,646,724, Cl. 128-6.000.

Hattori, Shintaroo: *See—*
  Hirai, Yoichi; Fujii, Tsunenori; Koto, Kaoru; Suzuki, Kenji; Yoshida, Masahiro; Okawa, Hisashi; Okabe, Yoshiaki; Kitamura, Teruo; Yokokura, Hisao; Hattori, Shintaroo; Mukoh, Akio; and Sato, Mikio, 4,694,098, Cl. 560-59.000.
  Isogai, Masato; Hattori, Shintaroo; Iwaskai, Kishiro; Mukoh, Akio; Umeda, Takao; and Nagae, Yoshiharu, 4,634,226, Cl. 350-332.000.
  Oka, Hiroyuki; Akasaka, Shinichi; Ohara, Shuichi; Hattori, Shintaroo; Mori, Yasuki; Narahara, Toshikazu; and Matsumoto, Hiroshi, 4,690,858, Cl. 428-216.000.

Hattori, Shuzo; Wakita, Naomasa; and Okuda, Makoto. Light deflection apparatus. 4,660,941, 4-28-87, Cl. 350-487.000.

Hattori, Shuzo; and Uchida, Yoshiyuki, to Nagoya University, The President of. Optical self-alignment system. 4,664,524, 5-12-87, Cl. 356-401.000.

Hattori, Syunsuke: *See—*
  Suzuki, Yuji; and Hattori, Syunsuke, 4,652,893, Cl. 346-140.00R.

Hattori, Tadashi: *See—*
  Ikeda, Hirotane; Hattori, Tadashi; Ohta, Minoru; and Mukainakano, Shinichi, 4,714,047, Cl. 118-724.000.
  Ito, Novuei; Nishida, Minoru; Mizuno, Naohito; and Hattori, Tadashi, 4,712,082, Cl. 338-4.000.
  Kondo, Kenji; Hattori, Tadashi; Atsumi, Kinya; and Nishida, Minoru, 4,675,662, Cl. 340-631.000.
  Miura, Kazuhiko; Hattori, Tadashi; Iwasaki, Yukio; Kohama, Tokio; and Kanehara, Kenji, 4,677,850, Cl. 73-204.000.
  Miura, Kazuhiko; Hattori, Tadashi; Iwasaki, Yukio; Kohama, Tokio; and Kanehara, Kenji, 4,682,496, Cl. 73-204.000.
  Miura, Kazuhiko; Hattori, Tadashi; Iwasaki, Yukio; Kohama, Tokio; and Kanehara, Kenji, 4,693,116, Cl. 73-204.000.
  Nakamura, Takehiro; Sato, Susumu; Hattori, Tadashi; Nabeta, Teiichi; and Kato, Minoru, 4,678,921, Cl. 250-574.000.
  Nishida, Minoru; Hattori, Tadashi; Yoshimura, Kunimasa; and Muraki, Tetsuzo, 4,695,758, Cl. 313-130.000.
  Noguchi, Hiroki; Kobayashi, Toshiki; Fukami, Akira; Hattori, Tadashi; Sakakibara, Nobuyoshi; and Nabeta, Teiichi, 4,689,056, Cl. 55-138.000.
  Ohta, Minoru; Miura, Kazuhiko; Onoda, Michitoshi; Iwasaki, Yukio; and Hattori, Tadashi, 4,705,713, Cl. 428-209.000
  Sakakibara, Nobuyoshi; Hattori, Tadashi; Miura, Kazuhiko; Noguchi, Hiroki; Fukami, Akira; and Nabeta, Teiichi, 4,643,745, Cl. 55-137.000.
  Sakakibara, Nobuyoshi; Hattori, Tadashi; Miura, Kazuhiko; Noguchi, Hiroki; Fukami, Akira; and Nabeta, Teiichi, 4,673,416, Cl. 55-137.000.
  Taguchi, Takasi; Ueno, Yoshiki; and Hattori, Tadashi, 4,634,242, Cl. 350-588.000.
  Taguchi, Takasi; Ueno, Yoshiki; and Hattori, Tadashi, 4,673,248, Cl. 350-166.000.
  Ueno, Yoshiki; Taguchi, Takasi; and Hattori, Tadashi, 4,696,548, Cl. 350-338.000.

Hattori, Takahiko: *See—*
  Inaba, Masao; Takahashi, Hiroshi; Nosaka, Kazuhiko; and Hattori, Takahiko, 4,649,507, Cl. 364-724.000.

Hattori, Takashi: *See—*
  Kobayashi, Nobuyuki; and Hattori, Takashi, 4,648,370, Cl. 123-489.000.
  Kobayashi, Nobuyuki; Hattori, Takashi; Yagi, Katsunori; and Ito, Toshimitsu, 4,653,451, Cl. 123-489.000.
  Kobayashi, Nobuyuki; Hattori, Takashi; Yagi, Katsunori; and Ito, Toshimitsu, 4,713,766, Cl. 364-431.050.

Hattori, Takemi; and Kawamura, Reiki, to Aisin Seiki Kabushiki Kaisha; and Toyota Jidosha Kabushiki Kaisha. Side support assembly. 4,679,855, 7-14-87, Cl. 297-486.000.

Hattori, Takemi; and Kawamura, Reiki, to Aisin Seiki Kabushiki Kaisha. Seatback spring device for automobile. 4,697,848, 10-6-87, Cl. 297-460.000

Hattori, Takemi; and Takeda, Nobuhiko, to Aisin Seiki Kabushiki Kaisha. Lumbar support. 4,714,291, 12-22-87, Cl. 297-284.000.

Hattori, Takemi; and Takeda, Nobuhiko, to Aisin Seiki Kabushiki Kaisha. Lumbar support apparatus. 4,715,653, 12-29-87, Cl. 297-284.000.

Hattori, Takeo: *See—*
  Kutsukake, Mitsuhiro; Murata, Takahiko; Saito, Gunji; Komatsuzaki, Takeshi; Uehara, Kuniaki; Kato, Toshinobu; Hattori, Takeo; and Hayashida, Morimasa, 4,711,077, Cl. 56-320.200.

Hattori, Tetsuo; and Seko, Shoichi, to Toyota Jidosha Kabushiki Kaisha. Suspension of vehicle. 4,714,132, 12-22-87, Cl. 180-312.000.

Hattori, Tetsuya: *See—*
  Fujiwara, Shinobu; Satoh, Atsushi; Hattori, Tetsuya; and Sutoh, Junichi, 4,692,422, Cl. 501-136.000.

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Hattori, Toshihiro; Shishido, Katsuya; Kasai, Hitoshi; Moride, Shigeki; and Ogawa, Noriaki, to Isuzu Motors Limited; and Fujitsu Limited. Revolution signal processing system for vehicular electronic controller. 4,685,051, 8-4-87, Cl. 364-424.100.

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  Asagi, Yasuyoshi; Ogawa, Noriaki; Kasai, Hitoshi; Hattori, Toshihiro; and Uriuhara, Makoto, 4,642,771, Cl. 364-424.100.
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  Kasai, Hitoshi; Asagi, Yasuyoshi; Hattori, Toshihiro; Saito, Hideo; and Shishido, Katsuya, 4,635,214, Cl. 364-551.000.
  Yoshimura, Hiroshi; and Hattori, Toshihiro, 4,678,069, Cl. 192-0.033.

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  Hirosawa, Toshiaki; Akiyama, Yoshie; Ebisawa, Isao; Hattori, Yoshifumi; and Abe, Tsutomu, 4,684,962, Cl. 346-140.00R.

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Hattori, Yoshinori: *See—*
  Murate, Shigenori; and Hattori, Yoshinori, 4,689,921, Cl. 51-317.000.

Hattori, Yoshiyuki; Nomura, Ken; Goshima, Takahiro; and Tanaka, Hitoshi, to Nippondenso Co., Ltd. Automotive infinite transmission. 4,705,492, 11-10-87, Cl. 474-49.000.

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Hattori, Yoshiyuki: *See—*
  Imoto, Yuzo; Takei, Toshihiro; Hattori, Yoshiyuki; Uno, Haruhiko; Inagaki, Mitsuo; and Takeda, Kenji, 4,705,323, Cl. 303-116.000.
  Imoto, Yuzo; Wakata, Hideo; Takei, Toshihiro; and Hattori, Yoshiyuki, 4,714,296, Cl. 303-6.00C.
  Ishihara, Nobuaki; Takei, Toshihiro; Hattori, Yoshiyuki; and Okazaki, Koji, 4,669,963, Cl. 418-65.000.
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  Takagi, Kozi; Nomura, Ken; Hattori, Yoshiyuki; and Kamiya, Masahiko, 4,708,406, Cl. 303-115.000
  Takei, Toshihiro; Hattori, Yoshiyuki; and Nomura, Ken, 4,674,540, Cl. 137-625.650.

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  Kume, Toyohiko; Tsuboi, Shinichi; Isono, Kunihiro; Sasaki, Shoko; and Hattori, Yumi, 4,675,331, Cl. 514-367.000.

Hatzakis, Michael; Liutkus, John J.; Paraszczak, Jurij R.; and Shaw, Jane M., to International Business Machines Corp. Halogenated polystyrenes for electron beam, X-ray and photo resists. 4,678,850, 7-7-87, Cl. 526-293.000.

Hatzakis, Michael: *See—*
  Babich, Edward D.; Hatzakis, Michael; Liutkis, John J.; Parasczak, Juri R.; and Shaw, Jane M., 4,693,960, Cl. 430-323.000

Hatzenbuhler, John R.; and Lindl, Thomas A. Laser barrier. 4,658,812, 4-21-87, Cl. 128-207.140.

Hau, Sau F.: *See—*
  Clark, Adrian P.; and Hau, Sau F., 4,701,936, Cl. 375-14.000.

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Haubenwallner, Gerhard. Drive motor, which is supplied by an energy source, for disk-shaped or wheel-shaped members with a control mechanism. 4,671,524, 6-9-87, Cl. 280-212.000.

Hauber, Peter. Ball bearing apparatus having snap fit feature. 4,682,901, 7-28-87, Cl. 384-539.000.

Haubold, Heinz-Gunter; and Hiller, Peter, to Kernforschungsanlage Julich GmbH. Process and circuit arrangement for the remote pick up and reproduction of images of static or moving objects. 4,714,961, 12-22-87, Cl. 358-209.000.

Haubry, Andre : *See—*
  Fayoux, Christian; and Haubry, Andre . 4,676,902, Cl. 210-350.000.

Haubs, Michael K.: *See—*
  Taylor, Lloyd D.; and Haubs, Michael K., 4,670,528, Cl. 526-263.000.

Hauch, Dennis W.: *See—*
  Eichman, Carl E.; Gurubatham, Vincent P.; Hauch, Dennis W.; and Kinyon, Garrett K., 4,700,554, Cl. 68-17.00R.

Hauck, James P.: *See—*
  Lim, Wah L.; Hauck, James P.; and Raquet, Jack W., 4,705,398, Cl. 356-350.000.

Hauck, John D.: *See—*
  Nadir, Mark; and Hauck, John D., 4,701,759, Cl. 340-825.440.

Hauck, Lane T. Switch actuated communication device. 4,706,067, 11-10-87, Cl. 340-365.00R.

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Benzotriazolyl-4,5-dihydro-3(2H)-pyridazinones. 4,699,909, 10-13-87, Cl. 514-254.000.
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Heider, Joachim; Hauel, Norbert; Austel, Volkhard; Noll, Klaus; Bomhard, Andreas; van Meel, Jacques; and Diederen, Willi, 4,716,169, Cl. 514-299.000.
Hauenstein, Alfred, to Siemens Aktiengesellschaft. Circuit for connecting a load to the high side of a DC power supply. 4,683,438, 7-28-87, Cl. 323-288.000.
Hauenstein, Ernst, to CP Pumpen AG. Sealing shroud centrifugal pump. 4,645,433, 2-24-87, Cl. 417-420.000.
Hauenstein, Ernst, to CP Pumpen AG. Sealing shroud centrifugal pump. 4,648,808, 3-10-87, Cl. 417-353.000.
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Hank, Dietrich; and Hauer, Kerstin, 4,693,126, Cl. 73-862.480.
Hauff, Werner. Flame-retarding wall feedthrough fitting. 4,646,486, 3-3-87, Cl. 52-1.000.
Hauff, Werner. Sealing body for feedthrough for at least one conducting member through a wall opening. 4,703,136, 10-27-87, Cl. 174-152.00G.
Hauffe, Jean G., executrix: *See—*
Hauffe, William L., deceased; and Daghe, Joseph L., 4,699,168, Cl. 137-385.000.
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Haug, Edward W., to Barber-Colman Company. Shaper cutter with replaceable cutting wafer. 4,673,317, 6-16-87, Cl. 407-28.000.
Haug, Georg: *See—*
Scheder, Dietmar; and Haug, Georg, 4,651,472, Cl. 51-105.00R.
Haug, Kurt; and Peterssen, Rudolf, to Robert Bosch GmbH. Headlight-blinking light unit for passenger cars. 4,710,857, 12-1-87, Cl. 362-80.000.
Haug, Paul E.: *See—*
Halpern, Peter H.; Mallory, Peter E.; Haug, Paul E.; and Koos, William M., Jr., 4,649,549, Cl. 380-32.000.
Haug, Theobald: *See—*
Renner, Alfred; Haug, Theobald; and Schreiber, Bruno, 4,713,417, Cl. 525-117.000.
Haugaard, Bradley R. Folding recreation chair-pad. 4,654,907, 4-7-87, Cl. 5-420.000.
Haugen, Brian G.: *See—*
Cooke, William R.; Haugen, Brian G.; and Reparaz, Adolfo, 4,673,545, Cl. 376-261.000.
Haugen, David M. Explosively set downhole apparatus. 4,662,450, 5-5-87, Cl. 166-299.000.
Haugen, David M.: *See—*
George, Flint R.; and Haugen, David M., 4,655,298, Cl. 175-4.520.
Haugen, Finn: *See—*
Herve, Jean-Luc; Jouanneau, Jean-Francois; Kristensen, Ivar G.; and Haugen, Finn, 4,648,419, Cl. 137-245.500.
Haugen, Harold M.: *See—*
Haugen, Per; Haugen, Harold M.; and De Jong, Ingolf J. C., 4,702,046, Cl. 52-144.000.
Haugen, Harwick A.: *See—*
Billigmeier, James E.; Groves, James D.; Haugen, Harwick A.; and Pokorny, Richard J., 4,639,483, Cl. 524-296.000.
Haugen, Per; Haugen, Harold M.; and De Jong, Ingolf J. C., to General Communications, Inc. Acoustical wall panel. 4,702,046, 10-27-87, Cl. 52-144.000.
Haugen, Richard D., to Honeywell Inc. Pneumatic devices with noise dampening. 4,685,485, 8-11-87, Cl. 137-85.000.
Hauger, Josef; Madge, Werner; and Gille, Paul, to Kienzle Apparate GmbH. Record sorting. 4,650,177, 3-17-87, Cl. 271-305.000.
Hauger, Josef; and Tauchert, Klaus, to Kienzle Apparate GmbH. Printing assembly with coloring system. 4,676,680, 6-30-87, Cl. 400-211.000.
Haugerud, Albert R. Computer controllable robotic educational toy. 4,712,184, 12-8-87, Cl. 364-513.000.
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McKee, Jere L.; Thomas, Glenn R.; Haugh, Charles E.; and Gula, Lance, 4,656,444, Cl. 335-16.000.
Paton, Charles R.; and Haugh, Charles E., 4,645,890, Cl. 200-153.00G.
Haught, Alan F.: *See—*
Kesten, Arthur S.; Haught, Alan F.; and Couch, Harold T., 4,712,610, Cl. 165-104.120.
Haughton, Billy L.: *See—*
Parra, Ernest P.; and Haughton, Billy L., 4,662,436, Cl. 166-55.600.
Haugland, James R., to Honeywell Inc. Radar transit time simulator device. 4,683,473, 7-28-87, Cl. 342-172.000.
Haugland, Steve E., to Storage Technology Corporation. Amplitude sensor with adaptive threshold generation. 4,635,142, 1-6-87, Cl. 360-46.000.
Haugse, Albert L.: *See—*
Schneider, James T.; and Haugse, Albert L., 4,692,479, Cl. 523-209.000.
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Baird, Donald H.; and Haugsjaa, Paul O., 4,654,542, Cl. 307-227.000.
Haugwitz, Rudiger D.; Narayanan, Venkatachala L.; Zalkow, Leon H. Deutsch, Howard M.; and Gelbaum, Leslie, to United States of America, Health and Human Services. Formaldehyde derivatives of mitindomide. 4,670,461, 6-2-87, Cl. 514-410.000.
Haugwitz, Rudiger D.; and Sprague, Peter W., to E. R. Squibb & Sons, Inc. Substituted 4-phenoxy or 4-phenylthio prolines. 4,681,886 7-21-87, Cl. 514-259.000.
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Baker, David C.; Hand, Elli S.; Haugwitz, Rudiger D.; Narayanan, Venkatachala L.; and Rampal, Jang B., 4,709,033, Cl. 544-336.000.
Hauk, Klaus, to Deere & Company. Reed switch with a housing and pulse generator. 4,638,276, 1-20-87, Cl. 335-151.000
Hauk, Rolf, to Korf Engineering GmbH; and Voest-Alpine Aktiengesellschaft. Process for the production of pig iron. 4,673,43 6-16-87, Cl. 75-38.000.
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Haunhorst, Greg A.: *See—*
Smith, Donald E.; and Haunhorst, Greg A., 4,678,219, C 294-82.330.
Hauni-Richmond, Inc.: *See—*
Hinzmann, Alfred, 4,642,083, Cl. 493-93.000.
Hauni-Werke Korber & Co. KG: *See—*
Bahr, Thomas; and Michel, Peter, 4,676,769, Cl. 493-4.000.
Bergner, Herbert; Blidung, Otto; and Harten, Johannes, 4,653,24 Cl. 53-231.000.
Bleich, Ralf, 4,670,964, Cl. 29-568.000.
Deutsch, Reinhard; Pohl, Klaus Jurgen; and Masuch, Gerhard 4,643,027, Cl. 73-432.100.
Goldbach, Manfred; Marquardt, Siegfrid; and Myohl, Joch 4,693,262, Cl. 131-84.300.
Gomann, Rolf; and Grasse, Hans-Jochen, 4,668,152, C 414-403.000.
Hagemann, Fritz; and Hagenah, Klaus, 4,685,476, Cl. 131-110.0
Heitmann, Bob, 4,646,986, Cl. 242-58.100.
Heitmann, Bob; Schluter, Karl-Heinz; and Steiniger, Wolfgang 4,659,414, Cl. 156-361.000.
Heitmann, Uwe, 4,639,592, Cl. 250-223.00B.
Heitmann, Uwe; Pinck, Peter; and Maiwald, Berthold, 4,644,17 Cl. 250-572.000.
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Hinzmann, Alfred, 4,633,923, Cl. 141-116.000.
Hinzmann, Alfred; Preisner, Peter; Presser, Erich; and Shu, Tim 4,681,124, Cl. 131-109.100.
Kahrau, Jurgen, 4,651,758, Cl. 131-109.200.
Komossa, Werner; Hausler, Nikolaus; and Elsner, Uwe, 4,640,05 Cl. 51-5.00D.
Lorenzen, Heinz-Christen; Heitmann, Uwe; and Steiniger, Wolfgang, 4,651,754, Cl. 131-84.300.
Marquardt, Siegfrid; Myohl, Jochim; and Goldbach, Manfred 4,703,764, Cl. 131-84.400.
Masuch, Gerhard; and Riedel, Claus, 4,641,771, Cl. 226-115.000
Mielke, Johannes; and Sebelin, Alfred, 4,703,704, Cl. 111-1.000
Rudszinat, Willy, 4,651,755, Cl. 131-84.400.
Steinhauer, Jurgen; and Steiniger, Wolfgang, 4,697,603, C 131-84.400.
Wahle, Gunter; and Ludszeweit, Dieter, 4,693,263, Cl. 131-84.40
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Bailey, Terry R.; and Haunschild, Dale H., 4,664,966, C 428-203.000.
Haunschild, Susan M.; Hata, Stephen S.; and Wismer, Shirlee A., to Kimberly-Clark Corporation. Disposable leakproof catamenial device. 4,690,681, 9-1-87, Cl. 604-396.000.
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Altmann, Horst-Dieter; and Haupt, Eberhard, 4,695,091, C 297-180.000.
Altmann, Horst-Dieter; and Haupt, Eberhard, 4,697,064, C 219-217.000.
Haupt, Gene, to Allegretti & Company. Apparatus for orientating TV antennas for satellite reception. 4,689,635, 8-25-87, Cl. 343-894.000
Haupt, Heinrich: *See—*
Richter, Wolfgang; Buysch, Hans-Josef; Brassat, Bert; Merten Josef; and Haupt, Heinrich, 4,656,228, Cl. 525-433.000.
Haupt, Randy L., to United States of America, Air Force. Reducing grating lobes due to subarray amplitude tapering. 4,642,645, 2-10-8 Cl. 342-379.000.

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- Hauptmann, Rudolf: *See*—
  - Siegel, Harald; and Hauptmann, Rudolf, 4,714,927, Cl. 342-160.000.
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  - Belbel, Elie; Baron, Thierry; Blanchard, Christian; Haury, Andre; and Lauraire, Michel, 4,635,022, Cl. 337-158.000.
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- Haus, Joseph B., to Bio Uclaf Corp. Stabilized pesticidal compositions. 4,677,117, 6-30-87, Cl. 514-461.000.
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  - de Groot, Jacob; and Haus, Thomas A. J., 4,635,018, Cl. 336-178.000.
- Hausberg, Hans-Heinrich; Bottch, Henning; Gottschlich, Rudolf; Seyfried, Christoph; and Minck, Klaus-Otto, to Merck Patent Gesellschaft mit beschrankter Haftung. Tetrahydrocarbazole derivatives and pharmaceutical compositions. 4,698,351, 10-6-87, Cl. 514-338.000.
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  - Ehlscheid, Guenter; and Hauschild, Gilbert, 4,714,394, Cl. 414-41.000.
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  - Wells, Leon W.; and Hauschild, Werner, 4,713,890, Cl. 33-366.000.
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  - Von Gentzkow, Wolfgang; Markert, Helmut; Hauschildt, Hans; and Schmiedel, Manfred, 4,638,019, Cl. 522-104.000.
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  - Bode, Werner; Franz, Peter; Hausdorf, Reiner; and Schulze, Gunter, 4,698,902, Cl. 29-597.000.
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  - Gimpelson, George E.; Holbrook, Cheryl L.; and Hause, Frederick N., 4,705,596, Cl. 156-643.000.
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  - Worner, Gunter; Moser, Franz; Tscheplak, Ernst; and Hausegger, Hermann, 4,662,239, Cl. 74-574.000.
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  - Villalobos, Luis; Hirsch, Steven B.; Hauser, Steven G.; and von Buelow, John, 4,644,326, Cl. 340-365.00R.
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- Hauser, Thomas M., to Mentor Corporation. Urine collection catheter. 4,640,688, 2-3-87, Cl. 604-352.000.
- Hauslaib, Wolfgang, to Mannesmann Aktiengesellschaft. Printer feeder for edge-punched record carriers. 4,643,603, 2-17-87, Cl. 400-616.100.
- Hauslaib, Wolfgang, to Mannesmann AG. Monitoring plural feeding in printers. 4,671,441, 6-9-87, Cl. 226-110.000.
- Hauslaib, Wolfgang, to Mannesmann AG. Matrix printer with electrostatic discharge. 4,707,157, 11-17-87, Cl. 400-616.000.
- Hausler, Nikolaus: *See*—
  - Komoss., Werner; Hausler, Nikolaus; and Elsner, Uwe, 4,640,059, Cl. 51-5.00D.
- Hausler, Rudolph H.; Savage, Allen L.; and Harrell, Jack B., Jr., to Petrolite Corporation. Multielectrode probe and circuitry and process pertaining thereto. 4,667,150, 5-19-87, Cl. 324-65.0CR.
- Hausman, Marvin S. Administration of "active" chondroitin sulfate A and "active" chondroitin sulfate C or mixtures thereof to mammals including humans. 4,640,912, 2-3-87, Cl. 514-54.000.
- Haussinger, Peter: *See*—
  - Baur, Karl; Haussinger, Peter; Fruhstorfer, Ludwig; and Neubert, Hans-Jurgen, 4,666,695, Cl. 423-571.000.
- Haussler, Hubert, to Beringer-Hydraulik GmbH. Hydraulic control system. 4,676,140, 6-30-87, Cl. 91-452.000.
- Haussler, Hubert: *See*—
  - Riedel, Hans-Peter; Zurcher, Josef; and Haussler, Hubert, 4,679,586, Cl. 137-491.000.
- Haussmann, August, to Hawera Probst GmbH & Co. Drilling tools. 4,696,355, 9-29-87, Cl. 175-395.000.
- Haussmann, Gerhard: *See*—
  - Gobien, Ernst; Haussmann, Gerhard; and Bruetsch, Edgar, 4,658,763, Cl. 123-41.82R.
  - Schley, Friedrich; Wunsche, Dieter; and Haussmann, Gerhard, 4,658,580, Cl. 60-322.000.
- Haussuhl, Siegfried: *See*—
  - Woike, Theo; Krasser, Wolfgang; and Haussuhl, Siegfried, 4,713,795, Cl. 365-119.000.
- Haustle Products Inc.: *See*—
  - Ping, Huang S., 4,658,844, Cl. 135-25.00A.
- Haut, Stephen A.: *See*—
  - Cox, Richard H.; Grubbs, Harvey J.; and Haut, Stephen A., 4,638,816, Cl. 131-276.000.
- Hautala, Jouko; and Pikkujamsa, Esa, to Oy Tampella AB. Thickener. 4,705,631, 11-10-87, Cl. 210-403.000.
- Hautmann, Edmund: *See*—
  - Ball, Wilfried; Stelzer, Heinz; Ritzl, Fritz; Siebold, Hermann; Hens, Peter; and Hautmann, Edmund, 4,676,524, Cl. 280-75.600.
- Hautmann, Horst: *See*—
  - von Philipp, Fritz; and Hautmann, Horst, 4,707,866, Cl. 4-228.000.
- Hauver, Bruce C., to LRC Electronics, Inc. Self-terminating coaxial connector. 4,660,921, 4-28-87, Cl. 339-177.00R.
- Haux, Denis: *See*—
  - Boirat, Robert; Faugeras, Philippe; Haux, Denis; and Mimeur, Jacques, 4,653,849, Cl. 350-96.220.
  - Boirat, Robert; Faugeras, Philippe; Haux, Denis; and Mimeur, Jacques, 4,653,850, Cl. 350-96.220.
- Havase, Shuzi: *See*—
  - Onishi, Yasunobu; Havase, Shuzi; Suzuki, Shuichi; and Wada, Moriyasu, 4,666,951, Cl. 522-8.000.
- Havel, Christopher M.: *See*—
  - Watson, John A.; and Havel, Christopher M., 4,665,026, Cl. 435-130.000.
- Havel, Karel. Variable color digital timepiece. 4,647,217, 3-3-87, Cl. 368-10.000.
- Havel, Karel. Electrical zero insertion force multiconnector. 4,684,193, 8-4-87, Cl. 439-259.000.
- Havel, Karel. Multicolor display device. 4,686,425, 8-11-87, Cl. 315-152.000.
- Havel, Karel. Electronic timepiece with transducers. 4,687,340, 8-18-87, Cl. 368-10.000.
- Havel, Karel. Switch position detector and indicator with multicolor light emitter. 4,692,612, 9-8-87, Cl. 250-229.000.
- Havel, Karel. Analog display timepiece. 4,702,615, 10-27-87, Cl. 368-82.000.
- Havel, Karel. Electronic timepiece with physical transducer. 4,705,406, 11-10-87, Cl. 368-10.000.
- Havel, Karel. Variable color analog timepiece. 4,707,141, 11-17-87, Cl. 368-11.000.
- Havel, Karel. Reciprocally actuated switch with rotatable contact selector. 4,716,263, 12-29-87, Cl. 200-11.00R.
- Havelka, Jilji; Jirasko, Petr; Koloc, Zdenek; and Vaclavik, Miroslav, to Elitex, koncern textilniho strojirenstvi. Grooved rotary yarn distributor for winding conical bobbins. 4,643,372, 2-17-87, Cl. 242-43.200.
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- Havelock, Ken. Arm tray for chair. 4,662,676, 5-5-87, Cl. 297-194.000.
- Havemann, Kim: *See*—
  - von Sivers, Rolf; Havemann, Kim; and Ilsemann, Bernhard, 4,690,238, Cl. 180-248.000.
- Havemann, Robert H., to Texas Instruments Incorporated. Method of low encroachment oxide isolation of a semiconductor device. 4,635,344, 1-13-87, Cl. 29-576.00W.
- Havemann, Robert H., to Texas Instruments Incorporated. Technique for fabricating a sidewall base contact with extrinsic base-on-insulator. 4,703,554, 11-3-87, Cl. 437-31.000.

Havemann, Robert H., to Texas Instruments Incorporated. Method of making vertical bipolar transistor having base above buried nitride dielectric formed by deep implantation. 4,706,378, 11-17-87, Cl. 437-24.000.

Havemann, Robert H.: *See*—
Hahn, Larry A.; and Havemann, Robert H., 4,674,173, Cl. 29-576.00B.

Haven, Kenneth R., to Attain, Inc. Test system manipulator arm. 4,695,024, 9-22-87, Cl. 248-281.100.

Havener, John W.: *See*—
Johnson, Robert D.; Havener, John W.; Reyner, Mark F.; Reyner, Franklin W., Jr.; Whitver, Loren K.; and Kilburn, Norman W., 4,697,721, Cl. 221-211.000.

Havenhill, Douglas D.: *See*—
Kral, Kevin D.; and Havenhill, Douglas D., 4,642,501, Cl. 310-90.500.

Havens, Marvin R., to W. R. Grace & Co., Cryovac Div. Vinylidene chloride composition and film made therefrom. 4,686,148, 8-11-87, Cl. 428-520.000.

Havens, Marvin R., to W. R. Grace & Co., Cryovac Div. Vinylidene chloride composition and film made therefrom. 4,698,111, 10-6-87, Cl. 156-244.110.

Havens, Stephen J.: *See*—
Bell, Vernon L.; and Havens, Stephen J., 4,661,558, Cl. 525-36.000.
Hergenrother, Paul M.; and Havens, Stephen J., 4,638,083, Cl. 560-104.000.

Haver & Boecker: *See*—
Haver, Eitel F.; Lutke-Foller, Heinz; and Wossmann, Reinhard, 4,691,744, Cl. 139-425.00R.

Haver, Eitel F.; Lutke-Foller, Heinz; and Wossmann, Reinhard, to Haver & Boecker. Filter wire cloth. 4,691,744, 9-8-87, Cl. 139-425.00R.

Haverberg Auto Laundry Equipment Company: *See*—
Van Brakel, Russel A., 4,694,523, Cl. 15-53.00B.

Haverdink, Virgil D.: *See*—
Lindstrom, Harold R.; and Haverdink, Virgil D., 4,633,791, Cl. 111-86.000.

Havig, Egil: *See*—
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Havira, R. Mark: *See*—
Ekstrom, Michael P.; and Havira, R. Mark, 4,692,908, Cl. 367-27.000.

Havlick, Richard S., to N. A. Taylor Co., Inc. Nun, can, and danger buoys construction. 4,669,989, 6-2-87, Cl. 441-1.000.

Havoic-Conroy, Stephanie M.: *See*—
Tolino, Ralph W.; Smith, Edward H.; and Havoic-Conroy, Stephanie M., 4,654,702, Cl. 358-100.000.

Havot, Henri: *See*—
Le Dain, Rene; and Havot, Henri, 4,677,399, Cl. 333-116.000.

Havrevold, Sveinung B.: *See*—
Molaug, Ole; Havrevold, Sveinung B.; and Skjoveland, Odd, 4,708,090, Cl. 119-51.00R.

Havriluk, Rod. Method and apparatus of measuring swimming technique. 4,654,010, 3-31-87, Cl. 434-254.000.

Havstad, Harold R., to Hudson Oxygen Therapy Sales Company. Percussor subassembly for generating gas bursts. 4,633,856, 1-6-87, Cl. 128-40.000.

Haw Harzer Apparatewerke KG, Schwemann & Althoff: *See*—
Fechner, Gerald; Meyer, Rolf; and Porrmann, Gerhard, 4,664,741, Cl. 156-574.000.

Hawai, Yasuo: *See*—
Kataoka, Akira; Hawai, Yasuo; Fujii, Hidehiko; Oya, Tetsuro; and Fujino, Akihiko, 4,692,010, Cl. 354-273.000.
Kataoka, Akira; and Hawai, Yasuo, 4,699,490, Cl. 354-271.100.

Hawe, Malcolm; Marshall, David; and Walker, John R., to Allied Colloids Ltd. Thermal energy storage compositions. 4,673,520, 6-16-87, Cl. 252-70.000.

Hawe, Malcolm: *See*—
Dymond, Brian; Langley, John; and Hawe, Malcolm, 4,670,501, Cl. 524-458.000.
Flesher, Peter; Farrar, David; Hawe, Malcolm; and Langley, John, 4,702,844, Cl. 210-733.000.

Hawelka, Walter; and Irsigler, Walter, to Konrad Rosenbauer KG. Method and means for producing and dispensing extinguishing fluids. 4,645,009, 2-24-87, Cl. 169-15.000.

Hawelka, Walter; and Staudinger, Hermann, to Konrad Rosenbauer KG. Service vehicle. 4,683,976, 8-4-87, Cl. 180-311.000.

Hawener, Juergen; and Hain, Klaus, to Dr. Ing. h.c.F. Porsche Aktiengesellschaft. Adjusting device for an airplane propulsion system. 4,693,670, 9-15-87, Cl. 416-25.000.

Hawener, Jurgen: *See*—
von Broock, Ulrich; and Hawener, Jurgen, 4,706,901, Cl. 244-54.000.

Hawera Probst GmbH & Co.: *See*—
Haussmann, August, 4,696,355, Cl. 175-395.000.
Muller, Norbert; and Scheuch, Anton, 4,667,755, Cl. 175-330.000.
Muller, Norbert; and Moser, Bernhard, 4,699,226, Cl. 175-323.000.

Hawerkamp, Manfred. Method and apparatus for forming drain pipes. 4,678,526, 7-7-87, Cl. 156-195.000.

Hawes, Timothy R.; Antekeier, Steven A.; Cryderman, Glenn R.; Munger, David L.; Gould, Leonard A.; and Eklund, Louis E., Jr., to Fleet Engineers Inc. Vehicle quarter fender and assembly for mounting the same. 4,706,980, 11-17-87, Cl. 280-154.000.

Hawiger, Jack J.; Timmons, Sheila; Lukas, Thomas J.; and Kloczewiak, Marek, to New England Deaconess Hospital. Method of inhibiting and inducing human platelet aggregation. 4,661,471, 4-28-87, C 514-13.000.

Hawiger, Jack J.; Timmons, Sheila; and Kloczewiak, Marek, to Ne England Deaconess Hospital. Method of inhibiting binding of v Willebrand factor to human platelets and inducing interaction o platelets with vessel walls. 4,666,884, 5-19-87, Cl. 514-13.000.

Hawiger, Jack J.; Timmons, Sheila; and Kloczewiak, Marek, to Ne England Deaconess Hospital Corporation. Method of producin biologically active molecules having extended life time. 4,701 10-27-87, Cl. 514-21.000.

Hawk, D. Wayne: *See*—
Kozyrski, Vincent T.; and Hawk, D. Wayne, 4,674,66 C 227-147.000.

Hawk, Gary W.: *See*—
Szczesny, David S.; and Hawk, Gary W., 4,653,828, Cl. 1 91.00R.

Hawk, James L. Self-propelled dredge. 4,676,052, 6-30-87, Cl. 56-8.00

Hawk, James L. Aquatic weed control method and appara 4,696,149, 9-29-87, Cl. 56-8.000.

Hawk, Timothy E.: *See*—
Beehler, David E.; Drake, Timothy E.; and Hawk, Timoth 4,696,357, Cl. 177-145.000.

Hawk, Woodrow D.: *See*—
Dixon, Glen A.; McCloskey, Clark E.; Chambers, David L.; Haw Woodrow D.; and McCracken, Oliver W., 4,633,95 C 166-372.000.
Dixon, Glenn A.; McCloskey, Clark E.; Chambers, David L.; Hawk, Woodrow D.; and McCracken, Oliver W., 4,685,52 C 166-372.000.

Hawke, Basil C., to United States of America, Energy. Fuel handlin apparatus for a nuclear reactor. 4,647,423, 3-3-87, Cl. 376-264.00

Hawke, Earle M. Method and apparatus for controlling caloric ma 4,650,218, 3-17-87, Cl. 283-67.000.

Hawke, Ronald S., to United States of America, Energy. Low volta arc formation in railguns. 4,706,542, 11-17-87, Cl. 89-8.000.

Hawker, Ralph L.; and Spector, George. Electrical switches. 4,680,43 7-14-87, Cl. 174-57.000.

Hawker Siddeley Canada, Inc.: *See*—
Woollam, Ronald F.; and MacDougall, Maurice L., 4,686,97 C 105-4.100.

Hawkes, Graham S., to Hawkes, Graham S.; and Earle, Sylvia Apparatus providing tactile feedback to operators of remotely con trolled manipulators. 4,655,673, 4-7-87, Cl. 414-730.000.

Hawkes, Graham S.; and Jeffrey, David C., to Deep Ocean Engineerin Incorporated. Tether cable management apparatus and method fo remotely-operated underwater vehicle. 4,686,927, 8-18-87, C 114-312.000.

Hawkes, Peter C., to Andrews Maclaren Limited. Collapsible supp with armrests. 4,648,651, 3-10-87, Cl. 297-45.000.

Hawkes, Richard B.: *See*—
Mowry, Harry E.; and Hawkes, Richard B., 4,641,825 C 270-53.000.

Hawkesworth, Michael R.: *See*—
Stewart, Peter A. E.; Hawkesworth, Michael R.; and Wilson Roger C., 4,697,079, Cl. 250-303.000.

Hawkett, Brian S.: *See*—
Le, Minh V.; Hawkett, Brian S.; and Elliott, William T., 4,661,5 Cl. 523-409.000.

Hawkey, Dale F. Pulser circuit. 4,651,021, 3-17-87, Cl. 307-106.000

Hawkey, Dale F.: *See*—
Reeves, Roger D.; and Hawkey, Dale F., 4,641,531, Cl. 73-62.2

Hawkeye Concrete Products Co.: *See*—
Schmidgall, Hartzell H.; and Schmidgall, Jon A., 4,708,621, C 425-183.000.
Schmidgall, Jon A.; and Schmidgall, Hartzell H., 4,657,49 C 425-112.000.

Hawkins, Billy J., Sr.: *See*—
Walker, Don W.; and Rush, Lynn, 4,696,110, Cl. 33-137.00R.

Hawkins, Clive F. J., to PAG Limited; and PAG America Ltd. Batt connector. 4,709,974, 12-1-87, Cl. 439-345.000.

Hawkins, David E. Arm wrestling and curling machine appara 4,634,115, 1-6-87, Cl. 272-67.000.

Hawkins, David M.: *See*—
Calverley, Simon G.; Carter, David C. M.; Clarke, Peter A Dowding, John G.; Hawkins, David M.; and Mitchell, Robert C. S., 4,690,604, Cl. 414-403.000.

Hawkins, Donald K.: *See*—
Greco, Joseph A., II; Hawkins, Donald K.; LeGrys, Scott R.; a Kit Man, Wai, 4,685,063, Cl. 364-518.000.

Hawkins, Eleanor C.: *See*—
Gelman, Robert A.; and Hawkins, Eleanor C., 4,689,40 536-98.000.

Hawkins, Gale: *See*—
Hamilton, Gene; Hawkins, Gale; and Potthast, Lynn R., 4,635 Cl. 296-37.600.

Hawkins, Gene: *See*—
Montgomery, Gary; and Hawkins, Gene, 4,682,700 215-216.000.

Hawkins, Geoffrey R.; and Kowcz, Oksana A., to Richardson-V Inc. Peroxide-containing conditioning shampoo. 4,656,043, 4-7-87 424-70.000.

Hawkins, Gilbert A., to Eastman Kodak Company. Semicondu material on a substrate, said substrate comprising, in order, a laye organic polymer, a layer of metal or metal alloy and a layer of die tric material. 4,639,277, 1-27-87, Cl. 148-33.300.

Hawkins, James M., to BTR PLC. Exposure suit with an attached lifejacket. 4,673,366, 6-16-87, Cl. 441-90.000.

Hawkins, Jeffrey T.; and Schievelbein, Vernon H., to Texaco Inc. Method of improving conformance in steam floods with carboxylate steam foaming agents. 4,637,466, 1-20-87, Cl. 166-272.000.

Hawkins, Joel W.; and Hawkins, Patrick G. Wheeled hoist. 4,669,703, 6-2-87, Cl. 254-8.00B.

Hawkins, Joel W.; and Hawkins, Patrick G. Wheeled stand assembly. 4,705,264, 11-10-87, Cl. 269-17.000.

Hawkins, John R.: *See—*
  de Nijs, Jacob; Hawkins, John R.; and Fuller, William H., 4,647,713, Cl. 174-21.00R.

Hawkins, Junior F. Sanitary door handle having a material advancing mechanism. 4,658,469, 4-21-87, Cl. 16-110.00R.

Hawkins, Michael R., to T. W. Ward Industrial Plant Limited. Water level controller for a boiler. 4,662,390, 5-5-87, Cl. 137-392.000.

Hawkins, Nicholas J.; and Saltarelli, Robert, to W. Vinten Limited. Incremental control. 4,716,518, 12-29-87, Cl. 364-184.000.

Hawkins, Patrick G.: *See—*
  Hawkins, Joel W.; and Hawkins, Patrick G., 4,669,703, Cl. 254-8.00B.
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Hawkins, Phillip J.; Kasner, William H.; and Miller, Richard A., to Westinghouse Electric Corp. Laser welding head for sleeve-to-tube welding. 4,694,137, 9-15-87, Cl. 219-121.0LC.

Hawkins, Ralph G.; and Fields, George, Jr., to General Electric Company. Range oven vent system. 4,633,850, 1-6-87, Cl. 126-21.00R.

Hawkins, Richard A.; and Hunter, Merle D., to City of Columbus, Ohio, The. Tuyere construction for refuse burning boiler systems. 4,694,757, 9-22-87, Cl. 110-271.000.

Hawkins, Robert E., to Uniset Corporation. Hammer-activated fastener tool. 4,651,912, 3-24-87, Cl. 227-8.000.

Hawkins, Ronald G., to Aluminum Company of America. Overhead conductor damping device with die cast components and method of making the same. 4,680,424, 7-14-87, Cl. 174-42.000.

Hawkins, Ronald G., to Aluminum Company of America. Overhead conductor damper with stamped and sand-cast parts. 4,714,799, 12-22-87, Cl. 174-42.000.

Hawkins, Stephen D.: *See—*
  Corrington, Donald G.; Hawkins, Stephen D.; and Sable, Daniel M., 4,688,250, Cl. 380-23.000.

Hawkins, Thomas B., to Compugraphic Corporation. Method for producing a scaleable typeface data. 4,675,830, 6-23-87, Cl. 364-518.000.

Hawkins, Vernon F.; and Louks, Willard H. Automatic air purifier for vehicles. 4,658,707, 4-21-87, Cl. 98-2.110.

Hawkins, Wallace H.; and Gosnell, Calvin B., to Red Arrow International Inc. Anti-jackknifing control system, apparatus and method. 4,700,966, 10-20-87, Cl. 280-432.000.

Hawkins, William G.: *See—*
  Drake, Donald J.; Hawkins, William G.; Markham, Roger G.; and LaDonna, Richard V., 4,638,328, Cl. 346-75.000.
  Drake, Donald J.; Hawkins, William G.; and Campanelli, Michael R., 4,639,748, Cl. 346-140.00R.

Hawks Edge, Inc.: *See—*
  Brooker, Dennis B., 4,703,560, Cl. 30-155.000.

Hawks, Mark W.: *See—*
  Dykstra, Ronald A.; Hawks, Mark W.; and De Jong, Jerry M., 4,686,609, Cl. 362-61.000.

Hawks, Robert A. Rectal speculum with obturator. 4,712,536, 12-15-87, Cl. 128-3.000.

Hawks, Roger E.: *See—*
  Davidescu, Reghina; Striebel, Randy F.; and Hawks, Roger E., 4,671,964, Cl. 426-461.000.

Hawkshaw, John K., to Field Aviation Company Limited. Fire bombing and fire bombers. 4,671,472, 6-9-87, Cl. 244-136.000.

Hawkswell, Victor T., to USM Corporation. Machines for handling electrical components. 4,687,152, 8-18-87, Cl. 242-55.000.

Hawle, Erwin, to E. Hawle & Co. Clamping ring for use in a pipe joint. 4,657,288, 4-14-87, Cl. 285-420.000.

Hawle, Erwin, to E. Hawle & Co. A method of making a clamping ring for use in a pipe joint. 4,706,529, 11-17-87, Cl. 82-1.00C.

Hawley, Frank D.; and Rogers, Russell L., to Aeroquip Corporation. Closed circuit refueling nozzle. 4,638,842, 1-27-87, Cl. 141-302.000.

Hawley, James M. Engine for conversion of thermal radiation to direct current. 4,658,171, 4-14-87, Cl. 310-306.000.

Hawley, Mark R.; and Lucas, Gerald B., to D. C. Brennan Firearms, Inc. Flash suppressor. 4,664,014, 5-12-87, Cl. 89-14.200.

Hawley, Michael E.; and Roth, Jack, to Enterprises International, Inc. Paper roll elevator lift. 4,704,064, 11-3-87, Cl. 414-592.000.

Hawley, Philip R.: *See—*
  Kypke, Dean A.; Hawley, Philip R.; Britton, Thomas N., II; and White, George J., 4,662,788, Cl. 405-204.000.

Hawman, Eric G., to Siemens Gammasonics, Inc. Bilateral collimator for rotational camera transaxial SPECT imaging of small body organs. 4,659,935, 4-21-87, Cl. 250-505.100.

Hawman, Eric G.; and Hsieh, Jiang, to Siemens Gammasonics, Inc. Astigmatic collimator. 4,670,657, 6-2-87, Cl. 250-505.100.

Haworth, Inc.: *See—*
  Chatterson, Louis M., 4,[illegible]48,527, Cl. 220-22.400.
  Chatterson, Louis M.; and McKernan, Thomas, 4,662,689, Cl. 312-219.000.
  Finkbeiner, James; and Brookhouse, Lee, 4,703,985, Cl. 439-207.000.
  Kortering, Randall L.; and Berry, Gordon C., 4,633,789, Cl. 108-152.000.
  Kortering, Randall L.; and Gartland, Paul S., 4,660,477, Cl. 108-108.000.
  McKernan, Thomas J.; and Wilcockson, Brian, 4,692,984, Cl. 29-445.000.
  Soberalski, Edward D.; and Miller, Craig, 4,706,919, Cl. 248-281.100.
  Tillmann, Ditmar K., 4,666,223, Cl. 339-32.00R.
  Wilson, Harold R.; and Belka, Allen B., 4,654,756, Cl. 361-428.000.
  Wilson, Harold R.; Ottenjan, Gary; and Bischoff, Gary, 4,703,598, Cl. 52-238.100.

Hawrylenko, Alexander, to Infors GmbH. Infusion pump. 4,668,220, 5-26-87, Cl. 604-155.000.

Hawrylko, Roman B., to B. F. Goodrich Company, The. Process for producing porous spherical polyvinyl chloride particles. 4,668,707, 5-26-87, Cl. 521-56.000.

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Hawrylo, Frank Z.: *See—*
  Harwood, Robert E.; and Hawrylo, Frank Z., 4,693,649, Cl. 409-293.000.

Hawryluk, Raymond: *See—*
  Johnson, Clyde R.; Hawryluk, Raymond; and Katrencik, Gerald, 4,702,694, Cl. 432-133.000.

Haws, Ben E.: *See—*
  Vandenberg, August; Vandenberg, Ben W.; Vandenberg, Andrew W.; and Haws, Ben E., 4,715,321, Cl. 119-14.030.

Haws, Spencer K. Auxiliary knob for gas valve to annunciate open condition. 4,665,386, 5-12-87, Cl. 340-540.000.

Hawthorne, Louis. Integrated camcorder viewing and support system. 4,672,436, 6-9-87, Cl. 358-93.000.

Hawthorne, M. Marion. Well logging device and method. 4,662,218, 5-5-87, Cl. 73-155.000.

Hay, James V.; Wexler, Barry A.; and Zimmerman, Donna F., to Du Pont de Nemours, E. I., and Company. Herbicidal sulfonamides. 4,666,501, 5-19-87, Cl. 71-90.000.

Hay, James V.; and Levitt, George, to Du Pont de Nemours, E. I., and Company. Herbicidal 2,6-disubstituted benzylsulfonamides and benzenesulfamates. 4,678,500, 7-7-87, Cl. 71-92.000.

Hay, James V.; and Sauers, Richard F., to Du Pont de Nemours, E. I., and Company. Herbicidal benzenesulfonamides. 4,687,508, 8-18-87, Cl. 71-92.000.

Hay, John; Smith, Leonard I.; and Foster, George E., to Norton Company. Ceramic bonded grinding wheel. 4,634,453, 1-6-87, Cl. 51-293.000.

Hay, Robert A.: *See—*
  Agarwal, Anil K.; and Hay, Robert A., 4,678,762, Cl. 501-127.000.

Hay, Robert A., II, to Dow Chemical Company, The. Waste disposal apparatus. 4,647,213, 3-3-87, Cl. 366-199.000.

Hay, Robert R.: *See—*
  Chan, C. S.; and Hay, Robert R., 4,694,308, Cl. 346-140.00R.
  Chan, C. S.; and Hay, Robert R., 4,716,423, Cl. 346-140.00R.

Hayabuchi, Masahiro: *See—*
  Tsukamoto, Kazumasa; Hayabuchi, Masahiro; Maeda, Koji; Watanabe, Kazuaki; and Taga, Yutaka, 4,693,348, Cl. 192-3.290.

Hayafuji, Yoshinori, to Sony Corporation. Faraday cups. 4,703,256, 10-27-87, Cl. 324-71.300.

Hayakawa, Akihiko: *See—*
  Hayashi, Mitsuji; Niwa, Takashi; Hayakawa, Akihiko; Bingo, Hideyuki; Kazusaka, Shoji; and Konishi, Keisuke, 4,701,582, Cl. 200-61.420.

Hayakawa, Eiji: *See—*
  Kato, Yasuki; Hayakawa, Eiji; Furuya, Kunitoshi; and Kondo, Akira, 4,675,183, Cl. 424-85.000.

Hayakawa, Futomi; and Onoda, Kazuo, to HY-BEC Corporation. Soldering apparatus. 4,650,950, 3-17-87, Cl. 219-85.0BA.

Hayakawa, Hiroshi: *See—*
  Hanawa, Masatoshi; and Hayakawa, Hiroshi, 4,675,608, Cl. 324-314.000.
  Kobayashi, Masafumi; Nagaoka, Hiroyasu; Hayakawa, Hiroshi; and Kogai, Masamiti, 4,665,832, Cl. 104-165.000.

Hayakawa, Junji: *See—*
  Yamashita, Hiroshi; Fujii, Kanenaga; Hayakawa, Junji; Komiyama, Toru; and Tamaru, Sinji, 4,673,243, Cl. 350-96.150.

Hayakawa, Kazunobu: *See—*
  Koike, Kazuyuki; and Hayakawa, Kazunobu, 4,658,138, Cl. 250-310.000.

Hayakawa, Kazushi: *See—*
  Shoji, Hisashi; Haneda, Satoshi; Hiratsuka, Seiichiro; Fuma, Hiroshi; Soma, Shinobu; Itaya, Masahiko; Tamura, Akihiko; and Hayakawa, Kazushi, 4,669,864, Cl. 355-15.000.

Hayakawa, Kimiaki: *See—*
  Tanioka, Hiroshi; Ogino, Yoshitaka; Inoue, Yutaka; Naito, Masataka; and Hayakawa, Kimiaki, 4,706,128, Cl. 358-286.000.

Hayakawa, Kiyoharu: *See—*
  Takahashi, Hideaki; Kondo, Haruyoshi; Takeuchi, Takashi; and Hayakawa, Kiyoharu, 4,661,234, Cl. 204-406.000.

Hayakawa, Kiyonori: *See—*
  Shimamura, Toshiki; and Hayakawa, Kiyonori, 4,635,153, Cl. 360-125.000.

Hayakawa, Kiyoshi: *See—*
Yamakita, Hiromi; Hayakawa, Kiyoshi; Tazawa, Masato; and Taoda, Hiroshi, 4,647,348, Cl. 204-59.00R.

Hayakawa, Kizo: *See—*
Yamanaka, Teruo; Sugimoto, Takao; and Hayakawa, Kizo, 4,680,960, Cl. 73-117.300.

Hayakawa, Kohji: *See—*
Murata, Seiichiro; Tateishi, Masaru; Hayakawa, Kohji; Sakamoto, Takeshi; and Mukasa, Kohsuke, 4,674,430, Cl. 114-355.000.

Hayakawa, Masaharu, to Mitsubishi Denki Kabushiki Kaisha. Tape amount displaying apparatus. 4,638,394, 1-20-87, Cl. 360-137.000.

Hayakawa, Masaharu: *See—*
Kojima, Masanori; and Hayakawa, Masaharu, 4,686,584, Cl. 360-10.300.
Serizawa, Yoshinori; and Hayakawa, Masaharu, 4,644,415, Cl. 360-10.300.

Hayakawa, Masao: *See—*
Miyagawa, Teiji; Iwamura, Yoshio; and Hayakawa, Masao, 4,696,452, Cl. 251-25.000.

Hayakawa, Masaru; Yoshida, Takeshi; and Kaiya, Atsushi, to Nippon Petrochemicals Co., Ltd. Binder for dry sand mold and method of its usage. 4,691,759, 9-8-87, Cl. 164-526.000.

Hayakawa, Masatoshi; Aso, Koichi; Ochiai, Yoshitaka; Matsuda, Hideki; Hayashi, Kazuhiko; Ishikawa, Wataru; and Iwasaki, You, to Sony Corporation. Magnetic composite film. 4,707,417, 11-17-87, Cl. 428-630.000.

Hayakawa, Masatoshi: *See—*
Hayashi, Kazuhiko; Ochiai, Yoshitaka; Hayakawa, Masatoshi; Matsuda, Hideki; Ishikawa, Wataru; Iwasaki, You; and Aso, Koichi, 4,640,871, Cl. 428-611.000.
Makino, Yoshimi; Ochiai, Yoshitaka; Uedaira, Satoru; Hotai, Kazuhide; Aso, Koichi; and Hayakawa, Masatoshi, 4,639,278, Cl. 148-108.000.

Hayakawa, Mitsuru, to Victor Company of Japan, Ltd. Limiter circuit. 4,709,204, 11-24-87, Cl. 323-303.000.

Hayakawa, Mitsutaka: *See—*
Ito, Yasuro; Higuchi, Yoshiro; Shiki, Takeshi; Tsuji, Yukikazu; Tsuji, Masanori; and Hayakawa, Mitsutaka, 4,686,852, Cl. 73-61.00R.
Ito, Yasuro; Higuchi, Yoshiro; Shiki, Takeshi; Tsuji, Yukikazu; Tsuji, Masanori; and Hayakawa, Mitsutaka, 4,715,719, Cl. 366-2.000.

Hayakawa, Naohiro: *See—*
Arakawa, Kazuo; Hayakawa, Naohiro; Yoshida, Kenzo; Tamura, Naoyuki; Nakanishi, Hiroshi; Yagi, Tetsuya; and Kuroiwa, Shintaro, 4,664,829, Cl. 252-52.00R.
Arakawa, Kazuo; Hayakawa, Naohiro; Yoshida, Kenzo; Yagi, Tetsuya; and Nakanishi, Hiroshi, 4,711,732, Cl. 252-28.000.

Hayakawa, Naoji: *See—*
Kan, Fumitaka; Hayakawa, Naoji; Majima, Toshiaki; Takenouchi, Masanori; Yamamoto, Mitsuru; Suzuki, Hidetoshi; and Nomura, Ichiro, 4,675,699, Cl. 346-76.00R.

Hayakawa, Naoki: *See—*
Iwamoto, Tomiyuki; Hayakawa, Naoki; and Matsubara, Shigeru, 4,657,540, Cl. 604-408.000.
Samejima, Masayoshi; Matsuda, Saburo; Wakabayashi, Toshio; and Hayakawa, Naoki, 4,670,261, Cl. 424-127.000.

Hayakawa, Noboru: *See—*
Tabata, Shin-ichi; Suzuki, Tomio; Hamamoto, Youichi; Hayakawa, Noboru; and Watanabe, Kaoru, 4,655,925, Cl. 210-605.000.

Hayakawa, Shoichi: *See—*
Saito, Muneo; and Hayakawa, Shoichi, 4,673,921, Cl. 340-539.000.

Hayakawa, Shuzo: *See—*
Taniguchi, Masao; Morita, Yoshiharu; Hayakawa, Shuzo; and Kawashima, Osamu, 4,684,732, Cl. 546-144.000.

Hayakawa, Takahiro: *See—*
Matsumura, Toshimi; Hasegawa, Takashi; Hayakawa, Takahiro; Sumitani, Shinya; and Sakakibara, Shuji, 4,667,634, Cl. 123-357.000.
Matsumura, Toshimi; Sumitani, Shinya; Hayakawa, Takahiro; Hasegawa, Takashi; and Sakakibara, Shuji, 4,705,000, Cl. 123-357.000.

Hayakawa, Takashi: *See—*
Ehara, Shaw; Kojima, Yoshimi; Imada, Eiji; Hayakawa, Takashi; and Matsuyama, Toshiro, 4,687,724, Cl. 430-84.000.
Kojima, Yoshimi; Narikawa, Shiro; Hayakawa, Takashi; Nojima, Hideo; Imada, Eiji; Matsuyama, Toshiro; and Ehara, Shaw, 4,666,816, Cl. 430-128.000.

Hayakawa, Takayuki: *See—*
Fujii, Hideji; Hayakawa, Takayuki; Sato, Shigeru; and Yanagihara, Eiichi, 4,640,729, Cl. 156-257.000.

Hayakawa, Takumi: *See—*
Komaki, Akio; Hayakawa, Takumi; Yoneda, Tadashi; Miura, Asahiko; Wada, Hironao; Matsubayashi, Satoshi; and Takemasa, Arihiko, 4,652,505, Cl. 429-131.000.

Hayakawa, Toshiaki: *See—*
Sugimoto, Tadao; and Hayakawa, Toshiaki, 4,713,318, Cl. 430-567.000.

Hayakawa, Toshihiro; and Sugiura, Hiroshi, to Toyota Jidosha Kabushiki Kaisha. Wind direction adjusting mechanism for air conditioner. 4,653,386, 3-31-87, Cl. 98-40.280.

Hayakawa, Toshihiro, to Toyota Jidosha Kabushiki Kaisha. Defroster structure for vehicle. 4,693,416, 9-15-87, Cl. 98-2.090.

Hayakawa, Toshiro; Miyauchi, Nobuyuki; Yano, Seiki; and Suyama, Takahiro, to Sharp Kabushiki Kaisha. Semiconductor laser. 4,637,029, 1-13-87, Cl. 372-45.000.

Hayakawa, Toshiro; Suyama, Takahiro; and Yamamoto, Saburo, to Sharp Kabushiki Kaisha. Optical semiconductor apparatus. 4,691,214, 9-1-87, Cl. 357-17.000.

Hayakawa, Toshiro; Suyama, Takahiro; Takahashi, Kohsei; and Yamamoto, Saburo, to Sharp Kabushiki Kaisha. Apparatus for the growth of semiconductor crystals. 4,693,207, 9-15-87, Cl. 118-715.000.

Hayakawa, Toshiro; Suyama, Takahiro; and Yamamoto, Saburo, to Sharp Kabushiki Kaisha. Stripe geometry semiconductor laser device. 4,694,460, 9-15-87, Cl. 372-45.000.

Hayakawa, Tsuneyasu: *See—*
Yokoyama, Nobuyoshi; and Hayakawa, Tsuneyasu, 4,715,807, Cl. 431-1.000.

Hayakawa, Yasumitsu, to Toko, Inc. Hybrid circuit device. 4,656,44 4-7-87, Cl. 333-140.000.

Hayakawa, Yoichi; Kawai, Masao; Taga, Yutaka; Watanabe, Kazuaki; and Harada, Yoshiharu, to Aisin-Warner Limited; and Toyota Jidosha Kabushiki Kaisha. Control system for selectively switchable two/four wheel drive automatic transmission system shifting transfer transmission according to main transmission speed stage. 4,679,45 7-14-87, Cl. 74-752.00A.

Hayakawa, Yoichi; Kawai, Masao; Yoshizawa, Kenichi; Harada, Yoshiharu; and Fukumura, Kagenori, to Aisin-Warner Limited; and Toyota Jidosha Kabushiki Kaisha. Engine throttle opening dependent hydraulic vehicular transmission system. 4,697,479, 10-6-87, Cl. 74-867.000.

Hayakawa, Yoichi; Kawai, Masao; Nishikawa, Seiichi; and Fukumura, Kagenori, to Aisin-Warner Limited. Shift shock suppression in automatic transmission. 4,713,989, 12-22-87, Cl. 74-869.000.

Hayakawa, Yoichi: *See—*
Fujiura, Kaiya; Hayakawa, Yoichi; Taga, Yutaka; and Nakamura, Shinya, 4,663,992, Cl. 74-869.000.
Fujiura, Kaiya; Hayakawa, Yoichi; Harada, Yoshiharu; and Fukumura, Kagenori, 4,699,249, Cl. 184-11.100.
Harada, Yoshiharu; Taga, Yutaka; Nishikawa, Seiichi; Hayakawa, Yoichi; and Kawai, Masao, 4,688,449, Cl. 74-740.000.
Harada, Yoshiharu; Taga, Yutaka; Fukumura, Kagenori; Hayakawa, Yoichi; and Kawai, Masao, 4,693,143, Cl. 74-866.00
Harada, Yoshiharu; Taga, Yutaka; Fukumura, Kagenori; Hayakawa, Yoichi; and Kawai, Masao, 4,708,032, Cl. 74-866.00
Harada, Yoshiharu; Taga, Yutaka; Fukumura, Kagenori; Hayakawa, Yoichi; and Kawai, Masao, 4,713,988, Cl. 74-868.00
Hosono, Chihiro; Hayakawa, Yoichi; Kubo, Seitoku; Taga, Yutaka; and Nakamura, Shinya, 4,673,072, Cl. 192-3.570.

Hayakawa, Yoshio: *See—*
Ikegami, Yoshiki; Matsumoto, Fumio; Sato, Yasuaki; and Hayakawa, Yoshio, 4,663,731, Cl. 364-900.000.

Hayakawa, Yoshitaka, to Mitsubishi Denki Kabushiki Kaisha. Automatic circumferential welding apparatus. 4,645,902, 2-24-87, Cl. 219-125.110.

Hayakawa, Yoshiyuki: *See—*
Hirotsuka, Motohiko; Harada, Tetsuro; Ohtsubo, Nobuhiro; Kawade, Hiroyuki; Hayakawa, Yoshiyuki; and Taniguchi, Hiroshi, 4,702,927, Cl. 426-467.000.

Hayama, Hajime: *See—*
Hinotani, Katsuhiro; Hayama, Hajime; Kishimoto, Shunichi; Miwa, Takashi; Funazo, Yasuo; and Kouno, Kazuhiro, 4,654,559, Cl. 313-422.000.

Hayama, Kazuhide: *See—*
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Yazaki, Takao; Hattori, Satoru; Hattori, Kazuhide; Matsum Takumi; Shibuya, Nobuhiro; Hayama, Kazuhide; and Itoh, Isa 4,659,618, Cl. 428-317.700.

Hayama, Kenichi: *See—*
Nakanishi, Sadayuki; and Hayama, Kenichi, 4,673,164, Cl. 251-174.000.

Hayama, Mamoru, to Mazda Motor Corporation. Cruise control system for vehicle. 4,709,595, 12-1-87, Cl. 74-864.000.

Hayama, Mamoru: *See—*
Mastumoto, Makoto; and Hayama, Mamoru, 4,697,478, Cl. 74-859.000.

Hayama, Masashi: *See—*
Kambe, Hirokazu; Kuroda, Kazuhiro; and Hayama, Masashi, 4,689,263, Cl. 428-212.000.

Hayama, Noriyuki: *See—*
Kawakatsu, Akira; Yuge, Yooji; Hayama, Noriyuki; Saito, Tokuyoshi; and Maeda, Umio, 4,701,663, Cl. 313-112.000.

Hayami, Hiroyuki; and Utsumi, Atsushi, to Dainichi-Nippon Cables, Ltd. Optical multiple fiber. 4,690,500, 9-1-87, Cl. 350-96.250.

Hayami, Hiroyuki: *See—*
Utsumi, Atsushi; and Hayami, Hiroyuki, 4,647,153, Cl. 350-96.25

Hayami, Ryozo: *See—*
Ebata, Yoshihiro; Hayami, Ryozo; Tamari, Nobuyuki; Toiban Yasuo; and Kinoshita, Makoto, 4,707,416, Cl. 428-627.000.

Hayano, Fusakazu: *See—*
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Shiraki, Toshinori; Hayano, Fusakazu; and Morita, Hide 4,657,971, Cl. 525-57.000.

Hayano, Makoto; Nagatomo, Shigemi; Sakata, Hirotsugu; Hat Mitsuo; and Hattori, Hitoshi, to Kabushiki Kaisha Toshiba. Scr compressor with suction port in stationary end plate. 4,673, 6-16-87, Cl. 418-15.000.

Hayano, Makoto; Nagatomo, Shigemi; Sakata, Hirotsugu; Hat Mitsuo; and Hattori, Hitoshi, to Kabushiki Kaisha Toshiba. Sc compressor with lower and higher pressure chambers acting on the orbiting end plate. 4,708,607, 11-24-87, Cl. 418-55.000.

Hayano, Makoto: *See*—
Sakashita, Wataru; Chiyoya, Tsukasa; Ichikawa, Tsutomu; and Hayano, Makoto, 4,645,437, Cl. 418-55.000.
Sakata, Hirotsugu; Nagatomo, Shigemi; Hayano, Makoto; and Hatori, Mitsuo, 4,696,630, Cl. 418-55.000.

Hayaoka, Tatsumi: *See*—
Kato, Shoichi; Shimano, Shizuo; Hayaoka, Tatsumi; and Masui, Akio, 4,652,574, Cl. 514-347.000.

Hayasaka, Akio: *See*—
Uehara, Keijiro; Higuchi, Hisayuki; and Hayasaka, Akio, 4,640,721, Cl. 148-188.000.

Hayasaka, Eiji: *See*—
Tabata, Yusuke; Hayasaka, Eiji; Hashimoto, Toshitomo; Horima, Hiroaki; Omori, Toshiyuki; and Kurosawa, Akira, 4,662,712, Cl. 350-96.230.

Hayasaka, Kourou: *See*—
Takahashi, Yoshihiro; Abe, Hiraku; and Hayasaka, Kourou, 4,661,697, Cl. 250-231.0SE.

Hayasaka, Nobuo; Okano, Haruo; and Horiike, Yasuhiro, to Kabushiki Kaisha Toshiba. Pattern-forming method. 4,698,238, 10-6-87, Cl. 427-53.100.

Hayasaka, Toshiaki: *See*—
Uchiyama, Seiichi; Hayasaka, Toshiaki; and Ohbayashi, Yasuo, 4,673,693, Cl. 518-713.000.

Hayasaki, Koichi; and Sugano, Kazuhiko, to Nissan Motor Co., Ltd. Downshift timing and engine brake control for automatic transmission. 4,680,992, 7-21-87, Cl. 74-869.000.

Hayasaki, Koichi: *See*—
Sugano, Kazuhiko; and Hayasaki, Koichi, 4,667,783, Cl. 192-- 00A.

Hayase, Isao: *See*—
Takahashi, Yukio; Hayase, Isao; Amano, Keijirou; Mizukami, Masao; and Ishiguri, Masaaki, 4,711,620, Cl. 418-96.000.
Takao, Kunihiko; Kawashima, Kenichi; Nakamura, Yozo; and Hayase, Isao, 4,636,148, Cl. 417-286.000.

Hayase, Masashi: *See*—
Yasui, Ken K.; William, Neil R.; Ecklund, Richard C.; Hayase, Masashi; and Walkington, Robert J., 4,708,008, Cl. 72-60.000.

Hayase, Syozo: *See*—
Torii, Sigeru; Tanaka, Hideo; Sasaoka, Michio; Uto, Seiryu; and Hayase, Syozo, 4,713,452, Cl. 540-358.000.

Hayase, Yoshio; Morita, Koichi; Ide, Kinya; and Takahashi, Toshio, to Shionogi & Co., Ltd. Triazine derivatives and herbicides. 4,648,898, 3-10-87, Cl. 71-93.000.

Hayase, Yoshio; Ohtsuka, Toshikazu; Ishiguro, Takeo; and Takahashi, Toshio, to Shionogi & Co., Ltd. Ether compounds carrying substituted silyl group. 4,663,314, 5-5-87, Cl. 514-63.000.

Hayase, Yoshio; Ichinari, Mitsuhiro; Taguchi, Junji; Ishiguro, Takeo; and Takahashi, Toshio, to Shionogi & Co., Ltd. Thiazinephosphonic acid derivatives. 4,681,874, 7-21-87, Cl. 514-90.000.

Hayase, Yoshio; Ohtsuka, Toshikazu; Ide, Kinya; and Takahashi, Toshio, to Shionogi & Co., Ltd. 4,5,6,7-tetrahydro-2H-indazole derivatives and herbicides containing them. 4,695,312, 9-22-87, Cl. 71-92.000.

Hayashi, Akio: *See*—
Kotani, Kunio; Hayashi, Akio; and Taniguchi, Seiho, 4,648,986, Cl. 252-511.000.

Hayashi, Atsushi; Kuwabara, Kiyoharu; Sakai, Kohzo; and Ishino, Toshihiro, to Asahi Glass Company Ltd. High zirconia fused refractory product. 4,705,763, 11-10-87, Cl. 501-103.000.

Hayashi, Atsushi: *See*—
Horino, Hiroshi; Ohnaka, Michiro; Hayashi, Atsushi; and Ikeno, Yoshiko, 4,684,737, Cl. 549-240.000.

Hayashi, Chihiro: *See*—
Kusaba, Yoshiaki; and Hayashi, Chihiro, 4,669,293, Cl. 72-235.000.

Hayashi, Chikahisa: *See*—
Nishida, Kouji; Hayashi, Chikahisa; and Kanai, Makoto, 4,647,722, Cl. 379-63.000.

Hayashi, Chikara, to Research Development Corporation of Japan. Ultrafine particle spraying apparatus. 4,657,187, 4-14-87, Cl. 239-556.000.

Hayashi, Chikara; and Kashu, Seiichiro, to Research Development Corporation of Japan. Process and apparatus for manufacturing a pressed powder body. 4,683,118, 7-28-87, Cl. 419-23.000.

Hayashi, Eiji, to Yokogawa Hokushin Electric Corporation. Subminiature current transformer. 4,652,810, 3-24-87, Cl. 323-357.000.

Hayashi, Eiji: *See*—
Nakagawa, Fumio; Nakamura, Kazuyoshi; Shibao, Hitoshi; Yoshimura, Hiroshi; Taki, Koichi; Inoue, Makoto; Hayashi, Eiji; Dejima, Fusao; and Kohara, Yuritoshi, 4,690,638, Cl. 432-81.000.

Hayashi, Fumihiko: *See*—
Itoh, Masanori; and Hayashi, Fumihiko, 4,702,958, Cl. 428-323.000.

Hayashi, Hajime: *See*—
Shimura, Takaki; Murakami, Keiichi; Igarashi, Yutaka; Shiba, Akira; Hayashi, Hajime; Miwa, Hirohide; Inoue, Michitoshi; and Matsumoto, Masayuki, 4,655,228, Cl. 128-660.000.

Hayashi, Haruo: *See*—
Kurita, Akitsugu; Maruyama, Kazou; Okusa, Akira; and Hayashi, Haruo, 4,656,221, Cl. 524-731.000.

Hayashi, Hideaki: *See*—
Kurata, Ikuro; Hayashi, Hideaki; Sugiyama, Kazumi; and Kuboi, Kunihiko, 4,654,108, Cl. 156-561.000.

Hayashi, Hideharu; and Ishikawa, Yoshiaki, to Yazaki Corporation. Mating type electric connector box structure. 4,669,793, 6-2-87, Cl. 439-64.000.

Hayashi, Hideki; Takagi, Satoshi; and Yoshikawa, Kikuo, to Clarion Co., Ltd. Magnetic tape reproducing apparatus including automatic stop mechanism. 4,646,174, 2-24-87, Cl. 360-74.200.

Hayashi, Hiroaki: *See*—
Suzuki, Takatoshi; Takada, Yasuo; Sakakibara, Yuji; Sugiura, Masahiro; Hayashi, Hiroaki; and Kamigaito, Osami, 4,691,756, Cl. 164-361.000.

Hayashi, Hiroki: *See*—
Ishizaki, Hiroshi; and Hayashi, Hiroki, 4,668,003, Cl. 296-63.000.

Hayashi, Hiromasa: *See*—
Kuwabara, Michiaki; and Hayashi, Hiromasa, 4,646,132, Cl. 357-80.000.

Hayashi, Hiroo: *See*—
Miyamoto, Toshinobu; Sakurai, Hideya; Hayashi, Hiroo; and Ohnishi, Youichi, 4,672,346, Cl. 335-296.000.
Miyamoto, Toshinobu; Hayashi, Hiroo; Sakurai, Hideya; Takabayashi, Hirofumi; and Ohnishi, Youichi, 4,679,022, Cl. 335-296.000.

Hayashi, Hiroshi: *See*—
Kobayashi, Osamu; Akagawa, Masaki; and Hayashi, Hiroshi, 4,678,072, Cl. 194-206.000.
Nakano, Kikuo; and Hayashi, Hiroshi, 4,710,435, Cl. 428-698.000.
Takematsu, Tetsuo; Takeuchi, Yasutomo; Hiraishi, Kozo; Fujii, Toshikazu; Nishimula, Shoji; Suzuki, Motoyuki; Sato, Masahiro; and Hayashi, Hiroshi, 4,657,581, Cl. 71-118.000.
Yamamoto, Osamu; Matsui, Sadayoshi; Takiguchi, Haruhisa; Hayashi, Hiroshi; and Miyauchi, Nobuyuki, 4,655,597, Cl. 356-373.000.
Yamamoto, Saburo; Hayashi, Hiroshi; Morimoto, Taiji; and Yano, Seiki, 4,677,633, Cl. 372-45.000.
Yano, Seiki; Yamamoto, Saburo; Hayashi, Hiroshi; and Morimoto, Taiji, 4,686,679, Cl. 372-48.000.

Hayashi, Hisao; Morita, Yasushi; and Noda, Mitsunari, to Sony Corporation. Apparatus for vapor deposition. 4,651,674, 3-24-87, Cl. 118-728.000.

Hayashi, Hisao: *See*—
Noguchi, Takashi; Hayashi, Hisao; and Ohshima, Takefumi, 4,693,759, Cl. 437-24.000.

Hayashi, Hitoaki, to Asahi Dempa Co., Ltd. Piezoelectric vibrator. 4,716,332, 12-29-87, Cl. 310-368.000.

Hayashi, Hitoshi: *See*—
Isshiki, Isao; and Hayashi, Hitoshi, 4,685,753, Cl. 439-74.000.

Hayashi, Ikuo: *See*—
Idogaki, Takaharu; Kawai, Hisasi; and Hayashi, Ikuo, 4,644,211, Cl. 310-266.000.

Hayashi, Kanji: *See*—
Ideue, Kazuo; Oya, Masashi; Hayashi, Kanji; Egawa, Tsuneo; Shimazutsu, Hiroaki; Ibushi, Junichi; Yamamoto, Kunio; Miyaguchi, Kanehisa; and Doho, Tamenari, 4,671,017, Cl. 51-49.000.
Yonehara, Takashi; and Hayashi, Kanji, 4,656,963, Cl. 118-326.000.

Hayashi, Katsuhiko: *See*—
Orii, Makoto; and Hayashi, Katsuhiko, 4,702,350, Cl. 185-39.000.

Hayashi, Katsuhiro: *See*—
Kurono, Masayasu; Iida, Takafumi; Hayashi, Katsuhiro; and Yagi, Kunio, 4,656,303, Cl. 558-354.000.

Hayashi, Katsumi; Hopkins, T. Robert; and Scharf, Curtis R., to Lubrizol Corporation, The. Oil-soluble reaction products of an acylated reaction product, a polyamine, and mono-functional acid. 4,670,173, 6-2-87, Cl. 252-51.50A.

Hayashi, Katsushige: *See*—
Sugio, Akitoshi; Kawaki, Takao; and Hayashi, Katsushige, 4,670,535, Cl. 528-220.000.

Hayashi, Katuhiko: *See*—
Ishino, Ken; Hashimoto, Yasuo; Hayashi, Katuhiko; and Misawa, Nobutaka, 4,689,460, Cl. 219-10.55D.

Hayashi, Kazuhiko; Ochiai, Yoshitaka; Hayakawa, Masatoshi; Matsuda, Hideki; Ishikawa, Wataru; Iwasaki, You; and Aso, Koichi, to Sony Corporation. Magnetic material having high permeability in the high frequency range. 4,640,871, 2-3-87, Cl. 428-611.000.

Hayashi, Kazuhiko; Iwata, Masayosi; Tada, Mikio; and Mizuno, Hirotoshi, to Toyota Jidosha Kabushiki Kaisha; and Kabushiki Kaisha Tokai Rika Denki Seisakusho. Slide switch. 4,659,882, 4-21-87, Cl. 200-16.00R.

Hayashi, Kazuhiko; and Iwatsuki, Kunihiro, to Toyota Jidosha Kabushiki Kaisha. Method and system for shift control in an automatic transmission for a vehicle. 4,688,450, 8-25-87, Cl. 74-866.000.

Hayashi, Kazuhiko: *See*—
Hayakawa, Masatoshi; Aso, Koichi; Ochiai, Yoshitaka; Matsuda, Hideki; Hayashi, Kazuhiko; Ishikawa, Wataru; and Iwasaki, You, 4,707,417, Cl. 428-630.000.

Hayashi, Kazuhiro: *See*—
Okumura, Yasuyuki; and Hayashi, Kazuhiro, 4,682,327, Cl. 370-100.000.

Hayashi, Kazumasa: *See*—
Yuasa, Yasuhito; Hayashi, Kazumasa; Nakata, Koreaki; and Okuma, Akihiro, 4,689,285, Cl. 430-122.000.

Hayashi, Kazunori: *See*—
Enjo, Naonori; Shinjo, Masayoshi; Okazaki, Yasuko; and Hayashi, Kazunori, 4,685,967, Cl. 106-13.000.
Fukui, Shosin; Shinjo, Masayoshi; Aoyama, Hirokazu; Okazaki, Yasuko; Enjo, Naonori; and Hayashi, Kazunori, 4,673,712, Cl. 526-253.000.

Hayashi, Kazuo, to Kabushiki Kaisha Morita Seisakusho. Device for controlling headrest of treatment equipment. 4,647,108, 3-3-87, Cl. 297-391.000.

Hayashi, Kazuo; Shoji, Tetsuo; Niitsuma, Hiroaki; Takahashi, Hideaki; and Abe, Hiroyuki, to Tohoku University. Method of measuring crustal stress by hydraulic fracture based on analysis of crack growth in rock. 4,665,984, 5-19-87, Cl. 166-250.000.

Hayashi, Keijiro; Shinya, Kenzo; Saeki, Yasuo; and Asai, Shigeru, to Mizuno Corporation. Ski. 4,697,820, 10-6-87, Cl. 280-609.000.

Hayashi, Keijiro; Shinya, Kenzo; Awano, Toshimi; and Asai, Shigeru, to Mizuno Corporation. Ski. 4,697,821, 10-6-87, Cl. 280-609.000.

Hayashi, Keijiro; and Awano, Toshimi, to Mizuno Corporation. Injection ski and a method of manufacturing same. 4,711,462, 12-8-87, Cl. 280-610.000.

Hayashi, Keizo; Hasegawa, Hitoshi; and Suhara, Katsuhiro, to Toyoda Gosei Co., Ltd. Injection molding machine. 4,708,633, 11-24-87, Cl. 425-574.000.

Hayashi, Keizo: *See*—

Yasukawa, Takemasa; Sugita, Hiroshi; Aritake, Masanori; and Hayashi, Keizo, 4,669,144, Cl. 15-250.360.

Hayashi, Ken-ichi; Hirozawa, Kunikazu; and Kotaki, Masahiro, to Toyoda Gosei Co., Ltd. Vehicle top mark. 4,646,208, 2-24-87, Cl. 362-80.000.

Hayashi, Kenji: *See*—

Asano, Kazuhiko; Takezoe, Osamu; Yasuda, Yoshinori; Hayashi, Kenji; Aoki, Masanobu; Doi, Yoshio; and Shimata, Makoto, 4,648,918, Cl. 148-439.000.

Eitoku, Kenji; and Hayashi, Kenji, 4,703,649, Cl. 73-118.100.

Eitoku, Kenji; and Hayashi, Kenji, 4,715,220, Cl. 73-118.100.

Matsuura, Kazuo; Nakahara, Katuzi; and Hayashi, Kenji, 4,702,980, Cl. 430-63.000.

Hayashi, Kimiyoshi, to Canon Kabushiki Kaisha. Color image reading apparatus with white balance system for controlling the intensity of a light source illuminating a color document. 4,679,073, 7-7-87, Cl. 358-80.000.

Hayashi, Kimiyoshi; Ohno, Akio; Hirooka, Kazuhiko; and Murayama, Yasushi, to Canon Kabushiki Kaisha. Image forming apparatus with detecting and controlling means. 4,697,915, 10-6-87, Cl. 355-14.00D.

Hayashi, Kimiyoshi: *See*—

Hasegawa, Shizuo; and Hayashi, Kimiyoshi, 4,691,114, Cl. 250-578.000.

Hayashi, Kiyohide; Sugiura, Saburo; and Demukai, Noboru, to Daido Tokushuko Kabushiki Kaisha. Apparatus for reactor iron making. 4,691,899, 9-8-87, Cl. 266-140.000.

Hayashi, Kiyotaka: *See*—

Ohzono, Kohei; Saito, Mitsuru; Hayashi, Kiyotaka; and Fujita, Taiji, 4,673,379, Cl. 474-28.000.

Ohzono, Kohei; Hayashi, Kiyotaka; Saito, Mitsuru; Kato, Masaie; and Yoshida, Yoshihiro, 4,679,677, Cl. 192-85.0AA.

Hayashi, Kohji: *See*—

Hasegawa, Ryuichi; and Hayashi, Kohji, 4,681,975, Cl. 560-90.000.

Hayashi, Kuniharu: *See*—

Kikuchi, Hiroshi; Hayashi, Kuniharu; Isobe, Minoru; Tanuma, Jiro; and Maekawa, Masanori, 4,687,361, Cl. 400-322.000.

Hayashi, Kunio: *See*—

Fukuma, Nobuo; Hasegawa, Hisayasu; Murayama, Kimimasa; Hayashi, Kunio; and Tokudome, Yoshihiro, 4,689,864, Cl. 29-157.10R.

Hayashi, Kyozo; and Noda, Shigeru, to Sumitomo Electric Industries, Ltd. Connector for optical fibers with a gap. 4,714,318, 12-22-87, Cl. 350-96.210.

Hayashi, Makoto; and Yokoya, Yuji, to Toyota Jidosha Kabushiki Kaisha. Hydraulic buffer. 4,660,689, 4-28-87, Cl. 188-319.000.

Hayashi, Makoto: *See*—

Okabe, Takahiro; Hayashi, Makoto; Morisuye, Katuhiro; Watanabe, Tomoyuki; Washio, Katsuyoshi; Ogura, Setsuo; Furihata, Makoto; and Kondo, Shizuo, 4,697,102, Cl. 307-454.000.

Washio, Katsuyoshi; Hayashi, Makoto; Watanabe, Tomoyuki; Okabe, Takahiro; and Norisuye, Katuhiro, 4,694,321, Cl. 357-48.000.

Hayashi, Mamoru; and Kawamori, Hideo, to Tokyo Kikai Seisakusho, Ltd. Automatic paper roll pasting apparatus for rotary presses. 4,715,922, 12-29-87, Cl. 156-361.000.

Hayashi, Masaaki: *See*—

Hanazono, Masanobu; Hara, Shinichi; Akiyama, Hirosi; Hayashi, Masaaki; Saitoo, Harunobu; and Kurisu, Takumi, 4,685,014, Cl. 360-126.000.

Nakamura, Keiichi; Eto, Kunihiko; Suzuki, Mikio; Hayashi, Masaaki; and Iwashita, Shigeo, 4,653,601, Cl. 180-79.100.

Suzuki, Mikio; Iwashita, Shigeo; and Hayashi, Masaaki, 4,685,528, Cl. 180-79.100.

Hayashi, Masaharu; and Nakagawa, Makoto, to Aisin Seiki Kabushiki Kaisha. Blade configuration for shrouded motor-driven fan. 4,664,593, 5-12-87, Cl. 415-119.000.

Hayashi, Masaharu: *See*—

Suzaki, Shunkichi; Shirai, Toshiaki; Adachi, Hisanobu; Hayashi, Masaharu; Hattori, Kenji; and Takakura, Yoshinari, 4,687,132, Cl. 236-35.000.

Hayashi, Masahiko; and Iwahori, Hiroshi, to Nitto Electric Industrial Co., Ltd. Method for washing inner surface of tubular permeable membrane. 4,687,522, 8-18-87, Cl. 134-8.000.

Hayashi, Masahiko: *See*—

Iida, Hiroshi; Azuma, Kunihiro; and Hayashi, Masahiko, 4,656,241, Cl. 528-279.000.

Yuki, Yoichi; Noyori, Ryoji; and Hayashi, Masahiko, 4,666,633, Cl. 260-395.000.

Hayashi, Masahiro: *See*—

Aoyama, Fumihiko; Murata, Kazushige; and Hayashi, Masahiro, 4,664,610, Cl. 425-84.000.

Azuma, Hidekazu; Yoshinaka, Ryozi; Tsuruhashi, Takayu Hokao, Katsuiku; Watanabe, Kazuki; Ogo, Kazutaka; Suzu Takatoshi; and Hayashi, Masahiro, 4,656,868, Cl. 73-587.000.

Ogo, Kazutaka; Hayashi, Masahiro; Suzuki, Takatoshi; Hoka Katsuiku; Asai, Akio; and Tsuruhashi, Takayuki, 4,709,198, C 318-571.000.

Hayashi, Masakatsu: *See*—

Nagai, Makoto; Horiuchi, Isamu; Hanada, Masamichi; Kuroda Sigeaki; Hayashi, Masakatsu; Ohishi, Yasuro; Mori, Yuta Maeda, Eiji; Kasukabe, Kimito; Tsujita, Yuji; Etou, Hiro Kikuchi, Katsuaki; and Itagaki, Masato, 4,647,271, Cl. 4 186.00R.

Hayashi, Masashi: *See*—

Inagoya, Osamu; Fujiwara, Hideo; Tottori, Takeshi; Yama Minoru; Kumasaka, Noriyuki; Otomo, Shigekazu; Kudo, Mi suhiro; Morikawa, Juiti; Ishihara, Kiyoshi; Usui, Akira; an Hayashi, Masashi, 4,701,819, Cl. 360-122.000.

Hayashi, Masataka: *See*—

Tanaka, Kenzi; Gomi, Koichi; Fukuda, Tamotsu; and Hayash Masataka, 4,671,240, Cl. 123-463.000.

Hayashi, Masatake, to Sony Corporation. Image pickup tube. 4,678,9 7-7-87, Cl. 313-383.000.

Hayashi, Masayuki: *See*—

Terada, Takami; and Hayashi, Masayuki, 4,645,159, C 248-429.000.

Hayashi, Mikio; and Inoue, Haruo, to Seikosha Co., Ltd. Print hea having rolled spring arms with uniform response. 4,704,041, 11-3 Cl. 400-124.000.

Hayashi, Mitsuji; Niwa, Takashi; Hayakawa, Akihiko; Bingo, Hideya Kazusaka, Shoji; and Konishi, Keisuke, to Omron Tateisi Electro Co. Plunger sensing switch. 4,701,582, 10-20-87, Cl. 200-61.420.

Hayashi, Mitsuo: *See*—

Yazawa, Akira; Itagaki, Kimio; Sezaki, Kazuo; Matsuda, Ken Kanazawa, Kazuo; Hayashi, Mitsuo; and Katada, Katsu 4,657,585, Cl. 75-63.000.

Hayashi, Mitsuroh: *See*—

Kanda, Mamoru; Suzuki, Osamu; Ishiwata, Shousuke; and Hayash Mitsuroh, 4,679,427, Cl. 73-54.000.

Hayashi, Motohide: *See*—

Kurono, Masayasu; Hayashi, Motohide; Suzuki, Tsunemasa; Miura Kenji; Kumagai, Yoshihiro; Matsumoto, Yukiharu; Miyan Seiji; and Sumoto, Kunihiro, 4,678,801, Cl. 514-413.000.

Hayashi, Motomu; Nagai, Masayuki; and Akoshima, Shigeru, to Toyota Jidosha Kabushiki Kaisha. Vehicle window structure. 4,640,0 2-3-87, Cl. 52-208.000.

Hayashi, Motomu; Nagai, Masayuki; and Imayoshi, Kiyoyuki, t Toyota Jidosha Kabushiki Kaisha. Seal assembly for attachment to a window glass and a method for installing a window glass. 4,674,2 6-23-87, Cl. 52-208.000.

Hayashi, Motomu: *See*—

Watanabe, Hiroyuki; Hamada, Eiichi; Hayashi, Motomu; and Ot Kenji, 4,697,386, Cl. 49-374.000.

Hayashi, Nobuhiro: *See*—

Hayashi, Seizo; Okano, Kenji; and Hayashi, Nobuhiro, 4,637,092, Cl. 15-319.000.

Hayashi, Norifumi: *See*—

Miyauchi, Yukio; Nakagawa, Yuichi; Kurihara, Makoto; and Hayashi, Norifumi, 4,702,939, Cl. 427-195.000.

Hayashi, Ryoichi: *See*—

Shimada, Takeo; Kimura, Tsutomu; and Hayashi, Ryoich 4,645,334, Cl. 355-40.000.

Hayashi, Saburo: *See*—

Haruna, Kazuo; and Hayashi, Saburo, 4,661,125, Cl. 55-26.000.

Hayashi, Sadao, to Asahi Gomu Kako Kabushiki Kaisha. Flexible dumbbell. 4,690,399, 9-1-87, Cl. 272-122.000.

Hayashi, Seiichi; Takei, Katsumori; Usui, Takahiro; Yamaguchi, Yoshitaka; and Taniguchi, Makoto, to Seiko Epson Kabushiki Kaisha. Ink for thermal transfer printing. 4,636,258, 1-13-87, Cl. 106-31.000.

Hayashi, Seiichi; Takei, Katsumori; and Yamaguchi, Yoshitaka, to Seiko Epson Kabushiki Kaisha. Electrothermal transfer recording sheet. 4,684,563, 8-4-87, Cl. 428-207.000.

Hayashi, Seiichi; Nakamura, Takashi; and Tanabe, Hisayuki, to Seiko Epson Corporation; and Nippon Kores Kabushiki Kaisha. Current-applying thermal transfer film. 4,710,782, 12-1-87, Cl. 346-76.00R.

Hayashi, Seiichi: *See*—

Saitoh, Masahiko; Seki, Gen; Hayashi, Seiichi; and Orihara, Yasunori, 4,675,756, Cl. 360-71.000.

Seki, Gen; Hayashi, Seiichi; Kaito, Haruyuki; and Tatsumi, Akira, 4,658,315, Cl. 360-104.000.

Hayashi, Seizo; Okano, Kenji; and Hayashi, Nobuhiro, to Matsushita Electric Industrial Co., Ltd. Vacuum cleaner with agitator. 4,637,092, 1-20-87, Cl. 15-319.000.

Hayashi, Shigeo, to Olympus Optical Co., Ltd. Forceps device for use in an endoscope. 4,669,471, 6-2-87, Cl. 128-321.000.

Hayashi, Shigeo, to Mitsubishi Denki Kabushiki Kaisha. Power conversion system. 4,706,178, 11-10-87, Cl. 363-98.000.

Hayashi, Shigeru: *See*—

Kawai, Yoichi; Abe, Masaru; Yoshihara, Akio; Hayashi, Shigeru; and Sekiguchi, Katsumi, 4,705,818, Cl. 523-200.000.

Hayashi, Shigeyuki: *See*—

Sakakibara, Kenji; Akao, Michitoshi; Hayashi, Shigeyuki; and Sakai, Jun, 4,714,943, Cl. 355-27.000.

Hayashi, Shinichi: *See*—

Saitoh, Takashi; Niizaki, Nobuya; Yamamura, Hideho; and Hayashi, Shinichi, 4,710,654, Cl. 307-601.000.

Hayashi, Shoichi; Ishihara, Hidetoshi; Okada, Taketoshi; and Kojima, Kunio, to Mitsubishi Jukogyo Kabushiki Kaisha; and Churyo Engineering Co., Ltd. Device for extracting water from a load of washed articles. 4,680,874, 7-21-87, Cl. 34-143.000.

Hayashi, Shoichiro: *See—*
  Iizuka, Akira; Konai, Yutaka; Yamauchi, Takashi; and Hayashi, Shoichiro, 4,638,087, Cl. 562-467.000.
  Yamauchi, Takashi; Hayashi, Shoichiro; and Sasakawa, Atsushi, 4,681,978, Cl. 562-413.000.

Hayashi, Shoji: *See—*
  Sawai, Masaaki; Kobayashi, Masamichi; Hayashi, Shoji; Naka, Hiroshi; and Ichiki, Masahiro, 4,692,927, Cl. 372-46.000.

Hayashi, Shozo: *See—*
  Sato, Atsushi; Endo, Keiji; Kawakami, Shigenobu; Yanagishita, Hitoshi; and Hayashi, Shozo, 4,681,980, Cl. 585-6.300.

Hayashi, Shunichi: *See—*
  Takagi, Koichi; and Hayashi, Shunichi, 4,677,020, Cl. 428-294.000.

Hayashi, Soichiro: *See—*
  Toyoda, Eiji; and Hayashi, Soichiro, 4,713,722, Cl. 361-141.000.

Hayashi, Souichi; Miyake, Johji; Koyama, Mototsugu; and Sakaguchi, Kanji, to Toyota Jidosha Kabushiki Kaisha. Method for manufacturing a cylinder head of cast aluminum alloy for internal combustion engines by employing local heat treatment. 4,695,329, 9-22-87, Cl. 148-3.000.

Hayashi, Steven J.: *See—*
  Katzman, James A.; Bartlett, Joel F.; Bixler, Richard M.; Davidow, William H.; Despotakis, John A.; Graziano, Peter J.; Green, Michael D.; Greig, David A.; Hayashi, Steven J.; Mackie, David R.; McEvoy, Dennis L.; Treybig, James G.; and Wierenga, Steven W., 4,639,864, Cl. 364-200.000.
  Katzman, James A.; Bartlett, Joel F.; Bixler, Richard M.; Davidow, William H.; Despotakis, John A.; Graziano, Peter J.; Green, Michael D.; Greig, David A.; Hayashi, Steven J.; Mackie, David R.; McEvoy, Dennis L.; Treybig, James G.; and Wierenga, Steven W., 4,672,535, Cl. 364-200.000.
  Katzman, James A.; Bartlett, Joel F.; Bixler, Richard M.; Davidow, William H.; Despotakis, John A.; Graziano, Peter J.; Green, Michael D.; Greig, David A.; Hayashi, Steven J.; Mackie, David R.; McEvoy, Dennis L.; Treybig, James G.; and Wierenga, Steven W., 4,672,537, Cl. 364-200.000.

Hayashi, Steven R.: *See—*
  Thomas, Charles E.; Lee, Minyoung; Bedard, James F.; and Hayashi, Steven R., 4,636,780, Cl. 340-680.000.
  Thomas, Charles E.; Lee, Minyoung; Bedard, James F.; and Hayashi, Steven R., 4,642,617, Cl. 340-680.000.

Hayashi, Tadamasa; and Mizushima, Toyoshi, to Ebara Corporation. Apparatus for subjecting a radioactive sodium borate waste solution to volume reduction and solidification. 4,710,266, 12-1-87, Cl. 159-7.000.

Hayashi, Takashi: *See—*
  Iwaki, Takashi; and Hayashi, Takashi, 4,676,331, Cl. 180-79.100.
  Watanabe, Tomoyuki; Shigematsu, Takashi; Tokoro, Setsuo; and Hayashi, Takashi, 4,715,482, Cl. 192-0.032.

Hayashi, Takatoshi, to Kobishi Electric Co., Ltd. Alarm horn. 4,664,055, 5-12-87, Cl. 116-142.00R.

Hayashi, Takayuki; Usami, Toshimasa; and Tanaka, Toshiharu, to Fuji Photo Film Co., Ltd. Heat-sensitive recording material. 4,686,547, 8-11-87, Cl. 503-207.000.

Hayashi, Takehisa: *See—*
  Masuda, Noboru; Asano, Michio; Hayashi, Takehisa; Tanaka, Hirotoshi; and Masaki, Akira, 4,697,110, Cl. 307-475.000.

Hayashi, Takeshi. Method for instantly killing and cooling fish, and an apparatus for carrying out this method. 4,700,547, 10-20-87, Cl. 62-65.000.

Hayashi, Takuo: *See—*
  Kitabayashi, Motoi; Hayashi, Takuo; Ozawa, Norihiko; Hirasawa, Yukihiro; and Miyazawa, Naotoshi, 4,647,813, Cl. 313-509.000.

Hayashi, Takushi: *See—*
  Fukuda, Tomeichiro; Soda, Takashi; Furukawa, Ikuo; Hayashi, Takushi; Kumata, Fujio; and Nagano, Susumu, 4,662,835, Cl. 425-145.000.

Hayashi, Tatsuya: *See—*
  Tsunekawa, Masaru; Naito, Yoshihiro; Hyodo, Masaya; and Hayashi, Tatsuya, 4,706,457, Cl. 60-521.000.

Hayashi, Terumine: *See—*
  Hatayama, Kazumi; and Hayashi, Terumine, 4,710,930, Cl. 371-25.000.
  Kuboki, Shigeo; Masuda, Ikuro; Masuda, Toshiaki; and Hayashi, Terumine, 4,701,922, Cl. 371-25.000.

Hayashi, Tomoyuki: *See—*
  Jiko, Hideyasu; and Hayashi, Tomoyuki, 4,716,378, Cl. 330-108.000.

Hayashi, Torahiko. Screw conveyor. 4,645,064, 2-24-87, Cl. 198-533.000.

Hayashi, Torahiko; and Tashiro, Yasunori, to Rheon Automatic Machinery Co., Ltd. Apparatus for quantitatively extruding food material. 4,669,967, 6-2-87, Cl. 425-376.00R.

Hayashi, Torahiko; and Shibata, Sadao. Apparatus for continuously producing filled dough pieces. 4,671,759, 6-9-87, Cl. 425-294.000.

Hayashi, Torahiko. Apparatus for stretching a plastic raw material. 4,671,760, 6-9-87, Cl. 425-373.000.

Hayashi, Torahiko; and Ota, Etsuo, to Rheon Automatic Machinery Co., Ltd. Apparatus and method for arraying and conveying rows of products. 4,684,008, 8-4-87, Cl. 198-436.000.

Hayashi, Torahiko; and Tashiro, Yasunori, to Rheon Automatic Machinery Co., Ltd. Apparatus for cutting filled cylindrical dough body. 4,692,109, 9-8-87, Cl. 425-308.000.

Hayashi, Torahiko, to Rheon Automatic Machinery Co., Ltd. Apparatus for stretching plastic dough. 4,692,110, 9-8-87, Cl. 425-335.000.

Hayashi, Torahiko; Mugishima, Hirobumi; and Morikawa, Michio, to Rheon Automatic Machinery Co., Ltd. Apparatus and method for selectively determining orientation of dough pieces. 4,703,679, 11-3-87, Cl. 83-102.000.

Hayashi, Torahiko: *See—*
  Morikawa, Michio; and Hayashi, Torahiko, 4,692,107, Cl. 425-140.000.

Hayashi, Toshihide; Kanayama, Ikuo; and Kanno, Masayoshi, to Sony Corporation. Television signal receiving apparatus. 4,691,351, 9-1-87, Cl. 380-10.000.

Hayashi, Toshihide; Yamakami, Osamu; and Kanayama, Ikuo, to Sony Corporation. SHF receiver. 4,710,972, 12-1-87, Cl. 455-179.000.

Hayashi, Toshinari: *See—*
  Takao, Hisoka; Sato, Toshiro; Saito, Seiichi; and Hayashi, Toshinari, 4,707,622, Cl. 307-448.000.

Hayashi, Toshio: *See—*
  Uchimura, Kuniharu; Kobayashi, Tsutomu; Iwata, Atushi; Hayashi, Toshio; and Kumura, Tadakatsu, 4,704,600, Cl. 340-347.0AD.

Hayashi, Toyoaki: *See—*
  Ohkuma, Kuniaki; Nakagawa, Reiji; Miyao, Hisao; Yoshimura, Shinichi; Suzuki, Toshio; Hayashi, Toyoaki; Arakawa, Masayasu; and Koizumi, Hideharu, 4,714,397, Cl. 414-222.000.

Hayashi, Tsunekazu: *See—*
  Iwasaki, Takashi; Tomita, Yasuo; and Hayashi, Tsunekazu, 4,690,839, Cl. 427-366.000.

Hayashi, Tsuneo: *See—*
  Tani, Nobutaka; and Hayashi, Tsuneo, 4,637,994, Cl. 502-404.000.

Hayashi, Tsutomu; Kawaguchi, Takeshi; and Tsuchida, Tetsuo, to Honda Giken Kogyo Kabushiki Kaisha. Brake device for vehicles. 4,660,683, 4-28-87, Cl. 188-18.00A.

Hayashi, Tsutomu; and Ohzono, Kouhei, to Honda Giken Kogyo Kabushiki Kaisha. Clutch apparatus for vehicles. 4,669,588, 6-2-87, Cl. 192-3.570.

Hayashi, Tsutomu; Kawaguchi, Takeshi; and Tsuchida, Tetsuo, to Honda Giken Kogyo Kabushiki Kaisha. Braking system for vehicles. 4,673,221, 6-16-87, Cl. 303-6.00R.

Hayashi, Tsutomu; Kawaguchi, Takeshi; and Tsuchida, Tetsuo, to Honda Giken Kogyo Kabushiki Kaisha. Braking device for vehicle. 4,694,938, 9-22-87, Cl. 188-181.00A.

Hayashi, Tsutomu; Kawaguchi, Takeshi; and Tsuchida, Tetsuo, to Honda Giken Kogyo Kabushiki Kaisha. Anti-lock braking system for the front wheel of a motorcycle. 4,697,825, 10-6-87, Cl. 280-703.000.

Hayashi, Tsutomu; Kawaguchi, Takeshi; and Tsuchida, Tetsuo, to Honda Giken Kogyo Kabushiki Kaisha. Rear wheel braking apparatus for motorcycle. 4,702,339, 10-27-87, Cl. 180-219.000.

Hayashi, Tsutomu: *See—*
  Tsuchida, Tetsuo; Kawaguchi, Takesni; Hayashi, Tsutomu; and Yamanoi, Yoshinori, 4,664,233, Cl. 188-181.00A.

Hayashi, Yasuhide; and Kawamura, Takayasu, to Kabushiki Kaisha Meidensha. Semiconductor device with specifically oriented control layer. 4,651,188, 3-17-87, Cl. 357-38.000.

Hayashi, Yasuhide: *See—*
  Kawamura, Takayasu; and Hayashi, Yasuhide, 4,667,215, Cl. 357-38.000.

Hayashi, Yasuhiro; Maeda, Satoru; and Kojima, Tadashi, to Kabushiki Kaisha Toshiba. Tracking control system for optical record disc information reproducing apparatus. 4,689,779, 8-25-87, Cl. 369-44.000.

Hayashi, Yasuhiro: *See—*
  Kojima, Yasumichi; Ueno, Hideo; Hayashi, Yasuhiro; Suzuki, Makoto; and Furukawa, Satoshi, 4,671,684, Cl. 400-63.000.

Hayashi, Yasutaka: *See—*
  Doi, Shunichi; Sugiura, Noboru; Hayashi, Yasutaka; and Yamamoto, Yuzo, 4,700,971, Cl. 280-707.000.
  Ikemoto, Hiroyuki; Oowa, Nobutaka; Hayashi, Yasutaka; and Doi, Shunichi, 4,693,493, Cl. 280-707.000.
  Miki, Kazuo; Fukui, Katsuhiko; Hayashi, Yasutaka; Ishiguro, Michio; Sumi, Kazumasa; and Takei, Kazukata, 4,669,745, Cl. 280-91.000.
  Miki, Kazuo; Hayashi, Yasutaka; Fukui, Katsuhiko; and Sumi, Kazumasa, 4,700,960, Cl. 280-91.000.

Hayashi, Yasuyuki; Sadaka, Naoyuki; Murata, Shigeru; and Kawahara, Shuichi, to Kabushiki Kaisha Showa Seisakusho. Self-leveling damper for motorcycles. 4,667,941, 5-26-87, Cl. 267-64.160.

Hayashi, Yasuyuki: *See—*
  Suzuki, Hideo; Okamoto, Kunihide; Hayashi, Yasuyuki; and Aiba, Mitsuru, 4,709,934, Cl. 280-6.00R.

Hayashi, Yoichiro: *See—*
  Miyazaki, Kenji; Hagio, Tsuyoshi; Ogawa, Ichitaro; Yoshida, Hisayoshi; Kobayashi, Kazuo; Kashima, Kazutsugu; Tada, Takashi; Hayashi, Yoichiro; and Abe, Wataru, 4,637,884, Cl. 252-12.000.

Hayashi, Yoriyuki: *See—*
  Fujinuma, Katsumi; Takase, Tsuneyoshi; and Hayashi, Yoriyuki, 4,677,976, Cl. 128-201.250.

Hayashi, Yoshiaki: *See—*
  Ikedo, Masaru; Watari, Masafumi; Hayashi, Yoshiaki; Yamamoto, Osamu; and Tsutsui, Hiroshi, 4,678,275, Cl. 350-96.340.

Hayashi, Yoshiharu; and Kouji, Hiroyuki, to Asahi Kasei Kogyo Kabushiki Kaisha. 2-nitro-5-(2′chloro-4′trifluoromethylphenoxy)-phenylacetic esters, herbicidal composition, and method for destruction of undesirable weeds. 4,698,094, 10-6-87, Cl. 71-108.000.

Hayashi, Yoshiharu; and Misumi, Teruyuki, to Asahi Kasei Kogyo Kabushiki Kaisha. 5-(2-chloro-4-trifluoromethylphenoxy)-2-nitro-α-substituted-acetophenone, oxime derivative thereof, herbicidal composition, and method for the destruction of undesirable weeds. 4,708,734, 11-24-87, Cl. 71-100.000.

Hayashi, Yoshiharu: *See—*
  Yasuda, Syoichi; Tokuno, Akihira; Futada, Akihiko; Hayashi, Yoshiharu; Kobori, Kiyoshi; and Ishida, Takayoshi, 4,700,220, Cl. 358-44.000.

Hayashi, Yoshihiko, to Hitachi, Ltd. Variable-ratio frequency divider. 4,651,334, 3-17-87, Cl. 377-108.000.

Hayashi, Yoshikatsu: *See—*
  Ohashi, Azusa; Shirai, Akira; Sakaki, Hirokazu; Tanabe, Zenichi; Tsuchida, Shin; and Hayashi, Yoshikatsu, 4,634,656, Cl. 430-278.000.

Hayashi, Yoshikazu, to Kabushiki Kaisha Airin. Method of producing crackers and apparatus for carrying out the same. 4,667,588, 5-26-87, Cl. 99-372.000.

Hayashi, Yoshikazu: *See—*
  Fukuyama, Takahiko; Hori, Seiji; Ota, Yoshihiro; and Hayashi, Yoshikazu, 4,692,573, Cl. 200-50.00C.

Hayashi, Yoshiki: *See—*
  Kuramoto, Yukimasa; Oonishi, Hajimu; Sakai, Yukio; Hayashi, Yoshiki; and Wells, Robert C., 4,660,961, Cl. 355-4.000.
  Kuramoto, Yukimasa; Oonishi, Hajimu; Sakai, Yukio; Hayashi, Yoshiki; and Wells, Robert C., 4,697,913, Cl. 355-3.00R

Hayashi, Yoshimasa, to Nissan Motor Co., Ltd. Cooling system for automotive engine or the like. 4,633,822, 1-6-87, Cl. 123-41.210

Hayashi, Yoshimasa, to Nissan Motor Co., Ltd. Overhead camshaft engine valve train with slack take up means. 4,646,690, 3-3-87, Cl. 123-90.460.

Hayashi, Yoshimasa, to Nissan Motor Co., Ltd. Evaporative cooling system of internal combustion engine. 4,648,356, 3-10-87, Cl. 123-41.210.

Hayashi, Yoshimasa, to Nissan Motor Co., Ltd. Cooling system for automotive engine or the like. 4,648,357, 3-10-87, Cl. 123-41.270.

Hayashi, Yoshimasa; and Tamazawa, Tsuyoshi, to Nissan Motor Co., Ltd. Cooling system for automotive engine or the like. 4,649,869, 3-17-87, Cl. 123-41.210.

Hayashi, Yoshimasa, to Nissan Motor Company, Limited. V-type engine boiling and cooling apparatus. 4,656,974, 4-14-87, Cl. 123-41.210.

Hayashi, Yoshimasa, to Nissan Motor Co., Ltd. Passenger cabin heating system. 4,657,180, 4-14-87, Cl. 237-12.30R.

Hayashi, Yoshimasa, to Nissan Motor Co., Ltd. Cooling system for automotive engine or the like. 4,658,765, 4-21-87, Cl. 123-41.210.

Hayashi, Yoshimasa, to Nissan Motor Co., Ltd. Cooling system for automotive internal combustion engine or the like. 4,662,318, 5-5-87, Cl. 123-41.210.

Hayashi, Yoshimasa; and Hirano, Yoshinori, to Nissan Motor Co., Ltd. Cooling system for automotive engine or the like. 4,667,626, 5-26-87, Cl. 123-41.210.

Hayashi, Yoshimasa, to Nissan Motor Co., Ltd. Cooling system for automotive engine or the like. 4,677,942, 7-7-87, Cl. 123-41.210.

Hayashi, Yoshimasa, to Nissan Motor Co., Ltd. Cooling system for use in cab-over type vehicles. 4,681,179, 7-21-87, Cl. 180-68.400.

Hayashi, Yoshimasa; and Murakami, Yasuhiro, to Nissan Motor Co., Ltd. Cooling system for automotive engine or the like. 4,686,942, 8-18-87, Cl. 123-41.210.

Hayashi, Yoshimasa, to Nissan Motor Co., Ltd. Coolant level sensor arrangement in boiling liquid cooling system. 4,696,261, 9-29-87, Cl. 123-41.210.

Hayashi, Yoshimasa; Minezaki, Yutaka; Ito, Yoji; Inoue, Naoyuki; and Hirano, Yoshinori, to Nissan Motor Co., Ltd. Cooling system for automotive engine or the like. 4,700,664, 10-20-87, Cl. 123-41.270.

Hayashi, Yoshimasa: *See—*
  Hirano, Yoshinori; and Hayashi, Yoshimasa, 4,646,688, Cl. 123-41.270.
  Miura, Noboru; and Hayashi, Yoshimasa, 4,658,764, Cl. 123-41.120.

Hayashi, Yoshimi: *See—*
  Shimizu, Goro; Hayashi, Yoshimi; Hasegawa, Hajime; Koga, Taiji; Takei, Atsuo; Okuyama, Tohru; and Torigoe, Hideo, 4,666,949, Cl. 521-114.000.

Hayashi, Yoshinori: *See—*
  Iijima, Kenzaburo; and Hayashi, Yoshinori, 4,715,904, Cl. 148-102.000.
  Iijima, Kenzaburou; and Hayashi, Yoshinori, 4,683,013, Cl. 148-102.000.

Hayashi, Yoshio: *See—*
  Shibasaki, Masakatsu; Sodeoka, Mikiko; Ogawa, Yuji; Mase, Toshiaki; Ishibashi, Akira; Horii, Daijiro; Kanayama, Toshiji; Iseki, Katsuhiko; Shinoda, Masaki; Ishiyama, Chiyoko; and Hayashi, Yoshio, 4,699,921, Cl. 514-530.000.

Hayashi, Yoshiro; Ekino, Yoshio; Yuki, Isamu; and Taguchi, Masahiro, to Toyota Jidosha Kabushiki Kaisha. Thermocouple protective tube. 4,663,205, 5-5-87, Cl. 428-36.000.

Hayashi, Yoshitoki, to Kitagawa Industries Co., Ltd. Securing unit. 4,674,910, 6-23-87, Cl. 403-408.100.

Hayashi, Yuji: *See—*
  Kamide, Noboru; Hijikata, Hiroshi; Tokudome, Katsumi; Ishikawa, Michio; and Hayashi, Yuji, 4,635,272, Cl. 372-87.000.

Hayashi, Yukichi; Itako, Eiji; and Yasuhara, Masahiro, to Kabushikikaisha Nippon Coinco. Control and monitoring apparatus for vending machines. 4,654,800, 3-31-87, Cl. 364-479.000.

Hayashi, Yukichi; Itako, Eiji; and Yasuhara, Masahiro, to Kabushi Kaisha Nipponcoinco. Automatic vending machine with discoun function. 4,679,150, 7-7-87, Cl. 364-479.000.

Hayashi, Yukichi: *See—*
  Kachi, Kenjiro; Onda, Hideaki; Hayashi, Yukichi; Yoshiharu Kenzo; Watabe, Masayuki; Akagawa, Masaki; and Mori, Yoshikazu, 4,658,125, Cl. 235-449.000.

Hayashi, Yukitaka: *See—*
  Moribe, Yoshihiro; Hayashi, Yukitaka; Maekawa, Hideo; and Tsukui, Kunitsugu, 4,639,804, Cl. 360-105.000.

Hayashi, Yuko: *See—*
  Kuwabara, Takashi; Shimura, Yoshiharu; Hayashi, Yuko; Hanamure, Toshiyuki; Kanemori, Kaoru; and Yamakawa, Yoshihiro 4,711,098, Cl. 62-441.000.

Hayashi, Yutaka; Iida, Hideyo; and Mishuku, Toshio, to Taiyo Yuden Kabushiki Kaisha. Photoelectric transducer. 4,644,091, 2-17-87, C 136-259.000.

Hayashi, Yutaka; Itoh, Atsuo; and Iida, Hideyo, to Todoriki, Itaru; and Taiyo Yuden Kabushiki Kaisha. Thin-film forming device. 4,649,857, 3-17-87, Cl. 118-326.000.

Hayashi, Yutaka; Mishuku, Toshio; Yamanaka, Mitsuyuki; and Iida, Hideyo, to Agency of Industrial Science & Technology, Ministry of International Trade & Industry; and Taiyo Yuden Co., Ltd. Thin-film solar cell. 4,694,116, 9-15-87, Cl. 136-256.000.

Hayashibara, Ken: *See—*
  Endo, Yoichi; and Masaki, Kazumi, 4,697,581, Cl. 128-41.000.
  Masaki, Kazumi, 4,644,229, Cl. 315-310.000.
  Masaki, Kazumi, 4,654,579, Cl. 323-326.000.
  Masaki, Kazumi, 4,689,039, Cl. 604-20.000.
  Masaki, Kazumi, 4,694,292, Cl. 340-825.440.
  Masaki, Kazumi, 4,710,655, Cl. 310-30.000.
  Masaki, Kazumi, 4,710,698, Cl. 323-239.000.
  Masaki, Kazumi, 4,716,511, Cl. 363-49.000.

Hayashibara Seibutsu Kagaku Kenkyujo Kabushiki Kaisha: *See—*
  Sakai, Shuzo; Shibuya, Takashi; and Miyake, Toshio, 4,652,640, C 536-124.000.

Hayashida, Akira: *See—*
  Takamizawa, Minoru; Kobayashi, Taishi; Ishihara, Toshinobu Takeda, Yoshihumi; and Hayashida, Akira, 4,657,991, C 525-477.000.

Hayashida, Hironori: *See—*
  Maruyama, Seiichiro; Hayashida, Hironori; Morita, Kazumasa; and Shiraishi, Yoshitaka, 4,707,512, Cl. 524-504.000.

Hayashida, Hiroshi: *See—*
  Morinaga, Shigeki; Miyashita, Kunio; Hayashida, Hiroshi; and Takahashi, Tadashi, 4,638,225, Cl. 318-341.000.

Hayashida, Masatoshi; Suga, Takayuki; and Yamanaka, Hiroshi, to Kabushiki Kaisha Toshiba. Toner density detecting device. 4,650,310 3-17-87, Cl. 355-3.0DD.

Hayashida, Mitsuo: *See—*
  Nakano, Jun; Nagahara, Michiko; Hayashida, Mitsuo; Suzuki, Yuji and Maruyama, Yohichi, 4,652,566, Cl. 514-253.000.

Hayashida, Morimasa: *See—*
  Kutsukake, Mitsuhiro; Murata, Takahiko; Saito, Gunji; Komatsuzaki, Takeshi; Uehara, Kuniaki; Kato, Toshinobu; Hattori Takeo; and Hayashida, Morimasa, 4,711,077, Cl. 56-320.200.

Hayashida, Shigeru: *See—*
  Kigasawa, Kazuo; Ohtani, Hideaki; Tanaka, Makoto; and Hayashida, Shigeru, 4,695,465, Cl. 424-449.000.

Hayashida, Takahiro, to Mitsubishi Denki Kabushiki Kaisha. Positioning indexing control device for inverter apparatus. 4,687,978, 8-18-87, Cl. 318-599.000.

Hayashiguchi, Seizo. Window screen. 4,638,844, 1-27-87, Cl. 160-23.00R.

Hayashikane Shipbuilding & Engineering Co., Ltd.: *See—*
  Saotome, Kazuo, 4,647,617, Cl. 524-733.000.

Hayashima, Toshitaka: *See—*
  Suzaki, Masayuki; Nishiwaki, Shoji; Hayashima, Toshitaka; Uezu, Kazuo; Maehara, Hidejirou; and Momose, Masanori, 4,683,478, Cl. 346-76.0PH.

Hayashimoto, Yoshiaki; Tanuma, Chiaki; Yokoyama, Katsunori; and Harada, Nozomu, to Kabushiki Kaisha Toshiba. Swing-driven solid-state image sensor. 4,634,884, 1-6-87, Cl. 250-578.000.

Hayashitani, Masao: *See—*
  Orihashi, Tadaaki; Tsuji, Hiroshi; Ogawa, Kazuhiko; Hayashitani, Masao; Terada, Seiji; Miyagawa, Tsugio; and Isozaki, Hideo; 4,673,486, Cl. 208-86.000.

Hayata, Naohiro, to Sumitomo Rubber Industries, Ltd. Method of making a metal mold for tire vulcanization. 4,691,431, 9-8-87, Cl 29-526.00R.

Hayatdavoudi, Asadollah. Method and apparatus for inhibiting corro sion of well tubing. 4,665,981, 5-19-87, Cl. 166-250.000.

Hayatdavoudi, Asadollah, to Premiere Casing Services, Inc. Metho and apparatus for separating particles fluidly suspended in a slurry 4,670,161, 6-2-87, Cl. 210-739.000.

Hayatdavoudi, Asadollah; and Dalier, Paul H., to Petroleum Instrume tation & Technological Services. Static separator sub. 4,688,65 8-25-87, Cl. 175-324.000.

Hayatdavoudi, Asadollah: *See—*
  Shows, Jess W., Jr.; and Hayatdavoudi, Asadollah, 4,715,625, 285-145.000.

Hayatsu, Kazuo: *See—*
  Sugimoto, Hiroaki; Hayatsu, Kazuo; and Fujiwara, Masahi 4,713,435, Cl. 528-179.000.

Hayauchi, Yutaka: *See—*
Kruger, Bernd-Wieland; Hayauchi, Yutaka; Lockhoff, Oswald; Stadler, Peter; Metzger, Karl G.; Stunkel, Klaus G.; and Zeiler Hans-Joachim, 4,699,899, Cl. 514-42.000.

Haybuster Manufacturing, Inc.: *See—*
Anderson, Joseph A., 4,711,253, Cl. 130-27.00R.
Kopecky, Ivyl D., 4,638,748, Cl. 111-7.000.
Kopecky, Ivyl D., 4,674,419, Cl. 111-73.000.

Haycock, David A.: *See—*
Flora, Jay L.; and Haycock, David A., 4,663,544, Cl. 307-455.000.
Flora, Jay L.; and Haycock, David A., 4,675,905, Cl. 381-81.000.

Haycock, Derek E.: *See—*
Clarke, John; D'Eath, Roderick M.; and Haycock, Derek E., 4,687,612, Cl. 264-322.000.

Hayd, Axel; Meinke, Peter; Maurer, Martin; and Schwarz, Joachim, to M.A.N. Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Method of enhancing an ice-breaking operation. 4,636,607, 1-13-87, Cl. 219-121.0LM.

Hayday, Barbara E. Massaging device for massaging skin inside a cast, splint or the like. 4,667,659, 5-26-87, Cl. 128-62.00R.

Hayden, Charles C., to American Telephone and Telegraph Company; and AT&T Information Systems Inc. Graphics based call management. 4,653,090, 3-24-87, Cl. 379-204.000.

Hayden, Howard L.; Vaghani, Vallabh V.; and Readman, John, to Sundstrand Corporation. Rotating shaft electrical connection. 4,690,470, 9-1-87, Cl. 439-13.000.

Hayden, Jack W.: *See—*
Toelke, Lester W., 4,646,559, Cl. 73-46.000.
Toelke, Lester W., 4,646,561, Cl. 73-49.500.

Hayden, John H.; and Sheffler, Alvin W., to RCA Corporation. Multiple body handling operations on the space shuttle. 4,667,908, 5-26-87, Cl. 244-161.000.

Hayden, Leland E.: *See—*
Kennon, Jerry M.; and Hayden, Leland E., 4,707,679, Cl. 340-310.00A.

Hayden, Owen: *See—*
Dearden, Guy L.; and Hayden, Owen, 4,640,343, Cl. 165-70.000.

Hayden, Richard A.: *See—*
Conroy, Lawrence J.; and Hayden, Richard A., 4,669,781, Cl. 297-355.000.

Hayden, Richard F.: *See—*
Broderick, Thomas B.; Algrim, Donald J.; and Hayden, Richard F., 4,709,523, Cl. 52-406.000.

Hayden Schweitzer Corp.: *See—*
Johnson, Jeffrey C.; Rothon, Stephen; and Slater, Andrew J., 4,704,952, Cl. 98-115.200.

Hayden, Thomas J. Method and apparatus for orienting semiconductor wafers. 4,662,811, 5-5-87, Cl. 414-433.000.

Haydu, Robert. Protective coating for metals. 4,676,842, 6-30-87, Cl. 148-6.200.

Hayduchok, Leon; and Strauss, Leopold, to All-Mark Corporation, Inc. Kit comprising multicolored fluid dispenser markers together with eradicating fluid dispenser, stamps and stamp pad. 4,681,471, 7-21-87, Cl. 401-34.000.

Hayen, Johann: *See—*
Weissenberger, Helmuth; and Hayen, Johann, 4,669,594, Cl. 192-106.200.

Hayes, Alan B.; Brown, Russell A.; Jensen, Thomas W.; and Madsen, Bruce K., to Evans & Sutherland Computer Corporation. Computer graphics, parametric patch parallel subdivision processor. 4,646,251, 2-24-87, Cl. 364-518.000.

Hayes, Cecil, to W. M. Still & Sons Limited. Boilers or tanks for hot water. 4,653,389, 3-31-87, Cl. 99-280.000.

Hayes, Cecil, to W. M. Still & Sons Limited. Apparatus for making tea or coffee. 4,653,390, 3-31-87, Cl. 99-281.000.

Hayes, Cecil: *See—*
Snowball, Malcolm R.; and Hayes, Cecil, 4,682,537, Cl. 99-282.000.

Hayes, Cecil E.; and Eash, Matthew G., to General Electric Company. Shield for decoupling RF and gradient coils in an NMR apparatus. 4,642,569, 2-10-87, Cl. 324-318.000.

Hayes, Cecil E., to General Electric Company. Radio frequency field coil for NMR. 4,692,705, 9-8-87, Cl. 324-318.000.

Hayes, Cecil E., to General Electric Company. Radio frequency field coil for NMR. 4,694,255, 9-15-87, Cl. 324-318.000.

Hayes, Cecil E.: *See—*
Edelstein, William A.; Schenck, John F.; Mueller, Otward M.; and Hayes, Cecil E., 4,680,548, Cl. 324-318.000.

Hayes, Charles D.: *See—*
Maizlish, Bernard L.; Cardiges, Stanley J.; and Hayes, Charles D., 4,668,029, Cl. 312-250.000.

Hayes, David; and Rix, Francis E., to Marconi Avionics Limited. Multi-dimensional-access memory system with combined data rotation and multiplexing. 4,667,308, 5-19-87, Cl. 364-900.000.

Hayes, David V., to Corning Glass Works. Electrochemical machine apparatus with drill-depth and rate monitor. 4,687,563, 8-18-87, Cl. 204-224.00M.

Hayes, Earl J.; Cooper, Ralph M.; Denlinger, Keith R.; and Shuey, John R., to AMP Incorporated. Printed circuit board receptacle for sealed connector. 4,697,864, 10-6-87, Cl. 439-444.000.

Hayes, Earl J.; and Cooper, Ralph M., to AMP Incorporated. Sealed plug for a printed circuit board receptacle. 4,705,339, 11-10-87, Cl. 439-277.000.

Hayes, Gary B.: *See—*
Kittrell, Carter; Hayes, Gary B.; and Feld, Michael S., 4,648,892, Cl. 65-4.210.

Hayes, Gerald E.: *See—*
Barnes, Johnny G.; Chen, James N.; and Hayes, Gerald E., 4,707,801, Cl. 364-900.000.

Hayes, Harry, to Colgate-Palmolive Company. Preparation of phytate-salt free gel dentifrice. 4,659,504, 4-21-87, Cl. 252-315.300.

Hayes Industrial Brake, Inc.: *See—*
Buckley, James A. V., 4,715,479, Cl. 188-71.800.
Prusak, Allan E., 4,711,092, Cl. 60-534.000.

Hayes-Ivy Manufacturing Inc.: *See—*
Knight, Silsby H., 4,709,715, Cl. 134-172.000.

Hayes, John, to Tarn-Pure Limited. Water purification apparatus. 4,680,114, 7-14-87, Cl. 210-192.000.

Hayes, John J., to General Electric Company. CATV addressable converter with multi-purpose, bi-directional serial digital data port. 4,677,467, 6-30-87, Cl. 358-86.000.

Hayes, John J.; and Troutman, Dennis L., to General Electric Company. CATV system and method of curtailing reception of unauthorized service channels. 4,688,249, 8-18-87, Cl. 380-20.000.

Hayes, Kathryn S.; and Frihart, Charles R., to Union Camp Corporation. Bonding poly(vinylidene chloride). 4,652,327, 3-24-87, Cl. 156-244.220.

Hayes, Kathryn S.: *See—*
Veazey, Richard L.; and Hayes, Kathryn S., 4,690,982, Cl. 525-331.900.
Veazey, Richard L.; and Hayes, Kathryn S., 4,690,983, Cl. 525-331.900.
Veazey, Richard L.; and Hayes, Kathryn S., 4,694,047, Cl. 525-332.300.

Hayes, Lawrence R., to Combustion Engineering, Inc. Equipment transporter for nuclear steam generator. 4,661,309, 4-28-87, Cl. 376-248.000.

Hayes, Leonard L.: *See—*
Browning, Robert A., Jr.; Ely, Gary W.; and Hayes, Leonard L., 4,708,180, Cl. 144-213.000.

Hayes, Michael E.; Hood, Craig C.; Miller, Ronald E.; and Sharpe, Robert, to Petroleum Fermentations N.V. Method for printed circuit board and/or printed wiring board cleaning. 4,640,719, 2-3-87, Cl. 134-40.000.

Hayes, Michael E.; Hrebenar, Kevin R.; Deal, James F., III; and Bolden, Paul L., Jr., to Petroleum Fermentations N.V. Method for reducing emissions utilizing pre-atomized fuels. 4,666,457, 5-19-87, Cl. 44-51.000.

Hayes, Michael E.; Hrebenar, Kevin R.; Murphy, Patricia L.; Futch, Laurence E., Jr.; Deal, James F., III; and Bolden, Paul L., Jr., to Petroleum Fermentations N.V. Combustion of viscous hydrocarbons. 4,684,372, 8-4-87, Cl. 44-51.000.

Hayes, Michael E.; Hass, Gary R.; Sharpe, Robert; Nestaas, Eirik; and Ostrovsky, Mikhail V., to Petroleum Fermentations N.V. Method for improved oil recovery. 4,706,749, 11-17-87, Cl. 166-267.000.

Hayes, Michael L.; Mahr, Paul S.; and Tippie, John W., to Kinetic Systems Corporation. System and method for preventing tool breakage. 4,713,770, 12-15-87, Cl. 364-474.000.

Hayes, Michael R., to British Nuclear Fuels plc. Fabrication of nuclear fuel pellets. 4,643,873, 2-17-87, Cl. 419-33.000.

Hayes Microcomputer Products, Inc.: *See—*
Bhargava, Vikram, 4,716,499, Cl. 361-395.000.
Cressey, John R., 4,686,490, Cl. 332-1.000.
Duncanson, Jay P.; and Murray, Mark R., 4,700,358, Cl. 375-8.000.
Heatherington, Dale A., 4,670,887, Cl. 375-84.000.

Hayes-Pankhurst, Richard P.; and Smith, Brian D., to NPM International. Switches and keyboards. 4,634,818, 1-6-87, Cl. 200-5.00A.

Hayes, Paul M.: *See—*
Cordwell, Brian; and Hayes, Paul M., 4,692,713, Cl. 331-1.00A.

Hayes, Peter F., to Omniverse Research, Inc. MIG welder attachment for an electric hand drill. 4,703,156, 10-27-87, Cl. 219-136.000.

Hayes, Peter R., to BCIRA. Curing foundry moulds and cores. 4,678,020, 7-7-87, Cl. 164-16.000.

Hayes, Raymond; and Peter, Joseph R., to Tektronix, Inc. High speed data acquisition utilizing multiplex charge transfer devices. 4,648,072, 3-3-87, Cl. 365-45.000.

Hayes, Raymond M.; Kirkpatrick, Thomas L.; Lauletta, John L.; Shuter, Timothy C.; and Vollkommer, Harry T., Jr. Method of and system for determining locations of sources of harmonics in a power distribution network. 4,667,152, 5-19-87, Cl. 324-77.00R.

Hayes, Richard A., to Du Pont de Nemours, E. I., and Company. Polyimide gas separation membranes. 4,705,540, 11-10-87, Cl. 55-16.000.

Hayes, Robert A.; and Conard, Wendell R., to Firestone Tire & Rubber Company, The. Vulcanizable polymeric compositions containing a zinc dimethacrylate adjuvant and method for preparing the adjuvant. 4,713,409, 12-15-87, Cl. 524-518.000.

Hayes, Robert B.: *See—*
Stephens, Lawrence K.; and Hayes, Robert B., 4,644,478, Cl. 364-550.000.

Hayes, Roger: *See—*
Clitherow, John W.; Bradshaw, John; Mackinnon, John W. M.; Judd, Duncan B.; Bays, David E.; Hayes, Roger; and Pearce, Andrew, 4,670,448, Cl. 514-334.000.

Hayes Separation, Inc.: *See—*
Hayes, William V.; and Turner, Albert H., 4,643,735, Cl. 623-16.000.
Hayes, William V.; and Turner, Albert H., 4,705,519, Cl. 623-16.000.

Hayes, Starr R. Clean up glove. 4,677,697, 7-7-87, Cl. 2-159.000.

Hayes, Thomas E.: *See—*
Spence, Scott L.; Hayes, Thomas E.; and Jamieson, J. Scott, 4,677,357, Cl. 318-335.000.

Hayes, Thomas H., to Anchor Hocking Corporation. Dispenser package. 4,651,905, 3-24-87, Cl. 222-394.000.

Hayes, Thomas H., to Anchor Hocking Corporation. Tamper-evident closure. 4,657,153, 4-14-87, Cl. 215-252.000.

Hayes, Thomas H., to Anchor Hocking Corporation. Tamper evident composite closure. 4,694,970, 9-22-87, Cl. 215-252.000.

Hayes, William, to Arc Rebuilders, Inc. Filter device having baffle retainer for deflecting fluid flow and preventing filter clogging. 4,650,572, 3-17-87, Cl. 210-131.000.

Hayes, William K.: *See—*
Rubin, Richard H.; Hillman, Gary; Zarr, Lewis E.; and Hayes, William K., 4,685,852, Cl. 414-404.000.

Hayes, William R., to White Consolidated Industries, Inc. Seal for high performance butterfly valve. 4,676,481, 6-30-87, Cl. 251-173.000.

Hayes, William V.; and Turner, Albert H., to Hayes Separation, Inc. Repair material for use with bones. 4,643,735, 2-17-87, Cl. 623-16.000.

Hayes, William V.; and Turner, Albert H., to Hayes Separation, Inc. Repair material for use with bones. 4,705,519, 11-10-87, Cl. 623-16.000.

Hayford, Robert L., Jr. Video game control console. 4,648,603, 3-10-87, Cl. 273-148.00B.

Haygarth, John C., to Teledyne Industries, Inc. Processes for producing improved wear resistant coatings on zirconium shapes. 4,671,824, 6-9-87, Cl. 148-6.110.

Haygood, David K.: *See—*
Noel, Raymond; Robinson, William M.; Cherian, Gabe; Clifford, Thomas H.; Carlomagno, William D.; Deasy, William M.; Grassauer, Willie K.; Haygood, David K.; Sherlock, H. Paul; and White, Harry E., 4,712,721, Cl. 228-56.300.

Haygood, Norman M., Jr.: *See—*
Vrabel, Robert J.; Vajgart, Jeffery L.; Staszel, Lawrence E.; Ewald, Henry J.; Haygood, Norman M., Jr.; and Misewicz, Leon M., 4,678,975, Cl. 318-266.000.

Hayles, Donald G.; and Hepworth, Mark N., to Rockwell International Corporation. Arbitrary raster blanking circuit. 4,663,618, 5-5-87, Cl. 340-732.000.

Haylock, John C.: *See—*
Dunkle, Steven R.; and Haylock, John C., 4,687,795, Cl. 523-436.000.

Hayman, Cecil: *See—*
Restall, James E.; and Hayman, Cecil, 4,687,684, Cl. 427-248.100.
Restall, James E.; and Hayman, Cecil, 4,698,130, Cl. 156-646.000.

Hayman, Dennis J., to United States Brass Corporation. Tub-shower diverter apparatus. 4,681,140, 7-21-87, Cl. 137-597.000.

Hayman, Eric R.; and Penniman, Scott R., to Shaw/Walker Company. Clipboard for one-write check writing and recording systems. 4,684,154, 8-4-87, Cl. 282-29.00R.

Haymore, Ralph B.: *See—*
Armitage, Jack R.; and Haymore, Ralph B., 4,647,215, Cl. 366-266.000.

Hayn, Eberhard: *See—*
Wittmann, Bernd; and Hayn, Eberhard, 4,636,413, Cl. 428-33.000.

Hayner, Mark A.: *See—*
Richmond, Martin R.; and Hayner, Mark A., 4,646,644, Cl. 102-530.000.

Hayner, Paul F., to Sanders Associates, Inc. Pilot valve. 4,664,135, 5-12-87, Cl. 137-82.000.

Hayner, Roger E., to Ashland Oil, Inc. Waterborne firm coating for temporary protection of parts, providing controlled lubrication during assembly. 4,647,309, 3-3-87, Cl. 106-14.130.

Hayner, Roger E., to Ashland Oil, Inc. Metal-sulfonate/piperidine derivative combination protective coatings. 4,650,692, 3-17-87, Cl. 427-27.000.

Haynes, Charles W.; and Gault, Frank W., to Joy Manufacturing Company. Tong assembly. 4,648,292, 3-10-87, Cl. 81-57.160.

Haynes, Darrel W., to Haynes, Darrel W. Device and method for plugging an intramedullary bone canal. 4,697,584, 10-6-87, Cl. 128-92.0VQ.

Haynes, David P.: *See—*
Crossley, Edward A., Jr.; Haynes, David P.; Jones, Howard C.; and Jones, Irby W., 4,672,202, Cl. 250-238.000.

Haynes, Joel E. Fluid flow sensor. 4,635,476, 1-13-87, Cl. 73-249.000.

Haynes, John L., to Becton Dickinson and Company. Data storage system having means for compressing input data from sets of correlated parameters. 4,700,294, 10-13-87, Cl. 364-200.000.

Haynes, John M., to Clay Cross Company Limited, The. Load-indicating devices. 4,703,711, 11-3-87, Cl. 116-212.000.

Haynes, Louis V.; Pflaumer, Phillip F.; Rizzi, George P.; and Roberts, Bruce A., to Procter & Gamble Co., The. Flavor system having high chocolate flavor impact. 4,707,365, 11-17-87, Cl. 426-94.000.

Haynes, Ralph G., to Davy McKee (Sheffield) Limited. Rolling mill. 4,658,622, 4-21-87, Cl. 72-249.000.

Haynes, Robert W., to Terra International, Inc. Mechanism for and method of agricultural chemical formulation. 4,693,609, 9-15-87, Cl. 366-136.000.

Haynes, William L.: *See—*
Gadkaree, Kishor P.; Haynes, William L.; and Lu, Kun-Er, 4,711,860, Cl. 501-9.000.

Haynes, William P. Carpenter's template. 4,651,434, 3-24-87, Cl. 33-481.000.

Haynie, Timothy J., to Chicago Bridge & Iron Company. Vertical shell and tube heat exchanger with spacer or clip to form uniform thickness falling films on exterior surfaces of tubes. 4,641,706, 2-10-87, Cl. 165-118.000.

Hays, Byron G., to BASF Corporation, Inmont Division. Amine-free, easily dispersible diarylide yellow pigment compositions. 4,643,770, 2-17-87, Cl. 106-23.000.

Hays, Byron G.; and Stanaback, Robert J., to BASF Corporation. High color strength diarylide yellow pigment compositions. 4,648,907, 3-10-87, Cl. 106-30.000.

Hays, Byron G., to BASF Corporation, Inmont Division. Easily flushable transparent, strong diarylide yellow pigment compositions 4,680,057, 7-14-87, Cl. 106-23.000.

Hays, Frank W.: *See—*
Wise, Carl D.; and Hays, Frank W., 4,642,643, Cl. 342-14.000.
Wise, Carl D.; Hays, Frank W.; and Lisle, Thomas K., Jr., 4,642,644, Cl. 342-14.000.

Hayssen Manufacturing Company: *See—*
Kovacs, Lloyd, 4,693,058, Cl. 53-552.000.
Kovacs, Lloyd; and Horsman, Dennis P., 4,703,608, Cl. 53-410.000.

Haytayan, Harry M., to Pneutek, Inc. Powder-actuated fastener-driving tool. 4,655,380, 4-7-87, Cl. 227-9.000.

Hayter, Paul A.: *See—*
Bailey, John W.; Hayter, Paul A.; Mason, Brian R.; and Turner, Graham N., 4,714,875, Cl. 324-73.0PC.

Haythornthwaite, James. Glass razor blade and handle. 4,702,004, 10-27-87, Cl. 30-57.000.

Hayton, Eugene P.; Peters, Gerald; and Failor, Raymond A., to Simmons Universal Corporation. X-ray cassette holder for a trauma stretcher. 4,651,364, 3-24-87, Cl. 5-60.000.

Hayton, Eugene P.: *See—*
Peters, Gerald; Hayton, Eugene P.; and Failor, Raymond A., 4,641,385, Cl. 5-82.00R.

Hayward, David J.: *See—*
Crupi, Joseph A.; Hayward, David J.; and Jones, David F., 4,703,416, Cl. 364-200.000.

Hayward, Gary G., to Continental Can Company, Inc. Liquid inert gas dispenser and control. 4,662,154, 5-5-87, Cl. 53-431.000.

Hayward, Geoffrey, to Heraeus Quarzschmelze GmbH. Apparatus for automatically loading a furnace with semiconductor wafers. 4,669,938, 6-2-87, Cl. 414-156.000.

Hayward, James A.: *See—*
Chapman, Dennis; and Hayward, James A., 4,675,310, Cl. 514-6.000.

Hayward, Marshall A., to American Home Products Corporation. Inhibition of bone resorption by etodolac. 4,677,132, 6-30-87, Cl. 514-411.000.

Hayward, Milton L., and Harper, William H. Positioning and locking apparatus. 4,676,712, 6-30-87, Cl. 414-411.000.

Hayward, Robert D., to Gilbert Engineering Company, Inc. Non-radiating coaxial outlet. 4,681,390, 7-21-87, Cl. 439-578.000.

Hayward, Royal C.: *See—*
Benjamin, Jay H.; Gray, James P.; Hayward, Royal C.; Hess, Matthew L.; McGriff, Frederick E.; Miller, Ellis L.; and Weingarten, Robert A., 4,677,588, Cl. 364-900.000.

Haywood, Kenneth H.: *See—*
Edwards, David M.; and Haywood, Kenneth H., 4,643,670, Cl. 431-202.000.

Hayworth, Hubert O.: *See—*
Miller, Gayle W.; Szluk, Nicholas J.; McKinley, William W.; Hayworth, Hubert O.; and Maheras, George, 4,654,121, Cl. 156-653.000.

Hayworth, Robert G.: *See—*
Russell, Ray E., Jr.; and Hayworth, Robert G., 4,668,950, Cl. 340-825.650.

Hazaki, Eiichi: *See—*
Yoshioka, Masahiro; Izumi, Hideki; Inouye, Hiroshi; Hazaki, Eiichi; and Nakadaira, Shiro, 4,639,146, Cl. 384-99.000.

Hazama, Junji; Kato, Kinya; Tanimoto, Akikazu; and Izawa, Hisao, to Nippon Kogaku K. K. Apparatus for aligning mask and wafer used in semiconductor circuit element fabrication. 4,636,626, 1-13-87, Cl. 250-201.000.

Hazama, Junji: *See—*
Kodama, Kenichi; Tanimoto, Akikazu; Izawa, Hisao; Hamashima, Yoichi; and Hazama, Junji, 4,685,805, Cl. 356-373.000.

Hazama, Yoshikazu: *See—*
Soneda, Mitsuo; and Hazama, Yoshikazu, 4,694,341, C 358-160.000.

Hazan, Jean-Pierre; and Steers, Michel, to U.S. Philips Corporatio Method of and device for determining when a liquid-renewal proce is to be terminated. 4,639,137, 1-27-87, Cl. 356-339.000.

Hazan, Jean-Pierre; and Steers, Michel, to U.S. Philips Corporatio Microwave oven having control means which reduce the risk no-load operation. 4,713,514, 12-15-87, Cl. 219-10.55B.

Hazano, Shigeki; Shibagaki, Masahiro; Jyo, Hidetaka; Sensui, Reiichi Iwami, Munenori; and Suzuki, Noboru, to Kabushiki Kaisha Toshi and Kabushiki Kaisha Tokuda Seisakusho. Apparatus for produci semiconductor devices. 4,693,777, 9-15-87, Cl. 156-345.000.

Hazard, James E., to Scott Paper Company. Roll tissue dispen 4,660,781, 4-28-87, Cl. 242-55.200.

Hazard, James T. Face shield device. 4,701,129, 10-20-87, 433-136.000.

Hazato, Atsuo; Sugiura, Satsohi; Kurozumi, Seizi; and Noyori, Ryoj Teijin Limited. 4-hydroxy-2-cyclopentenone, process for produc thereof, pharmaceutical composition comprising it. 4,711, 12-8-87, Cl. 514-530.000.

azato, Atsuo: *See*—

Tanaka, Toshio; Hazato, Atsuo; and Kurozumi, Seizi, 4,649,156, Cl. 514-530.000.

azato, Tadahiko: *See*—

Kakimoto, Norihiro; Katayama, Takashi; Hazato, Tadahiko; and Ohnishi, Tsutomu, 4,681,960, Cl. 556-83.000.

aze, Setsuo, to Kabushiki Kaisha Ishida Koki Seisakusho. Combinatorial weighing method and apparatus. 4,642,788, 2-10-87, Cl. 364-567.000.

aze, Setsuo, to Ishida Scales Mfg. Co., Ltd. Combinatorial weighing machine with weighing and counting modes. 4,645,020, 2-24-87, Cl. 177-25.000.

Haze, Setsuo, and Fujitani, Yugo, to Kabushiki Kaisha Ishida Koki Seisakusho. Mixing combinatorial counting and weighing method and apparatus therefor. 4,661,917, 4-28-87, Cl. 364-567.000.

Haze, Setsuo, to Kabushiki Kaisha Ishida Koki Seisakusho. Automatic zero-adjustment method and apparatus. 4,661,920, 4-28-87, Cl. 364-571.000.

Haze, Setsuo, to Kabushiki Kaisha Ishida Koki Seisakusho. System for compulsory participation of weighing machines in combinatorial weighing. 4,666,002, 5-19-87, Cl. 177-1.000.

Haze, Setsuo: *See*—

Naito, Kazufumi; Haze, Setsuo; Nobutugu, Hideo; Nakagawa, Yukio; Yamada, Seiji; and Murata, Shuji, 4,694,920, Cl. 177-25.000.

Hazebrook, Daniel W., to GKN Automotive Components Inc. Universal joint capable of accommodating thrust loads. 4,634,402, 1-6-87, Cl. 464-141.000.

Hazebrook, Daniel W., to GKN Automotive Components Inc. Sliding-segment boot for plunging mechanical joint. 4,664,393, 5-12-87, Cl. 277-174.000.

Hazebrouck, Henry B., to Priam Corporation. Rotary actuator having preloaded spring crash stop. 4,635,151, 1-6-87, Cl. 360-105.000.

Hazebrouck, Henry B., to Priam (Delaware) Corporation. Thermal compensation for disk drive carriage assembly. 4,703,377, 10-27-87, Cl. 360-106.000.

Hazelden, David: *See*—

Burr, Kenneth J.; Smith, Laurence S.; and Hazelden, David, 4,704,899, Cl. 73-61.00R.

Hazelett, Robert W.; Petry, Charles J.; and Platek, Stanley W., to Hazelett Strip-Casting Corporation. Method and apparatus for feeding and continuously casting molten metal with inert gas applied to the moving mold surfaces and to the entering metal. 4,648,438, 3-10-87, Cl. 164-475.000.

Hazelett, Robert W.; and Hazelett, Samuel R., to Hazelett Strip-Casting Corporation. Systems for shaping the casting region in a twin-belt continuous casting machine for improving heat transfer and product uniformity and enhanced machine performance. 4,658,883, 4-21-87, Cl. 164-432.000.

Hazelett, Robert W.; and Hazelett, Samuel R., to Hazelett Strip-Casting Corporation. Methods for shaping the casting region in a twin-belt continuous casting machine for improving heat transfer and product uniformity and enhanced machine performance. 4,674,558, 6-23-87, Cl. 164-481.000.

Hazelett, Samuel R.: *See*—

Hazelett, Robert W.; and Hazelett, Samuel R., 4,658,883, Cl. 164-432.000.

Hazelett, Robert W.; and Hazelett, Samuel R., 4,674,558, Cl. 164-481.000.

Hazelett Strip-Casting Corporation: *See*—

Hazelett, Robert W.; Petry, Charles J.; and Platek, Stanley W., 4,648,438, Cl. 164-475.000.

Hazelett, Robert W.; and Hazelett, Samuel R., 4,658,883, Cl. 164-432.000.

Hazelett, Robert W.; and Hazelett, Samuel R., 4,674,558, Cl. 164-481.000.

Kaiser, Timothy D.; and Ackel, Gary P., 4,712,602, Cl. 164-453.000.

Wood, John F. B., 4,671,341, Cl. 164-432.000.

Wood, John F. B.; Kaiser, Timothy D.; Allyn, Jerome B.; Dykes, Charles D.; Kalaskie, Frank E.; Carmichael, Robert J.; and Simon, Charles R., 4,694,899, Cl. 164-452.000.

Hazeltine Corporation: *See*—

Baurle, Herbert F.; and Masak, Raymond J., 4,651,155, Cl. 342-378.000.

Enein, Mohamed, 4,677,442, Cl. 342-410.000.

Feldman, Paul H., 4,697,141, Cl. 324-158.00R.

Friedman, Clifford H., 4,649,396, Cl. 343-705.000.

Hannan, Peter W., 4,638,324, Cl. 343-909.000.

Lopez, Alfred R., 4,670,756, Cl. 342-372.000.

Louie, Chuen W.; Roelofs, Darrell D.; Volk, John L.; and Romeo, Arthur L., 4,673,847, Cl. 315-368.000.

Reeber, Nicholas J.; and Kerbel, Sheldon J., 4,635,108, Cl. 358-76.000.

Robinson, Tyler C.; Sula, Wayne J.; Larson, Roger C.; and Wallace, William J., 4,675,686, Cl. 343-709.000.

Spieth, Robert H.; Louie, Chuen W.; Volk, John L.; Roelofs, Darrell D.; DeLorenzo, Anthony N.; Romeo, Arthur L.; and Mayer, Thomas L., 4,680,510, Cl. 315-368.000.

Spieth, Robert H.; and DeLorenzo, Anthony N., 4,709,262, Cl. 358-74.000.

Torre, Frank M.; and Courtien, John F., 4,644,560, Cl. 375-1.000.

Torre, Frank M.; Crush, John F., and Masak, Raymond J., 4,706,261, Cl. 375-27.000.

Vasile, Carmine F., 4,705,967, Cl. 307-304.000.

Wheeler, Harold A.; and Friedman, Clifford H., 4,635,068, Cl. 343-749.000.

Hazeltine, Michael B.; and Lipchak, W. Michael, Jr., to Raytheon Company. Fizeau interferometer. 4,643,575, 2-17-87, Cl. 356-351.000.

Hazelton, Donald R.; and Puydak, Robert C., to Exxon Research & Engineering Co. Heat shrinkable thermoplastic olefin composition. 4,639,487, 1-27-87, Cl. 524-425.000.

Hazelton, Donald R.: *See*—

Frain, William J., III; Hazelton, Donald R.; and Young, Edgar W., 4,673,604, Cl. 428-95.000.

Hazen, Albert A. Safety device for power driven chain saws. 4,658,507, 4-21-87, Cl. 30-382.000.

Hazen, John O., to H. H. Robertson Company. Closure member for an electrical activating assembly. 4,656,798, 4-14-87, Cl. 52-221.000.

Hazen, John O.: *See*—

Albrecht, Raymond E.; Gartner, Rodney W.; Hazen, John O.; and Lindner, Robert G., 4,656,795, Cl. 52-126.600.

Hazenbroek, Jacobus E.; Verrijp, Bastiaan; and Wallbridge, William L., to Systemate B.V. Poultry breast filleting system. 4,682,386, 7-28-87, Cl. 17-46.000.

Hazfalvy, Zoltan: *See*—

Hudacsek, Istvan; Orcsik, Geza; Hazfalvy, Zoltan; Kotsis, Laszlo; Nemeth, Endre; Noe, Laszlo; and Ovari, Ferenc, 4,703,645, Cl. 73-11.000.

Hazlegrove, Billy M.; and Roberts, Richard A., to Brown & Root, Inc. Method and apparatus for simultaneous trenching and pipe laying in an arctic environment. 4,710,059, 12-1-87, Cl. 405-162.000.

Haznedar, Errol A.: *See*—

Raskin, Donald; Kearney, James E.; and Haznedar, Errol A., 4,716,556, Cl. 367-168.000.

Hazony, Dov; and Berris, Richard E., Jr., to J. W. Harley Pump Works, Inc. Ultrasonic tranducer. 4,649,749, 3-17-87, Cl. 73-597.000.

Hazue, Masaaki: *See*—

Takahashi, Keietsu; Ueda, Nobuo; Hazue, Masaaki; Yokoyama, Akira; and Ohmomo, Yoshiro, 4,645,660, Cl. 424-1.100.

Takahashi, Keietsu; Ueda, Nobuo; and Hazue, Masaaki, 4,666,697, Cl. 424-1.100.

Hazuki, Yoshikazu, to Kabushiki Kaisha Toshiba. Forming multilayer interconnections for a semiconductor device by vapor phase growth process. 4,670,967, 6-9-87, Cl. 29-576.00B.

HBOG-Oil Sands Limited Partnership: *See*—

Al-Saigh, Abbas, 4,642,223, Cl. 422-191.000.

Schramm, Laurier L., 4,637,417, Cl. 137-4.000.

HCC, Inc.: *See*—

Gessel, James M.; Jasper, Edward P.; and Kunz, Gary L., 4,706,448, Cl. 56-400.000.

HDS, Inc.: *See*—

Ditsch, John R.; Williams, Theodore G.; and Berrios, Luis H., 4,678,181, Cl. 272-68.000.

He, Ping; and Greenleaf, James F., to Mayo Medical Resources. Ultrasound scanner for tissue characterization. 4,658,827, 4-21-87, Cl. 128-660.000.

Head, David F.: *See*—

Kafka, James D.; Baer, Thomas M.; and Head, David F., 4,685,107, Cl. 372-6.000.

Petersen, Alan B.; Rempel, Robert C.; Lastovka, Joseph B.; Head, David F.; and Carlson, Lee R., 4,677,640, Cl. 372-103.000.

Head, Donald L., to Mead Corporation, The. Apparatus and method for light value gray scale recording. 4,636,807, 1-13-87, Cl. 346-1.100.

Head, Donald L.: *See*—

Saccocio, Edward J.; Kiser, T. Kay; Wright, Richard F.; and Head, Donald L., 4,675,269, Cl. 430-138.000.

Head, Glenn D., Jr.; and Postal, Jeffrey J., to Deere & Company. Pivoting spring-cushioned press wheel gang assembly. 4,700,641, 10-20-87, Cl. 111-85.000.

Head, Robert E.; and Yao, Samuel S., to Hughes Helicopters Inc. All composite, constant speed universal joint for use in a shaft driven tiltable main rotor for a helicopter. 4,695,227, 9-22-87, Cl. 416-134.00A.

Head Stereo GmbH, Kopfbezogene Aufnahme-und Weidergabetechnik & Co.: *See*—

Genuit, Klaus, 4,672,569, Cl. 364-801.000.

Head, W. John; and Watson, Francis M., to Honeywell Limited. Compensated light sensor system. 4,701,669, 10-20-87, Cl. 315-155.000.

Head, William J.: *See*—

Becht, Cletus A.; Cressman, Peter M.; Head, William J.; and White, John R., 4,689,106, Cl. 156-406.200.

Headen, James, to Radian Tool Corporation. Method of manufacturing unidirectional drive tool. 4,709,598, 12-1-87, Cl. 76-114.000.

Header, Stephen; Moore, Jerry L.; and Taylor, Attalee S., to AMP Incorporated. Circuit board edge connector. 4,687,267, 8-18-87, Cl. 439-62.000.

Headrick, C. Ronald, to Gradall Company, The. Rear drive inching control for a four wheel drive vehicle. 4,651,846, 3-24-87, Cl. 180-243.000.

Headrick, Michael R., to International Business Machines Corporation. Environmental sensor control of a heated fuser. 4,672,177, 6-9-87, Cl. 219-216.000.

Headrick, Richard T. Solar generator mounting structure. 4,668,841, 5-26-87, Cl. 136-246.000.

Heagerty, Michael S. Drawing guide. 4,680,864, 7-21-87, Cl. 33-26.000.

Heal, Gordon B.: *See*—

Palatucci, Gerald J.; Nowicki, Chester M.; and Heal, Gordon B., 4,658,359, Cl. 364-424.000.

Heald, Anthony F.: *See—*

Bare, Thomas M.; and Heald, Anthony F., 4,645,838, Cl. 546-84.000.

Heald, Charles J.; and Steele, Stanley V. Lock and protective cover assembly. 4,651,543, 3-24-87, Cl. 70-54.000.

Heald, Jerry D. Method and apparatus for crack detection and characterization. 4,680,470, 7-14-87, Cl. 250-358.100.

Healey, Brian J., to Fiberlock Technologies, Inc. Shelter. 4,682,448, 7-28-87, Cl. 52-63.000.

Healey, Fritz W.: *See—*

Dawson, Christopher; Healey, Fritz W.; and Taylor, Leo O., 4,712,885, Cl. 350-443.000.

Healey, Gordon. Roof for golf cart. 4,650,238, 3-17-87, Cl. 296-37.700.

Healey, John C.; and Wragg, Anthony, to General Foods Limited. Process for the condensation of a volatile-rich vapor stream. 4,670,278, 6-2-87, Cl. 426-387.000.

Healey, Robert. Printing machine. 4,704,962, 11-10-87, Cl. 101-269.000.

Health and Home Products: *See—*

Widinski, Paul R.; and Taylor, Glenn N., 4,700,943, Cl. 272-96.000.

Health Research, Incorporated: *See—*

Conway de Macario, Everly; Jovell, Robert J.; and Macario, Alberto J. L., 4,682,890, Cl. 356-244.000.

Conway de Macario, Everly; Jovell, Robert J.; and Macario, Alberto J. L., 4,682,891, Cl. 356-244.000.

Dougherty, Thomas J.; Potter, William R.; and Weishaupt, Kenneth R., 4,649,151, Cl. 514-410.000.

Pierson, Martha, 4,645,760, Cl. 514-39.000.

Health Research, Inc. (Roswell Park Division): *See—*

Anderson, Garth R.; Manly, Kenneth F.; and Mittelman, Arnold, 4,654,301, Cl. 435-26.000.

Dembinski, Wlodzimierz E.; and Sulkowski, Eugene, 4,658,017, Cl. 530-351.000.

Healthdyne, Inc.: *See—*

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Healy, Henry S.: *See—*

DiValentin, Eugene D.; and Healy, Henry S., 4,703,189, Cl. 290-44.000.

Doman, Glidden S.; Kos, Joseph M.; Harner, Kermit I.; DiValentin, Eugene D.; and Healy, Henry S., 4,695,736, Cl. 290-44.000.

Healy, John T.; and Johnson, Joel W., to Westinghouse Electric Corp. Combustor feeding arrangement. 4,714,031, 12-22-87, Cl. 110-109.000.

Healy, Lawrence R., Jr.: *See—*

Husmann, Robert J.; and Healy, Lawrence R., Jr., 4,703,313, Cl. 340-550.000.

Heamon, Mark L., to Swiss Aluminium Ltd. Filtration apparatus. 4,640,497, 2-3-87, Cl. 266-227.000.

Hean, Charles R.: *See—*

Knorowski, Victor J.; Hean, Charles R.; and Placek, Ronald J., 4,682,934, Cl. 416-198.00A.

Hean, George J., Sr. Theft resistant cabinet for coin operated equipment. 4,684,035, 8-4-87, Cl. 220-346.000.

Heaney, Dennis J.; and Reiter, Wm. Bruce, to Vollrath Company, The. Steam table pan. 4,660,734, 4-28-87, Cl. 220-74.000.

Heaney, William F.; and Nitsch, Albert R., to Mobil Oil Corporation. Heavy oil coking process. 4,670,133, 6-2-87, Cl. 208-131.000.

Heard, Charles M.; and Yang, Frank C., to Hughes Aircraft Company. Adaptive recursive phase offset tracking system. 4,712,222, 12-8-87, Cl. 375-77.000.

Heard, Maurice C., to General Electric Company p.l.c., The. Exposure meter. 4,671,655, 6-9-87, Cl. 356-227.000.

Heard, Nigel A., to Shell Oil Company. Method and apparatus for uniform microwave bulk heating of thick viscous materials in a cavity. 4,684,776, 8-4-87, Cl. 219-10.55M.

Heard, Robert A. H., to Signfix Limited. Offset sign mounting. 4,705,253, 11-10-87, Cl. 248-219.400.

Heard, Roderick S.; and Tremoulet, Joseph C., to International Business Machines Corporation. Spelling verification system with immediate operator alerts to non-matches between inputted words and words stored in plural dictionary memories. 4,689,768, 8-25-87, Cl. 364-900.000.

Heare, Nicole G. Insect protective garment. 4,685,152, 8-11-87, Cl. 2-4.000.

Hearn, David D.: *See—*

Schuh, Frank J.; and Hearn, David D., 4,653,598, Cl. 175-75.000.

Schuh, Frank J.; and Hearn, David D., 4,674,580, Cl. 175-325.000.

Hearn, Larry J.; and Whedon, Parker. Box type turkey call with eccentrically mounted actuator. 4,664,641, 5-12-87, Cl. 446-397.000.

Hearn, Larry J.: *See—*

Whedon, Parker; and Hearn, Larry J., 4,642,065, Cl. 446-209.000.

Heartz, Robert A., to General Electric Company. Terrain/seascape image generator with math model data base. 4,715,005, 12-22-87, Cl. 364-521.000.

Heasley, Raymond E.: *See—*

Anderson, Harry E.; and Heasley, Raymond E., 4,673,103, Cl. 221-186.000.

Heaston, Bruce A., to General Motors Corporation. Power latch circuit for computer self deactivation. 4,685,023, 8-4-87, Cl. 361-88.000.

Heat Exchanger Industries, Inc.: *See—*

Warner, Donald F., 4,669,530, Cl. 165-1.000.

Warner, Donald F., 4,705,101, Cl. 165-104.310.

Heat Extractor, Inc.: *See—*

Ben-Shmuel, Dan; and Zacuto, Philip, 4,651,923, Cl. 237-53.000.

Heat Transfer Specialties, Inc.: *See—*

Wooden, William G., 4,655,194, Cl. 126-299.00D.

Heater, Thomas J.: *See—*

Martin, Robert A.; and Heater, Thomas J., 4,640,333, C 164-246.000.

Martin, Robert A.; and Heater, Thomas J., 4,640,728, C 156-245.000.

Heath, Alastair E. F.: *See—*

Bussey, Stephen; Cockburn, Barry; and Heath, Alastair E. F 4,714,998, Cl. 364-431.010.

Heath, Allan B.; and Gossman, Richard G. Liquid atomizing nozzle f spray apparatus. 4,714,199, 12-22-87, Cl. 239-412.000.

Heath, Allen W., to International Business Machines Corporatio Table driven print formatting. 4,710,886, 12-1-87, Cl. 364-519.00

Heath, Allen W.: *See—*

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Heath, James G., to Illinois Tool Works Inc. Over-center actuato switch. 4,692,572, 9-8-87, Cl. 200-17.00R.

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Heath, Keith L.: *See—*

Braun, Ralph W.; Czech, Edward A.; and Heath, Keith L 4,664,584, Cl. 414-541.000.

Heath Manufacturing Company: *See—*

Hebron, Lewis L.; and Rampley, Neal, 4,646,795, Cl. 141-98.00

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Heath, Peter W., to General Motors Corporation. Thigh support fo vehicle seat. 4,693,513, 9-15-87, Cl. 297-284.000.

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Heath, Robert B.; and Nagel, Colin M., to Safe-N-Sound Pty. Limited Child restraint bassinet. 4,681,368, 7-21-87, Cl. 297-250.000.

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Gerlach, Charles R.; and Heath, Rodney T., 4,659,344, C 55-29.000.

Heath, Roger L., to R2 Corporation. Physiological electrodes for use with magnetic connector. 4,653,503, 3-31-87, Cl. 128-640.000.

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Heath, Vernon. Laser fired steam boiler. 4,658,115, 4-14-87, C 219-275.000.

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Heatherington, Dale A., to Hayes Microcomputer Products, Inc. Multiplexed PSK demodulator. 4,670,887, 6-2-87, Cl. 375-84.000.

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Heatwole, Richard L. Amusement and/or exercising device. 4,700,94 10-20-87, Cl. 272-146.000.

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- Hebel, Gregory F.; and Temkin, Gregg A., to Homaco, Inc. Quick connect frame. 4,641,754, 2-10-87, Cl. 211-26.000.
- Hebenstreit GmbH: *See—*
  - Plicht, Hans-Jurgen; and Runkel, Heinrich, 4,648,314, Cl. 99-373.000.
- Heber, Helmut; Eberle, Reinhard; and Teetz, Volker, to Behringwerke Aktiengesellschaft. Chromogenic compounds, a process for their preparation and their use. 4,665,016, 5-12-87, Cl. 435-23.000.
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  - Janssen, Bernd; Meyer, Norbert; Pommer, Ernst-Heinrich; Ammermann, Eberhard; Kohlmann, Friedrich-Wilhelm; Wesenberg, Walter; and Heberle, Wolfgang, 4,670,454, Cl. 514-383.000.
- Heberlein Hispano S.A.: *See—*
  - Vignon, Louis, 4,633,663, Cl. 57-340.000.
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- Heberlein, Werner: *See—*
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- Hebert, Alfred M. Oil filter. 4,642,183, 2-10-87, Cl. 210-232.000.
- Hebert, Barbara A. New Orleans wind chimes. 4,686,878, 8-18-87, Cl. 84-404.000.
- Hebert, David F., to National Semiconductor Corporation. Semiconductor package with tape mounted die. 4,649,415, 3-10-87, Cl. 357-74.000.
- Hebert, Donald G., to DH Technology, Inc. High-speed wire print head with wire print position shift apparatus. 4,640,633, 2-3-87, Cl. 400-124.000.
- Hebert, Francis A., to Soloco, Inc. Method and apparatus for remote release of hammer and follow block chain connection. 4,653,595, 3-31-87, Cl. 173-128.000.
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  - Bronte, Joseph J.; Hebert, Roland C.; and Khoury, Henri A., 4,659,220, Cl. 356-237.000.
- Hebrank, John H., to Embrex Inc. High speed automated injection system for avian embryos. 4,681,063, 7-21-87, Cl. 119-1.000.
- Hebrard, Denis: *See—*
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- Hebrock, Steve: *See—*
  - Reichel, Kenneth R., and Hebrock, Steve, 4,691,349, Cl. 379-391.000.
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- Hebron, Lewis L.; and Rampley, Neal, to Heath Manufacturing Company. Combination scoop and funnel utensil. 4,646,795, 3-3-87, Cl. 141-98.000.
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  - Hurwitz, Charles; Rosano, Carmen L.; Parhami, Nourollah; and Hechemy, Karim, 4,645,748, Cl. 436-509.000.
- Hechenberger, Dieter A.: *See—*
  - Gollub, Hans J.; Hechenberger, Dieter A.; and Moermann, Renate, 4,716,189, Cl. 524-284.000.
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  - Gollinger, Franz X.; and Hechler, Hatto, 4,646,639, Cl. 101-415.100.
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- Hecht, David L., to Xerox Corporation. Interpixel null suppression for optical image bars. 4,673,953, 6-16-87, Cl. 346-108.000.
- Hecht, Gunther. Apparatus for filling flexible bulk material containers. 4,688,371, 8-25-87, Cl. 53-502.000.
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  - Glas, Hans J.; Hecht, Hans; Muller, Klaus; Spitzenberger, Kurt; and Stecher, Gunther, 4,711,130, Cl. 73-708.000.
- Hecht, Martin A., to RCA Corporation. Redundancy system and switching network. 4,644,301, 2-17-87, Cl. 333-101.000.
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- Hechtman, Charles D., to American Telephone and Telegraph Company. Method and apparatus for driving electrical circuits. 4,704,550, 11-3-87, Cl. 307-571.000.
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- Heck, Joaquim L., Jr.: *See—*
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- Heck, Joseph P., to Motorola, Inc. Dual conversion FM receiver using phase locked direct conversion IF. 4,653,117, 3-24-87, Cl. 455-209.000.
- Heck, Joseph P.: *See—*
  - Kurtzman, Gary; Heck, Joseph P.; Hansen, Kenneth A.; Enderby, Ralph; and Vidugiris, Bronis, 4,714,899, Cl. 331-1.00A.
- Heck, Kevin M.: *See—*
  - Evans, Joseph T., Jr.; Munechika, Stacy M.; Norris, Michael C.; Hren, Alisa M.; Heck, Kevin M.; and Zulka, Suzanne M., 4,654,586, Cl. 324-83.00D.
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- Heck, Samuel C., to Sani-Fresh International, Inc. Safety lock mechanism for cleaning wand. 4,678,105, 7-7-87, Cl. 222-153.000.
- Heck, Samuel C., to Sani-Fresh International, Inc. Valve apparatus for liquid dispensers. 4,705,195, 11-10-87, Cl. 222-207.000.
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  - Bokmiller, David J.; and Heck, Samuel C., 4,640,638, Cl. 401-145.000.
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- Heckel, Todd A., to Megatek Corporation. Computer graphics system for real-time calculation and display of the perspective view of three-dimensional scenes. 4,697,178, 9-29-87, Cl. 340-729.000.
- Heckenbach, Theo: *See—*
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- Heckenberg, Allan L.: *See—*
  - Jones, William R.; Heckenberg, Allan L.; and Jandik, Petr, 4,699,718, Cl. 210-659.000.
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- Hecker, Mark B., to Data General Corporation. Input/output device controller for a data processing system. 4,709,329, 11-24-87, Cl. 364-200.000.
- Hecker, Raymond L., to American Hospital Supply Corporation. Fluid dispensing. 4,662,400, 5-5-87, Cl. 137-625.180.
- Hecker, Rolf: *See—*
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- Heckler, Jay W., to Upjohn Company, The. Treatment of Type II Herpes virus with ibuprofen. 4,701,470, 10-20-87, Cl. 514-570.000.
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  - Beckmann, Rudi, 4,674,392, Cl. 89-33.040.
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  - Brandl, Rudolf; and Matt, Heinz, 4,681,019, Cl. 89-33.040.
  - Rommel, Emil, 4,671,161, Cl. 89-1.400.
  - Weldle, Helmut, 4,635,530, Cl. 89-159.000.
- Heckman, Glenard W., to Little Giant Crane and Shovel, Inc. Combination rail and highway vehicle. 4,708,066, 11-24-87, Cl. 105-215.200.
- Heckmann, Richard A.: *See—*
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- Heckmann, Siegfried, to U.S. Philips Corporation. Method of and device for measuring the attenuation in optical waveguides. 4,673,291, 6-16-87, Cl. 356-73.100.
- Heckmann, Wolfgang; and Epper, Wolfgang, to Klockner-Humboldt-Deutz Aktiengesellschaft. Vibrating screen centrifuge. 4,715,956, 12-29-87, Cl. 210-363.000.
- Hecopharma B.V.: *See—*
  - Van Aken, Jan, 4,707,847, Cl. 378-170.000.
- Hecquet, Raoul: *See—*
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Hed, A. Zeev: *See—*
  Leisman, Gerald; and Hed, A. Zeev, 4,686,983, Cl. 128-325.000.
Hedaya, Eddie: *See—*
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Hedden, Richard L.: *See—*
  Bagby, John P.; and Hedden, Richard L., 4,695,139, Cl. 350-620.000.
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Heden, Carl-Goran. Climate control in building structures. 4,660,321, 4-28-87, Cl. 47-17.000.
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Hedge, Roger W., to British-American Tobacco Company Limited. Treatment of tobacco. 4,693,264, 9-15-87, Cl. 131-296.000.
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  Brown, Ian C.; Hedge, Roger W.; and Molyneux, David J., 4,696,313, Cl. 131-291.000.
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Hedman, Robert L., to International Business Machines Corporation. Differential summing amplifier for inputs having large common mode signals. 4,698,599, 10-6-87, Cl. 330-252.000.
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  Mottus, Edward H.; Hedrick, Ross M.; and Silverman, Bernard, 4,672,085, Cl. 524-718.000.
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Hedrick, Steven E.; and Gates, Alan H. Reusable grease filte 4,690,701, 9-1-87, Cl. 55-436.000.
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  Field, Anthony J.; Heerah, Atma; and Mackereth, Thoma 4,707,742, Cl. 358-183.000.
Heerdegen, Harald: *See—*
  Gardziella, Arno; Kwasniok, Alois; Heerdegen, Harald; and cha, Gerhard, 4,634,723, Cl. 523-144.000.
Heerdt, Lutz-Peter: *See—*
  Beyer, Rudolf; Heerdt, Lutz-Peter; and Schemel, R 4,644,700, Cl. 51-237.00T.
  Beyer, Rudolf; Heerdt, Lutz-Peter; and Schemel, R 4,675,976, Cl. 29-568.000.
  Beyer, Rudolf; Heerdt, Lutz-Peter; and Schemel, R 4,685,251, Cl. 51-166.00T.
Heerema Engineering Service BV: *See—*
  Meek, Jan; and Willemse, Kees, 4,687,380, Cl. 405-204.000.
  Quint, Robert A. W., 4,675,931, Cl. 14-71.100.
Heeren, Evert; and Gotthelf, Hans, to Hoesch Werke A.G. Ap for processing refuse to produce steel-making scrap. 4,662,570 Cl. 241-79.100.
Heeres, Stanley D.: *See—*
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Heeringa, Auke; Juffermans, Johannes P. H.; and Kaster, Bart, N.V. Thixotropic coating composition, process for coatin strate with such coating composition and the coated subst obtained. 4,677,028, 6-30-87, Cl. 428-422.800.
Heesch, Max O., to ITT Corporation. Single-spring clutch me 4,657,125, 4-14-87, Cl. 192-41.00S.
Heesch, Max O.; and Baker, James T., to ITT Corporation. A headrest. 4,657,304, 4-14-87, Cl. 297-391.000.

Heesch, Max O.; and Russo, Vincent, to ITT Corporation. Retractable console for an automotive vehicle seat. 4,685,729, 8-11-87, Cl. 297-193.000.

Heesch, Max O., to ITT Corporation. Infinite manual seat back recliner. 4,696,515, 9-29-87, Cl. 297-374.000.

Heesch, Max O.: *See—*
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Heesom, Neil C.: *See—*
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Heess, Gerhard; and van Zanten, Anton, to Robert Bosch GmbH. Brake pressure booster in vehicle brake systems. 4,709,969, 12-1-87, Cl. 303-114.000.

Heess, Gerhard; Karnopp, Dean; and van Zanten, Anton, to Robert Bosch GmbH. Pressure modulator for anti-skid brake systems. 4,714,300, 12-22-87, Cl. 303-115.000.

Heess, Gerhard: *See—*
  van Zanten, Anton; Heess, Gerhard; and Geering, Hans P., 4,679,866, Cl. 303-104.000.
  van Zanten, Anton; and Heess, Gerhard, 4,715,662, Cl. 303-109.000.

Hefel, Jurg W.: *See—*
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Hefele, Josef, to Kuener Textilwerke GmbH. Top cloth for articles of clothing as well as a manufacturing process and transfer unit for it. 4,655,868, 4-7-87, Cl. 156-238.000.

Hefendehl, Heinz: *See—*
  Hartmann, Franz-Josef; and Hefendehl, Heinz, 4,640,115, Cl. 72-98.000.

Heffern, Edward W.: *See—*
  Taggart, Davis L.; and Heffern, Edward W., 4,690,217, Cl. 166-274.000.

Heffernan, Edward J.; and Tomlinson, Ronald S., to Heil-Quaker Corporation. Control for heat pipe central furnace. 4,702,225, 10-27-87, Cl. 126-116.00A.

Heffner, Robert E.: *See—*
  LaBarge, Robert L.; and Heffner, Robert E. 4,648,528, Cl. 220-240.000.
  LaBarge, Robert L.; and Heffner, Robert E., 4,685,849, Cl. 413-22.000.

Heffner, Thomas G.: *See—*
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Hefner, Boby R., to Hefner Plastics, Inc. Hummingbird feeder. 4,691,665, 9-8-87, Cl. 119-77.000.

Hefner, Charles C.: *See—*
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Hefner, Heinz-Achim: *See—*
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Hefner, Jerry N.: *See—*
  Walsh, Michael J.; Anders, John B.; and Hefner, Jerry N., 4,706,910, Cl. 244-130.000.

Hefner Plastics, Inc.: *See—*
  Hefner, Boby R., 4,691,665, Cl. 119-77.000.

Hefner, Robert E.: *See—*
  Barton, James C.; Hefner, Robert E.; Reid, Paul A.; and Sable, Frank R., 4,694,928, Cl. 180-268.000.

Hefner, Robert E., Jr.; and White, Mary N., to Dow Chemical Company, The. Imide functional polyphenols; thermosettable compositions containing same and cured products therefrom. 4,636,542, 1-13-87, Cl. 523-466.000.

Hefner, Robert E., Jr.; and Hunter, Douglas L., to Dow Chemical Company, The. Polyimido-ester compounds and thermoset resin compositions containing same. 4,640,957, 2-3-87, Cl. 525-44.000.

Hefner, Robert E., Jr.; and White, Mary N., to Dow Chemical Company, The. Imide functional polyphenols; thermosettable compositions containing same and cured products therefrom. 4,649,187, 3-10-87, Cl. 528-117.000.

Hefner, Robert E., Jr.; and White, Mary N., to Dow Chemical Company, The. Poly(sulfide carbonate) composition and method for their preparation. 4,649,190, 3-10-87, Cl. 528-370.000.

Hefner, Robert E., Jr., to Dow Chemical Company, The. Vinyl esters of polyepoxides of polyphenol cyanate mixture and polymaleimide co-oligomers. 4,661,553, 4-28-87, Cl. 524-418.000.

Hefner, Robert E., Jr., to Dow Chemical Company, The. Co-oligomerization product of a mixed cyanate and a polymaleimide and epoxy resins thereof. 4,663,398, 5-5-87, Cl. 525-419.000.

Hefner, Robert E., Jr., to Dow Chemical Company, The. Reaction products of sulfur dioxide and epoxy-containing materials. 4,668,745, 5-26-87, Cl. 525-531.000.

Hefner, Robert E., Jr., to Dow Chemical Company, The. Cyanate functional maleimide and polyamine copolymer. 4,680,378, 7-14-87, Cl. 528-322.000.

Hefner, Robert E., Jr., to Dow Chemical Company, The. Cyanate functional maleimide thermosetting composition. 4,683,276, 7-28-87, Cl. 526-262.000.

Hefner, Robert E., Jr., to Dow Chemical Company, The. Polysulfide modified epoxy resins. 4,692,500, 9-8-87, Cl. 525-529.000.

Hefner, Robert E., Jr.; and White, Mary N., to Dow Chemical Company, The. Polyurethanes containing triazine or both triazine and oxazoline, triazine and imino carbamate or triazine and other N-heterocyclic groups. 4,699,933, 10-13-87, Cl. 521-166.000.

Hefner, Robert E., Jr., to Dow Chemical Company, The. Fatty esters of alkanolamine hydroxyalkylates as oxidized coal conditioner in froth flotation process. 4,701,257, 10-20-87, Cl. 209-166.000.

Hefner, Robert E., Jr., to Dow Chemical Company, The. Vinyl ester of polyepoxide of polyphenol cyanate mixture and polymaleimide co-oligomer. 4,707,533, 11-17-87, Cl. 528-96.000.

Hefti, Walter: *See—*
  Fretz, Walter; and Hefti, Walter, 4,695,000, Cl. 242-18.0DD.
  Mondini, Giancarlo; Hefti, Walter; and Kaufmann, Siegfried, 4,641,397, Cl. 19-258.000.

Hefty, Bela, to Chronomarine AG. Actuating apparatus in a lavatory seat covering system. 4,662,009, 5-5-87, Cl. 4-247.000.

Hegarty, John: *See—*
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Hegasy, Ahmed; and Winter, Manfred, to Bayer Aktiengesellschaft. Gelatin containing β-carotene. 4,693,892, 9-15-87, Cl. 424-456.000.

Hegedus, Bela: *See—*
  Ezer, Elemer; Harsanyi, Kalman; Vikar nee Petho , Hajnalka; Matuz, Judit; Szporny, Laszlo ; Cholnoky, Eszter; Kuthi, Osaba; Trischler, Ferenc; Hegedus, Bela; Kapolnas nee Pap, Marta; and Kallay nee Sohonyai, Anna, 4,691,017, Cl. 546-298.000.
  Ezer, Elemer; Harsanyi, Kalman; Petho, Hajnalka V.; Matuz, Judit; Szporny, Laszlo; Cholnoky, Eszter; Kuthi, Csaba; Trischler, Ferenc; Hegedus, Bela; Kapolnas, Marta; and Kallay, Anna, 4,713,388, Cl. 514-346.000.

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  Carlson, Lee R.; Hegedus, Denes A.; Jarrett, Steven M.; Miller, Michael F.; Riley, Martin E.; and Wright, David L., 4,683,575, Cl. 372-59.000.
  Carlson, Lee R.; Hegedus, Denes A.; Jarrett, Steven M.; Miller, Michael F.; Riley, Martin E.; and Wright, David L., 4,685,109, Cl. 372-61.000.

Hegedus, Laszlo ; and Horvath, Zoltan. Training apparatus for kicking a football. 4,641,834, 2-10-87, Cl. 272-76.000.

Hegedus, Leslie J.; and Bentall, Simon W., to Adil, Mehmet Nazim. Dispenser for bird food. 4,706,851, 11-17-87, Cl. 222-106.000.

Hegedus, Louis; Vayenas, Costas G.; and Michaels, James N., to W. R. Grace & Co.; and Massachusetts Institute of Technology. Electrocatalytic energy conversion and chemicals production. 4,643,806, 2-17-87, Cl. 204-59.00R.

Hegel, James D.; and Johnson, Davin W., to Mattel, Inc. Latex dip tooling and method for forming same. 4,637,907, 1-20-87, Cl. 264-45.700.

Hegel, Ramon F., to Minnesota Mining and Manufacturing Company. Ultra-violet light curable compositions for abrasion resistant articles. 4,650,845, 3-17-87, Cl. 526-261.000.

Hegel, Ramon F., to Minnesota Mining and Manufacturing Company. Radiation curable phosphorate ester compounds. 4,663,184, 5-5-87, Cl. 427-44.000.

Hegel, Ramon F.: *See—*
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Hegemann, Gunther; and Miedeck, Karin, to BASF Farben & Fasern AG. Unsaturated homo- and/or copolymerizable polyesters. 4,691,002, 9-1-87, Cl. 528-289.000.

Hegemann, Kenneth J. Portable reel for flexible conduits. 4,660,782, 4-28-87, Cl. 242-86.000.

Hegemann, Manfred, to Johnson & Johnson Products, Inc. Valve for incontinent patients. 4,634,421, 1-6-87, Cl. 604-34.000.

Hegg, Jeffrey W., to Honeywell Inc. Float stabilized constant current source. 4,639,658, 1-27-87, Cl. 323-204.000.

Heggart, Ronald G.; McClintock, Willard K.; and Engstrom, Randy J., to Union Carbide Corporation. Furnace cooling system and method. 4,715,042, 12-22-87, Cl. 373-74.000.

Heggenstaller, Anton; and Spies, Xaver, to Heggenstaller, Anton. Process for the extrusion of composite structural members. 4,645,631, 2-24-87, Cl. 264-69.000.

Heggenstaller, Anton. Process for compression molding of sections with a constant cross-section consisting of vegetable particles. 4,649,006, 3-10-87, Cl. 264-120.000.

Heggenstaller, Anton. Device for compression molding of sections with a constant cross-section consisting of vegetable particles. 4,705,472, 11-10-87, Cl. 425-261.000.

Heggie, William: *See—*
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Heggie, William S. Engine control systems. 4,679,396, 7-14-87, Cl. 60-414.000.

Hegland, Philip; and Chase, Lee, to Measurex Corporation. Basis weight gauge standardizing method and system. 4,692,616, 9-8-87, Cl. 250-252.100.

Hegner, Gunter: *See—*
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  Forberg, Horst; Hegner, Gunter; Achtnig, Peter; and Delakowitz, Bernd, 4,634,209, Cl. 339-147.00R.

Hegner, Gunther: *See—*
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Hegranes, Barbara A.: *See—*
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  Fisch, Michael H.; Hegranes, Barbara A.; and Seubert, George A., Jr., 4,707,509, Cl. 524-147.000.

Hegyi, Dennis J. Diode thermometer. 4,636,092, 1-13-87, Cl. 374-178.000.

Hegyi, James A. Light emitting roller skate wheels. 4,648,610, 3-10-87, Cl. 280-11.190.

Hehl, Karl. Injection molding machine with self-connecting ejection device. 4,645,446, 2-24-87, Cl. 425-350.000.
Hehl, Karl. Roller support for injection unit of injection molding machine. 4,668,178, 5-26-87, Cl. 425-589.000.
Hehl, Karl. Cooling and filtering unit for hydraulic drive fluid. 4,669,533, 6-2-87, Cl. 165-47.000.
Hehl, Karl. Latching device for injection molding dies. 4,671,764, 6-9-87, Cl. 425-595.000.
Hehl, Karl. Vented cover assembly with filter insert for fluid reservoir. 4,678,572, 7-7-87, Cl. 210-232.000.
Hehl, Karl. Injection molding machine. 4,680,002, 7-14-87, Cl. 425-186.000.
Hehl, Karl. Linear potentiometer for measuring travel. 4,680,570, 7-14-87, Cl. 338-176.000.
Hehl, Karl. Pipe coupling. 4,690,436, 9-1-87, Cl. 285-321.000.
Hehl, Karl. Horizontal mold closing unit for an injection molding machine. 4,698,007, 10-6-87, Cl. 425-190.000.
Hehl, Karl. Coupling device for an exchangeable working unit in an injection molding machine. 4,704,078, 11-3-87, Cl. 425-185.000.
Hehl, Karl. Injection molding unit. 4,708,622, 11-24-87, Cl. 425-185.000.
Hehl, Karl. Injection unit for injection molding machine. 4,708,631, 11-24-87, Cl. 425-542.000.
Hehl, Karl. Injection mold changing unit. 4,710,121, 12-1-87, Cl. 425-190.000.
Hehl, Karl. Hydraulic control system for injection unit of injection molding machine. 4,712,991, 12-15-87, Cl. 425-145.000.
Hehlen, Robert; Hareng, Michel; Le Berre, Serge; and Mourey, Bruno, to Thomson-CSF. Process for controlling a matrix access display device. 4,673,256, 6-16-87, Cl. 350-350.00S.
Hehn, Bruce A.; and McInnes, Donald E., to Alpha Enterprises, Inc. Booklet pocket for video cassette storage containers. 4,643,301, 2-17-87, Cl. 206-232.000.
Hehn, Bruce A., and Sankey, James K., to Alpha Enterprises, Inc. Compact disc cleaner. 4,709,437, 12-1-87, Cl. 15-97.00R.
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  Buschmann, Falk; Foerster, Karl-Heinz; Eichler, Volker; Heiber, Hartmut; and Dittrich, Volkmar, 4,661,918, Cl. 364-569.000.
  Buschmann, Falk; Foerster, Karl-Heinz; Eichler, Volker; Heiber, Hartmut; and Dittrich, Volker, 4,661,919, Cl. 364-569.000.
  Buschmann, Falk; Foerster, Karl-Heinz; Eichler, Volker; Heiber, Hartmut; and Dittrich, Volmar, 4,665,498, Cl. 364-569.000.
  Buschmann, Falk; Foerster, Karl-Heinz; Eichler, Volker; Heiber, Hartmut; and Dittrich, Volkmar, 4,669,050, Cl. 364-569.000.
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Heide, Helmut; Etzkorn, Heinz-Werner; Poeschel, Eva; and Steininger, Helmut, to Battelle-Institut e.V. Method of producing implantable bone replacement materials. 4,702,930, 10-27-87, Cl. 427-2.000.
Heide, Jorgen, to Richards Medical Company. Touch sensitive hearing aid volume control circuit. 4,679,240, 7-7-87, Cl. 381-68.600.
Heide, Ulf B., to Technical Manufacturing Corporation. Honeycomb tabletop. 4,645,171, 2-24-87, Cl. 248-637.000.
Heidel, David W.: *See—*
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Heidel, Jeffrey C.: *See—*
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Heidel, Peter; Kaulich, Franz; and Artus, Heinz, to Hoechst Aktiengesellschaft. Nonwoven with fibrous coating. 4,657,801, 4-14-87, Cl. 428-137.000.
Heidelberg, Gotz; Grundl, Andreas; and Rosner, Peter. Electromagnetic linear drive. 4,686,435, 8-11-87, Cl. 318-135.000.
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  Jeschke, Willi; and Becker, Willi, 4,667,952, Cl. 271-277.000.
  Jeschke, Willi, 4,669,715, Cl. 271-65.000.
  Jeschke, Willi, 4,679,502, Cl. 101-415.100.
  Jeschke, Willi; Kipphan, Helmut; and Loffler, Gerhard, 4,681,455, Cl. 356-445.000.
  Jeschke, Willi, 4,699,055, Cl. 101-350.000.
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  Jeschke, Willi, 4,712,476, Cl. 101-415.100.
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  Kipphan, Helmut; and Loffler, Gerhard, 4,637,728, Cl. 356-402.00
  Kipphan, Helmut; Rodi, Anton; and Blaser, Peter, 4,668,090, Cl. 356-244.000.
  Maul, Bernhard; Zobl, Gunter; and Kusch, Hans-Jurgen, 4,690,
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  Pollich, Gerhard, 4,635,925, Cl. 271-235.000.
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  Schollenberger, Heinz, 4,688,483, Cl. 101-415.100.
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  Wesch, Ludwig, 4,657,623, Cl. 156-429.000.
Heideman, Robert J., to Enertrols, Inc. Compact shock absorbe
4,690,255, 9-1-87, Cl. 188-287.000.
Heideman, Robert J.; and Mitera, Richard T., to Enertrols, Inc. Shock absorber with stop collar. 4,694,939, 9-22-87, Cl. 188-287.000.
Heideman, Robert J., to Enertrols, Inc. Shock absorber with hole-or-groove configuration and with adjusting device. 4,702,355, 10-27-8
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Heideman, Torsten; Levander, Kai; and Salmi, Pekka, to Oy Wartsi
Ab. Bottom construction for a ship. 4,702,187, 10-27-87, C
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Heidemann, Gerhard; and Witte, Johannes, to Eastman Christensen C
Mechanical jarring devices for use in drilling. 4,694,917, 9-22-87, C
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Heidemann, Wolfgang, to Mannesmann AG. Brick-lining a metallurgical vessel. 4,708,328, 11-24-87, Cl. 266-281.000.
Heidenreich, David C., to Power Transmission Technology, Inc. Torque limiting clutch. 4,645,472, 2-24-87, Cl. 464-48.000.
Heidenreich, David C.; and Nichols, Keith A., to Power Transmission Technology, Inc. Multiple disc torque limiting clutch. 4,661,08
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Heidenreich, Holger; and Wolfram, Gerhard, to Bayer Aktiengesellschaft. 3-thienylazo dyes with a gamma-acid coupler. 4,711,5
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Heidenreich, Peter; Heinen, Karl-Heinz; Muller, Wolfgang; and Vei
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  Austel, Volkhard; Heider, Joachim; Hauel, Norbert; Reiffen, Manfred; van Meel, Jacobus C. A.; and Diederen, Willi, 4,670,438, C
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  Hauel, Norbert; Austel, Volkhard; Heider, Joachim; Reiffen, Manfred; and Diederen, Willi, 4,696,931, Cl. 514-261.000.
  Hauel, Norbert; Austel, Volkhard; Heider, Joachim; Reiffen, Manfred; Diederen, Willi; and Haarman, Walter, 4,699,908, C
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Krohn, James V.; Heidner, Melvin J.; Pittman, Edward F.; and Roberts, Landon S., 4,704,265, Cl. 423-497.000.

Heidorn, Richard H.: *See—*

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Sheldon, Roger A.; and Heijmen, Hendricus J., 4,656,309, Cl. 560-174.000.

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Johnson, Gary, 4,690,607, Cl. 414-517.000.

Smith, Fred T.; and Smith, Fred P., 4,708,570, Cl. 414-408.000.

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Bigham, Davis L., 4,682,579, Cl. 126-110.00R.

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Obosu, Charles B., 4,691,768, Cl. 165-151.000.

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Heile, Bernard J.; and Kios, Terry J., to Ecolab Inc. Method for forming solid detergent compositions. 4,680,134, 7-14-87, Cl. 252-160.000.

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Heiler, Jacqueline K. Mother's nursing aid: breast-feeding sling. 4,651,349, 3-24-87, Cl. 2-104.000.

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Krepski, Larry R.; Smith, Howell K., II; Rasmussen, Jerald K.; and Heilmann, Steven M., 4,694,103, Cl. 562-450.000.

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Brunner, Rudolf, 4,711,155, Cl. 91-446.000.

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Dickert, Joseph J., Jr.; and Heilweil, Israel J., 4,655,942, Cl. 252-8.500.

Heim, David E., to International Business Machines. Three pole single element magnetic read/write head. 4,644,432, 2-17-87, Cl. 360-123.000.

Heim, Edgar; and Voll, Horst, to FAG Kugelfischer Georg Schafer (KGaA). Separator for securing magnets. 4,665,333, 5-12-87, Cl. 310-154.000.

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Woerner, Frank P.; Neumann, Peter; Mahnke, Harald; Lamprecht, Josef; Horn, Dieter; Turznik, Gerhard; Kraus, Friedrich; Kaeppel, Hanshelmut; and Heim, Eduard, 4,666,948, Cl. 521-105.000.

Heiman, Gary L., to Standard Textile Company, Inc. Woven sheeting material and method of making same. 4,670,326, 6-2-87, Cl. 428-225.000.

Heiman, Melvin. Adjustably weighted racquet. 4,685,675, 8-11-87, Cl. 273-73.00C.

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Duenisch, Ingo; and Lausch, Michael, 4,672,268, Cl. 313-633.000.

Dunisch, Ingo, 4,690,652, Cl. 445-28.000.

Geus, Georg, 4,673,884, Cl. 324-407.000.
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Herwig, Thomas; and Geus, Georg, 4,641,330, Cl. 378-101.000.
Heimann, Jochen R.: *See—*
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Heimbach, Paul A., to Home Box Office, Inc. Audio scrambler. 4,638,357, 1-20-87, Cl. 358-121.000.
Heimberger, Rudolf, to Richard Wolf GmbH. Medical forceps. 4,643,190, 2-17-87, Cl. 128-321.000.
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Heimbigner, Thomas; and Tsui, Gary, to CBC Industries, Inc. Wire lock liner. 4,708,540, 11-24-87, Cl. 408-72.00B.
Heimbigner, Thomas: *See—*
Tsui, Gary; and Heimbigner, Thomas, 4,641,986, Cl. 403-164.000.
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Heimbrodt, Klaus- J.; Motting, Gotz; and Hack, Albert, to Daimler-Benz Aktiengesellschaft. Radiator grill for motor vehicles. 4,706,738, 11-17-87, Cl. 165-98.000.
Heimbuch, Alvin H.: *See—*
Parker, John A.; Heimbuch, Alvin H.; Hsu, Ming-Ta S.; and Chen, Timothy S., 4,647,615, Cl. 524-548.000.
Heimbuch, William G. Differential data line selector. 4,669,096, 5-26-87, Cl. 375-100.000.
Heimburger, Norbert: *See—*
Fuhge, Peter; Heimburger, Norbert; Stohr, Hans-Arnold; and Burk, Wolfgang, 4,650,678, Cl. 424-101.000.
Schwinn, Horst; Heimburger, Norbert; Kumpe, Gerhard; and Herchenhan, Bernd, 4,670,544, Cl. 530-392.000.
Heimburger, Wolfgang: *See—*
Gardenier, Karl-Josef; and Heimburger, Wolfgang, 4,645,537, Cl 106-243.000.
Heimel, Helmut; Randow, Albert; Ross, Rudi; and Wiegleb, Gerhard, to Leybold-Heraeus GmbH. Cell for a gas analyzer. 4,674,884, 6-23-87, Cl. 356-440.000.
Heimer, Edgar P.: *See—*
Felix, Arthur M.; Heimer, Edgar P.; and Mowles, Thomas F., 4,649,131, Cl. 514-12.000.
Heimer, Malcolm L., to Cordis Corporation. Method and apparatus for calibrating internal measurements of an implanted cardiac pacer. 4,712,179, 12-8-87, Cl. 364-417.000.
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Heimes, Horst P., to Forschungsgesellschaft Fuer Biomedizinische Technik E.V. Redundant piston pump for the operation of single or multiple chambered pneumatic blood pumps. 4,687,424, 8-18-87, Cl. 417-384.000.
Heimgartner, Dieter: *See—*
Amstutz, Hermann; Heimgartner, Dieter; Kaufmann, Meinolph; and Scheffer, Terry J., 4,634,229, Cl. 350-346.000.
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Heimsoth, Harald; and Herbst, Thomas, to Dyckerhoff & Widmann Aktiengesellschaft. Method of and apparatus for installing an anchor member below water level through a wall into a soil formation. 4,711,604, 12-8-87, Cl. 405-260.000.
Heimsyphon GmbH: *See—*
Klarenbach, Hans W.; and Schmitz, Herbert, 4,669,639, Cl. 222-396.000.
Hein, Arthur G. Electrostatic precipitator. 4,695,297, 9-22-87, Cl. 55-112.000.
Hein, Birgit G., executor: *See—*
Myers, William N.; Hein, Leopold A., deceased; and Hein, Birgit G., executor, 4,655,482, Cl. 285-81.000.
Hein, Klaus R. G.: *See—*
Gebhard, Georg R. U.; Hein, Klaus R. G.; and Glaser, Wolfgang, 4,710,365, Cl. 423-244.000.
Hein, Lehmann AG: *See—*
Hoppe, Kurt, 4,636,304, Cl. 209-287.000.
Schmidt, Gerhard; Neukam, Christian; and Schmidt, Heinrich, 4,708,795, Cl. 210-304.000.
Trojan, Gunter, 4,645,540, Cl. 127-19.000.
Hein, Leopold A., deceased: *See—*
Myers, William N.; Hein, Leopold A., deceased; and Hein, Birgit G., executor, 4,655,482, Cl. 285-81.000.
Hein, Paul R.; Miller, Henry C.; and Brewster, W. Darlene, to W. R. Grace & Co. Photopolymer for use as a solder mask. 4,666,821, 5-19-87, Cl. 430-311.000.
Hein, Richard W.; and Kelso, William C., to Mooney Chemicals, Inc. Process for preserving wood. 4,649,065, 3-10-87, Cl. 427-370.000.
Hein, Ronald H.: *See—*
Shearer, Michael A.; Sasagawa, Pamela K.; and Hein, Ronald H., 4,656,254, Cl. 530-393.000.
Hein, Theo, to Mannesmann Rexroth GmbH. Drive system comprising an adjustable hydrostatic machine. 4,689,956, 9-1-87, Cl. 60-449.000.
Hein-Werner Corporation: *See—*
Hamilton, Harold F.; and Donahue, Robert L., 4,663,85, Cl 33-288.000.
Hamilton, Harold F.; and Donahue, Robert L., 4,691,44, Cl 33-288.000.
Liegel, Reinald D., 4,715,573, Cl. 248-129.000.
Hein-Werner, Inc.: *See—*
Liegel, Reinald D.; and Ballard, James G., 4,715,789, Cl 417-253.000.
Heina, Karl-Fritz; Hornung, Adolf; Worner, Kurt; and Wolf, Klaus, to Maschinenbau Oppenweiler Binder GmbH & Co. Device to pick up sheets from a stack and transport the sheets away from the stack. 4,643,412, 2-17-87, Cl. 271-94.000.
Heinbuchner, Johann, to Doubrava KG. Method for mounting skeletons of superstructures and jig for implementing such method. 4,633,641, 1-6-87, Cl. 52-747.000.
Heindke, Armin; and Radtke, Joachim, to Kienzle Apparate GmbH. Storage compartment for documents. 4,655,446, 4-7-87, Cl 271-314.000.
Heindke, Armin: *See—*
Dyma, Horst; and Heindke, Armin, 4,692,041, Cl. 400-82.000.
Heindl, Alfons: *See—*
Schulte, Rudolf R.; East, Gary P.; Bryant, Marga M.; and Heindl, Alfons, 4,636,194, Cl. 604-9.000.
Schulte, Rudolf R.; East, Gary P.; and Heindl, Alfons, 4,681,56, Cl. 604-9.000.
Heine, Christian; and Wuest, Reinhold, to Henkel Kommanditgesellschaft auf Aktien. Parting oils for baked goods and method of preparation. 4,654,220, 3-31-87, Cl. 426-609.000.
Heine, Franz: *See—*
von Bernuth, Hans-Dietrich; and Heine, Franz, 4,645,030, Cl 180-333.000.
Heine, Gerold: *See—*
Hepp, Wolfgang; Heine, Gerold; Wess, Othmar; and Marlinghaus, Ernst, 4,662,375, Cl. 128-328.000.
Heine, Hans-Georg: *See—*
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Heine, Heinrich: *See—*
Franz, Gerhard; Schonfelder, Lothar; and Heine, Heinrich, 4,676,838, Cl. 106-304.000.
Kerimis, Dimitrios; Muller, Hanns P.; Uerdingen, Walter; and Heine, Heinrich, 4,689,376, Cl. 525-504.000.
Mues, Peter; Buysch, Hans-Josef; Brassat, Bert; and Heine, Heinrich, 4,694,065, Cl. 528-371.000.
Wahle, Bernd; Freitag, Dieter; Uerdingen, Walter; Heine, Heinrich; and Blazejak, Manfred, 4,690,998, Cl. 528-96.000.
Heine, Helmut A.; and Theissig, Werner, to Proper Manufacturing Co. Inc.; and Heine Optotechnik GmbH, a part interest. Headband with cushion. 4,675,919, 6-30-87, Cl. 2-410.000.
Heine, Helmut A.: *See—*
Schmidt, Otto H.; Heine, Helmut A.; and Rosenbusch, Helmut, 4,681,413, Cl. 351-205.000.
Schmidt, Otto H.; Heine, Helmut A.; and Rosenbusch, Helmut, 4,684,227, Cl. 351-205.000.
Heine, Murray A.; and Polan, Ned W., to Olin Corporation. Corrosion resistant modified Cu-Zn alloy for heat exchanger tubes. 4,674,566, 6-23-87, Cl. 165-134.100.
Heine Optotechnik GmbH: *See—*
Heine, Helmut A.; and Theissig, Werner, 4,675,919, Cl. 2-410.000.
Heine Optotecnik GmbH & Co. KG: *See—*
Schmidt, Otto H.; Heine, Helmut A.; and Rosenbusch, Helmut, 4,681,413, Cl. 351-205.000.
Schmidt, Otto H.; Heine, Helmut A.; and Rosenbusch, Helmut, 4,684,227, Cl. 351-205.000.
Heine, Otto R.; and Riede, Peter M., to R&H Technology, Inc. Wear resistant pipe bend for slurry transport. 4,641,864, 2-10-87, Cl 285-179.000.
Heine, Otto R., to R&H Technology, Inc. Rotary motion linear actuator. 4,660,431, 4-28-87, Cl. 74-424.80R.
Heine, Otto R., to R&H Technology, Inc. Fatigue resistant fastener assembly. 4,661,031, 4-28-87, Cl. 411-263.000.
Heine, Otto R. Anti-friction worm gear speed reducer and needle screw. 4,665,765, 5-19-87, Cl. 74-458.000.
Heine, Werner, to George Kesel GmbH & Co. KG. Vise. 4,664,36, 5-12-87, Cl. 269-246.000.
Heine, Wilhelm: *See—*
Mohn, Jurgen; and Heine, Wilhelm, 4,698,154, Cl. 210-232.000.
Heine, William M., to Atlantic Research Corporation. Fiber spool apparatus. 4,700,607, 10-20-87, Cl. 87-57.000.
Heinecke, Rudolf A. H.; Ojha, Suresh M.; and Llewellyn, Ian P., to Standard Telephones and Cables Public Limited Company. Surface treatment of plastics material. 4,684,535, 8-4-87, Cl. 427-38.000.
Heinemann Electric Company: *See—*
Guinan, Thomas, 4,665,284, Cl. 200-50.00C.
Strobel, Albert, 4,644,114, Cl. 200-50.00C.

Heinemann Electric (South Africa) Limited: *See—*

Baines, Alfred H. P., deceased; Campetti, Gianfranco; Baumgartl, Walter A.; and Nusse, Klaus J. R., 4,644,312, Cl. 335-236.000.

Heinemann, Henning; Kehrbach, Wolfgang; Schoen, Uwe; Buschmann, Gerd; and Kuhl, Ulrich, to Kali-Chemie Pharma GmbH. 3-aminocarbonylmethoxy-5-phenylpyrazole compounds, antiarrythmic compositions containing them, and intermediates in their preparation. 4,695,566, 9-22-87, Cl. 514-234.000.

Heinemann, Horst D., and Jost, Alfred, to Heinemann, Horst D. Roof construction. 4,691,482, 9-8-87, Cl. 52-3.000.

Heinemann, Jurgen: *See—*

Michel, Wolfgang; Paul, Heinz; Kostler, Dieter; Wilhelm, Frank; Rummel, Andreas; Seher, Gero; Henze, Wilfried; Hander, Ralf; Heinemann, Jurgen; and Ossowski, Manfred, 4,652,430, Cl. 422-142.000.

Heinemann, Otto; Nanz, Hans-Hermann; Milewski, Gunter; and Schroder, Norbert, to Krupp Polysius AG. Percussion jig. 4,663,031, 5-5-87, Cl. 209-427.000.

Heinemann, Otto; and Schmits, Heinz-Herbert, to Krupp Polysius AG. Driving apparatus. 4,681,021, 7-21-87, Cl. 91-178.000.

Heinemann, Otto: *See—*

Hahn, Franz D.; Heinemann, Otto; and Schmits, Heinz-Herbert, 4,660,805, Cl. 251-328.000.

Heinemann, Stanley O.: *See—*

Wickersheim, Kenneth A.; Sun, Mei H.; and Heinemann, Stanley O., 4,652,143, Cl. 374-161.000.

Heinemann, Stephen F.: *See—*

Patrick, James W.; Heinemann, Stephen F.; Boss, Barbara D.; and Cowan, W. Maxwell, 4,652,629, Cl. 530-326.000.

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Heinemann, Ulrich; Knops, Hans-Joachim; Steinbeck, Karl; Brandes, Wilhelm; Hanssler, Gerd; and Reinecke, Paul, to Bayer Aktiengesellschaft. N-(3-chloro-1,2,4-oxadiazol-5-yl)-ureas. 4,642,312, 2-10-87, Cl. 514-364.000.

Heinemann, Wilfried; Gabriel, Thomas; Reimann, Peter; Kunzi, Hans-Ulrich; and Guntherodt, Hans-Joachim, to Concast Standard AG. Method for producing strip-like or foil-like products. 4,650,618, 3-17-87, Cl. 264-22.000.

Heinemann, Zoltan; and Konig, Heinz, to Chemie Linz Aktiengesellschaft. Process for the enhanced oil recovery of underground mineral oil deposits. 4,640,356, 2-3-87, Cl. 166-272.000.

Heinemeyer, Friedrich: *See—*

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Heinen, Jochen; Kappeler, Franz; and Westermeier, Heinz, to Siemens Aktiengesellschaft. Laser diode array. 4,674,095, 6-16-87, Cl. 372-50.000.

Heinen, Jochen, to Siemens Aktiengesellschaft. Semiconductor laser diode with buried hetero-structure. 4,683,574, 7-28-87, Cl. 372-44.000.

Heinen, John A., to Construction Products Research Inc. Method for controlling contraction in setting cementitious systems. 4,654,084, 3-31-87, Cl. 106-87.000.

Heinen, Karl-Heinz: *See—*

Heidenreich, Peter; Heinen, Karl-Heinz; Muller, Wolfgang; and Veuhoff, Heinz, 4,679,205, Cl. 373-84.000.

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Glessner, Bertram; Pitsch, Paul; Heinen, Peter; and Peglow, Hartmut, 4,636,235, Cl. 65-3.120.

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Heinen, Walter, to Alfred H. Schutte, Firma. Multi-spindle automatic lathe. 4,700,594, 10-20-87, Cl. 82-3.000.

Heinfling, Josef: *See—*

Dorsch, Manfred; and Heinfling, Josef, 4,665,361, Cl. 324-207.000.

Heinicke, Ralph, to Research Corporation of the University of Hawaii, The. Method for eliminating grease and odors from sewage systems. 4,666,606, 5-19-87, Cl. 210-632.000.

Heiniger, Ernst. Large film image frame transport mechanism. 4,655,566, 4-7-87, Cl. 352-225.000.

Heiniger, Peter; Masek, Jaroslav; and Senn, Herbert, to BBC Brown, Boveri & Company, Limited. Valve for steam supply on double casing turbines. 4,642,025, 2-10-87, Cl. 415-139.000.

Heinisch, Richard V., and Lewin, Ian, to Ruud Lighting, Inc. Floodlight with improved reflector system. 4,709,312, 11-24-87, Cl. 362-298.000.

Heinix, Lucien J., to Alphadent. Alignment cap for mounting artificial teeth on working models. 4,642,050, 2-10-87, Cl. 433-56.000.

Heinkel Industriezentrifugen GmbH & Co.: *See—*

Gerteis, Hans, 4,702,831, Cl. 210-236.000.

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Heinle, Georg, to Siemens Aktiengeselischaft. Method for controlling the phase angle of the output current or the output voltage of a frequency converter and apparatus for carrying out the method. 4,688,163, 8-18-87, Cl. 363-96.000.

Heinlein, Werner: *See—*

Gassmann, Heiner; Beck, Siegfried; and Heinlein, Werner, 4,714,278, Cl. 285-169.000.

Heino, Harry A.: *See—*

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Heino, Heimo J.: *See—*

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Heino, Jorgen: *See—*

Cornette, Henri; and Heino, Jorgen, 4,703,872, Cl. 222-158.000.

Heinonen, Aaro. Device for cleaning up floors. 4,712,268, 12-15-87, Cl. 15-231.000.

Heinonen, Jarmo; Wisakanto, Risto; and Strom, Rolf, to Oy Tampella AB. Bearing arrangement for a feeding device for a drilling machine. 4,702,621, 10-27-87, Cl. 384-37.000.

Heinrich, Andrew L., to Caterpillar Inc. Vibration resistant linear potentiometer. 4,665,376, 5-12-87, Cl. 338-176.000.

Heinrich Baumgarten KG: *See—*

Baumgarten, Rolf, 4,680,829, Cl. 16-114.00A.

Heinrich Brinkmann Anlagenverpachtung GmbH & Co. KG: *See—*

Ludwig, Hans, 4,655,121, Cl. 98-78.000.

Heinrich C. Ulrich, Firma: *See—*

Ulrich, Heinrich; and Zielke, Klaus, 4,658,809, Cl. 128-92.0YM.

Heinrich, Charles E.: *See—*

Swenson, Paul F., Jr.; and Heinrich, Charles E., 4,681,510, Cl. 415-168.000.

Heinrich Frings GmbH & Co. KG: *See—*

Follmann, Heinrich; and Ebner, Heinrich, 4,689,153, Cl. 210-650.000.

Heinrich H. Klussendorf GmbH & Co. KG: *See—*

Kramer, Wilfried, 4,655,131, Cl. 101-236.000.

Heinrich, Hansjorg; and Kraft, Josef, to Diehl GmbH & Co. Additive sealing sleeve for a propellent charge for large-calibered ammunition fired from barreled weapons. 4,712,481, 12-15-87, Cl. 102-435.000.

Heinrich Hermann GmbH + Co.: *See—*

Fischer, Richard, 4,704,185, Cl. 156-577.000.

Heinrich-Hertz-Institut fur Nachrichtentechnik Berlin GmbH: *See—*

Boerger, Georg; and Romahn, Gotz, 4,650,929, Cl. 358-86.000.

Heinrich, Juergen; Krauth, Axel; Victor, Karl-Heinz; and Peeken, Heinz, to Hoechst CeramTec Aktiengesellscahft; and Pacific Wietz GmbH & Co. KG. Annular sliding body for a sliding seal and process for use thereof. 4,714,257, 12-22-87, Cl. 277-1.000.

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Bracht, Jeffrey L.; Heinrich, Martin W.; van Maaren, Richard D.; and Sleder, Richard L., 4,677,940, Cl. 123-2.000.

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Oelschlager, Hans H., 4,645,033, Cl. 182-6.000.

Heinrich, Peter; Knop, Klaus; and Rube, Friedbert, to M.A.N. Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Process for producing and using syngas and recovering methane enricher gas therefrom. 4,678,480, 7-7-87, Cl. 48-197.00R.

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Heinrich, Richard: *See—*

Bucher, Hans; Heinrich, Richard; Hermann, Waldemar; and Seffer, Hans-Werner, 4,650,196, Cl. 277-152.000.

Heinrich, Rudolf; and Albrecht, Konrad, to Hoechst Aktiengesellschaft. Processes for the preparation of nitrosamine-free N,N-disubstituted nitroaromatic amines and for the stabilization of these compounds against the formation of nitrosamines. 4,638,090, 1-20-87, Cl. 564-437.000.

Heinrich Schmid Maschinen-und Werkzeugbau AG: *See—*

Bernet, Alois, 4,698,992, Cl. 72-67.000.

Heinrich Schmid Maschinenund Werkzeugbau AG: *See—*

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Heinrich, Siegfried; Heitzmann, Rudolf; and Shafik, Ahmed, to Herberts Gesellschaft mit beschraenkter Haftung. Non-aqueous lacquer with high protection against stone chipping, a process for its preparation and its use. 4,647,645, 3-3-87, Cl. 528-45.000.

Heinrich, Theodore M.: *See—*

Schauder, Colin D.; and Heinrich, Theodore M., 4,697,131, Cl. 318-762.000.

Heinrich Wilhelmi GmbH & Co.: *See—*

Wilhelmi, Juergen, 4,711,593, Cl. 403-187.000.

Heinrich, William P.; and Leopoldi, Norbert, to Genentech, Inc. Height-measuring device. 4,694,581, 9-22-87, Cl. 33-169.00R.

Heinrich Wunder GmbH & Co. KG: *See—*

Zoor, Reinhold, 4,635,955, Cl. 280-614.000.

Heinricher, Gustav M.: *See—*

Illemann, Heinrich; and Heinricher, Gustav M., 4,657,226, Cl. 266-220.000.

Heinrichs, Vern: *See—*

Wilkes, Donald F., 4,713,976, Cl. 74-190.000.

Heins, Henry H.: *See—*

Hahn, Roger A.; and Heins, Henry H., 4,697,973, Cl. 414-330.000.

Heins, Jens-Peter: *See—*

Schuster, Hans K.; Heins, Jens-Peter; Gockel, Bernhard; and Schmidt, Holger, 4,672,841, Cl. 73-38.000.

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Heins, Klaus-Jurgen: *See—*

Gronau, Joachim; and Heins, Klaus-Jurgen, 4,676,532, Cl. 285-156.000.

Heinsohn, George E., to Du Pont de Nemours, E. I., and Company. Process for separating methyl isocyanate. 4,694,101, 9-15-87, Cl. 560-352.000.

Heinsohn, George E.: *See—*

Blaisdell, Charles T.; Cordes, Walter J.; Heinsohn, George E.; Kook, John F.; and Kosak, John R., 4,698,438, Cl. 558-3.000.

Heintz, Robert J. Vibration dampener. 4,678,066, 7-7-87, Cl. 188-218.00A.

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Heintzenberg, Jost: *See—*

Ogren, John A.; Heintzenberg, Jost; and Charlson, Robert J., 4,689,052, Cl. 55-17.000.

Heinz, Gerhard; Schuette, Wilhelm; and Simon, Georg N., to BASF Aktiengesellschaft. Thermoplastic polyoxymethylene molding materials having high abrasion resistance. 4,645,785, 2-24-87, Cl. 524-100.000.

Heinz, Gerhard; McKee, Graham E.; Simon, Georg N.; Kleber, Friedrich; and Knoll, Manfred, to BASF Aktiengesellschaft. Impact-resistant, thermoplastic polyester molding materials. 4,666,973, 5-19-87, Cl. 524-504.000.

Heinz, Gerhard: *See—*

Fischer, Juergen; Zeiner, Hartmut; Nissen, Dietmar; Heinz, Gerhard; and Neumann, Peter, 4,649,080, Cl. 428-419.000.

Schuette, Wilhelm; McKee, Graham Edmund; Hilt, Albrecht; Heinz, Gerhard; and Goerrissen, Heiner, 4,639,488, Cl. 524-456.000.

Seiler, Erhard; Hambrecht, Juergen; and Heinz, Gerhard, 4,672,086, Cl. 524-127.000.

Tesch, Helmut; Portugall, Michael; Stutz, Herbert; and Heinz, Gerhard, 4,665,150, Cl. 528-98.000.

Heinz, Karl-Otto: *See—*

Friebe, Karl-Heinz; Heinz, Karl-Otto; and Scholten, Werner, 4,642,030, Cl. 417-203.000.

Heinz, Michael; Lange, Joachim; Muschner, Udo; Naefe, Herbert; Rothfuss, Hans; Winkelmann, Manfred; and Winkler, Hans-Joachim, to Didier-Werke AG. Gas washing device. 4,711,432, 12-8-87, Cl. 266-220.000.

Heinz, Robert: *See—*

Sommer, Karl; Heinz, Robert; Hettche, Albert; Perner, Johannes; Schuster, Werner; and Trieselt, Wolfgang, 4,695,397, Cl. 252-182.000.

Heinz, Stoewer; and Ockels, Wubbo, to Agence Spatiale Europeenne. Method of and device for restraining the sleeping body of an astronaut in conditions of weightlessness. 4,641,386, 2-10-87, Cl. 5-413.000.

Heinz, Werner. Viscosimeter. 4,643,020, 2-17-87, Cl. 73-59.000.

Heinze, Helmut; and Wilhelm, Fritz, to Davy McKee A.G. Process for the continuous production of high-molecular polybutyleneterephthalate. 4,680,376, 7-14-87, Cl. 528-279.000.

Heinze, Horst; and Herbig, Henning, to Messerschmitt-Bolkow-Blohm GmbH. Foldable and unfoldable antenna reflector. 4,658,265, 4-14-87, Cl. 343-915.000.

Heinze, Horst: *See—*

Herbig, Henning; Heinze, Horst; Drachenberg, Franz; and Pontoppidan, Knud, 4,642,652, Cl. 343-915.000.

Heinze, Richard F., to Crompton & Knowles Corporation. Dry lake system. 4,636,261, 1-13-87, Cl. 106-289.000.

Heinze, Richard F.: *See—*

Den Boer, Patrick; Heinze, Richard F.; Meyers, Benjamin L., and Mallik, Barendra C., 4,652,313, Cl. 106-289.000.

Den Boer, Patrick; and Heinze, Richard F., 4,693,751, Cl. 106-209.000.

Heinze, Udo; and Marhoff, Paul, to Siemens Aktiengesellschaft. X-ray diagnostic system with automatic control of radiation exposure. 4,639,943, 1-27-87, Cl. 378-96.000.

Heinze, Walter O.; and Tufts, Wesley M., to Control Fluidics, Inc. Water saving toilet system. 4,672,689, 6-16-87, Cl. 4-415.000.

Heinzel, Volker; Keschtkar, Hossein-Ali; and Schub, Ingeborg, to Kernforschungszentrum Karlsruhe GmbH. Molded, boron carbide-containing, sintered articles and manufacturing method. 4,661,155, 4-28-87, Cl. 75-237.000.

Heinzelmann, Karl-Georg: *See—*

Ries, Gunther; and Heinzelmann, Karl-Georg, 4,673,881, Cl. 324-318.000.

Heinzl, Joachim; and Rosenstock, Guenter, to Siemens Aktiengesellschaft. Apparatus and method for ejecting ink droplets. 4,716,418, 12-29-87, Cl. 346-1.100.

Heinzler, Franz; and Fuhrer, Wolfgang, to Siemens Aktiengesellschaft. Circuit arrangement for monitoring a thyristor. 4,672,315, 6-9-87, Cl. 324-158.0SC.

Heinzman, Stephen W.: *See—*

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Bush, Rodney D.; Connor, Daniel S.; Heinzman, Stephen W.; and Mackey, Larry N., 4,663,071, Cl. 252-174.190.

Heiple, Kingsbury G. Tool for use in anchoring implantable prosthesis and method. 4,696,292, 9-29-87, Cl. 128-92.00V.

Heise, Arend: *See—*

Wehinger, Egbert; Knorr, Andreas; Stoepel, Kurt; and Heise, Arend, 4,675,329, Cl. 514-356.000.

Heise, Gerhard: *See—*

Maerz, Reinhard; and Heise, Gerhard, 4,670,093, Cl. 156-639.000.

Heise, Herbert: *See—*

Ferris, Donald L.; and Heise, Herbert, 4,668,115, Cl. 403-24.000.

Heise, Thomas M.: *See—*

Anthony, Bruce O., Jr.; Heise, Thomas M.; and Sheppard, Frank P., 4,707,803, Cl. 364-900.000.

Heise, Wolfgang, to Hermann Berstorff Maschinenbau GmbH. Embossing calender for thermoplastics material films. 4,655,703, 4-7-87, Cl. 425-335.000.

Heise, Wolfgang, to Hermann Berstorff Maschinenbau GmbH. Calender roller mounting arrangement. 4,699,050, 10-13-87, Cl. 100-168.000.

Heisel, Michael; Marold, Freimut; and Linde, Gerhard, to Linde Aktiengesellschaft. Integrated scrubbing of SO_2 and production of sulfur. 4,636,377, 1-13-87, Cl. 423-575.000.

Heisel, Michael: *See—*

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Heisel, Uwe: *See—*

Genschow, Henning; Heisel, Uwe; and Schuster, Joachim, 4,711,016, Cl. 29-568.000.

Heisele, Horst: *See—*

Gugel, Bernd; Niebel, Harald; Ott, Hubert; Heisele, Horst; Kitzberger, Herbert; and Seybold, Wolfgang, 4,674,179, Cl. 2 602.00R.

Heiserman, David L., to Microflex Technology, Inc. Piezoelectric polymer microgripper. 4,666,198, 5-19-87, Cl. 294-86.400.

Heisig, Rolf: *See—*

Bachler, Werner; Heisig, Rolf; Klein, Hans-Hermann; and Volker, Karl-Heinz, 4,642,995, Cl. 62-6.000.

Heising, Ferdinand; and Knickmeyer, Wilhelm, to Bergwerksverband GmbH. Method of and apparatus for the investigation of inaccessible subterranean spaces such as boreholes. 4,657,387, 4-14-87, Cl. 356-72.000.

Heisinger, Robert F., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Modular protector for telecommunications equipment. 4,710,846, 12-1-87, Cl. 361-119.000.

Heiskel, Elmar; and Blank, Thomas, to Hoechst Aktiengesellschaft. Phonograph disk care product. 4,647,395, 3-3-87, Cl. 252-174.210.

Heisler, Raymond A. Troughing conveyors for carton or bag orienting and conveying. 4,676,361, 6-30-87, Cl. 198-394.000.

Heisner, Douglas L.; Zahlit, Wayne A.; and Lickus, Leonard J., to Molex Incorporated. Connector cassette and feed system. 4,653,66 3-31-87, Cl. 221-11.000.

Heissler, Herbert: *See—*

Lechner, Fritz; Heissler, Herbert; Scheer, Wolfgang; Siebels, Wolfgang; and Ascherl, Rudolf, 4,714,467, Cl. 623-16.000.

Heist, Hans; Toepfer, Dieter; and Britzke, Sylvia, to Hoechst Aktiengesellschaft. Device for treating printing plates with a fluid. 4,678,310, 7-7-87, Cl. 354-319.000.

Heistand, Robert H., II: *See—*

Khoury, Issam A.; Heistand, Robert H., II; and Kohatsu, Iwa 4,641,221, Cl. 361-321.000.

Heisterkamp, Nora: *See—*

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Heit, Werner: *See—*

Becker, Hans-Joachim; Heit, Werner; Rind, Wilhelm; and Warzawa, Wolfgang, 4,666,639, Cl. 264-0.500.

Becker, Hans-Joachim; Heit, Werner; Huschka, Hans; and Rind, Wilhelm, 4,668,444, Cl. 264-0.500.

Heithoff, Robert B.; and Groetzinger, John K., to PPG Industries, Inc. Method of preheating pulverulent batch material. 4,707,175, 11-17-87, Cl. 65-27.000.

Heithoff, Robert B.: *See—*

Lawhon, Robert A.; Heithoff, Robert B.; and Gonzalez, Wayne H., 4,696,691, Cl. 65-27.000.

Heiting, Bernd, to Krupp-Koppers GmbH. Method for the regeneration of washing solution utilized for simultaneous washing of nitrous oxide and sulfur dioxide from exhaust gases. 4,647,441, 3-3-87, Cl. 423-235.000.

Heitkamper, Peter: *See—*

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Heitman, James M.: *See—*

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Heitmann, Arnold M.: *See—*

Brassert, Walter L.; and Heitmann, Arnold M., 4,697,520, Cl. 102-334.000.

Heitmann, Bob, to Hauni-Werke Korber & Co. KG. Apparatus for locating, engaging and transporting the leader of convoluted cigarette paper or the like. 4,646,986, 3-3-87, Cl. 242-58.100.

Heitmann, Bob; Schluter, Karl-Heinz; and Steiniger, Wolfgang, to Hauni-Werke Korber & Co. Kg. Apparatus for manipulating uniting bands in machines of the tobacco processing industry. 4,659,414, 4-21-87, Cl. 156-361.000.

Heitmann, Jurgen, to Robert Bosch GmbH. Low cross-talk system for recording digitally coded color television signals on magnetic tape. 4,672,467, 6-9-87, Cl. 358-314.000.

Heitmann, Knut; Hoppe, Martin; Schneider, Eckhard; and Thaer, Andreas, to Ernst Leitz Wetzlar GmbH. Process for modifying structural profiles in resist layers. 4,672,012, 6-9-87, Cl. 430-3.000.

Heitmann, Knut: *See—*

Dransfeld, Klaus; and Heitmann, Knut, 4,669,313, Cl. 73-606.000.

Heitmann, Peter; Holik, Herbert; and Mirsberger, Peter, to Sulzer-Escher Wyss GmbH. Wet press for dewatering a material web with plural pressure pockets and unsymmetrical arrangement. 4,661,206, 4-28-87, Cl. 162-358.000.

Heitmann, Uwe, to Hauni-Werke Korber & Co. KG. Cigarette testing apparatus. 4,639,592, 1-27-87, Cl. 250-223.00B.

Heitmann, Uwe; Pinck, Peter; and Maiwald, Berthold, to Hauni-Werke Korber & Co. KG. Method and apparatus for scanning the exterior of rod-shaped articles of the tobacco processing industry. 4,644,176, 2-17-87, Cl. 250-572.000.

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Heitmann, Uwe, to Hauni-Werke Korber & Co. KG. Apparatus for perforating wrapping material for rod-shaped articles of the tobacco processing industry. 4,648,412, 3-10-87, Cl. 131-281.000.

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  Lorenzen, Heinz-Christen; Heitmann, Uwe; and Steinger, Wolfgang, 4,651,754, Cl. 131-84.300.

Heitmeier, Rolf: *See—*
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Heitschel, Carl T.: *See—*
  Willmott, Colin B.; Heitschel, Carl T.; and Wojciak, Bernard J., Jr., 4,716,301, Cl. 307-115.000.

Heitz, Alfred J.: *See—*
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Heitz, Christiane: *See—*
  Stambach, Jean-Francois; Jung, Louis; Heitz, Christiane; Schott, Claire; Stoclet, Jean-Claude; and Schutz, Fabienne, 4,645,772, Cl. 514-280.000.

Heitz, James R.: *See—*
  Crounse, Nathan N.; and Heitz, James R., 4,647,578, Cl. 514-454.000.

Heitz, Steven: *See—*
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Heitz, Steven A.; and Dobbs, Daniel R., to Sundstrand Corporation. Propulsion and directional control mechanism for an underwater device. 4,648,322, 3-10-87, Cl. 102-411.000.

Heitz, Steven A.: *See—*
  Fairchild, Jeffery; Heitz, Steven A.; and Symington, John, 4,696,618, Cl. 415-119.000.

Heitz, Walter, to Mayer & Grammelspacher DIANAWERK. Compressed-air weapon with piston rod hook element and counter-hook engagement system. 4,649,893, 3-17-87, Cl. 124-37.000.

Heitz, Walter; and Risse, Wilhelm, to Bayer Aktiengesellschaft. Process for the preparation of bifunctional polyphenylene oxide. 4,677,185, 6-30-87, Cl. 528-212.000.

Heitz, Walter: *See—*
  Binsack, Rudolf; Kohler, Karl-Heinz; Grigo, Ulrich; Morbitzer, Leo; Bottenbruch, Ludwig; and Heitz, Walter, 4,686,262, Cl. 525-177.000.
  Spies, Manfred; Strohriegl, Peter; and Heitz, Walter, 4,696,999, Cl. 528-319.000.

Heitzenroder, Hans; and Merz, Eckhard, to Dunlop Limited. Internally pressurized package with heat-sealable closure member. 4,715,494, 12-29-87, Cl. 206-213.100.

Heitzig, Jurgen, to Continental Gummi-Werke Aktiengesellschaft. Elastic motor mount. 4,673,169, 6-16-87, Cl. 267-140.100.

Heitzig, Jurgen: *See—*
  Eberhard, Gunter; and Heitzig, Jurgen, 4,650,169, Cl. 267-140.100.
  Eberhard, Gunter; and Heitzig, Jurgen, 4,700,931, Cl. 267-35.000.

Heitzman, Edward F.; and Heitzman, Edward J. Driver-vehicle behavior display apparatus. 4,716,458, 12-29-87, Cl. 358-103.000.

Heitzman, Edward J.: *See—*
  Heitzman, Edward F.; and Heitzman, Edward J., 4,716,458, Cl. 358-103.000.

Heitzmann, Hal: *See—*
  Hsu, Li-chien; and Heitzmann, Hal, 4,712,865, Cl. 350-96.290.
  Hsu, Li-Chien; and Heitzmann, Hal, 4,714,770, Cl. 556-419.000.

Heitzmann, Michel: *See—*
  Henry, Raymond; Heitzmann, Michel; and Sillard, Gilles, 4,660,008, Cl. 333-258.000.

Heitzmann, Richard E.; Fitzgerald, Mark; and Sawyer, James L., to Lone Star Industries, Inc. Mineral binder and compositions employing the same. 4,640,715, 2-3-87, Cl. 106-85.000.

Heitzmann, Richard F.; Fitzgerald, Mark; and Sawyer, James L., to Lone Star Industries, Inc. Mineral binder and compositions employing the same. 4,642,137, 2-10-87, Cl. 106-85.000.

Heitzmann, Rudolf: *See—*
  Heinrich, Siegfried; Heitzmann, Rudolf; and Shafik, Ahmed, 4,647,645, Cl. 528-45.000.

Heiwado Boueki Kabushiki Kaisha: *See—*
  Hiraishi, Mamoru, 4,712,279, Cl. 24-241.00R.

Heizer, Jozsef: *See—*
  Kaldor, Istvan; Szasz, Andras; Vegh nee Ba, Ilona; Heizer, Jozsef; and Behedek nee Haraszin, Eva, 4,656,290, Cl. 548-306.000.

Heizmann, Frieder, to Robert Bosch GmbH. Tracking mount for a contactless recording and/or reproducing head. 4,713,707, 12-15-87, Cl. 360-106.000.

Heja, Gergely; Korbonits, Dezso ; Palosi, Endre; Kiss, Pal; Gonczi, Csaba; Szvoboda nee Kanzel, Ida; Marvanyos, Ede; Kun, Judit; Szomor nee Wundele, Maria; Szabo, Gabor; Kallay, Tamas; and Ledniczky, Laszlo , to Chinoin Gyogyszer es Vegyeszeti Termekek Gyara Rt. Process for the preparation of diphenyl ether derivatives. 4,709,081, 11-24-87, Cl. 560-100.000.

Hek, Dirk G.: *See—*
  van der Vegte, Jan; and Hek, Dirk G., 4,684,212, Cl. 350-96.210.

Hekal, Ihab M., to Continental Can Company, Inc. Lid for a plastic container. 4,693,390, 9-15-87, Cl. 220-359.000.

Hekimian Laboratories, Inc.: *See—*
  Bailey, George, 4,710,890, Cl. 364-703.000.

Helal, Basil H., to OEC Europe Limited. Joint prosthesis. 4,634,445, 1-6-87, Cl. 623-21.000.

Helary, Jean-Louis E.; and Grenon, Pierre, to Framatome & Cie. Device for centering and guiding a roller supporting a heavy component. 4,687,174, 8-18-87, Cl. 248-638.000.

Helary, Louis J.; and Grenon, Pierre, to Et Lemer & Cie. Structure assemblable and disassemblable on a racking site for the storage of nuclear reactor fuel elements. 4,710,342, 12-1-87, Cl. 376-272.000.

Helb, Horst-Dietrich: *See—*
  Assmann, Gerd; and Helb, Horst-Dietrich, 4,656,006, Cl. 422-63.000.

Helber, Robert A. Storage bumper. 4,674,782, 6-23-87, Cl. 293-106.000.

Helbig, Klaus, to General Motors Corporation. Sliding roof panel and seal assembly. 4,676,493, 6-30-87, Cl. 296-216.000.

Helbig, Klaus: *See—*
  Gallion, Georg A.; Bratke, Dieter N.; Helbig, Klaus; and Reuter, Karl F., 4,640,450, Cl. 224-331.000.

Helbling, Clements A., Jr.; and Steinberg, Robert M., to Texaco Inc. Uniform flow distributing means for a trickle bed flow reactor. 4,708,852, 11-24-87, Cl. 422-220.000.

Helbling, Luis F., to Starnav Corporation. Apparatus for determining the magnitude of phase discontinuities introduced into a received signal at known instants. 4,647,935, 3-3-87, Cl. 342-433.000.

Held, Charles F.: *See—*
  Quinn, Daniel J.; Mulholland, Wayne A.; Bond, Robert H.; Olla, Michael A.; Cupples, Jerry S.; Tsitovsky, Ilya L.; Mozdzen, Barbara R.; Held, Charles F.; Wilson, Linda S.; and Nguyen, Yen T., 4,685,998, Cl. 156-633.000.

Held-Elbert, Gabriele; Kaiser, Wolfgang; and Schmutzler, Werner, to Siemens Aktiengesellschaft. Method and apparatus for determining the value of analog voltages occurring on telephone subscriber lines of a digital telephone exchange. 4,691,337, 9-1-87, Cl. 379-24.000.

Held, Franz, to Maschinenfabrik Goebel GmbH. Lower cutter of an apparatus for longitudinally slitting a web. 4,646,603, 3-3-87, Cl. 83-425.400.

Held, Kurt. Apparatus for the electrodeposition of a coating on an endless belt. 4,640,758, 2-3-87, Cl. 204-272.000.

Held, Kurt. Sliding surface seals for a double band press. 4,665,818, 5-19-87, Cl. 100-154.000.

Held, Kurt. Method of the electrodeposition of a coating on an endless belt. 4,686,016, 8-11-87, Cl. 204-25.000.

Held, Kurt. Process and device for fabrication of copper-lined laminates. 4,687,528, 8-18-87, Cl. 156-150.000.

Held, Kurt. Method for continuous heated pressing of material in sheet form. 4,693,859, 9-15-87, Cl. 264-112.000.

Held, Kurt. Process of and device for heating parts of a double band press. 4,699,676, 10-13-87, Cl. 156-64.000.

Held, Kurt. Sealing arrangement for a double band press. 4,711,168, 12-8-87, Cl. 100-154.000.

Held, Manfred, to Messerschmitt-Bolkow-Blohm GmbH. Fuze for setting off jacketed explosive charges. 4,658,726, 4-21-87, Cl. 102-416.000.

Held, Manfred, to Messerschmitt-Bolkow-Blohm GmbH. Detonator safety device for a weapon. 4,696,232, 9-29-87, Cl. 102-254.000.

Held, Peter, to Wolf-Gerate GmbH. Pruning shears. 4,696,107, 9-29-87, Cl. 30-246.000.

Held, Robert P., to Du Pont de Nemours, E. I., and Company. Process for making lithographic film using photopolymer diffusion modulation layer for pigmented bottom layer. 4,654,296, 3-31-87, Cl. 430-325.000.

Heldenbrand, Stanley W., to Northern Telecom Limited. Hook switch actuator assembly. 4,674,120, 6-16-87, Cl. 379-427.000.

Heldenbrand, Stanley W.; and Chappuis, Clyde L., to Northern Telecom Limited. Cabinet for an electronic apparatus. 4,679,867, 7-14-87, Cl. 312-287.000.

Helderle, Paul M.; and Raimond, Michel, to Total Compagnie Francaise des Petroles. Hydraulically controlled safety valves for incorporation in production tubes of hydrocarbon production wells. 4,651,827, 3-24-87, Cl. 166-317.000.

Helderman, J. Frank. Method for removable anchor apparatus. 4,635,337, 1-13-87, Cl. 29-432.000.

Heldman, Eli: *See—*
  Pollard, Harvey B.; Ornberg, Richard; Banerjee, Dipak; Youdim, Moussa; Lelkes, Peter; and Heldman, Eli, 4,670,394, Cl. 435-240.000.

Helena Laboratories Corporation: *See—*
  Butts, Gene A.; Garsee, Henry A.; Kelley, Charles D.; Petty, Bruce R.; and Pauley, James L., 4,684,244, Cl. 356-39.000.
  Butts, Gene A.; Kelley, Charles D.; Garsee, Henry A.; Petty, Bruce R.; and Pauley, James L., 4,697,236, Cl. 364-416.000.
  Guadagno, Philip A.; and Markus, James R., 4,647,541, Cl. 436-66.000.
  Mayes, David G., 4,709,810, Cl. 206-205.000.
  Mayes, Ronald A., 4,683,911, Cl. 137-561.00A.

Helene Curtis, Inc.: *See—*
  Fromm, George R.; and Stefaniak, Philip S., 4,692,586, Cl. 219-225.000.
  Hoshowski, Myra A.; and Patel, Chaitanya, 4,678,475, Cl. 8-606.000.

Helene Curtis Industries, Inc.: *See—*
  Preston, John C., 4,654,207, Cl. 424-70.000.

Helenius, Kari H.: *See—*
  Kimmo, Kayhko; and Helenius, Kari H., 4,690,900, Cl. 436-47.000.

Helfer, Friedrick: *See—*
  Stadt, Enno; and Helfer, Friedrick, 4,699,022, Cl. 74-782.000.

Helfer, Jeffrey L.; and Osburn, Robert R., to Eastman Kodak Company. Method and apparatus for producing a flash free pipette. 4,647,419, 3-3-87, Cl. 264-328.900.

Helfer, Paul E.; and Jones, Marvin R. Ram-type blowout preventer. 4,655,431, 4-7-87, Cl. 251-1.300.

Helfer, Paul E.: *See—*
Jones, Marvin R.; and Helfer, Paul E., 4,638,972, Cl. 251-1.300.

Helffer, Bernard; and Scheydecker, Jacques, to Institut Textile de France. Process and installation for transfer and positioning. 4,679,785, 7-14-87, Cl. 271-227.000.

Helfman, Barbara. Partition wall planter. 4,698,936, 10-13-87, Cl. 47-68.000.

Helfrich, Robert H. Seating apparatus. 4,685,725, 8-11-87, Cl. 297-45.000.

Helgaker, Iver A.: *See—*
Sorlien, Per H.; Helgaker, Iver A.; Halvorsen, Magne; and Rustad, Jan H., 4,676,525, Cl. 280-824.000.

Helgee, Oskar B.: *See—*
Ugelstad, John; Ellingsen, Turid; Berge, Arvid; and Helgee, Oskar B., 4,654,267, Cl. 428-407.000.

Helgeland, Olav, to Tandberg Data A/S. Adaptable housing for a video terminal. 4,662,797, 5-5-87, Cl. 358-254.000.

Helgeland, Olav, to Tangberg Data A/S. Adjustable stand for a visual display unit. 4,690,362, 9-1-87, Cl. 248-404.000.

Helgeland, Walter, to Ferrofluidics Corporation. Pulling head for a crystal growing furnace. 4,663,128, 5-5-87, Cl. 422-249.000.

Helger, Roland: *See—*
Henkel, Eberhard; Dolabdjian, Barkew; Helger, Roland; Klink, Rainer; and Wurzburg, Uwe, 4,698,300, Cl. 435-18.000.

Helgesen, Peter E.: *See—*
Hodges, Robert E.; Bell, John K., III; and Helgesen, Peter E., 4,651,489, Cl. 52-409.000.

Helgesson, Stig B. J., to AB Konstruktions-Bakelit. Holder for household implements, especially a can opener. 4,651,962, 3-24-87, Cl. 248-309.100.

Helgstrand, Ake J. E.: *See—*
Eriksson, Bertil F. H.; Helgstrand, Ake J. E.; Misiorny, Alfons; Stening, Goran B.; and Stridh, Stig A., 4,665,062, Cl. 514-120.000.

Helias, Guy: *See—*
Beaupere, Didier; and Helias, Guy, 4,677,638, Cl. 372-87.000.

Helical Springs Limited of Lytham Ind. Est. Park: *See—*
Palmer, Raymond L., 4,676,029, Cl. 51-140.000.

Heling, Dennis H., to Chrysler Motors Corporation. Vehicle easy entry seat track with one position memory. 4,639,038, 1-27-87, Cl. 297-341.000.

Heling, Dennis H.: *See—*
Manning, Steven F.; Perkins, Jimmie G.; and Heling, Dennis H., 4,633,763, Cl. 91-530.000.
Zaveri, Vikram; Heling, Dennis H.; and Radyko, Keith S., 4,634,180, Cl. 297-341.000.

Helinski, Richard R., to Howtek, Inc. Color printed record. 4,666,757, 5-19-87, Cl. 428-203.000.

Helinski, Richard R.; Lutz, Carl D.; Peer, Thomas R.; and Eno, Philip A., to Howtek, Inc. Ink jet printer. 4,714,936, 12-22-87, Cl. 346-140.00R.

Helios Research Corp.: *See—*
Nicodemus, Carl D., 4,673,335, Cl. 417-54.000.

Helitrex, Inc.: *See—*
Nichols, Joseph, 4,657,548, Cl. 623-10.000.

Helix, Max J.: *See—*
Cirillo, Nicholas C., Jr.; Helix, Max J.; and Jamison, Stephen A., 4,662,058, Cl. 29-571.000.

Helix Technology Corporation: *See—*
Andeen, Bruce R., 4,679,402, Cl. 62-55.500.
Bourke, Edward L.; and Cartwright, James E., 4,697,617, Cl. 137-549.000.
Eacobacci, Michael J.; and Planchard, David C., 4,655,046, Cl. 62-55.500.
Klusmier, Lawrence A., 4,693,736, Cl. 62-6.000.
Lessard, Philip A.; Bartlett, Allen J.; and Peterson, John F., 4,679,401, Cl. 62-55.500.
Lessard, Philip A.; and Smith, Marshall J., 4,708,165, Cl. 137-509.000.
Young, Niels O., 4,644,851, Cl. 92-127.000.
Young, Niels O., 4,664,685, Cl. 62-6.000.
Young, Niels O., 4,697,113, Cl. 310-15.000.

Hell GmbH & Co.: *See—*
Hell, Uwe, 4,682,562, Cl. 118-500.000.

Hell, Gunther, to Herbert Kannegiesser GmbH & Co. Heating device for appliances for gluing sheet-like textile articles. 4,675,509, 6-23-87, Cl. 219-486.000.

Hell, Uwe, to Hell GmbH & Co. Holding device for metal sections which are to be coated in two colors. 4,682,562, 7-28-87, Cl. 118-500.000.

Hella KG Hueck & Co.: *See—*
Ernst, Hans-Otto; and Jakobsmeyer, Helmut, 4,679,127, Cl. 362-294.000.
Freudenreich, Erwin; Flerlage, Horst; and Sewing, Karlernst, 4,682,274, Cl. 362-61.000.
Peitz, Wolfgang; and Mazziotti, Pietro-Antonio, 4,677,532, Cl. 362-61.000.
Urbschat, Ulrich, 4,710,855, Cl. 362-66.000.

Helland, Randall H.; and Burton, Craig A., to Minnesota Mining and Manufacturing Company. Fluorinated carbon-containing developer composition. 4,681,830, 7-21-87, Cl. 430-110.000.

Hellat, Jaan; and Keller, Jakob, to BBC Brown, Boveri & Company, Limited. Pressure wave machine operating as pressure exchanger, in particular for use as the high-pressure compressor for gas turbines. 4,679,393, 7-14-87, Cl. 60-39.450.

Hellat, Jaan; and Keller, Jakob, to BBC Brown, Boveri & Company, Limited. Axial swirl body for generating rotary flows. 4,695,22 9-22-87, Cl. 415-189.000.

Hellbach, Hans: *See—*
Baur, Karl G.; Diehl, Volker; Stops, Peter; Hellbach, Hans; and Brunner, Erwin, 4,681,946, Cl. 546-317.000.

Hellbergh, Axel H., to Santrade Limited. Router tool and insert f same. 4,655,648, 4-7-87, Cl. 407-42.000.

Helle, Charles. Process for the production of propellant powders. 4,670,200, 6-2-87, Cl. 264-3.300.

Helle, Hans-Joachim, to Montanwerke Walter GmbH. Machine an process for cutting chipping-grooves into elongated peripheral milling cutters with hemispherical tips. 4,691,479, 9-8-87, Cl. 51-165.7

Helleboid, Jean-Marie: *See—*
Letournel, Michel; Helleboid, Jean-Marie; and Teissier, Claude 4,680,496, Cl. 310-308.000.

Hellekson, Ronald A.; and Peterson, Donald S., to Spectra-Physics, In Bar code scanner with DC brushless motor. 4,709,195, 11-24-87, C 318-254.000.

Hellekson, Ronald A.: *See—*
Lonsdale, Randall J.; and Hellekson, Ronald A., 4,678,288, C 350-432.000.

Heller, Arthur; Gierlinger, Friedrich; and Schaumberger, Alfred, t U.S. Philips Corporation. Method of producing a modulated chrominance signal with suppressed carrier and color carrier modulator fo performing the method. 4,646,137, 2-24-87, Cl. 358-23.000.

Heller, Ava. Eyebrow trimmer. 4,700,477, 10-20-87, Cl. 30-51.000.

Heller, Donald F., to Allied Corporation. Noble-metal overcoated front-surface silver reflectors. 4,713,824, 12-15-87, Cl. 372-99.000

Heller, Donald F.: *See—*
Morris, Robert C.; Long, Margaret N.; Chin, Timothy C.; and Heller, Donald F., 4,713,820, Cl. 372-41.000.

Heller, Edward P., III, to Control Data Corporation. Method fo polling headphones of a passive TV audience meter system 4,652,915, 3-24-87, Cl. 358-84.000.

Heller, Harold; Lange, Peter M.; and Martinola, Friedrich, to Bay Aktiengesellschaft. Process for reducing the wash water requiremen of weakly basic anion exchangers. 4,705,637, 11-10-87, C 210-670.000.

Heller, Harold H.; Oliver, Stephen N.; Whittal, John; Johncock, William; Darcy, Paul J.; and Trundle, Clive, to Plessey Company pl The. Polychromic tetracyclo-spiro-adamatylidene derivatives, an polychromic lens incorporating said compounds. 4,685,783, 8-11-8 Cl. 351-163.000.

Heller, James W.; Kugler, Andrew J.; Longacre, Andrew, Jr.; and Williams, Daniel L., to Welch Allyn, Inc. Portable hand-held tympanometer. 4,688,582, 8-25-87, Cl. 128-746.000.

Heller, Jerrold A.: *See—*
Gilhousen, Klein S.; Heller, Jerrold A.; Van Harding, Michael; and Blakeney, Robert D., II, 4,712,238, Cl. 380-20.000.

Heller, Jorge, to Merck & Co., Inc. Polymers containing pendant ac functionalities and labile backbone bonds. 4,639,366, 1-27-87, C 424-19.000.

Heller, Jorge; Skinner, Wilfred A.; Saito, Kenichiro; and Sa Susumu, to Nitto Electric Industrial Co., Ltd. Method for percutaneously administering physiologically active agents. 4,710,497, 12-1-8 Cl. 514-221.000.

Heller, Jorge; and Penhale, Donald W. H., to Sandoz Pharmaceutica Corp. Polyacetal hydrogels formed from divinyl ethers and polyo 4,713,441, 12-15-87, Cl. 528-392.000.

Heller, Jurg; Kissling, Bruno; Robinson, Tibor; and Valenti, Salvato to Sandoz Ltd. Aftertreatment of dyed or printed textiles with polymeric polybasic amino compound. 4,645,511, 2-24-87, C 8-549.000.

Heller, Lawrence: *See—*
Wrinn, Joseph F.; Heller, Lawrence; Chen, Jiann-Neng; and Brunner, Jacqueline N., 4,660,197, Cl. 371-1.000.

Heller, Lawrence G.: *See—*
Griffin, William R.; Heller, Lawrence G.; and Horowitz, Peter 4,638,482, Cl. 371-63.000.

Heller, Rudolf, to Contraves AG. Support apparatus for an opt observation device. 4,684,088, 8-4-87, Cl. 248-123.100.

Heller, Wilhelm; Weber, Lutz; Schweitzer, Reinhard; and Flu Jurgen, to Krupp Stahl Aktiengesellschaft. Method for redu internal stresses of roller straightened rails. 4,659,398, 4-21-87, 148-12.00R.

Heller, Wilhelm; Flugge, Jurgen; and Ratz, Gerhard, to Krupp S AG. Method for thermal treatment of pearlitic rail steels. 4,714 12-22-87, Cl. 148-12.00R.

Heller, Wolfgang; Ruckert, Peter; and Wiemann, Dieter, to B Werke Bahre & Greten GmbH & Co. KG. Apparatus for obtain predeterminable distribution of weight in the transverse directi a pre-mat and/or mat. 4,636,159, 1-13-87, Cl. 425-148.000.

Helleur, Donald E. Method and apparatus for controlling the size opening through which a product is metered. 4,640,742, 2-3-8 162-212.000.

Hellgren, Keijo, to ASEA Aktiebolag. Forming press of the pre cell type. 4,658,618, 4-21-87, Cl. 72-63.000.

Hellgren, Keijo, to ASEA Aktiebolag. Press of pressure cell 4,676,086, 6-30-87, Cl. 72-63.000.

Hellgren, Keijo, to ASEA AB. Forming press of the pressure cel and a process for changing diaphrams in such a press. 4,69 9-15-87, Cl. 72-63.000.

Hellgren, Keijo, to Asea AB. Forming press that utilizes trays formed of thin bottom plates and separate annular frames. 4,711,111, 12-8-87, Cl. 72-63.000.

Hellgren, Lars G. I.; Mohr, Viggo; and Vincent, Jan G., to Pharmacia AB. Enzyme composition acting as a digestion promoter on various levels in the alimentary tract, and a method for facilitating digestion. 4,695,457, 9-22-87, Cl. 424-94.000.

Hellickson, Mylo A.: *See—*
  Christianson, Leslie L.; Alcock, Ralph; Froehlich, Donell P.; and Hellickson, Mylo A., 4,662,472, Cl. 180-235.000.

Hellige GmbH: *See—*
  Diskowski, Jorg; Jeppel, Wolfgang; Moisel, Hartmut; and Spiess, Hans P., 4,674,061, Cl. 364-571.000.

Helling, Bernd: *See—*
  Rutherford, David G.; Helling, Bernd; Shearn, David M.; and Shaler, David, 4,661,861, Cl. 358-302.000.

Helling, Gunter; and Himmelmann, Wolfgang, to Agfa Gevaert Aktiengesellschaft. Color photographic recording material containing a polymeric gelatine plasticizer. 4,714,671, 12-22-87, Cl. 430-545.000.

Helling, Loren L.; and Helling, Marlene M. Tool assembly. 4,663,796, 5-12-87, Cl. 15-144.00A.

Helling, Marlene M.: *See—*
  Helling, Loren L.; and Helling, Marlene M., 4,663,796, Cl. 15-144.00A.

Helling, Wilhelm. Apparatus for the application of a primer to a plastic profile or the like. 4,712,507, 12-15-87, Cl. 118-208.000.

Hellkamp, Leo A., to Gerrard Brothers, Incorporated. Articulated mooring device. 4,656,961, 4-14-87, Cl. 114-230.000.

Hellman, Goran, to Munters Corporation, The. Water treatment system. 4,687,574, 8-18-87, Cl. 210-151.000.

Hellman, Martin E. Software distribution system. 4,658,093, 4-14-87, Cl. 380-25.000.

Hellman, Nat, III, to Microcomputer Accessories, Inc. Modular cable management system for related electronics equipment. 4,681,378, 7-21-87, Cl. 312-108.000.

Hellmann, Walter: *See—*
  Krajec, Otmar; and Hellmann, Walter, 4,664,672, Cl. 8-472.000.

Hellmers, Emil D. Marine pile protective system. 4,697,957, 10-6-87, Cl. 405-216.000.

Hellner, Lars; Haglund, Ingemar; Ronn, Torsten; and Albrektsson, Kjell, to Aktiebolaget Bofors. Shell case with non-compressible fragments metallurgically bonded to the casing. 4,644,867, 2-24-87, Cl. 102-495.000.

Hellnick, Dieter; Victor, Karl J.; and Otten, Gregory K. Method for machining and improved modified threaded collar. 4,708,038, 11-24-87, Cl. 82-1.00C.

Hellriegel, Edmund, to Dynamit Nobel Aktiengesellschaft. Door for a motor vehicle. 4,702,040, 10-27-87, Cl. 49-502.000.

Hellsten, Karl M. E., to Berol Kemi AB. Process for dry-cleaning textiles and microemulsion dry cleaning composition for the use therein. 4,659,332, 4-21-87, Cl. 8-142.000.

Hellstrom, Bengt, to Telefonaktiebolaget LM Ericsson. Method of measuring the dispersion of a transmitting optical fibre. 4,637,072, 1-13-87, Cl. 455-607.000.

Hellstrom, Lars, to Optimed N.V. Method for manufacturing a spectacle-glass for myopes. 4,707,949, 11-24-87, Cl. 51-284.00R.

Hellstrom, Lars, to N.V. Optimed. Visual aid especially for weak-sighted persons. 4,714,329, 12-22-87, Cl. 351-158.000.

Hellwig, Claus; Hempel, Ernst-Heinrich; Kunath, Peter; and Rinckleb, Ulf, to VEB Kombinat Textima. Device for and a method of controlling knitting machines. 4,649,720, 3-17-87, Cl. 66-75.200.

Hellwig, Claus: *See—*
  Muller, Hartwig; Hellwig, Claus; and Beyer, Dietmar, 4,697,438, Cl. 66-75.200.

Hellwig, Manfred, to Konrad Hornschuch AG. Reflecting textile web and method for the production thereof. 4,645,704, 2-24-87, Cl. 428-176.000.

Helm, Eugene C.: *See—*
  Hyde, A. P. Stanley; Persing, Thomas E.; and Helm, Eugene C., 4,669,035, Cl. 362-326.000.

Helm, Herbert W., to F. L. Smithe Machine Company, Inc. Apparatus for making window patches. 4,642,085, 2-10-87, Cl. 493-222.000.

Helm, John L.; and Leonard, John S., to Proto-Power Corporation. Gas circulator for a nuclear reactor and a method for use thereof. 4,683,111, 7-28-87, Cl. 376-391.000.

Helm, John R.: *See—*
  Boden, Richard M.; and Helm, John R., 4,634,547, Cl. 252-522.00R.
  Boden, Richard M.; and Helm, John R., 4,673,533, Cl. 252-522.00R.

Helm, William N.; and Link, David G., to Massey Combines Corporation. Stone trap for a combine harvester. 4,657,029, 4-14-87, Cl. 130-27.0JT.

Helm, William N. Axial flow combine harvester feed plate. 4,665,929, 5-19-87, Cl. 130-27.00T.

Helmer, Radisch; and Gunther, Esser, to Saint-Gobain Vitrage. Process for treating the surface of a transparent sheet or film having antilaceration and self-healing properties and the product made thereby. 4,711,805, 12-8-87, Cl. 428-323.000.

Helmersson, Rickard, to Gotaverken Arendal AB. Remotely releasable connections at a floating processing plant. 4,660,496, 4-28-87, Cl. 114-264.000.

Helmet Sound, Inc.: *See—*
  Scott, Anthony W., 4,636,592, Cl. 381-187.000.

Helmich, Melvin J.; Ryan, William P.; and Marvin, David H., to Cooper Industries. Fuel control system for dual fuel engines. 4,708,094, 11-24-87, Cl. 123-27.0GE.

Helmig, Michael A.: *See—*
  Engelbrecht, Filluppus T.; Potgieter, Frederick D.; Smith, Cecil R.; and Helmig, Michael A., 4,660,286, Cl. 30-276.000.

Helmink, Randolph C., to TRW Inc. Method of forming a rotor. 4,680,160, 7-14-87, Cl. 419-6.000.

Helmke, Richard W., to United States of America, Army. Military tactical bridge system, method and foldable modules. 4,635,311, 1-13-87, Cl. 14-2.400.

Helmlinger, Daniel; and Pesaro, Mario, to Givaudan Corporation. Novel bicyclic epoxides and compositions. 4,634,548, 1-6-87, Cl. 252-522.00R.

Helmrich, Ralph H.: *See—*
  Diamond, George B.; and Helmrich, Ralph H., 4,667,601, Cl. 102-368.000.

Helms, Charles C.; Conlon, Ralph D.; and Delany, Edward B., to Perkin-Elmer Corporation, The. Instantaneous reading multichannel polychromatic spectrophotometer method and apparatus. 4,678,917, 7-7-87, Cl. 250-373.000.

Helms, David A.: *See—*
  Hatton, Gregory J.; Helms, David A.; and Williams, Thomas M., 4,660,414, Cl. 73-61.10R.

Helms, Georg: *See—*
  Knodel, Gunter; and Helms, Georg, 4,640,141, Cl. 74-357.000.

Helms, Howard D., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Technique for the operational life test of microprocessors. 4,706,208, 11-10-87, Cl. 364-580.000.

Helms, Robert L., Jr., to O-Board, Inc. Game with pegs randomly moved on board to stretch an elastic band. 4,667,965, 5-26-87, Cl. 273-243.000.

Helms, Roger L., and Harper, Stephen M., to Dow Chemical Company, The. Ultra low flow rate liquid redistributor assembly for use in a liquid-vapor contact tower. 4,689,183, 8-25-87, Cl. 261-97.000.

Helmsdorfer, Robert J.; Kemnitz, Todd; and Blaney, Robert J., to Midwest Innovations, Inc., by said Todd Kemnitz. Low voltage computer cable wall aperture molding. 4,688,747, 8-25-87, Cl. 248-56.000.

Helmstetter, Thomas J., Sr.: *See—*
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  Coburn, Arthur E.; and Deal, Roger, 4,687,559, Cl. 204-110.000.

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Helterbrand, David L. Spare tire carrier. 4,711,382, 12-8-87, Cl. 224-42.230.

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  Prince, Paul R.; and Clark, Ronald L., 4,657,529, Cl. 604-6.000.
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Hemp, Bruce: *See—*

Payne, Donald W.; and Hemp, Bruce, 4,680,689, Cl. 363-26.000.

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Polinsky, Samuel M.; Bierman, Larry W.; and Hempel, David A., 4,642,181, Cl. 209-167.000.

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- Vit, Jaroslav; Salsbury, Ronald L.; and Henderson, Don J., 4,693,986, Cl. 501-1.000.

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- Fretwell, Percy, 4,711,613, Cl. 414-550.000.

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Henderson, Edwin L. Photoelectric bin level sensor and method of installing the same. 4,709,143, 11-24-87, Cl. 250-222.100.

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- Henderson, James M.; and Henderson, Gordon C., 4,654,755, Cl. 361-399.000.

Henderson, Harold R.; and Mosinski, David, to Arcair Company. Exothermic cutting electrode. 4,697,791, 10-6-87, Cl. 266-48.000.

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- Sare, Ian R.; Henderson, Ian D.; Heijkoop, Teunis; Bosworth, Michael R.; Aspin, Ronald E.; and Arnold, Brian K., 4,635,701, Cl. 164-102.000.

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Henderson, James S., to New Holland Inc. Expelled deflector for manure spreaders. 4,709,861, 12-1-87, Cl. 239-675.000.

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- Warnes, Paul R.; Henderson, James T.; and Leja, John P., 4,704,479, Cl. 568-390.000.

Henderson, Larry D.: *See—*
- Anderson, Roy W.; Ross, Stephen J.; and Henderson, Larry D., 4,715,723, Cl. 366-142.000.

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Henderson, Scott R. Fold-up insulated beverage container holder with a stabilizing support base. 4,648,525, 3-10-87, Cl. 220-85.00H.

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Henderson, Tom. Oil well sub-surface pump stroke extender. 4,653,383, 3-31-87, Cl. 92-13.100.

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Hendricks, Daniel A.; and Townsend, Warren E., to Boeing Company, The. Hand tool for installing plastic fasteners. 4,653,309, 3-31-87, Cl. 72-391.000.

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Hendricks, Joe W.: *See—*
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Hendricks, Quentin J.: *See—*
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Hendricks, Udo W.; and Schmidt, Adolf, to Bayer Aktiengesellschaft. Branched sulfosuccinamic acid emulsifiers for the production of particularly shear-stable despersions. 4,701,284, 10-20-87, Cl. 260-513.00N.

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Hendrickson, Anton C.: *See—*
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- Kabb, Harold L.; Flint, John R.; Videlock, Gary B.; Niazi, Ishfaq A.; Hendrickson, Kenneth L.; Slutsky, Gary S.; Schwalb, Stuart F.; Carroll, John J.; and Friedrich, Paul H., 4,699,504, Cl. 355-20.000.

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Hendrie, Gardner C.: *See—*
- Samson, Joseph E.; Wolff, Kenneth T.; Reid, Robert; Hendrie, Gardner C.; Falkoff, Daniel M.; Dynneson, Ronald E.; Clemson, Daniel M.; and Baty, Kurt F., 4,654,857, Cl. 371-68.000.

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- Downer, James R.; Eisenhaure, David B.; Oberbeck, George; Bliamptis, Tim E.; and Hendrie, Susan D., 4,700,094, Cl. 310-90.500.

Hendriks, Jan J. M.: *See—*
- Lovie, John R.; Somers, Gerardus A.; and Hendriks, Jan J. M., 4,715,935, Cl. 204-44.600.

Hendriock, Hans-Jurgen: *See—*
- Neumann, Wolfgang; and Hendriock, Hans-Jurgen, 4,670,503, Cl. 524-520.000.

Hendrix, Charles E.: *See—*
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Hendrix, David C., to BASF Corporation. Rotary drum vacuum filter for easily eroded cakes. 4,655,937, 4-7-87, Cl. 210-772.000.

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Hendy, Brian N.; and Smith, John W., to Imperial Chemical Industries PLC. Membranes. 4,714,725, 12-22-87, Cl. 524-108.000.

Henegar, Jacob: *See—*
Stearns, David; Sum, Leung C.; and Henegar, Jacob, 4,663,697, Cl. 362-184.000.

Henein, Gerard E.; Hepplewhite, Ralph T.; and Schwartz, Bertram, to AT&T Bell Laboratories. Fluxless bonding of microelectronic chips. 4,645,116, 2-24-87, Cl. 228-123.000.

Henesian, Mark A.: *See—*
Haas, Roger A.; and Henesian, Mark A., 4,649,544, Cl. 372-22.000.

Heng, Cheng K., to Metro Plastic Industry Pte. Ltd. Slidably staggerable tiered document tray. 4,657,148, 4-14-87, Cl. 211-128.000.

Heng, Jean-Paul; Marmonier, Andre ; Ruiz, Ariel; and Guernet, Henri, to CGEE Alsthom. Electrical screw connection. 4,693,542, 9-15-87, Cl. 439-626.000.

Heng, Jean-Paul; Marmonier, Andre ; and Briguet, Etienne, to CGEE Alsthom. Modular assembly for housing electrical apparatus. 4,704,659, 11-3-87, Cl. 361-394.000.

Heng, Jean-Paul; Jusseau, Marcel; and Humbert-Labeaumaz, Alain, to Cgee Alsthom. Junction block for optical fibers. 4,712,863, 12-15-87, Cl. 350-96.210.

Hengartner, Urs; and Ramuz, Henri, to Hoffmann-La Roche Inc. Tetrahydronaphthalene derivatives. 4,680,310, 7-14-87, Cl. 514-539.000.

Hengelmolen, Andrianus J., to Hengelmolen Engineering B.V. Furnace for melting metals. 4,715,584, 12-29-87, Cl. 266-155.000.

Hengelmolen Engineering B.V.: *See—*
Hengelmolen, Andrianus J., 4,715,584, Cl. 266-155.000.

Hengeveld, John A.: *See—*
McDonald, Ronald; and Hengeveld, John A., 4,707,843, Cl. 377-8.000.

Hengl, Gerhard G. Massaging apparatus for the lower extremities of the body. 4,711,229, 12-8-87, Cl. 128-49.000.

Henglein, Rudolf: *See—*
Bieber, Oswald; Haas, Erich; Henglein, Rudolf; and Richter, Bernd, 4,693,277, Cl. 138-89.000.

Hengst, Thomas; and Hahn, Andreas, to Messerschmitt-Bolkow-Blohm GmbH. Connector for coupling a medical laser tool to a laser. 4,669,819, 6-2-87, Cl. 350-96.200.

Hengstberger, Herbert: *See—*
Hengstberger, Maria; Hengstberger, Herbert; and Monch, Harry, 4,633,865, Cl. 128-303.00R.

Hengstberger, Maria; Hengstberger, Herbert; and Monch, Harry, to Rewoplan medizin-technische Einrichtungsgesellschaft mbH. Device for performing examinations and interventions in the abdominal cavity of a patient. 4,633,865, 1-6-87, Cl. 128-303.00R.

Hengstenberger, Gary M.; Montavon, John I.; and Fuller, David C., to Hengstenberger, Gary M.; and Montavon, John I. Safety harness. 4,682,671, 7-28-87, Cl. 182-3.000.

Hengstler Bauelemente GmbH: *See—*
Seeger, Gunter A.; and Reger, Arno, 4,705,922, Cl. 200-61.45M.

Hengstler GmbH Geschaftsbereich Haller-Relais: *See—*
Nestlen, Wolfgang; and Rudolf, Reiner, 4,709,219, Cl. 335-129.000.

Henig, Sammy S.: *See—*
Dietz, Wolfgang F. W.; and Henig, Sammy S., 4,660,080, Cl. 358-158.000.

Henin, Jean-Pierre; and Niel, Philippe, to Fives-Cail Babcock. Apparatus for the calcination of a pulverized mineral material. 4,645,452, 2-24-87, Cl. 432-58.000.

Heninger, Andrew G., to Zilog, Inc. Busy signal interface between master and slave processors in a computer system. 4,648,034, 3-3-87, Cl. 364-200.000.

Heninger, Byrne E.: *See—*
Bachman, Gilbert; and Heninger, Byrne E., 4,671,512, Cl. 273-139.000.

Henk, Hermann: *See—*
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Henke, Arthur, to Gelman Sciences, Inc. Arterial blood filter. 4,676,771, 6-30-87, Cl. 604-4.000.

Henke, Klaus; and Wozniak, Johannes, to Hoesch Aktiengesellschaft. Running wheel for track vehicles. 4,696,525, 9-29-87, Cl. 301-63.0DS.

Henke, Michael D.: *See—*
Barclay, John A.; Stewart, Walter F.; Henke, Michael D.; and Kalash, Kenneth E., 4,704,871, Cl. 62-3.000.

Henke, Mitchell C.: *See—*
Bratton, Ronald E.; Gigandet, Richard W.; Henke, Mitchell C.; Kaminski, Daniel S.; and Wibel, Michelle A., 4,701,340, Cl. 426-511.000.
Gorsuch, Roger K.; Bell, Gordon D.; Henke, Mitchell C.; Wibel, Michelle; Bratton, Ronald E.; and Lee, Effie J., 4,676,151, Cl. 99-450.000.

Henke, Steven E.: *See—*
Irwin, Samuel N.; Lum, Francis; Bolt, Michael L.; Henke, Steven E.; Sokolik, Edmund L.; and Chambors, John M., 4,647,994, Cl. 360-85.000.

Henke, Ulrich: *See—*
Angelbeck, Rolf; Gesell, Reinhard; Greve, Helmut; and Henke, Ulrich, 4,667,948, Cl. 271-98.000.

Henkel Corporation: *See—*
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Bereiter, Bruce A., 4,671,892, Cl. 252-370.000.
DiDomenico, Edward D., Jr., 4,656,061, Cl. 427-385.500.
Elmquist, Lyle F.; Howland, Warren W.; and Karl, Curtis L., 4,655,943, Cl. 252-8.551.
Floyd, Don E., 4,696,771, Cl. 260-404.000.
Gladfelter, Elizabeth J.; and Rogier, Edgar R., 4,649,214, Cl 560-120.000.
Howland, Warren W.; Arquette, Robert E.; and Wu, Shang-Ren, 4,692,169, Cl. 44-51.000.
Karl, Curtis L., 4,637,418, Cl. 137-13.000.
Kokko, Kent S.; and Mattison, Phillip L., 4,698,429, Cl 546-179.000.
Lovald, Roger A., 4,661,194, Cl. 156-330.900.
Maier, Helmut K., 4,645,812, Cl. 526-200.000.
Rogier, Edgar R., 4,642,391, Cl. 568-624.000.
Swan, Dale G.; and Hansen, Jerry C., 4,656,242, Cl. 528-295.300
Thompson, John A.; and Keogh, Christopher B., 4,649,169, Cl 524-247.000.
Tuominen, Francis W.; Swanson, Ronald R.; Mattison, Phillip L MacKay, Kenneth D.; and Glorvigen, Bradley W., 4,661,606, Cl 548-497.000.
Tuominen, Francis W.; Maier, Helmut K.; and Howland, Warren W., 4,695,453, Cl. 424-81.000.
Virnig, Michael J., 4,638,096, Cl. 568-433.000.
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Wenzel, Bruce E.; and Clark, James P., 4,711,894, Cl. 514-458.00
Whyzmuzis, Paul D.; and Menke, John M., 4,683,262, Cl 524-608.000.
Wirth, Ronald P., 4,665,204, Cl. 549-410.000.
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Henkel, Dietmar, to MAN Nutzfahrzeuge GmbH. Fuel injection system for self-ignition internal combustion engines. 4,711,209, 12-8-87, Cl. 123-300.000.

Henkel, Eberhard; Dolabdjian, Barkew; Helger, Roland; Klink, Rainer and Wurzburg, Uwe, to Merck Patent Gesellschaft mit beschrankter Haftung. Process and reagent for the determination of α-amylase 4,698,300, 10-6-87, Cl. 435-18.000.

Henkel, Ernest H., Sr. Method and apparatus for filling bulk bags 4,703,782, 11-3-87, Cl. 141-65.000.

Henkel, Gunter, to N.V. Optimed. Method for manufacturing a spectacle lens for myopes. 4,640,587, 2-3-87, Cl. 350-432.000.

Henkel, James A.: *See—*
Moehling, Charles; and Henkel, James A., 4,637,319, Cl 105-207.000.

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Balk, Manfred, 4,652,391, Cl. 252-99.000.
Brockmann, Rolf; Jeromin, Lutz; Johannisbauer, Wilhelm; Meyer Helmut; Michel, Otto; and Plachenka, Juergen, 4,655,879, Cl 203-37.000.
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Disch, Karlheinz; Hachmann, Klaus; and Pagel, Juergen, 4,661,5 Cl. 514-635.000.
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Fischer, Herbert; Stritzke, Karl H.; Morlock, Roland; Jo Thomas C.; and Donovan, Joseph C., 4,636,265, Cl. 148-6.15
Gardenier, Karl-Josef; and Heimburger, Wolfgang, 4,645,537, 106-243.000.
Geke, Juergen; and Rutzen, Horst, 4,678,605, Cl. 252-547.000.
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Hase, Christian; Wegemund, Bernd; Erwied, Werner; and K pitz, Dieter, 4,668,711, Cl. 524-207.000.
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Hoefer, Rainer; Schmid, Karl-Heinz; and Wegemund, B 4,657,999, Cl. 526-200.000.
Hoefer, Rainer, 4,689,366, Cl. 524-724.000.
Hoeffkes, Horst; and Schrader, Dieter, 4,698,065, Cl. 8-406.0
Holdt, Bernd-Dieter; Menke, Ronald; Praus, Gerd; and Hassel Petra, 4,683,072, Cl. 252-102.000.
Hollenberg, Detlef; Cortekar, Hans-Wolfgang; Giede, Karl Hoffkes, Horst, 4,666,712, Cl. 424-71.000.
Jeromin, Lutz; Krings, Heinrich; Legel, Dieter; Novotny, R and Skrobek, Harald, 4,676,953, Cl. 422-106.000.
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Jeschke, Peter; Altenschoepfer, Theodor; Jacobs, Jochen; and Schumann, Klaus, 4,690,770, Cl. 252-99.000.

Kittscher, Peter; and Buecheler, Herbert, 4,700,857, Cl. 215-232.000.

Konrad, Gunther; Maak, Norbert; and Lieske, Edgar, 4,684,371, Cl. 8-408.000.

Krause, Horst-Jurgen; Syldatk, Andreas; and Sung, Eric, 4,648,984, Cl. 252-174.220.

Kruse, Hans; Koester, Klaus; Carduck, Franz-Josef; Wilsberg, Heinz-Manfred; and Puchta, Rolf, 4,642,197, Cl. 252-98.000.

Kuenzel, Werner, 4,648,510, Cl. 206-494.000.

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Lange, Fritz; and Meffert, Alfred, 4,650,865, Cl. 544-174.000.

Lepper, Herbert; and Friesenhagen, Lothar, 4,652,406, Cl. 260-410.90R.

Linde, Karl-Heinz; and Kloetzer, Dietrich, 4,675,128, Cl. 252-549.000.

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Moeller, Hinrich; and Wallat, Siegfried, 4,668,705, Cl. 514-718.000.

Moeller, Hinrich; and Wallat, Siegfried, 4,683,244, Cl. 514-568.000.

Moeller, Hinrich; and Wallat, Siegfried, 4,684,665, Cl. 514-543.000.

Moeller, Hinrich; and Zeidler, Ulrich, 4,705,682, Cl. 424-70.000.

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Oezelli, Riza N.; Hoffmann, Hans-Josef; and Kohlstadt, Hans-Peter, 4,670,057, Cl. 106-236.000.

Osberghaus, Rainer; and Kresse, Franz, 4,648,882, Cl. 8-142.000.

Osberghaus, Rainer; Brodalla, Dieter; Geissler, Roland; and Bossek, Harald, 4,661,170, Cl. 148-6.270.

Penninger, Josef, 4,636,359, Cl. 422-13.000.

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Pierr, Robert; Ritterbex, Horst; Jost, Frantisek; and Rommerskirchen, Hans J., 4,668,438, Cl. 260-400.000.

Piorr, Robert; Panthel, Guenter; Schmid, Karl H.; Colignon, Dietmar; Rommerskirchen, Hans J.; Schmidt, Wolfgang; and Ritterbex, Horst, 4,695,409, Cl. 260-400.000.

Ploog, Uwe; Busch, Peter; Hensen, Hermann; and Thiele, Klaus, 4,670,253, Cl. 424-70.000.

Reckziegel, Erich; and Holzapfel, Heinz, 4,692,370, Cl. 428-198.000

Ritter, Wolfgang, 4,638,092, Cl. 568-1.000.

Ritter, Wolfgang, 4,639,498, Cl. 526-196.000.

Ritter, Wolfgang, 4,675,433, Cl. 560-55.000.

Ritter, Wolfgang, 4,676,858, Cl. 156-307.300.

Rose, David; Maak, Norbert; and Lieske, Edgar, 4,698,066, Cl. 8-408.000.

Rossmann, Christian; Fluechter, Horst; Schreiber, Gerald; and Wichelhaus, Winfried, 4,695,396, Cl. 252-135.000.

Schaper, Ulf A.; Bloesl, Siegfried; and Bruns, Klaus, 4,661,286, Cl. 252-522.00R.

Schaper, Ulf-Armin; Streschnak, Benno; Bloesl, Siegfried; and Sommer, Walter, 4,652,401, Cl. 252-522.00R.

Schieferstein, Ludwig; Zeidler, Ulrich; and Hensen, Hermann, 4,650,602, Cl. 252-522.00R.

Schieferstein, Ludwig; Hollenberg, Detlef; and Maak, Norbert, 4,685,931, Cl. 8-406.000.

Schindler, Norbert; Nuesslein, Hans; Koeppelmann, Edgar; and Poethkow, Joerg, 4,704,212, Cl. 252-8.800.

Schinski, Erhard, 4,654,085, Cl. 106-93.000.

Schlueter, Kaspar; and Zoellner, Wolfgang, 4,650,596, Cl. 252-51.50R.

Schmid, Karl, 4,650,611, Cl. 260-410.90R.

Schmid, Karl; Stein, Werner; and Baumann, Horst, 4,671,900, Cl. 260-400.000.

Seiter, Wolfgang; Wegener, Ingo; and Reuter, Herbert, 4,661,281, Cl. 252-140.000.

Seiter, Wolfgang; Andree, Hans; and Berg, Markus, 4,675,124, Cl. 252-91.000.

Seiter, Wolfgang; and Koch, Otto, 4,707,290, Cl. 252-140.000.

Siegers, Hans-Peter; and Macke, Wilfried, 4,708,900, Cl. 428-74.000.

Soldanski, Heinz-Dieter; Holdt, Bernd-Dieter; and Meier, Ursula, 4,659,494, Cl. 252-88.000.

Stahl, Peter H.; and Schmitz, Beat, 4,639,338, Cl. 260-502.50C.

Stahl, Peter H.; and Schmitz, Beat, 4,711,880, Cl. 514-108.000.

Struve, Alfred; Upadek, Horst; and Geke, Juergen 4,705,666, Cl. 422-16.000.

Sung, Eric; Jeschke, Peter; Schumann, Klaus; and Altenschoepfer, Theodor, 4,692,260, Cl. 252-99.000.

Sustmann, Scarlet; and Marini, Ingo G., 4,634,438, Cl. 604-376.000.

Sustmann, Scarlet; and Marini, Ingo G., 4,675,014, Cl. 604-375.000.

Tesmann, Holger; Blum, Helmut; and Koester, Rita, 4,702,823, Cl. 209-166.000.

Tuerk, Erich; and Bucheler, Herbert, 4,653,672, Cl. 222-153.000.

Vier, Fritz; Schulenburg, Michael; and Wiese, Dietrich, 4,699,071, Cl. 110-345.000.

Vierkotter, Peter, 4,637,746, Cl. 401-82.000.

von Rybinski, Wolfgang; and Kleiner, Erna, 4,652,271, Cl. 44-51.000.

von Rybinski, Wolfgang; Tesmann, Holger; and Dobias, Bohuslav, 4,714,544, Cl. 209-167.000.

Weber, Rudolf; Pochandke, Winfried; Andree, Hans; and Anzinger, Hermann, 4,634,544, Cl. 252-99.000.

Willmund, Wolf-Dieter; Plapper, Jurgen; Pieper, Friedrich; and Heidrich, Jochen, 4,654,042, Cl. 8-94.220.

Wilsberg, Heinz-Manfred, 4,714,479, Cl. 8-137.000.

Worschech, Kurt; Loeffelholz, Frido; Wedl, Peter; and Wegemund, Bernd, 4,637,887, Cl. 252-56.00R.

Wuhrmann, Juan C.; Mueller, Heinz; Brands, Karl-Dieter; Asbeck, Adolf; and Heidrich, Jochen, 4,655,960, Cl. 252-321.000.

Wuhrmann, Juan C.; Mueller, Heinz; Brands, Karl-Dieter; Asbeck, Adolf; and Heidrich, Jochen, 4,655,961, Cl. 252-321.000.

Henkel, William K., to Bingold Ventures. Multiple card bingo game playing device. 4,651,995, 3-24-87, Cl. 273-237.000.

Henkell & Co.: *See—*

Weiss, Manfred, 4,681,767, Cl. 426-14.000.

Henken, Fritz, to Ford Motor Company. Clutch-pressure control valve. 4,648,423, 3-10-87, Cl. 137-494.000.

Henkin, Melvyn L.; and Laby, Jordan M. Hydrotherapy massage method and apparatus. 4,679,258, 7-14-87, Cl. 4-542.000.

Henkin, Melvyn L.; and Laby, Jordan M. Tap water powered hydrotherapy method and apparatus. 4,689,839, 9-1-87, Cl. 4-542.000.

Henkin, Melvyn L., and Laby, Jordan M. Hydrotherapy massage method and apparatus. 4,692,950, 9-15-87, Cl. 4-542.000.

Henkin, Melvyn L.; and Laby, Jordan M. Hydrotherapy massage method and apparatus. 4,715,071, 12-29-87, Cl. 4-542.000.

Henklein, Peter; Becker, Manfred; Buttner, Werner; Loth, Fritz; Dauzenberg, Horts; Forner, Klaus; Dolling, Rudolf; Graul, Karl-Heinz; Halatsch, Wolf-Rainer; and Rupprich, Christian, to Akademie Der Wissenschaften Der DDR. N-(chlorocarbonyloxy)-5-norbornene-2,3-dicarboximide, process for its production and its use. 4,714,768, 12-22-87, Cl. 548-435.000.

Henley Burrowes & Co. Ltd.: *See—*

Finch, Maurice, 4,702,746, Cl. 44-14.000.

Henley Group, Inc., The: *See—*

Patel, Ramanlal L., 4,697,473, Cl. 74-519.000.

Henley, John B., Sr. Shutter assembly with individually removable slats. 4,655,003, 4-7-87, Cl. 49-88.000.

Henley, Lester P., to Regdon Solenoid, Inc. Bi-stable electromagnetic actuator. 4,683,452, 7-28-87, Cl. 335-234.000.

Henley, Thomas: *See—*

Halterman, Diane; and Henley, Thomas, 4,707,273, Cl. 210-724.000.

Henlin, Dennis A., to Raytheon Company. CMOS subtractor. 4,709,346, 11-24-87, Cl. 364-784.000.

Henmi, Kojiro: *See—*

Saito, Masashi; Shimamura, Tsutau; Henmi, Kojiro; and Kyushima, Hiroki, 4,671,645, Cl. 355-3.00R.

Henmi, Yoshiyasu; Terada, Takashi; Suzuki, Masaru; and Ninomiya, Hiroshi, to Nippon Kayaku Kabushiki Kaisha. Etoposide soft capsules. 4,701,327, 10-20-87, Cl. 424-455.000.

Henn, Stefan, to Robert Krups Stiftung & Co. KG. Food processor with adapters for transmission of torque to rotary tools. 4,700,903, 10-20-87, Cl. 241-101.200.

Henn, Stefan: *See—*

Fuhner, Hubert; and Henn, Stefan, 4,669,672, Cl. 241-57.000.

Hennard, Jean: *See—*

Leroux, Alain; Fourtet, Jean P.; Hennard, Jean; and Trouillet, Andre, 4,642,018, Cl. 414-502.000.

Henne, Andreas; and Jacobi, Manfred, to BASF Aktiengesellschaft. Photopolmerizable mixtures containing tertiary amines as photoactivators. 4,666,952, 5-19-87, Cl. 522-14.000.

Henne, Heinrich; Patzelt, Norbert; and Alker, Karl-Heinz, to Krupp Polysius AG. Tube mill. 4,664,322, 5-12-87, Cl. 241-176.000.

Henne, Heinrich; Blasczyk, Gotthardt; Eickholt, Hubert; and Lohnherr, Ludger, to Krupp Polysius AG. Roller mill. 4,694,994, 9-22-87, Cl. 241-79.100.

Henne, Heinrich; Patzelt, Norbert; Schneider, Lutz T.; Knobloch, Osbert; and Muller, Manfred, to Krupp Polysius AG. Method and apparatus for the crushing of material. 4,709,864, 12-1-87, Cl. 241-167.000.

Henne, Herbert, to G.O. Stumpf GmbH & Co. KG. Cutting apparatus. 4,699,036, 10-13-87, Cl. 83-847.000.

Henne, Werner; and Pelger, Michael, to AKZO NV. Cleaning treatment for blood compartments of dialyzators. 4,673,506, 6-16-87, Cl. 210-636.000.

Henne, Werner: *See—*

Baurmeister, Ulrich; Brodowski, Walter; Diamantoglou, Michael; Dunweg, Gustav; Henne, Werner; Pelger, Michael; and Schulze, Helmut, 4,668,396, Cl. 210-500.290.

Gerlach, Klaus; Kessler, Erich; and Henne, Werner, 4,708,799, Cl. 210-500.230.

Henneberg, Peter: *See—*

Hager, Karl-Heinz; Henneberg, Peter; and Juranek, Hans-Joachim, 4,701,023, Cl. 350-321.000.

Henneberger, Gerd; Walter, Robert; Thomas, Rolf; Bechstein, Ernst; and Voss, Norbert, to Rowenta-Werke GmbH. Steam iron soleplate. 4,658,520, 4-21-87, Cl. 38-93.000.

Henneberger, Hans, to Siemens Aktiengesellschaft. Hearing aid. 4,680,799, 7-14-87, Cl. 381-68.600.

Henneberry, James W. Engine oil level indicator. 4,683,851, 8-4-87, Cl. 123-196.00S.

Hennebert, Pierre; Gillard, Jean; and Roland, Michel, to Universite Catholique de Louvain; and Manufacture Belge de Gembloux S.A. Sterilization method employing a circulating gaseous sterilant. 4,637,916, 1-20-87, Cl. 422-36.000.

Hennecke, Hans-Peter: *See—*

Bestek, Heinz; Ewald, Werner; Hennecke, Hans-Peter; Roeder, Alfred; and Schmitz, Friedrich, 4,636,379, Cl. 423-640.000.

Hennecke, Udo; Mittelstadt, Norbert; and Muller, Eberhard, to Heraeus Quarzschmelze GmbH. Radiant unit in the form of a portal, particularly for use as a drying and baking tunnel for the automobile industry. 4,662,086, 5-5-87, Cl. 34-229.000.

Henneke, Karl-Wilhelm; and Wedemeyer, Karlfried, to Bayer Aktiengesellschaft. Process for the preparation of substituted styrenes. 4,650,910, 3-17-87, Cl. 568-655.000.
Hennells, Ransom J., to Rantom, Inc. Combined check and exhaust valve for high pressure gas spring. 4,662,616, 5-5-87, Cl. 267-64.280.
Hennells, Ransom J., to Rantom, Inc. Gas spring. 4,664,362, 5-12-87, Cl. 267-119.000.
Hennen, Hans: *See—*
  Hundeck, Joachim; Scholz, Harald; Hennen, Hans; Kuxdorf, Bernhard; and Pusche, Herbert. 4,672,142, Cl. 570-247.000.
Hennen, John J.: *See—*
  Russ, Roger A.; and Hennen, John J., 4,696,432, Cl. 241-101.700.
Hennequin, Jean-Claude, to Essilor International (Compagnie Generale d'Optique). Device for detecting and/or measuring visual deficiencies. 4,714,330, 12-22-87, Cl. 351-239.000.
Hennequin, Yves, to Jaeger. Device for measuring the level or volume of liquid in a tank. 4,641,122, 2-3-87, Cl. 338-33.000.
Hennes, Jacques: *See—*
  Augendre, Claude; Rapidel, Jean-Loup; and Hennes, Jacques, 4,712,425, Cl. 73-460.000.
Hennessey, Albert. Non-weld casing centralizer. 4,688,636, 8-25-87, Cl 166-241.000.
Hennessey, James E., to Music People, Inc., The. Rear operated control device for guitar. 4,658,693, 4-21-87, Cl. 84-313.000.
Hennessey, Michael, to Energy Conversion Devices, Inc. Erasure means. 4,667,309, 5-19-87, Cl. 365-113.000.
Hennessy, Arnold, to AHED Research and Development Inc. Toilet flushing apparatus. 4,707,868, 11-24-87, Cl. 4-362.000.
Hennessy, James J., to Hennessy Products, Inc. Safety design newspaper insert cart. 4,648,613, 3-10-87, Cl. 280-79.10A.
Hennessy, James W.; Angel, Henry R.; and Carlson, Richard A., to Nova Celltrak, Inc. Count accuracy control means for a blood analyses system. 4,706,207, 11-10-87, Cl. 364-555.000.
Hennessy, Michael K., to Hennessy Products, Inc. Newspaper vending machine. 4,654,513, 3-31-87, Cl. 235-381.000.
Hennessy Products, Inc.: *See—*
  Hennessy, James J., 4,648,613, Cl. 280-79.10A.
  Hennessy, Michael K., 4,654,513, Cl. 235-381.000.
Hennig, Horst, to Lever Brothers Company. Folding carton with a pouring opening. 4,657,174, 4-14-87, Cl. 229-17.00R
Hennig, Karl: *See—*
  Messmer, Karlheinz; Hennig, Karl; Denzinger, Walter; Hettche, Albert; Trieselt, Wolfgang; and Raubenheimer, Hans-Juergen, 4,670,524, Cl. 526-88.000.
Hennig, Kurt, to Gebr. Hennig GmbH. Cover arrangement. 4,693,388, 9-15-87, Cl. 220-8.000.
Hennig, Kurt: *See—*
  Schneider, Barbara; Hennig, Kurt; and Klein, Manfred. 4,638,722, Cl. 92-42.000.
Henniger, Peter W.: *See—*
  Verweij, Jan; Grootveld, Herman H.; Hirs, Henri G. J.; Van Veen, Gerardus J., Kalter, Jan; and Henniger, Peter W., 4,695,627, Cl. 540-224.000.
Henning Berlin GmbH: *See—*
  Gadow, Andre ; and Wood, W. Graham, 4,657,873, Cl. 436-532.000.
Henning Berlin GmbH Chemie-und Pharmawerk: *See—*
  Gadow, Andre; and Wood, W. Graham, 4,645,646, Cl. 422-61.000.
Henning, Georg: *See—*
  Lotsch, Wolfgang; and Henning, Georg, 4,645,539, Cl. 106-288.00Q.
Henning, John C., to Product Investment Incorporated. Container for hanger-supported garments. 4,678,079, 7-7-87, Cl. 206-279.000.
Henning, John C., to Product Investment Incorporated. Safety closure. 4,690,292, 9-1-87, Cl. 215-201.000.
Henning, Michael L.; and Langston, Robert J., to Plessey Overseas Limited. Optical sensing systems. 4,653,916, 3-31-87, Cl. 356-345.000.
Henning, Rainer; and Urbach, Hansjorg, to Hoechst Aktiengesellschaft. Disubstituted proline derivatives. 4,684,662, 8-4-87, Cl. 548-452.000.
Henning, Rainer; and Urbach, Hansjorg, to Hoechst Aktiengesellschaft. Process for the preparation of monocyclic, bicyclic and tricyclic aminoacids. 4,691,022, 9-1-87, Cl. 548-408.000.
Henning, Rainer: *See—*
  Urbach, Hansjorg; Henning, Rainer; Teetz, Volker; Wissman, Hans; and Becker, Reinhard, 4,668,797, Cl. 548-452.000.
  Urbach, Hansjorg; Henning, Rainer; Teetz, Volker; and Becker, Reinhard, 4,714,708, Cl. 514-412.000.
Henning, Wolfgang; Meckel, Walter; Beck, Ulrich; Baumgen, Heinz; and Konig, Joachim, to Bayer Aktiengesellschaft. Aqueous solutions or dispersions of polyisocyanate addition products, a process for their preparation, and their use as coating compounds or as sizing agents for paper. 4,670,100, 6-2-87, Cl. 162-135.000.
Henninger, Stephen R., to Fuller Company. Flow control valve. 4,671,310, 6-9-87, Cl. 137-242.000.
Hennings, David; and Manoukian, Nubar, to Coherent, Inc. Attenuating beam splitter. 4,711,526, 12-8-87, Cl. 350-170.000.
Hennings, Detlev; Schnell, Axel; and Schreinemacher, Herbert, to U.S. Philips Corporation. Method of manufacturing voltage-dependent resistor. 4,692,289, 9-8-87, Cl. 264-61.000.
Henningsen, Tom; and Gould, Theresa A., to Westinghouse Electric Corp. Apparatus for the controlled transmission of light. 4,693,545, 9-15-87, Cl. 350-96.120.
Hennink, Wilhelmus E.: *See—*
  Feijen, Jan; and Hennink, Wilhelmus E., 4,634,762, Cl. 530-350.000.
  Feijen, Jan; and Hennink, Wilhelmus E., 4,678,671, Cl. 424-443.000.
Hennion, Christine: *See—*
  Fraleux, Jean; Hennion, Christine; Mora, Marie H.; and Ploix, Jean L., 4,643,689, Cl. 445-3.000.
Hennion, Claude: *See—*
  Lewiner, Jacques; and Hennion, Claude, 4,672,376, Cl. 340-825.310
  Lewiner, Jacques; and Hennion, Claude, 4,678,897, Cl. 235-436.000
  Lewiner, Jacques; and Hennion, Claude, 4,692,762, Cl. 340-825.690
Hennix i Stockholm AB: *See—*
  Grundstedt, Peter; and Taube, Bill, 4,678,018, Cl. 160-135.000.
Hennon, Erin D.; and Keller, Thomas J., to Dana Corporation. Bearing cap assembly. 4,710,038, 12-1-87, Cl. 384-569.000.
Hennuy, Jean; and Seguret, Rene , to SEB S.A. Distributor for a vaporizer and steam diffuser. 4,671,461, 6-9-87, Cl. 239-306.000.
Hennuy, Jean; and Seguret, Rene , to SEB S.A. Heater clamping arrangement for electrically heated boilers. 4,700,050, 10-13-87, Cl. 219-438.000.
Hennuy, Jean-Pierre; and Bontoux, Daniel, to Seb S.A. Water injection device for a steam iron. 4,669,207, 6-2-87, Cl. 38-77.500.
Henny Penny Corporation: *See—*
  Gordon, Jerry D., 4,686,896, Cl. 99-482.000.
Heno, Claude: *See—*
  Rault, Michel; and Heno, Claude, 4,707,849, Cl. 379-28.000.
Henri, Denis R. Container for truck platform. 4,705,317, 11-10-87, Cl. 296-37.600.
Henri, Leonard; and Seigneurin, Michel, to Micro-Mega S.A. Precision injection system and method for intraligmental anesthesia. 4,710,17 12-1-87, Cl. 604-209.000.
Henri, Rene: *See—*
  Blanc, Michel; Pollard, Jean; Marchand, Gerard; and Henri, Rene, 4,697,867, Cl. 350-96.100.
Henrich, Hans-Otto; and Rienecker, Reimund, to J. M. Voith GmbH. Fibrous suspension pressurized sorter. 4,710,287, 12-1-87, Cl. 209-270.000.
Henrick, Clive A., to Sandoz Ltd. Novel compositions. 4,647,698, 3-3-87, Cl. 564-256.000.
Henrick, Clive A., to Sandoz Ltd. Novel compositions. 4,661,617, 4-28-87, Cl. 560-61.000.
Henrick, Clive A., to Sandoz Ltd. Carbamic and carbamothioic acid esters as pesticides. 4,697,033, 9-29-87, Cl. 558-233.000.
Henrickson, Larry K.; and Huntington, Dorothy A. Method and means for processing speech. 4,661,981, 4-28-87, Cl. 381-31.000.
Henriksson, Bengt-Ake, to Telefonaktiebolaget L M Ericsson. Tractor mechanism for printers. 4,678,109, 7-7-87, Cl. 226-74.000.
Henriksson, Jukka, to Oy Nokia AB. Method for the reception and detection of digital signals. 4,700,366, 10-13-87, Cl. 375-100.000.
Henriksson, Kjell, to Baby Bjorn Aktiebolag. Baby chair. 4,650,246, 3-17-87, Cl. 297-250.000.
Henriksson, Stig R., to Atlas Copco Aktiebolag. Hydraulically operated percussive machine and an accumulator therefor. 4,676, 6-30-87, Cl. 173-116.000.
Henrion, Romain: *See—*
  Denier, Guy; and Henrion, Romain, 4,690,386, Cl. 266-44.000.
  Denier, Guy; and Henrion, Romain, 4,696,456, Cl. 266-44.000.
Henriquez, Theodore A., to United States of America, Navy. Underwater acoustic pressure release baffle for depths to 2000 feet. 4,674,595, 6-23-87, Cl. 181-286.000.
Henry, Allan F.: *See—*
  Bernard, John A.; Henry, Allan F.; Lanning, David D.; and Kwok, Kwan S., 4,710,341, Cl. 376-216.000.
Henry, Antoine: *See—*
  Anzola, Michel; Lefevre, Daniel; Massicot, Patrick; Pierre, Jacques; and Henry, Antoine, 4,673,585, Cl. 427-6.000.
Henry, Arnold W., to Xerox Corporation. Fusing member for electrostatographic reproducing apparatus. 4,711,818, 12-8-87, Cl. 428-421.000.
Henry, Arnold W.: *See—*
  Finn, Patrick J.; Glover, Linda M.; Henry, Arnold W.; and Lux, Adalbert A., 4,659,621, Cl. 428-339.000.
Henry, Daniel: *See—*
  Catala, Gerard; Stowe, Ian; and Henry, Daniel, 4,703,427, Cl. 364-422.000.
Henry, Daniel P.; LaTorre, Fredrick E.; and Pope, Willard I. Educational board game. 4,714,255, 12-22-87, Cl. 273-249.000.
Henry, David P.: *See—*
  Bowsher, Ronald R.; and Henry, David P., 4,649,107, Cl. 435-15.000.
Henry Dreyfuss Associates: *See—*
  Conner, James M.; Harden, Daniel K.; and Genaro, Donald M., 4,648,867, Cl. 604-14.000.
  Ryan, James M.; Golden, Sanford S.; and Sliker, Larry, 4,678,229, Cl. 297-68.000.
Henry Filters, Inc.: *See—*
  Harms, Eugene H., 4,655,940, Cl. 210-805.000.
  Harms, Eugene H., 4,715,964, Cl. 210-783.000.
Henry Ford Hospital: *See—*
  Horowitz, Bruce S., 4,697,575, Cl. 128-1.200.
  Horowitz, Bruce S., 4,706,652, Cl. 128-1.200.
  Levin, Nathan W.; and Zasuwa, Gerard A., 4,710,164, C 604-66.000.
Henry, Herbert W. Disposal kit. 4,715,495, 12-29-87, Cl. 206-223.000
Henry, James E.: *See—*
  Anderson, Robert J.; Keener, Harold M.; and Henry, James E 4,671,251, Cl. 126-99.00R.
  Anderson, Robert J.; Keener, Harold M.; and Henry, James E 4,676,733, Cl. 431-7.000.

Henry, Jean-Pierre; and Pelenc, Lionel, to Aerospatiale Societe Nationale Industrielle. Mechanism for the automatic extension of an appendage of a space vehicle performing a rotary movement on itself. 4,703,907, 11-3-87, Cl. 244-173.000.

Henry, Jean-Yves, to Commissariat a l'Energie Atomique. Process for the preparation of bismuth germanate of formula $Bi_4Ge_3O_{12}$. 4,650,659, 3-17-87, Cl. 423-593.000.

Henry, John T. Pipe laying apparatus. 4,682,912, 7-28-87, Cl. 405-154.000.

Henry, Kenneth J.; and Kotwicki, Allan J., to General Motors Corporation. Emulation system for a motor vehicle drivetrain. 4,680,959, 7-21-87, Cl. 73-117.000.

Henry Mann, Inc.: *See—*
Furuya, Harumi, 4,677,732, Cl. 29-563.000.

Henry, Michael: *See—*
Broom, Walter E.; Henry, Michael; and Schaffer, William J., 4,669,076, Cl. 369-77.100.

Henry, Michael W., to Tocco, Inc. Induction heating device with improved locking mechanism for slidable inductors. 4,700,036, 10-13-87, Cl. 219-10.570.

Henry, Paul S., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Timing recovery circuit. 4,704,722, 11-3-87, Cl. 375-120.000.

Henry, Pearison W.: *See—*
Rush, James B.; Bryan, James S.; Gunter, Jonas L.; Dillard, Guy W.; Meadows, Roger D.; and Henry, Pearison W., 4,637,638, Cl. 285-158.000.
Rush, James B.; Bryan, James S.; Gunter, Jonas L.; Diliard, Guy W.; Meadows, Roger D.; and Henry, Pearison W., 4,6[illegible]4,942, Cl. 29-157.00T.

Henry, Raymond; Heitzmann, Michel; and Sillard, Gilles, to Thomson-CSF. Pin diode switch mounted in a ridge waveguide. 4,660,008, 4-21-87, Cl. 333-258.000.

Henry, Richard D. Basic flight instrument. 4,638,660, 1-27-87, Cl. 73-178.00R.

Henry, Richard D. Trustworthy bank and angle of attack indicator. 4,669,303, 6-2-87, Cl. 73-178.00R.

Henry, Richard D. Trustworthy simplified vacuum systems. 4,705,233, 11-10-87, Cl. 244-1.00R.

Henry, Richard T.: *See—*
Martin, Timothy J., Jr.; and Henry, Richard T., 4,693,394, Cl. 222-1.000.
Martin, Timothy J., Jr.; and Henry, Richard T., 4,711,259, Cl. 134-166.00R.

Henry, Ronald A.: *See—*
Richter, Herbert P.; Henry, Ronald A.; and Johnson, Joseph H., 4,655,969, Cl. 252-700.000.

Henry, Susanne: *See—*
Iha, Kiyoshi; and Henry, Susanne, 4,653,565, Cl. 160-193.000.

Henry Valve Company: *See—*
Krause, Richard J.; Gugala, Zbigniew H.; and Shah, Madhukant A., 4,683,057, Cl. 210-232.000.

Henry, Vince M.: *See—*
Betro, Joseph N.; Smith, George F.; and Henry, Vince M., 4,671,188, Cl. 108-56.300.

Henry, Yves; Nicollet, Andre; and Villard, Michel, to Thomson - CSF. Process of manufacturing a photosensitive device having a plurality of detectors separated by zones impervious to the radiation to be detected. 4,665,609, 5-19-87, Cl. 29-572.000.

Hens, Carolus M-Th. L.: *See—*
Verhoeven, Constant T.; and Hens, Carolus M-Th. L., 4,657,464, Cl. 414-31.000.

Hens, Jozef E.: *See—*
Janssens, Frans E.; Torremans, Joseph L. G.; Hens, Jozef E.; and Van Offenwert, Theophilus T. J. M., 4,695,569, Cl. 514-258.000.

Hens, Jozef F.: *See—*
Janssens, Frans E.; Torremans, Joseph L. G.; Hens, Jozef F.; and Van Offenwert, Theophilus T. J. M., 4,634,704, Cl. 514-253.000.
Janssens, Frans E.; Kennis, Ludo E. J.; Hens, Jozef F.; Torremans, Joseph L. G.; and Diels, Gaston S. M., 4,695,575, Cl. 514-322.000.

Hens, Peter: *See—*
Ball, Wilfried; Stelzer, Heinz; Ritzl, Fritz; Siebold, Hermann; Hens, Peter; and Hautmann, Edmund, 4,676,524, Cl. 280-75.600.

Henschel, Claude: *See—*
Bose, Debasis; Datta, Amitava; DeCristofaro, Nicholas J.; and Henschel, Claude, 4,650,725, Cl. 428-668.000.
Bose, Debasis; Datta, Amitava; DeCristofaro, Nicholas J.; and Henschel, Claude, 4,701,356, Cl. 427-423.000.
Bose, Debasis; Datta, Amitava; DeCristofaro, Nicholas J.; and Henschel, Claude, 4,701,357, Cl. 427-423.000.

Henschel, Edward W. Form-retaining insert for caps. 4,637,077, 1-20-87, Cl. 2-185.00B.

Henschen, Agnes: *See—*
Teschemacher, Hansjorg; Brantl, Victor; Henschen, Agnes; and Lottspeich, Friedrich, 4,681,871, Cl. 514-15.000.

Henschenmacher, Helmut: *See—*
Ecker, Karl-Heinz; and Henschenmacher, Helmut, 4,655,362, Cl. 220-260.000.

Henschke, Robert W.: *See—*
Mongeon, Robert J.; Wayne, Robert J.; and Henschke, Robert W., 4,716,444, Cl. 356-05.000.

Henschler, Detlef: *See—*
Pohler, Manfred; Henschler, Detlef; and Wittig, Richard, 4,675,874, Cl. 372-33.000.

Hense, Ulrich: *See—*
Kruger, Volker; and Hense, Ulrich, 4,698,794, Cl. 367-83.000.

Hensel, Hartmut; and Dallmann, Hermann, to Hoechst Aktiengesellschaft. Abrasion-resistant, copolyester carrier film for magnetic information media. 4,687,699, 8-18-87, Cl. 428-213.000.

Hensel, Hartmut; and Dallmann, Hermann, to Hoechst Aktiengesellschaft. Abrasion-resistant polyester carrier film for magnetic information media. 4,687,700, 8-18-87, Cl. 428-213.000.

Hensel, John C.; Levi, Anthony F. J.; and Tung, Raymond T., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Method of producing a silicide/Si heteroepitaxial structure, and articles produced by the method. 4,707,197, 11-17-87, Cl. 437-189.000.

Hensel, Robert J., to Brunswick Corporation. Closed end fuel injection system. 4,699,109, 10-13-87, Cl. 123-458.000.

Hensel, Robert J.; Wagner, James L.; Hundertmark, James M.; Sheridan, Stephen E.; and Heidel, David W., to Brunswick Corporation. Low profile internally packaged fuel injection system for two cycle engine. 4,702,202, 10-27-87, Cl. 123-52.00M.

Hensel, Werner, to Saab-Scania Aktiebolag. Arrangement for increasing the body width at wheel housings of a vehicle. 4,715,648, 12-29-87, Cl. 296-198.000.

Hensen, Helmuth: *See—*
Kupper, Wilhelm; and Hensen, Helmuth, 4,634,065, Cl. 242-18.00R.
Kupper, Wilhelm; and Hensen, Helmuth, 4,651,865, Cl. 198-468.200.
Kupper, Wilhelm; and Hensen, Helmuth, 4,697,692, Cl. 198-464.300.

Hensen, Hermann: *See—*
Ploog, Uwe; Busch, Peter; Hensen, Hermann; and Thiele, Klaus, 4,670,253, Cl. 424-70.000.
Schieferstein, Ludwig; Zeidler, Ulrich; and Hensen, Hermann, 4,650,602, Cl. 252-522.00R.

Hensens, Otto D.: *See—*
Wilson, Kenneth E.; Monaghan, Richard L.; DeRiso, Cheryl; Zimmerman, Sheldon B.; Hensens, Otto D.; Flor, James E.; Del Val, Sagrario M.; and Fernandez, Maria I. M., 4,681,846, Cl. 435-124.000.

Hensiek, Benjamin E., to Binkley Company, The. Roof bow. 4,660,882, 4-28-87, Cl. 296-104.000.

Hensing, Johannes M. M.: *See—*
Bianchi, Vittorio; Hensing, Johannes M. M.; and Munnig Schmidt, Robert H., 4,700,090, Cl. 310-36.000.

Henslee, Walter W.; Morrow, Stanley J.; and Lindsey, John S., to Dow Chemical Company, The. Magnesium aluminum spinel in light metal reduction cells. 4,648,954, 3-10-87, Cl. 204-243.00R.

Hensler, Adolf, to Koflach Sportgerate Gesellschaft. Process for producing cushionings for ski boots, in particular for the production of inner boots of ski boots. 4,657,609, 4-14-87, Cl. 156-70.000.

Hensler, Adolf, to Koflach Sportgerate Gesellschaft. Ski boot. 4,685,225, 8-11-87, Cl. 36-117.000.

Hensler, Paul L.; Kelso, Frederick J.; Wolfe, Gary E.; and Zeh, Peter H., to FMC Corporation. Production of Phase II sodium tripolyphosphate. 4,656,019, 4-7-87, Cl. 423-315.000.

Hensley, Albert L.: *See—*
Beaton, William I.; Hensley, Albert L.; and Evans, April J., 4,657,665, Cl. 208-216.00R.
Beaton, William I.; Hensley, Albert L.; and Evans, April J., 4,707,466, Cl. 502-313.000.
Evans, April J.; and Hensley, Albert L., 4,657,664, Cl. 208-211.000.

Hensley, Donald E.: *See—*
Smith, Michael L.; and Hensley, Donald E., 4,700,778, Cl. 166-250.000.

Hensley, Donald G.: *See—*
Goehner, Robert D.; Glover, Norman I.; and Hensley, Donald G., 4,678,144, Cl. 244-134.00R.

Hensley, Howard L. Portable desk and article carrying structure for use with shopping carts. 4,643,280, 2-17-87, Cl. 190-11.000.

Hensley, John J.: *See—*
Cederwall, Philip J.; Evans, David M.; Glezer, Boris; and Hensley, John J., 4,668,162, Cl. 415-115.000.

Hensley, Robert C., to Temp-Vent Corporation. Housing for foundation ventilator. 4,699,045, 10-13-87, Cl. 98-37.000.

Hensley, Robert P., to Secom General Corp. Wire tap detection device. 4,634,813, 1-6-87, Cl. 379-6.000.

Henslin, Frederick L.; and Perkins, Clarence. Splitting tool. 4,682,417, 7-28-87, Cl. 30-294.000.

Henson, Edward: *See—*
Gallop, Paul M.; Henson, Edward; and Fluckiger, Rudolf, 4,713,346, Cl. 436-86.000.

Henson, Edwin R.; and Courtwright, Joel G., to Dow Chemical Company, The. Use of phenyloxazoles as corrosion inhibitors. 4,663,121, 5-5-87, Cl. 422-12.000.

Henson, Robert M.; and Cartheuser, Kent H., to J. W. Harris Company. Solder composition. 4,670,217, 6-2-87, Cl. 420-562.000.

Henson, Robert M.: *See—*
Ballentine, Richard E.; and Henson, Robert M., 4,695,428, Cl. 420-561.000.

Hentges, Steven G.: *See—*
Evans, Morris L.; and Hentges, Steven G., 4,677,176, Cl. 526-290.000.

Henthorn, Clyde E. Golf ball and tee setter. 4,714,250, 12-22-87, Cl. 273-32.500.

Henton, David E., to Dow Chemical Company, The. ABS compositions having trimodal rubber particle distributions. 4,713,420, 12-15-87, Cl. 525-236.000.

Hentschel, Karl-Heinz; Kussi, Siegfried; and Botsch, Hansjurgen, to Bayer Aktiengesellschaft. Preparation and use of sulphur-containing polyether urethanes. 4,666,618, 5-19-87, Cl. 252-47.000.

Hentschel, Volker, to Hochtief Aktiengesellschaft vorm Gebr Helfmann. Apparatus for the construction of tunnels and shafts. 4,640,646, 2-3-87, Cl. 405-141.000.

Hentschel, Volker, to Hochtief Ag Vorm. Gebr. Helfmann. Movable form front for a tunnel-lining form. 4,645,378, 2-24-87, Cl. 405-146.000.

Henych, Ivo; and Pavlovsky, Rudolf, to Georg Fischer Aktiengesellschaft. Process of and ingot mould casting arrangement for casting a melt. 4,655,273, 4-7-87, Cl. 164-323.000.

Henych, Ivo: *See—*

Fehr, Kurt; Henych, Ivo; and Pavlovsky, Rudolf, 4,666,133, Cl. 266-216.000.

Gut, Karl; and Henych, Ivo, 4,657,588, Cl. 420-20.000.

Henze, Christopher P., to Sperry Corporation. Digital power converter input current control circuit. 4,678,984, 7-7-87, Cl. 323-285.000.

Henze, Siegfried: *See—*

Bierbaum, Joe; Henze, Siegfried; Mussig, Karl; and Ziegler, Hans, 4,682,555, Cl. 112-262.100.

Henze, Wilfried: *See—*

Michel, Wolfgang; Paul, Heinz; Kostler, Dieter; Wilhelm, Frank; Rummel, Andreas; Scher, Gero; Henze, Wilfried; Hander, Ralf; Heinemann, Jurgen; and Osowski, Manfred, 4,652,430, Cl. 422-142.000.

Henzi, Beat, to Sandoz Ltd. Monoazo compounds having an imidazolium-2 group linked through an azo radical to a substituted phenyl group. 4,687,842, 8-18-87, Cl. 534-607.000.

Henzler, Martin, to Leybold-Heraeus GmbH. System for deflecting a beam of charged particles. 4,639,602, 1-27-87, Cl. 250-396.00R.

Henzler, Rolf: *See—*

Maier, Peter; Hansel, Gernot; Henzler, Rolf; Walter, Hartmut; and Arnold, Gunter, 4,665,617, Cl. 30-174.000.

Hepburn, George R., to Dynasplints Systems, Inc. Adjustable splint and securing means therefor. 4,657,000, 4-14-87, Cl. 128-88.000.

Hepburn, James; and Malashenko, Leon, to John T. Hepburn, Limited. Hydraulic press without conventional side slabs and cross-head. 4,694,744, 9-22-87, Cl. 100-214.000.

Hepfer, Rolf; and Kieninger, Rudolf, to Joseph Kieninger Uhrenfabrik GmbH. Clock with mechanical drive. 4,641,975, 2-10-87, Cl. 368-124.000.

Hepko, Samuel. High efficiency performance kinetic occlude system with rotary valve. 4,682,572, 7-28-87, Cl. 123-80.0BB.

Hepler, Edward L.: *See—*

Brahm, David J.; Grimm, James M.; Hepler, Edward L.; and Schan, Edward P., Jr., 4,713,834, Cl. 379-24.000.

Hepler, Jacque P. Insulation board for attachment to walls. 4,653,246, 3-31-87, Cl. 52-787.000.

Hepp, Leonard R., to General Electric Company. Flame retarded polyester molding composition with improved electrical performance. 4,636,544, 1-13-87, Cl. 524-411.000.

Hepp, Leonard R., to General Electric Company. Glass fiber reinforced polyester molding compositions containing metal powders. 4,684,686, 8-4-87, Cl. 524-281.000.

Hepp, Leonard R., to General Electric Company. Glass fiber reinforced polyester molding compositions containing metal salts. 4,687,802, 8-18-87, Cl. 524-411.000.

Hepp, Wolfgang; Forssmann, Bernd; Brendel, Walter; and Chaussy, Christian, to Dornier System GmbH. Delineating and limiting the zone of shock waves for therapeutic purposes. 4,655,205, 4-7-87, Cl. 128-132.00R.

Hepp, Wolfgang; Heine, Gerold; Wess, Othmar; and Marlinghaus, Ernst, to Dornier System GmbH. Alleviating pain during extracorporal lithotripsy. 4,662,375, 5-5-87, Cl. 128-328.000.

Hepp, Wolfgang; Restle, Karl-Heinz; van Rijn, Dick; and Wess, Othmar, to Dornier System GmbH. Lithotripsy system having locating and orienting apparatus. 4,669,483, 6-2-87, Cl. 128-660.000.

Hepp, Wolfgang: *See—*

Chaussy, Christian; Hepp, Wolfgang; van Rijn, Dick; and Forssmann, Bernd, 4,705,026, Cl. 128-24.00A.

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Glover, John B., 4,711,473, Cl. 285-235.000.

Hepworth, Mark N.: *See—*

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Leibhard, Erich; and Herb, Armin, 4,656,806, Cl. 52-704.000.

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Hacker, Hermann; Ivanovski, Pavle; and Herber, Peter, 4,667, Cl. 34-9.000.

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Herbert, John M. Apparatus for preparing frozen drinks. 4,681 7-21-87, Cl. 99-484.000.

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Czauderna, Klaus, 4,676,079, Cl. 68-242.000.

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Kaiser, Albrecht; and Schaublin, Hans-Jurg, 4,645,558, 156-583.100.

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Herbert, Victor. Assay for vitamin B12 deficiency. 4,680,273, 7-14-87, Cl. 436-92.000.

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Heinrich, Siegfried; Heitzmann, Rudolf; and Shafik, Ahmed, 4,647,645, Cl. 528-45.000.

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Bogdan, Wolfgang; Patzschke, Hans-Peter; and Schlimsog, Hans-Jurgen, 4,659,445, Cl. 204-151.100.

Engelborn, Reiner; Ambrosius, Klaus; Graetz, Hans-Joachim; and Lersch, Manfred, 4,668,570, Cl. 428-324.000.

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Reinehr, Ulrich; and Herbertz, Toni, 4,650,624, Cl. 264-143.000.

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Herborg, Karlheinz: *See*—

Moschner, Erich; Gruber, Engelbert; and Herborg, Karlheinz, 4,651,196, Cl. 33-552.000.

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Herbst, Ralph L., Jr. Process for producing hydrogen from short wavelength electromagnetic radiation. 4,637,867, 1-20-87, Cl. 204-157.520.

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Hemseth, Harald; and Herbst, Thomas, 4,711,604, Cl. 405-260.000.

Spang, Konrad; Herbst, Thomas; and Kellner, Utz, 4,652,179, Cl. 405-260.000.

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Hercules Incorporated: *See*—

Bard, John K., 4,680,076, Cl. 156-307.900.

Berta, Dominic A., 4,672,091, Cl. 525-88.000.

Bither, Peter G., 4,680,223, Cl. 428-290.000.

Bloothoofd, William, 4,638,758, Cl. 118-412.000.

Byrne, Brian, 4,697,025, Cl. 556-183.000.

Chi, Minn-Shong, 4,670,068, Cl. 149-19.400.

Chu, Sung G.; Jabloner, Harold; and Swetlin, Brian J., 4,656,208, Cl. 523-400.000.

Clayton, Anthony B.; and Kramer, Brian D., 4,675,210, Cl. 427-208.200.

Comfort, Theodore F., 4,659,402, Cl. 149-19.400.

Craig, Daniel H., 4,659,771, Cl. 524-700.000.

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Daughenbaugh, Norman E., Jr., 4,701,517, Cl. 528-205.000.

Durkee, Susan C., 4,657,703, Cl. 260-104.000.

Durkee, Susan C., 4,657,706, Cl. 260-104.000.

Fifield, Charles C.; Mayes, Richard T.; Tate, Marilyn; and Varnell, Daniel F., 4,686,171, Cl. 430-273.000.

Gelman, Robert A., 4,650,716, Cl. 428-402.000.

Gelman, Robert A.; and Hawkins, Eleanor C., 4,689,408, Cl. 536-98.000.

Goss, Raymond W., 4,640,953, Cl. 524-476.000.

Hemsath, Klaus H.; and Fu, Beng-I, 4,693,015, Cl. 34-41.000.

Herring, Liles G., 4,663,065, Cl. 252-62.000.

Jabloner, Harold; Swetlin, Brian J.; and Chu, Sung G., 4,656,207, Cl. 523-400.000.

Jabloner, Harold, 4,678,823, Cl. 524-62.000.

Jones, Marvin L., 4,689,097, Cl. 149-21.000.

Klosiewicz, Daniel W., 4,657,981, Cl. 525-211.000.

Klosiewicz, Daniel W., 4,664,984, Cl. 428-516.000.

Klosiewicz, Daniel W., 4,699,963, Cl. 526-142.000.

Kraus, Wayne A., 4,710,408, Cl. 427-393.500.

Leach, Douglas R., 4,708,969, Cl. 521-82.000.

Leibee, Bruce K.; and Modrak, James P., 4,662,759, Cl. 366-2.000.

Lundy, Brian T., 4,647,078, Cl. 285-149.000.

Martin, Andrea E., 4,696,985, Cl. 526-119.000.

Marvel, John B., Sr.; and Modrak, James P., 4,663,370, Cl. 523-221.000.

Maslanka, William W., 4,708,772, Cl. 162-164.300.

Matlack, Albert S., 4,703,098, Cl. 526-283.000.

Messer, Wayne R., 4,666,824, Cl. 430-325.000.

Messer, Wayne R., 4,698,286, Cl. 430-17.000.

Nahm, Steven H., 4,689,380, Cl. 526-283.000.

Nguyen, Tuyen T., 4,703,068, Cl. 521-150.000.

Nickol, Robert G., 4,707,189, Cl. 106-176.000.

Policelli, Frederick J., 4,649,980, Cl. 138-109.000.

Reid, Donald E., 4,692,380, Cl. 428-349.000.

Roach, Donald J., 4,680,248, Cl. 430-270.000.

Sand, Michael L., 4,678,684, Cl. 427-213.360.

Sanderson, Thomas F., 4,643,847, Cl. 260-97.700.

Tise, Frank P., 4,659,648, Cl. 430-272.000.

Tom, Glenn M., 4,659,552, Cl. 423-219.000.

Tom, Glenn M., 4,661,575, Cl. 526-283.000.

Tom, Glenn M., 4,696,953, Cl. 521-146.000.

Tom, Glenn M., 4,716,181, Cl. 521-53.000.

Hercules Machinery Corporation: *See*—

Jinnings, John W.; and Jinnings, Orrin H., 4,634,311, Cl. 404-93.000.

Herculite Protective Fabrics Corporation: *See*—

Von Kohorn, Henry; and Kydonieus, Agis F., 4,639,393, Cl. 428-304.400.

Von Kohorn, Henry; and Kydonieus, Agisa F., 4,666,767, Cl. 428-304.400.

Herczeg, Julius-Ludwig; Lenhard, Martin; and Fluckiger, Ernst, to Gurit-Worbla AG. Method of producing a scratch resistant coating on a sheet of thermoplastic material. 4,680,198, 7-14-87, Cl. 427-164.000.

Herczfeld, Peter R.: *See*—

Rosen, Arye; and Herczfeld, Peter R., 4,675,624, Cl. 333-161.000.

Herd, David P., to Smith International, Inc. Pressure-balanced gate for split-gate valve. 4,685,655, 8-11-87, Cl. 251-282.000.

Herd, Harold H.; Jacobowitz, Lawrence; and Shaw, Jane M., to International Business Machines Corporation. Method of fabricating photopolymer isolation trenches in the surface of a semiconductor wafer. 4,665,010, 5-12-87, Cl. 430-330.000.

Herd, Josef: *See*—

Thomas, Hermann; Herd, Josef; and Jakob, Hans, 4,671,154, Cl. 83-698.000.

Herd, Karl J.; and Machna, Martin, to Bayer Aktiengesellschaft. Aminonaphthol bisazo reactive dyes. 4,638,054, 1-20-87, Cl. 534-637.000.

Herd, Karl J.; and Schundehutte, Karl H., to Bayer Aktiengesellschaft. Process for producing 2,4,5,6-tetrachloropyrimidine by way of 5,6-dichloro-2,4-dihydroxypyrimidine which was produced from the corresponding 5,6-dichloro-2,4-di(trihalomethyl)-pyrimidine and a process for producing 2,4-dihydroxypyrimidine derivatives. 4,659,827, 4-21-87, Cl. 544-299.000.

Herd, Karl J.: *See*—

Wunderlich, Klaus; Harms, Wolfgang; Herd, Karl J.; and Jager, Horst, 4,665,179, Cl. 544-76.000.

Herd, Richard S.: *See*—

Piotrowski, Alfred B.; and Herd, Richard S., 4,661,277, Cl. 252-51.50A.

Herd, William H., Jr.; and Hansen, John W., to Pollution Controls Industries, Inc. Fuel control system for a carburetor. 4,663,090, 5-5-87, Cl. 261-41.300.

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Herdeg, Karl: *See*—

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Herden, Werner; and Saggau, Boye, to Robert Bosch GmbH. Spark plug for an internal combustion engine, having a pilot breakdown gap. 4,636,690, 1-13-87, Cl. 315-58.000.

Herden, Werner, to Robert Bosch GmbH. Method and apparatus for igniting a combustible mixture, especially gasoline-air in the combustion chamber of an internal combustion engine. 4,653,459, 3-31-87, Cl. 123-637.000.

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Herder, Michael D.; and Lambers, Howard J., to Pneumo Corporation. Fluid control valves with angled metering ports. 4,646,786, 3-3-87, Cl. 137-625.690.

Herdin, Gunther, to Steyr-Daimler-Puch AG. Fuel injection nozzle for internal combustion engines. 4,641,621, 2-10-87, Cl. 123-446.000.

Herdin, Gunther: *See—*
  Freudenschuss, Otto; Herdin, Gunther; Schmidt, Harald; and Schreiner, Emerich, 4,715,541, Cl. 239-533.400.

Herdman, Charles W. Shoe lace knot retainer. 4,715,094, 12-29-87, Cl. 24-119.000.

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Hereth, Michael R.; and Martin, Patricia A., to Wang Laboratories, Inc. Pseudo-static memory subsystem. 4,710,903, 12-1-87, Cl. 365-194.000.

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Herfeld, Friedrich W. Mixing device. 4,671,666, 6-9-87, Cl. 366-197.000.

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Hergenroeder, Patrick T. Receptacle for collecting fluids. 4,679,590, 7-14-87, Cl. 137-602.000.

Hergenrother, Paul M.; and Havens, Stephen J., to United States of America, National Aeronautics and Space Administration. Ethynyl terminated ester oligomers and polymers therefrom. 4,638,083, 1-20-87, Cl. 560-104.000.

Hergenrother, Paul M.; Bass, Robert G.; Sinsky, Mark S.; and Connell, John W., to United States of America, National Aeronautics and Space Administration. Polyenamines from aromatic diacetylenic diketones and diamines. 4,663,483, 5-5-87, Cl. 564-396.000.

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Hergeth, Adolph; Lucassen, Gunter; and Pinto, Akiva, to Hergeth Hollingsworth, GmbH. Process and apparatus for feeding fiber material. 4,715,722, 12-29-87, Cl. 366-132.000.

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  Hergeth, Adolph; Lucassen, Gunter; and Pinto, Akiva, 4,715,722, Cl. 366-132.000.
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  Pinto, Akiva; and Lucassen, Guenter, 4,661,025, Cl. 406-70.000.
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Hergeth, Hubert A. Fiber-bale mill. 4,687,147, 8-18-87, Cl. 241-101.00A.

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Hering, Reinhard F. Weather-resistant lignocellulose or other organic or inorganic material boards and process for their production. 4,690,848, 9-1-87, Cl. 428-74.000.

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  Breyer, Karl; and Tesar, Roland, 4,707,278, Cl. 251-122.000.
  Maisch, Dieter, 4,714,007, Cl. 92-88.000.
  Ruchser, Erich, 4,685,383, Cl. 92-88.000.

Heritage, Jonathan P.; and Weiner, Andrew M., to Bell Communications Research, Inc. Shaping optical pulses by amplitude and phase masking. 4,655,547, 4-7-87, Cl. 350-162.120.

Herke, Donald P.: *See—*
  Bauer, Theodore J.; Herke, Donald P.; Bork, Edward A.; and Lawson, William E., 4,680,442, Cl. 219-121.0LG.

Herkert, Hans; and Timmermann, Uwe, to Siemens Aktiengesellschaft. Method and apparatus for transmission of data with data reduction. 4,698,628, 10-6-87, Cl. 340-825.020.

Herkert, Roland: *See—*
  Senske, Wilhelm; Herkert, Roland; Marschall, Norbert; and Greeb, Karl-Heinrich, 4,713,311, Cl. 430-127.000.

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Herlein, Richard F., to Fairchild Semiconductor Corporation. Formatter for high speed test system. 4,635,256, 1-6-87, Cl. 371-1.000.

Herlein, Richard F.; Davis, Jeffrey A.; and Cotriss, E. James, to Fairchild Semiconductor Corporation. Method and apparatus for dynamically controlling the timing of signals in automatic test systems. 4,675,562, 6-23-87, Cl. 307-602.000.

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  Paerisch, Jochen; Herlemann, Werner; Sweigart, Gerhard; Jardin, Hans; and Lutz, Alfons, 4,702,518, Cl. 296-217.000.
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  Yip, Kwok-Leung; Antos, Ronald L.; and Herloski, Robert P. 4,686,542, Cl. 346-108.000.

Herlyn, Meehard: *See—*
  O'Brien, Thomas G.; Pegg, Anthony E.; and Herlyn, Meehar 4,637,984, Cl. 435-240.000.

Hermach, Carl J., to Publishers Equipment Corporation. Conversion letterpress to offset printing. 4,677,911, 7-7-87, Cl. 101-218.000.

Herman, Alan C.: *See—*
  Bente, H. Bryan; Herman, Alan C.; Myerson, Joel; Shaw, Benjam G.; and Stefanski, Andrew, 4,714,545, Cl. 210-101.000.

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Herman C. Starck Berlin: *See—*
  Lutz, Reinhold; Wendt, Helgo, deceased; Meinhardt, Helm Eschnauer, Heinz; and Lugscheider, E., 4,671,932, C 420-452.000.

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  Burgess, Lester E.; Hagstrom, Robert G.; Herman, David E.; an McGarry, Phillip E., 4,671,801, Cl. 44-51.000.
  McGarry, Phillip E.; Herman, David E.; Treskot, Robert A.; an Fistner, David C., Sr., 4,650,567, Cl. 209-166.000.

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  D'Alessio, Michael S.; Sandler, Stanley A.; Smith, Gary; and Herman, Gerald, 4,671,382, Cl. 182-128.000.

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Herman, John; and Chirico, George, to Perkin-Elmer Corporation The. Apparatus for identifying the connection position of a wi having two modes of operation. 4,698,585, 10-6-87, Cl. 324-66.000.

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Herman, Kenneth W. Precision, fully controlled, metering blade po tioning system. 4,656,577, 4-7-87, Cl. 364-167.000.

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  Beard, Michael D., 4,671,481, Cl. 248-222.100.
  Kelley, James O., 4,685,255, Cl. 52-36.000.
  Kurrasch, Andrew J., 4,650,143, Cl. 248-188.400.
  Pettinga, Frederic R.; and Goodman, Steve F., 4,679,368, C 52-36.000.
  Stevens, Charles J., 4,652,050, Cl. 297-300.000.

Herman, Ralph B., to Plessey Overseas Limited. Adaptive line hybrids 4,677,666, 6-30-87, Cl. 379-392.000.

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  Lidow, Alexander; and Herman, Thomas, 4,705,759, C 437-29.000.

Herman, Udo: *See—*
  Goller, Ernst; Herman, Udo; Muller, Adam; and Walker, Fri 4,703,630, Cl. 66-64.000.

Hermann, Adam, to Siemens Aktiengesellschaft. Appliance for releas able fastening of a cooling member to an integrated modul 4,660,123, 4-21-87, Cl. 361-386.000.

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  Behr, Hans, 4,667,878, Cl. 239-125.000.
  Schweiker, Werner, 4,693,664, Cl. 414-735.000.

Hermann Berstorff Maschinenbau GmbH: *See—*
  Anders, Dietmar, 4,642,039, Cl. 425-140.000.
  Capelle, Gerd, 4,653,994, Cl. 425-131.100.

  - Capelle, Gerd, 4,680,152, Cl. 264-40.400.
  - Chszaniecke, Siegfried, 4,643,661, Cl. 425-204.000.
  - Heise, Wolfgang, 4,655,703, Cl. 425-335.000.
  - Heise, Wolfgang, 4,699,050, Cl. 100-168.000.
  - Herbert, Adolf, 4,693,855, Cl. 264-40.700.
  - Orth, Herbert, 4,649,631, Cl. 29-700.000.
  - Stockmeyer, Hans, 4,676,943, Cl. 264-288.400.
  - Voigt, Jurgen, 4,710,113, Cl. 425-67.000.
- Hermann, Dietmar; and Brodmann, Richard, to Continental Gummi-Werke Aktiengesellschaft. Elastomeric profiled strip for sealingly enclosing windowpanes. 4,668,556, 5-26-87, Cl. 428-122.000.
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- Hermann, Dietmar: *See*—
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  - Bernitz, Bernhard; Brodmann, Richard; and Hermann, Dietmar, 4,698,193, Cl. 264-171.000.
- Hermann, George D.: *See*—
  - Johnston, James H.; Hermann, George D.; and Atagi, Tanya A., 4,709,698, Cl. 128-303.120.
- Hermann, Gunther: *See*—
  - Kolbl, Heinz; Gompper, Rudolf; Behrenz, Wolfgang; Hammann, Ingeborg; Homeyer, Bernhard; and Hermann, Gunther, 4,647,581, Cl. 514-475.000.
- Hermann, Hans D.: *See*—
  - Fock, Kurt; Hermann, Hans D.; Fabian, Klaus; and Ebigt, Joachim, 4,663,235, Cl. 428-437.000.
- Hermann Hemschedit Maschinenfabrik GmbH & Co.: *See*—
  - Krieger, Karl; and Reinelt, Werner, 4,694,730, Cl. 91-170.0MP.
- Hermann Hemscheidt Maschinenfabrik GmbH & Co.: *See*—
  - Krieger, Karl; and Reinelt, Werner, 4,676,698, Cl. 405-302.000.
  - Kuster, Willi; Krieger, Karl; and Reinelt, Werner, 4,660,595, Cl. 137-494.000.
- Hermann Heye: *See*—
  - Schneider, Wilhelm, 4,701,203, Cl. 65-265.000.
- Hermann, Joachim: *See*—
  - Schneider, Horst; and Hermann, Joachim, 4,656,920, Cl. 89-16.000.
- Hermann, John T., to Chrysler Motors Corporation. Hose connector. 4,635,966, 1-13-87, Cl. 285-3.000.
- Hermann, John T., to Chrysler Motors Corporation. Quick hose connector. 4,640,535, 2-3-87, Cl. 285-158.000.
- Hermann, Jurgen, to Divetronic AG. Simulation device. 4,664,635, 5-12-87, Cl. 434-365.000.
- Hermann, Kenneth W., to North American Philips Consumer Electronics Corp. Two-piece mounting brackets and method for applying them to cathode ray tubes. 4,668,993, 5-26-87, Cl. 358-248.000.
- Hermann Koeniger, Firma: *See*—
  - Koeniger, Martin, 4,697,382, Cl. 47-66.000.
- Hermann, Linda M.: *See*—
  - Oloff, Clarence M.; Hermann, Linda M.; Moss, William G.; and Sims, Steven R., 4,653,509, Cl. 128-749.000.
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- Hermann, Peter: *See*—
  - Schleuniger, Kurt; and Hermann, Peter, 4,691,576, Cl. 73-821.000.
- Hermann Pfauter GmbH & Co.: *See*—
  - Faulstich, Hans L.; and Muller, Wolfgang, 4,657,447, Cl. 409-12.000.
  - Faulstich, Ingo; and Ulbrich, Dieter, 4,708,544, Cl. 409-12.000.
- Hermann, Rudolph J., Jr. Self-lubricating member with strip pattern. 4,668,104, 5-26-87, Cl. 384-13.000.
- Hermann, Thomas L.: *See*—
  - Granzow, Robert H.; Richard, Harold S.; and Hermann, Thomas L., 4,645,153, Cl. 248-178.000.
- Hermann, Udo: *See*—
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- Hermann Wagner GmbH & Co. KG: *See*—
  - Borel, Georg, 4,702,952, Cl. 428-193.000.
- Hermann, Waldemar: *See*—
  - Bucher, Hans; Heinrich, Richard; Hermann, Waldemar; and Seffer, Hans-Werner, 4,650,196, Cl. 277-152.000.
- Hermann Wangner GmbH & Co., KG: *See*—
  - Borel, Georg, 4,649,074, Cl. 428-222.000.
  - Borel, Georg, 4,676,369, Cl. 198-853.000.
- Hermann, Wilhelm G.: *See*—
  - Clasen, Rolf; and Hermann, Wilhelm G., 4,684,387, Cl. 65-18.400.
  - Clasen, Rolf; and Hermann, Wilhelm G., 4,689,066, Cl. 65-18.100.
- Hermanns, Ferdinand-Josef, to W. Schlafhorst & Co. Method and device for avoiding the formation of irregular turns during the winding of a cross-wound coil. 4,696,435, 9-29-87, Cl. 242-18.100.
- Hermanns, Heinrich: *See*—
  - Gierse, Franz-Josef; Hermanns, Heinrich; Lupnitz, Gerhard; Pabst, Manfred; and Schlicht, Heribert, 4,646,402, Cl. 26-86.000.
- Hermanns, Martin J., to Dana Corporation. Torque limiting device. 4,651,847, 3-24-87, Cl. 180-245.000.
- Hermans, Robert J.: *See*—
  - Ebbing, Steven J.; Hermans, Robert J.; Vicari, John J.; and Beneditz, Bruce D., 4,635,441, Cl. 60-450.000.
- Hermansson, Hans, to Celleco AB. Rotary disc filter with peripheral cake supports. 4,648,970, 3-10-87, Cl. 210-327.000.
- Hermansson, Mats: *See*—
  - Persbeck, Sven-Erik, 4,690,091, Cl. 114-221.00A.
- Hermecz, Istvan: *See*—
  - Meszaros, Zoltan; Knoll, Jozsef; Hermecz, Istvan; Szentmiklosi, Peter; Horvath, Agnes; Vasvari nee Debreczy, Lelle; Kovacs, Gabor; Gyires, Klara; and Virag, Sandor, 4,666,912, Cl. 514-258.000.
  - Szuts, Tamas; Szentmiklosi, Peter; Lengyel, Jozsef; Hermecz, Istvan; Vasvari nee Debreczy, Lelle; Horvath, Agnes; Kereszturi, Geza; Kovacs, Gabor; Horvath, Gabor; and Marmarosi nee Kellner, Katalin, 4,670,440, Cl. 514-254.000.
- Hermens, Joannes L. G., to U.S. Philips Corporation. Integrated radiation detector. 4,678,918, 7-7-87, Cl. 250-374.000.
- Hermens, Richard A.; Kendall, Jack B.; and Partridge, Jerry A., to Advanced Nuclear Fuels Corporation. Recovery of uranium from solutions. 4,668,482, 5-26-87, Cl. 423-15.000.
- Hermes Precisa International S.A.: *See*—
  - Costa, Jorge; and Reichel, Wolfgang, 4,637,601, Cl. 271-160.000.
  - Costa, Jorge, 4,647,232, Cl. 400-120.000.
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- Hermida, Felipe U. Last-case for cleaning footwear. 4,710,997, 12-8-87, Cl. 15-268.000.
- Hermkens, Gerardus A. J.; and Lambregts, Augustinus W. M., to Oce-Nederland B.V. Device for collating sheets. 4,660,824, 4-28-87, Cl. 271-208.000.
- Hermkens, Gerardus A. J., to Oce-Nederland B.V. Conveyor system for copier. 4,688,931, 8-25-87, Cl. 355-3.0SH.
- Hermolin, Joshua; and Kampf, Arieh, to Bromine Compounds Ltd. Process for the manufacture of mixtures of 3-phenoxybenzyl bromide and 3-phenoxybenzal bromide. 4,709,100, 11-24-87, Cl. 568-639.000.
- Hermsdorf, Horst: *See*—
  - Hulsmann, Hans L.; Pass, Reinhard; and Hermsdorf, Horst, 4,643,850, Cl. 260-410.700.
- Hermstad, Jon: *See*—
  - Olsen, Olav; and Hermstad, Jon, 4,674,919, Cl. 405-226.000.
- Hernandez, Celimo P.: *See*—
  - King, Ken R.; and Hernandez, Celimo P., 4,636,744, Cl. 330-295.000.
- Hernandez, Eduardo F. D., to Instituto Nacional de Sistemas Automatizados Y'Technicas de Computacion. Circuit analyzer for measuring pulse repetition rate and pulse width. 4,675,597, 6-23-87, Cl. 324-73.00R.
- Hernandez, Gabriel D., to Maraven, S.A. Blowout preventer for use in combination with a deep well pump. 4,637,458, 1-20-87, Cl. 166-68.000.
- Hernandez, Genaro C. Method and apparatus for applying powdered substances on farm fields, forrests and swamp areas. 4,696,430, 9-29-87, Cl. 239-8.000.
- Hernandez, Irene H.; McCaskill, Rex A.; and Barker, Barbara A., to International Business Machines Corporation. Document creation. 4,663,615, 5-5-87, Cl. 340-721.000.
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- Hernandez, Irene H.; Himelstein, Carol S.; and Wang, John S., to International Business Machines Corporation. Method of editing graphic objects in an interactive draw graphic system using implicit editing actions. 4,686,522, 8-11-87, Cl. 340-709.000.
- Hernandez, Irene H.: *See*—
  - Barker, Barbara A.; Hernandez, Irene H.; and McCaskill, Rex A., 4,674,040, Cl. 364-300.000.
  - Barker, Barbara A.; Hernandez, Irene H.; and McCaskill, Rex A., 4,698,624, Cl. 340-709.000.
  - Barker, Barbara A.; and Hernandez, Irene H., 4,703,321, Cl. 340-747.000.
  - Barker, Barbara A.; and Hernandez, Irene H., 4,714,918, Cl. 340-724.000.
- Hernandez, Jean R., to Black & Decker Inc. System for charging sets of rechargeable batteries. 4,672,292, 6-9-87, Cl. 320-2.000.
- Hernandez, Jorge M., to Rogers Corporation. Decoupling capacitor for surface mounted chip carrier. 4,658,327, 4-14-87, Cl. 361-306.000.
- Hernandez, Jorge M.; and Gilderdale, Aleta, to Rogers Corporation. Decoupling capacitor for pin grid array package. 4,667,267, 5-19-87, Cl. 361-306.000.
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- Hernandez, Jose L. Electrical wall bracket. 4,638,963, 1-27-87, Cl. 248-56.000.
- Hernandez, Kenneth J., to Manville Corporation. Wrap-around carrier with improved handle. 4,681,217, 7-21-87, Cl. 206-141.000.
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- Hernandez, Paul M.; and Petersen, Curtis R., to S. C. Johnson & Son, Inc. Thickener compositions for water-based hydraulic and metalworking fluid compositions. 4,636,326, 1-13-87, Cl. 252-77.000.
- Hernandez, Richard A.: *See*—
  - Diaz, Arthur F.; and Hernandez, Richard A., 4,643,948, Cl. 428-422.000.
- Hernandez, Rosalio A. Cooking vessel with an inner heat conductive jacket and the like. 4,714,012, 12-22-87, Cl. 99-444.000.
- Hernandez-Ruiz, Jose E.: *See*—
  - Lazcano-Navarro, Arturo; Alcantara, Miguel A.; and Hernandez-Ruiz, Jose E., 4,693,274, Cl. 137-625.400.

Hernandez, William: *See—*
  Logan, David J.; Wood, Kenneth O.; Hernandez, William; and Edwards, Richard L., 4,711,035, Cl. 33-200.000.

Hernden, Bradley W. Fishing lure breakaway clip. 4,696,121, 9-29-87, Cl. 48-17.200.

Herndon, Gerald F., to Boeing Company, The. Molded ejection seat having an integrated rocket motor assembly. 4,655,417, 4-7-87, Cl. 244-122.00A.

Herndon, Gerald F., to Boeing Company, The. Apparatus for adjustably mounting an ejection seat in an aircraft. 4,667,901, 5-26-87, Cl. 244-122.0AC.

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Herndon, Gerald F., to Boeing Company, The. Torso restraint with in flight and ejection activation modes. 4,667,904, 5-26-87, Cl. 244-122.00R.

Herndon, Michael T.: *See—*
  Johanson, Robert H.; Montgomery, Raymond M.; Herndon, Michael T.; and Peterson, Edward C., 4,715,086, Cl. 15-339.000.

Herndon, Troy H.: *See—*
  Rountree, Robert N.; and Herndon, Troy H., 4,692,781, Cl. 357-23.130.

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Hernestam, Sven E. H.; Nilsson, Nils A.; and Willard, Lars-Olof, to AB Ferrosan. Morpholino compounds and compositions. 4,636,382, 1-13-87, Cl. 424-54.000.

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Herngren, Torbjorn: *See—*
  Andersson, Susanne; Gustafsson, Jan-Erik; Herngren, Torbjorn; Carlsson, Staffan; and Hage, Gunnar, 4,683,841, Cl. 122-22.000.

Hernicz, Ralph S., to Miles Laboratories, Inc. Readhead with reduced height sensitivity. 4,659,229, 4-21-87, Cl. 356-446.000.

Hernqvist, Karl G., to RCA Corporation. Electron gun having cylindrical focus lens. 4,634,924, 1-6-87, Cl. 313-414.000.

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  Sutton, David W., 4,648,298, Cl. 83-62.000.

Heroguelle, Yves. Devices for the galvanic recovery of metals from diluted solutions. 4,643,819, 2-17-87, Cl. 204-269.000.

Herold, Claus-Peter: *See—*
  Anzinger, Hermann; Fischer, Herbert; Herold, Claus-Peter; and Zoellner, Wolfgang, 4,668,733, Cl. 524-572.000.

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Herold, Stanley J.: *See—*
  Seubert, John G.; Beasly, Kevin G.; Herold, Stanley J.; and Laswell, John E., 4,674,407, Cl. 102-293.000.

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  Merrem, Hans J.; Klug, Rudolf; and Herold, Thomas, 4,701,300, Cl. 430-196.000.

Herold, Wolf-Dietrich, to ESPE Stiftung & Co. Produktions- und Vertriebs KG. Container for dispensing dental compositions. 4,674,661, 6-23-87, Cl. 222-386.000.

Herold, Wolfgang: *See—*
  Stolz, Hermann; and Herold, Wolfgang, 4,653,156, Cl. 24-33.00R.

Herolf, Knut O. M.: *See—*
  Bergstrom, Bo C.; and Herolf, Knut O. M., 4,716,573, Cl. 375-1.000.

Heron, David: *See—*
  Shinitzky, Meir; Heron, David; and Samuel, David, 4,677,099, Cl. 514-78.000.

Heron, John T.: *See—*
  Amos, Leonard J.; and Heron, John T., 4,658,728, Cl. 102-501.000.

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  Dudeck, David H., 4,713,907, Cl. 43-42.390.

Heron, Roger A.: *See—*
  Fisher, Martin J.; Heron, Roger A.; and Hughes, Martin L., 4,663,966, Cl. 73-61.00R.

Herr, Dean S.: *See—*
  Groff, Gordon S.; and Herr, Dean S., 4,671,456, Cl. 236-44.00A.

Herr, Dieter, to BASF Aktiengesellschaft. Increasing the enteral absorbability of heparin or heparinoids. 4,656,161, 4-7-87, Cl. 514-56.000.

Herr, Herbert W., to Deere & Company. Adjustable steering stop. 4,660,845, 4-28-87, Cl. 280-95.00R.

Herr, Klaus-Dieter, to Helmut Hund K.G. Safety circuit for vehicle electromotive window lifts. 4,686,598, 8-11-87, Cl. 361-31.000.

Herr, Leroy E.; Shea, Allan K.; and Kunkle, Timothy E., to White Consolidated Industries, Inc. Quarter turn valve. 4,712,768, 12-15-87, Cl. 251-305.000.

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Herr, Richard W. Latch mechanism for boat accessories. 4,637,492, 1-20-87, Cl. 182-93.000.

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Herre, Gerd: *See—*
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Herrell, John M. Tooth replacement. 4,695,254, 9-22-87, 433-213.000.

Herren, Blair: *See—*
  Van Alstine, James M.; Harris, J. Milton; Shafer, Steve; Sny Robert S.; and Herren, Blair, 4,690,749, Cl. 204-299.00R.

Herrera, Jose; and Wurgler, Brian S., to Allsteel Inc. Grommet arrang ment for office furniture desk tops. 4,688,491, 8-25-87, Cl. 108-50.0

Herrera, Michael J.: *See—*
  Aldridge, Robert E.; Elloway, Russell; Fritz, William O.; Ge Ralph D.; and Herrera, Michael J., 4,636,140, Cl. 414-786.00
  Aldridge, Robert E.; Elloway, Russell; Fritz, William O.; Ge Ralph D.; and Herrera, Michael J., 4,684,863, Cl. 318-599.00
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  Rogers, Richard B.; and Herrero, Maria P., 4,636,514, C 514-340.000.
  Rogers, Richard B.; and Herrero, Maria P., 4,701,207, C 71-92.000.
  Rogers, Richard B.; and Herrero, Maria P., 4,701,463, C 514-333.000.
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Herrgord, Donald E. Lightweight multi-panel display. 4,710,0 12-8-87, Cl. 40-605.000.

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Herrig, Friedhelm, to E.C.H. Will (GmbH & Co.). Method and appa tus for subdividing webs of coherent paper sheets. 4,669,344, 6-2- Cl. 83-27.000.

Herring, Charles. Emergency exit for a personnel chamber. 4,679, 7-14-87, Cl. 52-204.000.

Herring, Donald E.; and Gross, Raymond J., to Mattel, Inc. Busy b child's toy. 4,645,471, 2-24-87, Cl. 446-258.000.

Herring, Donald E.; and Wang, Lawrence C., to Mattel Inc. Tra formable toy block and hinge therefor. 4,673,373, 6-16-87, 446-378.000.

Herring, Gary D.: *See—*
  Ashford, James D.; Eastlack, James K.; Herring, Gary D.; a Wilson, William N., 4,662,448, Cl. 166-290.000.

Herring, James M., Jr., to Budd Company, The. Elastomeric mem having flexible woven material bonded thereto in a railway tr primary suspension system. 4,712,488, 12-15-87, Cl. 105-224.100.

Herring, John D. Safety device for vehicles. 4,688,824, 8-25-87, 280-762.000.

Herring, Joseph C.: *See—*
  Anders, Frank W.; Herring, Joseph C.; and White, Douglas 4,656,463, Cl. 340-572.000.

Herring, Liles G., to Hercules Incorporated. Elastomer insula compositions for rocket motors. 4,663,065, 5-5-87, Cl. 252-62.00

Herring, Steven W., to Alpha Therapeutic Corporation. Isolation human plasma procoagulant protein factor VIII from biolog factors. 4,675,385, 6-23-87, Cl. 530-383.000.

Herringa, Donald: *See—*
  Conner, John P.; Mitchell, Terry; Miller, Craig; Vander K David L.; and Herringa, Donald, 4,660,905, Cl. 312-195.00

Herrington, Fox J., to Mobil Oil Corporation. Substantially friction universal connecting device. 4,640,640, 2-3-87, Cl. 403-57.000.

Herrington, Fox J., to Mobil Oil Corporation. Intermittently transla draw tape stretched between nip rolls. 4,650,451, 3-17-87, 493-190.000.

Herrington, Fox J., to Mobil Oil Corporation. Making interm orientation draw tape for bags. 4,654,021, 3-31-87, Cl. 493-211.0

Herrington, Fox J., to Mobil Oil Corporation. Intermittently stretc thermoplastic with nip rolls. 4,654,180, 3-31-87, Cl. 264-288.800.

Herrington, Fox J., to Mobil Oil Corporation. Rotary tube punc arrangement and method for punching holes into a moving material. 4,656,900, 4-14-87, Cl. 83-24.000.

Herrington, Fox J., to Mobil Oil Corporation. Method of alig fastener elements on a folded web and device for implementin method. 4,666,423, 5-19-87, Cl. 493-394.000.

Herrington, Fox J., to Mobil Oil Corporation. Movable clamp or for draw tape. 4,684,359, 8-4-87, Cl. 493-211.000.

Herrington, Fox J., to Mobil Oil Corporation. Screw extruder with a rotatable barrel section. 4,708,617, 11-24-87, Cl. 425-135.000.

Herrington, Fox J., to Mobil Oil Corporation. Apparatus for producing machine-direction heat seals. 4,714,454, 12-22-87, Cl. 493-193.000.

Herrington, Fox J., to Mobil Oil Corporation. Hem folder with integral tape inserter for making draw tape bags. 4,714,455, 12-22-87, Cl. 443-225.000.

Herrington, Fox J.: *See*—
Grosz, Edward G.; and Herrington, Fox J., 4,693,152, Cl. 83-24.000.

Herrington, Richard A.; and Burgess, Ken L. Wireless cursor control system. 4,654,648, 3-31-87, Cl. 340-710.000.

Herrington, Richard A.; Kleman, Thomas G.; and Apolinar, Ermelinda A., to Libbey-Owens-Ford Company. Abrasive fluid jet cutting support. 4,656,791, 4-14-87, Cl. 51-410.000.

Herrington, Richard A.; Kleman, Thomas G.; and Apolinar, Ermelinda A., to Libbey-Owens-Ford Co. Cutting strengthened glass. 4,702,042, 10-27-87, Cl. 51-321.000.

Herrington, Richard A.; Kleman, Thomas G.; and Apolinar, Ermelinda A., to Libbey-Owens-Ford Co. Ultra-high pressure abrasive jet cutting of glass. 4,703,591, 11-3-87, Cl. 51-321.000.

Herrington, Richard A.; Kleman, Thomas G.; and Apolinar, Ermelinda A., to Libbey-Owens-Ford Co. Abrasive fluid jet radius edge cutting of glass. 4,711,056, 12-8-87, Cl. 51-410.000.

Herrington, Richard A.: *See*—
Callies, Gerald A.; Albach, Eberhard R.; Connar, John F.; and Herrington, Richard A., 4,661,351, Cl. 427-255.000.

Herrity, Kenneth R.: *See*—
Ferguson, Frank W.; and Herrity, Kenneth R., 4,684,343, Cl. 434-308.000.

Herrli, Peter, to Contempo Products, P. Herrli. Shut-off and severing device. 4,676,476, 6-30-87, Cl. 251-9.000.

Herrmann, Christoph, to Huels Aktiengesellschaft. Process for the production of low-molecular weight homo- and/or copolymers of 1,3-dienes carrying hydroxymethyl groups partially esterified with formic acid. 4,670,518, 6-2-87, Cl. 515-332.800.

Herrmann, Eggert, to Weld-Equip b.v. Device for soldering an element to a print plate. 4,648,543, 3-10-87, Cl. 228-6.200.

Herrmann, Franz: *See*—
Tannhaeuser, Rolf; and Herrmann, Franz, 4,692,920, Cl. 371-27.000.

Herrmann, Gerhard: *See*—
Brandenstein, Manfred; Edelmann, Ludwig; Haas, Roland; Herrmann, Gerhard; and Hans, Rudiger, 4,643,700, Cl. 474-112.000.

Herrmann, Gero, to Dyckerhoff & Widmann Aktiengesellschaft. Closed ring-shaped reinforcing member for a concrete structure. 4,694,623, 9-22-87, Cl. 52-223.001.

Herrmann, Guenter: *See*—
Hartig, Juergen; Herrmann, Guenter; and Lucas, Ekhart, 4,704,476, Cl. 568-342.000.

Herrmann, Gunter; Lohr, Hans-Gunter; and Mozzi, Josef W., to Lohr & Herrmann GmbH. Process and apparatus for peeling a protective film from an exposed photoresist coating on a printed circuit board. 4,685,991, 8-11-87, Cl. 156-344.000.

Herrmann, Herbert: *See*—
Schwebel, Adolph; and Herrmann, Herbert, 4,693,463, Cl. 271-236.000.

Herrmann, Jochem; and Pelgrom, Marcellinus J. M., to U.S. Philips Corporation. Image enhancement circuit. 4,700,229, 10-13-87, Cl. 358-166.000.

Herrmann, Johann, to Sachsenwerk AG. Partitioned switching panel with insertable switching carriage and adjustable shutter mechanism. 4,713,501, 12-15-87, Cl. 200-50.0AA.

Herrmann, John L., Jr.: *See*—
Christiansen, Robert G.; Bell, Malcolm R.; Herrmann, John L., Jr.; and Opalka, Chester J., Jr., 4,684,636, Cl. 514-176.000.

Herrmann, Manfred: *See*—
Satzinger, Gerhard; Hartenstein, Johannes; Mannhardt, Karl; Kleinschroth, Jurgen; Herrmann, Manfred; Fritschi, Edgar; Tauschel, Horst-Dietmar; Wagner, Bernd; and Wolf, Gunter, 4,698,341, Cl. 514-230.000.

Herrmann, Rudolf: *See*—
Ziegler, Gerhard; Gregotsch, Karl; and Herrmann, Rudolf, 4,680,493, Cl. 310-62.000.

Herrmann, Rupert: *See*—
Kuhr, Manfred; Machat, Rudolf; Weckerle, Wolfgang; Batz, Hans-Georg; Herrmann, Rupert; Kleemann, Wolfgang; and Buschek, Herbert, 4,668,622, Cl. 435-14.000.

Herrmann, Ursula: *See*—
Srock, Rainer; Herrmann, Ursula; and v. Rotberg, Bernhard, 4,679,820, Cl. 280-781.000.

Herrmann, Wolfgang; and Satzinger, Gerhard, to Warner-Lambert Company. Process for the manufacture of racemic (R,R; S,S) asocainol. 4,649,196, 3-10-87, Cl. 540-479.000.

Herrmeyer, Dennis C., to Rigid Form, Inc. Latch for pickup truck cover doors and the like. 4,695,083, 9-22-87, Cl. 292-241.000.

Herrmidifier Company, Inc.: *See*—
Groff, Gordon S.; and Herr, Dean S., 4,671,456, Cl. 236-44.00A.

Herrnkind, Wolfgang; Itzenhauser, Reinhard; and Kosfeld, Gerhard, to Messer Griesheim GmbH. Filier containing easily oxidizable elements. 4,663,244, 5-5-87, Cl. 428-564.000.

Herrnring, Gunther, to Montblanc-Simplo GmbH. Ink supply system for writing instruments which operate with liquid ink. 4,634,305, 1-6-87, Cl. 401-151.000.

Herrnring, Gunther, to Montblanc-Simplo GmbH. Ink supply system with tube pump. 4,708,506, 11-24-87, Cl. 401-151.000.

Herro, Harvey M.: *See*—
Hunt, Barry E.; Herro, Harvey M.; Lee, Kyu-Hwa; and Mindick, Morris, 4,683,035, Cl. 204-1.00T.

Herrold, Paul R.: *See*—
Funk, Mark R.; Herrold, Paul R.; and Nohzawa, Toru, 4,648,069, Cl. 364-900.000.

Herron, Denver A., to Eastman Kodak Company. Continuous ink jet printer. 4,636,808, 1-13-87, Cl. 346-75.000.

Herron, Howard W.: *See*—
Crus, Richard A.; Haderle, Donald J.; and Herron, Howard W., 4,716,528, Cl. 364-300.000.

Herron, Lester W.; Master, Raj N.; and Nufer, Robert W., to International Business Machines Corporation. Method of controlling the sintering of metal particles. 4,671,928, 6-9-87, Cl. 419-10.000.

Herron, Lorne R., to Atlas Copco Aktiebolag. Method of stabilizing a rock structure. 4,696,606, 9-29-87, Cl. 405-259.000.

Herron, Marie. Cervical exam teaching method. 4,681,547, 7-21-87, Cl. 434-273.000.

Herron, Michael M., to Schlumberger Technology Corp. Quantitative determination by elemental logging of subsurface formation properties. 4,712,424, 12-15-87, Cl. 73-152.000.

Herron, Susan L., to Schlumberger Technology Corporation. In situ determination of total carbon and evaluation of source rock therefrom. 4,686,364, 8-11-87, Cl. 250-256.000.

Herrscher, Albert: *See*—
Link, Helmut F.; Trautmann, Gunther; and Herrscher, Albert, 4,640,158, Cl. 82-3.000.

Herschel Corporation (Delaware Corp.): *See*—
Speck, Cleo T., 4,673,006, Cl. 141-1.000.

Herscher, Lee R.; and Goertzen, Gerold G., to Roper Corporation. Tilling machine with pivotal bi-directional operative tines. 4,706,761, 11-17-87, Cl. 172-42.000.

Herschlag, Herbert. Portable upholstered furniture. 4,697,847, 10-6-87, Cl. 297-440.000.

Herscovici, Saul, to Power Engineering and Manufacturing, Ltd. Gear cutter. 4,663,721, 5-5-87, Cl. 364-475.000.

Hersener, Jurgen; Herzog, Hans-Joest; and Strohm, Karl, to Licentia Patent-Verwaltungs-GmbH; and Telefunken Electronic GmbH. Mask for X-ray lithography. 4,647,517, 3-3-87, Cl. 430-5.000.

Hersevoort, Aart: *See*—
Uiterwaal, Dirk J. D.; and Hersevoort, Aart, 4,710,387, Cl. 426-72.000.

Hersey, Devin W.: *See*—
Gross, Sidney; and Hersey, Devin W., 4,671,080, Cl. 62-467.000.

Hersh, Evan M.: *See*—
Lopez-Berestein, Gabriel; Fainstein, Victor; Hersh, Evan M.; Hopfer, Roy L.; Juliano, Rudolph L.; Mehta, Kapil; and Mehta, Reeta, 4,663,167, Cl. 514-37.000.

Hersh, Samuel: *See*—
Cornsweet, Tom N.; and Hersh, Samuel, 4,715,703, Cl. 351-205.000.

Hersham Valves Ltd.: *See*—
Harris, Victor A., 4,669,585, Cl. 188-273.000.

Hershberger, Charles L.; Merkel, Kurt E.; Weeks, Robert E.; and Wild, Gene M., to Eli Lilly and Company. Antibiotic A-4696 factor G. 4,637,981, 1-20-87, Cl. 435-75.000.

Hershberger, Charles L.; and Rosteck, Paul R., Jr., to Eli Lilly and Company. Method for stabilizing and selecting recombinant DNA containing [illegible] cell. 4,650,761, 3-17-87, Cl. 435-172.300.

Hershberger, Charles L.; and Larson, Jeffrey L., to Eli Lilly and Company. Method of cloning modified streptomycetes DNA. 4,710,466, 12-1-87, Cl. 435-91.000.

Hershberger, Charles L.: *See*—
Boeck, LaVerne D.; Clem, Gladys M.; Hershberger, Charles L.; Anderson, Marie T.; and Michel, Karl H., 4,663,282, Cl. 435-68.000.

Hershberger, Doran D., to General Electric Company. Laundry machine drive. 4,689,973, 9-1-87, Cl. 68-23.700.

Hershberger, Ralph: *See*—
Tobolski, Edward; Grosso, Ronald F.; Cieplak, Joseph; Lang, Elliot; and Hershberger, Ralph, 4,667,509, Cl. 73-83.000.

Hershcovitch, Ady, to United States of America, Energy. Production of intense negative hydrogen beams with polarized nuclei by selective neutralization of negative ions. 4,654,183, 3-31-87, Cl. 376-130.000.

Hershel, Ronald S. Condenser system. 4,681,414, 7-21-87, Cl. 353-102.000.

Hershenson, Fred M.: *See*—
Butler, Donald E.; Pavia, Michael R.; and Hershenson, Fred M., 4,677,112, Cl. 514-312.000.

Hershenson, Harold, to Cordis Corporation. Plaque softening method. 4,672,962, 6-16-87, Cl. 128-303.100.

Hershey Foods Corporation: *See*—
Holmgren, Mark E.; Parrish, Gregory K.; and Cartier, Philip A., 4,710,393, Cl. 426-660.000.
Leeper, Lloyd C.; and Mullen, C. Thomas, 4,657,466, Cl. 414-416.000.
Renda, Frank A., 4,635,786, Cl. 198-424.000.

Hershey, Jay P.; and Ruth, Michael A., to Omega Design Corporation. Bottle unscrambler. 4,655,338, 4-7-87, Cl. 198-395.000.

Hershfeld, Uri, to Orda Industries (1969) Ltd. Building block toy. 4,699,601, 10-13-87, Cl. 446-69.000.

Hershfield, Alan; and Danis, Gary P., to Superior Linen Company, Inc. Drapery track having a rod return extender. 4,642,843, 2-17-87, Cl. 16-87.40R.

Hershfield, Walton N., to Power Integrity Corporation. Transient voltage surge suppressor. 4,677,518, 6-30-87, Cl. 361-56.000.

Hershman, Arnold: *See—*
  Paulik, Frank E.; Hershman, Arnold; Knox, Walter R.; and Roth, James F., 4,690,912, Cl. 502-161.000.

Herson, Mark I.: *See—*
  Erbe, Raymond A.; Molus, Richard J., Sr.; Barnak, James; and Herson, Mark I., 4,699,455, Cl. 350-96.200.

Herst, Douglas J.; and Ngai, Peter Y. Y., to Peerless Lighting Corporation. Lensed indirect luminaire having improved light distribution control. 4,644,454, 2-17-87, Cl. 362-224.000.

Herst, Douglas J.; and Ngai, Peter Y. Y., to Peerless Lighting Corporation. Method for indirect lighting. 4,660,131, 4-21-87, Cl. 362-223.000.

Herst, Douglas J.; and Ngai, Peter Y. Y., to Peerless Lighting Corporation. Luminaire for indirect lighting. 4,667,275, 5-19-87, Cl. 362-223.000.

Herst, Douglas J.; and Iwahashi, Henry H., to Peerless Lighting Corporation. Lighting fixture hanger unit for a modular lighting system. 4,706,170, 11-10-87, Cl. 362-217.000.

Herstein, James S.: *See—*
  Rympalski, William P.; Herstein, James S.; and Ritenour, Roger L., 4,639,720, Cl. 340-712.000.

Herteg, Glenn: *See—*
  Sternberg, Stanley R.; Herteg, Glenn; Koskella, Martin P.; and Berla, Timothy S., 4,665,551, Cl. 382-49.000.

Hertel, Hasso; Hunger, Klaus; and Frolich, Heinrich, to Hoechst Aktiengesellschaft. Process for preparing water-insoluble blue azo dyes on the fiber: hydroxynaphthoic amide and diazotized di-alkoxy-benzidine. 4,696,675, 9-29-87, Cl. 8-669.000.

Hertel, Heinz E., to Bell & Howell Company. Light tight film cartridge with floating light seal. 4,634,071, 1-6-87, Cl. 242-71.100.

Hertel, Heinz E., to Bell & Howell Company. Film developing system for microimage recording apparatus. 4,697,919, 10-6-87, Cl. 355-27.000.

Hertel, Larry W., to Eli Lilly and Company. Difluoro antivirals and intermediate therefor. 4,692,434, 9-8-87, Cl. 514-49.000.

Hertel, Richard J., to Varian Associates, Inc. Wafer transfer system. 4,634,331, 1-6-87, Cl. 414-217.000.

Hertelendy, Chris E. Waterproof splice connector having high tensile pullout resistance. 4,673,233, 6-16-87, Cl. 439-442.000.

Hertell, Siegfried, to Barmag AG. Gear pump having multiple outputs. 4,674,964, 6-23-87, Cl. 418-60.000.

Hertell, Siegfried: *See—*
  Schippers, Heinz; and Hertell, Siegfried, 4,648,810, Cl. 417-383.000.

Herten, Ernst, to William Prym-Werke GmbH & Co. KG. Machine for applying articles of hardware to tensioned textile materials. 4,659,001, 4-21-87, Cl. 227-153.000.

Herten, Ernst, to William Prym-Werke GmbH & Co. KG. Press for applying articles of hardware to garments and the like. 4,703,882, 11-3-87, Cl. 227-8.000.

Herter, Rolf; Schickaneder, Helmut; Morsdorf, Peter; Postius, Stefan; Szelenyi, Istvan; and Ahrens, Kurt H., to Ludwig Heumann & Co. GmbH. Pyrazole derivatives, processes for their preparation and pharmaceutical preparations containing these compounds. 4,666,921, 5-19-87, Cl. 514-326.000.

Herter, Rolf: *See—*
  Postius, Stefan; Herter, Rolf; Morsdorf, Peter; Schickaneder, Helmut; Szelenyi, Istvan; and Ahrens, Kurt H., 4,656,180, Cl. 514-316.000.
  Schickaneder, Helmut; Postius, Stefan; Szelenyi, Istvan; Morsdorf, Peter; Herter, Rolf; and Ahrens, Kurt H., 4,659,721, Cl. 514-326.000.

Hertfelder, Wilhelm: *See—*
  Babitzka, Rudolf; Hertfelder, Wilhelm; Linder, Ernst; and Schlagmuller, Walter, 4,646,705, Cl. 123-571.000.

Hertler, Walter R.; and Sogah, Dotsevi Y., to Du Pont de Nemours, E. I., and Company. "Living" polymers and chain transfer-regulated polymerization process. 4,656,233, 4-7-87, Cl. 526-190.000.

Hertrich, Friedrich R., to Digital Equipment Corporation. Mechanism for joining tape leaders. 4,662,049, 5-5-87, Cl. 29-267.000.

Hertrich, Klaus: *See—*
  Fenske, Horst; Hertrich, Klaus; and Storr, Rudolf, 4,652,746, Cl. 250-231.0SE.

Hertsgaard, John P.; and Gallant, W. Keith, to Honeywell Inc. Enabling device for a gas generator of a forced dispersion munitions dispenser. 4,714,020, 12-22-87, Cl. 102-351.000.

Hertweck, Gernot; Kappis, Fritz; Kellermann, Guenter; and Schalueck, Klaus, to Daimler-Benz Aktiengesellschaft. Intake system for a multi-cylinder internal combustion engine. 4,697,569, 10-6-87, Cl. 123-568.000.

Hertwich, Gunther. Furnace for heat treating light alloy ingots. 4,664,359, 5-12-87, Cl. 266-90.000.

Hertz, Claude M.: *See—*
  Ronk, Leroy B.; and Hertz, Claude M., 4,697,132, Cl. 318-795.000.

Hertzberg, Robert P.: *See—*
  Dervan, Peter B.; and Hertzberg, Robert P., 4,665,184, Cl. 546-109.000.

Hertzog, Earl D.: *See—*
  Avedissian, Michael K.; and Hertzog, Earl D., 4,667,870, Cl. 228-103.000.

Herve, Jean-Luc; Jouanneau, Jean-Francois; Kristensen, Ivar G.; and Haugen, Finn, to Total Compagnie Francaise des Petroles; and Den Norske Stats Oljeselskap A.S. Assembly of pipes. 4,648,419, 3-10-87, Cl. 137-245.500.

Herve, Jean-Luc, to TOTAL Compagnie Francaise des Petroles. Valve and a process for removing a closure member of the valve. 4,699,350, 10-13-87, Cl. 251-1.300.

Herve, Michel, to S.A. Fonderies du Lion. Heating apparatus operating with gaseous fuel and designed to be connected to a smoke pipe. 4,714,073, 12-22-87, Cl. 126-91.00R.

Herve, Robert J. L. A., to Compagnie Internationale pour l'Informatique Cii-Honeywell Bull (Societe Anonyme). Method and system for transmission of confidential data. 4,638,120, 1-20-87, Cl. 178-22.080.

Hervens, Francoise M.: *See—*
  Roberfroid, Marcel B.; Viehe, Heinz G.; and Hervens, Francoise M., 4,673,690, Cl. 514-563.000.

Hervey, Laurence R. B. Use of oxonated poly(alkylene oxides) as surface treatment agents. 4,698,259, 10-6-87, Cl. 428-378.000.

Herweck, Steve A.; and Karwoski, Theodore, to Atrium Medical Corporation. Elasticization of microporous woven tubes. 4,652,26 3-24-87, Cl. 623-1.000.

Herweh, John E., to Armstrong World Industries, Inc. Novel polyacrylic esters bearing pendant macrocyclic ethers and electrically conducting compositions comprised thereof. 4,650,846, 3-17-87, Cl. 526-268.000.

Herweh, John E., to Armstrong World Industries, Inc. Novel polyacrylic esters bearing pendant macrocyclic ethers and electrically conducting compositions comprised thereof. 4,652,399, 3-24-87, Cl. 252-518.000.

Herweh, John E.; Echterling, Garry K.; and Setthachayanon, Songvit, to Armstrong World Industries, Inc. Bicyclic acrylic monomers. 4,672,098, 6-9-87, Cl. 526-268.000.

Herwig, Jens; Norenberg, Hagen; Bergmann, Friedhelm; Stiller, Manfred; Schlemmermeyer, Horst; Schmidt, Wilfried; Straube, Hilmar; and Wolter, Helmut, to EC Erdolchemie GmbH. Device for emission-free sampling of volatile liquids. 4,712,434, 12-15-87, Cl. 73-864.630.

Herwig, Thomas; and Geus, Georg, to Heimann GmbH. High voltage supply circuit for an x-ray tube. 4,641,330, 2-3-87, Cl. 378-101.000.

Herwig, Walter: *See—*
  Dursch, Walter; Herwig, Walter; and Engelhardt, Friedrich, 4,696,987, Cl. 526-216.000.
  Schneller, Arnold; Herwig, Walter; and Erbes, Kurt, 4,678,737, Cl. 430-270.000.

Hery, Paul: *See—*
  Penato, Jean M.; Hery, Paul; and Bouhnik, Claude, 4,670,895, Cl. 378-125.000.

Herz, Arthur H.: *See—*
  Bryan, Philip S.; and Herz, Arthur H., 4,695,534, Cl. 430-569.000.
  Bryan, Philip S.; and Herz, Arthur H., 4,695,535, Cl. 430-569.000.
  Bryan, Philip S.; and Herz, Arthur H., 4,713,322, Cl. 430-569.000.

Herz, Claus P.: *See—*
  Praefcke, Klaus; Kohne, Bernd; Poetsch, Eike; and Herz, Claus P., 4,713,196, Cl. 252-299.010.

Herz, Jean: *See—*
  Chaumont, Philippe; Beinert, Gerard; Herz, Jean; and Rempp, Paul, 4,687,814, Cl. 525-242.000.

Herzenberg, Leonard A.: *See—*
  Steinman, Lawrence; Waldor, Matthew K.; Sriram, Subramaniam; Herzenberg, Leonard A.; and Herzenberg, Leonore A., 4,695,459, Cl. 424-95,000.

Herzenberg, Leonore A.: *See—*
  Steinman, Lawrence; Waldor, Matthew K.; Sriram, Subramaniam; Herzenberg, Leonard A.; and Herzenberg, Leonore A., 4,695,459, Cl. 424-95.000.

Herzenberger, Mario. Microprocessor controlled roulette game including an optical encoder for sensing the position of the ball on the roulette wheel. 4,643,425, 2-17-87, Cl. 273-142.00B.

Herzfeld, Jason H. Sectionalized folder. 4,639,157, 1-27-87, Cl. 402-19.000.

Herzfeld, Ronald; Wydra, Karl; and Uebel, Alexander, to Knorr-Bremse Fluidics GmbH. Handle for a fluidic cleaning and/or massaging device. 4,634,053, 1-6-87, Cl. 239-315.000.

Herzfeldt, Claus D., to Erweka Apparatebau GmbH. Device for taking and measuring samples. 4,655,094, 4-7-87, Cl. 73-863.310.

Herzig, Frank: *See—*
  Brenish, Michael; and Herzig, Frank, 4,682,383, Cl. 15-105.500.

Herzl, Peter J., to Fischer & Porter Company. Current-to-frequency converter. 4,651,027, 3-17-87, Cl. 307-271.000.

Herzl, Peter J., to Fischer & Porter Company. Coriolis-type mass flowmeter. 4,691,578, 9-8-87, Cl. 73-861.380.

Herzog, Albin: *See—*
  Maeder, Rene; and Herzog, Albin, 4,683,918, Cl. 140-73.000.

Herzog, Alexander; Marlin, James W.; Platte, Brian G.; and Yeskel, Filip J., to International Business Machines Corporation. Interface process for an all points addressable printer. 4,651,278, 3-17-87, Cl. 364-300.000.

Herzog, Barbara: *See—*
  Herzog, Stuart; and Herzog, Barbara, 4,669,903, Cl. 400-489.000.

Herzog, Hans-J.: *See—*
  Dambkes, Heinrich; Herzog, Hans-J.; and Jorke, Helmut, 4,710,788, Cl. 357-22.000.

Herzog, Hans-Joest: *See—*
  Hersener, Jurgen; Herzog, Hans-Joest; and Strohm, Karl, 4,647,517, Cl. 430-5.000.

Herzog, Hans K.; and Sakurai, Seiya, to Boeing Company, The. Avionic control system. 4,649,484, 3-10-87, Cl. 364-424.000.

Herzog-Hart Corporation: *See—*
  Concordia, Joseph J.; and Hall, Donald R., 4,683,122, Cl. 422-227.000.

Herzog, Kurt, and Schuler, Roland, to BBC Brown, Boveri & Company, Limited. Process for production of the winding of an electrical machine. 4,704,787, 11-10-87, Cl. 29-596.000.
Herzog, Michael. Rotary feeder to orient and feed bottle caps and similar parts. 4,709,798, 12-1-87, Cl. 198-380.000.
Herzog, Peter: *See—*
Lothenbach, Michael; and Herzog, Peter, 4,698,475, Cl. 219-69.00W.
Herzog, Reinhard: *See—*
Dietrich, Gerhard; Nestler, Gerhard; Ruckh, Peter; and Herzog, Reinhard, 4,675,436, Cl. 560-205.000.
Herzog, Rudolf, to Sulzer Brothers Limited. Apparatus for controlling a process variable of a flowing medium. 4,702,306, 10-27-87, Cl. 165-36.000.
Herzog, Stuart; and Herzog, Barbara. Bio-mechanical keyboard structure and method. 4,669,903, 6-2-87, Cl. 400-489.000.
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Herzog, William F., and Nichols, William E., to Apert-Herzog Corporation. Television multiple frame store with cyclical repeat. 4,703,356, 10-27-87, Cl. 358-160.000.
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Kramer, Josef; Irmscher, Klaus; Prucher, Helmut; and Hesch, Rolf-Dieter, 4,713,465, Cl. 549-403.000.
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Hesener, Walter. Picture frame. 4,706,397, 11-17-87, Cl. 40-152.000.
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Heskett, Don E. Method of treating fluids. 4,642,192, 2-10-87, Cl. 210-638.000.
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Hess, Craig W. Rotary meat grinder with bone chip removal hub. 4,699,325, 10-13-87, Cl. 241-82.500.
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Kovatch, Stephen C., 4,643,477, Cl. 296-84.00K.
Hess, Gunter: *See—*
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Hess, Heinrich; Grogler, Gerhard; and Kopp, Richard, to Bayer Aktiengesellschaft. Cold setting compositions, a process for the production thereof and the use thereof for polyurethane production. 4,716,182, 12-29-87, Cl. 521-163.000.
Hess, Heinrich: *See—*
Grogler, Gerhard; Kopp, Richard; Hess, Heinrich; and Rasshofer, Werner, 4,663,415, Cl. 528-61.000.
Grogler, Gerhard; Kopp, Richard; and Hess, Heinrich, 4,667,008, Cl. 528-67.000.
Kopp, Richard; Grogler, Gerhard; Hess, Heinrich; and Konig, Klaus, 4,680,367, Cl. 528-44.000.
Hess, Heinz; and Peth, Horst, to Robert Bosch GmbH. Circuit for changeable prolongation of the running time of an ultrasound delay line. 4,679,064, 7-7-87, Cl. 358-24.000.
Hess, Heinz, to Robert Bosch GmbH. Circuit arrangement for matrixing three chroma signals to obtain color difference and a luminance signal. 4,688,083, 8-18-87, Cl. 358-30.000.
Hess, Heinz; and Peth, Horst, to Robert Bosch GmbH. Method to reestablish a predetermined phase relationship of a chrominance TV signal with respect to a reference. 4,698,667, 10-6-87, Cl. 358-35.000.
Hess, Herman A. Separable fastener with sliding sleeve. 4,713,864, 12-22-87, Cl. 24-590.000.
Hess, Jack H., to Air Plus, Inc. Fluidized hospital bed. 4,638,519, 1-27-87, Cl. 5-455.000.
Hess, Jurgen: *See—*
Eisele, Albert; Hess, Jurgen; and Krimmer, Erwin, 4,647,087, Cl. 292-45.000.
Hess, Lawrence, Jr. Spray actuator. 4,660,745, 4-28-87, Cl. 222-174.000.
Hess, Markus J., to Crothers Limited. Heavy load lifting apparatus. 4,636,133, 1-13-87, Cl. 414-715.000.
Hess, Matthew L.: *See—*
Benjamin, Jay H.; Gray, James P.; Hayward, Royal C.; Hess, Matthew L.; McGriff, Frederick E.; Miller, Ellis L.; and Weingarten, Robert A., 4,677,588, Cl. 364-900.000.
Hess, Peter: *See—*
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Hess, Raoul; and Mirabel, Bernard, to Rhone-Poulenc Specialites Chimiques. Process and apparatus for intimate contacting of a plurality of physically disparate phases, at least one of which being gaseous. 4,668,441, 5-26-87, Cl. 261-79.200.
Hess, Richard A.; and Tschudy, Donald P., to United States of America, Health and Human Services. Method of controlling graft versus host reaction. 4,670,467, 6-2-87, Cl. 514-557.000.
Hess, Robert M.: *See—*
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Hess, Robert W.; Davis, William T.; and Davis, Pamela A., to United States of America, National Aeronautics and Space Administration. Oscillation pressure device for dynamic calibration of pressure transducers. 4,698,997, 10-13-87, Cl. 73-4.00R.
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Hess, Stanley C., to American Recreation Group. Bicycle pivot assembly. 4,700,964, 10-20-87, Cl. 280-289.00R.
Hess, Stanley R.; and Kovacs, Terri, to Cordis Corporation. Percutaneous lead having radially adjustable electrode. 4,660,571, 4-28-87, Cl. 128-784.000.
Hess, Stanley R., to Cordis Corporation. Adjustable isodiametric atrial-ventricular pervenous lead. 4,664,120, 5-12-87, Cl. 128-642.000.
Hess, Stanley R., to Cordis Corporation. Retention skirt for pacing electrode assembly. 4,669,488, 6-2-87, Cl. 128-785.000.
Hess, Stanley R., to Cordis Corporation. Surface mapping electrode sets. 4,690,148, 9-1-87, Cl. 128-639.000.
Hess, Stanley R., to Cordis Corporation. Monophasic action potential recording lead. 4,690,155, 9-1-87, Cl. 128-786.000.
Hess, Susan V.: *See—*
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Hess, Wilhelm: *See—*
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Hessberg, Sigfried: *See—*
Miltenburger, Herbert G.; and Hessberg, Sigfried, 4,649,114, Cl. 435-240.000.
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Hesse, Hans, to Krauss-Maffei A.G. Chain tensioning device. 4,712,469, 12-15-87, Cl. 91-422.000.
Hesse, Karl-Heinz: *See—*
Abel, Joachim; Neuhaus, Detlev; Hesse, Karl-Heinz; Muller, Michael; and Lichtenberg, Wolfgang, 4,665,362, Cl. 324-208.000.
Hesse, Robert H.; Rizzardo, Ezzio; and Barton, Derek H. R. 1-α-hydroxy vitamin D compounds and process for preparing same. 4,670,190, 6-2-87, Cl. 260-397.200.
Hesse, Ronald F., Jr. Pivoting gate unloader. 4,685,856, 8-11-87, Cl. 414-515.000.
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Hessel, Lasse. Resilient supporting device. 4,707,872, 11-24-87, Cl. 5-451.000.
Hessel, Steven R., to Hewlett-Packard Company. Through-traffic priority protocol in a communications system. 4,707,693, 11-17-87, Cl. 340-825.510.
Hesselink, Lambertus: *See—*
Goodman, Joseph W.; Hesselink, Lambertus; and Ochoa, Ellen, 4,674,824, Cl. 350-3.640.
Hessell, Edward T.: *See—*
Pastor, Stephen D.; and Hessell, Edward T., 4,678,826, Cl. 524-104.000.
Hesselmar, Karl G., to AB Holmgrens Armaturfabrik. Securing device for securing in cavities. 4,715,755, 12-29-87, Cl. 411-39.000.
Hessler, Alfred; and Bartczak, Andrzej, to Magna International Inc. Memory seat assembly. 4,652,052, 3-24-87, Cl. 297-341.000.
Hessler, Donald B. Rotary shear attachment and tool for laminated plastic and other materials. 4,646,438, 3-3-87, Cl. 30-263.000.
Hessler, George W.: *See—*
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Hessler, William D., to ITT Corporation. Self-draining pump arrangement. 4,661,041, 4-28-87, Cl. 415-52.000.
Hesson, David P., to Du Pont de Nemours, E. I., and Company. Phenylquinazolinecarboxylic acids and derivatives as cancer chemotherapeutic agents. 4,639,454, 1-27-87, Cl. 514-259.000.
Hesson, David P., to E.I. Du Pont de Nemours and Company. 2-phenyl-4-quinolinecarboxylic acids and pharmaceutical compositions thereof. 4,680,299, 7-14-87, Cl. 514-311.000.
Hesston Corporation: *See—*
Anderson, J. Dale; McMillen, Kenneth R.; and Goertz, Arnold E., 4,663,922, Cl. 56-15.600.
Anderson, J. Dale; McMillen, Kenneth R.; and Goertz, Arnold E., 4,677,814, Cl. 56-15.600.
Guinn, Ronald K.; and Fell, Ferol S., 4,637,406, Cl. 130-27.00R.
Pruitt, Martin E.; Case, Cecil L.; and Fritz, David P., 4,637,201, Cl. 56-16.400.
Pruitt, Martin E., 4,676,053, Cl. 56-208.000.

Hester, Jackson B., Jr., and Ludens, James H., to Upjohn Company, The. Triazolo-benzodiazepine-1-ethanamines as diuretics. 4,689,413, 8-25-87, Cl. 540-565.000.

Hester, Phillip D.; and Simpson, Richard O., to International Business Machines Corporation. Virtual memory address translation mechanism with combined hash address table and inverted page table. 4,680,700, 7-14-87, Cl. 364-200.000.

Hester, Richard E.: *See—*
  Wahl, Jerry R.; and Hester, Richard E., 4,704,586, Cl. 331-25.000.

Hester, Richard K.; and Tan, Khen-Sang, to Texas Instruments Incorporated. Microprocessor system with programmable interface. 4,638,451, 1-20-87, Cl. 364-900.000.

Hester, Robert. Vehicle and method of operating same. 4,645,222, 2-24-87, Cl. 280-5.260.

Hester, Ronald E., to Maxiprint Systems Limited. Color correction head. 4,653,902, 3-31-87, Cl. 355-32.000.

Hesthamar, Tore: *See—*
  Thyren, Carl H.; and Hesthamar, Tore, 4,713,966, Cl. 73-149.000.

Heston, David D.; Lehmann, Randall E.; and Seymour, David J., to Texas Instruments Incorporated. Dual-gate, field-effect transistor low noise amplifier. 4,658,220, 4-14-87, Cl. 330-277.000.

Hetemaa, Kalevi; Naumanen, Esko; and Vainio, Frans, to Elevator GmbH. Dual rails for roller pallets. 4,640,459, 2-3-87, Cl. 238-122.000.

Hetherington, Gordon S., to Petro-Canada Inc. Inventory reduction by displacement. 4,664,294, 5-12-87, Cl. 222-105.000.

Hetherington, Hoby P.: *See—*
  Avison, Malcolm J.; Hetherington, Hoby P.; Jue, Thomas H.; and Rothman, Douglas L., 4,678,995, Cl. 324-309.000.

Hetherington, Michael W. Electrical outlet assembly. 4,684,186, 8-4-87, Cl. 439-171.000.

Hetherington, Michael W., to Iona Appliances Inc./Appareils Iona Inc. Hose assembly for fluid flow apparatus. 4,700,428, 10-20-87, Cl. 15-338.000.

Hetherington, Robert D.: *See—*
  Cavanaugh, James E.; Erwin, Larry; and Hetherington, Robert D., 4,690,308, Cl. 222-156.000.

Hetherington, Todd G. Auxiliary shock absorber assembly. 4,678,204, 7-7-87, Cl. 280-710.000.

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Hethuin, Serge; and Marin, Guy F. M., to U.S. Philips Corporation. Arrangement for receiving TACAN signals. 4,636,958, 1-13-87, Cl. 364-451.000.

Hettche, Albert; Weiss, Stefan; Trauth, Hubert; Lechtken, Peter; and Horner, Michael, to BASF Aktiengesellschaft. Stabilizers. 4,680,327, 7-14-87, Cl. 524-110.000.

Hettche, Albert: *See—*
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  Denzinger, Walter; Hartmann, Heinrich; Trieselt, Wolfgang; Hettche, Albert; Schneider, Rolf; and Raubenheimer, Hans-Juergen, 4,698,174, Cl. 252-174.240.
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  Ziegler, Walter; Dietsche, Wolfram; Weiss, Stefan; Mueller, Richard; Hettche, Albert; Glaser, Klaus; and Vamvakaris, Christos, 4,693,909, Cl. 427-156.000.

Hettche, Helmut; Emig, Peter; and Engel, Jurgen, to Degussa Aktiengesellschaft. 2-amino-3-ethoxycarbonylamino-6-(p-fluoro-benzylamino)-pyridine gluconate and pharmaceutical preparations containing it. 4,673,666, 6-16-87, Cl. 514-23.000.

Hettche, Helmut: *See—*
  Tibes, Ulrich; Weischer, Carl H.; Hettche, Helmut; Breuel, Hans-Peter; and Gunesch, Dietmar, 4,668,684, Cl. 514-277.000.

Hettel, Hans: *See—*
  Dietrich, Manfred; Konig, Klaus; Hettel, Hans; Seifert, Peter; and Vehlewald, Peter, 4,668,734, Cl. 524-714.000.

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  Olschewski, Armin; Hetterich, Hermann; Horling, Peter; and Stolz, Robert, 4,689,982, Cl. 72-334.000.
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Hettich, Adam J., to Datametrics Corporation. Strip media tensioning system. 4,688,742, 8-25-87, Cl. 242-192.000.

Hettich, Gerhard: *See—*
  Eckardt, Dieter; and Hettich, Gerhard, 4,712,064, Cl. 324-208.000.

Hettiger, James: *See—*
  Ersoz, Nathaniel H.; and Hettiger, James, 4,658,437, Cl. 455-180.000.

Hettinger, Peter: *See—*
  Merger, Franz; Hettinger, Peter; Weber, Theodor; Boettger, Guenter; and Koernig, Wolfgang, 4,665,219, Cl. 560-189.000.
  Merger, Franz; Hutmacher, Hans-Martin; Hettinger, Peter; Vog Dieter; and Lengsfeld, Wolfgang, 4,709,072, Cl. 558-450.000.

Hettler, Wendelin: *See—*
  Stanek, Richard; Marx, Hans-Norbert; Hettler, Wendelin; an Wagner, Claus, 4,716,054, Cl. 427-297.000.

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Hettwer, Paul F.: *See—*
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Hetyei, Joseph, to Thomson-CSF. Device for detecting a pulse train noise and application to a radionavigation aid system of DME typ 4,694,200, 9-15-87, Cl. 307-358.000.

Hetzel, Gert: *See—*
  Moeller, Reiner; Hetzel, Gert; Saugeon, Ulrich; Boheim, Gusta and Zurinski, Viktor, 4,707,813, Cl. 367-103.000.

Hetzer, Frederick C.; and Miller, Guy W., to United Technologie Corporation. Method of disassembly for a gas turbine engi 4,685,286, 8-11-87, Cl. 60-39.020.

Hetzer, Norbert, to Esselte Pendaflex Corporation. Price casset 4,679,339, 7-14-87, Cl. 40-10.00R.

Heubach, Frank: *See—*
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Heubach, Gunther; Bauer, Klaus; and Bieringer, Hermann, to Hoech Aktiengesellschaft. Plant protection agents based on 1,2,4-triaz derivatives and also new derivatives of 1,2,4-triazole. 4,639,2 1-27-87, Cl. 71-92.000.

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  Slosberg, David K.; Reece, David S.; and Claessen, Johannes A H., 4,702,950, Cl. 428-95.000.

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  Bonel, Gilbert; Heughebaert, Jean C.; Chaabouni, Mohamed an Ayedi, Hassine, 4,692,323, Cl. 423-321.00R.

Heule, Heinrich. Forward and reverse milling cutter. 4,660,262, 4-28-8 Cl. 29-57.000.

Heule, Heinrich. De-burring tool for the de-burring of the edges o holes in curved or oblique surfaces of a work piece. 4,690,595, 9-1-8 Cl. 409-143.000.

Heule, Heinrich. Cone drill bit. 4,710,072, 12-1-87, Cl. 408-18.000.

Heumuller, Roland: *See—*
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Heuninck, John B.: *See—*
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Heuschen, Jean M. H.: *See—*
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Heusel, Johann: *See—*
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Heusinkveld, Valerie F.: *See—*
  Chavdarian, Charles G.; and Heusinkveld, Valerie F., 4,659,702, C 514-134.000.

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Hewgill, Gregory S.: *See—*
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  Watkins, David R.; Kalfayan, Leonard J.; and Hewgill, Gregory S. 4,646,835, Cl. 166-295.000.

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Hewick, Rodney M.: *See—*
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Hewig, Gert; Schurich, Bernd; Worner, Jorg; and Schock, Hans Werner, to Nukem GmbH. Photovoltaic cell and method for it fabrication. 4,707,561, 11-17-87, Cl. 136-256.000.

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Hewinson, John; and Stockdale, John A., to Plessey Overseas Limited Adaptive cancellation bridge circuit. 4,670,870, 6-2-87, C 370-28.000.

Hewison, George D., and Harris, Terence E., to Illinois Tool Works Inc. Sealing washers for headed fasteners. 4,712,802, 12-15-87, Cl 277-212.00C.

Hewitt, David P.: *See—*

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Hewitt, Lori R.: *See—*

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Hewitt, Michael T. H.; Ballance, John W.; and Scott, Richard P. I., to British Telecommunications plc. Communications network having a single node and a plurality of outstations. 4,642,806, 2-10-87, Cl 370-95.000.

Hewitt, Michael T. H., to British Telecommunications plc. Frequency control for point to multipoint radio. 4,670,889, 6-2-87, Cl 375-107.000.

Hewitt, Paul, to George Blair P.L.C. Track tread. 4,694,556, 9-22-87, Cl 29-451.000.

Hewitt, Steven W.: *See—*

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Simkins, Philip P., 4,684,016, Cl. 206-45.130.

Hewitt, Timothy W. Stand for a table saw. 4,640,326, 2-3-87, Cl 144-287.000.

Hewitt, Timothy W. Wheeled pallet. 4,641,845, 2-10-87, Cl. 280-79.10A.

Hewitt, Timothy W., and Hewitt, William V. Collapsible conveyor. 4,715,488, 12-29-87, Cl. 193-35.00R.

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Hewitt, William V.: *See—*

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Abell, Steven T., 4,698,784, Cl. 364-900.000.

Ackley, Donald E.; Engelmann, Reinhart W. H.; and Inouye, Teruko K., 4,665,525, Cl. 372-46.000.

Adcock, James L., 4,654,809, Cl. 364-553.000.

Allen, Curtis M.; and Smith, Larry J., 4,648,060, Cl. 364-851.000.

Anderson, Gregory A.; Eason, Paul M.; and Wheelwright, Lynn M., 4,649,496, Cl. 364-485.000.

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Baldwin, Gary; Hallgren, Robert B.; Hornak, Thomas; and Ives, Fred H., 4,639,619, Cl. 307-352.000.

Baldwin, Richard R., 4,711,574, Cl. 356-349.000.

Banno, Takuo, 4,686,457, Cl. 324-77.00R.

Barr, John T., IV; Neering, Michael J.; Fullmer, Douglas E.; Oblad, Roger P.; Cannon, Wayne C.; and Elmore, Glenn E., 4,641,086, Cl. 324-77.00R.

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Baumgartner, Richard A.; Dukes, John N.; and Fisher, George A., 4,638,191, Cl. 307-602.000.

Baumgartner, Richard A.; Dukes, John N.; and Fisher, George A., 4,703,251, Cl. 324-57.00R.

Bearss, James G.; Chan, C. S.; and Meyer, Wesley L., 4,675,083, Cl 204-11.000.

Bell, R. Frank; and Wilcox, Roger V., 4,669,003, Cl. 360-77.000.

Bente, H. Bryan; Herman, Alan C.; Myerson, Joel; Shaw, Benjamin G.; and Stefanski, Andrew, 4,714,545, Cl. 210-101.000.

Birk, John; Breu, Heinz; Gong, William; Morehouse, Charles C.; and Liebes, Sidney, Jr., 4,705,081, Cl. 140-147.000.

Blackham, Ray, 4,713,782, Cl. 364-553.000.

Bliek, Genevieve M.; and Luehman, Kent W., 4,675,864, Cl 370-85.000.

Bloomquist, Darrel R.; Drennan, George A.; Lawton, Robert J.; Opfer, James E.; and Jacobson, Michael B., 4,663,009, Cl 204-192.200.

Bodenstab, Paul R., 4,703,457, Cl. 365-189.000.

Botka, Julius, 4,648,683, Cl. 339-177.00R.

Burgess, Ken L., 4,686,331, Cl. 178-19.000.

Caine, Nathanael T.; and Simon, Jean-Jacques, 4,703,473, Cl 370-15.000.

Cannon, Wayne C.; and Neering, Michael J., 4,644,486, Cl 364-570.000.

Chan, C. S.; and Hay, Robert R., 4,694,308, Cl. 346-140.00R.

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Clements, Brad; and Keith, John C., 4,697,048, Cl. 178-18.000.

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Coleby, Stanley E.; and Forster, Michael H., 4,635,208, Cl 364-491.000.

Crawford, Gregan F., 4,634,210, Cl. 339-176.0MP.

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Dasilva, Marcus K., 4,654,610, Cl. 333-81.00R.

Davidson, Robert J., 4,681,447, Cl. 356-351.000.

Disputo, Gary J.; Mather, Larry R.; and Meyer, John D., 4,680,645, Cl. 358-298.000.

Donecker, S. Bruce; Stewart, Ronald D.; and Frederick, Wayne L., 4,641,085, Cl. 324-77.00R.

Dugas, Roger A., 4,714,909, Cl. 336-192.000.

Dukes, John N.; and Baumgartner, Richard A., 4,658,225, Cl 333-166.000.

Dukes, John N.; Carlsen, William F., Jr.; and Pittaro, Richard J., 4,716,363, Cl. 324-77.00R.

Eaton, Bill; and Higgins, Marvin L., 4,642,524, Cl. 315-169.300.

Ellis, David M., 4,667,680, Cl. 128-672.000.

Emmerich, Robert D.; and Christie, Leslie G., Jr., 4,656,534, Cl 360-71.000.

Fasen, Donald J.; and Wilcox, Roger V., 4,700,244, Cl. 360-77.000.

Felps, Jimmie D., 4,658,341, Cl. 363-21.000.

Finnell, James S.; and Steps, Steven C., 4,654,787, Cl. 364-200.000.

Finnell, James S., 4,679,167, Cl. 364-900.000.

Fremont, Michael J., 4,703,481, Cl. 371-12.000.

Glassett, Kevin L., 4,716,420, Cl. 346-139.00R.

Goel, Atul; Bartlett, Keith G.; and Trutna, W. R., 4,681,430, Cl 355-77.000.

Goodwin, Bryce S., Jr., 4,636,940, Cl. 364-200.000.

Groves, William A.; Snook, Matthew L.; and Browen, Rodney, 4,642,561, Cl. 324-73.00R.

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Hackleman, David E.; Johnson, Loren E.; and Norton, Kenneth A., 4,670,059, Cl. 106-307.000.

Hackleman, David E.; and Pawlowski, Norman E., 4,694,302, Cl 346-1.100.

Hackleman, David E.; Bearss, James G.; and Bhaskar, Eldurkar V., 4,695,853, Cl. 346-140.00R.

Hansen, Stuart C.; and Truche, Jean-Luc, 4,662,914, Cl. 55-386.000.

Hanson, Gary E., 4,635,073, Cl. 346-1.100.

Harkins, Carl G., 4,684,510, Cl. 423-210.000.

Harmon, John P., 4,706,097, Cl. 346-139.00C.

Hashimoto, Ichiro; and Nakamura, Katsushige, 4,707,129, Cl 356-4.500.

Hessel, Steven R., 4,707,693, Cl. 340-825.510.

Higgins, Marvin L.; Eaton, Bill; Cooper, Eugene A.; and Cordy, Clifford B., Jr., 4,707,692, Cl. 340-805.000.

Huffman, John W.; Picht, Brian J.; and Tyson, Ben B., 4,684,273, Cl. 400-247.000.

Ishak, Waguih; and Chang, Kok W., 4,652,338, Cl. 156-659.100.

James, David V., 4,703,418, Cl. 364-200.000.

Jensen, Gordon A.; Reames, Stephen P.; Morris, Jerry D.; and Neal, Scott S., 4,679,193, Cl. 370-94.000.

Jewell, Michael B.; Johnson, Mark W.; and Upham, Arthur F., 4,661,888, Cl. 361-424.000.

Johnson, Samuel A., 4,680,859, Cl. 29-611.000.

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King, Micheel O.; and Keshner, Marvin S., 4,715,115, Cl 29-841.000.

Knowles, Vernon L.; Wilcox, Roger V.; and Jackson, Bruce J., 4,688,118, Cl. 360-75.000.

Konecny, Karl F., 4,647,802, Cl. 310-49.00R.

Lacey, Richard F., 4,710,001, Cl. 350-632.000.

Lawrence, Katherine, 4,692,273, Cl. 252-518.000.

Leonard, Mark G., 4,691,101, Cl. 250-231.0SE.

Magnin, Paul A.; and Hasegawa, Tomohiro, 4,671,294, Cl 128-663.000.

Maier, Craig P., 4,667,279, Cl. 363-46.000.

Merrick, Edwin B.; and Bond, Albert K., 4,703,759, Cl 128-673.000.

Merrick, Stephen P.; and Teichner, Robert W., 4,694,183, Cl 250-551.000.

Miller, Robert V., 4,695,791, Cl. 324-78.00D.

Monnig, Kenneth A.; and Quint, David W., 4,696,833, Cl 437-225.000.

Naegeli, Andrew H.; and Carp, Stuart L., 4,675,613, Cl 328-133.000.

Neil, Robert B.; and Adleman, George L., 4,679,039, Cl 340-728.000.

Neuder, David L.; and Zellmer, Joel A., 4,641,348, Cl. 382-1.000.

Neukermans, Armand P.; Boyden, James H.; and Garrettson, Garrett A., 4,654,581, Cl. 324-61.00R.

Nielsen, Niels J., 4,677,447, Cl. 346-140.00R.

Noyes, Harold B., 4,656,318, Cl. 379-93.000.

Palmer, Donald J., 4,685,968, Cl. 106-23.000.

Potter, Ronald W.; and Adcock, James L., 4,654,808, Cl 364-553.000.

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Quan, Ronald, 4,682,015, Cl. 235-472.000.

Reames, Stephen P., 4,680,755, Cl. 370-85.000.

Rhyner, Michael J.; and Auyer, Walter L., 4,656,541, Cl 360-96.500.

Richter, Kenneth A.; Sohigian, M. D.; and Faick, John C., 4,647,845, Cl. 324-57.00R.

Roos, Mark D., 4,647,847, Cl. 324-79.00R.

Savord, Bernard J., 4,700,573, Cl. 73-625.000.

Sharrit, David D.; Dildine, Robert G.; Roos, Mark D.; and Barr, John T., IV, 4,636,717, Cl. 324-77.00B.

Sharrit, David D.; Neering, Michael J.; Donecker, S. Bruce; Roos, Mark D.; Cannon, Wayne C.; and Barr, John T., IV, 4,661,767, Cl. 324-57.00R.

Sharrit, David D., 4,703,433, Cl. 364-485.000.
Shaya, Mousa N.; and Wyshogrod, Barry L., 4,664,116, Cl. 128-419.0PT.
Sheats, James R., 4,705,729, Cl. 430-5.000.
Siddall, Graham J., 4,694,477, Cl. 378-34.000.
Sikich, Joseph P.; and Duncombe, Richard R., 4,695,981, Cl. 365-227.000.
Sleger, Roger R.; and Walsh, Edward, 4,682,255, Cl. 360-106.000.
Spencer, John R., 4,658,161, Cl. 307-603.000.
Sullivan, James J.; and Quimby, Bruce D., 4,654,504, Cl. 219-121.0PM.
Sutton, Jimmy; Shearer, Wanda; Arkin, Karlie J.; Spoelstra, Jeffrey A.; Weiss, Steven M.; Ramsey, Sherry L.; Hurlbut, Kyle; Culbertson, W. Bruce; and Burns, Robert R., 4,649,499, Cl. 364-518.000.
Swerlein, Ronald L.; DesJardin, Lawrence A.; and Stever, Scott, 4,663,586, Cl. 324-115.000.
Takagi, Susumu, 4,701,701, Cl. 324-158.00R.
Temer, Vladan, 4,652,835, Cl. 330-306.000.
Towner, David K.; and Campbell, David K., 4,688,201, Cl. 369-44.000.
Tullis, Barclay J.; Bailey, John S.; Gunawardena, D. R.; and Kaempf, Ulrich, 4,705,444, Cl. 414-226.000.
Tykulsky, Alexander; Thiele, Karl E.; and Halberg, Leslie L., 4,640,292, Cl. 128-661.000.
Van Maren, David J., 4,672,646, Cl. 377-70.000.
Vincent, Kent D., 4,650,964, Cl. 219-301.000.
Vincent, Kent D., 4,709,144, Cl. 250-226.000.
Wakasugi, Tomio; and Maeda, Akinori, 4,661,791, Cl. 335-151.000.
Walsh, Edward; and Woito, David W., 4,716,478, Cl. 360-104.000.
Walsh, Edward, 4,716,482, Cl. 360-106.000.
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Ware, Frederick A., 4,700,325, Cl. 364-768.000.
Whiteside, Laura; and Bohley, Thomas K., 4,694,244, Cl. 324-121.00R.
Williamson, Donald A.; and Shelton, John F., 4,635,188, Cl. 364-200.000.
Wilson, John R., 4,656,598, Cl. 364-550.000.
Worley, William S., Jr., 4,649,478, Cl. 364-200.000.
Worley, William S., Jr.; Bryg, William R.; and Baum, Allen, 4,713,755, Cl. 364-200.000.
Yagi, Kazuyuki, 4,654,585, Cl. 324-83.00Q.
Young, James E., 4,669,281, Cl. 70-57.000.

Hewson, Brian: *See—*
Palmin, Simyon; and Hewson, Brian, 4,703,238, Cl. 318-563.000.

Hewson, Carl E., to Brunswick Manufacturing Co., Inc. Method and apparatus for controlled breathing employing internal and external electrodes. 4,683,890, 8-4-87, Cl. 128-419.0PG.

Hex Plastics, Inc.: *See—*
Heck, Paul; and Haffner, Eugene F., 4,643,337, Cl. 222-214.000.

Hexamer, Donald K.: *See—*
Ebrahim, Sajjad; and Hexamer, Donald K., 4,684,024, Cl. 206-464.000.

Hexcel Corporation: *See—*
Gottwald, William H.; Bandak, Michel N.; and Bitzer, Thomas N., 4,658,941, Cl. 188-377.000.
Hull, Harold R., 4,675,241, Cl. 428-116.000.
Lin, Steve, 4,643,734, Cl. 623-16.000.

Hey, Heinz-Herbert, to C.E.M.A.N. Special-Container GmbH. Cargo carrier. 4,633,799, 1-6-87, Cl. 114-72.000.

Heybourn, Frank; Carter, David C. M.; and Griffiths, Allen F., to Molins PLC. Conveyor system for rod-like articles. 4,653,631, 3-31-87, Cl. 198-778.000.

Heyde, Hans H., to Lorenzetti-Inebrasa S/A. Portable breakload tool. 4,700,028, 10-13-87, Cl. 200-146.00R.

Heyde, Hans H., to Lorenzetti-Inebrasa S/A. Electric arc breaker. 4,704,508, 11-3-87, Cl. 200-148.00A.

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Heyden, Eugene L. Placement marking system for endotracheal tubes. 4,649,915, 3-17-87, Cl. 128-207.170.

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Heyden, Gunter, to Winkler & Dunnebier Maschinenfabrik und Eisengiesserei GmbH & Co. KG. Apparatus for cutting a moving material web to shape by burning with a laser beam. 4,645,900, 2-24-87, Cl. 219-121.0LG.

Heyer, Peter: *See—*
Buchegger, Rudolf; Hirschmanner, Franz; and Heyer, Peter, 4,703,640, Cl. 72-128.000.

Heyes, Graham: *See—*
Hollowood, John; Jackson, Arthur; and Heyes, Graham, 4,687,845, Cl. 544-54.000.

Heyl, Leo W., to Mosler, Inc. Depository. 4,665,839, 5-19-87, Cl. 109-24.100.

Heyl & Patterson, Inc.: *See—*
Graner, Joseph R., 4,690,603, Cl. 414-372.000.

Heylen, Raymond A.; and Boets, Marc J., to Agfa-Gevaert N.V. Light-sensitive photographic film packaging. 4,715,500, 12-29-87, Cl. 206-397.000.

Heyler, Charles J., III: *See—*
Dubrul, William R.; and Heyler, Charles J., III, 4,671,255, Cl. 128-1.00R.

Heyligenstaedt & Comp. Werkzeugmaschinenfabrik GmbH: *See—*
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Zdunek, Kenneth J.; Heyman, Bruce D.; and Sasuta, Michael D 4,646,345, Cl. 379-62.000.

Heyman, Duane A.: *See—*
Davis, John E.; and Heyman, Duane A., 4,661,531, Cl. 521-137.0
Ramlow, Gerhard G.; Heyman, Duane A.; Grace, Oscar M.; Re chel, Curtis J.; and Hartman, Robert J., 4,689,354, C 521-137.000.
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Heyman, J. Tad: *See—*
Shaw, Mark D.; Heyman, J. Tad; and Bierce, Laurence M 4,708,258, Cl. 220-288.000.

Heyman, Neal R. Bumper guard. 4,641,870, 2-10-87, Cl. 293-102.0

Heyman, Philip M.: *See—*
Quinn, Robert L.; Heyman, Philip M.; and Goldman, Abraha 4,670,295, Cl. 427-54.100.

Heymer, Gero: *See—*
Elsner, Georg; Staendeke, Horst; and Heymer, Gero, 4,639,331, C 252-609.000.
Gradl, Reinhard; and Heymer, Gero, 4,678,650, Cl. 423-309.00
Schimmel, Gunther; Gradl, Reinhard; and Heymer, Ger 4,668,492, Cl. 423-321.00R.
Schimmel, Gunther; Kowalski, Werner; Heymer, Gero; and Grad Reinhard, 4,705,529, Cl. 23-293.00R.

Heymes, Alain: *See—*
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Andre, Jean-Daniel; Grossi, Pierre-Jean; Heymes, Alain; and Mazaroli, Giovanni V., 4,713,485, Cl. 562-470.000.

Heyn, Lynn E.; Johnson, Malcolm L.; and Fischer, Danial O., to Kimberly-Clarke Corporation. Cover garment with inner garment acce option. 4,709,419, 12-1-87, Cl. 2-46.000.

Heynau, Hans A., to United Technologies Corporation. Active Q switched laser cartridge. 4,700,351, 10-13-87, Cl. 372-13.000.

Heyne, Carl J.; Hackworth, Donald T.; Docherty, Edward F.; an Shestak, Edward J., to Westinghouse Electric Corp. High spe brushless dynamoelectric machine with improved control whe assembly for excitation system components. 4,672,248, 6-9-87, C 310-68.00D.

Heyne, Carl J.; and Tomasic, Nicholas A., to Westinghouse Electr Corp. Circuit breaker having shock-proof trip-actuating assemb 4,710,739, 12-1-87, Cl. 335-174.000.

Heyne, Carl J.: *See—*
Mallick, George T., Jr.; and Heyne, Carl J., 4,704,569, C 318-718.000.

Heyneker, Herbert L.: *See—*
Goeddel, David V.; and Heyneker, Herbert L., 4,634,677, C 435-317.000.
Goeddel, David V.; and Heyneker, Herbert L., 4,658,021, C 530-399.000.
Kleid, Dennis G.; Yansura, Daniel G.; Heyneker, Herbert L.; an Miozzari, Giuseppe F., 4,663,283, Cl. 435-91.000.

Heynemann, Carl: *See—*
Ghibu, Michael; Hartel, Volker; Heynemann, Carl; and Raubach Manfred, 4,683,979, Cl. 181-286.000.

Heynen, Andreas T.: *See—*
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Heynisch, Hinrich; and Huebner, Klemens, to Siemens Aktiengesellschaft. Air-cooled discharge tube for an ion laser. 4,698,818, 10-6-8 Cl. 372-34.000.

Heynisch, Hinrich: *See—*
Barth, Heinz; Hubner, Erwin; Heynisch, Hinrich; and Schneide Adolf, 4,653,060, Cl. 372-61.000.

Heyraud, Georges, to Forges Stephanoises S.A. Lightweight electronic torque wrench. 4,641,538, 2-10-87, Cl. 73-862.260.

Heyraud, Georges, to Forges Stephanoises S.A. Electronic torque wrench. 4,669,319, 6-2-87, Cl. 73-962.230.

Heyraud, Marc, to Asgalium S.A. DC motor with commutator rotor 4,716,330, 12-29-87, Cl. 310-233.000.

Heyraud, Marc A., to Asgalium S.A. Electromechanical transducer having a self-inductance cancelling coil assembly. 4,634,912, 1-6-8 Cl. 310-268.000.

Heyraud, Marc A., to Asgalium S.A. DC motor. 4,661,733, 4-28-87, C 310-68.00R.

Heyraud, Marc A., to Asgalium S.A. Electric motor having auxiliary portions distributed at a pitch which is an odd number sub-multiple of the pitch of active portions. 4,677,332, 6-30-87, Cl. 310-184.000.

Heyraud, Marc A.; and Kureth, Jean-Bernard, to Asgalium S.A. Electric motor drive equipped with a permanently magnetized rotor 4,684,860, 8-4-87, Cl. 318-696.000.

Heys, George, Jr.; Aleshire, Rex A.; Hines, Frank; and Belknap, William M., to NCR Corporation. System for selectively coupling a plurality of stations into a single communications path. 4,682,32 7-21-87, Cl. 370-85.000.

Heys, George, Jr.; Aleshire, Rex A.; and Sampson, Harold J., to NCR Corporation. Protective cover for housing for data processing mechanism. 4,698,707, 10-6-87, Cl. 360-99.000.

Heywood, Clifford, to Telephone Cables Limited. Optical fibre cables 4,707,074, 11-17-87, Cl. 350-96.230.

Heywood, R. G.: *See—*
Clark, Gary E., 4,638,997, Cl. 273-1.0GD.

- Heyworth, Malcolm I., to E&A Heyworth Enterprises, Inc. Plastic pipe planing device. 4,693,643, 9-15-87, Cl. 408-82.000.
- HGM, Incorporated: *See—*
  - Chaffee, Edwin G.; Holtman, Steve; Nelson, George A.; and Tanner, Howard M. C., 4,633,872, Cl. 128-303.100.
- Hi-Ranger, Inc.: *See—*
  - Holmes, William K., 4,633,977, Cl. 187-9.00R.
  - Holmes, William K., 4,660,730, Cl. 212-163.000.
- Hi-Shear Corporation: *See—*
  - Berg, Robert E., 4,671,715, Cl. 411-8.000.
  - Olander, Donald E., 4,649,795, Cl. 89-1.140.
  - Olander, Donald E., 4,668,583, Cl. 428-408.000.
- Hi-Speed Checkweigher Co., Inc.: *See—*
  - Del Rosso, Victor, 4,689,615, Cl. 340-722.000.
- Hi-Stat Manufacturing Co., Inc.: *See—*
  - Eshelman, Robert W., 4,646,042, Cl. 335-205.000.
- Hi-Tech Systems, Corp.: *See—*
  - Hametta, Allen W., 4,678,992, Cl. 324-208.000.
- Hi-Tek Polymers, Inc.: *See—*
  - Williams, Martin M.; Phelps, Martha A.; and Zody, George M., 4,647,385, Cl. 252-8.551.
- Hiab Export A/S: *See—*
  - Larsen, Gunnar M., 4,643,320, Cl. 212-180.000.
- Hiai, Athuhiko; Wakimura, Kazuo; and Tanaka, Masao, to Mitsui Toatsu Chemicals, Inc. Process for producing germanes. 4,656,013, 4-7-87, Cl. 423-89.000.
- Hiasa, Toshikazu; and Uchida, Hiroyuki, to Honda Giken Kogyo Kabushiki Kaisha. Two-cycle engine. 4,672,924, 6-16-87, Cl. 123-65.0PE.
- Hiasa, Toshikazu: *See—*
  - Oike, Ikuo; and Hiasa, Toshikazu, 4,671,375, Cl. 180-227.000.
- Hiatt, William R.; and Owades, Joseph L., to Calgene, Inc. Oxalic acid removal in beer production. 4,652,452, 3-24-87, Cl. 426-16.000.
- Hibari, Eiko: *See—*
  - Miyagawa, Tuyoshi; Hibari, Eiko; and Kagami, Mitsuharu, 4,677,682, Cl. 382-7.000.
- Hibbard Construction Co.: *See—*
  - Hibbard, Donald B., 4,702,053, Cl. 52-309.700.
- Hibbard, Donald B., to Hibbard Construction Co. Composite insulated wall. 4,702,053, 10-27-87, Cl. 52-309.700.
- Hibbard, Earl R., to Infoquest Corporation. Roll film document image storage and retrieval apparatus and system. 4,669,838, 6-2-87, Cl. 353-26.00A.
- Hibbel, Joseph: *See—*
  - Kessen, Gunther; Cornils, Boy; Gick, Wilhelm; Wiebus, Ernst; Hibbel, Joseph; Bach, Hanswilhelm; and Zgorzelski, Wolfgang, 4,684,750, Cl. 568-883.000.
  - Ulrichs, Klaus; Hibbel, Joseph; Schmidt, Volkmar; Lieder, Bernhard; Scheve, Heinrich; Schulze-Frenking, Burchard; Hofs, Wolfgang; and Nottebohm, Jurgen, 4,699,773, Cl. 423-396.000.
- Hibberd, Carl G. Paint roller cleaner apparatus. 4,708,152, 11-24-87, Cl. 134-138.000.
- Hibberd, Frank L.: *See—*
  - Sommers, Dale C.; Hibberd, Frank L.; and Jayko, Doreen M., 4,702,690, Cl. 131-110.000.
- Hibberd, Kenneth A.; Anderson, Paul C.; and Barker, Melanie, to Molecular Genetics Research and Development Limited Partnership. Tryptophan overproducer mutants of cereal crops. 4,642,411, 2-10-87, Cl. 800-1.000.
- Hibbert, David A.; Newmark, Larry J.; Smith, James I.; Brasel, Timothy C.; and Wung, Peter C. F., to General Electric Company. Molded plastic enclosure for disconnect switches. 4,675,782, 6-23-87, Cl. 361-356.000.
- Hibbert, David A.; and Newmark, Larry J., to General Electric Company. Compact non-metallic load center enclosure. 4,698,727, 10-6-87, Cl. 361-356.000.
- Hibbert, David A.: *See—*
  - Newmark, Larry J.; and Hibbert, David A., 4,688,146, Cl. 361-364.000.
- Hibbs, Jerry M. Adhesively secured anchor. 4,652,193, 3-24-87, Cl. 411-82.000.
- Hibdon, Freddy M.: *See—*
  - Moore, Lawrence C.; Hibdon, Freddy M.; Howell, James M.; and Blalock, James E., 4,688,499, Cl. 112-121.120.
- Hibert, Marcel: *See—*
  - Gittos, Maurice W.; and Hibert, Marcel, 4,696,927, Cl. 514-236.000.
  - Gittos, Maurice W.; and Hibert, Marcel, 4,704,389, Cl. 514-226.000.
- Hibi, Kazuhiro: *See—*
  - Nonaka, Masami; Kato, Noboru; and Hibi, Kazuhiro, 4,677,401, Cl. 333-167.000.
- Hibi, Takuo: *See—*
  - Araki, Masashi; and Hibi, Takuo, 4,681,979, Cl. 585-640.000.
- Hibino, Ikuo, to Alps Electric Co., Ltd. Thermal printer. 4,653,939, 3-31-87, Cl. 400-120.000.
- Hibino, Ikuo; and Umeki, Koichi, to Alps Electric Co., Ltd. Thermal lift-off correctible record and erase printer. 4,654,674, 3-31-87, Cl. 346-76.0PH.
- Hibino, Ikuo, to Alps Electric Co., Ltd. Thermal printer. 4,700,200, 10-13-87, Cl. 346-76.0PH.
- Hibino, Ikuo: *See—*
  - Nakamura, Tadashi; and Hibino, Ikuo, 4,651,162, Cl. 346-1.100.
- Hibino, Junichi: *See—*
  - Takahashi, Hatsuo; and Hibino, Junichi, 4,658,313, Cl. 360-98.000.
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Hickling, Colin D., to Trig, Inc. Dynamically optimized thermostat (dot) with tunable bimetal element. 4,682,141, 7-21-87, Cl. 337-379.000.
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Hickmann, Udo; and Ruehle, Guenter, to Dr. Ing. h.c.F. Porsche Aktiengesellschaft. Torque transfer device and engageable, shiftable clutch in an all-wheel drive arrangement for a motor vehicle. 4,700,820, 10-20-87, Cl. 192-48.500.
Hickner, Richard A.: *See*—
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Hickok, William K., to Eastman Kodak Company. Method and apparatus for combining two color video signals. 4,691,245, 9-1-87, Cl. 358-310.000.
Hickory, Gordon E.: *See*—
Narayanan, Kesh S.; and Hickory, Gordon E., 4,682,988, Cl. 51-298.000.
Hickory Springs Manufacturing Company, Inc.: *See*—
Kowalski, Jerome R., 4,660,883, Cl. 297-85.000.
Hickox, John: *See*—
Scott, James W.; and Hickox, John, 4,691,699, Cl. 128-91.00A.
Hickox, Robert E., to Burr-Brown Corporation. Apparatus and method for a pressure-sensitive device. 4,672,853, 6-16-87, Cl. 73-708.000.
Hicks, Bruce W.: *See*—
Mason, John Y.; and Hicks, Bruce W., 4,689,169, Cl. 252-186.240.
Hicks, Cecil B. Electro-mechanical security lock. 4,677,834, 7-7-87, Cl. 70-279.000.
Hicks, Charles D., to Rochez Bros. Inc. Die set. 4,662,256, 5-5-87, Cl. 83-124.000.
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Pohl, Walter J.; McCarty, William J.; and Hicks, Frederick E., 4,662,184, Cl. 62-156.000.
Hicks, Harry H.; and Davenport, Gerald E. Window guard latch with emergency release. 4,685,316, 8-11-87, Cl. 70-256.000.
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Hicks, Irwin A., to American Meter Company. Diaphragm gas meter. 4,706,496, 11-17-87, Cl. 73-268.000.
Hicks, Jimmy L., to P & H Sales Co. Shopping cart friction wheel assembly. 4,633,544, 1-6-87, Cl. 16-35.00R.
Hicks, John E., to Outboard Marine Corporation. Vehicle seat switch. 4,655,313, 4-7-87, Cl. 180-273.000.
Hicks, John W., Jr., to Polaroid Corporation. Single material optical fiber and method. 4,634,218, 1-6-87, Cl. 350-96.300.
Hicks, John W., Jr., to Polaroid Corporation. Fiber optic interferometer transducer. 4,659,923, 4-21-87, Cl. 250-227.000.
Hicks, John W., Jr., to Polaroid Corporation. Adscititious resonator. 4,676,583, 6-30-87, Cl. 350-96.150.
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Hicks, John W., Jr., to Polaroid Corporation. Ensheathed optical fiber and coupling method. 4,709,986, 12-1-87, Cl. 350-96.330.
Hicks, Josephine. Disposable try-on's. 4,698,855, 10-13-87, Cl. 2-402.000.
Hicks, Loy A., Jr.; Sherwood, Edward P.; and Saks, Thomas J., to Eaton Corporation. Bus duct having improved bus bar clamping structure. 4,678,253, 7-7-87, Cl. 439-210.000.
Hicks, Michael E.: *See*—
Roe, Malcolm D. M.; and Hicks, Michael E., 4,700,149, Cl. 332-7.510.
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Hicks, Michael S.; and Vannauker, David L., to Mobil Oil Corporation. Method of producing lube stocks from waxy crudes. 4,678,556, 7-7-87, Cl. 208-96.000.
Hicks, Peter A. R.: *See*—
Ireland, Eric; O'Brien, Rory M.; Wall, Barrie; Hicks, Peter A. R.; and Zaremba, Zbigniew, 4,665,625, Cl. 33-530.000.
Hicks, Raymond J., to Hicks Transmissions Limited. Gear mounting. 4,700,583, 10-20-87, Cl. 74-410.000.
Hicks, Raymond J.: *See*—
Brogdon, James W.; Allen, Kenneth D.; Barton, John S.; and Hicks, Raymond J., 4,640,153, Cl. 74-789.000.
Hicks, Robert R., to Barber, James E. Dual access newspaper receptacle. 4,660,757, 4-28-87, Cl. 232-1.00C.
Hicks, Roger J.; and Hufgard, John W., to Bessam-Aire, Inc. Apparatus for cleaning and conditioning gas. 4,640,696, 2-3-87, Cl. 55-227.000.
Hicks, Roy L.: *See*—
Dang, Hiep D.; Hicks, Roy L.; and Leathers, Joel F. M., 4,660,308, Cl. 38-102.400.
Hicks, Thomas S.: *See*—
Svenson, Richard N.; Hicks, Thomas S.; and Good, Thomas N., 4,669,029, Cl. 361-392.000.
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Hicks, W. Glen. Method and apparatus for varying a vehicle wheelbase. 4,660,843, 4-28-87, Cl. 280-80.00B.
Hida, Junichi; Tsukiyama, Yasumitsu; Kito, Yoshikazu; and Tatematsu, Susumu, to Hoshizaki Electric Co., Ltd. Auger type ice-making apparatus. 4,644,757, 2-24-87, Cl. 62-188.000.
Hida, Takao: *See*—
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Hida, Yoshinori; and Kozakai, Shohei, to Shin-Etsu Chemical Co., Ltd. Novel organopolysiloxane, method for the preparation thereof and composition containing the same. 4,683,320, 7-28-87, Cl. 556-453.000.
Hida, Yoshinori; Meguriya, Noriyuki; and Yoshida, Akira, to Shin-Etsu Chemical Co., Ltd. Surface-coated optical fiber. 4,697,877, 10-6-87, Cl. 350-96.300.
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Kondow, Kiyohiro; Takasaka, Nobuo; and Hida, Yoshinori, 4,660,927, Cl. 350-96.340.
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Ooi, Katsunori; Hidai, Yutaka; Kurosawa, Yoshiaki; and Nakamura, Yoshikatsu, 4,685,142, Cl. 382-13.000.
Hidaka, Akio: *See*—
Watanabe, Teruoki; Nakamura, Yahiko; Hidaka, Akio; Kobayashi, Shunji; and Nozaki, Hiroyoshi, 4,659,628, Cl. 428-457.000.
Hidaka, Chikara: *See*—
Wada, Minoru; Hidaka, Chikara; and Noma, Takeshi, 4,697,744, Cl. 241-20.000.
Hidaka, Hidemasa: *See*—
Adachi, Takashi; and Hidaka, Hidemasa, 4,681,771, Cl. 426-658.000.
Hidaka, Hideto: *See*—
Kumanoya, Masaki; Fujishima, Kazuyasu; Miyatake, Hideshi; Hidaka, Hideto; Dosaka, Katsumi; and Yoshihara, Tsutomu, 4,675,850, Cl. 365-230.000.
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Hidaka, Kazutaka; and Suehiro, Kenji, to Tokyo Shibaura Denki Kabushiki Kaisha. Antenna apparatus with tuned loop. 4,647,937, 3-3-87, Cl. 343-742.000.
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  Fukuda, Hideo; Ogawa, Takahira; and Fujii, Takao, 4,698,304, Cl. 435-166.000.

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  Kanno, Masayoshi; Hideshima, Yasuhiro; Tsurumaru, Shinobu; and Kanayama, Ikuo, 4,691,236, Cl. 358-181.000.
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Hieber, Thomas E.: *See—*
  Danner, Michael E.; and Hieber, Thomas E., 4,698,166, Cl. 210-774.000.

Hiebl, Berthold: *See—*
  Angermann, Gottfried; and Hiebl, Berthold, 4,689,838, Cl. 2-441.000.

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  Saito, Teruo; and Hieda, Kazuo, 4,699,944, Cl. 524-413.000.

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  Kyuma, Kenji; and Hieda, Teruo, 4,712,138, Cl. 358-213.310.

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Hieronymi, Richard: *See—*
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  Schmid, Herbert; and Hiestand, Karl, 4,677,885, Cl. 82-40.00R.

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  Matsuoka, Mamoru; and Higa, Osamu, 4,665,458, Cl. 361-18.000.

Higa, Tatsuo; and Snader, Kenneth M., to Harbor Branch Oceanographic Institution Inc. Antiviral and antitumor cyclohexadienone compositions. 4,708,962, 11-24-87, Cl. 514-475.000.

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  Takigawa, Noboru; Fujita, Kenji; Kawase, Katsumi; and Higaki, Takahiro, 4,668,301, Cl. 134-6.000.

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  Omura, Ikuo; Higaki, Tatsuhiko; and Yamauchi, Junichi, 4,648,844, Cl. 433-217.100.

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  Tanaka, Hideki; Tokushima, Takashige; Higashi, Haruki; and Hamada, Shigeki, 4,699,097, Cl. 123-192.00R.

Higashi, Hidehiro: *See—*
  Yoshida, Shinichi; Higashi, Hidehiro; Yano, Takemithu; and Fuchikami, Jun, 4,668,649, Cl. 502-79.000.

Higashi, Housei; Terayama, Takao; Nishijima, Hideo; and Nakamura, Hiroshi, to Hitachi, Ltd. Apparatus for recording and/or reproducing video signals. 4,675,752, 6-23-87, Cl. 360-10.300.

Higashi, Kanji, to Kabushiki Kaisha Bandai. Safety razor. 4,638,560, 1-27-87, Cl. 30-47.000.

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  Ohta, Tomozo; Higashi, Kazutada; and Yamamoto, Hirohiko, 4,712,111, Cl. 343-779.000.

Higashi, Kenji; Ohnishi, Tadakazu; and Tsukuda, Ichizo, to Showa Aluminum Kabushiki Kaisha. Aluminum alloys having high strength and resistance to stress and corrosion. 4,713,216, 12-15-87, Cl. 420-532.000.

Higashi, Michiya: *See—*
  Ikeya, Hirotoshi; and Higashi, Michiya, 4,710,796, Cl. 357-72.000.

Higashi, Mikio: *See—*
  Goto, Teruo; Takata, Yoshirou; Muraji, Kenji; and Higashi, Mikio, 4,698,622, Cl. 340-648.000.
  Nishida, Hiroshi; Yamamoto, Fujio; Higashi, Mikio; and Naruse, Jun, 4,677,509, Cl. 360-97.000.

Higashi, Mitsunobu: *See—*
  Tanaka, Hiroyuki; Takami, Eiichi; Mishima, Kyoichi; Higashi, Mitsunobu; and Kumasaki, Toshimi, 4,702,729, Cl. 474-205.000.

Higashi, Nobuaki; Nakajima, Nobuyoshi; and Tanaka, Hirosi, to Fuji Photo Film Co., Ltd. Radiation image read-out and gradation processing method and apparatus with means to select between different gains for gradation processing. 4,652,999, 3-24-87, Cl. 364-414.000.

Higashi, Nobuaki: *See—*
  Asai, Eiichi; Tanaka, Hiroshi; and Higashi, Nobuaki, 4,641,267, Cl. 364-414.000.

Higashi, Robert E.; James, Steven D.; Johnson, Robert G.; and Satren, Ernest A., to Honeywell Inc. Microscopic size, thermal conductivity type, air or gas absolute pressure sensor. 4,682,503, 7-28-87, Cl. 73-755.000.

Higashi, Robert E., to Honeywell Inc. Semiconductor device microstructure. 4,696,188, 9-29-87, Cl. 73-204.000.

Higashi, Robert E.: *See—*
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Higashi, Ryoji; and Nomura, Satoru, to Pioneer Electronic Corporation. Video disc type recording and reproducing system with interference reduction filter. 4,683,502, 7-28-87, Cl. 358-342.000.

Higashi, Sachio: *See—*
  Nishino, Kenichi; Kobayashi, Atsuo; Higashi, Sachio; Yamamoto, Shinichiro; and Yasuda, Kiyoshi, 4,640,950, Cl. 524-265.000.

Higashi, Toshihiko; and Tennichi, Yasuhiro, to Hitachi, Ltd. Steam turbine governor system and method of controlling the same. 4,658,590, 4-21-87, Cl. 60-660.000.

Higashida, Kenji: *See—*
  Awano, Yoshiro; Suzuki, Hiroshi; Mizuno, Takaji; Ueguri, Shigeo; and Higashida, Kenji, 4,697,062, Cl. 219-130.510.

Higashigaki, Yoshiyuki; Yoshimoto, Yoshikazu; Suzuki, Tomonari; Nakajima, Shigeo; and Inoguchi, Toshio, to Sharp Kabushiki Kaisha. Methods and materials for thermoelectric and light-heat conversion. 4,714,639, 12-22-87, Cl. 428-36.000.

Higashigawa, Masahiro: *See—*
  Imamura, Hiroshi; Nakai, Katsumasa; Higashigawa, Masahiro; and Toho, Makoto, 4,665,341, Cl. 313-493.000.

Higashigawa, Yasuyuki: *See—*
  Ikeda, Minoru; and Higashigawa, Yasuyuki, 4,674,054, Cl. 364-477.000.

Higashiguchi, Shigehiko, to Kabushiki Kaisha Tokyo Horaisha. Method of forming flock patterns. 4,687,527, 8-18-87, Cl. 156-72.000.

Higashihara, To[illegible]hio: See—
Matsushima, [illegible]ichi; Higashihara, Toshio; Shimizu, Mitsuru; Yoshizawa, Ke[illegible]; Suzuki, Masahiro; and Sugiyama, Toshinori, 4,710,913, Cl. 3[illegible]-280.000.
Higashimoto Kikai Co., Ltd.: See—
Higashimoto, Tsuyoshi, 4,690,336, Cl. 241-30.000.
Higashimoto, Tsuyoshi, 4,691,411, Cl. 17-49.000.
Higashimoto, Takashi: See—
Fukushima, Noriyasu; and Higashimoto, Takashi, 4,674,699, Cl. 242-84.52B.
Higashimoto, Tsuyoshi, to Higashimoto Kikai Co., Ltd. Apparatus and method for driving raw sausage meat processing cutter. 4,690,336, 9-1-87, Cl. 241-30.000.
Higashimoto, Tsuyoshi, to Higashimoto Kikai Co., Ltd. Method and apparatus for feeding meat. 4,691,411, 9-8-87, Cl. 17-49.000.
Higashimura, Toshinobu; Sawamoto, Mitsuo; Toyoshima, Yoshiki; Kanagawa, Shuuichi; Takahashi, Tsutomu; and Saito, Noriaki, to Sumitomo Chemical Company, Limited. Process for preparation of reactive polymers and polymers prepared by said process. 4,696,988, 9-29-87, Cl. 526-220.000.
Higashinakagawa, Iwao: See—
Inoue, Tomoyasu; Tango, Hiroyuki; Suguro, Kyoichi; Higashinakagawa, Iwao; and Hamasaki, Toshihiko, 4,662,949, Cl. 148-1.500.
Higashino, Hiroyuki; and Ohkawa, Hideki, to Kabushiki Kaisha Toshiba. Electroforming method and electroforming apparatus. 4,696,721, 9-29-87, Cl. 204-3.000.
Higashino, Shigenori, to Mitsubishi Denki Kabushiki Kaisha. Superconductive energy storage circuit. 4,695,932, 9-22-87, Cl. 363-14.000.
Higashino, Shigenori: See—
Kawabata, Takao; and Higashino, Shigenori, 4,677,535, Cl. 363-65.000.
Nakamura, Tooru; and Higashino, Shigenori, 4,636,929, Cl. 363-56.000.
Higashino, Takeshi: See—
Hosoya, Nobukazu; Murakami, Yoshihiro; Higashino, Takeshi; and Harai, Yoshihiro, 4,652,778, Cl. 307-603.000.
Higashio, Kanji: See—
Sinskey, Anthony J.; Walker, Graham C.; Higashio, Kanji; Rao, Eswara A.; Shanabruch, William G.; and Yoshihama, Makoto, 4,649,119, Cl. 435-317.000.
Higashio, Yasuhiko; and Takahashi, Kazuteru, to Sumitomo Chemical Company, Ltd. Production of 2,5-dimethyl-2,4-hexadiene. 4,684,758, 8-4-87, Cl. 585-608.000.
Higashitsuji, Ken: See—
Wakita, Kazuto; Tsuchiya, Kazuo; Kobayashi, Kazuaki; Higashitsuji, Ken; and Kojima, Teruhisa, 4,675,143, Cl. 264-104.000.
Higashitsutsumi, Yoshihito: See—
Toyonaga, Kenji; Higashitsutsumi, Yoshihito; Yanai, Akihiro; and Akiyama, Toru, 4,667,338, Cl. 377-45.000.
Toyonaga, Kenji; Higashitsutsumi, Yoshihito; and Yanai, Akihiro, 4,689,785, Cl. 370-85.000.
Higashiura, Tadashi: See—
Harada, Tokuya; and Higashiura, Tadashi, 4,673,644, Cl. 435-101.000.
Higashiyama, Kazuhiro, to Nissan Motor Company Limited. Spark control system for an engine. 4,690,124, 9-1-87, Cl. 123-643.000.
Higashiyama, Mitsuo, to Sony Corporation. Signal transmission apparatus for a multiple channel system and method for using the same. 4,679,225, 7-7-87, Cl. 379-62.000.
Higashiyama, Naotoshi: See—
Miura, Masami; and Higashiyama, Naotoshi, 4,674,121, Cl. 381-10.000.
Higashizima, Harumi: See—
Kamiwada, Minoru; Saruwatari, Kazuyuki; Shimada, Kazuaki; and Higashizima, Harumi, 4,680,116, Cl. 210-282.000.
Higaya, Toshiaki; Ogura, Masaaki; Yano, Takato; Hashizume, Kiyozo; Ogawa, Toshiyuki; and Seko, Nachio, to Ricoh Company, Ltd. Cleaning method for use in electrophotography. 4,640,608, 2-3-87, Cl. 355-15.000.
Higbee, Wallace C., to TRW Automotive Products Inc. Belt turning ring and clamping device. 4,650,214, 3-17-87, Cl. 280-808.000.
Higbee, Wallace C., to TRW Automotive Products Inc. Planetary inertial seat belt retractor. 4,691,875, 9-8-87, Cl. 242-107.40B.
Higbie, Lee: See—
Chen, Steve S.; Schiffleger, Alan J.; Somdahl, Eugene R.; and Higbie, Lee, 4,636,942, Cl. 364-200.000.
Higbie, Robert E.; and Beebe, James C., to Eagle-Picher Industries, Inc. Method and apparatus for controlling the automatic inflation of tires for testing. 4,702,287, 10-27-87, Cl. 141-4.000.
Higdon, Robert. Drill bits with cone retention means. 4,657,091, 4-14-87, Cl. 175-229.000.
Higeta, Kazuya; Daikoku, Takahiro; Fujioka, Kazumasa; and Nakajima, Isao, to Hitachi, Ltd. Thermal head for thermal printer. 4,672,392, 6-9-87, Cl. 346-76.0PH.
Higginbotham, Clark A.; and Wichmann, James W., to DeSoto, Inc. Thermosetting fluorocarbon polymer primers. 4,684,677, 8-4-87, Cl. 523-435.000.
Higginbotham, Clark A.: See—
Tortorello, Anthony J.; and Higginbotham, Clark A., 4,659,768, Cl. 524-512.000.
Higginbotham, William C., to Westinghouse Electric Corp. Barrier for quartz crucible for drawing silicon dendritic web and method of use. 4,698,120, 10-6-87, Cl. 156-608.000.
Higgins, Alan S.: See—
Killough, Ray B.; Higgins, Alan S.; and Broome, Thomas R
4,658,634, Cl. 73-3.000.
Higgins, Bobby W.: See—
Knapp, George P.; Higgins, Bobby W.; and Roller, Durward R
4,709,337, Cl. 364-468.000.
Higgins, Brian J.: See—
Bergman, Roger M.; Bielecki, Edwin J.; Higgins, Brian J.; an
Romberger, Karl A., 4,663,130, Cl. 423-68.000.
Higgins, Daniel E.; and Easley, James C., to Storz Instrument Company. Vitrectomy cutting mechanism. 4,696,298, 9-29-87, Cl. 128-305.000.
Higgins, David C.: See—
Buxton, Clifford A.; Higgins, David C.; and Volesky, Gary A
4,693,132, Cl. 74-425.000.
Higgins, George: See—
Cable, Jane; and Higgins, George, 4,644,029, Cl. 524-407.000.
Higgins, Irving J.; Hill, Hugh A. O.; and Plotkin, Elliot V., to Gene
International, Inc. Sensor for components of a liquid mixture
4,711,245, 12-8-87, Cl. 128-635.000.
Higgins, Irwin R. Simultaneous electro-deposition of manganese or
manganese dioxide. 4,707,227, 11-17-87, Cl. 204-96.000.
Higgins, J. Aiden, to Rockwell International Corporation. Gapless ga
charge coupled device. 4,675,714, 6-23-87, Cl. 357-24.000.
Higgins, John R. Roof mounted foldable sign. 4,662,075, 5-5-87, Cl
40-592.000.
Higgins, Kenneth B., to Milliken Research Corporation. Carpet underlay. 4,647,484, 3-3-87, Cl. 428-40.000.
Higgins, Larry; and Wells, Thomas J., to Leggett & Platt, Incorporated. Box spring having improved coil spring modules. 4,665,162, 5-11-87, Cl. 5-247.000.
Higgins, Larry, to Leggett & Platt, Incorporated. Bedding coil spring unit and assembly method. 4,705,079, 11-10-87, Cl. 140-3.0CA.
Higgins, Marvin L.; Eaton, Bill; Cooper, Eugene A.; and Cordy, Clifford B., Jr., to Hewlett-Packard Company. Electroluminescent display drive system. 4,707,692, 11-17-87, Cl. 340-805.000.
Higgins, Marvin L.: See—
Eaton, Bill; and Higgins, Marvin L., 4,642,524, Cl. 315-169.300.
Higgins, Maureen L., to Procter & Gamble Company, The. Adhesive attachment means for absorbent articles. 4,690,680, 9-1-87, Cl. 604-386.000.
Higgins, Robert J., Jr., to Motorola, Inc. Method of manufacturing an electrically variable piezoelectric hybrid capacitor. 4,675,9
6-30-87, Cl. 29-25.350.
Higgins, Robert J., Jr., to Motorola Inc. Electrically variable piezoelectric hybrid capacitor. 4,716,331, 12-29-87, Cl. 310-330.000.
Higgins, Ronald D.: See—
Barbare, Walter L.; Willey, Harley M.; and Higgins, Ronald D.
4,706,280, Cl. 379-284.000.
Higginson, John A.: See—
Bibl, Andreas; Day, Gene F.; and Higginson, John A., 4,706,8
Cl. 118-631.000.
Higgs, Jacob K., to Sprague Electric Company. Integrated circuit Hall switch with adjustable operate point. 4,705,964, 11-10-87, Cl. 307-278.000.
Higgs, Jacob K., to Sprague Electric Company. Integrated Hall element and amplifier with controlled offset voltage. 4,709,2
11-24-87, Cl. 330-6.000.
Higgs, James R. Money clip. 4,675,953, 6-30-87, Cl. 24-499.000.
Higgs, Robert J.: See—
Shade, James W.; and Higgs, Robert J., 4,702,502, Cl. 285-231.0
High Brandon Incorporated: See—
Shu, Brandon, 4,681,083, Cl. 126-9.00R.
High Resolution Sciences, Inc.: See—
Schine, Jonathan M., 4,703,319, Cl. 340-723.000.
High Resolution Television, Inc.: See—
Phelps, Arthur C., 4,661,840, Cl. 358-16.000.
Schine, Jonathan M., 4,639,766, Cl. 358-21.00R.
Schine, Jonathan M., 4,697,177, Cl. 340-728.000.
Songer, Jimmie D., 4,710,799, Cl. 358-12.000.
High Steel Structures, Inc.: See—
Greineder, Walter M., 4,659,904, Cl. 219-130.210.
High Tech Homes, Inc.: See—
Oboler, Leonard; and Schram, John M., 4,674,242, Cl. 52-91.000.
High Voltage Engineering Corporation: See—
Glaister, Frank J., 4,637,955, Cl. 428-379.000.
Glaister, Frank J., 4,666,642, Cl. 264-22.000.
Highby, Dennis N., to Cabela's Inc. Casting rod having one-piece
and handle body. 4,703,578, 11-3-87, Cl. 43-18.100.
Highfield, James H.; and Pugh, Roy, to Kirby's Engineers, Ltd. Rotary die cutting machine. 4,643,062, 2-17-87, Cl. 83-285.000.
Highland Import Corporation: See—
Bianchini, William L.; and Duclos, Gary P., 4,704,808, Cl. 36-102.000.
Highland Laboratories: See—
Poitras, James W.; and Wlodyka, Edwin W., 4,679,709, Cl. 222-180.000.
Highland Manufacturing & Sales Company: See—
Weder, Donald E.; Weder, Erin H.; Ruth, Howard M.; King, Michael J.; Craig, Franklin J.; Jones, Larry J.; Badgley, Kenton D.; Snider, Harry J., deceased; Snider, Laura, legal representative; Dye, S. Owen; Wiedner, Clay R.; Weder, Bill C.; and Langenberg, Robert L., 4,646,388, Cl. 19-80.00R.
Highland Queen Sportswear Limited: See—
Weiser, Howard, 4,662,008, Cl. 2-211.000.

Highlight Industries, Inc.: *See*—
  Riemenschneider, Paul K., 4,706,442, Cl. 53-556.000.
Highsmith, Stephen C.: *See*—
  McGill, Stephen T.; and McGill, Bette L., 4,688,023, Cl. 340-545.000.
Highstreet, Edward J.: *See*—
  Stannard, Forrest B.; and Highstreet, Edward J., 4,681,689, Cl. 210-784.000.
  Stannard, Forrest B.; and Highstreet, Edward J., 4,692,248, Cl. 210-403.000.
Hight, Andrew T., to Lever Brothers Company. Cool water fabric washing process using a particulate detergent containing a nonionic and a fatty acid builder salt. 4,695,284, 9-22-87, Cl. 8-137.000.
Hight, Margaret A., to Texaco Inc. Patterns of vertical and horizontal wells for improving oil recovery efficiency. 4,637,461, 1-20-87, Cl. 166-245.000.
Hight, Margaret A.: *See*—
  Huang, Wann-Sheng; and Hight, Margaret A., 4,645,003, Cl. 166-245.000.
  Huang, Wann-Sheng; and Hight, Margaret A., 4,646,824, Cl. 166-52.000.
  Huang, Wann-Sheng; and Hight, Margaret A., 4,662,441, Cl. 166-245.000.
  Huang, Wann-Sheng; and Hight, Margaret A., 4,682,652, Cl. 166-263.000.
  Huang, Wann-Sheng; and Hight, Margaret A., 4,685,515, Cl. 166-50.000.
  Huang, Wann-Sheng; and Hight, Margaret A., 4,700,779, Cl. 166-263.000.
  Huang, Wann-Sheng; and Hight, Margaret A., 4,702,314, Cl. 166-245.000.
Highton, Frederick J., to Burr-Brown Corporation. Level shifting circuitry for serial-to-parallel converter. 4,692,641, 9-8-87, Cl. 307-475.000.
Highton, Frederick J.: *See*—
  England, Arvid E.; Wynn, Stephen R.; Dolman, Rodney A.; Highton, Frederick J.; and Harris, Rickey D., 4,680,749, Cl. 370-11.000.
Hightower, Richard L., to Diamond, Arthur S., a part interest. Paper support bar for a sheet-fed printing press. 4,665,823, 5-19-87, Cl. 101-232.000.
Highway Products International Inc.: *See*—
  Swindall, William S.; Campbell, Brian R.; and Kobi, Donald H., 4,674,327, Cl. 73-146.000.
Higman, Roger H.: *See*—
  Heckaman, Douglas E.; Higman, Roger H.; and Frisco, Jeffrey A., 4,641,140, Cl. 342-371.000.
  Heckaman, Douglas E.; Higman, Roger H.; Frisco, Jeffrey A.; and Bajgrowicz, Edward J., 4,695,810, Cl. 333-1.000.
Higom, Arturo T.: *See*—
  Prieto, Agustin P.; Higom, Arturo T.; and Mata, Maria d. P. C., 4,675,315, Cl. 514-76.000.
Higomura, Makoto, to Canon Kabushiki Kaisha. Control system for positioning an object using switching from a speed control mode to a position control mode with adjustable brain. 4,710,865, 12-1-87, Cl. 364-170.000.
Higson, Michael E. Beach caddy. 4,703,944, 11-3-87, Cl. 280-30.000.
Higton, Frederick R.: *See*—
  Brunt, Keith D.; and Higton, Frederick R., 4,636,476, Cl. 436-23.000.
Higton, Malcolm H., to Phosphor Products Company Limited. High contrast electroluminescent display panels. 4,672,264, 6-9-87, Cl. 313-503.000.
Higuchi, Akio; and Someya, Hitoshi, to Oki Electric Industry Co., Ltd. Display unit with tilt mechanism. 4,666,219, 5-19-87, Cl. 312-7.200.
Higuchi, Chojiro: *See*—
  Mita, Ryuichi; Katoh, Toshio; Higuchi, Chojiro; and Yamaguchi, Akihiro, 4,675,439, Cl. 562-443.000.
Higuchi, Hideyo: *See*—
  Shiba, Tetsuo; Takahashi, Kazuhisa; Ikeda, Kenji; and Higuchi, Hideyo, 4,706,106, Cl. 357-78.000.
Higuchi, Hisashi: *See*—
  Kawamura, Takao; Ejima, Keibun; Miyamoto, Naooki; Higuchi, Hisashi; and Nishiguchi, Yasuo, 4,689,284, Cl. 430-84.000.
Higuchi, Hisayuki: *See*—
  Honma, Noriyuki; Nambu, Hiroaki; Yoshida, Isao; Higuchi, Hisayuki; and Yamaguchi, Kunihiko, 4,642,486, Cl. 307-463.000.
  Tamaki, Yoichi; Kure, Tokuo; Sato, Akira; and Higuchi, Hisayuki, 4,635,090, Cl. 357-50.000.
  Uehara, Keijiro; Higuchi, Hisayuki; and Hayasaka, Akio, 4,640,721, Cl. 148-188.000.
Higuchi, Itsuo, to Kabushiki Kaisha Toshiba. Bypass system for a dual refrigeration cycle air conditioner. 4,676,072, 6-30-87, Cl. 62-175.000.
Higuchi, Kazuhiko: *See*—
  Hirahara, Shuzo; Yamada, Kiyoshi; Higuchi, Kazuhiko; and Saito, Tutomu, 4,692,812, Cl. 358-285.000.
Higuchi, Kazuhiro, to Electroplating Engineers of Japan, Limited. High-purity palladium-nickel alloy plating solution and process. 4,699,697, 10-13-87, Cl. 204-44.600.
Higuchi, Kazuo; Okuhara, Hisakazu; and Sasaki, Kiichi, to Honda Giken Kogyo Kabushiki Kaisha. Seat belt device. 4,635,963, 1-13-87, Cl. 280-801.000.
Higuchi, Kazuo; Sugama, Takayuki; Okuhara, Hisakazu; and Sasaki, Kiichi, to Honda Giken Kogyo Kabushiki Kaisha. Seat belt forwarding device. 4,682,789, 7-28-87, Cl. 280-801.000.
Higuchi, Kazuo: *See*—
  Sasaki, Kiichi; Tabata, Hiroshi; Okuhara, Hisakazu; and Higuchi, Kazuo, 4,643,449, Cl. 280-808.000.
  Sasaki, Kiichi; Saruwatari, Hidetoshi; Higuchi, Kazuo; Okuhara, Hisakazu; and Tabata, Hiroshi, 4,650,215, Cl. 280-808.000.
  Sasaki, Kiichi; Tabata, Hiroshi; Okuhara, Hisakazu; and Higuchi, Kazuo, 4,697,827, Cl. 280-808.000.
Higuchi, Keizo, to Mitsubishi Denki Kabushiki Kaisha. Video display control unit. 4,679,027, 7-7-87, Cl. 340-723.000.
Higuchi, Keizo, to Mitsubishi Denki Kabushiki Kaisha. Video display control method and apparatus having video data storage. 4,707,690, 11-17-87, Cl. 340-750.000.
Higuchi, Kunio; Miyazono, Shunichi; and Toyogucyi, Tsutomu, to Sony Corporation. Disc loading and unloading apparatus for use in a disc player. 4,674,080, 6-16-87, Cl. 369-77.200.
Higuchi, Makiri: *See*—
  Kawakita, Kazuaki; and Higuchi, Makiri, 4,661,773, Cl. 324-208.000.
Higuchi, Mamoru: *See*—
  Abe, Hiroshi; Shichiri, Motoaki; Kawamori, Ryuzo; Ichoh, Tasuku; Iwatani, Kenji; Higuchi, Mamoru; Takagi, Kiyotaka; Okamoto, Norihiko; and Okudaira, Toshiyuki, 4,636,144, Cl. 417-63.000.
Higuchi, Masaaki; and Atsuumi, Masaru, to Fuji Jukogyo Kabushiki Kaisha. Apparatus for changing the frequency of a dynamo engine. 4,660,521, 4-28-87, Cl. 123-376.000.
Higuchi, Masahiro: *See*—
  Osawa, Toshiaki; Kobayashi, Yoshiro; Asada, Makoto; and Higuchi, Masahiro, 4,675,295, Cl. 435-172.200.
Higuchi, Matsuo; Miyake, Masaya; Takeuchi, Hisao; and Kamijo, Eiji, to Sumitomo Electric Industries, Ltd. Electrically-conductive sintered compact of silicon nitride machinable by electrical discharge machining and process of producing the same. 4,659,508, 4-21-87, Cl. 252-516.000.
Higuchi, Matsuo; Komura, Osamu; and Kamijo, Eiji, to Director General, Agency of Industrial Science and Technology. Process for the production of ceramics. 4,702,869, 10-27-87, Cl. 264-65.000.
Higuchi, Megumu: *See*—
  Nakata, Moritsune; Yanai, Tokiyoshi; Yamaguchi, Hirotsugu; Higuchi, Megumu; Aoyama, Yutaka; and Shibahata, Yasuji, 4,634,135, Cl. 280-90.000.
  Yanai, Tokiyoshi; Yamaguchi, Hirotsugu; Nakayama, Masafumi; Higuchi, Megumu; Aoyama, Yutaka; and Nakata, Moritsune, 4,669,360, Cl. 91-382.000.
Higuchi, Misao, to NEC Corporation. Non-volatile semiconductor memory device having an improved write circuit. 4,710,900, 12-1-87, Cl. 365-189.000.
Higuchi, Mitsuo; and Hagihara, Ryoji, to Fujitsu Limited. Semiconductor memory device. 4,656,609, 4-7-87, Cl. 365-200.000.
Higuchi, Mitsuo; and Tsuchida, Manabu, to Fujitsu Limited. Voltage supply level detecting circuit. 4,709,165, 11-24-87, Cl. 307-350.000.
Higuchi, Moeko: *See*—
  Koboshi, Shigeharu; and Higuchi, Moeko, 4,707,434, Cl. 430-393.000.
Higuchi, Naoki: *See*—
  Tanaka, Takaharu; Higuchi, Naoki; Saito, Masayuki; and Hashimoto, Masaki, 4,701,210, Cl. 71-98.000.
  Tanaka, Takaharu; Saitoh, Masayuki; Hashimoto, Masaki; and Higuchi, Naoki, 4,701,465, Cl. 514-423.000.
Higuchi, Norio: *See*—
  Tokuoka, Yasumichi; Arai, Hitoshi; Higuchi, Norio; and Hotsuki, Hideki, 4,670,337, Cl. 428-323.000.
Higuchi, Ryoichi; Sakurai, Takao; Mikami, Naoko; Akaiwa, Kiriko; and Takeuchi, Koji, to Ajinomoto Co., Inc. Biphenyl-based diester compounds and liquid crystal compositions containing same. 4,695,651, 9-22-87, Cl. 560-141.000.
Higuchi, Sadashi: *See*—
  Tsuchiya, Sohji; Fujikawa, Wataru; Kojima, Toshikuni; Higuchi, Sadashi; and Yamashita, Akio, 4,660,939, Cl. 350-357.000.
Higuchi, Seizun; Oga, Tomonari; Ikeda, Masao; and Nakano, Hirohumi, to Nippon Steel Corporation. Sn-based multilayer coated steel strip having improved corrosion resistance, weldability and lacquerability. 4,713,301, 12-15-87, Cl. 428-628.000.
Higuchi, Seizun: *See*—
  Yoshida, Makoto; Tano, Kazuhiro; Higuchi, Seizun; and Nakamura, Masato, 4,663,245, Cl. 428-632.000.
Higuchi, Shigemitsu: *See*—
  Tajima, Taiji; and Higuchi, Shigemitsu, 4,661,754, Cl. 318-696.000.
Higuchi, Shinsuke: *See*—
  Takeda, Yukio; Iijima, Shiro; Higuchi, Shinsuke; Ohura, Masaki; and Nagaike, Sadanori, 4,639,803, Cl. 360-103.000.
Higuchi, Shunichi: *See*—
  Okazaki, Susumu; Higuchi, Shunichi; Nakamura, Osamu; and Takahashi, Sachio, 4,687,996, Cl. 324-436.000.
Higuchi, Susumu, to C. Itoh & Co., Ltd. Human body protector. 4,648,136, 3-10-87, Cl. 2-2.500.
Higuchi, Takayoshi; Tanahashi, Mitsuhiko; and Mastukura, Motoo, to Jujo Paper Co., Ltd. Production of 2,6-bis (4-hydroxy-3,5-dimethoxyphenyl-3,7-dioxabicyclo (3.3.0) octane. 4,684,740, 8-4-87, Cl. 549-464.000.
Higuchi, Takeru; and Pogany, Stefano A., to Merck & Co., Inc. Cyclic ureas as dermal penetration enhancers. 4,677,131, 6-30-87, Cl. 514-392.000.
Higuchi, Takeru: *See*—
  Amidon, Gordon L.; Higuchi, Takeru; and Dressman, Jennifer B., 4,685,918, Cl. 604-892.000.

Higuchi, Tomitake: *See—*

Hiramatsu, Tohru; Matsuhisa, Yohji; and Higuchi, Tomitake, 4,637,925, Cl. 423-447.400.

Higuchi, Tomohisa: *See—*

Igi, Hisashi; Yamada, Tomohiro; Higuchi, Tomohisa; Ohta, Eiichi; and Yazawa, Hiroaki, 4,702,630, Cl. 400-82.000.

Higuchi, Tomoyuki: *See—*

Tanino, Masahiro; and Higuchi, Tomoyuki, 4,635,532, Cl. 91-436.000.

Higuchi, Toru: *See—*

Mizoguchi, Tetsuhiko; Inomata, Koichiro; Higuchi, Toru; and Sakai, Isao, 4,664,724, Cl. 148-302.000.

Higuchi, Toshiro; Mizuno, Takeshi; and Aikawa, Noboru, to Seiko Seiki Kabushiki Kaisha. Control arrangement for magnetic bearing apparatus. 4,642,500, 2-10-87, Cl. 310-90.500.

Higuchi, Toshiro; Kamei, Shigeki; and Kawaguchi, Kojiro, to Hitachi Kiden Kogyo Kabushiki Kaisha. Conveying system utilizing a linear pulse motor. 4,644,870, 2-24-87, Cl. 104-292.000.

Higuchi, Toshiro, to Nippon Seiko Kabushiki Kaisha. Magnetically floating actuator having angular positioning function. 4,683,391, 7-28-87, Cl. 310-90.500.

Higuchi, Toshiro, to Research Development Corporation of Japan. Apparatus for forming diverse shapes using a look-up table and an inverse transfer function. 4,694,401, 9-15-87, Cl. 364-475.000.

Higuchi, Yasumitsu: *See—*

Miyamoto, Akira; Nishimura, Toshiaki; Yamagishi, Yoshitaka; and Higuchi, Yasumitsu, 4,689,392, Cl. 525-247.000.

Higuchi, Yohji; Matsuoka, Hiroshi; and Ishihara, Mikiya, to Nippondenso Co., Ltd. One-directional drive apparatus. 4,646,888, 3-3-87, Cl. 192-8.00C.

Higuchi, Yoshihiro: *See—*

Kadokura, Hidekimi; Umezaki, Hiroshi; and Higuchi, Yoshihiro, 4,650,895, Cl. 556-182.000.

Higuchi, Yoshiro: *See—*

Ito, Yasuro; Higuchi, Yoshiro; Shiki, Takeshi; Tsuji, Yukikazu; Tsuji, Masanori; and Hayakawa, Mitsutaka, 4,686,852, Cl. 73-61.00R.

Ito, Yasuro; Higuchi, Yoshiro; Shiki, Takeshi; Tsuji, Yukikazu; Tsuji, Masanori; and Hayakawa, Mitsutaka, 4,715,719, Cl. 366-2.000.

Higuchi, Yukio; and Katsu[illegible]e, Masayoshi, to Murata Manufacturing Co., Ltd. Dielectric ceramic composition for high frequencies. 4,665,041, 5-12-87, Cl. 501-134.000.

Higuichi, Toshiro, to Nippon Seiko Kabushiki Kaisha, a part interest. Linear stepping motor. 4,689,529, 8-25-87, Cl. 318-135.000.

Higurashi, Mizuho: *See—*

Nomura, Hirokazu; Sato, Yukihiko; Morishige, Eiji; Nishi, Yasuhiko; Higurashi, Mizuho; and Mori, Saburo, 4,672,173, Cl. 219-125.100.

Nomura, Hirokazu; Sato, Yukihiko; Nishi, Yasuhiko; Higurashi, Mizuho; and Mori, Saburo, 4,686,341, Cl. 219-54.000.

Higurashi, Seiji, to Victor Company of Japan, Ltd. Method for recording and/or reproducing video and audio signals on a magnetic tape and a rotary cylinder arrangement therefor. 4,660,104, 4-21-87, Cl. 360-19.100.

Higure, Naoto: *See—*

Nagashima, Masayoshi; Takahashi, Tomohiko; Higure, Naoto; and Fukuda, Kanehiro, 4,642,659, Cl. 346-76.0PH.

Hihara, Toshio: *See—*

Niwa, Toshio; Himeno, Kiyoshi; and Hihara, Toshio, 4,707,546, Cl. 534-635.000.

Hihi, Bachir. Light-source multiplication device. 4,684,919, 8-4-87, Cl. 340-84.000.

Hihn, Gerhard: *See—*

Stoll, Kurt; and Hihn, Gerhard, 4,687,189, Cl. 269-22.000.

Stoll, Kurt; and Hihn, Gerhard, 4,699,402, Cl. 285-26.000.

Stoll, Kurt; and Hihn, Gerhard, 4,700,616, Cl. 92-118.000.

Hijazi, Yousef. Collapsible building construction system. 4,715,159, 12-29-87, Cl. 52-646.000.

Hijikata, Hiroshi: *See—*

Kamide, Noboru; Hijikata, Hiroshi; Tokudome, Katsumi; Ishikawa, Michio; and Hayashi, Yuji, 4,635,272, Cl. 372-87.000.

Hijikigawa, Masaya: *See—*

Furubayashi, Hisatoshi; Tabuchi, Hiroki; and Hijikigawa, Masaya, 4,649,365, Cl. 338-25.000.

Furubayashi, Hisatoshi; and Hijikigawa, Masaya, 4,651,121, Cl. 338-35.000.

Inami, Yasuhiko; Watanabe, Masanori; and Hijikigawa, Masaya, 4,638,346, Cl. 357-25.000.

Miyoshi, Shuji; and Hijikigawa, Masaya, 4,635,027, Cl. 338-34.000.

Miyoshi, Shuji; and Hijikigawa, Masaya, 4,682,502, Cl. 73-723.000.

Okuno, Tetsuhiro; and Hijikigawa, Masaya, 4,677,249, Cl. 136-258.000.

Sannomiya, Hitoshi; and Hijikigawa, Masaya, 4,698,658, Cl. 357-30.000.

Watanabe, Masanori; and Hijikigawa, Masaya, 4,698,657, Cl. 357-25.000.

Yamamoto, Yoshihiro; and Hijikigawa, Masaya, 4,672,148, Cl. 136-258.000.

Hijiya, Toyoto: *See—*

Hisamitsu, Kunio; Takemoto, Tadashi; Hijiya, Toyoto; and Takahashi, Satoji, 4,680,403, Cl. 5[illegible]6-247.000.

Hika, Yoshihiko: *See—*

Takei, Akira; Hika, Yoshihiko; and Miida, Takashi, 4,672,409, Cl. 357-33.500.

Hikawa, Kazuo, to Victor Company of Japan, Ltd. Clock generator for digital demodulators. 4,672,329, 6-9-87, Cl. 331-1.00A.

Hikawa, Tetsuo: *See—*

Taji, Satoru; Yoshida, Norio; and Hikawa, Tetsuo, 4,634,494, Cl. 156-628.000.

Hiketa, Manabu, to Mazda Motor Corporation. Automatic transmission apparatus. 4,697,471, 10-6-87, Cl. 74-359.000.

Hiketa, Manabu: *See—*

Watanabe, Kenichi; Hiruta, Hideshi; and Hiketa, Manabu, 4,709,775, Cl. 180-233.000.

Hikichi, Hiroshi, to Nippon Electric Co., Ltd. Display apparatus time division controlled in a dynamic driving system. 4,689,618, 8-25-87, Cl. 340-802.000.

Hikido, Mitsuru: *See—*

Goh, Atsushi; Nakamura, Mami; Endo, Keiji; and Hikido, Mitsuru, 4,654,074, Cl. 71-92.000.

Konno, Kazuhiko; Araki, Koichi; Ikeda, Kaoru; Endo, Keiji; and Hikido, Mitsuru, 4,659,365, Cl. 71-92.000.

Hikino, Keiji; Kaji, Shinichi; and Nakamura, Shin, to Hitachi, Ltd. Apparatus for controlling electric clothes dryer and method therefor. 4,649,654, 3-17-87, Cl. 34-30.000.

Hikino, Keiji: *See—*

Nakamura, Shin; Hikino, Keiji; Kaji, Shinichi; and Komatsu, Tsunetoshi, 4,638,573, Cl. 34-82.000.

Hikita, Michiyasu, to Kabushiki Kaisha Ishida Koki Seisakusho. Coin counter. 4,646,767, 3-3-87, Cl. 133-8.00R.

Hikita, Michiyasu, to Kabushiki Kaisha Ishida Koki Seisakusho. Electronic scale with label character size change capability. 4,693,3 9-15-87, Cl. 177-4.000.

Hikosaka, Michichika: *See—*

Tanaka, Tsuneo; Yoshitomi, Tetsuro; Hanada, Koji; Ohashi, M shato; and Hikosaka, Michichika, 4,708,903, Cl. 428-195.000.

Hilaire, Jean-Claude; and Guerin, Roland, to Atochem. Anhydrous process for the manufacture of polyamide powder from lactam in the presence of N,N'-alkylene bis amide. 4,694,063, 9-15-87, Cl. 528-315.000.

Hilbert, Bernard: *See—*

Ebert, Charles; Krehl, Hermann; Viertel, Lothar; Hilbert, Bernard; and Walter, Rudiger, 4,707,019, Cl. 296-97.00K.

Hilbert, Robert S.; and Korniski, Ronald J., to Capitol Records. Three dimensional reflex lens systems. 4,688,906, 8-25-87, Cl. 350-462.000.

Hilbert, Samuel D.: *See—*

Pruett, Wayne P.; Wang, Richard H. S.; Hilbert, Samuel D.; and Weaver, Max A., 4,661,566, Cl. 525-445.000.

Pruett, Wayne P.; Wang, Richard H. S.; Hilbert, Samuel D.; and Weaver, Max A., 4,707,537, Cl. 528-288.000.

Hilbert, Steven R.: *See—*

Brey, William A.; and Hilbert, Steven R., 4,665,546, Cl. 379-327.000.

Hilbert, Thomas K., to Eastman Kodak Company. Magnetic brush development apparatus. 4,671,207, 6-9-87, Cl. 118-657.000.

Hilbert, Thomas K., to Eastman Kodak Company. Electrographic development apparatus having coordinated gate mechanism and wiper. 4,699,495, 10-13-87, Cl. 355-3.0DD.

Hilbert, Timothy L.: *See—*

Dolan, Michael J.; Hilbert, Timothy L.; and Snyder, John D., 4,678,483, Cl. 55-97.000.

Hilboll, Gerd; Prop, Gerrit; Borbe, Harald; Lohr, Josef P.; and Doppelfeld, Ille-Stephanie, to A. Nattermann & Cie GmbH. Imidazolylalkylthienyl tetrahydropyridazines and processes for their use. 4,643,99 2-17-87, Cl. 514-252.000.

Hilboll, Gerd; Leyck, Sigurd; and Prop, Gerrit, to A. Nattermann & Cie GmbH. Substituted 6-(thien-2-yl)-3(2H)-pyridazinones. 4,667,03 5-19-87, Cl. 544-114.000.

Hilboll, Gerd; Doppelfeld, Ille-Stephanie; and Prop, Gerrit, to A. Nattermann & Cie GmbH. Imidazole group containing 2(1H)-pyridones and method for treating heart insufficiencies in humans. 4,699,914, 10-13-87, Cl. 514-341.000.

Hilboll, Gerd: *See—*

Biedermann, Jurgen; Borbe, Harald; Graf, Erich; Hilboll, Gerd; and Prop, Gerrit, 4,661,487, Cl. 514-252.000.

Hilbrans, Hermann; Gamroth, Michael; Melcher, Gerhard; and Megerle, Friedrich, to Klockner-Humboldt-Deutz Aktiengesellschaft. Method and apparatus for the reducing treatment of molten metals and/or slags thereof. 4,639,269, 1-27-87, Cl. 75-76.000.

Hilbrink, Johan O., to NCR Corporation. Field effect display system using drive circuits. 4,636,788, 1-13-87, Cl. 340-804.000.

Hilbrink, Johan O., to NCR Corporation. Field effect display system with diode selection of picture elements. 4,641,135, 2-3-87, Cl. 340-784.000.

Hilburger, Donald R.: *See—*

Todd, Lamar S.; Kaiser, Robert H.; and Hilburger, Donald R., 4,676,970, Cl. 423-561.00R.

Hild, Gerard: *See—*

Gnanou, Yves; and Hild, Gerard, 4,644,033, Cl. 524-590.000.

Hildebrand, David B.: *See—*

Johnson, Charles B.; Box, Jeffrey L.; and Hildebrand, David B., 4,685,104, Cl. 370-67.000.

Hildebrand, Reinhard; and Riedel, Friedrich, to Siemens Aktiengesellschaft. Assembly for transmitting rotary motion in automotive air control system. 4,656,877, 4-14-87, Cl. 74-68.000.

Hildebrand, Reinhard; and Waldmann, Bernd, to Siemens Aktiengesellschaft. Control-motion transmission assembly for air control system of automotive vehicle. 4,656,880, 4-14-87, Cl. 74-105.000.

Hildebrand, Reinhard; and Kusuma, Djuanarto-Adi, to Siemens Aktiengesellschaft. Air flow guide assembly in automotive ventilating system. 4,669,370, 6-2-87, Cl. 98-2.000.

Hildebrand, Reinhard; and Kusuma, Djuanarto-Adi, to Siemens Aktiengesellschaft. Air guide assembly in automotive ventilating system. 4,702,155, 10-27-87, Cl. 98-2.000.

Hildebrandt, Donald W.: *See*—
Grothaus, Roger H.; and Hildebrandt, Donald W., 4,689,915, Cl. 43-112.000.
Grothaus, Roger H.; and Hildebrandt, Donald W., 4,696,126, Cl. 43-112.000.

Hildebrandt, Edmund. Top and board therefor. 4,681,320, 7-21-87, Cl. 273-109.000.

Hildebrandt, Eugene F., to Emerson Electric Co. Plug assembly and interconnection system. 4,658,107, 4-14-87, Cl. 200-80.00R.

Hildebrandt, Eugene F., to Emerson Electric Co. Electric motor starting switch assembly. 4,658,196, 4-14-87, Cl. 318-793.000.

Hildebrandt, Eugene F.; and Ottersbach, Thomas V., to Emerson Electric Co. Insulator system for switch terminals. 4,697,860, 10-6-87, Cl. 439-374.000.

Hildebrandt, James R.: *See*—
Gregor, Harry P.; Dalven, Paul I.; Hildebrandt, James R.; Hodgins, Leonard T.; Laccetti, Anthony J.; and Shamir, Abraham, 4,705,753, Cl. 435-180.000.

Hildebrandt, Paul R.; and Pelletier, Marc G. Geometric modeling kit and method of making same. 4,701,131, 10-20-87, Cl. 434-211.000.

ildebrandt, Rainer: *See*—
Bunthoff, Dirk; and Hildebrandt, Rainer, 4,660,768, Cl. 239-423.000.

ildebrandt, William J. Writing implement for calligraphy and method of using same. 4,699,535, 10-13-87, Cl. 401-35.000.

ildenbrand, Randall C.: *See*—
Davis, Cecil J.; Spencer, John E.; Hockersmith, Dan T.; Hildenbrand, Randall C.; Brown, Frederick W.; and Kohan, Stanford P., 4,657,620, Cl. 156-345.000.
Davis, Cecil J.; Matthews, Robert; and Hildenbrand, Randall C., 4,687,542, Cl. 156-643.000.
Spencer, John E.; Johnson, Randall E.; Hockersmith, Dan T.; Hildenbrand, Randall C.; Jones, John I.; and Jaspersen, William S., 4,657,618, Cl. 156-345.000.

ildenbrandt, Lothar: *See*—
Gratz, Matthias; Hans-Dieter, Schmalz; Stadler, Gerald; and Hildenbrandt, Lothar, 4,705,290, Cl. 280-604.000.

ildner, Knut, to Friedrichsfeld GmbH Keramik-und Kunststoffwerke. Connecting arrangement with a threaded sleeve. 4,682,797, 7-28-87, Cl. 285-40.000.

ildt, Earl H. Theft-detection wafer attachment system including shield member. 4,695,845, 9-22-87, Cl. 343-873.000.

ileman, George: *See*—
McCoy, Daniel E.; Garver, Donald L.; and Hileman, George, 4,714,049, Cl. 122-4.00D.

ilfiker, Arthur L.: *See*—
Hilfiker, William K.; and Hilfiker, Arthur L., 4,643,618, Cl. 405-287.000.

lfiker, Peter, to Sprecher & Schuh AG. Motor protection switch. 4,686,599, 8-11-87, Cl. 361-32.000.

ilfiker Pipe Co.: *See*—
Hilfiker, William K.; and Hilfiker, Arthur L., 4,643,618, Cl. 405-287.000.
Hilfiker, William K., 4,661,023, Cl. 405-262.000.

ilfiker, William K.; and Hilfiker, Arthur L., to Hilfiker Pipe Co. Soil reinforced cantilever wall. 4,643,618, 2-17-87, Cl. 405-287.000.

ilfiker, William K., to Hilfiker Pipe Co. Riveted plate connector for retaining wall face panels. 4,661,023, 4-28-87, Cl. 405-262.000.

ilgard, Peter: *See*—
Engel, Jurgen; Kleemann, Axel; Niemeyer, Ulf; Hilgard, Peter; and Pohl, Joerg, 4,716,242, Cl. 558-81.000.

ilgendorff, Walter; Wenzlaff, Axel; Boddeker, Karl; Kahn, Gerhard; and Luhrs, Gunter, to GSK Forschungszentrum Geesthacht GmbH. Apparatus for the separation of solutions by pervaporation. 4,650,574, 3-17-87, Cl. 210-180.000.

ilgendorff, Walter; Kahn, Gerhard; and Kaschemekat, Jurgen, to GKSS Forschungszentrum Geesthacht GmbH. Diaphragm-equipped fluid treating apparatus. 4,695,380, 9-22-87, Cl. 210-347.000.

ilger, Gerald E., to Cormed, Inc. Multiple vascular access port. 4,692,146, 9-8-87, Cl. 604-93.000.

lger, Manfred; and Klein, Norbert, to Hoechst Aktiengesellschaft. Photopolymerizable recording roll material with end caps. 4,698,292, 10-6-87, Cl. 430-273.000.

lger, Wilfried; and Muller, Oscar, to August Froscher GmbH & Co. K.G., Firma. Arrangement for holding, accommodating, installing and connecting electrical apparatus for a conference table. 4,645,878, 2-24-87, Cl. 379-202.000.

lgren, Wallace L. Solvent cleansing apparatus. 4,692,251, 9-8-87, Cl. 210-651.000.

linsky, David. Blackjack board game. 4,643,431, 2-17-87, Cl. 273-243.000.

lker, Dieter: *See*—
Haas, Werner; Hilker, Dieter; and Slezak, Pavel J., 4,633,823, Cl. 123-41.610.

lker, Gregory J.; and Tieman, Edward A., to Dana Corporation. Differential axle speed sensing mechanism. 4,683,775, 8-4-87, Cl. 74-710.000.

ll-and-Griffith Company, The: *See*—
LaFay, Victor S.; and Neltner, Stephen L., 4,676,997, Cl. 427-134.000.

Hill, Arthur E.: *See*—
Colligon, John S.; Hill, Arthur E.; and Kheyrandish, Hamid, 4,652,357, Cl. 204-298.000.

Hill, Arthur T., to Warner-Lambert Technologies Inc. Microscope adjustment apparatus. 4,660,942, 4-28-87, Cl. 350-521.000.

Hill, Bernhard, to U.S. Philips Corporation. Magneto-optical printing head and method of grey-scale image generation using such a printing head. 4,714,325, 12-22-87, Cl. 350-376.000.

Hill, Brian S.: *See*—
Tonyes, Henry J.; Keehn, William T.; German, Harold W.; and Hill, Brian S., 4,713,250, Cl. 426-2.000.

Hill, Bryan H.: *See*—
Yount, Larry J.; Wilt, Nicholas J.; Hill, Bryan H.; and Peterson, Donald A., Jr., 4,683,532, Cl. 364-200.000.

Hill, Charles A., to Babcock & Wilcox Company, The. Thermally bonded fibrous product. 4,650,775, 3-17-87, Cl. 501-95.000.

Hill, Charles C., to Gunderson, Inc. Lightweight container car. 4,703,699, 11-3-87, Cl. 105-355.000.

Hill, Charles E.; Hill, Edwin L.; and Hill, Ernest W., to PJH, Inc. Underwater dredging apparatus and cutter head therefor. 4,680,879, 7-21-87, Cl. 37-67.000.

Hill, Christopher R.: *See*—
Weiss, Jacqueline B.; and Hill, Christopher R., 4,698,301, Cl. 435-41.000.

Hill, Danny B.: *See*—
Broughman, John D., Jr.; Calvert, Barry G.; and Hill, Danny B., 4,683,745, Cl. 73-49.200.

Hill, David A. Control unit for outboard marine motor assembly. 4,698,032, 10-6-87, Cl. 440-6.000.

Hill, David T.; and Johnson, Randall K., to Smith Kline Beckman Corporation. [α,ω-bis(diphenylphosphino)hydrocarbon]bis[(thiosugar)gold] and bis[(selenosugar)gold] derivatives, pharmaceutical compositions and method of use. 4,645,756, 2-24-87, Cl. 514-24.000.

Hill, David T.; and Johnson, Randall K., to Smith Kline Beckman Corporation. Tetraphosphine-coordinated gold(I) complexes. 4,675,427, 6-23-87, Cl. 514-495.000.

Hill, David T.; and Johnson, Randall K., to SmithKline Beckman Corporation. Triphos and tetraphos gold compounds and ligands. 4,698,422, 10-6-87, Cl. 536-17.100.

Hill, David T., to Smithkline Beckman Corporation. Certain bis(di-2 or 4-pyridyl-phosphino) alkanes #10 having anti-tumor properties. 4,716,230, 12-29-87, Cl. 546-21.000.

Hill, Deborah J.: *See*—
Emerson, William D.; Hill, Deborah J.; Loeb, Karen C.; Mizrahi, Albert; Schlegel, Charles T.; and Scott, Lowell C., 4,646,346, Cl. 379-214.000.

Hill, Delmar J., to Vanguard-Hill, Inc. Tape fastening system. 4,691,427, 9-8-87, Cl. 29-426.500.

Hill, Dereck, to Arc Technologies Systems Ltd. Assembly for the automatic cooling water connection to water-cooled combination electrodes for electric arc furnaces. 4,672,628, 6-9-87, Cl. 373-93.000.

Hill, Donnie K.: *See*—
Sharma, Shanmuk; Hill, Donnie K.; and Durr, Charles A., 4,702,819, Cl. 208-354.000.
Sharma, Shanmuk; Hill, Donnie K.; and Durr, Charles A., 4,710,214, Cl. 62-28.000.
Sharma, Shanmuk; Hill, Donnie K.; and Durr, Charles A., 4,711,651, Cl. 62-34.000.

Hill, Edward C., Jr.: *See*—
Auxier, Thomas A.; Anderson, Leon R.; and Hill, Edward C., Jr., 4,664,597, Cl. 416-97.00R.

Hill, Edwin L.: *See*—
Hill, Charles E.; Hill, Edwin L.; and Hill, Ernest W., 4,680,879, Cl. 37-67.000.

Hill, Ernest W.: *See*—
Hill, Charles E.; Hill, Edwin L.; and Hill, Ernest W., 4,680,879, Cl. 37-67.000.

Hill, Francis K. Remote control multi-position rear view mirror. 4,639,103, 1-27-87, Cl. 350-636.000.

Hill, Gary R., to Ex-Cell-O Corporation. Machine for splining clutch hubs. 4,658,619, 4-21-87, Cl. 72-88.000.

Hill, Gary R. Method and machine for splining clutch hubs with close tolerance spline bellmouth and oil seal surface roundness. 4,705,150, 11-10-87, Cl. 192-70.200.

Hill, George R. Unidirectional panel. 4,673,609, 6-16-87, Cl. 428-187.000.

Hill, Gilman A.; Passamaneck, Richard S.; and Touryan, Kenell J., to Mt. Moriah Trust. Well treating method for stimulating recovery of fluids. 4,633,951, 1-6-87, Cl. 166-308.000.

Hill, Gilman A.; Passamaneck, Richard S.; and Touryan, Kenell J., to Mt. Moriah Trust. Well treating system for stimulating recovery of fluids. 4,683,943, 8-4-87, Cl. 166-63.000.

Hill, Glen W.: *See*—
Swon, James E.; and Hill, Glen W., 4,658,631, Cl. 73-7.000.

Hill, H. Wayne, Jr.; and Cliffton, Michael D., to Phillips Petroleum Company. Polyester resins. 4,698,411, 10-6-87, Cl. 528-303.000.

Hill, Hugh A. O.; Page, David J.; Walton, Nicholas J.; and Whitford, David, to National Research Development Corporation. Surface modified electrode and its use in a bioelectrochemical process. 4,655,885, 4-7-87, Cl. 204-72.000.

Hill, Hugh A. O.: *See*—
Higgins, Irving J.; Hill, Hugh A. O.; and Plotkin, Elliot V., 4,711,245, Cl. 128-635.000.

Hill, James D.; and Wooden, Gene R., to Fusion Systems Corporation. Structure for minimizing microwave leakage. 4,695,694, 9-22-87, Cl. 219-10.55D.

Hill, James D., Jr.: *See—*
Oliver, Larry R.; Hill, James D., Jr.; Lewis, Charles M.; Hollaway, Gerald C., Jr.; and Nelson, Jack, 4,690,665, Cl. 474-245.000.
Hill, Joe W. Electrical outlet faceplate with locking closures. 4,640,564, 2-3-87, Cl. 339-40.000.
Hill, Joel B., Jr.; Stevens, William E.; and Davies, Reg, to Du Pont de Nemours, E. I., and Company. Flue for the production of soft TiO_2 agglomerates. 4,661,322, 4-28-87, Cl. 422-158.000.
Hill, John. Vowel sound teaching device. 4,643,680, 2-17-87, Cl. 434-170.000.
Hill, John; Bannister, Royston W.; and Turczanski, Henry, to Standex Electronics (U.K.) Limited. Bobbins for electrical coils and method of manufacturing electrical coils therefrom. 4,701,735, 10-20-87, Cl. 335-282.000.
Hill, John A.; and Flynn, Gregory J., to Diamond Shamrock Chemicals Company. Lubricant dispersions for paper coating compositions. 4,659,489, 4-21-87, Cl. 252-40.500.
Hill, John A.; and Flynn, Gregory J., to Diamond Shamrock Chemicals Company. Anionic Lubricant dispersions useful in paper coatings. 4,676,836, 6-30-87, Cl. 106-243.000.
Hill, John E., Jr.: *See—*
McAllister, Lawrence E.; and Hill, John E., Jr., 4,656,095, Cl. 428-413.000.
Hill, John R. Vehicular lamp circuit tester. 4,700,126, 10-13-87, Cl. 324-510.000.
Hill, Kevin E., to Milsco Manufacturing Company. Self-releasing ratchet-type seat adjustment. 4,709,961, 12-1-87, Cl. 297-284.000.
Hill, Lance E.: *See—*
Sheppard, Douglas B.; Solbes, Albert; Stansel, John C.; and Hill, Lance E., 4,685,404, Cl. 110-265.000.
Hill, Leslie C.: *See—*
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- linger, Erich, to Turk & Hillinger GmbH. Electric heating arrangement for spray nozzles. 4,644,140, 2-17-87, Cl. 219-535.000.
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  - Sterr, Robert; Hillion, Gerard; Gateau, Paul; and Guibet, Jean-Claude, 4,695,411, Cl. 260-410.90R.
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- llman, Billy R. Tow bar for tailwheel aircraft. 4,659,124, 4-21-87, Cl. 294-19.100.
- llman, Gary: *See—*
  - Rubin, Richard H.; Hillman, Gary; Zarr, Lewis E.; and Hayes, William K., 4,685,852, Cl. 424-404.000.
- llman, Paul D. Flexible tubular toy. 4,666,417, 5-19-87, Cl. 446-267.000.
- llman, Robert S.: *See—*
  - Allen, Jimmy D.; Cobb, Michael E.; Hillman, Robert S.; Mungall, Dennis R.; Ostoich, Vladimir E.; and Stroy, Gary H., 4,712,460, Cl. 83-208.000.
- llman, Theodore E., to USG Acoustical Products Company. Soft textured reveal edge ceiling board and process for its manufacture. 4,711,685, 12-8-87, Cl. 156-220.000.
- llman, Tom V. Holder for bicycle chains. 4,681,557, 7-21-87, Cl. 474-119.000.
- llmann, Willi; Paus, Hermann; and Drews, Eberhard, to Metallgesellschaft Aktiengesellschaft; Maschinenfabrik Hermann Paus GmbH; and Paul Vahle GmbH & Co. KG. Trackless, center articulation underground vehicle driven by an electric motor. 4,700,023, 10-13-87, Cl. 191-12.20A.
- llock, William E. Core plug driver tool. 4,637,115, 1-20-87, Cl. 29-275.000.
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  - Meade, Ronald G., 4,649,764, Cl. 74-89.150.
- lls, Ivan E.; and Holmelund, George, to Hacker Instruments, Inc. Blade-holder magazine. 4,685,564, 8-11-87, Cl. 206-354.000.
- lls, James B., to Package Machinery Company. Container filling machine. 4,674,259, 6-23-87, Cl. 53-202.000.
- lls, Karen F.; and Jones, Howell A., to Pitney Bowes Inc. Method and apparatus for locating and displaying historical information within an electronic postage meter. 4,713,769, 12-15-87, Cl. 364-464.000.
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- lls, Robert A., to Altech Industries, Inc. Plywood sheeting spacer clip. 4,703,603, 11-3-87, Cl. 52-584.000.
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- llstrom, David U.; and Cope, Dennis R., to Marketing Displays, Inc.; and B. F. Goodrich Company. Sign stand assembly. 4,714,220, 12-22-87, Cl. 248-160.000.
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- Hilson, Carol A.: *See—*
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- Hilt, Albrecht: *See—*
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- Hilt, Edmond: *See—*
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- Hiltbrunner, Werner: *See—*
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- Hiltebrandt, Siegfried, to Richard Wolf GmbH. Optical system for an endoscope. 4,682,585, 7-28-87, Cl. 128-4.000.
- Hiltebrandt, Siegfried: *See—*
  - Bonnet, Ludwig; and Hiltebrandt, Siegfried, 4,686,965, Cl. 128-4.000.
- Hilterhaus, Karl-Heinz; and Norkus, Hans, to KVT Kunststoffverfahrenstechnik GmbH & Co.; and Willich GmbH & Co. Process for consolidation and sealing coal and/or rock, soil and brick formations in mining, tunnelling and construction. 4,669,919, 6-2-87, Cl. 405-264.000.
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  - Blaas, Karl; and Nipp, Hansjorg, 4,711,308, Cl. 173-162.00R.
  - Buechel, Franz, 4,708,061, Cl. 102-331.000.
  - Deutschenbaur, Paul; Rupprecht, Hans; Burtscher, Norbert; and Nigg, Berno, 4,701,083, Cl. 408-240.000.
  - Erdt, Wolfgang; Reitberger, Rudolf; and Stocker, Erwin, 4,684,303, Cl. 409-235.000.
  - Froehlich, Peter, 4,673,320, Cl. 411-21.000.
  - Herb, Armin, 4,636,123, Cl. 411-55.000.
  - Herb, Armin, 4,642,008, Cl. 411-16.000.
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  - Hoffmann, Armin, 4,645,098, Cl. 222-386.000.
  - Hunger, Josef; and Rumpp, Gerhard, 4,655,651, Cl. 408-226.000.
  - Jochum, Peter, 4,711,385, Cl. 227-10.000.
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  - Lang, Gusztav; and Mauthe, Peter, 4,651,875, Cl. 206-219.000.
  - Leibhard, Erich; and Herb, Armin, 4,656,806, Cl. 52-704.000.
  - Lippacher, Wolfgang; and Theissig, Werner, 4,669,551, Cl. 173-109.000.
  - Manschitz, Erwin; Gartner, Karl-Heinz; Hunger, Josef; Spieth, Manfred; Moser, Hans-Karl; and Mundle, Jurgen, 4,655,464, Cl. 279-64.000.
  - Matt, Lukas; Mark, Fritz; and Gschwend, Hans, 4,640,452, Cl. 227-131.000.
  - Mauthe, Peter, 4,652,175, Cl. 405-260.000.
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  - Millauer, Wolfgang; and Raab, Dieter, 4,681,489, Cl. 408-1.00R.
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  - Ratzky, Reiner, 4,653,675, Cl. 222-390.000.
  - Regelsberger, Wolfgang; Rumpp, Gerhard; and Spieth, Manfred, 4,652,187, Cl. 408-240.000.
  - Richter, Hanno; Mirsberger, Helmut; Uhlig, Raimer; Haage, Manfred; and Uebel, Philipp, 4,708,551, Cl. 411-32.000.
  - Schiefer, Erwin, 4,673,322, Cl. 411-40.000.
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  - von Flue, Peter, 4,676,410, Cl. 222-327.000.
  - Wezel, Erich, 4,711,457, Cl. 279-65.000.
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- Hiltmann nee Ponty, Aranka: *See—*
  - Welzel, Peter; Kunisch, Franz; Stein, Hermann; Hiltmann nee Ponty, Aranka; and Kruggel, Frithjof, 4,684,626, Cl. 514-25.000.
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  - Schmidt, Paul J.; and Hung, William M., 4,636,820, Cl. 346-224.000.
- Hilton-Davis Chemical Co., The: *See—*
  - Cook, Wayne L.; and Huth, Robert P., 4,675,389, Cl. 534-883.000.
  - Gunn, Michael B.; and Hung, William M., 4,652,643, Cl. 544-37.000.
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  - Hung, William M.; and Black, Angelique M., 4,660,060, Cl. 346-220.000.
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- Hilton Davis Co.: *See—*
  - Cook, Wayne L.; and Huth, Robert P., 4,707,373, Cl. 426-540.000.
- Hilton, Glenn B.; and Robertson, Wayne W., to Monsanto Company. Flame retarded thermoplastic styrenic compositions. 4,716,196, 12-29-87, Cl. 525-72.000.
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  - Harness, John, 4,648,192, Cl. 42-77.000.
- Hilton, Richard D.; and Coate, Godfrey T., to United States of America, Navy. Radar guidance system. 4,698,635, 10-6-87, Cl. 342-64.000.
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  - Saxby, Michael E., 4,697,523, Cl. 102-440.000.
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- Himelstein, Carol S.: *See—*
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- Himeno, Takuji: *See—*
  - Tanaka, Masato; and Himeno, Takuji, 4,672,363, Cl. 340-347.0DD.
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  - Garrick, John R.; and Himmelberger, Karl B., 4,646,955, Cl. 225-3.000.
- Himmele, Walter; Wiersdorff, Walter-Wielant; and Thyes, Marco, to BASF Aktiengesellschaft. Preparation of substituted piperidines. 4,656,282, 4-7-87, Cl. 546-150.000.
- Himmele, Walter: *See—*
  - Buschmann, Ernst; Himmele, Walter; Eckhardt, Heinz; Ernst, Hansgeorg; Rademacher, Wilhelm; and Jung, Johann, 4,705,553, Cl. 71-76.000.
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- Himmelmann, Wolfgang: *See—*
  - Helling, Gunter; and Himmelmann, Wolfgang, 4,714,671, Cl. 430-545.000.
  - Langen, Hans; Schutz, Heinz-Dieter; Wernicke, Ubbo; Himmelmann, Wolfgang; and Renner, Gunter, 4,710,454, Cl. 430-546.000.
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  - Leichtfried, Friedrich; Wuerthner, Hubert; and Himmetsberger, Alois, 4,684,146, Cl. 280-626.000.
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  - Schulz, Wolfgang; Himmler, Gunther; Knoll, Gunter; and Wen Friedrich, 4,676,648, Cl. 356-385.000.
- Himono, Yusaku; Moriya, Yoshiaki; Miyahara, Masato; and Suzu Kazuhiro, to Furukawa Electric Co., Ltd., The. Plastic optical fib cable with ferrule. 4,695,124, 9-22-87, Cl. 350-96.200.
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  - Bertelli, Guido; and Locatelli, Renato, 4,710,528, Cl. 524-100.00
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  - Yoshioka, Sadashichi; Matsuoka, Tsutomu; Hamada, Shigeki an Hinatase, Humio, 4,702,218, Cl. 623-559.000.
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- Hinchey, Richard J.: *See—*
  - Pellet, Regis J.; and Hinchey, Richard J., 4,711,864, Cl. 502-65.00
- Hinchliffe, Warren D.: *See—*
  - Griffin, Arnold F.; and Hinchliffe, Warren D., 4,681,628, Cl. 5 118.00R.
- Hinchman, Steven B.: *See—*
  - Sengul, M. Marc; and Hinchman, Steven B., 4,694,904, C 166-252.000.
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- Hinderstein, Philip M.: *See—*
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- Hindes, Clyde J., to Mechanical Technology Incorporated. Two-ta working gas storage system for heat engine. 4,655,036, 4-7-87, C 60-521.000.
- Hindley, Richard M.; and Berge, John, to Beecham Group p.l.c. 2 phenylethylamine derivatives. 4,692,465, 9-8-87, Cl. 514-539.000.
- Hindman, Thomas D.; Roessing, Thomas J.; and Burkhard, Joseph D to Witco Corporation. Cable flooding compound. 4,716,1 12-29-87, Cl. 524-488.000.
- Hinds, George P., Jr.: *See—*
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- Hinds, Walter E., to Northern Magnetics, Inc. Torque motor wit unlimited angular excursion. 4,642,539, 2-10-87, Cl. 318-439.000.
- Hinds, Walter E. Single plane orthogonally movable drive syste 4,654,571, 3-31-87, Cl. 318-687.000.
- Hine, Brent S.: *See—*
  - Bothun, Eugene L.; and Hine, Brent S., 4,687,122, Cl. 222-183.00
- Hine, Derek L.: *See—*
  - Saunders, Richard J.; Hine, Derek L.; and Barker, Gerald C 4,672,168, Cl. 219-121.0LK.
- Hine, Shiro; and Ishikura, Hidenobu, to Mitsubishi Denki Kabushik Kaisha. Solid-state image sensor manufacturing process. 4,667,39 5-26-87, Cl. 29-572.000.
- Hine, Shiro, to Mitsubishi Denki Kabushiki Kaisha. Integrated optica head device with improved isolation between the semiconducto laser and the photodetectors. 4,716,559, 12-29-87, Cl. 369-112.000.
- Hineno, Kazuhiro; and Kura, Atsushi, to Sanyo Electric Co. Ltd.; and Tokyo Sanyo Elec. Automatic component mounting apparatus 4,653,664, 3-31-87, Cl. 221-3.000.
- Hines, Emmett: *See—*
  - Conley, Challie, 4,708,576, Cl. 414-607.000.
- Hines, Frank: *See—*
  - Heys, George, Jr.; Aleshire, Rex A.; Hines, Frank; and Belknap William M., 4,682,325, Cl. 370-85.000.
  - Houser, James S.; and Hines, Frank, 4,669,044, Cl. 364-200.000.

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  Hines, Gordon E., 4,700,439, Cl. 29-33.00T.
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nes, John: *See*—
  Atcher, Robert W.; Friedman, Arnold M.; and Hines, John, 4,663,129, Cl. 423-2.000.

nes, Robin H.; Glasscock, Michael R.; and Johnson, D. Bruce, to Quantime, Inc. Musical entertainment board game. 4,690,025, 9-1-87, Cl. 84-1.180.

nes, Stephen P., to HinesLab. Camera mounting apparatus. 4,650,305, 3-17-87, Cl. 354-113.000.

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nes, Thomas E. Picture frame molding holding and cutting apparatus and method of using. 4,646,801, 3-3-87, Cl. 144-375.000.

nesLab: *See*—
  Hines, Stephen P., 4,650,305, Cl. 354-113.000.

ng, Peter, to Thorn EMI plc. Discharge lamp arc tubes. 4,694,219, 9-15-87, Cl. 313-636.000.

nger, Klaus-Jurgen, to Werner & Pfleiderer. Method the hydrolytic splitting of acid treated comminuted crude cellulose with steam. 4,708,746, 11-24-87, Cl. 127-37.000.

ngorani, Rajesh: *See*—
  Fedele, Nicola J.; Acampora, Alfonse; Burt, Peter J.; and Hingorani, Rajesh, 4,663,660, Cl. 358-136.000.

ngorany, Premkumar, to Texas Instruments Incorporated. Surface mounted system for leaded semiconductor devices. 4,673,967, 6-16-87, Cl. 357-70.000.

nker Company: *See*—
  Hiniker, Thomas K.; and Bush, Vincent N., 4,637,547, Cl. 239-1.000.
  Johnson, James A.; Schulz, Richard; and Tomlonovic, Vincent J., 4,693,331, Cl. 180-135.000.

nker, Thomas K.; and Bush, Vincent N., to Hiniker Company. Control method and apparatus for liquid distributor. 4,637,547, 1-20-87, Cl. 239-1.000.

nkel, Holger: *See*—
  Bandara, Upali; and Hinkel, Holger, 4,692,832, Cl. 360-137.000.
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  Briska, Marian; Elsner, Gerhard; and Hinkel, Holger, 4,689,260, Cl. 428-161.000.

nkle, Stanley J.: *See*—
  Desai, Jatinbahu B.; Hinkle, Stanley J.; and Pearce, John F., 4,653,439, Cl. 123-52.0MV.

nkleman, Michael J., to Boeing Company, The. Airfoil having improved lift capability. 4,655,412, 4-7-87, Cl. 244-35.00R.

nman, Brian L., to PicTel Corporation. Method and apparatus for providing motion estimation signals for communicating image sequences. 4,661,849, 4-28-87, Cl. 358-136.000.

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nman, Daryl E.: *See*—
  Anderson, Vernon A.; Hinman, Daryl E.; and Bumgardner, Jon H., 4,661,987, Cl. 382-41.000.

nman, Edmund R., to Ex-Cell-O Corporation. ECM machine with workpart shroud and arbor assembly. 4,657,645, 4-14-87, Cl. 204-129.100.

nman, Edmund R., to Ex-Cell-O Corporation. ECM machine with skewed workpart and pocketed cathodes. 4,657,649, 4-14-87, Cl. 204-224.00M.

nman, Edmund R., to Ex-Cell-O Corporation. Multi-axis ECM machine useful for machining airfoils of rotors. 4,663,011, 5-5-87, Cl. 204-224.00M.

nman, Edmund R., to Ex-Cell-O Corporation. Electrical continuity clamp for ECM machine. 4,684,455, 8-4-87, Cl. 204-212.000.

nman, Edmund R., to Ex-Cell-O Corporation. Method of electrochemical machining bladed rotors. 4,686,020, 8-11-87, Cl. 204-129.100.

n, Werner, to RCA Corporation. Kinescope driver in a digital video signal processing system. 4,641,194, 2-3-87, Cl. 358-242.000.

n, Werner, to RCA Corporation. Digital video signal processor with analog level control. 4,642,690, 2-10-87, Cl. 358-169.000.

n, Werner, to RCA Corporation. Sample and hold circuit for a control system in a video signal processor. 4,677,491, 6-30-87, Cl. 358-242.000.

n, Werner, to RCA Corporation. Video output signal clamping circuit. 4,682,233, 7-21-87, Cl. 358-173.000.

n, Werner, to RCA Corporation. Brightness and automatic kinescope bias control in a video signal processor with an AC coupled kinescope driver. 4,689,679, 8-25-87, Cl. 358-168.000.

n, Werner, to RCA Corporation. Automatic bias control of an image display device in a video monitor. 4,694,350, 9-15-87, Cl. 358-242.000.

n, Werner, to RCA Corporation. Video signal blanking interval signal conditioning circuit. 4,716,461, 12-29-87, Cl. 358-165.000.

nefeld, Jon D.: *See*—
  Langer, Joseph; Brown, Raymond A.; and Hinnefeld, Jon D., 4,671,585, Cl. 439-117.000.

Hinnenkamp, James A.; and Walatka, Vernon V., to National Distillers and Chemical Corporation. Synthetic crystalline metallosilicate compositions, the preparation thereof and their use in the conversion of synthesis gas to low molecular weight hydrocarbons. 4,670,474, 6-2-87, Cl. 518-713.000.

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Hinney, Harry R.; and Baghdadchi, Jamil, to Atlantic Richfield Company. Amine terminated polybutadiene compositions and preparation thereof. 4,658,062, 4-14-87, Cl. 564-305.000.

Hino, Hiromasa, to Fuji Photo Film Co., Ltd. Magnetic recording and reproducing system with a cleaning mechanism. 4,704,647, 11-3-87, Cl. 360-128.000.

Hino, Isao: *See*—
  Ojima, Juji; and Hino, Isao, 4,702,726, Cl. 474-101.000.

Hino, Katsuhiko: *See*—
  Kadokawa, Toshiaki; Kawashima, Katsuyoshi; Uno, Hitoshi; and Hino, Katsuhiko, 4,677,107, Cl. 514-254.000.

Hino, Kenichi; Yamauchi, Junichi; and Nishida, Koji, to Kuraray Co., Ltd. Photopolymerizable composition. 4,668,712, 5-26-87, Cl. 522-13.000.

Hino, Kuniaki: *See*—
  Endo, Hiroshi; Katoh, Masao; and Hino, Kuniaki, 4,681,764, Cl. 424-125.000.

Hino, Masaaki, to Kabushiki Kaisha Toshiba. Magnetic resonance imaging signal generating system. 4,654,597, 3-31-87, Cl. 324-322.000.

Hino, Masafumi: *See*—
  Gemma, Hideaki; and Hino, Masafumi, 4,638,428, Cl. 364-200.000.

Hino, Toshiyuki; and Gorski, Anthony J., to United States of America, Energy. Method of forming clathrate ice. 4,686,833, 8-18-87, Cl. 62-68.000.

Hino, Youzi; and Ogawa, Hironobu, to Fujitsu Limited. Resistance ladder network. 4,703,302, 10-27-87, Cl. 338-293.000.

Hino, Youzi, to Fujitsu Limited. Bias voltage compensated integrated circuit digital-to-analog converter. 4,713,649, 12-15-87, Cl. 340-347.0DA.

Hinoda, Seisuke: *See*—
  Hirano, Masao; Kato, Mitsutaka; Yasuda, Hirohiko; and Hinoda, Seisuke, 4,710,033, Cl. 374-161.000.
  Mikami, Kazuo; Nishimura, Masahiro; Tsukiyama, Noriyuki; and Hinoda, Seisuke, 4,653,014, Cl. 364-526.000.

Hinohara, Yoshikazu; Kaifu, Rokuro; and Matsunaga, Isao, to Chugai Seiyaku Kabushiki Kaisha. Method of preventing and treating obesity. 4,696,919, 9-29-87, Cl. 514-62.000.

Hinohara, Yoshikazu: *See*—
  Ochi, Kiyoshige; Hinohara, Yoshikazu; and Matsunaga, Isao, 4,650,888, Cl. 556-177.000.

Hinooka, Nobuya: *See*—
  Yatsu, Tadao; Nakano, Takayuki; Hinooka, Nobuya; and Kato, Tatsuo, 4,692,506, Cl. 528-296.000.

Hinotani, Katsuhiro; Hayama, Hajime; Kishimoto, Shunichi; Miwa, Takashi; Funazo, Yasuo; and Kouno, Kazuhiro, to Sanyo Electric Co., Ltd. Flat color cathode-ray tube. 4,654,559, 3-31-87, Cl. 313-422.000.

Hinoto, Yuji: *See*—
  Itoh, Kunio; Kozakai, Shohei; Hida, Yoshinori; Okinoshima, Hiroshige; Okada, Fumio; Oba, Toshio; Shimizu, Hisashi; Hinoto, Yuji; and Yoshioka, Hiroshi, 4,678,688, Cl. 427-387.000.

Hinotozawa, Kiyoizumi: *See*—
  Omura, Satoshi; Iwai, Yuzuru; Hinotozawa, Kiyoizumi; and Hirano, Atsushi, 4,666,715, Cl. 424-122.000.

Hinoue, Kenji: *See*—
  Obe, Mitsuhiko; Kawai, Isamu; Nakata, Masaru; Oisi, Katumi; Shimizu, Yosaburo; Fukawatase, Katsushi; Nishikawa, Takao; Hinoue, Kenji; Arisawa, Susumu; Sato, Kenichi; Kurata, Yasunori; and Sato, Kengo, 4,650,242, Cl. 296-190.000.

Hinrichs, Randall D.: *See*—
  Goss, Gary J.; Moles, Robert G. H.; Hinrichs, Randall D.; and Holtey, Thomas O., 4,651,329, Cl. 375-94.000.

Hinrichs, Walter: *See*—
  Bittner, Friedrich; Hinrichs, Walter; Hovestadt, Herbert; Lange, Ludwig; and Splett, Erich, 4,640,832, Cl. 423-562.000.

Hinshaw, Jerald C.; Toner, John L.; and Reynolds, George A., to Eastman Kodak Company. Fluorescent labels for immunoassay. 4,637,988, 1-20-87, Cl. 436-546.000.

Hinshaw, Jerald C.; Toner, John L.; and Reynolds, George A., to Eastman Kodak Company. Phenolic fluorescent labels. 4,670,572, 6-2-87, Cl. 556-1.000.

Hinshaw, Waldo S.: *See*—
  Compton, Russell A.; Hinshaw, Waldo S.; and Kramer, David M., 4,636,728, Cl. 324-309.000.

Hinsley, Stephen J.: *See*—
  Quiney, Kenneth M., and Hinsley, Stephen J., 4,674,282, Cl. 60-581.000.

Hinson, Harold T.: *See*—
  Spiers, Steven F.; Hinson, Harold T.; Smick, William H., III; Shelton, Gregory A.; and Grollimund, Everett C., 4,666,550, Cl. 156-361.000.

Hinson, James W.; and Roe, Diane H., to Ciba-Geigy Corporation. Method for improving strength of dry dye particles and reducing explosion hazards. 4,663,859, 5-12-87, Cl. 34-10.000.

Hinson, Neil R.; and Greenhalgh, Stephen P., to Quantel Limited. Video signal processing with filtering to account for picture compression. 4,665,433, 5-12-87, Cl. 358-22.000.

Hinson, Neil R.: *See*—
  Taylor, Richard J.; Kellar, Paul R. N.; and Hinson, Neil R., 4,709,393, Cl. 382-41.000.

Hinson, Terry F.: *See*—
  Bennett, Charles J.; and Hinson, Terry F., 4,650,535, Cl. 156-352.000.

Hinson, Virgil H.: *See*—
  Jarman, Davis R.; and Hinson, Virgil H., 4,690,378, Cl. 254-8.00B.
  Jarman, Davis R.; and Hinson, Virgil H., 4,712,417, Cl. 72-447.000.

Hinterholzer, Hans. Slalom post. 4,702,639, 10-27-87, Cl. 404-10.000.

Hintermann, Hans E.: *See*—
  Sarin, Vinod K.; and Hintermann, Hans E., 4,701,384, Cl. 428-688.000.
  Sarin, Vinod K.; and Hintermann, Hans E., 4,702,970, Cl. 428-688.000.

Hintermann, Hans-Erich, to Association Suisse pour la Recherches Horlogere. Joint implant. 4,687,487, 8-18-87, Cl. 623-18.000.

Hintermeier, Karl: *See*—
  Bathelt, Heinrich; Ehrl, Winfried; Wehowsky, Frank; Kleber, Rolf; Lotz, Werner; Glenz, Wolfgang; Herdt, Hubert; Jackel, Lothar; Mast, Jan-Hilbert; Hintermeier, Karl; and Muller, Manfred, 4,709,074, Cl. 560-33.000.

Hinton, Dennis L.: *See*—
  Berecz, Imre; and Hinton, Dennis L., 4,687,395, Cl. 411-361.000.

Hinton, Earle L.: *See*—
  Vezirian, Edward; and Hinton, Earle L. 4,684,015, Cl. 206-19.000.
  Vezirian, Edward; and Hinton, Earle L., 4,703,849, Cl. 206-217.000.

Hinton, George F., to United States of America, Navy. Superconducting conductivity anomaly detection system. 4,639,675, 1-27-87, Cl. 324-334.000.

Hinton, Harvard S.; and Ostrander, John L., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Method and apparatus for making a device for optically interconnecting optical devices. 4,703,993, 11-3-87, Cl. 350-3.720.

Hinton, Harvard S.; and Ostrander, John L., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Optical interconnection arrangement. 4,705,344, 11-10-87, Cl. 350-3.730.

Hinton, James L.: *See*—
  LaManna, Richard J.; Hinton, James L.; and Cucksey, Edward L., 4,686,898, Cl. 101-18.000.

Hinton, John H.; Nau, Keith A.; and Budnik, Roger W., to Xerox Corporation. Illumination lamp assembly for a document scan system. 4,699,497, 10-13-87, Cl. 355-14.00E.

Hinton, Jonathan W.; Pratt, Donald S.; and Gehart, Edward J., to Champion Spark Plug Company. Method of and apparatus for isostatically pressing a body from particulate material. 4,655,984, 4-7-87, Cl. 264-314.000.

Hintsch, Otto, to Sulzer Brothers Limited. Torsion bar mounting for a projectile weaving machine. 4,635,684, 1-13-87, Cl. 139-1.00R.

Hintsch, Otto; and Ernst, Hanspeter, to Sulzer Brothers Limited. Catcher for a weaving machine. 4,640,318, 2-3-87, Cl. 139-439.000.

Hintsch, Otto, to Sulzer Brothers Limited. Brake for a projectile in a weaving machine. 4,669,512, 6-2-87, Cl. 139-185.000.

Hintsch, Otto, to Sulzer Brothers Limited. Guide for a picking element in a weaving machine. 4,669,513, 6-2-87, Cl. 139-188.00R.

Hintsch, Otto, to Sulzier Brothers. Weaving machine projectile brake. 4,674,544, 6-23-87, Cl. 139-185.000.

Hintz, Kenneth J., to United States of America, Navy. Apparatus for controlling multiple time-varying processes. 4,635,182, 1-6-87, Cl. 364-138.000.

Hintz, Robert T.; and Nichols, Roy L., to United States of America, Navy. Portable FLIR beacon. 4,638,508, 1-20-87, Cl. 455-617.000.

Hinz, Bernhard; and Steigleder, Walter, to Deutsch Forschungs- und Versuchsanstalt fur Luft- und Raumfahrt e.V. Valve spring retainer and process for its production. 4,665,869, 5-19-87, Cl. 123-90.670.

Hinz, Rolf. Oral vestibule plate for prophylactic purposes and early orthodontic treatment. 4,690,640, 9-1-87, Cl. 433-6.000.

Hinzen, Dieter: *See*—
  Hornykiewicz, Oleh; Hinzen, Dieter; and Schingnitz, Gunter, 4,645,770, Cl. 514-212.000.
  Weber, Karl-Heinz; Schneider, Claus; Walther, Gerhard; Hinzen, Dieter; Kuhn, Franz J.; Lehr, Erich; Ensinger, Helmut; and Troger, Wolfgang, 4,670,456, Cl. 514-424.000.

Hinzmann, Alfred, to Hauni-Werke Korber & Co. KG. Apparatus for filling ink cartridges. 4,633,923, 1-6-87, Cl. 141-116.000.

Hinzmann, Alfred, to Hauni-Richmond, Inc. Method and apparatus for making and manipulating inner tubes for use in dry cells or the like. 4,642,083, 2-10-87, Cl. 493-93.000.

Hinzmann, Alfred; Preisner, Peter; Presser, Erich; and Shu, Timor, to Hauni-Werke Korber & Co. KG. Apparatus for manipulating particles of tobacco or filter material. 4,681,124, 7-21-87, Cl. 131-109.100.

Hinzpeter, Jurgen, to Wilhelm Fette GmbH. Device for testing, in particular of tablets by weighing. 4,640,376, 2-3-87, Cl. 177-50.000.

Hinzpeter, Jurgen; and Schmidt, Ingo, to Wilhelm Fette GmbH. Circular pelletizing machine and method of controlling the same. 4,680,158, 7-14-87, Cl. 264-40.500.

Hioki, Takanori: *See*—
  Kubodera, Seiiti; Hioki, Takanori; and Okazaki, Masaki, 4,637,975, Cl. 430-353.000.
  Kubodera, Seiiti; Hioki, Takanori; and Okazaki, Masaki, 4,677,051, Cl. 430-550.000.

Hioki, Tatsumi: *See*—
  Kamigaito, Osami; Doi, Haruo; Noda, Shoji; Hioki, Tatsumi; Ito Akio; and Kakeno, Mitsutaka, 4,678,678, Cl. 427-38.000.

Hipkins, Edward C., Sr.; Locotos, Frank M.; and Comfort, Joseph D. to H & S Machine & Supply Co., Inc.; and F. M. Locotos Co., Inc. Method and apparatus for anchoring roof bolts. 4,655,645, 4-7-87, C 405-261.000.

Hipkins, Edward C., Sr.; and Locotos, Frank M., to F. M. Locotos Co. Inc., and H & S Machine & Supply Co., Inc. Truss bracket. 4,679,96 7-14-87, Cl. 405-288.000.

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Hipp, Betsy; Saltzman, Jeremy; and Dwyer, John J., to Dictaphone Corporation. Record and/or playback device with cue signal indication and access. 4,686,587, 8-11-87, Cl. 360-74.200.

Hipp, Betsy: *See*—
  Dwyer, John J.; Saltzman, Jeremy; and Hipp, Betsy, 4,688,117, C 360-72.300.
  Saltzman, Jeremy; Dwyer, John J.; and Hipp, Betsy, 4,677,501, C 360-72.200.

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  Goerner, Richard N.; Hipp, J. Michael; and Hipp, Ruth H. 4,692,544, Cl. 560-4.000.

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  Knurek, Thomas A.; Houston, Terry L.; and Hipsher, Gary L. 4,687,188, Cl. 267-140.100.

Hira, Govind L.; Osial, Thaddeus A.; and Ernst, Wentworth A., to Westinghouse Electric Corp. Method of welding aluminum alloys 4,665,294, 5-12-87, Cl. 219-121.0LD.

Hirabaru, Okikazu: *See*—
  Shirai, Hirofusa; Hanabusa, Kenji; Kitamura, Mitsutoshi; Ho Nobumasa; and Hirabaru, Okikazu, 4,663,084, Cl. 252-600.000.

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Hirabayashi, Hiromitsu; and Sakurai, Masaaki, to Canon Kabushiki Kaisha. Fixing device. 4,640,600, 2-3-87, Cl. 355-3.0FU.

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  Hamada, Toyohide; and Hirabayashi, Hisaaki, 4,674,181, C 29-703.000.

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  Akiyama, Susumu; Ito, Katsunori; Hirabayashi, Yuzi; Kinugawa, Masumi; and Omori, Norio, 4,671,242, Cl. 123-486.000.

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  Hudacsek, Istvan; Orcsik, Geza; Hazfalvy, Zoltan; Kotsis, Laszlo; Nemeth, Endre; Noe, Laszlo; and Ovari, Ferenc, 4,703,645, C 73-11.000.

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  Ino, Toshio; Maenosono, Tsukasa; Yoshida, Kazuo; Terasaki, Masanori; Kuriwaki, Tetsusho; Koga, Tadao; and Hirado, Miharu, 4,694,131, Cl. 219-10.410.
  Koga, Tadao; Sugimori, Mitsuru; Terasaki, Masanori; Maenosono, Tsukasa; Tsushima, Satoru; Yoshida, Kazuo; Kuriwaki, Tetsusho; and Hirado, Miharu, 4,687,894, Cl. 219-10.430.

Hiraga, Hisao: *See*—
  Sugita, Minoru; Nakatsuji, Teruyuki; Fujisaki, Tadashi; Hiraga, Hisao; Nishimoto, Takashi; and Futagawa, Minoru, 4,706,43 Cl. 52-309.160.

Hiraga, Tadayoshi: *See*—
  Kogure, Tomohiko; Hiraga, Tadayoshi; Mama, Riichiro; and Takasugi, Nobuhito, 4,649,975, Cl. 152-209.00R.

Hiraga, Yoichi: *See*—
  Nakatani, Masaki; and Hiraga, Yoichi, 4,637,922, Cl. 423-32.00R.

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  Ikenaga, Takao; Shigematsu, Toshifumi; Hamanaka, Tatsumi; and Hirahara, Manabu, 4,667,350, Cl. 4-304.000.

- Hirahara, Shuzo; Yamada, Kiyoshi; Higuchi, Kazuhiko; and Saito, Tutomu, to Kabushiki Kaisha Toshiba. Picture image reader. 4,692,812, 9-8-87, Cl. 358-285.000.
- Hirahara, Takuho: *See*—
  - Asami, Kazutomo; Sano, Fumiaki; Ishijima, Koji; Wada, Fumio; and Hirahara, Takuho, 4,645,429, Cl. 417-312.000.
  - Kawaguchi, Susumu; Hirahara, Takuho; Nakane, Kazuhiro; and Ueda, Sei, 4,636,152, Cl. 418-54.000.
  - Kawaguchi, Susumu; Hirahara, Takuho; Nakane, Kazuhiro; and Ueda, Sei, 4,676,726, Cl. 418-54.000.
  - Kawaguchi, Susumu; Hirahara, Takuho; Nakane, Kazuhiro; and Ueda, Sei, 4,704,076, Cl. 418-91.000.
- Hirai, Akira: *See*—
  - Saito, Katsuichi; Yoshikawa, Shokichiro; and Hirai, Akira, 4,676,439, Cl. 241-172.000.
  - Shibata, Nobuo; Hirai, Akira; Nakajima, Jun; Mori, Kenji; and Akatsu, Toshio, 4,667,082, Cl. 219-124.340.
- Hirai, Bunji: *See*—
  - Leistner, William E.; Nakahara, Yutaka; Hirai, Bunji; and Kanai, Mitsuharu, 4,692,485, Cl. 524-99.000.
- Hirai, Haruhiro: *See*—
  - Kasai, Kiyoshi; Hattori, Masayuki; Kikuchi, Osamu; Takeuchi, Hiromi; Hirai, Haruhiro; and Sakurai, Nobuo, 4,694,035, Cl. 524-458.000.
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- Hirai, Hidefumi; Komiyama, Makoto; Hara, Susumu; and Wada, Keichiro, to Nippon Steel Corporation. Solid adsorbent for carbon monoxide and process for separation from gas mixture. 4,696,682, 9-29-87, Cl. 55-68.000.
- Hirai, Hidefumi; Komiyama, Makoto; and Sugiura, Izuru, to Hirai, Hidefumi. Process for producing a para-substituted phenol derivative. 4,663,478, 5-5-87, Cl. 562-475.000.
- Hirai, Hideo: *See*—
  - Kitaura, Yoshihiko; Oku, Teruo; Hirai, Hideo; Yamamoto, Tosiyuki; and Hashimoto, Masashi, 4,650,804, Cl. 514-306.000.
  - Kitaura, Yoshihiko; Oku, Teruo; Hirai, Hideo; Yamamoto, Tosiyuki; and Hashimoto, Masashi, 4,698,349, Cl. 514-306.000.
- Hirai, Hiromu; Yamaguchi, Takashi; Takase, Fuyuto; and Yoshida, Tomomasa, to Hitachi, Ltd. Table device. 4,667,139, 5-19-87, Cl. 318-687.000.
- Hirai, Hiroyuki; and Kawata, Ken, to Fuji Photo Film Co., Ltd. Mixed anhydrides of carbamic and hydroxamic acids. 4,637,902, 1-20-87, Cl. 260-545.00R.
- Hirai, Hiroyuki, to Fuji Photo Film Co., Ltd. Heat-developable color photosensitive material. 4,668,612, 5-26-87, Cl. 430-523.000.
- Hirai, Hiroyuki; and Naito, Hideki, to Fuji Photo Film Co., Ltd. Heat development in presence of water. 4,704,345, 11-3-87, Cl. 430-203.000.
- Hirai, Hiroyuki; Sato, Kozo; Yabuki, Yoshiharu; and Kawata, Ken, to Fuji Photo Film Co., Ltd. Heat developable photographic materials. 4,705,737, 11-10-87, Cl. 430-203.000.
- Hirai, Hiroyuki: *See*—
  - Kawata, Ken; Yabuki, Yoshiharu; Sato, Kozo; and Hirai, Hiroyuki, 4,636,462, Cl. 430-617.000.
  - Kawata, Ken; Yabuki, Yoshiharu; Sato, Kozo; and Hirai, Hiroyuki, 4,640,892, Cl. 430-617.000.
  - Kawata, Ken; Yabuki, Yoshiharu; Sato, Kozo; and Hirai, Hiroyuki, 4,647,526, Cl. 430-353.000.
  - Kawata, Ken; Yabuki, Yoshiharu; Sato, Kozo; and Hirai, Hiroyuki, 4,668,615, Cl. 430-617.000.
  - Nakamura, Taku; and Hirai, Hiroyuki, 4,649,104, Cl. 430-617.000.
  - Sato, Kazo; Yabuki, Yoshiharu; Hirai, Hiroyuki; and Kawata, Ken, 4,659,653, Cl. 430-559.000.
  - Sato, Kozo; Yabuki, Yoshiharu; Hirai, Hiroyuki; and Kawata, Ken, 4,650,749, Cl. 430-617.000.
  - Sato, Kozo; Yabuki, Yoshiharu; Hirai, Hiroyuki; and Kawata, Ken, 4,657,848, Cl. 430-617.000.
  - Sato, Kozo; Kitaguchi, Hiroshi; and Hirai, Hiroyuki, 4,675,277, Cl. 430-448.000.
  - Yabuki, Yoshiharu; Sato, Kozo; Kawata, Ken; and Hirai, Hiroyuki, 4,639,418, Cl. 430-617.000.
  - Yabuki, Yoshiharu; Sato, Kozo; Kawata, Ken; and Hirai, Hiroyuki, 4,640,891, Cl. 430-551.000.
  - Yabuki, Yoshiharu; Sato, Kozo; Kawata, Ken; and Hirai, Hiroyuki, 4,649,103, Cl. 430-570.000.
  - Yabuki, Yoshiharu; Sato, Kozo; Kawata, Ken; and Hirai, Hiroyuki, 4,716,100, Cl. 430-570.000.
- Hirai, Hitoshi; Homma, Yoshikatsu; and Inoue, Tadashi, to Fujikura Ltd. End assembly for connection to end of ground wire with optical fiber. 4,674,832, 6-23-87, Cl. 350-96.210.
- Hirai, Kazumi; Akiyoshi, Mitsuo; Nakano, Chikao; Watanabe, Kenji; and Kodama, Satoru, to Matsushita Electric Industrial Co. Ltd. Cooking apparatus with weighing device. 4,673,800, 6-16-87, Cl. 219-518.000.
- Hirai, Kazumi: *See*—
  - Akiyoshi, Mitsuo; Hirai, Kazumi; Mitsumoto, Yoshio; and Hori, Ichiroh, 4,675,507, Cl. 219-406.000.
  - Yamaguchi, Kimiaki; and Hirai, Kazumi, 4,675,510, Cl. 219-518.000.
- Hirai, Kenichiro: *See*—
  - Koga, Mitsuyuki; Hirai, Kenichiro; Sugimae, Toshio; and Fukushige, Setsuo, 4,713,405, Cl. 523-212.000.
- Hirai, Kenji; and Torizuka, Hideki, to Kabushiki Kaisha Toshiba. Frequency converter. 4,648,129, 3-3-87, Cl. 455-317.000.
- Hirai, Kenji; and Kimura, Yoshinori, to Kabushiki Kaisha Toshiba. Frequency-changeable microwave signal generator having plural selectively operated oscillators. 4,688,004, 8-18-87, Cl. 331-49.000.
- Hirai, Kiyomiki; Takeuchi, Koji; Sakamoto, Hiroshi; and Abe, Masahiro, to Ajinomoto Co., Inc. One pack type alicyclic epoxy resin compositions. 4,689,388, 8-25-87, Cl. 528-104.000.
- Hirai, Koichi: *See*—
  - Miyazaki, Haruhiko; Hirai, Koichi; Uda, Taizo; Nakamura, Yasuo; Ikezawa, Harumi; and Tsuchie, Takanori, 4,647,551, Cl. 502-200.000.
- Hirai, Koji; Taniguchi, Shunro; Ishiguro, Michihiro; Murata, Yoshifumi; Yokota, Shinichi; Ishii, Masao; Yoshimura, Noriaki; and Okamura, Takayuki, to Kuraray Co., Ltd. Process for producing polyester polyurethane. 4,639,471, 1-27-87, Cl. 521-172.000.
- Hirai, Koji: *See*—
  - Komiya, Yukiatsu; and Hirai, Koji, 4,704,445, Cl. 528-49.000.
- Hirai, Masaru: *See*—
  - Hisamoto, Iwao; Hirai, Masaru; and Ishikawa, Sueyoshi, 4,695,488, Cl. 427-385.500.
- Hirai, Masatake: *See*—
  - Tanaka, Kazuhiro; Yamamoto, Yasuo; Hanaoka, Katsumi; and Hirai, Masatake, 4,639,707, Cl. 336-185.000.
  - Yamaguchi, Hiroshi; Tanaka, Teruaki; Hirai, Masatake; Kohketsu, Tadashi; Matsumoto, Masahiro; and Kawate, Kenji, 4,649,248, Cl. 219-10.570.
- Hirai, Masato; Kurata, Masami; and Yoshino, Ryozo, to Hitachi, Ltd., and Hitachi Computer Engineering Co., Ltd. Trunk coupling unit. 4,697,047, 9-29-87, Cl. 178-2.00C.
- Hirai, Masazumi: *See*—
  - Ogibayashi, Shigeaki; Yamada, Mamoru; Mukai, Tatsuo; Tezuka, Makoto; and Hirai, Masazumi, 4,687,047, Cl. 164-476.000.
- Hirai, Nobuyuki; and Watanabe, Mitsuo, to Hamamatsu Photonics Kabushiki Kaisha. Two dimensional weak emitted light measuring device. 4,704,522, 11-3-87, Cl. 250-213.0VT.
- Hirai, Ryoji: *See*—
  - Misumi, Akira; Hirai, Ryoji; and Watanabe, Rikizo, 4,713,576, Cl. 313-402.000.
- Hirai, Shin-ichiro; Okada, Hiroaki; and Yashiki, Takatsuka, to Takeda Chemical Industries, Ltd. Pharmaceutical composition and its nasal or vaginal use. 4,659,696, 4-21-87, Cl. 514-15.000.
- Hirai, Shin-ichiro: *See*—
  - Uda, Yoshiaki; Hirai, Shin-ichiro; and Yashiki, Takatsuka, 4,670,419, Cl. 514-16.000.
- Hirai, Shiro; Hirano, Hiroshi; Arai, Hirotoshi; Kiba, Yasuo; Shibata, Hisanari; Kasayanagi, Yoshikazu; Yotsuji, Minako; Hashiba, Kazuhiko; and Tanada, Kikuko, to Toyama Chemical Co., Ltd. Intermediates for urea and thiourea derivatives. 4,643,849, 2-17-87, Cl. 540-955.000.
- Hirai, Shoichi; and Watanabe, Sedakazu, to Tokyo Shibaura Denki Kabushiki Kaisha. Identity verification system. 4,716,593, 12-29-87, Cl. 381-42.000.
- Hirai, Tadaaki: *See*—
  - Kusano, Chushirou; Ishioka, Sachio; Imamura, Yoshinori; Takasaki, Yukio; Ogawa, Hirofumi; Makishima, Tatsuo; and Hirai, Tadaaki, 4,636,682, Cl. 313-386.000.
- Hirai, Toshimasa: *See*—
  - Inoue, Toshihide; Hirai, Toshimasa; and Okamoto, Masaru, 4,663,422, Cl. 528-176.000.
- Hirai, Toshiro: *See*—
  - Sakurai, Yoji; Hirai, Toshiro; Okada, Shigeto; Okada, Takeshi; Yamaki, Jun-ichi; and Ohtsuka, Hideaki, 4,675,260, Cl. 429-191.000.
- Hirai, Yasuharu, to Hitachi, Ltd. Photoelectric shock wave detection system for vacuum protection. 4,704,540, 11-3-87, Cl. 250-573.000.
- Hirai, Yoichi; Fujii, Tsunenori; Koto, Kaoru; Suzuki, Kenji; Yoshida, Masahiro; Okawa, Hisashi; Okabe, Yoshiaki; Kitamura, Teruo; Yokokura, Hisao; Hattori, Shintaroo; Mukoh, Akio; and Sato, Mikio, to Hitachi, Ltd.; and Kanto Chemical Co., Ltd. Colorless liquid crystalline compounds. 4,694,098, 9-15-87, Cl. 560-59.000.
- Hirai, Yoshiharu: *See*—
  - Okamoto, Tsugio; and Hirai, Yoshiharu, 4,647,238, Cl. 400-225.000.
- Hirai, Yoshikatsu: *See*—
  - Yamamura, Yuichi; Kishimoto, Tadamitsu; Nakai, Satoru; and Hirai, Yoshikatsu, 4,675,291, Cl. 435-68.000.
- Hirai, Yutaka; Torisu, Masaaki; and Nagayoshi, Eri, to Mitsui Toatsu Chemicals, Incorporated. Process for the preparation of 5,6,7,8-tetrahydrofolic acid. 4,665,176, 5-12-87, Cl. 544-258.000.
- Hirai, Yutaka; Matsuda, Hiroshi; Eguchi, Ken; Haruta, Masahiro; Nishimura, Yukuo; and Nakagiri, Takashi, to Canon Kabushiki Kaisha. Process for producing deposition films. 4,683,146, 7-28-87, Cl. 427-54.100.
- Hirai, Yutaka; Haruta, Masahiro; Nishimura, Yukuo; Matsuda, Hiroshi; and Nakagiri, Takashi, to Canon Kabushiki Kaisha. Semi-conductor device and electronic apparatus using the same. 4,695,717, 9-22-87, Cl. 250-213.00R.
- Hirai, Yutaka: *See*—
  - Eguchi, Ken; Matsuda, Hiroshi; Haruta, Masahiro; Nishimura, Yukuo; Hirai, Yutaka; and Nakagiri, Takashi, 4,683,147, Cl. 427-54.100.
  - Eguchi, Ken; Nishimura, Yukuo; Haruta, Masahiro; Matsuda, Hiroshi; Hirai, Yutaka; and Nakagiri, Takashi, 4,705,403, Cl. 356-319.000.
  - Komatsu, Toshiyuki; Hirai, Yutaka; Nakagawa, Katsumi; and Fukuda, Tadaji, 4,664,998, Cl. 430-64.000.

Matsuda, Hiroshi; Haruta, Masahiro; Hirai, Yutaka; Nishimura, Yukuo; Eguchi, Ken, and Nakagiri, Takashi, 4,693,915, Cl. 427-256.000.

Munakata, Hirohide; Tomida, Yoshinori; Haruta, Masahiro; Hirai, Yutaka; Nishimura, Yukuo; and Hamamoto, Takashi, 4,634,628, Cl. 430-325.000.

Nakagawa, Katsumi; Komatsu, Toshiyuki; Hirai, Yutaka; Misumi, Teruo; and Fukuda, Tadaji, 4,670,369, Cl. 430-128.000.

Nishimura, Yukuo; Eguchi, Ken; Matsuda, Hiroshi; Haruta, Masahiro; Hirai, Yutaka, and Nakagiri, Takashi, 4,683,144, Cl. 427-35.000.

Nishimura, Yukuo; Eguchi, Ken; Matsuda, Hiroshi; Haruta, Masahiro; Hirai, Yutaka; and Nakagiri, Takashi, 4,683,145, Cl. 427-36.000.

Osada, Yoshiyuki; Tsuda, Hisanori; Sano, Masafumi; Omata, Satoshi; Takasu, Katsuji; and Hirai, Yutaka, 4,645,684, Cl. 427-38.000.

Hiraishi, Atsushi: *See—*

Nakazato, Shinji; Uchida, Hideaki; Tanba, Nobuo; Gotoo, Nobuyuki; Onozawa, Kazunori; and Hiraishi, Atsushi, 4,672,416, Cl. 357-46.000.

Hiraishi, Kozo: *See—*

Takematsu, Tetsuo; Takeuchi, Yasutomo; Hiraishi, Kozo; Fujii, Toshikazu; Nishimula, Shoji; Suzuki, Motoyuki; Sato, Masahiro; and Hayashi, Hiroshi, 4,657,581, Cl. 71-118.000.

Hiraishi, Mamoru, to Heiwado Boueki Kabushiki Kaisha. Clasp for personal ornaments. 4,712,279, 12-15-87, Cl. 24-241.00R.

Hiraishi, Motomi: *See—*

Okamoto, Isao; Hiraishi, Motomi; Takai, Hideo; Kasai, Kenjiro; and Terada, Katsuyuki, 4,715,289, Cl. 105-199.200.

Hiraishi, Shigetoshi; Kondo, Kazuyoshi; and Banba, Takashi, to Mitsubishi Paper Mills, Ltd. Heat-sensitive recording material. 4,644,374, 2-17-87, Cl. 346-209.000.

Hiraishi, Shigetoshi: *See—*

Ikeda, Haruhiko; and Hiraishi, Shigetoshi, 4,688,058, Cl. 503-209.000.

Ikeda, Haruhiko; and Hiraishi, Shigetoshi, 4,707,463, Cl. 503-209.000.

Matsushita, Toshihiko; Morishita, Sadao; Sekine, Mikiya; and Hiraishi, Shigetoshi, 4,696,863, Cl. 428-402.200.

Hiraishi, Tomiyasu, to Omron Tateisi Electronics Co. Card reader. 4,645,914, 2-24-87, Cl. 235-380.000.

Hiraishi, Tomiyasu, to Omron Tateisi Electronics Co. Card processor with fail-safe card return upon power failure. 4,650,976, 3-17-87, Cl. 235-379.000.

Hiraiwa, Ichiro: *See—*

Yamada, Koichi; Hiraiwa, Ichiro; Taniguchi, Shin; and Zengo, Toshinari, 4,680,109, Cl. 210-103.000.

Hiraiwa, Kazuyoshi, to Nissan Motor Co., Ltd. Four-wheel drive automotive vehicle. 4,635,744, 1-13-87, Cl. 180-249.000.

Hiraiwa, Kazuyoshi, to Nissan Motor Co., Ltd. Planetary gear train for automotive transmission or the like. 4,638,688, 1-27-87, Cl. 74-763.000.

Hiraiwa, Kazuyoshi, to Nissan Motor Co., Ltd. Planetary gear train of automatic transmission. 4,653,347, 3-31-87, Cl. 74-759.000.

Hiraiwa, Kazuyoshi, to Nissan Motor Co., Ltd. Planetary gear train for automatic transmission. 4,653,348, 3-31-87, Cl. 74-759.000.

Hiraiwa, Kazuyoshi, to Nissan Motor Co., Ltd. Synchromesh transmission suited for use as automotive automatic transmission. 4,658,663, 4-21-87, Cl. 74-359.000.

Hiraiwa, Kazuyoshi, to Nissan Motor Co., Ltd. Planetary gear train for automatic transmission. 4,660,439, 4-28-87, Cl. 74-763.000.

Hiraiwa, Kazuyoshi, to Nissan Motor Company, Limited. Transmission with reverse and fifth speed synchronizer. 4,674,346, 6-23-87, Cl. 74-339.000.

Hiraiwa, Kazuyoshi, to Nissan Motor Co., Ltd. Four wheel drive system. 4,693,334, 9-15-87, Cl. 180-249.000.

Hiraiwa, Tadashi; and Ando, Eizi, to Showa Denko Kabushiki Kaisha. Method for dehydration of a composition of a fine powder and water. 4,686,774, 8-18-87, Cl. 34-9.000.

Hiraiwa, Toru: *See—*

Watanabe, Isao; Momonoi, Kaishu; Hiraiwa, Toru; Ono, Satoshi; Nakano, Joji; Nagumo, Katsuyuki; and Takagi, Hiroyasu, 4,713,387, Cl. 514-332.000.

Hiraizumi, Kazuo: *See—*

Shirato, Kozo; Hiraizumi, Kazuo; Kobayashi, Masashi; and Kawashima, Kazuyasu, 4,652,364, Cl. 210-87.000.

Shirato, Kozo; Hiraizumi, Kazuo; Kawashima, Kazuyasu; Okuyama, Shinya; Kobayashi, Masashi; Tanaka, Minoru; Takeya, Akira; Yamamoto, Yoshio; Koyama, Yasuo; Shinohara, Satoshi; and Yunoki, Toru, 4,680,552, Cl. 324-439.000.

Hiraka, Masahiro: *See—*

Nishino, Atsushi; Ikeda, Masaki; Watanabe, Yoshihiro; and Hiraka, Masahiro, 4,694,573, Cl. 29-846.000.

Hirakata, Kaoru; Mochizuki, Masaaki; Kanai, Hideo; and Itai, Reiichi, to Japan Carlit Co., Ltd., The. Electrolytic cell for producing periodates. 4,687,565, 8-18-87, Cl. 204-258.000.

Hirakawa, Hiromasa: *See—*

Ishikawa, Toshimitsu; Ozawa, Mishihiro; Sakurai, Mikio; Konno, Mutsuo; Aizawa, Yasuhiro; Igarashi, Takao; and Hirakawa, Hiromasa, 4,686,079, Cl. 376-444.000.

Hirakawa, Norishige; Okada, Kazuo; and Sato, Kazuhiko, to Iwaki Co., Ltd. Self-priming pump. 4,684,333, 8-4-87, Cl. 417-420.000.

Hirakawa, Osamu: *See—*

Umeha, Genkichi; Urano, Shigeru; Hirakawa, Osamu; and Takegushi, Shunsuke, 4,644,912, Cl. 123-90.340.

Umeha, Genkichi; Urano, Shigeru; Hirakawa, Osamu; and Takeg shi, Shunsuke, 4,649,011, Cl. 264-267.000.

Umeha, Genkichi; and Hirakawa, Osamu, 4,665,766, Cl. 74-567.00

Hirakawa, Shuji, to Kabushiki Kaisha Toshiba. Digital automatic vide delay system. 4,635,100, 1-6-87, Cl. 358-19.000.

Hirakawa, Shuji: *See—*

Shinohara, Nobutaka; Hirakawa, Shuji; Minami, Akihiko; an Tanaka, Koichi, 4,646,154, Cl. 358-183.000.

Hirakawa, Tadashi; Sasashige, Hiroaki; and Okawa, Haruo, to Mi subishi Jukogyo Kabushiki Kaisha. Lower roll apparatus for sing facer. 4,644,896, 2-24-87, Cl. 118-44.000.

Hirakawa, Tadashi; and Okamoto, Arifumi, to Mitsubishi Jukogy Kabushiki Kaisha. Sheet delivery device. 4,657,236, 4-14-87, C 271-99.000.

Hirakawa, Tadashi; Waseda, Masashi; Kusubayashi, Toshiaki; an Tokumaru, Isao, to Mitsubishi Jukogyo Kabushiki Kaisha. She stacker. 4,667,953, 5-26-87, Cl. 271-280.000.

Hirakawa, Tadashi; and Yano, Tadashi, to Mitsubishi Jukogyo Kab shiki Kaisha. Intermittent feeding apparatus for a continuous she 4,706,863, 11-17-87, Cl. 226-95.000.

Hirakawa, Tadashi: *See—*

Nishimura, Kunio; and Hirakawa, Tadashi, 4,710,432, C 428-542.800.

Hirakawa, Tatsuo: *See—*

Sadaki, Hiroshi; Narita, Hirokazu; Imaizumi, Hiroyuki; Kono Yoshinori; Inaba, Takihiro; Hirakawa, Tatsuo; Taki, Hideo; Ta Masaru; Watanabe, Yasuo; and Saikawa, Isamu, 4,673,738, C 540-222.000.

Hiraki, Kazuhiro: *See—*

Shoji, Makoto; Tsuyuguchi, Hiroshi; Toma, Shozo; Hira Kazuhiro; and Morita, Tsutomu, 4,677,510, Cl. 360-99.000.

Shoji, Makoto; Tsuyuguchi, Hiroshi; Toma, Shozo; Hira Kazuhiro; and Morita, Tsutomu, 4,688,112, Cl. 360-60.000.

Hiraki, Sei: *See—*

Arakawa, Kazumi; Hirao, Toshiyuki; Sugiura, Kenji; Kuni Satoshi; Hiraki, Sei; Suzuki, Takao; and Nakai, Ken, 4,640,3 Cl. 164-440.000.

Hiraki, Shunichi; Usuki, Yoshikazu; and Takimoto, Kazuhiro, to Toky Shibaura Denki Kabushiki Kaisha. Process of producing a semico ductor device. 4,647,472, 3-3-87, Cl. 427-39.000.

Hirakiuchi, Masanori: *See—*

Kusano, Takae; Ueno, Masato; and Hirakiuchi, Masano 4,654,006, Cl. 433-168.100.

Hirakoso, Yohei: *See—*

Niki, Shoji; Takahashi, Toshiro; and Hirakoso, Yohei, 4,680,54 Cl. 324-78.00R.

Hirakouchi, Yoshie; Toisawa, Osamu; and Takahashi, Masatoshi, t Lion Corporation. Aqueous high concentration surfactant slurr containing an olefin sulfonate. 4,715,991, 12-29-87, Cl. 252-555.00

Hirakura, Koji; and Ikesue, Masumi, to Ricoh Co., Ltd. Developin unit of dry type. 4,700,659, 10-20-87, Cl. 118-652.000.

Hirakushi, Shuzo: *See—*

Daido, Toshihiko; Matsubara, Hideo; and Hirakushi, Shuz 4,640,380, Cl. 180-141.000.

Ijiri, Waichiro; and Hirakushi, Shuzo, 4,637,484, Cl. 180-142.00

Hirama, Koichi; Miyazawa, Yuji; and Kotake, Haruhiko, to Toy Communication Equipment Co., Ltd. Gas pressure sensor. 4,703,65 11-3-87, Cl. 73-702.000.

Hirama, Shigemitsu; Aida, Satoru; and Soyama, Hideo, to Japan To bacco Inc.; and Sanjo Machine Works Ltd. Article delivery transferring device in a collective packing machine. 4,680,919, 7-21-87, C 53-499.000.

Hirama, Shinichi; Nishiyama, Toshio; Ohta, Youichi; Uzuka, Makot Tomita, Kenichi; Nakajima, Keisuke; and Furuse, Kazumaro, to Es Co., Ltd. Composition for reducing natural hair fall-out. 4,713,39 12-15-87, Cl. 514-690.000.

Hiramatsu, Akira; and Mukohjima, Hitoshi, to Canon Kabushiki Ka sha. Vibration wave motor. 4,645,964, 2-24-87, Cl. 310-323.000.

Hiramatsu, Akira; Mukohjima, Hitoshi; Kaneda, Naoya; Okuno, Taku Seki, Hiroyuki; Tsukimoto, Takayuki; Izukawa, Kazuhiro; and Okumura, Ichiro, to Canon Kabushiki Kaisha. Vibration wave motor 4,692,651, 9-8-87, Cl. 310-323.000.

Hiramatsu, Akira: *See—*

Ishizaki, Akira; Akashi, Akira; Ohtaka, Keiji; Suda, Yasuo; and Hiramatsu, Akira, 4,643,557, Cl. 354-406.000.

Kawamura, Masaharu; and Hiramatsu, Akira, 4,693,582, C 354-403.000.

Mukohjima, Hitoshi; and Hiramatsu, Akira, 4,649,311, C 310-323.000.

Mukoujima, Hitoshi; Hiramatsu, Akira; Murakami, Hiroyasu; and Katsuma, Makoto, 4,634,915, Cl. 310-323.000.

Notagashira, Hidefumi; Sumi, Akiyasu; Inaba, Hiroyoshi; Katsuma Makoto; Murakami, Hiroyasu; and Hiramatsu, Akira, 4,660,93 Cl. 350-255.000.

Ohtaka, Keiji; Akashi, Akira; Ishizaki, Akira; Suda, Yasuo; and Hiramatsu, Akira, 4,670,645, Cl. 250-201.000.

Ohtaka, Keiji; Hiramatsu, Akira; Suda, Yasuo; Akashi, Akira; and Ishizaki, Akira, 4,698,492, Cl. 250-201.000.

Okumura, Ichiro; Tsukimoto, Takayuki; Okuno, Takuo; Izukawa Kazuhiro; Seki, Hiroyuki; Mukohjima, Hitoshi; Kaneda, Naoya and Hiramatsu, Akira, 4,692,650, Cl. 310-323.000.

Suda, Yasuo; Ishizaki, Akira; Ohtaka, Keiji; Akashi, Akira; and Hiramatsu, Akira, 4,634,255, Cl. 354-406.000.

Suda, Yasuo; Akashi, Akira; and Hiramatsu, Akira, 4,709,138, C 250-201.000.

Hiramatsu, Eiji; and Shiraishi, Daiichi, to Toyota Jidosha Kabushiki Kaisha. Construction of door frame in motor vehicle. 4,667,442, 5-26-87, Cl. 49-441.000.

Hiramatsu, Kenichi; Nozawa, Hidebumi; and Yamauchi, Takashi, to Kasei Verbatim Corporation. Apparatus for centering and attaching a reinforcing ring to a floppy disk. 4,687,536, 8-18-87, Cl. 156-556.000.

Hiramatsu, Kinuo: *See*—

Honda, Kazuo; Horii, Yoshiaki; Hiramatsu, Kinuo; Nakamoto, Shuhei; and Kudo, Takashi, 4,678,054, Cl. 180-225.000.

Hiramatsu, Minoru; Kawasaki, Hitoshi; and Kusano, Fumio, to Okayama-Ken. Process for manufacturing zinc-silica composite plated steel. 4,655,882, 4-7-87, Cl. 204-16.000.

Hiramatsu, Shigeki: *See*—

Takada, Mitsuru; Itoh, Hiroshi; Hiramatsu, Shigeki; and Tamura, Tadashi, 4,682,518, Cl. 74-867.000.

Hiramatsu, Soichi, to Canon Kabushiki Kaisha. Recording apparatus. 4,668,961, 5-26-87, Cl. 346-76.0PH.

Hiramatsu, Soichi, to Canon Kabushiki Kaisha. Thermal head. 4,701,593, 10-20-87, Cl. 219-216.000.

Hiramatsu, Takeo; and Nagayoshi, Yoshimasa, to Mitsubishi Jidosha Kogyo Kabushiki Kaisha. Control system for a clutch interposed between input and output shafts of hydrodynamic power transmitting device. 4,6[illegible]2,488, 5-5-87, Cl. 192-3.580.

Hiramatsu, Takeo; and Takamiya, Bonnosuke, to Mitsubishi Jidosha Kogyo Kabushiki Kaisha. Continuously variable transmission apparatus for automobile. 4,665,773, 5-19-87, Cl. 74-866.000.

Hiramatsa, Takeo; and Nagayoshi, Yoshimasa, to Mitsubishi Jidosha Kogyo Kabushiki Kaisha. Power transmission apparatus for vehicle. 4,676,336, 6-30-87, Cl. 180-233.000.

Hiramatsu, Takeo: *See*—

Yoneda, Haruaki; and Hiramatsu, Takeo, 4,660,697, Cl. 192-0.033.

Hiramatsu, Tatsuo, to Sanyo Electric Co., Ltd. Auto focus circuit for video camera. 4,638,364, 1-20-87, Cl. 358-227.000.

Hiramatsu, Tohru; Matsuhisa, Yohji; and Higuchi, Tomitake, to Toray Industries, Inc. Ultrahigh strength carbon fibers. 4,637,925, 1-20-87, Cl. 423-447.400.

Hiramatsu, Tooru; Tami, Kazuya; and Osawa, Kozo, to Tokyo Juki Industrial Co., Ltd. Apparatus for setting a workpiece correctly on a sewing machine. 4,648,335, 3-10-87, Cl. 112-114.000.

Hiramatsu, Toshiyuki: *See*—

Azuma, Shizuo; Hiramatsu, Toshiyuki; Nakagawa, Koji; and Ichikawa, Yataro, 4,685,952, Cl. 71-86.000.

Hiramatsa, Yoshiharu: *See*—

Adachi, Ikuo; Hiramatsu, Yoshiharu; Ueda, Motohiko; and Kawakami, Masaru, 4,703,051, Cl. 514-291.000.

Hiramatu, Yasuzo: *See*—

Fujimura, Hajime; Hiramatu, Yasuzo; Yabuuchi, Takahiro; Hisaki, Masakatu; Takikawa, Katsuo; Honna, Takaji; Miyake, Hidekazu; and Kajitani, Makoto, 4,666,911, Cl. 514-255.000.

Hiramitsu, Tetsushi: *See*—

Hirano, Atsuo; Hiramitsu, Tetsushi; and Ohno, Satoshi, 4,702,705, Cl. 439-15.000.

Ishikawa, Masanobu; Nishikawa, Masumi; Ono, Satoshi; Hiramitsu, Tetsushi; and Hirano, Atsuo, 4,698,838, Cl. 379-58.000.

Ono, Satoshi; Hiramitsu, Tetsushi; and Hirano, Atsuo, 4,667,529, Cl. 74-492.000.

Hiramoto, Kazuo, to Hitachi, Ltd. Radar apparatus. 4,691,204, 9-1-87, Cl. 342-22.000.

Hiramoto, Kazuo: *See*—

Michiguchi, Yoshihiro; Hiramoto, Kazuo; Nishi, Masatsugu; and Takahashi, Fuminobu, 4,677,438, Cl. 342-22.000.

Michiguchi, Yoshihiro; Takahashi, Fuminobu; Hiramoto, Kazuo; Nishi, Masatsugu; and Sonoda, Shinji, 4,706,031, Cl. 324-337.000.

Hiramoto, Masao: *See*—

Ishikawa, Kiyotsugu; Takamura, Tohru; Sone, Yoshiaki; Hashimoto, Susumu; and Hiramoto, Masao, 4,670,777, Cl. 358-48.000.

Hiramoto, Michiaki: *See*—

Watanabe, Koji; Watanabe, Mitsuo; Toyoda, Naoki; Toyoda, Hideo; Kumano, Toshio; and Hiramoto, Michiaki, 4,667,481, Cl. 62-235.000.

Hiramoto, Seigo: *See*—

Sakamoto, Masahiko; Yamane, Yoshio; and Hiramoto, Seigo, 4,654,506, Cl. 219-121.0ES.

Hiramoto, Shigeru: *See*—

Otake, Noboru; Seto, Haruo; Sasaki, Tetsuo; Sugita, Masanori; and Hiramoto, Shigeru, 4,649,135, Cl. 514-183.000.

Hiramoto, Sotozi: *See*—

Tomita, Tomoya; Hiramoto, Sotozi; Okubo, Takesi; Matsuo, Kuniyuki; Ashihara, Hiromoto; Nakamura, Mitsuo; Takahashi, Tsutomu; Fujino, Motoaki; and Hosaka, Kenji, 4,637,134, Cl. 29-741.000.

Hiramoto, Takashi: *See*—

Mitani, Tadayuki; Endo, Mamoru; and Hiramoto, Takashi, 4,698,441, Cl. 562-531.000.

Hiramoto, Tatsumi; Iwai, Ikuo; Ohyama, Masachika; and Narita, Mitsuo, to Ushio Denki Kabushiki Kaisha. Process for the exposure of semiconductor wafer. 4,704,346, 11-3-87, Cl. 430-311.000.

Hiramoto, Yukio, to Nissan Motor Co., Ltd. Position and direction of motion sensing system. 4,698,828, 10-6-87, Cl. 377-3.000.

Hirane, Hideo: *See*—

Tadauchi, Masaharu; Inuzuka, Tatsuki; Hirane, Hideo; and Sato, Kunio, 4,654,677, Cl. 346-153.100.

Hirano, Akihiro: *See*—

Tsuji, Katsuya; Tanimoto, Masahiro; Hirano, Akihiro; and Yamada, Takeshi, 4,705,669, Cl. 422-93.000.

Hirano, Akira, to NEC Corporation. Motion compensated interframe decoding apparatus. 4,684,984, 8-4-87, Cl. 358-136.000.

Hirano, Atsuo; Hiramitsu, Tetsushi; and Ohno, Satoshi, to Toyoda Gosei Co., Ltd. Steering wheel. 4,702,705, 10-27-87, Cl. 439-15.000.

Hirano, Atsuo: *See*—

Ishikawa, Masanobu; Nishikawa, Masumi; Ono, Satoshi; Hiramitsu, Tetsushi; and Hirano, Atsuo, 4,698,838, Cl. 379-58.000.

Ono, Satoshi; Hiramitsu, Tetsushi; and Hirano, Atsuo, 4,667,529, Cl. 74-492.000.

Hirano, Atsushi: *See*—

Omura, Satoshi; Iwai, Yuzuru; Hinotozawa, Kiyoizumi; and Hirano, Atsushi, 4,666,715, Cl. 424-122.000.

Hirano, Hirofumi; Nakamura, Masaaki; Hasumi, Hitoshi; Inoue, Shoichi; and Furukawa, Akiteru, to Canon Kabushiki Kaisha. Serial printer including a laterally reciprocable recording head, paper bail control, paper detection and feeding means, a multicolor ink ribbon including a head cleaning zone, a ribbon cassette and ribbon shift means. 4,707,159, 11-17-87, Cl. 400-639.100.

Hirano, Hiroshi: *See*—

Hirai, Shiro; Hirano, Hiroshi; Arai, Hirotoshi; Kiba, Yasuo; Shibata, Hisanari; Kusayanagi, Yoshikazu; Yotsuji, Minako; Hashiba, Kazuhiko; and Tanada, Kikuko, 4,643,849, Cl. 540-955.000.

Hirano, Hiroyuki: *See*—

Aoyagi, Yoshiro; Kimura, Toshiyuki; Niinuma, Susumu; Yoshioka, Minoru; Yokogawa, Fumihiko; Matsumoto, Kenichi; Haeno, Akira; Sato, Takashi; Nishi, Yoshiro; Watanabe, Yoshihiko; Hirano, Hiroyuki; and Ogawa, Youichi, 4,701,902, Cl. 369-77.100.

Kumura, Haruyoshi; Abo, Keiju; Hirano, Hiroyuki; Yamamuro, Sigeaki; and Nakano, Masaki, 4,679,466, Cl. 74-863.000.

Nakano, Masaki; Yamamuro, Sigeaki; Hirano, Hiroyuki; Abo, Keiju; and Kumura, Haruyoshi, 4,651,776, Cl. 137-625.690.

Hirano, Isamu: *See*—

Hashimoto, Harumi; and Hirano, Isamu, 4,675,161, Cl. 422-56.000.

Hirano, Katsuhiko: *See*—

Takeda, Fumiteru; Hirano, Katsuhiko; and Inagaki, Yoshihiro, 4,711,148, Cl. 84-1.010.

Hirano, Kazuhisa: *See*—

Noguchi, Kenichi; and Hirano, Kazuhisa, 4,647,631, Cl. 525-510.000.

Hirano, Kazuo, to Sumitomo Electric Industries, Ltd. Normal and abnormal condition indicating device. 4,661,796, 4-28-87, Cl. 340-85.000.

Hirano, Kenichiro: *See*—

Inoue, Masayoshi; Hirano, Kenichiro; and Tanihata, Ryoichi, 4,682,353, Cl. 379-163.000.

Hirano, Kouichi: *See*—

Nishikawa, Makoto; Inada, Takeo; Tomoda, Hiroaki; Naruto, Eiro; Oki, Kazuyuki; and Hirano, Kouichi, 4,653,061, Cl. 70-271.000.

Hirano, Makoto: *See*—

Tomita, Takao; Matsuura, Masaaki; Hirano, Makoto; Handa, Masao; and Shiozaki, Tomoo, 4,671,228, Cl. 123-193.00P.

Hirano, Masao; Takaoka, Motoaki; and Shimura, Mikihiko, to Omron Tateisi Electronics Co. Temperature measuring apparatus. 4,679,157, 7-7-87, Cl. 364-557.000.

Hirano, Masao; Kato, Mitsutaka; Yasuda, Hirohiko; and Hineda, Seisuke, to Omron Tateisi Electronics Co. Temperature measurement system. 4,710,033, 12-1-87, Cl. 374-161.000.

Hirano, Masayasu: *See*—

Inoue, Manabu; Fujino, Akihiko; Hirano, Masayasu; Nakai, Masaaki; and Yoshida, Fumio, 4,707,104, Cl. 354-412.000.

Hirano, Minoru: *See*—

Kawai, Nobuyasu; Hirano, Minoru; Esaka, Hajime; and Fujimoto, Hirofumi, 4,671,930, Cl. 420-107.000.

Hirano, Mitsunori: *See*—

Okutsu, Eiichi; and Hirano, Mitsunori, 4,668,605, Cl. 430-267.000.

Hirano, Mitsutoshi: *See*—

Anahara, Meiji; Mizuno, Yoshikatsu; Hirano, Mitsutoshi; and Gomi, Fukuo, 4,671,336, Cl. 164-110.000.

Hirano, Motoki; Takeuchi, Mikio; and Nakano, Kinichiro, to Nissan Motor Company, Limited. Keyless entry system for automotive vehicle with power consumption saving feature. 4,688,036, 8-18-87, Cl. 340-825.690.

Hirano, Motoki: *See*—

Mochida, Haruo; Nakano, Kinichiro; Takeuchi, Mikio; and Hirano, Motoki, 4,672,375, Cl. 340-825.310.

Taniguchi, Yoshiyuki; and Hirano, Motoki, 4,670,746, Cl. 340-825.310.

Hirano, Mutsuo. Audio-frequency electromechanical vibrator. 4,635,287, 1-6-87, Cl. 381-194.000.

Hirano, Mutsuo, to Sanden Corporation. Athletic training unit with musical rhythm reproducing speaker and exerciser's pulse detecting means. 4,674,743, 6-23-87, Cl. 272-100.000.

Hirano, Norimitsu; and Ogawa, Masataka, to Shicoh Engineering Co., Ltd. Self-starting disk-type brushless motor with screw projection for generating cogging. 4,704,566, 11-3-87, Cl. 318-254.000.

Hirano, Riyuma: *See*—

Hamada, Kiyoshi; Watanabe, Masanori; Nonomura, Kinzo; Katsuyama, Minoru; and Hirano, Riyuma, 4,651,058, Cl. 315-98.000.

Hirano, Ryoichi, to Mitsubishi Denki Kabushiki Kaisha. Method of manufacturing semiconductor light emitting device. 4,637,845, 1-20-87, Cl. 148-171.000.

Hirano, Ryotaro: *See—*
  Shimizu, Isoo; Hirano, Ryotaro; Matsumura, Yasuo; Nomura, Hideki; Uchida, Kazumichi; and Sato, Atsushi. 4,694,100, Cl. 560-105.000.
Hirano, Satoshi: *See—*
  Ohba, Masahiro; Sugimoto, Hiroshi; Kamiya, Toru; Yamazaki, Toru; Tanabe, Hidemichi; Hirano, Satoshi; Namba, Hideaki; Matsui, Katsumasa; and Miura, Hisahiro. 4,668,873, Cl. 307-9.000.
Hirano, Seiji; and Sato, Youji, to Mazda Motor Corporation, and Nifco Inc. Cable holder for use in a vehicle body. 4,700,913, 10-20-87, Cl. 248-73.000.
Hirano, Shigeo: *See—*
  Takahashi, Toshiro; and Hirano, Shigeo. 4,699,873, Cl. 430-446.000.
Hirano, Shinichi, to Hirano, Shinichi; and Seiko Instruments & Electronics Ltd. Process for manufacturing calcium carbonate single crystal. 4,685,995, 8-11-87, Cl. 156-623.00R.
Hirano, Shinji, to Victor Company of Japan, Ltd. Helical scan type magnetic recording and/or reproducing apparatus. 4,665,450, 5-12-87, Cl. 360-84.000.
Hirano, Shinji: *See—*
  Ohira, Tsunehisa; Hirano, Shinji; and Sadakane, Koji. 4,642,713, Cl. 360-85.000.
Hirano, Takaaki; Kamuro, Setsufumi; Yamaguchi, Akira; Tanimoto, Junichi; and Okada, Mikiro, to Sharp Kabushiki Kaisha. Peripheral unit for a microprocessor system. 4,694,393, 9-15-87, Cl. 364-200.000.
Hirano, Takahisa; Fukami, Shoji; Maruiwa, Yasuharu; Itoh, Takuyuki; Sugimoto, Tamio; Ono, Tetsuo; and Mukai, Masatoshi, to Mitsubishi Jukogyo Kabushiki Kaisha. Scroll type fluid machine with prevention of stress concentration. 4,666,380, 5-19-87, Cl. 418-55.000.
Hirano, Takahisa; and Hagimoto, Kiyoshi, to Mitsubishi Jukogyo Kabushiki Kaisha. Rotary type fluid machine. 4,678,415, 7-7-87, Cl. 418-50.000.
Hirano, Takahisa; Fukami, Shoji; and Maeda, Mitsutosho, to Mitsubishi Jukogyo Kabushiki Kaisha. Rotary type fluid machine. 4,678,416, 7-7-87, Cl. 418-55.000.
Hirano, Takahisa; Fukami, Shoji; Maruiwa, Yasuharu; Itoh, Takuyuki; Sugimoto, Tamio; Ono, Tetsuo; and Mukai, Masatoshi, to Mitsubishi Jukogyo Kabushiki Kaisha. Method for forming scroll members used in a scroll type fluid machine. 4,696,084, 9-29-87, Cl. 29-156.40R.
Hirano, Takao: *See—*
  Fujiwara, Tatsuro; Ohta, Kazuyo; and Hirano, Takao. 4,652,638, Cl. 536-7.100.
  Fujiwara, Tatsuro; Ohta, Kazuyo; Honda, Eiichi; Hirano, Takao; and Sakakibara, Hideo. 4,661,588, Cl. 536-7.100.
Hirano, Takashi; and Taguchi, Michio, to Yamato Scale Company, Limited. Span adjusting device for weigher. 4,703,815, 11-3-87, Cl. 177-25.000.
Hirano, Tatsuo: *See—*
  Wada, Toshio; and Hirano, Tatsuo. 4,701,576, Cl. 174-117.00F
Hirano, Tokio: *See—*
  Kiyobe, Seiichiro; and Hirano, Tokio. 4,674,325, Cl. 73-73.000.
Hirano, Tomiyasu: *See—*
  Morita, Shuji; Sato, Katsujiro; Asaoka, Yoshio; Harada, Isao; and Hirano, Tomiyasu. 4,644,914, Cl. 123-90.550.
Hirano, Toshio: *See—*
  Yoshio, Junichi; Hirano, Toshio; Yasukawa, Kenichiro; and Yoshida, Masayuki. 4,642,812, Cl. 381-1.000.
Hirano, Tsumoru: *See—*
  Yagihara, Morio; Hirano, Tsumoru; Yamamoto, Tatsuya; and Sakanoue, Kei. 4,668,613, Cl. 430-548.000.
Hirano, Yasuo; and Nojima, Kazuo, to Ricoh Co., Ltd. Fixing roll. 4,702,964, 10-27-87, Cl. 428-447.000.
Hirano, Yasuo: *See—*
  Nishiyama, Masao; and Hirano, Yasuo. 4,691,004, Cl. 528-323.000.
Hirano, Yoshinori; and Hayashi, Yoshimasa, to Nissan Motor Co., Ltd. Cooling system for automotive engine or the like. 4,646,688, 3-3-87, Cl. 123-41.270.
Hirano, Yoshinori, to Nissan Motor Co., Ltd. Cooling system for automotive engine or the like. 4,658,766, 4-21-87, Cl. 123-41.270
Hirano, Yoshinori, to Nissan Motor Co., Ltd. Cooling system for automotive engine or the like. 4,664,073, 5-12-87, Cl. 123-41.210.
Hirano, Yoshinori; Kubozuka, Takao; and Ito, Yoji, to Nissan Motor Co., Ltd. Cooling system for automotive engine or the like. 4,669,426, 6-2-87, Cl. 123-41.150.
Hirano, Yoshinori; and Kubozuka, Takao, to Nissan Motor Co., Ltd. Cooling system for automotive engine or the like. 4,694,784, 9-22-87, Cl. 123-41.120.
Hirano, Yoshinori: *See—*
  Hayashi, Yoshimasa; and Hirano, Yoshinori. 4,667,626, Cl. 123-41.210.
  Hayashi, Yoshimasa; Minezaki, Yutaka; Ito, Yoji; Inoue, Naoyuki; and Hirano, Yoshinori. 4,700,664, Cl. 123-41.270.
Hirano, Yoshiyuki; Seo, Yosuke; Okuwaki, Toyoji; Kato, Katsuhiko; and Tamura, Takashi, to Hitachi, Ltd. Magnetic disk apparatus. 4,651,242, 3-17-87, Cl. 360-103.000.
Hirano, Yoshiyuki: *See—*
  Okazawa, Takeshi; and Hirano, Yoshiyuki. 4,716,131, Cl. 437-200.000.
Hiranuma, Hiromichi: *See—*
  Ikematsu, Morio; and Hiranuma, Hiromichi. 4,641,681, Cl. 137-315.000.
Hirao, Eiji: *See—*
  Takizawa, Shozo; Kobayashi, Kazuyoshi; Fukuyama, Kazuo; Tani, Masanori; Yamamoto, Shoji; Yuasa, Hiroo; Nishimori, Masayoshi; Yoshida, Hiroaki; Eto, Shinichi; Hirao, Eiji; and Go Masaki. 4,709,935, Cl. 280-91.000.
Hirao, Hiroshi: *See—*
  Suzuki, Yasuo; Hirao, Hiroshi; and Suzuki, Yasuaki. 4,653,023, C 365-104.000.
Hirao, Katsumi; and Miyake, Toshio. Composition for sealing slidi contact section. 4,683,150, 7-28-87, Cl. 427-239.000.
Hirao, Katsumi; and Miyake, Toshio, to Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo; and Kanpe Katei Toryoo Kabushiki Kaisha. Aerosol container and process for manufacturing same 4,685,597, 8-11-87, Cl. 222-389.000.
Hirao, Kouji; Kuwana, Kazutaka; and Asami, Ken, to Aisin Sei Kabushikikaisha; and Toyota Jidosha Kabushiki Kaisha. Apparatu for driving rod for rotation. 4,702,123, 10-27-87, Cl. 74-526.000.
Hirao, Masato, to Sanwa Shutter Corporation. Panel shutter mechanism. 4,662,420, 5-5-87, Cl. 160-32.000.
Hirao, Motohisa: *See—*
  Chinone, Naoki; Tsuji, Shinji; Fujisaki, Yoshihisa; Kashiwag Yasutoshi; and Hirao, Motohisa. 4,665,528, Cl. 372-96.000.
Hirao, Sumio; and Maki, Kunio, to Nissan Motor Co., Ltd. Gas turbin 4,659,245, 4-21-87, Cl. 403-30.000.
Hirao, Tadashi, to Mitsubishi Denki Kabushiki Kaisha. Solid-sta image sensor provided with a bipolar transistor and an MOS transistor. 4,651,016, 3-17-87, Cl. 250-578.000.
Hirao, Tadashi, to Mitsubishi Denki Kabushiki Kaisha. Method of manufacturing semiconductor device using a Czochralski wafer an multiple heat treatment. 4,661,166, 4-28-87, Cl. 148-1.500.
Hirao, Tadashi; and Maekawa, Shigeto, to Mitsubishi Denki Kabushi Kaisha. Solid state image sensing device. 4,665,422, 5-12-87, C 357-30.000.
Hirao, Tadashi, to Mitsubishi Denki Kabushiki Kaisha. Semiconducto device. 4,665,424, 5-12-87, Cl. 357-34.000.
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Hirao, Tetsuji: *See—*
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Hirao, Toshihiko: *See—*
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  Arakawa, Kazumi; Hirao, Toshiyuki; Sugiura, Kenji; Kurok Satoshi; Hiraki, Sei; Suzuki, Takao; and Nakai, Ken. 4,640,31 Cl. 164-440.000.
Hirao, Yoshiaki: *See—*
  Nagaoka, Yoshitomi; Matsuda, Yoshiteru; Hirao, Yoshiaki; Koga Ryuichiro; and Asakura, Hiroyuki. 4,673,274, Cl. 354-403.000.
Hiraoka & Co., Ltd.: *See—*
  Obayashi, Tsutomo; Watanabe, Shinobu; and Ino, Kazuhide 4,696,830, Cl. 427-41.000.
  Obayashi, Tsutomu; Watanabe, Shinobu; and Ino, Kazuhide 4,678,681, Cl. 427-38.000.
  Obayashi, Tsutomu; Ino, Kazuhide; Hiraoka, Yoshiji; and Baba Saburo. 4,686,135, Cl. 428-265.000.
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  Kuroda, Hideo; Mukawa, Naoki; Hiraoka, Makoto; Matsuda Kiichi; Nishiwaki, Mitsuo; and Tsugane, Shuzo. 4,677,480, Cl. 358-136.000.
Hiraoka, Nobutsugu: *See—*
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  Koezuka, Tetsuo; Hiraoka, Noriyuki; Tsukahara, Hiroyuki; and Nakashima, Masato. 4,672,678, Cl. 382-30.000.
Hiraoka, Osamu: *See—*
  Ogino, Yoshio; Shimomoto, Takeshi; and Hiraoka, Osamu 4,665,324, Cl. 307-126.000.
  Sugiyama, Yasuo; Hiraoka, Osamu; Nakazawa, Tamotsu; and Nakamura, Kenji. 4,643,939, Cl. 428-283.000.
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  Nagai, Shoichi; Hiraoka, Saburo; Hama, Shinji; and Senga, Mitsuo 4,659,386, Cl. 106-120.000.
Hiraoka, Shigeaki; and Seo, Takamasa, to Glory Kogyo Kabushiki Kaisha. Circulation type automatic money receiving and paying machine with note side identifying and note turning-over sections 4,697,071, 9-29-87, Cl. 235-379.000.
Hiraoka, Shin: *See—*
  Choushi, Masahiro; and Hiraoka, Shin. 4,643,137, Cl. 123-52.0MV

Hiraoka, Shinitiro; and Matsuda, Hideo, to Sharp Kabushiki Kaisha. Automatic sheet winding and outputting apparatus. 4,699,368, 10-13-87, Cl. 271-82.000.

Hiraoka, Shinitiro: *See*—

Matsuda, Hideo; and Hiraoka, Shinitiro, 4,634,113, Cl. 271-259.000.

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Hatamura, Kouichi; Hiraoka, Tetsuo; Hokazono, Kazuaki; and Seike, Shinji, 4,708,097, Cl. 123-52.00M.

Hiraoka, Yoshiji: *See*—

Obayashi, Tsutomu; Ino, Kazuhide; Hiraoka, Yoshiji; and Baba, Saburo, 3,686,135, Cl. 428-265.000.

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Hirasato, Bunji: *See*—

Mitsukuchi, Kunio; Ito, Hiromitsu; Eguchi, Isamu; Hirasato, Bunji; and Furuhata, Takashi, 4,701,583, Cl. 200-148.00B.

Hirasawa, Junichi: *See*—

Mochimaru, Hideaki; Shi[illegible]da, Kazuyuki; and Hirasawa, Junichi, 4,703,334, Cl. 346-160.000.

Hirasawa, Kazuhiro: *See*—

Yamamoto, Junko; Fujimoto, Kyohei; Hirasawa, Kazuhiro; and Kuboyama, Haruhiro, 4,701,763, Cl. 343-700.0MS.

Hirasawa, Kazushige, to Matsushita Electric Industrial Co., Ltd. Consumable electrode type pulse arc welding machine. 4,647,754, 3-3-87, Cl. 219-130.210.

Hirasawa, Kazushige; Shimizu, Yasuhiro; and Matsumura, Takemasa, to Matsushita Electric Industrial Co., Ltd. Time-based interpolation control of a robot. 4,683,543, 7-28-87, Cl. 364-513.000.

Hirasawa, Kiyoshi: *See*—

Tsuchiya, Isamu; and Hirasawa, Kiyoshi, 4,68[illegible],782, Cl. 369-270.000.

Hirasawa, Kotaro: *See*—

Fukunaga, Yasushi; Kuzunuki, Soshiro; Shojima, Hiroshi; Yokoyama, Takanori; Koga, Kazuyoshi; Hirasawa, Kotaro; and Kawada, Shinichi, 4,641,354, Cl. 382-13.000.

Kuzunuki, Soshiro; Shojima, Hiroshi; Yokoyama, Takanori; Fukunaga, Yasushi; and Hirasawa, Kotaro, 4,680,804, Cl. 382-13.000.

Shojima, Hiroshi; Kuzunuki, Soshiro; and Hirasawa, Kotaro, 4,653,107, Cl. 382-13.000.

Hirasawa, Masahide: *See*—

Masui, Toshiyuki; Hirasawa, Masahide; Kozuki, Susumu; Kashida, Motokazu; Takei, Masahiro; and Nagasawa, Kenichi, 4,675,867, Cl. 371-31.000.

Takei, Masahiro; Kozuki, Susumu; Masui, Toshiyuki; Hirasawa, Masahide; and Kashida, Motokazu, 4,696,008, Cl. 371-47.000.

Hirasawa, Ronald T. Promotional article. 4,685,699, 8-11-87, Cl. 281-15.00R.

Hirasawa, Shigeki: *See*—

Nakayama, Wataru; Hirasawa, Shigeki; and Nakajima, Tadakatsu, 4,694,378, Cl. 361-385.000.

Hirasawa, Yukihiro: *See*—

Kitabayashi, Motoi; Hayashi, Takuo; Ozawa, Norihiko; Hirasawa, Yukihiro; and Miyazawa, Naotoshi, 4,647,813, Cl. 313-509.000.

Hirasawa, Yutaka: *See*—

Hashimoto, Matsuo; Kiyomoto, Masayuki; Karasawa, Yoshimitsu; Sakamoto, Kenji; Kakui, Yasuhiko; and Hirasawa, Yutaka, 4,675,252, Cl. 428-431.000.

Hirashima, Isao: *See*—

Sakamoto, Toshinori; Hirashima, Isao; and Tsuji, Seiichi, 4,690,432, Cl. 280-775.000.

Hirashima, Masayoshi: *See*—

Nozoe, Toshiro; Yamashita, Akira; Hirashima, Masayoshi; and Fukuda, Shin, 4,667,235, Cl. 358-147.000.

Hirata, Akio, to Kabushiki Kaisha Toshiba. Load-commutated inverter for operating synchronous motor. 4,654,572, 3-31-87, Cl. 318-722.000.

Hirata, Akira: *See*—

Kokubo, Eiichi; Osako, Kyoichi; Hirata, Akira; Oshita, Mizuo; Ito, Toshiaki; Seki, Kazuyuki; Yoshikawa, Eiichi; and Miyazaki, Osamu, 4,699,272, Cl. 209-534.000.

Hirata, Atsumi: *See*—

Shinyagaito, Tatsuya; Kuramoto, Terumasa; Machida, Toyotaka; Saito, Kikuji; Shichijo, Shunichi; Yamagishi, Tooru; Kobayashi, Yoshinao; Ishii, Kazuyoshi; and Hirata, Atsumi, 4,695,904, Cl. 358-342.000.

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Hirata, Chiaki: *See*—

Takahashi, Ken; Hirata, Chiaki; and Ishioka, Yuji, 4,712,629, Cl. 180-68.100.

Hirata, Hidetoshi, to Kabushiki Kaisha Toshiba. Cooking apparatus with timer. 4,713,528, 12-15-87, Cl. 219-492.000.

Hirata, Hideyuki, to NEC Corporation. Subscriber line interface circuit having an impedence synthesizer. 4,661,978, 4-28-87, Cl. 379-394.000.

Hirata, Ichiro: *See*—

Hongo, Suzuaki; Niwa, Minoru; Hashiba, Takahiro; Harata, Mitsuru; Hirata, Ichiro; Ito, Isamu; and Sonobe, Akihiko, 4,709,944, Cl. 280-777.000.

Hirata, Kaoru: *See*—

Sasaki, Makoto; Yoshida, Jun; Shimizu, Yoshishige; Akazawa, Kiyoshi; Kishita, Eiji; and Hirata, Kaoru, 4,713,291, Cl. 428-373.000.

Hirata, Katsuhiko; and Ishii, Syuzo, to Ashimori Industry Co., Ltd. Buckle for seat belts. 4,703,542, 11-3-87, Cl. 24-641.000.

Hirata, Kazuhiko: *See*—

Kakinoki, Toshiyuki; and Hirata, Kazuhiko, 4,688,277, Cl. 4-623.000.

Hirata, Kazuo: *See*—

Ishimori, Shozo; Ishida, Mikio; Miki, Hiroyuki; Ishizumi, Seiichi; and Hirata, Kazuo, 4,696,365, Cl. 180-233.000.

Miki, Hiroyuki; Nakata, Yasuo; Hirata, Kazuo; Ishizumi, Seiichi; and Funabashi, Genich., 4,669,565, Cl. 180-89.120.

Hirata, Kiichi, to West Tsusho Co., Ltd. Underwater cleaning apparatus. 4,697,536, 10-6-87, Cl. 114-222.000.

Hirata, Koichi: *See*—

Yoshimura, Motokazu; Hirata, Koichi; and Kurebayashi, Kimie, 4,688,192, Cl. 364-900.000.

Hirata, Makizo: *See*—

Fujikawa, Tetsuzo; Hirata, Makizo; and Tamba, Shinichi, 4,658,767, Cl. 123-52.0MV.

Fujikawa, Tetsuzo; Hirata, Makizo; and Tamba, Shinichi, 4,682,573, Cl. 123-90.200.

Fujikawa, Tetsuzo; Hirata, Makizo; and Tamba, Shinichi, 4,683,847, Cl. 123-90.200.

Fujikawa, Tetsuzo; Hirata, Makizo; Tamba, Shinichi; and Fukui, Noboru, 4,697,555, Cl. 123-90.230.

Hirata, Masaki, to NEC Corporation. Method for etching a silicon substrate. 4,664,762, 5-12-87, Cl. 204-129.300.

Hirata, Minoru: *See*—

Sugihara, Hirosada; and Hirata, Minoru, 4,672,064, Cl. 514-253.000.

Hirata, Miyoshi: *See*—

Hibino, Mitsugu; Kanada, Taira; and Hirata, Miyoshi, 4,690,907, Cl. 436-514.000.

Sakai, Yasuo; and Hirata, Miyoshi, 4,680,274, Cl. 436-512.000.

Hirata, Naonori: *See*—

Noguchi, Hiroshi; Kato, Toshiro; Takahashi, Junya; Ishiguri, Yukio; Yamamoto, Shigeo; and Hirata, Naonori, 4,666,943, Cl. 514-627.000.

Tomioka, Hiroki; Yano, Toshihiko; Takeda, Hisami; and Hirata, Naonori, 4,668,693, Cl. 514-399.000.

Tomioka, Hiroki; Ooishi, Tadashi; Takahashi, Junya; Sasaki, Mitsuru; and Hirata, Naonori, 4,709,052, Cl. 548-548.000.

Yano, Toshihiko; Takada, Yoji; Tomioka, Hiroki; and Hirata, Naonori, 4,689,340, Cl. 514-399.000.

Hirata, Osamu, to Canon Kabushiki Kaisha. Electronic equipment for storing number of searches of information. 4,688,189, 8-18-87, Cl. 364-900.000.

Hirata, Osamu: *See*—

Nishimuro, Yoshiaki; Hirata, Osamu; Kano, Kuniomi; Miyakawa, Akira; Fushimoto, Hideo; and Sekine, Kazumi, 4,698,783, Cl. 364-710.000.

Hirata, Sadao: *See*—

Maruhashi, Yoshitsugu; Tanikawa, Isao; and Hirata, Sadao, 4,699,809, Cl. 427-230.000.

Maruhashi, Yoshitsugu; Tanikawa, Isao; and Hirata, Sadao, 4,714,580, Cl. 264-516.000.

Hirata, Seiichi: *See*—

Sakurai, Toshiharu; and Hirata, Seiichi, 4,654,692, Cl. 357-68.000.

Hirata, Seiichiro, to Mitsubishi Denki Kabushiki Kaisha. Navigator for use aboard a vehicle. 4,688,176, 8-18-87, Cl. 364-449.000.

Hirata, Shigeaki, to Kabushiki Kaisha Toshiba. Broadcast system for scrambled programming signals. 4,700,387, 10-13-87, Cl. 380-20.000.

Hirata, Shoji, to Sony Corporation. Method of manufacturing a distributed feedback type semiconductor device. 4,716,132, 12-29-87, Cl. 437-228.000.

Hirata, Tadashi; Kobayashi, Shigeru; Takahashi, Keiichi; Morimoto, Makoto; and Arai, Yuko, to Kyowa Hakko Kogyo Co., Ltd. DX-52-1 compounds and process for preparing the same. 4,650,869, 3-17-87, Cl. 544-343.000.

Hirata, Tadashi; Hashimoto, Yukio; Ogasa, Takehiro; Kobayashi, Shigeru; Sato, Akira; Sato, Kiyoshi; and Takasawa, Seigo, to Kyowa Hakko Kogyo Co., Ltd. Optically active cephalosporin analogs. 4,663,450, 5-5-87, Cl. 540-205.000.

Hirata, Tadashi; Ikeda, Hidekatsu; Arima, Yoshitaka; and Kashihara, Yoshihiko, to Amada Company, Limited. Shearing machine. 4,679,473, 7-14-87, Cl. 83-157.000.

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Hirata, Tadashi; Matsukuma, Ikuo; Yoshiie, Shigeo; Sato, Kiyoshi; and Ohashi, Yoichi, to Kyowa Hakko Kogyo Co., Ltd. 3-position halogenated cephalosporin analogs and pharmaceutical compositions. 4,708,956, 11-24-87, Cl. 514-210.000.

Hirata, Tadashi: *See*—

Mochida, Kenichi; Ogasa, Takehiro; Shimada, Junichi; Hirata, Tadashi; Sato, Kiyoshi; and Okachi, Ryo, 4,640,919, Cl. 514-241.000.

Takai, Haruki; Nomoto, Yuji; Hirata, Tadashi; Ohno, Tetsuji; and Kubo, Kazuhiro, 4,668,683, Cl. 514-259.000.

Hirata, Takaaki: *See*—

Iwaoka, Hideto; Sugiyama, Tadashi; Matsuura, Hiroyuki; and Hirata, Takaaki, 4,694,250, Cl. 324-309.000.

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Hirata, Terutaka: *See—*

Tamura, Hisashi; Hirata, Terutaka; Odohira, Tetsu; and Ogawa, Tadahiro, 4,644,798, Cl. 73-708.000.

Hirata, Toichi: *See—*

Okabe, Nobuya; Hirata, Toichi; Yoshida, Kuniaki; Sugiyama, Genroku; Haga, Masakazu; Tanaka, Hideaki; and Tatsumi, Akira, 4,697,418, Cl. 60-434.000.

Hirata, Toraohiko: *See—*

Namba, Mutsusuke; Shirasaki, Osamu; and Hirata, Toraohiko, 4,650,815, Cl. 521-77.000.

Hirata, Toshitaka: *See—*

Hirota, Tetsuro; Araki, Shigeyuki; Yokoyama, Shizuo; Masui, Haruyoshi; and Hirata, Toshitaka, 4,661,822, Cl. 346-75.000.

Hirata, Tsutomu: *See—*

Matsumoto, Kunio; Kagimoto, Yoshitaka; Hirata, Tsutomu; Watanabe, Susumu; Ohtsuka, Akira; and Takahashi, Kiyoharu, 4,675,290, Cl. 435-24.000.

Matsumoto, Kunio; and Hirata, Tsutomu, 4,681,841, Cl. 435-18.000.

Hirata, Yasushi; Kondo, Hitoshi; Kono, Masanao; and Sanada, Yasuyoshi, to Bridgestone Corporation; and Harima Chemicals, Inc. Rubber composition. 4,665,119, 5-12-87, Cl. 524-399.000.

Hirata, Yasushi; Kondo, Hitoshi; Otomo, Shigemitsu; and Ueda, Hisahito, to Bridgestone Corporation. Rubber composition. 4,675,355, 6-23-87, Cl. 524-236.000.

Hirata, Yasushi; Kondo, Hitoshi; Yokoyama, Goro; and Ohara, Masaki, to Bridgestone Corporation. Rubber compositions having improved reinforcing properties and low heat build-up. 4,690,965, 9-1-87, Cl. 524-236.000.

Hirata, Yoshiaki: *See—*

Ichikawa, Wataru; Matsuki, Yuji; Hirata, Yoshiaki; and Ito, Mikiya, 4,695,235, Cl. 425-29.000.

Hirata, Yoshihiro: *See—*

Murata, Tsuneo; Hirata, Yoshihiro; Miyagawa, Toshio; and Nishikawa, Fumikazu, 4,670,791, Cl. 358-256.000.

Hiratani, Hajime: *See—*

Nishimura, Toyohiko; and Hiratani, Hajime, 4,676,983, Cl. 424-101.000.

Yuki, Yoshikazu; Nishimura, Toyohiko; and Hiratani, Hajime, 4,665,161, Cl. 530-412.000.

Hiratani, Masahiko; Miyauchi, Katsuki; Ito, Yukio; Kanehori, Keiichi; Kirino, Fumiyoshi; and Kudo, Tetsuichi, to Hitachi, Ltd. Solid state lithium battery. 4,645,726, 2-24-87, Cl. 429-191.000.

Hirate, Takashi. Thin-film electroluminescent device of emitting-light-color changeable type. 4,666,793, 5-19-87, Cl. 428-690.000.

Hiratsuka, Kazuya; Sato, Yuichi; Aoki, Yoshiyasu; Yui, Hiroshi; Miyabayashi, Mitsutaka; and Itsubo, Akira, to Toshiba Battery Co., Ltd.; and Mitsubishi Petrochemical Co., Ltd. Secondary battery using non-aqueous solvent. 4,702,977, 10-27-87, Cl. 429-194.000.

Hiratsuka, Kosai: *See—*

Muroi, Katsumi; Hiratsuka, Kosai; Yoshinaga, Shoji; Nakatsui, Toji; Oda, Chikao; and Fujiwara, Kiyoshi, 4,698,142, Cl. 204-182.300.

Hiratsuka, Seiichiro: *See—*

Haneda, Satoshi; Shoji, Hisashi; and Hiratsuka, Seiichiro, 4,666,804, Cl. 430-45.000.

Haneda, Satoshi; Shoji, Hisashi; and Hiratsuka, Seiichiro, 4,679,929, Cl. 355-4.000.

Shoji, Hisashi; Haneda, Satoshi; and Hiratsuka, Seiichiro, 4,641,200, Cl. 358-296.000.

Shoji, Hisashi; Haneda, Satoshi; Hiratsuka, Seiichiro; Fuma, Hiroshi; Soma, Shinobu; Itaya, Masahiko; Tamura, Akihiko; and Hayakawa, Kazushi, 4,669,864, Cl. 355-15.000.

Shoji, Hisashi; Haneda, Satoshi; and Hiratsuka, Seiichiro, 4,680,625, Cl. 358-80.000.

Shoji, Hisashi; Haneda, Satoshi; and Hiratsuka, Seiichiro, 4,696,880, Cl. 430-42.000.

Hiratsuka, Shigetoshi: *See—*

Mego, Kazuyoshi; Hiratsuka, Shigetoshi; and Hara, Eiichi, 4,636,813, Cl. 346-76.0PH.

Hiratsuka, Shoji: *See—*

Nakatsugawa, Kenji; Katayama, Aiichi; Sekiya, Hitoshi; and Hiratsuka, Shoji, 4,642,519, Cl. 315-1.000.

Hiratsuka, Shozaburo: *See—*

Makino, Shoji; Matsui, Michikage; and Hiratsuka, Shozaburo, 4,670,343, Cl. 428-395.000.

Hiratsuka, Tatsufumi: *See—*

Yamagishi, Naomichi; Mori, Kenji; Okumura, Tsuguo; Hiratsuka, Tatsufumi; and Sugiyama, Masayoshi, 4,634,840, Cl. 219-388.000.

Hirawata, Seiichi; and Kobayashi, Shigeru, to Niles Parts Co., Ltd. Contact mechanism of electrical contact pieces. 4,700,162, 10-13-87, Cl. 335-196.000.

Hirayama, Akira: *See—*

Kawabata, Juheiji; Sugie, Toshinori; Kobata, Fumihiro; and Hirayama, Akira, 4,678,831, Cl. 524-496.000.

Hirayama, Chikara; and Andrew, Kenneth F., to North American Philips Corporation. High-pressure sodium vapor lamp and ternary amalgam therefor. 4,639,639, 1-27-87, Cl. 313-639.000.

Hirayama, Kanae: *See—*

Ishii, Katsumi; Hirayama, Kanae; Matsuoka, Yoshio; and Takahashi, Kotei, 4,715,466, Cl. 180-233.000.

Hirayama, Makoto: *See—*

Sannohe, Kunio; Otsuka, Kengo; Ito, Toshohiko; Maruyama, Masahiko; Kitano, Takafumi; and Hirayama, Makoto, 4,639,52 Cl. 546-141.000.

Hirayama, Noriyuki; Ohshima, Masaaki; Takenaka, Naoki; and Ki Yoshihiro, to Matsushita Electric Industrial Co., Ltd. Semiconductor lasers. 4,661,960, 4-28-87, Cl. 372-45.000.

Hirayama, Shoji; and Inada, Mitsuharu, to Sony Corporation. Cordles telephone. 4,639,549, 1-27-87, Cl. 379-62.000.

Hirayama, Takeshi: *See—*

Amano, Matsuo; Shida, Masami; Sakamoto, Masahide; Hirayama, Takeshi; and Sasayama, Takao, 4,703,430, Cl. 364-431.050.

Hirayama, Tsukasa; Takeuchi, Yukihisa; and Miura, Yasunao, to Nippondenso Co., Ltd. Equipment for trapping particulates in engi exhaust gas. 4,662,911, 5-5-87, Cl. 55-282.000.

Hirayama, Yoichi: *See—*

Shibagaki, Taro; Ibe, Hiroyuki; Tamura, Toshifumi; Ozeki, Takeshi; and Hirayama, Yoichi, 4,704,715, Cl. 370-50.000.

Hirayama, Yukio: *See—*

Yoshizawa, Junji; Tsuchiya, Yoshimi; Hirayama, Yukio; Shimada, Kaoru; Mino, Nobuyuki; Nakamichi, Kyoko; and Matsumo Ikuo, 4,668,799, Cl. 514-252.000.

Hirayama, Yuzo: *See—*

Furuyama, Hideto; and Hirayama, Yuzo, 4,676,863, C 156-626.000.

Hird, Edwin A. Measurement digitizer. 4,704,798, 11-10-87, C 33-138.000.

Hiro, Masaaki; and Hasegawa, Tetsuo, to Canon Kabushiki Kaish Electrophotographic photosensitive member and process for forming electrophotographic images using same. 4,654,288, 3-31-87, C 430-126.000.

Hiro, Masaaki: *See—*

Yoshihara, Toshiyuki; Hiro, Masaaki; and Watanabe, Katsum 4,716,091, Cl. 430-66.000.

Hirochi, Katsuji: *See—*

Shimauchi, Yoshiki; and Hirochi, Katsuji, 4,689,502, C 307-443.000.

Hirohara, Toshihide: *See—*

Watanabe, Haruo; Tajima, Eiichi; Matsunaga, Masaaki; Hirohara, Toshihide; Iinuma, Yoshio; Ando, Naotake; Takahashi, Shigeyuki; and Takahashi, Teruaki, 4,643,526, Cl. 350-332.000.

Hirohashi, Kazutoshi: *See—*

Ishigaki, Yukinobu; Namiki, Yasuomi; Fujiwara, Hisashige; and Hirohashi, Kazutoshi, 4,698,693, Cl. 358-310.000.

Hirohashi, Setsuo; Shimosato, Yukio; and Watanabe, Masahiko, t Hirohashi, Setsuo; Shimosato, Yukio; Watanabe, Masahiko; and Nippon Kayaku Kabushiki Kaisha. Monoclonal antibody to huma cancer antigen and method for producing same. 4,683,200, 7-28-87, Cl. 435-68.000.

Hirohata, Nobuyuki, to Hirohata, Nobuyuki. Grinding machine 4,707,946, 11-24-87, Cl. 51-129.000.

Hirohata, Toshio, to Nifco, Inc. Fastener for coupling together tw panels in face-to-face relation. 4,668,145, 5-26-87, Cl. 411-508.000.

Hirohata, Toshio, to Nifco Inc. Mechanism for opening and closing lid. 4,688,695, 8-25-87, Cl. 220-336.000.

Hiroi, Kazuo; and Ito, Kojiro, to Kabushiki Kaisha Toshiba. Process control apparatus for optimal adaptation to a disturbance. 4,698,74 10-6-87, Cl. 364-165.000.

Hiroi, Kazuo; and Ito, Kojiro, to Kabushiki Kaisha Toshiba. Feedforward feedback control having predictive disturbance compensatio 4,714,988, 12-22-87, Cl. 364-165.000.

Hiroi, Takashi; Ninomiya, Takanori; and Nakagawa, Yasuo, to Hitachi Ltd. Inspection method and apparatus for joint junction state 4,641,527, 2-10-87, Cl. 73-582.000.

Hirokane, Junji: *See—*

Takahashi, Akira; Murakami, Yoshiteru; Hirokane, Junji; Katayama, Hiroyuki; and Ohta, Kenji, 4,695,514, Cl. 428-432.000.

Hirokawa, Ikuo: *See—*

Maehara, Junichiro; Izumi, Kenzo; and Hirokawa, Ikuo, 4,703,07 Cl. 524-476.000.

Hirokawa, Katsuhisa, to Kabushiki Kaisha Toshiba. Memory card 4,672,182, 6-9-87, Cl. 235-436.000.

Hirokawa, Yoshitsugu: *See—*

Kitahara, Shizuo; Hirokawa, Yoshitsugu; Kawada, Haruki; Fuji, Toshihiro; Sugi, Nagatoshi; Hasegawa, Hiroaki; and Yoshioka, Akira, 4,654,435, Cl. 560-61.000.

Kitahara, Shizuo; Hirokawa, Yoshitsugu; and Fuji, Toshihiro, 4,677,153, Cl. 524-552.000.

Hiroki, Toru: *See—*

Isobe, Minoru; Imai, Shuichi; Hiroki, Toru; Kodama, Tadasi; and Ohara, Waturu, 4,688,955, Cl. 400-248.000.

Hiromasa, Shunichiro: *See—*

Kondo, Toshio; Kobayashi, Akio; Hiromasa, Shunichiro; Masuda, Akira; and Miyaki, Masahiko, 4,649,745, Cl. 73-204.000.

Hiromori, Kunio; and Noguchi, Masahiko, to NEC Corporation. Fl article feeding apparatus. 4,648,587, 3-10-87, Cl. 271-12.000.

Hiromori, Kunio: *See—*

Noguchi, Masahiko; and Hiromori, Kunio, 4,643,626, C 414-103.000.

Hiromoto, Yasuhiko; and Mizuhiro, Yoji, to Mitsubishi Acetate Kabushiki Kaisha; and Matsumoto Yushi-Seiyaku Co., Ltd. Finishes for filling yarns in air jet loom process. 4,676,837, 6-30-87, C 106-271.000.

Hironaka, Kenichi: *See*—
- Tajima, Fumio; Katayama, Hiroshi; Miyashita, Kunio; Tamura, Teizo; Hironaka, Kenichi; Kawano, Takuro; Sekita, Yosimi; Saito, Kouichi; and Tamura, Akira, 4,672,253, Cl. 310-269.000.

Hironaka, Yoshiaki, to Kioritz Corporation. Power train of mowing machine. 4,714,447, 12-22-87, Cl. 464-52.000.

Hirono, Akira, to Kuroi Glass Industry Co., Ltd. Decorator lamp. 4,698,735, 10-6-87, Cl. 362-230.000.

Hirono, Tatsuo: *See*—
- Ito, Masaji; Midorikawa, Akira; Shinada, Masayuki; Hirono, Tatsuo; Yoshino, Hirobumi; and Shibusawa, Mitsuo, 4,682,158, Cl. 340-679.000.
- Midorikawa, Akira; Ito, Masaji; Shinada, Masayuki; Hirono, Tatsuo; Yoshino, Hirobumi; and Shibusawa, Mitsuo, 4,677,310, Cl. 307-64.000.

Hironori Kushibiki: *See*—
- Kariya, Akinori; Nabekawa, Shukichi; Hara, Yoshifusa; and Taguchi, Junji, 4,694,095, Cl. 558-186.000.

Hirooka, Hiroshi; Saito, Takeshi; and Urabe, Hirobumi, to Mitsubishi Denki Kabushiki Kaisha Nihon Kentetsu Co., Ltd. Washing machine. 4,676,077, 6-30-87, Cl. 68-12.00R.

Hirooka, Kazuhiko: *See*—
- Hayashi, Kimiyoshi; Ohno, Akio; Hirooka, Kazuhiko; and Murayama, Yasushi, 4,697,915, Cl. 355-14.00D.

Hirooka, Masaaki; Ishihara, Shunichi; Hanna, Junichi; and Shimizu, Isamu, to Canon Kabushiki Kaisha. Formation of deposited film. 4,657,777, 4-14-87, Cl. 427-39.000.

Hirooka, Masaki: *See*—
- Nakai, Etsurou; Yamazaki, Hiroaki; and Hirooka, Masaki, 4,699,858, Cl. 429-254.000.

Hiros, Laszlo; Banati, Gabor; and Lipscher, Ervin, to Medicor Muvek. Ionisator for vehicles. 4,682,265, 7-21-87, Cl. 361-231.000.

Hirosaki, Botaro; and Tanaka, Osamu, to NEC Corporation. Apparatus for cancelling periodic carrier phase jitters. 4,639,939, 1-27-87, Cl. 375-118.000.

Hirosaki, Botaro; and Kuriyama, Takashi, to NEC Corporation. Phase-locked loop with supplemental phase signal. 4,642,575, 2-10-87, Cl. 331-1.00A.

Hirosaki, Botaro, to NEC Corporation. Differential coding system and apparatus therefor. 4,661,945, 4-28-87, Cl. 370-20.000.

Hirosaki, Yoshihiko; and Takata, Nobuharu, to Mitsubishi Denki Kabushiki Kaisha. Air flow controlling apparatus. 4,637,296, 1-20-87, Cl. 98-1.000.

Hirosaki, Yoshihiko, to Mitsubishi Denki Kabushiki Kaisha. Airflow control apparatus. 4,644,238, 2-17-87, Cl. 318-332.000.

Hirosaki, Yukihiro; Koike, Seiji; and Hamada, Motonobu, to Tokyo Electric Co., Ltd. Label printer. 4,666,319, 5-19-87, Cl. 400-120.000.

Hirosaki, Yukihiro; Koike, Seiji; Hamada, Motonobu; Ohhata, Takahiko; Inoue, Yasuo; Karibe, Haruyuki; and Hama, Hideki, to Tokyo Electric Co., Ltd.; and Sony Corporation. Labeling apparatus. 4,671,844, 6-9-87, Cl. 156-542.000.

Hirosawa, Kozo: *See*—
- Kobayashi, Waichi; Usui, Koji; Hirosawa, Kozo; and Sadatani, Tetsuya, 4,707,270, Cl. 210-683.000.

Hirosawa, Makoto, to Dainippon Screen Mfg. Co., Ltd. Allocation of recording area onto photosensitive film. 4,656,504, 4-7-87, Cl. 358-75.000.

Hirosawa, Makoto, to Dainippon Screen Mfg. Co., Ltd. System for allocating images onto photosensitive materials utilizing flags. 4,684,979, 8-4-87, Cl. 358-75.000.

Hirosawa, Makoto, to Dainippon Screen Mfg. Co., Ltd. Cutting reproduction images out of a sheet of exposed film. 4,704,927, 11-10-87, Cl. 83-13.000.

Hirosawa, Makoto: *See*—
- Hatayama, Fumihiro; and Hirosawa, Makoto, 4,668,996, Cl. 358-298.000.

Hirosawa, Toshiaki; Akiyama, Yoshie; Ebisawa, Isao; Hattori, Yoshifumi; and Abe, Tsutomu, to Canon Kabushiki Kaisha. Ink tube connecting system in a liquid jet recording apparatus. 4,684,962, 8-4-87, Cl. 346-140.00R.

Hirosawa, Toshio; Ohki, Masaru; Motobayashi, Shigeru; and Kuwahara, Yutaka, to Hitachi, Ltd. Computer network having a host-local file I/O operation. 4,646,235, 2-24-87, Cl. 364-200.000.

Hirosawa, Toshio: *See*—
- Ohki, Masaru; Hirosawa, Toshio; Kurihara, Junichi; and Miyazaki, Katsuto, 4,649,480, Cl. 364-300.000.

Hirosawa, Yasunori; and Okudaira, Souichirou, to Toyota Jidosha Kabushiki Kaisha. Apparatus for opening and closing louver. 4,658,925, 4-21-87, Cl. 180-68.100.

Hirosawa, Yoshiaki: *See*—
- Yagi, Shizuo; Hirosawa, Yoshiaki; Kawai, Makoto; and Fujii, Isao, 4,694,799, Cl. 123-425.000.

Hirose Denki Kabushiki Kaisha: *See*—
- Nishino, Yoshimitsu; Tsuruda, Wataru; Koike, Kihachiro; and Matsuoka, Kensaku, 4,678,256, Cl. 439-347.000.

Hirose, Eiichi, to Alps Electric Co., Ltd. Magnetic head for digital signals. 4,650,712, 3-17-87, Cl. 428-323.000.

Hirose, Eiichi, to Alps Electric Co., Ltd. Straddle type magnetic head. 4,677,514, 6-30-87, Cl. 360-119.000.

Hirose Electric Co., Ltd.: *See*—
- Kikuta, Shigeru, 4,699,438, Cl. 439-95.000.
- Kikuta, Sigeru, 4,639,067, Cl. 339-143.00R.
- Matsuzaki, Shuichi; and Nakazawa, Akira, 4,668,040, Cl. 339-125.00R.
- Mitani, Ikujirou; Kawanami, Norihide; and Kobayashi, Fumio, 4,678,261, Cl. 439-582.000.
- Nakazawa, Akira; Kikuta, Shigeru; Koike, Kihachiro; Matsuoka, Kensaku; and Nishino, Yoshimitsa, 4,681,388, Cl. 439-449.000.
- Nakazawa, Akira; Kikuta, Shigeru; Koike, Kihachiro; Matsuoka, Kensaku; and Nishino, Yoshimitsu, 4,681,389, Cl. 439-557.000.
- Nakazawa, Akira; and Watanabe, Tooru, 4,699,595, Cl. 439-676.000.
- Soma, Keiji, 4,671,596, Cl. 439-404.000.
- Soma, Keiji, 4,713,025, Cl. 439-752.000.
- Yahata, Katsumi, 4,636,024, Cl. 339-103.00M.

Hirose, Fumio: *See*—
- Ueno, Saburo; Yoshikumi, Chikao; Omura, Yoshio; Fujii, Takayoshi; Wada, Toshihiko; Takahashi, Eiichi; and Hirose, Fumio, 4,699,787, Cl. 424-95.000.
- Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,637,998, Cl. 514-42.000.
- Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,649,133, Cl. 514-42.000.
- Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,657,895, Cl. 514-42.000.
- Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,663,312, Cl. 514-42.000.
- Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,673,669, Cl. 514-42.000.
- Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,708,950, Cl. 514-42.000.

Hirose, Fumiyuki: *See*—
- Iizuka, Nobuyuki; Hisano, Katsukuni; Wada, Katsuo; Kunihiro, Masashi; Hirose, Fumiyuki; Ishibashi, Yoji; Sato, Isao; Arai, Osamu; Inose, Hiroshi; and Sakuda, Osamu, 4,677,822, Cl. 60-39.230.
- Iizuka, Nobuyuki; Hisano, Katsukuni; Oshima, Ryoichiro; Wada, Katsuo; Hirose, Fumiyuki; Kuroda, Michio; Uchiyama, Yoshihiro; Ishibashi, Yoji; Sato, Isao; and Inose, Hiroshi, 4,683,715, Cl. 60-39.060.
- Iizuka, Nobuyuki; Hirose, Fumiyuki; Sato, Isao; and Ishibashi, Yoji, 4,704,869, Cl. 60-751.000.

Hirose, Haruki: *See*—
- Petty, Terry D.; Costello, Carmon R.; Song, Kun K.; Chabot, Luc G.; Fujita, Tadahiro; Hirose, Haruki; and Yoshimura, Nobutoshi, 4,639,167, Cl. 405-217.000.

Hirose, Haruomi; and Atobe, Takashi, to Daiwa Seiko, Inc. Fishing reel with microcomputer. 4,697,758, 10-6-87, Cl. 242-84.10M.

Hirose, Hujio: *See*—
- Morishita, Koji; Hirose, Hujio; Nakatsuka, Nobuo; and Nishimura, Masahiro, 4,679,932, Cl. 356-28.000.

Hirose, Ichiro; and Sagawa, Takayoshi, to Japan Tobacco & Salt Public Corporation. The Cigarette filter, method and apparatus for making same. 4,709,711, 12-1-87, Cl. 131-336.000.

Hirose, Ichiro: *See*—
- Kumata, Katsuhiko; Endo, Isao; Numa, Syozi; Hirose, Ichiro; Sagawa, Takayoshi; and Matono, Katsuyoshi, 4,661,034, Cl. 414-416.000.
- Kumata, Katsuhiko; Endo, Isao; Numa, Syozi; Hirose, Ichiro; Sagawa, Takayoshi; and Matono, Katsuyoshi, 4,696,617, Cl. 414-422.000.

Hirose, Isao; Amemiya, Tamio; and Sakai, Tokuji, to Teijin Petrochemical Industries, Ltd. Process for producing 2,6-naphthalene-dicarboxylic acid. 4,709,088, 11-24-87, Cl. 562-414.000.

Hirose, Isao, to Teijin Petrochemical Industries, Ltd. Process for producing 2,6-naphthalenedicarboxylic acid. 4,716,245, 12-29-87, Cl. 562-416.000.

Hirose, Iwao: *See*—
- Fukushima, Masao; Hirose, Iwao; and Miyauchi, Yoshio, 4,664,502, Cl. 355-10.000.

Hirose, Kazutaka; and Shimazu, Yutaka, to Mazda Motor Corporation. Adjustable seat assembly. 4,653,807, 3-31-87, Cl. 297-367.000.

Hirose, Kazutaka; and Watanabe, Hiroyuki, to Mazda Motor Corporation. Back door structures for motor vehicles. 4,688,844, 8-25-87, Cl. 296-76.000.

Hirose, Ken-ichi: *See*—
- Shirafuji, Tamio; Sakai, Kiyomi; and Hirose, Ken-ichi, 4,716,253, Cl. 568-895.000.

Hirose, Kenichi: *See*—
- Sato, Hiroshi; Ishii, Norio; and Hirose, Kenichi, 4,642,409, Cl. 585-486.000.
- Sato, Hiroshi; Ishii, Norio; and Hirose, Kenichi, 4,654,457, Cl. 585-486.000.
- Sato, Hiroshi; Hirose, Kenichi; Ishii, Norio; and Umeda, Youichi, 4,709,024, Cl. 540-536.000.

Hirose, Kenji: *See*—
- Kurokawa, Ryogo; Oyama, Fusami; Takahashi, Akira; and Hirose, Kenji, 4,652,002, Cl. 180-79.100.

Hirose, Kimiharu; and Furuya, Yoshikatsu, to Aisin Seiki Kabushiki Kaisha. Gear drive apparatus. 4,646,887, 3-3-87, Cl. 192-8.00C.

Hirose, Kimiharu: *See*—
- Fukumoto, Ryoichi; and Hirose, Kimiharu, 4,665,651, Cl. 49-352.000.

Hirose, Koichi: *See*—
- Nakagawa, Isao; Yamamoto, Akihiro; Hirose, Koichi; Okada, Yoshinori; and Kudo, Mitsuru, 4,634,995, Cl. 330-261.000.

- Shibata, Akira; Kondo, Kazuo; and Hirose, Koichi, 4,689,579, Cl. 330-257.000.

Hirose, Kunihiko, to Kabushiki Kaisha Toshiba. Recording apparatus and method of transporting recording paper. 4,663,638, 5-5-87, Cl. 346-136.000.

Hirose, Kunio; Hukuta, Tadatoshi; Horiuchi, Hiroshi; Urakami, Toyozo; and Yoshida, Minoru, to Sanyo Electric Co., Ltd. Mode setting arrangement for use in video tape recorder. 4,670,801, 6-2-87, Cl. 360-85.000.

Hirose Manufacturing Company, Ltd.: *See*—
- Hirose, Tokuzo; and Inoue, Ikuo, 4,641,118, Cl. 335-282.000.
- Hirose, Tokuzo, 4,671,196, Cl. 112-228.000.
- Hirose, Tokuzo, 4,691,648, Cl. 112-121.110.
- Hirose, Tokuzo; and Shimizu, Hiromitsu, 4,700,643, Cl. 112-231.000.

Hirose, Masahiko: *See*—
- Shiraishi, Yasuhisa; Fujita, Takashi; Ochi, Yoshiharu; Hirose, Masahiko; Ichihara, Katsutarou; and Ishigami, Takashi, 4,634,635, Cl. 428-446.000.

Hirose, Masanori: *See*—
- Buma, Shuuichi; Yokoya, Yuji; Araki, Hitoshi; Hirose, Masanori; Miyata, Hiroshi; and Ohashi, Kaoru, 4,666,135, Cl. 267-64.210.
- Yokoya, Yuji; Buma, Shuuichi; Araki, Hitoshi; Miyata, Hiroshi; Hirose, Masanori; and Ohashi, Kaoru, 4,648,621, Cl. 280-707.000.

Hirose, Masataka; Ueno, Tsuyoshi; and Suzuki, Katsumi, to Hirose, Masatata; and Kabushiki Kaisha Toshiba. Amorphous silicon film forming apparatus. 4,633,809, 1-6-87, Cl. 118-719.000.

Hirose, Masataka; Yamanishi, Masamichi; Osaka, Yukio; Ae, Tadashi; Ichikawa, Tadao; Yoshida, Noriyoshi; and Suemune, Ikuo, to Hiroshima University. Three-dimensional integrated circuit with optically coupled shared memories. 4,672,577, 6-9-87, Cl. 365-114.000.

Hirose, Masatata: *See*—
- Hirose, Masataka; Ueno, Tsuyoshi; and Suzuki, Katsumi, 4,633,809, Cl. 118-719.000.

Hirose, Masayuki: *See*—
- Hata, Ryosuke; Yamanouchi, Shosuke; Hirose, Masayuki; Kuwabara, Hidemitsu; Mizumoto, Yasuharu; and Hagiuda, Yasuhiro, 4,673,607, Cl. 428-172.000.
- Hata, Ryosuke; Yamanouchi, Shosuke; Hirose, Masayuki; Yoshii, Toshiya; Tsunashima, Kenji; and Horiuchi, Satoshi, 4,675,470, Cl. 174-25.00R.
- Komiya, Yutaka; Nakamura, Shinichi; Miyata, Masanori; Hirose, Masayuki; and Mori, Toshihiko, 4,647,188, Cl. 355-55.000.
- Komiya, Yutaka; Tomosada, Masahiro; Nakamura, Shinichi; Miyata, Masanori; Hirose, Masayuki; and Adachi, Hideki, 4,697,916, Cl. 355-14.00E.
- Miyata, Masanori; Komiya, Yutaka; Nakamura, Shinichi; Hirose, Masayuki; Adachi, Hideki; and Tomosada, Masahiro, 4,641,954, Cl. 355-14.00R.
- Nakayama, Tomobumi; Mori, Toshihiko; Hirose, Masayuki; Ohbuchi, Toru; Miyata, Masanori; Nakamura, Shinichi; and Honjo, Takeshi, 4,712,908, Cl. 355-14.0SH.

Hirose, Michio: *See*—
- Shirai, Hideaki; Chiba, Kimio; Okawa, Koji; Ishibashi, Hiroshi; Ishii, Akihiro; Itoh, Hirotaka; Kuzushita, Hirokazu; Yoshioka, Michihiko; and Hirose, Michio, 4,695,515, Cl. 428-458.000.

Hirose, Mitsumasa: *See*—
- Yagishita, Koichi; Iriyama, Yasunori; and Hirose, Mitsumasa, 4,686,043, Cl. 210-387.000.

Hirose, Naohiro: *See*—
- Kinoshita, Akira; Watanabe, Kazumasa; Yamazaki, Hiroshi; and Hirose, Naohiro, 4,692,393, Cl. 430-59.000.
- Watanabe, Kazumasa; Ikeuchi, Satoru; Sasaki, Osamu; and Hirose, Naohiro, 4,647,520, Cl. 430-58.000.

Hirose, Naoya: *See*—
- Sugiura, Susumu; Sugino, Takashi; and Hirose, Naoya, 4,679,074, Cl. 358-80.000.

Hirose, Noboru: *See*—
- Watanabe, Kikuo; Kobayashi, Mitsuo; Hirose, Noboru; and Sato, Keiichi, 4,679,296, Cl. 29-568.000.

Hirose, Ryusho, to Canon Kabushiki Kaisha. Reflection and refraction optical system. 4,685,777, 8-11-87, Cl. 350-505.000.

Hirose, Ryusho; and Suzuki, Akiyoshi, to Canon Kabushiki Kaisha. Reflecting optical system. 4,688,904, 8-25-87, Cl. 350-443.000.

Hirose, Ryusho, to Canon Kabushiki Kaisha. Reflection optical system. 4,701,035, 10-20-87, Cl. 350-505.000.

Hirose, Sachio; Homma, Tammotsu; Kurihara, Takashi; Adachi, Hidenari; Sako, Yoshitaka; and Shibata, Makiko, to Mitsubishi Petrochemical Co., Ltd.; Mitsubishi Chemical Industries, Ltd.; and Sanyo Fine Co., Ltd. Novel polypeptide and process for producing the same. 4,703,106, 10-27-87, Cl. 530-307.000.

Hirose, Sumio; Naruse, Isao; and Matsuyama, Akio, to Mitsui Toatsu Chemicals, Incorporated. Radiation-curable coating composition. 4,694,052, 9-15-87, Cl. 525-454.000.

Hirose, Sumio: *See*—
- Ozawa, Hiroshi; Hosono, Yoichi; Hirose, Sumio; Sasagawa, Katsuyoshi; and Imai, Masao, 4,707,430, Cl. 430-270.000.

Hirose, Tadashi; Sakoda, Kousuke; Kojima, Tomihiko; Akita, Hidehiko; and Miyairi, Tsutomu, to Hitachi, Ltd. Computer system. 4,665,478, 5-12-87, Cl. 364-200.000.

Hirose, Takao; and Kumekawa, Norio, to Daiichi Denshi Kogyo Kabushiki Kaisha. Ferrule holding device for optical fiber connector. 4,690,494, 9-1-87, Cl. 350-96.200.

Hirose, Takao: *See*—
- Uemura, Seiichi; Hirose, Takao; Sohda, Yoshio; Sakamoto, Takayoshi; and Katoh, Kenji, 4,656,022, Cl. 423-447.200.

Hirose, Takeo; and Nozue, Takuji, to Suzuki Motor Company Limi Saddle type wheeled vehicle for off-road service. 4,650,210, 3-17 Cl. 280-690.000.

Hirose, Takeo; Tsutsumikoshi, Shinobu; and Machii, Tomom Suzuki Motor Company Limited. Endless articulated steel ba vehicle for off-road services. 4,699,229, 10-13-87, Cl. 180-9.210.

Hirose, Teruo: *See*—
- Yamaguchi, Kimiaki; Nitta, Masahiro; Inoue, Kazuyuki; Hirose Teruo; and Toda, Yoshihiro, 4,659,891, Cl. 219-10.55D.

Hirose, Tokuzo. Vehicle body cover. 4,635,996, 1-13-87, C 296-136.000.

Hirose, Tokuzo; and Inoue, Ikuo, to Hirose Manufacturing Compan Ltd. Electromagnet and electromagnetic valve coil assembli 4,641,118, 2-3-87, Cl. 335-282.000.

Hirose, Tokuzo, to Hirose Manufacturing Company Limited. Fu rotating hook for a lock stitch sewing machine. 4,671,196, 6-9-87, C 112-228.000.

Hirose, Tokuzo. Rotary looptaker and bobbin case with magne repulsive force therebetween. 4,676,178, 6-30-87, Cl. 112-231.00

Hirose, Tokuzo, to Hirose Manufacturing Company, Limited. Devic for detecting the residual amount of bobbin thread in a lock stitc sewing machine. 4,691,648, 9-8-87, Cl. 112-121.110.

Hirose, Tokuzo; and Shimizu, Hiromitsu, to Hirose Manufacturin Company, Ltd. Rotary hook. 4,700,643, 10-20-87, Cl. 112-231.00

Hirose, Toshifumi; and Isayama, Katsuhiko, to Kanegafuchi Kagak Kogyo Kabushiki Kaisha. Pressure sensitive adhesive compositi 4,665,127, 5-12-87, Cl. 525-100.000.

Hirose, Toshifumi: *See*—
- Isayama, Katsuhiko; Hirose, Toshifumi; Iwahara, Takahisa; an Kawakubo, Fumio, 4,657,986, Cl. 525-407.000.
- Sasaki, Makoto; Yamakawa, Masaki; Hirose, Toshifumi; an Isayama, Katsuhiko, 4,707,526, Cl. 525-404.000.

Hirose, Toshiro: *See*—
- Uramoto, Yoshihito; Kaneko, Takasi; and Hirose, To 4,642,011, Cl. 411-258.000.

Hirose, Tsuguhiro: *See*—
- Kobayashi, Hiroshi; Haruyama, Hideaki; and Hirose, Tsuguhir 4,661,950, Cl. 370-85.000.
- Kobayashi, Hiroshi; Haruyama, Hideaki; and Hirose, Tsuguhir 4,694,453, Cl. 370-85.000.

Hirose, Yasuyuki: *See*—
- Shigenai, Osamu; Saito, Yukio; Gunji, Kunihiko; Shimaok Motohiro; Hirose, Yasuyuki; and Okita, Masao, 4,672,490, C 360-105.000.

Hirose, Yoshiteru: *See*—
- Yokozeki, Kenzo; Majima, Eiji; Hirose, Yoshiteru; Sato, Takeru and Yukawa, Toshihide, 4,666,838, Cl. 435-70.000.

Hiroshi, Ito: *See*—
- Hitoshi, Yamazaki; Takao, Takeda; Shizuo, Nakano; Kouji, Yamamoto; Hiroshi, Ito; and Jun, Imai, 4,659,962, Cl. 313-493.000.
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- Takizawa, Shozo; Tatemoto, Minoru; Furumura, Akio; Sugawara, Tadashi; Kariya, Shigeo; and Hiroshima, Kazuo, 4,685,689, Cl. 280-707.000.
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- Sekino, Mituru; Hiroshima, Minoru; and Yanai, Masahiro, 4,689,769, Cl. 365-15.000.

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- Kasahara, Shuhei; and Hiroshima, Mochisuke, 4,705,390, Cl. 355-52.000.

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- Satoh, Ryohei; Oshima, Muneo; Tanaka, Minoru; Sakaguchi, Suguru; Murata, Akira; and Hirota, Kazuo, 4,673,772, Cl. 174-52.0FP.
- Shimohira, Shigeru; Kimoto, Yasuyuki; and Hirota, Kazuo, 4,685,622, Cl. 239-346.000.

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Hirota, Masatoshi: *See*—
- Tanabe, Minoru; and Hirota, Masatoshi, 4,668,963, Cl. 346-139.00C.

Hirota, Mitsuhiko: *See*—
- Fujioka, Yoshiki; and Hirota, Mitsuhiko, 4,641,069, Cl. 318-625.000.

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- Oguri, Hitoshi; and Hirota, Motoya, 4,634,492, Cl. 156-605.000.

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Hirota, Tetsuro, to Ricoh Company, Ltd. Ink jet printer. 4,644,372, 2-17-87, Cl. 346-138.000.

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Hirotomi, Hajime: *See*—
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Hiroyasu, Fujikawa, to Kanda Tekko Kabushiki Kaisha. Transfer system for vehicles. 4,704,917, 11-10-87, Cl. 74-475.000.

Hiroyasu Funakubo & Sumitomo Elec. Ind., Ltd.: *See*—
- Sekiguchi, Yukio; Funakubo, Hiroyasu; Sakanoue, Hitoyuki; and Komura, Osamu, 4,709,844, Cl. 228-3.100.

Hiroyasu, Mamoru, to Matsushita Electric Industrial Co., Ltd. Monitoring apparatus. 4,665,430, 5-12-87, Cl. 358-108.000.

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Hiroyuki, Furuhashi; Yamamoto, Tadashi; Imai, Masafumi; and Ueno, Hiroshi, to Toa Nenryo Kogyo Kabushiki Kaisha. Production of catalyst component for olefin polymerization. 4,693,990, 9-15-87, Cl. 502-116.000.

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Hirozawa, Kunikazu: *See*—
- Hayashi, Ken-ichi; Hirozawa, Kunikazu; and Kotaki, Masahiro, 4,646,208, Cl. 362-80.000.

Hirs, Gene. Disposable liner for paint booth grating. 4,673,425, 6-16-87, Cl. 55-435.000.

Hirs, Henri G. J.: *See*—
- Verweij, Jan; Grootveld, Herman H.; Hirs, Henri G. J.; Van Veen, Gerardus J.; Kalter, Jan; and Henniger, Peter W., 4,695,627, Cl. 540-224.000.

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- Nguyen, Tuan; Hirsbrunner, Pierre; and Weymuth, Hans, 4,636,399, Cl. 426-629.000.

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Hirsch, Gerald B.; Volk, Stanley; Cirrito, William; and Brann, Dale, to Solarcraft, Inc. Solar powered headwear fan. 4,680,815, 7-21-87, Cl. 2-171.300.

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- Schmidt, Hans-Werner; Koch, Walter; Hirsch, Martin; Rosenthal, Karlheinz; and Yetmen, Yilmaz, 4,643,885, Cl. 423-119.000.
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- Reinehr, Ulrich; Hirsch, Rolf-Burkhard; Dross, Joachim; and Jungverdorben, Hermann-Josef, 4,714,045, Cl. 118-420.000.

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- Villalobos, Luis; Hirsch, Steven B.; Hauser, Steven G.; and von Buelow, John, 4,644,326, Cl. 340-365.00R.

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- Junemann, Gitta; Hirsch, Werner; and Weiss, Arno, 4,709,709, Cl. 131-306.000.

Hirschel, Ernst H., to Messerschmitt-Bolkow-Blohm GmbH. Tail end structure for an aircraft fuselage. 4,712,751, 12-15-87, Cl. 244-119.000.

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Hirschfeld, Tomas B., to United States of America, Air Force. Precision guided antiaircraft munition. 4,678,142, 7-7-87, Cl. 244-3.160.

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- Block, Myron J.; and Hirschfeld, Tomas B., 4,716,121, Cl. 436-514.000.
- Miller, Holly; Milanovich, Fred P.; Hirschfeld, Tomas B.; and Miller, Fred S., 4,666,672, Cl. 422-68.000.

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Hirschkoff, Richard. Ski carrier. 4,676,417, 6-30-87, Cl. 224-202.000.

Hirschmanner, Franz: *See*—
- Buchegger, Rudolf; Hirschmanner, Franz; and Heyer, Peter, 4,703,640, Cl. 72-128.000.

Hirschon, Albert S.: *See*—
- Laine, Richard M.; Hirschon, Albert S.; and Wilson, Robert B., Jr., 4,716,142, Cl. 502-220.000.

Hirsh Company: *See*—
- Handler, Milton E.; Sylvan, Richard; and Peterson, Michael, 4,682,698, Cl. 211-70.600.
- Handler, Milton E.; Sylvan, Richard; and Peterson, Michael, 4,699,343, Cl. 248-157.000.
- Handler, Milton E.; and Baisch, Herbert, 4,711,183, Cl. 108-111.000.

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- Gelo, Mark A.; Hirshberg, Moshe J.; and Goldring, Lionel S., 4,661,236, Cl. 204-420.000.
- Gelo, Mark A.; and Hirshberg, Moshe J., 4,687,500, Cl. 65-36.000.

Hirsius, John L.: *See*—
- Green, Carlos J.; Hirsius, John L.; and Book, Marshall K., 4,677,970, Cl. 128-82.100.

- Hirt, Adam: *See*—
  - Gademann, Lothar; Hirt, Adam; Michel, Hartmut; Schmid, Hans-Dieter; and Schneider, Michael, 4,694,814, Cl. 123-644.000.
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  - Hirt, John H., 4,680,004, Cl. 431-5.000.
- Hirt, John H., to Hirt Combustion Engineers. Method and apparatus for controlling gasoline vapor emissions. 4,680,004, 7-14-87, Cl. 431-5.000.
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  - Giles, Harold F., Jr.; and Hirt, Robert P., Jr., 4,657,972, Cl. 525-57.000.
- Hirt, Theodore A.; and Holmstrom, James R. Method and apparatus for energizing metallic strip for plating. 4,662,997, 5-5-87, Cl. 204-28.000.
- Hirt, Walter, to Emhart Industries, Inc. Parison transferring mechanism. 4,652,291, 3-24-87, Cl. 65-68.000.
- Hirt, Walter, to Emhart Industries, Inc. Take-out mechanism for a glassware forming machine. 4,698,087, 10-6-87, Cl. 65-172.000.
- Hirt, Walter, to Emhart Industries, Inc. Supporting means for a baffle of a glassware forming machine. 4,704,154, 11-3-87, Cl. 65-233.000.
- Hirth, Antoine; and Schetter, Klaus-Herbert, to Institut Franco-Allemand de Recherches de Saint-Louis. Metal vapor laser tube. 4,694,463, 9-15-87, Cl. 372-61.000.
- Hirth, Antoine; and Simon, Antoine, to Institut Franco-Allemand de Recherches de Saint-Louis. Power supply unit for a laser tube. 4,698,819, 10-6-87, Cl. 372-38.000.
- Hirth, Michael, to BBC Brown, Boveri & Company, Limited. Ozone generator. 4,690,803, 9-1-87, Cl. 422-186.180.
- Hirth, Michael: *See*—
  - Beer, Hans-Rudolf; Britsch, Helmut; Hirth, Michael; Kaiser, Tony; and Kogelschatz, Ulrich, 4,650,648, Cl. 422-186.0
  - Gloor, Urs; Hirth, Michael; and Kogelschatz, Ulrich, 4,654,199, Cl. 422-186.190.
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  - Yokokawa, Toshio; and Hirukawa, Yohichi, 4,704,199, Cl. 204-298.000.
- Hiruta, Hideshi: *See*—
  - Watanabe, Kenichi; Hiruta, Hideshi; and Hiketa, Manabu, 4,709,775, Cl. 180-233.000.
- Hiruta, Yoichi, to Kabushiki Kaisha Toshiba. Manufacturing MOS semiconductor device with planarized conductive layer. 4,713,356, 12-15-87, Cl. 437-41.000.
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- Hirzel, Timothy K.: *See*—
  - Taylor, Keith M.; Horng, Liou-Liang; and Hirzel, Timothy K., 4,680,145, Cl. 260-502.00R.
- HIS, Inc.: *See*—
  - DeYoe, Jay, 4,693,691, Cl. 441-129.000.
- Hisabayashi, Satoshi: *See*—
  - Kai, Masanori; Hisabayashi, Satoshi; Homma, Seichi; and Igarashi, Yousuke, 4,653,008, Cl. 364-471.000.
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  - Shigemura, Yutaka; Kimura, Hiroshi; Hisajima, Masahiko; Yada, Isao; Satonaka, Shinobu; and Kaminaga, Seiji, 4,642,448, Cl. 219-216.000.
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- Hisaka, Tsugio: *See*—
  - Kanno, Haruki; Tsuyoshi, Hidekazu; Nishinakagawa, Kou; Hara, Makoto; Mochida, Tetsuo; Hisaka, Tsugio; Miyaki, Munekazu; Kawarada, Minoru; and Kawarabayashi, Hideaki, 4,643,617, Cl. 405-222.000.
- Hisaki, Masakatu: *See*—
  - Fujimura, Hajime; Hiramatu, Yasuzo; Yabuuchi, Takahiro; Hisaki, Masakatu; Takikawa, Katsuo; Honna, Takaji; Miyake, Hidekazu; and Kajitani, Makoto, 4,666,911, Cl. 514-255.000.
- Hisamatsu, Kenichi: *See*—
  - Nishi, Toshiro; Murakami, Nobuaki; Ueda, Kenji; Shirakawa, Seiichi; Notomi, Akira; Hisamatsu, Kenichi; and Kaneko, Shozo, 4,686,158, Cl. 429-26.000.
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- Hisano, Atsushi: *See*—
  - Saka, Kazuhiko; Hisano, Atsushi; Kato, Michitaka; Masaki, T shimichi; and Nakatsuka, Nobuo, 4,703,512, Cl. 382-22.00
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- Hisano, Junichi: *See*—
  - Umemura, Masashi; Konishi, Masanori; Fukushima, Atsu Hisano, Junichi; and Okamoto, Toshiaki, 4,692,256, Cl. 2 32.70E.
- Hisano, Katsukuni: *See*—
  - Iizuka, Nobuyuki; Hisano, Katsukuni; Wada, Katsuo; Kura Masashi; Hirose, Fumiyuki; Ishibashi, Yoji; Sato, Isao; A Osamu; Inose, Hiroshi; and Sakuda, Osamu, 4,677,822, C 60-39.230.
  - Iizuka, Nobuyuki; Hisano, Katsukuni; Oshima, Ryoichiro; Wa Katsuo; Hirose, Fumiyuki; Kuroda, Michiro; Uchiyama, T shihiro; Ishibashi, Yoji; Sato, Isao; and Inose, Hiroshi, 4,6817 Cl. 60-39.060.
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- Hisaoka, Satoshi: *See*—
  - Matsuzaka, Takashi; Saito, Toshihiko; and Hisaoka, Sato 4,687,435, Cl. 431-1.000.
- Hisatake, Masayuki: *See*—
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- Hisatake, Michio: *See*—
  - Eguchi, Yasukata; Hara, Kazumasa; and Hisatake, Mich 4,690,082, Cl. 112-254.000.
- Hisatsune, Fumiyuki: *See*—
  - Murata, Shiro; and Hisatsune, Fumiyuki, 4,689,58 C 335-201.000.
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  - Miyashita, Hiroichi; Nakazawa, Hajime; and Hisatsune, Masayuk 4,663,279, Cl. 423-25.000.
- Hisazumi, Haruo; and Miyoshi, Norio, to Olympus Optical Co. Lt Laser probe. 4,676,231, 6-30-87, Cl. 128-6.000.
- Hischke, Marcia, to Uniforms To You & Company. Multi-size jump dress. 4,679,256, 7-14-87, Cl. 2-105.000.
- Hiscock, Christopher J.: *See*—
  - Chin, Laurence D.; Hiscock, Christopher J.; and Domeier, Way H., 4,714,865, Cl. 318-563.000.
- Hiscock, David G.: *See*—
  - Harper, Stephen; and Hiscock, David G., 4,637,860, C 162-117.000.
- Hiscock, Willis E.; Cassidy, Robert T.; and Werner, Robert G., Union Carbide Corporation. Pressure swing adsorption proce 4,650,501, 3-17-87, Cl. 55-26.000.
- Hiscox, Martyn: *See*—
  - Croft, George; and Hiscox, Martyn, 4,707,010, Cl. 297-379.000.
- Hise, Mason R.; and Hise, Neil R. Impact crusher [illegible]tating impelle table. 4,690,341, 9-1-87, Cl. 241-275.000.
- Hise, Neil R.: *See*—
  - Hise, Mason R.; and Hise, Neil R., 4,690,341, Cl. 241-275.000.
- Hisey, Durward A., to Hy-C Company, Inc. Adjustable chimney ca support. 4,697,500, 10-6-87, Cl. 98-67.000.
- Hishi, Yuichi, to Alps Electric Co., Ltd. Magnetic head. 4,710,83 12-1-87, Cl. 360-106.000.
- Hishi, Yuichi: *See*—
  - Fuke, Takamichi; Aikawa, Chiaki; Watanabe, Takashi; and Hish Yuichi, 4,700,251, Cl. 360-106.000.
- Hishiki, Hideo; and Onodera, Shunji, to Victor Company of Japan, Lt High voltage DC generator with reduced ringing and voltage fluct ation. 4,635,176, 1-6-87, Cl. 363-21.000.
- Hishiki, Hideo: *See*—
  - Kobayashi, Toshio; and Hishiki, Hideo, 4,642,528, Cl. 315-368.00
- Hishinuma, Kazuhiro; and Ohga, Akihiro, to Fuji Photo Film Co., Lt Subtraction processing method and apparatus for radiation image 4,683,377, 7-28-87, Cl. 250-327.200.
- Hishinuma, Kazuhiro: *See*—
  - Kimura, Tsutomu; Fuseda, Yuichi; and Hishinuma, Kazuhiro 4,700,299, Cl. 364-414.000.
  - Nakajima, Nobuyoshi; and Hishinuma, Kazuhiro, 4,710,875, Cl 364-414.000.

- Shiraishi, Hisashi; Kimura, Tsutomu; and Hishinuma, Kazuhiro, 4,665,312, Cl. 250-303.000.

Hishinuma, Osamu; Masuda, Akira; Ohmori, Toshihiko; Miyaki, Masahiko; and Takemoto, Eiji, to Nippondenso Co., Ltd. Fuel injection pump. 4,671,239, 6-9-87, Cl. 123-458.000.

Hishinuma, Toru: *See—*
- Toyoda, Kenji; and Hishinuma, Toru, 4,701,804, Cl. 358-280.000.

Hishinuma, Yukio: *See—*
- Sohma, Ken-ichi; Arashi, Norio; Azuhata, Shigeru; Narato, Kiyoshi; Inada, Tooru; Kobayashi, Hironobu; Ohtsuka, Keizou; and Hishinuma, Yukio, 4,653,998, Cl. 431-79.000.

Hisle, Ralph E.: *See—*
- Leary, Sharon M.; Steward, John C.; Commisso, Nicholas D.; De Cook, Edwin R.; Hisle, Ralph E.; and Rowe, Donald, 4,653,685, Cl. 229-2.50R.

Hissong, George: *See—*
- Tripp, Edwin P., III; Weisman, Jason; and Hissong, George, 4,642,244, Cl. 427-44.000.

Hitachi Automotive Engineering Co., Ltd.: *See—*
- Fujitsugu, Yutaka; Ito, Tomoo; and Uchida, Tadao, 4,669,504, Cl. 137-625.650.
- Ito, Hiroshi; and Kugo, Masaru, 4,653,863, Cl. 350-339.00F.
- Ito, Hiroshi; and Kugo, Masaru, 4,664,481, Cl. 350-345.000.
- Ito, Hiroshi; Kugo, Masaru; and Watanate, Sizuhisa, 4,697,886, Cl. 350-336.000.
- Itsuji, Takayuki; and Ueno, Sadayasu, 4,676,213, Cl. 123-440.000.
- Koike, Hiroshi; Katada, Hiroshi; and Yoneda, Hiroshi, 4,715,353, Cl. 123-590.000.
- Kugo, Masaru; Igarashi, Osamu; Katogi, Kozo; Ito, Hiroshi; and Nakamura, Mamoru, 4,673,252, Cl. 350 V-339.00F.
- Takahashi, Yukio; Hayase, Isao; Amano, Keijirou; Mizukami, Masao; and Ishiguri, Masaaki, 4,711,620, Cl. 418-96.000.

Hitachi Cable, Ltd.: *See—*
- Ito, Motoya; Takahashi, Noriyoshi; Watanabe, Masatoshi; Abukawa, Toshimi; Seya, Takeshi; Kainuma, Hiroshi; and Syutoo, Toshiyuki, 4,704,789, Cl. 29-609.000.
- Kuwahara, Heikichi; Takahashi, Kenji; Yanagida, Takehiko; Nakayama, Wataru; Sugimoto, Shigeo; Nakayama, Yoshihiko; Yoshida, Hiromichi; Oizumi, Kiyoshi; Sasaki, Toshi; and Fukuda, Shigeho, 4,653,163, Cl. 29-157.30R.
- Kuwahara, Heikichi; Takahashi, Kenji; Yanagida, Takehiko; Nakayama, Wataru; Sugimoto, Shigeo; and Oizumi, Kiyoshi, 4,690,211, Cl. 165-177.000.
- Okamoto, Kunihiko, 4,701,730, Cl. 333-237.000.
- Ouchi, Yutaka; Sugino, Akio; Sugaya, Kazuo; and Kimizima, Kazuo, 4,668,288, Cl. 75-93.00R.
- Ouchi, Yutaka; Sugino, Akio; Sugaya, Kazuo; and Kimizima, Kazuo, 4,714,104, Cl. 164-504.000.
- Sasaki, Toshi; Yoshida, Hiromichi; Fukuda, Shigeho; Oizumi, Kiyoshi; Kakizaki, Kimio; Nakayama, Wataru; Daikoku, Takahiro; Nakajima, Tadakatsu; and Nakayama, Yoshihiko, 4,678,029, Cl. 165-133.000.
- Shinohara, Yoshihiro; Oizumi, Kiyoshi; Itoh, Yasuhiko; and Hori, Makoto, 4,658,892, Cl. 165-133.000.
- Takahashi, Kenji; Kuwahara, Heikichi; Yanagida, Takehiko; Nakayama, Wataru; Oizumi, Kiyoshi; and Sugimoto, Shigeo, 4,715,436, Cl. 165-133.000.
- Tanioka, Norio; Kimura, Hisayoshi; and Suzuki, Isamu, 4,674,719, Cl. 248-56.000.
- Ui, Masahito; Akiyama, Hideo; Todokoro, Akio; Natsui, Yukio; Kogure, Hiroshi; Kato, Yujiro; and Ozaki, Tsuneo, 4,667,400, Cl. 29-825.000.
- Ui, Masahito; Akiyama, Hideo; Todokoro, Akio; Natsui, Yukio; Kogure, Hiroshi; Kato, Yujiro; and Ozaki, Tsuneo, 4,686,328, Cl. 174-153.00R.

Hitachi Carbide Tools Ltd.: *See—*
- Funakawa, Naoyoshi; Demura, Hajime; and Nagamori, Nobuyuki, 4,684,297, Cl. 407-41.000.

Hitachi Chemical Company, Ltd.: *See—*
- Fujioka, Atsushi; Miyadera, Yasuo; and Fukuda, Tomio, 4,707,316, Cl. 264-135.000.
- Fujita, Koei; and Aimono, Yuji, 4,663,190, Cl. 427-82.000.
- Hasegawa, Hiroshi; and Inoue, Mitsuhiro, 4,713,284, Cl. 428-246.000.
- Inoue, Shohei; and Aida, Takuzo, 4,665,134, Cl. 525-419.000.
- Ishii, Mitsuru; Akiyama, Seikichi; and Ishibashi, Hiroyuki, 4,687,683, Cl. 427-160.000.
- Koibuchi, Shigeru; Isobe, Asao; and Makino, Daisuke, 4,698,291, Cl. 430-196.000.
- Kumagai, Yuugo; Moribe, Isamu; Saito, Takayuki; Fujita, Toshiyuki; and Kobayashi, Akihiro, 4,686,166, Cl. 430-109.000.
- Makino, Daisuke; Sato, Hidetaka; Suzuki, Hiroshi; Uchimura, Shun-ichiro; and Suzuki, Hiroshi, 4,645,688, Cl. 427-82.000.
- Nakada, Takao, 4,690,911, Cl. 501-105.000.
- Nakaso, Akishi; Kaneko, Youichi; Okamura, Toshiro; and Yamanoi, Kiyoshi, 4,643,793, Cl. 156-306.600.
- Numata, Shun-ichi; Fujisaki, Koji; Kinjo, Noriyuki; Imaizumi, Junichi; and Mikami, Yoshikatsu, 4,690,999, Cl. 528-188.000.
- Ohta, Tomohisa; Dobashi, Akihiko; Kanbara, Hisashige; and Seki, Yasuyuki, 4,659,788, Cl. 525-518.000.
- Ohta, Tomohisa; Dobashi, Akihiko; Kanbara, Hisashige; and Seki, Yasuyuki, 4,665,106, Cl. 522-49.000.
- Tachiki, Shigeo; Shibuya, Ikutoshi; Fujikura, Makoto; and Kakuta, Atsushi, 4,657,834, Cl. 430-58.000.
- Takagi, Kazumasa; and Fukazawa, Tokuumi, 4,647,781, Cl. 250-483.100.

Hitachi Computer Engineering Co., Ltd.: *See—*
- Hirai, Masato; Kurata, Masami; and Yoshino, Ryozo, 4,697,047, Cl. 178-2.00C.

Hitachi Construction Machinery Co.: *See—*
- Ogura, Yukio; and Nasu, Seiji, 4,695,833, Cl. 340-722.000.

Hitachi Construction Machinery Co., Ltd.: *See—*
- Hatamura, Yotaro; Ono, Kozo; Takada, Ryuji; and Kusaki, Takami, 4,674,339, Cl. 73-862.040.
- Hatamura, Yotaro; and Ono, Kozo, 4,686,440, Cl. 318-646.000.
- Miyajima, Takeshi, 4,694,698, Cl. 73-570.000.
- Nagao, Takaaki; Hatamura, Yotaro; and Ono, Kozo, 4,666,352, Cl. 409-153.000.
- Okabe, Nobuya; Hirata, Toichi; Yoshida, Kuniaki; Sugiyama, Genroku; Haga, Masakazu; Tanaka, Hideaki; and Tatsumi, Akira, 4,697,418, Cl. 60-434.000.
- Tanaka, Hideaki, 4,644,849, Cl. 91-445.000.
- Tokairin, Hiroaki; Honma, Kazuo; Nakajima, Kichio; Nagasawa, Kiyoshi; and Aritake, Takeshi, 4,710,884, Cl. 364-513.000.
- Yoshida, Kunihiko; Koshi, Kenichi; and Ichiki, Nobuhiko, 4,706,932, Cl. 251-31.000.
- Yoshida, Shoji; Haru, Yasuhiko; Kosaka, Etsuji; Ikeda, Toshimichi; Aoyama, Mikio; and Iida, Takeo, 4,691,788, Cl. 175-62.000.

Hitachi Control Systems, Inc.: *See—*
- Takaki, Masaoki, 4,683,549, Cl. 364-900.000.

Hitachi Denshi Kabushiki Kaisha: *See—*
- Aoki, Akira; and Ukigaya, Fumio, 4,692,804, Cl. 358-163.000.
- Doi, Nobukazu; Izumita, Morishi; Mita, Seiichi; Eto, Yoshizumi; and Rokuda, Morito, 4,653,052, Cl. 371-39.000.
- Eto, Yoshizumi, 4,652,942, Cl. 360-32.000.
- Eto, Yoshizumi; Umemoto, Masuo; Kanada, Hidehiro; and Mita, Seiichi, 4,698,811, Cl. 371-38.000.
- Izumita, Morishi; Mita, Seiichi; Umemoto, Masuo; Kanada, Hidehiro; and Rokuda, Morito, 4,661,956, Cl. 371-38.000.
- Kodama, Takuma; Takahashi, Kenji; Ishibashi, Shizuka; Kudo, Koji; Masuda, Yukihiro; Hombough, Masanori; Miyoshi, Osamu; and Yoshiwara, Kazuhisa, 4,649,421, Cl. 358-51.000.
- Maruyama, Masanori; Takahashi, Kenji; Kudo, Koji; Hombaugh, Masanori; and Nagahara, Shusaku, 4,716,468, Cl. 358-219.000.
- Masuda, Yukihiro; Ishibashi, Shizuka; Takahashi, Kenji; Kodama, Takuma; Kudo, Koji; and Hombough, Masanori, 4,647,822, Cl. 315-386.000.
- Oku, Kentaro; and Fukushima, Masakazu, 4,663,560, Cl. 313-390.000.
- Oku, Kentaro; Fukushima, Masakazu; Suzuki, Hitomi; and Maruyama, Masanori, 4,701,668, Cl. 315-17.000.
- Umemoto, Masuo; Eto, Yoshizumi; Kanada, Hidehiro; and Rokuda, Morito, 4,700,240, Cl. 360-48.000.
- Umenoto, Masuo; Mita, Seiichi; Izumita, Morishi; Michikawa, Yuuichi; Rokuda, Morito; Katayama, Hitoshi; and Kanada, Hidehiro, 4,670,797, Cl. 358-310.000.
- Yoshimura, Yasuo; Yamauchi, Kunio; and Saito, Kenji, 4,638,366, Cl. 358-228.000.

Hitachi Device Engineering Co., Ltd.: *See—*
- Matsuyama, Shigeru; Kanazaki, Mikio; Aoki, Norio; and Ishii, Akira, 4,709,993, Cl. 350-339.00F.
- Shirai, Shoji; Noda, Fumio; Iidaka, Yoshiaki; Yamauchi, Masaaki; and Fukushima, Masakazu, 4,672,261, Cl. 313-414.000.

Hitachi Electronics Engineering Co., Ltd.: *See—*
- Saito, Susumu; Suzuki, Michio; Suda, Kyo; Yatsugake, Yasuo; and Tsukada, Kazuya, 4,685,802, Cl. 356-339.000.
- Saitoh, Takashi; Niizaki, Nobuya; Yamamura, Hideho; and Hayashi, Shinichi, 4,710,654, Cl. 307-601.000.
- Takahashi, Hatsuo; and Hibino, Junichi, 4,658,313, Cl. 360-98.000.

Hitachi Elevator Engineering & Service Co., Ltd.: *See—*
- Onoda, Yoshimitsu; Yamakoshi, Takato; and Arakawa, Shigeru, 4,649,751, Cl. 73-658.000.

Hitachi Elevator Engineering & Service Ltd.: *See—*
- Nakazawa, Hayashi; Nakao, Shouichi; Saito, Cyuichi; and Kawagoshi, Makoto, 4,674,619, Cl. 198-331.000.

Hitachi Engineering Co., Ltd.: *See—*
- Ishikawa, Toshimitsu; Ozawa, Mishihiro; Sakurai, Mikio; Konno, Mutsuo; Aizawa, Yasuhiro; Igarashi, Takao; and Hirakawa, Hiromasa, 4,686,079, Cl. 376-444.000.
- Ishimaru, Hitoshi; and Kobayashi, Toshiki, 4,713,209, Cl. 376-211.000.
- Kobayashi, Takao; Abe, Shigeo; Bandoh, Tadaaki; Takatoo, Masao; Matsumoto, Hidekazu; and Hara, Hideyuki, 4,644,490, Cl. 364-748.000.
- Kuboki, Shigeo; Masuda, Ikuro; Masuda, Toshiaki; and Hayashi, Terumine, 4,701,922, Cl. 371-25.000.
- Kurosawa, Toshiaki; Shima, Seiya; Ando, Takeki; Inaba, Hiromi; Nakashima, Hajime; and Mine, Toshisuke, 4,636,932, Cl. 363-54.000.
- Mochida, Takaaki; Yamashita, Junichi; Yoshioka, Toshiro; and Ozawa, Michihiro, 4,683,113, Cl. 376-419.000.
- Ogura, Yukio; and Nasu, Seiji, 4,695,833, Cl. 340-722.000.
- Sugano, Akira; and Yamanobe, Sachio, 4,653,276, Cl. 60-665.000.
- Toriyama, Minoru; Kunisada, Hideaki; and Sato, Katsuo, 4,672,524, Cl. 363-56.000.

Hitachi Engineering and Service Co., Ltd.: *See—*
- Onoda, Yoshimitsu; and Goko, Hiroshi, 4,690,251, Cl. 187-107.000.

Hitachi Haramachi Semi-Conductor Ltd.: *See—*
- Miyakawa, Nobuaki; Yazawa, Yoshiaki; Ozeki, Shoichi; and Mitsumoto, Kinya, 4,665,505, Cl. 365-177.000.

- Hitachi Heating Appliances Co., Ltd.: *See—*
  - Takahashi, Mutsuhiko; Tadokoro, Minoru; and Matsuzaki, Hiroshi, 4,664,095, Cl. 126-96.000.
- Hitachi Iruma Electronic Co., Ltd.: *See—*
  - Ishii, Satoru; Nemoto, Tugio; and Aiki, Kunio, 4,702,556, Cl. 350-320.000.
- Hitachi Keiyo Engineering Co., Ltd.: *See—*
  - Ibori, Satoshi; Shimotu, Tadao; and Yabu, Masatomo, 4,689,542, Cl. 318-778.000.
  - Ninomiya, Hisakazu; Tomita, Hiroyuki; Mochizuki, Jyun; and Nakagawa, Kazuyuki, 4,656,401, Cl. 318-329.000.
  - Watanabe, Kenichi, 4,651,452, Cl. 356-375.000.
- Hitachi Kiden Kogyo Kabushiki Kaisha: *See—*
  - Fukuwatari, Ichiro, 4,662,282, Cl. 104-38.000.
  - Higuchi, Toshiro; Kamei, Shigeki; and Kawaguchi, Kojiro, 4,644,870, Cl. 104-292.000.
  - Watanabe, Seiji; Horimoto, Teiji; and Koizumi, Susumu, 4,714,155, Cl. 198-619.000.
- Hitachi Kiden Kogyo Kabushikikaisha: *See—*
  - Fukuwatari, Ichiro, 4,652,800, Cl. 318-135.000.
- Hitachi Koki Co., Ltd.: *See—*
  - Arimoto, Akira; Saito, Susumu; Tatsuno, Kimio; and Kataoka, Keiji, 4,644,160, Cl. 250-201.000.
  - Innami, Tatsuo; Koizumi, Katuo; Imahashi, Toshiaki; and Matsumoto, Kihachiro, 4,669,190, Cl. 30-273.000.
  - Ito, Masanori; Akiba, Seiji; and Ishikawa, Hiroyasu, 4,675,999, Cl. 30-124.000.
  - Kataoka, Keiji; and Saito, Susumu, 4,640,573, Cl. 350-6.100.
  - Koreeda, Masakuni; Nagata, Akio; and Tachihara, Sadamoto, 4,670,002, Cl. 494-10.000.
  - Kuwabara, Tadashi; Matsuda, Yasumasa; Kasahara, Masatoshi; Mukumoto, Kyoji; and Tokunaga, Kazuyoshi, 4,672,398, Cl. 346-140.00R.
  - Nishimura, Hiroshi; and Miyasaka, Masao, 4,704,963, Cl. 101-425.000.
  - Yamada, Takahiro; Namekawa, Satoshi; Yoshino, Eiji; and Matsuda, Yasumasa, 4,638,326, Cl. 346-75.000.
- Hitachi Lighting, Ltd.: *See—*
  - Nakagawa, Hisato; Kuwahara, Hideo; Koyama, Atsuo; and Akatsuka, Mitsuo, 4,694,224, Cl. 315-177.000.
- Hitachi, Ltd.: *See—*
  - Abe, Shoji, 4,651,532, Cl. 60-646.000.
  - Abukawa, Toshimi; Tahara, Kazuo; Takahashi, Noriyoshi; Tajima, Fumio; and Tomite, Tosio, 4,639,625, Cl. 310-154.000.
  - Abukawa, Toshimi; Tahara, Kazuo; Takahashi, Noriyoshi; and Tomite, Toshio, 4,703,210, Cl. 310-154.000.
  - Achiha, Masahiko; and Ishikura, Kazuo, 4,636,857, Cl. 358-140.000.
  - Achiha, Masahiko, 4,688,084, Cl. 358-36.000.
  - Agatsuma, Takashi, 4,657,630, Cl. 156-643.000.
  - Aizawa, Iwao, 4,698,601, Cl. 331-1.00A.
  - Akahoshi, Haruo; Murakami, Kanji; Wajima, Motoyo; Kogawa, Kiyonori; Toba, Ritsuji; and Shimazaki, Takeshi, 4,642,161, Cl. 156-630.000.
  - Akiba, Yutaka; and Hirota, Kazuo, 4,663,737, Cl. 365-2.000.
  - Akiba, Yutaka; Hirota, Kazuo; Kishiro, Nobuo; Futami, Toshio; and Hamamoto, Tatsuo, 4,694,423, Cl. 365-2.000.
  - Akiyama, Toshiyuki; Koike, Norio; Ito, Kenji; Ogino, Takeshi; and Nagahara, Shuusaku, 4,675,887, Cl. 377-58.000.
  - Amada, Haruo, 4,667,076, Cl. 219-10.55M.
  - Amano, Ken; and Inoue, Kotaro, 4,654,193, Cl. 376-436.000.
  - Amano, Matsuo; Shida, Masami; Sakamoto, Masahide; Hirayama, Takeshi; and Sasayama, Takao, 4,703,430, Cl. 364-431.050.
  - Amano, Naoki; Kayaba, Hitoshi; and Kikuchi, Takehiro, 4,638,403, Cl. 361-341.000.
  - Amemiya, Tsuguo; Magata, Yutaka; Fujimatsu, Satoshi; and Morita, Masahiro, 4,694,147, Cl. 235-379.000.
  - Ando, Toshinari; Takahashi, Yoshikazu; Nishi, Masataka; Shimamoto, Susumu; Aihara, Katsuzo; and Tada, Naofumi, 4,652,697, Cl. 174-128.00S.
  - Aoki, Masakazu; Nakagome, Yoshinobu; Horiguchi, Masahi; Ozaki, Toshifumi; Shimohigashi, Katsuhiro; and Ikenaga, Shinichi, 4,636,985, Cl. 365-189.000.
  - Aoki, Masakazu; Nakagome, Yoshinobu; Horiguchi, Masashi; Ikenaga, Shinichi; and Shimohigashi, Katsuhiro, 4,661,929, Cl. 365-189.000.
  - Aoki, Masakazu; Horiguchi, Masashi; Nakagome, Yoshinobu; Ikenaga, Shinichi; Shimohigashi, Katsuhiro; Masuhara, Toshiaki; Itoh, Kiyoo; Nakamura, Hideo; and Minato, Osamu, 4,701,884, Cl. 365-189.000.
  - Aoyama, Motoo; and Kurihara, Kunitoshi, 4,689,195, Cl. 376-435.000.
  - Aoyama, Motoo; Maruyama, Hiromi; Umegaki, Kikuo; and Uchikawa, Sadao, 4,695,425, Cl. 376-435.000.
  - Arai, Yoshinao; Takahashi, Shino; Oikawa, Eigo; Sato, Shigeru; and Kobayashi, Hideaki, 4,706,187, Cl. 364-191.000.
  - Arimoto, Akira; Saito, Susumu; Tatsuno, Kimio; and Kataoka, Keiji, 4,644,160, Cl. 250-201.000.
  - Arita, Setsuo; and Sato, Takao, 4,707,621, Cl. 307-441.000.
  - Aritomi, Toshiaki; Shinohara, Hatsue; and Sakuraba, Shinichi, 4,653,078, Cl. 377-10.000.
  - Asakura, Yamato; and Uchida, Shunsuke, 4,704,245, Cl. 376-245.000.
  - Asami, Kazuo, 4,667,284, Cl. 364-187.000.
  - Asano, Katsuhiko; Kurita, Isao; and Kamishita, Isamu, 4,654,961, Cl. 29-599.000.
  - Baba, Kenji; Watanabe, Shoji; Nogita, Shunsuke; Yoda, M Tanaka, Akihiro; and Mori, Shunji, 4,654,139, Cl. 210-85.00
  - Chinone, Naoki; Tsuji, Shinji; Fujisaki, Yoshihisa; Kashiwa Yasutoshi; and Hirao, Motohisa, 4,665,528, Cl. 372-96.000.
  - Daiko, Yoichi; Masuda, Masami; and Terabayashi, Ta 4,697,964, Cl. 408-6.000.
  - Doi, Nobukazu; Izumita, Morishi; Mita, Seiichi; Eto, Yoshizum and Rokuda, Morito, 4,653,052, Cl. 371-39.000.
  - Ebata, Sakae; and Ohshima, Nobuaki, 4,682,754, Cl. 248-639.00
  - Ejiri, Yuuki; Ito, Tomoo; Tsuruta, Hisato; and Kamifuji, Hiro 4,639,624, Cl. 310-154.000.
  - Endo, Akira; Takezaki, Jiro; Tsuji, Fumio; and Shibata, Taka 4,638,438, Cl. 364-449.000.
  - Endo, Fumihiro; Kobayashi, Shigeo; and Yoshioka, Yo 4,667,072, Cl. 200-148.00A.
  - Endo, Junji; Tonomura, Akira; Ozasa, Susumu; Matsuda, Tsuyo Kimura, Chikara; and Osakabe, Nobuyuki, 4,642,461, C 250-311.000.
  - Endo, Shyusuke; Aoyama, Naofumi; Yabuuchi, Toshih Sakuma, Toshiyuki; and Kinugawa, Kiyoshige, 4,701,025, C 350-333.000.
  - Endo, Shyusuke; Aoyama, Naofumi; Yabuuchi, Toshih Sakuma, Toshiyuki; and Kinugawa, Kiyoshige, 4,702,560, C 350-333.000.
  - Era, Susumu; Yokokura, Hisao; Iwasaki, Kishiro; Nakata, Tad Kitamura, Teruo; and Mukoh, Akio, 4,653,866, Cl. 350-350.0
  - Eto, Yoshizumi, 4,652,942, Cl. 360-32.000.
  - Eto, Yoshizumi; Umemoto, Masuo; Kanada, Hidehiro; and Ma Seiichi, 4,698,811, Cl. 371-38.000.
  - Fujii, Hideji; Hayakawa, Takayuki; Sato, Shigeru; and Yanagiha Eiichi, 4,640,729, Cl. 156-257.000.
  - Fujisawa, Hiromichi; Nakano, Yasuaki; Komatsu, Hitoshi; Kado Shozo; and Kurino, Kiyomichi, 4,654,873, Cl. 382-9.000.
  - Fujisawa, Masayasu, 4,712,535, Cl. 125-13.00R.
  - Fujitsugu, Yutaka; Ito, Tomoo; and Uchida, Tadao, 4,669,504, C 137-625.650.
  - Fukasawa, Tetsuo; Ohtsuka, Masaharu; Uetake, Naohito; an Ozawa, Yoshihiro, 4,659,511, Cl. 252-628.000.
  - Fukasawa, Tetsuo; Kawamura, Fumio; and Kikuchi, Mako 4,708,822, Cl. 252-628.000.
  - Fukinuki, Takahiko, 4,660,072, Cl. 358-12.000.
  - Fukuda, Minoru; Takahashi, Hideaki; Sugiura, June; Tsuchi Fumio; and Kihara, Toshimasa, 4,691,298, Cl. 365-189.00
  - Fukuda, Yasushi; Oka, Takafumi; and Tanaka, Kazuo, 4,698,8 Cl. 371-38.000.
  - Fukuhara, Satoru; and Todokoro, Hideo, 4,687,931, C 250-310.000.
  - Fukunaga, Yasushi; Kuzunuki, Soshiro; Shojima, Hiro Yokoyama, Takanori; Koga, Kazuyoshi; Hirasawa, Kotaro; an Kawada, Shinichi, 4,641,354, Cl. 382-13.000.
  - Fukunaga, Yasushi; and Fujita, Ryo, 4,646,073, Cl. 340-709.00
  - Fukushima, Tadashi; Kobayashi, Yoshiki; Okuyama, Yoshiyu Katoh, Takeshi; and Kashioka, Seiji, 4,665,556, Cl. 382-41.00
  - Funabashi, Tsuneo; Iwasaki, Kazuhiko; Yamaguchi, Nobor Shimura, Takanori; and Tatezaki, Junichi, 4,674,037, C 364-200.000.
  - Funabashi, Tsuneo; Iwasaki, Kazuhiko; and Nakamura, Hide 4,716,522, Cl. 364-200.000.
  - Furihata, Makoto; Ogura, Setsuo; Kondo, Shizuo; an Minamimura, Eiji, 4,670,859, Cl. 365-104.000.
  - Furuhata, Takashi; Mohri, Katsuo; and Konishi, Katsuo, 4,642,7 Cl. 360-77.000.
  - Furuhata, Takashi; and Owashi, Hitoaki, 4,688,081, Cl. 358-19.00
  - Furuta, Yoshiteru; and Nomura, Yasushi, 4,668,617, Cl. 435-4.0
  - Futamoto, Masaaki; Honda, Yukio; Uesaka, Yasutaro; and Yoshida Kazuetsu, 4,707,756, Cl. 360-131.000.
  - Gemma, Hideaki; and Hino, Masafumi, 4,638,428, Cl. 364-200.00
  - Gondou, Takafumi; Amada, Eiichi; and Asano, Kenichi, 4,665,5 Cl. 365-190.000.
  - Goto, Shinichi; and Ogiro, Kenji, 4,712,149, Cl. 360-132.000.
  - Gotoh, Toshihiko; Yoshida, Takahiko; and Kobori, Yasuno 4,704,618, Cl. 346-76.0PH.
  - Gotou, Shizuo; Kagimasa, Toyohiko; Yoshizumi, Seiichi; an Shintani, Yooichi, 4,679,140, Cl. 364-200.000.
  - Gotou, Tadashi; and Yamamoto, Hisashi, 4,687,418, Cl. 417-50.00
  - Hagiwara, Takaaki; Itoh, Yokichi; Kondo, Ryuji; Yatsuda, Y and Minami, Shinichi, 4,654,828, Cl. 365-184.000.
  - Hagiwara, Takaaki; Kaga, Toru; and Masuda, Hiroo, 4,656,607, C 365-182.000.
  - Hakoyama, Akiyoshi; Sasaki, Akira; and Fukasawa, Nobuak 4,652,155, Cl. 400-120.000.
  - Hakoyama, Akiyoshi; Saitoh, Shouji; and Sasaki, Akira, 4,672,39 Cl. 346-76.0PH.
  - Hama, Yasuo; and Takaku, Shigetake, 4,680,969, Cl. 73-661.00
  - Hamada, Toyohide; and Hirabayashi, Hisaaki, 4,674,181, C 29-703.000.
  - Hamada, Toyohide; Sugimoto, Koichi; Koizumi, Kiyohide; and Arai, Shinichi, 4,674,947, Cl. 414-735.000.
  - Hanamura, Shoji; Aoki, Masaaki; and Masuhara, Toshiak 4,710,648, Cl. 307-443.000.
  - Hanma, Kentaro; and Masuda, Michio, 4,675,747, Cl. 358-335.00
  - Hara, Yasuhiko; Karasaki, Koichi; Ujiie, Noriaki; and Sase, Akira 4,692,690, Cl. 324-73.0PC.
  - Hara, Yasuhiko; Saito, Keiya; Karasaki, Koichi; and Sase, Akira 4,700,225, Cl. 358-106.000.

Harada, Yutaka; Kawabe, Ushio; Kotera, Nobuo; and Asano, Atsushi, 4,672,244, Cl. 307-476.000.

Haraguchi, Eiji; Nakagawa, Hiroto; Bando, Akira; Kuwahara, Takao; Nohara, Haruo; and Ono, Kenichi, 4,694,189, Cl. 290-40.00C.

Haramaki, Takashi; Shiota, Katsuhiko; Kokura, Satoshi; Funamoto, Takao; and Tomita, Akira, 4,645,119, Cl. 228-183.000.

Haramaki, Takashi; Funamoto, Takao; Kokura, Satoshi; Inagaki, Masahisa; Jimbou, Ryutaro; Sasaki, Toshimi; and Nagayama, Kousei, 4,691,856, Cl. 228-194.000.

Haruna, Koichi; Nakao, Kazuo; Nishiyama, Tamotsu; Tashiro, Tsutomu; Matsumoto, Kuniaki; and Saida, Nobuyuki, 4,644,480, Cl. 364-552.000.

Hasegawa, Akira; Shibata, Takanori; and Hamano, Fumio, 4,654,890, Cl. 455-607.000.

Hasegawa, Kunio; Shimizu, Tasuku; Horiuchi, Tetsuo; and Ito, Hisao, 4,687,625, Cl. 376-292.000.

Hasegawa, Shinji; Kando, Yasuhiko; and Nakagomi, Tamihito, 4,693,562, Cl. 350-337.000.

Hashimoto, Masahiro; Watanabe, Tsuyoshi; and Wada, Kenichi, 4,639,886, Cl. 364-736.000.

Hatakeyama, Yasuhiko; and Nagashima, Shigeo, 4,641,275, Cl. 364-900.000.

Hatakeyama, Yasuhiko; and Murayama, Hiroshi, 4,658,355, Cl. 364-200.000.

Hatayama, Kazumi; and Hayashi, Terumine, 4,710,930, Cl. 371-25.000.

Hatazawa, Kikuo, 4,635,212, Cl. 364-518.000.

Hattori, Sadao, 4,645,633, Cl. 376-179.000.

Hayashi, Yoshihiko, 4,651,334, Cl. 377-108.000.

Higashi, Housei; Terayama, Takao; Nishijima, Hideo; and Nakamura, Hiroshi, 4,675,752, Cl. 360-10.300.

Higashi, Toshihiko; and Tennichi, Yasuhiro, 4,658,590, Cl. 60-660.000.

Higeta, Kazuya; Daikoku, Takahiro; Fujioka, Kazumasa; and Nakajima, Isao, 4,672,392, Cl. 346-76.0PH.

Hikino, Keiji; Kaji, Shinichi; and Nakamura, Shin, 4,649,654, Cl. 34-30.000.

Hirai, Hiromu; Yamaguchi, Takashi; Takase, Fuyuto; and Yoshida, Tomomasa, 4,667,139, Cl. 318-687.000.

Hirai, Masato; Kurata, Masami; and Yoshino, Ryozo, 4,697,047, Cl. 178-2.00C.

Hirai, Yasuharu, 4,704,540, Cl. 250-573.000.

Hirai, Yoichi; Fujii, Tsunenori; Koto, Kaoru; Suzuki, Kenji; Yoshida, Masahiro; Okawa, Hisashi; Okabe, Yoshiaki; Kitamura, Teruo; Yokokura, Hisao; Hattori, Shintaroo; Mukoh, Akio; and Sato, Mikio, 4,694,098, Cl. 560-59.000.

Hiramoto, Kazuo, 4,691,204, Cl. 342-22.000.

Hirano, Yoshiyuki; Seo, Yosuke; Okuwaki, Toyoji; Kato, Katsuhiko; and Tamura, Takashi, 4,651,242, Cl. 360-103.000.

Hiratani, Masahiko; Miyauchi, Katsuki; Ito, Yukio; Kanehori, Keiichi; Kirino, Fumiyoshi; and Kudo, Tetsuichi, 4,645,726, Cl. 429-191.000.

Hiroi, Takashi; Ninomiya, Takanori; and Nakagawa, Yasuo, 4,641,527, Cl. 73-582.000.

Hirosawa, Toshio; Ohki, Masaru; Motobayashi, Shigeru; and Kuwahara, Yutaka, 4,646,235, Cl. 364-200.000.

Hirose, Tadashi; Sakoda, Kousuke; Kojima, Tomihiko; Akita, Hidehiko; and Miyairi, Tsutomu, 4,665,478, Cl. 364-200.000.

Hirotsu, Tetsuji; Kiwaki, Hisakatsu; Nakamura, Kiyoshi; Narita, Hiroshi; Kasai, Syozi; Kimura, Akira; and Tsutsui, Yoshio, 4,701,682, Cl. 318-52.000.

Hoizumi, Shinichi; Abe, Norio; Ueno, Takeshi; Arakawa, Tadao; and Hodozuka, Kunio, 4,693,086, Cl. 60-663.000.

Hokari, Sadao; Hori, Takamasa; Komuro, Katsu; Hatakeyama, Takanobu; Narita, Toshiroo; Katayama, Yasunori; and Arahori, Noboru, 4,661,757, Cl. 318-798.000.

Homma, Yoshio; and Nishida, Takashi, 4,710,398, Cl. 437-235.000.

Honma, Noriyuki; Nambu, Hiroaki; Yoshida, Isao; Higuchi, Hisayuki; and Yamaguchi, Kunihiko, 4,642,486, Cl. 307-463.000.

Honma, Noriyuki; Kitsukawa, Goro; and Suzuki, Makoto, 4,697,109, Cl. 307-475.000.

Hori, Ryoichi; and Ito, Kiyoo, 4,686,650, Cl. 365-189.000.

Hori, Ryoichi; and Itoh, Kiyoo, 4,691,304, Cl. 365-226.000.

Hori, Ryoichi; Itoh, Kiyoo; and Etoh, Jun, 4,716,313, Cl. 307-475.000.

Horibe, Youshun; Ohshima, Yoshikuni; and Masuda, Toyohiko, 4,637,350, Cl. 122-441.000.

Horie, Akira; and Tsuboi, Takashi, 4,644,240, Cl. 318-768.000.

Horie, Akira; and Okamatsu, Shigetoshi, 4,672,525, Cl. 363-58.000.

Horiuchi, Susumu; and Tamata, Shin, 4,710,318, Cl. 252-628.000.

Hosaka, Nobuyoshi; Shimizu, Tasuku; Mikada, Kenzo; Tamura, Kozo; and Tanabe, Masatoshi, 4,678,571, Cl. 210-202.000.

Hoshi, Akio; and Oura, Toshiyuki, 4,702,371, Cl. 206-328.000.

Hosoda, Yuji; Honma, Kazuo; Fujie, Masakatsu; Iwamoto, Taro; Kamejima, Kohji; and Nakano, Yoshiyuki, 4,709,342, Cl. 364-558.000.

Hosoda, Yuji; Honma, Kazuo; and Fujie, Masakatsu, 4,715,637, Cl. 294-86.400.

Hotta, Yoshiji; Kuroda, Kunishige; Kimura, Hiroshi; Hara, Nobuhiro; and Tada, Naofumi, 4,692,560, Cl. 174-15.0CA.

Houkita, Atsushi; and Hokari, Tomio, 4,689,959, Cl. 60-602.000.

Ibamoto, Masahiko; Hori, Takamasa; Asano, Hideki; and Yokota, Hajime, 4,672,197, Cl. 250-227.000.

Ibori, Satoshi; Shimotu, Tadao; and Yabu, Masatomo, 4,689,542, Cl. 318-778.000.

Ichihashi, Mikio; Okumura, Masahide; and Fukuhara, Satoru, 4,670,652, Cl. 250-310.000.

Ichikawa, Norio; Takeda, Seijiro; and Tsuruoka, Kazuhiro, 4,644,797, Cl. 73-706.000.

Igarashi, Osamu, 4,713,762, Cl. 364-424.000.

Iguma, Akira; and Okuda, Tadashi, 4,669,823, Cl. 380-255.000.

Iguma, Akira; Okuda, Tadashi; Ieki, Kouichi; and Sasamoto, Toshio, 4,702,555, Cl. 350-247.000.

Iida, Muneo; Simizu, Jyosei; Suzuki, Masami; Okamoto, Nobuyuki; Kazama, Toshinori; Honda, Masanobu; Mochida, Jiro; Tada, Seiji; and Fujii, Masayuki, 4,660,110, Cl. 360-98.000.

Iizuka, Kenichi; Kitayama, Tooru; Uzuhashi, Hideo; and Aoki, Hideo, 4,709,317, Cl. 363-37.000.

Iizuka, Nobuyuki; Hisano, Katsukuni; Wada, Katsuo; Kunihiro, Masashi; Hirose, Fumiyuki; Ishibashi, Yoji; Sato, Isao; Arai, Osamu; Inose, Hiroshi; and Sakuda, Osamu, 4,677,822, Cl. 60-39.230.

Iizuka, Nobuyuki; Hisano, Katsukuni; Oshima, Ryoichiro; Wada, Katsuo; Hirose, Fumiyuki; Kuroda, Michio; Uchiyama, Yoshihiro; Ishibashi, Yoji; Sato, Isao; and Inose, Hiroshi, 4,683,715, Cl. 60-39.060.

Iizuka, Nobuyuki; Hirose, Fumiyuki; Sato, Isao; and Ishibashi, Yoji, 4,704,869, Cl. 60-751.000.

Ikeda, Hiraku; and Kuwashima, Hidesumi, 4,714,401, Cl. 415-30.000.

Ikeda, Koichi; Nakamura, Kozi; and Okabe, Toshihiro, 4,695,947, Cl. 364-200.000.

Ikeda, Mitsuo; Aiba, Kazumi; and Arata, Tetsuya, 4,649,611, Cl. 29-156.40R.

Ikeda, Tetsuya, 4,689,613, Cl. 340-703.000.

Ikuzaki, Kunihiko, 4,636,989, Cl. 365-222.000.

Imaide, Takuya, 4,688,085, Cl. 358-44.000.

Imamura, Jiro, 4,644,465, Cl. 364-200.000.

Imura, Midori; Morijiri, Makoto; Hanazono, Masanobu; Kazui, Shinichi; Miura, Youzi; and Ogino, Hiroyuki, 4,659,587, Cl. 427-35.000.

Imura, Ryo; Ikeda, Tadashi; and Sugita, Yutaka, 4,701,385, Cl. 428-693.000.

Inagaki, Masahisa; Jimbou, Ryutaro; Kuniya, Keiichi; Masaoka, Isao; and Maki, Hideo, 4,664,727, Cl. 148-407.000.

Inagoya, Osamu; Fujiwara, Hideo; Tottori, Takeshi; Yamano, Minoru; Kumasaka, Noriyuki; Otomo, Shigekazu; Kudo, Mitsuhiro; Morikawa, Juiti; Ishihara, Kiyoshi; Usui, Akira; and Hayashi, Masashi, 4,701,819, Cl. 360-122.000.

Inoue, Fumio; Eto, Masahiro; Shimaoka, Shoei; and Sakai, Noboru, 4,641,195, Cl. 358-242.000.

Inoue, Tooru; Nagasawa, Kiyoshi; and Yamane, Kyooji, 4,700,116, Cl. 318-254.000.

Inoue, Yasuo; and Tadauchi, Masaharu, 4,634,885, Cl. 250-578.000.

Ishida, Koji; and Matumura, Hiroyoshi, 4,695,122, Cl. 350-96.120.

Ishigaki, Masaji; Ohishi, Tetsu; Tokusyuku, Nobuhiro; Kodera, Yoshie; and Fukui, Yukio, 4,645,712, Cl. 428-433.000.

Ishihara, Heigo; and Ohno, Tomoyuki, 4,692,378, Cl. 428-340.000.

Ishihara, Joo; Ogawa, Toshio; Era, Masashi; and Sato, Ken-ichi, 4,697,320, Cl. 29-132.000.

Ishii, Satoru; Nemoto, Tugio; and Aiki, Kunio, 4,702,556, Cl. 350-320.000.

Ishikawa, Toshimitsu; Ozawa, Mishihiro; Sakurai, Mikio; Konno, Mutsuo; Aizawa, Yasuhiro; Igarashi, Takao; and Hirakawa, Hiromasa, 4,686,079, Cl. 376-444.000.

Ishikawa, Toshio; Endo, Fumihiro; Yamagiwa, Tokio; and Kamata, Yuzuru, 4,667,061, Cl. 174-14.00R.

Ishimaru, Hitoshi; and Kobayashi, Toshiki, 4,713,209, Cl. 376-211.000.

Ishitani, Tohru; Tamura, Hifumi; and Umemura, Kaoru, 4,697,086, Cl. 250-492.200.

Ishitani, Tohru; Todokoro, Hideo; Kawanami, Yoshimi; and Tamura, Hifumi, 4,710,632, Cl. 250-396.00R.

Ishizawa, Isamu; and Tamaki, Sigeo, 4,712,531, Cl. 123-556.000.

Ishizuka, Takuo; and Kato, Masao, 4,675,671, Cl. 340-825.050.

Iso, Yoshimi; Nakagaki, Harushige; and Nakamura, Masafumi, 4,675,855, Cl. 369-32.000.

Isogai, Masato; Hattori, Shintaroo; Iwaskai, Kishiro; Mukoh, Akio; Umeda, Takao; and Nagae, Yoshiharu, 4,634,226, Cl. 350-332.000.

Itagaki, Masato; Kikuchi, Katsuaki; Nakayama, Susumu; Haeda, Yoshio; and Kawakami, Takashi, 4,704,792, Cl. 29-741.000.

Itahana, Hiroshi; and Usui, Yoshinori, 4,694,323, Cl. 357-82.000.

Itakura, Sakae; and Morikawa, Osamu, 4,636,919, Cl. 361-414.000.

Ito, Hiroshi; and Kugo, Masaru, 4,653,863, Cl. 350-339.00F.

Ito, Hiroshi; and Kugo, Masaru, 4,664,481, Cl. 350-345.000.

Ito, Hiroshi; Kugo, Masaru; and Watanate, Sizuhisa, 4,697,886, Cl. 350-336.000.

Ito, Masahiro; Kobayashi, Masaharu; and Arai, Takao, 4,716,567, Cl. 371-40.000.

Ito, Motoya; Takahashi, Noriyoshi; Watanabe, Masatoshi; Abukawa, Toshimi; Seya, Takeshi; Kainuma, Hiroshi; and Syutoo, Toshiyuki, 4,704,789, Cl. 29-609.000.

Ito, Syoichi; and Akahori, Ken-ichi, 4,642,622, Cl. 340-724.000.

Ito, Takayasu; Nishijima, Hideo; Fukushima, Isao; Fujimori, Yoshio; and Kobori, Yasunori, 4,651,067, Cl. 318-254.000.

Ito, Tetsuo; and Arita, Setsuo, 4,644,346, Cl. 340-825.030.

Ito, Tetsuo; Arita, Setsuo; and Kitaura, Wataru, 4,673,974, Cl. 358-108.000.

Ito, Tosikazu; Komathuzaki, Kiyomi; Chonan, Kenichi; and Horibe, Kiyoshi, 4,669,361, Cl. 91-459.000.

Itoh, Kiyoo; and Hori, Ryoichi, 4,675,845, Cl. 365-51.000.

Itoh, Michio; Ishikawa, Isao; Yoshida, Motoko; and Okano, Kazunori, 4,666,581, Cl. 204-299.00R.

Itoh, Yoshitoshi; Mizuno, Katsuhiro; and Noguchi, Atomi, 4,682,845, Cl. 350-96.180.

Itsuji, Takayuki; and Ueno, Sadayasu, 4,676,213, Cl. 123-440.000.

Iwamura, Masahiro; and Masuda, Ikuro, 4,694,202, Cl. 307-475.000.

Iwasaki, Kazuhiko; Takezaki, Junichi; and Funabashi, Tsuneo, 4,677,623, Cl. 371-40.000.

Iwasaki, Kishiro; Era, Susumu; Yokokura, Hisao; Nakata, Tadao; and Mukoh, Akio, 4,634,228, Cl. 350-341.000.

Izumi, Shigeru; Senoh, Makoto; Tsumaki, Koji; and Miyata, Kenji, 4,641,526, Cl. 73-572.000.

Izumita, Morishi; Mita, Seiichi; Umemoto, Masuo; Kanada, Hidehiro; and Rokuda, Morito, 4,661,956, Cl. 371-38.000.

Jinriki, Tatenori; and Kozawa, Fusaaki, 4,696,202, Cl. 74-479.000.

Kagohata, Tsuneo; Chonan, Kenichi; Suginuma, Atsushi; Teraka, Akira; and Usui, Hideo, 4,649,709, Cl. 62-89.000.

Kaita, Hirosi; Kojima, Tsuyoshi; and Kawai, Motoji, 4,643,344, Cl. 227-112.000.

Kaizaki, Kazuhiro; Kubota, Sadao; Harada, Hiroshi; and Matsuura, Shigeo, 4,636,863, Cl. 358-167.000.

Kajigaya, Kazuhiko, 4,709,351, Cl. 365-51.000.

Kajiwara, Toshiyuki; Kimura, Tomoaki; and Nihei, Mitsuo, 4,706,871, Cl. 228-158.000.

Kakehi, Yutaka, 4,664,578, Cl. 414-217.000.

Kaku, Toshimitsu; Kataoka, Keiji; Tsunoda, Yoshito; and Shigematsu, Kazuo, 4,656,618, Cl. 369-112.000.

Kaku, Toshimitsu; Tsunoda, Yoshito; Maeda, Takeshi; and Nakamura, Shigeru, 4,663,751, Cl. 369-46.000.

Kakuse, Katsuharu; and Tsukiyama, Tokuhiro, 4,663,752, Cl. 369-48.000.

Kamata, Yasuji; and Kato, Kazuo, 4,646,029, Cl. 330-283.000.

Kambara, Hideki; Tokita, Jirou; Simada, Tamotu; and Watanabe, Ken'ichi, 4,675,095, Cl. 204-299.00R.

Kambayashi, Hiroaki; and Okada, Yasuyuki, 4,683,552, Cl. 364-900.000.

Kamejima, Kohji; and Ogawa, Yuriko, 4,652,803, Cl. 318-587.000.

Kamo, Yoshihisa; Sato, Naoki; Kitada, Masahiro; and Takeura, Tooru, 4,663,684, Cl. 360-113.000.

Kamohara, Hideaki; Fujioka, Kazumasa; Kobari, Toshiaki; Takahashi, Kunihiro; and Ueda, Shinjiro, 4,664,062, Cl. 118-719.000.

Kamura, Yukio; Nakano, Seizo; Tsubaki, Tohru; Miwada, Satoshi; and Amano, Naoki, 4,658,329, Cl. 361-332.000.

Kanamaru, Hisanobu; Sasaya, Kazushi; Onuma, Tomiyasu; and Tohkairin, Akira, 4,644,850, Cl. 91-507.000.

Kanamaru, Hisanobu; Aoyama, Susumu; and Koike, Tsutomu, 4,653,305, Cl. 72-343.000.

Kanazawa, Hiroshi; Yamashita, Seizi; and Miyashita, Kunio, 4,678,971, Cl. 318-135.000.

Kando, Yasuhiko; Nakagomi, Tamihito; and Hasegawa, Shinji, 4,652,088, Cl. 350-334.000.

Kando, Yasuhiko; Nakagomi, Tamihito; and Hasegawa, Shinji, 4,653,861, Cl. 350-337.000.

Kando, Yasuhiko; Nakagomi, Tamihito; Hasegawa, Shinji; and Hanada, Yoshio, 4,653,865, Cl. 350-346.000.

Kando, Yasuhiko; Nakagomi, Tamihito; and Hasegawa, Shinji, 4,664,482, Cl. 350-346.000.

Kaneko, Tomomichi; Suzuki, Shigeyasu; and Arakawa, Shouji, 4,698,981, Cl. 62-180.000.

Kaneko, Yoichi; Sekine, Kenji, and Funaki, Haruhiko, 4,647,869, Cl. 330-286.000.

Kaneyasu, Masayoshi; Arima, Hideo; Ito, Mitsuko; Iwanaga, Shoichi; Sato, Nobuo; Noro, Takanobu; Ikagami, Akira; and Isogai, Tokio, 4,638,443, Cl. 364-497.000.

Kaniwa, Koji; Watatani, Yoshizumi; and Itoh, Shigeyuki, 4,677,645, Cl. 375-8.000.

Karasaki, Koichi; Kobayashi, Mamoru; and Hara, Yasuhiko, 4,672,209, Cl. 250-458.100.

Kashimura, Yuichi; Sugiura, Noboru; Ishii, Toshio; Shida, Masami; Teragakiuchi, Akira; and Mouri, Yasunori, 4,676,212, Cl. 123-425.000.

Kasuya, Katsuhiko; Sasaki, Shigeru; and Nagai, Toshiaki, 4,671,751, Cl. 418-201.000.

Kataoka, Keiji; and Saito, Susumu, 4,640,573, Cl. 350-6.100.

Katayama, Masanori; Komoda, Norihisa; Murata, Tomohiro; and Kera, Kazuo, 4,638,227, Cl. 318-565.000.

Kato, Matsuo; Ohtsuki, Tomonari; Hashimoto, Kazuya; and Nakaide, Masami, 4,706,381, Cl. 29-857.000.

Kato, Tsuyoshi; Ojima, Masahiro; and Niihara, Toshio, 4,672,594, Cl. 369-13.000.

Kato, Yasuo; Ono, Tetsuo; Watanabe, Yoshio; Murayama, Seiichi; Mikoshiba, Shigeo; and Matsuno, Hiromitsu, 4,697,121, Cl. 313-595.000.

Kato, Yasuo; Harada, Kunio; Kubota, Shigeo; Watanabe, Yoshio; and Murayama, Seiichi, 4,715,054, Cl. 378-122.000.

Katsura, Koyo; and Maejima, Hideo, 4,677,549, Cl. 364-200.000.

Kawakami, Mitsuo; and Kawamoto, Hiroyuki, 4,678,727, Cl. 429-104.000.

Kawamoto, Hiroshi, 4,695,864, Cl. 357-41.000.

Kawamura, Fumio; Matsuda, Masami; Aoyama, Yoshiyuki; Chino, Koichi; and Mizumoto, Mamoru, 4,636,335, Cl. 252-629.000.

Kawanishi, Tsuneaki; Mori, Yasuki; Noguchi, Koji; and Iimura, Tsutomu, 4,640,880, Cl. 430-106.600.

Kawasaki, Katsuhiro, 4,710,640, Cl. 250-492.200.

Kawashima, Katsuyuki; and Inoue, Kotaro, 4,655,989, Cl. 376-173.000.

Kawashima, Sosuke; and Ichihashi, Kazuaki, 4,699,554, Cl. 414-217.000.

Kawashita, Asayoshi, 4,648,132, Cl. 455-607.000.

Kihara, Kazuhiko; Tsunekane, Kinichiro; Shidara, Hajime; and Makino, Tadashi, 4,653,674, Cl. 222-342.000.

Kikuma, Toshio; Matsumoto, Hiromi; Tagawa, Masayoshi; Kajiwara, Toshiyuki; Kimura, Tomoaki; Iida, Yoshihiko; and Yoshimoto, Kenichi, 4,700,312, Cl. 364-472.000.

Kimura, Katsutaka; Hori, Ryoichi; Ito, Kiyoo; and Sunami, Hideo, 4,641,279, Cl. 365-149.000.

Kimura, Mitsuyoshi; Nogami, Taro; Owada, Minoru; and Kosh Hiroyuki, 4,647,202, Cl. 356-318.000.

Kimura, Shin; Fukui, Hiroshi; Amano, Hisao; Yatsuo, Tsutomu; Oikawa, Saburo; and Nagano, Takahiro, 4,646,122, Cl. 357-38.000.

Kimura, Shin-Ichiro; Murakami, Eiichi; Warabisako, Terunori; Miyake, Kiyoshi; and Sunami, Hideo, 4,683,838, Cl. 118-715.000.

Kinameri, Kanji, 4,702,607, Cl. 356-432.000.

Kinoshita, Toshiyuki; Arai, Toshiaki; Sato, Takao; Kubo, Taishige; Yoshizawa, Yasufumi; and Mori, Hiromichi, 4,703,422, Cl. 364-200.000.

Kiriu, Yoshio; Kaneko, Shigeru; and Kosuge, Hiroshi, 4,692,922, Cl. 371-37.000.

Kishi, Makoto; and Matsuo, Toshihisa, 4,675,811, Cl. 364-200.000.

Kita, Toshiaki; and Harada, Tatsuo, 4,690,506, Cl. 350-320.000.

Kitabatake, Shoichi; Yabe, Yuhiko; and Ami, Kazuhiko, 4,666,36 Cl. 414-480.000.

Kitada, Masahiro; Tanabe, Hideo; Shimizu, Noboru; Tsuchiya, Hiroshi; and Katsumata, Masao, 4,663,607, Cl. 338-32.00H.

Kitagishi, Tomoji; Sasaki, Akira; Hakoyama, Akiyoshi; Furukawa, Shigetaka; Suzaki, Masafumi; Kobayashi, Ryooichi; Mikami, Katsumasa; Takahashi, Yoshihito; Nagano, Yousuke; and Honma, Takeo, 4,707,708, Cl. 346-76.0PH.

Kitano, Masahiro; Wakai, Katsuro; and Hashimoto, Masahiro, 4,667,322, Cl. 371-25.000.

Kitaura, Wataru; and Ito, Tetsuo, 4,654,590, Cl. 324-208.000.

Kitazima, Masaaki; Kawakami, Hideaki; and Nagae, Yoshiharu, 4,649,517, Cl. 365-108.000.

Kitazume, Yoshiaki; Yasue, Toshikazu; Ohira, Eiji; Endo, Takeyuki; and Asou, Satoshi, 4,672,668, Cl. 381-43.000.

Kitou, Kouji; Ohki, Masashi; and Ohsawa, Michitaka, 4,649,465, Cl. 363-21.000.

Kobayashi, Haruhiko; and Otani, Tadahiko, 4,681,077, Cl. 123-489.000.

Kobayashi, Masaharu; Okamoto, Hiroo; and Arai, Takao, 4,646,170, Cl. 360-22.000.

Kobayashi, Masaharu; Noguchi, Takaharu; Arai, Takao; Masuda, Michio; and Yumde, Yasufumi, 4,670,796, Cl. 358-310.000.

Kobayashi, Minoru; Iizuka, Kenichi; and Uzuhashi, Hideo, 4,662,185, Cl. 62-228.400.

Kobayashi, Takao; Abe, Shigeo; Bandoh, Tadaaki; Takatoo, Masao; Matsumoto, Hidekazu; and Hara, Hideyuki, 4,644,49 Cl. 364-748.000.

Kobayashi, Toshio; Takagi, Kazumasa; and Fukazawa, Tokuumi, 4,691,983, Cl. 350-96.120.

Kobayashi, Yutaka; and Suzuki, Takaya, 4,693,758, Cl. 437-174.000.

Kobori, Yasunori; Hanma, Kentaro; and Gotoh, Toshihiko, 4,703,366, Cl. 358-335.000.

Kodama, Takuma; Takahashi, Kenji; Ishibashi, Shizuka; Kudo, Koji; Masuda, Yukihiro; Hombough, Masanori; Miyoshi, Osamu; and Yoshiwara, Kazuhisa, 4,649,421, Cl. 358-51.000.

Koga, Masataka; Kitagawa, Masatoshi; and Oishi, Konosuke, 4,645,341, Cl. 356-307.000.

Kohno, Atiomi; Nakae, Hideo; Yamamoto, Akihiko; and Kawamoto, Hiroyuki, 4,699,310, Cl. 228-122.000.

Koibuchi, Shigeru; Isobe, Asao; and Makino, Daisuke, 4,698,291, Cl. 430-196.000.

Koike, Hiroshi; Katada, Hiroshi; and Yoneda, Hiroshi, 4,715,353, Cl. 123-590.000.

Koike, Kazuyuki; and Hayakawa, Kazunobu, 4,658,138, Cl. 250-310.000.

Koike, Norio; Nakai, Masaaki; Ando, Haruhisa; Ozaki, Toshifumi; Ohba, Shinya; Ono, Hideyuki; and Akiyama, Toshiyuki, 4,689,687, Cl. 358-213.240.

Koizumi, Mitsuyoshi, 4,674,875, Cl. 356-237.000.

Koizumi, Yasuhiro; Torisawa, Soichi; Gartner, Walter; Dietz, Gudrun; and Retschke, Wolfgang, 4,704,348, Cl. 430-327.000.

Kojima, Keiji; and Torii, Shunichi, 4,644,471, Cl. 364-300.000.

Kojima, Yasuyuki; Hamada, Nagaharu; and Hori, Yasuro, 4,649,401, Cl. 346-76.0PH.

Kokaku, Yuuichi; Kitoh, Makoto; and Honda, Yoshinori, 4,713,288, Cl. 428-336.000.

Kokubo, Masaru; Nishita, Shigeo; and Yamakido, Kazuo, 4,652,858, Cl. 340-347.0DA.

Kokubo, Masaru; Nishida, Shigeo; and Yamakido, Kazuo, 4,672,36 , Cl. 340-347.0AD.

Komatsu, Shigeru; and Kawata, Keiji, 4,638,497, Cl. 375-116.000.

Komatsu, Shigeru; and Ikeda, Tetsuya, 4,677,427, Cl. 340-703.000.

Komeyama, Yoshihiro; Kembo, Yukio; Kuni, Asahiro; Funatsu, Ryuuichi; Inagaki, Akira; Ikeda, Minoru; and Okamoto, Keiichi, 4,708,484, Cl. 356-401.000.

Komori, Kazuhiro; Meguro, Satoshi; Ito, Satoru; Kihara, Toshimasa; and Wakimoto, Harumi, 4,653,026, Cl. 365-189.000.

Komori, Kazuhiro; Kuroda, Kenichi; and Sugiura, June, 4,663,645, Cl. 357-23.500.

Komori, Kazuhiro; Kuroda, Kenichi; and Okuyama, Kousuke, 4,697,198, Cl. 357-23.300.

Komoriya, Susumu; Nishizuka, Hiroshi; Nakagawa, Shinya; and Maejima, Hisashi, 4,699,505, Cl. 355-30.000.

Komuro, Matahiro; Kozono, Yuzo; Yasuda, Takeshi; Narishige, Shinji; Hanazono, Masanobu; and Kuroda, Tetsuro, 4,698,273, Cl. 428-635.000.

Kondou, Masakazu; and Nishiguchi, Takashi, 4,662,801, Cl. 407-119.000.

Konishi, Yozo; Akashi, Kichizo; Watase, Hideo; and Yoshioka, Tatsuo, 4,641,271, Cl. 364-478.000.

Kosaka, Michitaka; Mohri, Satoshi; Kawano, Katsumi; Sasaki, Toshiro; Miyamoto, Shoji; and Nakajima, Takashi, 4,658,361, Cl. 364-434.000.

Kosaka, Michitaka; Kawano, Katsumi; and Miyamoto, Shoji, 4,713,768, Cl. 364-460.000.

Koseki, Yasuo; Yamada, Akira; Kurokawa, Hideki; Matsuzaki, Harumi; Ebara, Katsuya; and Takahashi, Sankichi, 4,638,646, Cl. 62-478.000.

Koseki, Yasuo; Ebara, Katsuya; Takahashi, Sankichi; Matsuoka, Kazuhiko; Kuroiwa, Minoru; and Yamada, Akira, 4,670,137, Cl. 210-96.100.

Koshi, Hiroyuki, 4,699,512, Cl. 356-318.000.

Kosugi, Tetsuo, 4,705,761, Cl. 501-87.000.

Koyama, Yoshihisa, 4,658,283, Cl. 357-41.000.

Koyanagi, Mitsumasa; and Kaneko, Hiroko, 4,701,349, Cl. 427-93.000.

Kubo, Kanji; and Shiozaki, Kenichi, 4,670,836, Cl. 364-200.000.

Kubo, Kanji; and Wakai, Katsuro, 4,710,894, Cl. 364-900.000.

Kubo, Kiichirou; and Kanazaki, Mikio, 4,687,300, Cl. 350-336.000.

Kuboki, Shigeo; Masuda, Ikuro; Masuda, Toshiaki; and Hayashi, Terumine, 4,701,922, Cl. 371-25.000.

Kudo, Katsuyoshi; Nagatomo, Katsuaki; Yamamoto, Hideji; Nishita, Katsuyasu; and Ogawa, Yoshifumi, 4,664,767, Cl. 204-164.000.

Kudo, Mitsuhiro; Takayama, Shinji; Sawada, Yoshizo; and Ogata, Yasunobu, 4,668,310, Cl. 148-304.000.

Kudo, Satoshi, 4,641,419, Cl. 29-591.000.

Kudo, Tetsuichi; Kawamura, Go; and Ishikawa, Akira, 4,634,585, Cl. 423-419.00R.

Kudo, Tetsuichi; Kawamura, Go; and Ishikawa, Akira, 4,699,851, Cl. 429-33.000.

Kugo, Masaru; Igarashi, Osamu; Katogi, Kozo; Ito, Hiroshi; and Nakamura, Mamoru, 4,673,252, Cl. 350 V-339.00F.

Kugo, Masaru; Ouchi, Hideyuki; Katogi, Kouzou; Igarashi, Osamu; Suda, Seiji; Tokuyama, Keiichi; and Yamamura, Hirohisa, 4,708,440, Cl. 350-339.00F.

Kuki, Kouji; and Kuniyasu, Tsutomu, 4,670,824, Cl. 362-293.000.

Kumasaka, Noriyuki; Fujiwara, Hideo; Otomo, Shigekazu; Yamashita, Takeo; Takayama, Shinji; Saito, Noritoshi; and Kudo, Mitsuhiro, 4,656,547, Cl. 360-126.000.

Kumazawa, Kiyotake; Minamide, Noriaki; Moribe, Yoshihiro; Takahashi, Mikio; Beppu, Osamu; and Mitamura, Masahiro, 4,703,242, Cl. 318-685.000.

Kunugi, Yoshifumi; Sugimoto, Shigeo; Kohno, Kyoji; Ouchi, Tomihisa; and Machizawa, Kenji, 4,655,053, Cl. 62-476.000.

Kurihara, Yasutoshi; Soga, Tasao; Hachino, Hiroaki; Miyata, Kenji; Okamura, Masahiro; Kobayashi, Fumiyuki; and Daikoku, Takahiro, 4,649,990, Cl. 165-80.400.

Kurosawa, Toshiaki; Shima, Seiya; Ando, Takeki; Inaba, Hiromi; Nakashima, Hajime; and Mine, Toshisuke, 4,636,932, Cl. 363-54.000.

Kurosawa, Yukio; and Iwashita, Kiyoji, 4,695,689, Cl. 200-144.00B.

Kurosawa, Yukio; Iwashita, Kiyoji; Matumoto, Morihisa; Kurasawa, Takanao; and Endo, Syunkichi, 4,704,506, Cl. 200-144.00B.

Kusaka, Yoshimi; Yoshinari, Takashi; and Watanabe, Hiroshi, 4,658,799, Cl. 123-622.000.

Kusano, Chushirou; Ishioka, Sachio; Imamura, Yoshinori; Takasaki, Yukio; Ogawa, Hirofumi; Makishima, Tatsuo; and Hirai, Tadaaki, 4,636,682, Cl. 313-386.000.

Kushida, Keiko; and Takeuchi, Hiroshi, 4,677,336, Cl. 310-334.000.

Kushida, Keiko; Takeuchi, Hiroshi; and Katakura, Kageyoshi, 4,692,653, Cl. 310-334.000.

Kuwabara, Hiroshi; Ide, Jushi; Kamata, Yasuji; and Yamashita, Kenkichi, 4,638,308, Cl. 340-736.000.

Kuwabara, Tadashi; Matsuda, Yasumasa; Kasahara, Masatoshi; Mukumoto, Kyoji; and Tokunaga, Kazuyoshi, 4,672,398, Cl. 346-140.00R.

Kuwahara, Heikichi; Takahashi, Kenji; Yanagida, Takehiko; Nakayama, Wataru; Sugimoto, Shigeo; Nakayama, Yoshihiko; Yoshida, Hiromichi; Oizumi, Kiyoshi; Sasaki, Toshi; and Fukuda, Shigeho, 4,653,163, Cl. 29-157.30R.

Kuwahara, Heikichi; Takahashi, Kenji; Yanagida, Takehiko; Nakayama, Wataru; Sugimoto, Shigeo; and Oizumi, Kiyoshi, 4,690,211, Cl. 165-177.000.

Kuwahara, Kazuyoshi; Fukushima, Isao; Miura, Kuniaki; and Kano, Kenji, 4,713,700, Cl. 358-315.000.

Kuzunuki, Soshiro; Shojima, Hiroshi; Yokoyama, Takanori; Fukunaga, Yasushi; and Hirasawa, Kotaro, 4,680,804, Cl. 382-13.000.

Makiguchi, Kyoko; Sagusa, Hisayuki; and Nomura, Yasushi, 4,684,252, Cl. 356-328.000.

Makino, Kazuhiro; and Numata, Shigeo, 4,671,494, Cl. 254-277.000.

Manaka, Toshio; Atago, Takeshi; and Yamauchi, Teruo, 4,665,877, Cl. 123-472.000.

Maruyama, Eiichi; Fujikura, Makoto; Matsubara, Hirokazu; and Shimada, Toshikazu, 4,672,015, Cl. 430-57.000.

Maruyama, Hiromi; and Ohnishi, Tadahiro, 4,655,999, Cl. 376-333.000.

Maruyama, Masanori; Moriya, Masamichi; Kato, Shinichi; Fukushima, Masakazu; Nonaka, Yasuhiko; and Ogusu, Chihaya, 4,682,077, Cl. 315-14.000.

Maruyama, Masanori; Takahashi, Kenji; Kudo, Koji; Hombaugh, Masanori; and Nagahara, Shusaku, 4,716,468, Cl. 358-219.000.

Mase, Masahiro; Nagaoka, Takashi; Tsutsumi, Yoshitsugu; Taniyama, Minoru; and Terajima, Makoto, 4,668,160, Cl. 415-90.000.

Mashino, Keiichi, 4,642,548, Cl. 322-25.000.

Mashino, Keiichi, 4,680,530, Cl. 322-33.000.

Masuda, Ikuro; Iwamura, Masahiro; and Nishihara, Motohisa, 4,661,723, Cl. 307-446.000.

Masuda, Masachika; and Murakami, Gen, 4,706,105, Cl. 357-74.000.

Masuda, Mitsuhiro; Igarashi, Osamu; Tokuyama, Keiichi; and Katogi, Kozo, 4,649,381, Cl. 340-784.000.

Masuda, Noboru; Asano, Michio; Hayashi, Takehisa; Tanaka, Hirotoshi; and Masaki, Akira, 4,697,110, Cl. 307-475.000.

Masuda, Yukihiro; Ishibashi, Shizuka; Takahashi, Kenji; Kodama, Takuma; Kudo, Koji; and Hombough, Masanori, 4,647,822, Cl. 315-386.000.

Masuhara, Yasuhiro; Utamura, Motoaki; Kashiwai, Shinichi; Yokoyama, Iwao; Murata, Shigeto; Nakao, Toshitsugu; and Maeda, Yuichiro, 4,663,116, Cl. 376-377.000.

Masuzaki, Hidefumi; and Horikawa, Etsuo, 4,692,944, Cl. 382-41.000.

Matono, Takaaki; Murata, Toshinori; Kurita, Toshiyuki; and Nakagawa, Isao, 4,707,732, Cl. 358-31.000.

Matsubara, Katsumi; Uchida, Riichi; Muramatsu, Masatoshi; Naya, Kotaro; and Takagi, Tsuneharu, 4,714,418, Cl. 418-201.000.

Matsuda, Masami; Aoyama, Yoshiyuki; Kawamura, Fumio; Yusa, Hideo; Kikuchi, Makoto; Tamata, Shin; and Horiuchi, Susumu, 4,654,172, Cl. 252-629.000.

Matsuda, Toshiharu; Saho, Norihide; Imamura, Minoru; and Hosomi, Nobuyuki, 4,667,477, Cl. 62-55.500.

Matsui, Shigeru; Sekihara, Kensuke; Kohno, Hideki; Onodera, Takashi; and Shiono, Hidemi, 4,689,568, Cl. 324-309.000.

Matsumoto, Tetsuro; and Kajigaya, Kazuhiko, 4,635,233, Cl. 365-230.000.

Matsumoto, Tetsuro, 4,638,460, Cl. 365-149.000.

Matsumura, Hiroyoshi; and Ishida, Koji, 4,693,543, Cl. 350-96.110.

Matsuno, Hiromitsu; Murayama, Seiichi; and Ono, Tetsuo, 4,642,512, Cl. 313-25.000.

Matsushita, Osami; Takagi, Michiyuki; Yoneyama, Mitsuho; and Sugaya, Toyomi, 4,697,128, Cl. 318-607.000.

Matsushita, Yasuo; Nakamura, Kousuke; Ura, Mitsuru; and Kobayashi, Fumiyuki, 4,651,192, Cl. 357-74.000.

Matsuura, Yasuhiko, 4,694,454, Cl. 371-13.000.

Matsuyama, Haruhiko; Shoji, Fusaji; and Kuwazuka, Shunichiro, 4,686,147, Cl. 428-447.000.

Matsuyama, Shigeru; Kanazaki, Mikio; Aoki, Norio; and Ishii, Akira, 4,709,993, Cl. 350-339.00F.

Matsuzaki, Harumi; Kubota, Masayoshi; Ebara, Katsuya; Takahashi, Sankichi; and Kuroiwa, Minoru, 4,698,153, Cl. 210-192.000.

Matsuzawa, Toshiharu; and Mochiji, Kozo, 4,670,650, Cl. 250-307.000.

Mego, Kazuyoshi; Hiratsuka, Shigetoshi; and Hara, Eiichi, 4,636,813, Cl. 346-76.0PH.

Michiguchi, Yoshihiro; Hiramoto, Kazuo; Nishi, Masatsugu; and Takahashi, Fuminobu, 4,677,438, Cl. 342-22.000.

Michiguchi, Yoshihiro; Takahashi, Fuminobu; Hiramoto, Kazuo; Nishi, Masatsugu; and Sonoda, Shinji, 4,706,031, Cl. 324-337.000.

Minato, Osamu; Aoki, Masakazu; Yatsuda, Yuji; Takagi, Katsuaki; and Horiguchi, Masashi, 4,653,025, Cl. 365-154.000.

Minemura, Tetsuroh; Ishihara, Joo; Nagai, Masaichi; and Tamamura, Takeo, 4,668,591, Cl. 428-605.000.

Misumi, Akira, 4,636,681, Cl. 313-346.00R.

Misumi, Akira; Hirai, Ryoji; and Watanabe, Rikizo, 4,713,576, Cl. 313-402.000.

Mita, Seiichi; Izumita, Morishi; Michikawa, Yuichi; Katayama, Hitoshi; Shiono, Hiroshi; Takagi, Hitoshi; Rokuda, Morito; and Doi, Nobukazu, 4,682,115, Cl. 328-164.000.

Mitomo, Toshihide, 4,677,525, Cl. 361-341.000.

Mitsumaki, Hiroshi; Takano, Nobuyoshi; and Ono, Naoya, 4,680,270, Cl. 436-52.000.

Mitsumaki, Hiroshi; Ono, Naoya; Shindo, Isao; and Takano, Nobuyoshi, 4,696,183, Cl. 73-19.000.

Miura, Kuniaki; Yunde, Yasufumi; Kotani, Kazunori; Fukushima, Isao; and Kano, Kenji, 4,647,960, Cl. 358-37.000.

Miura, Kuniaki; Okada, Yoshinori; Fukushima, Isao; and Otsuka, Susumu, 4,691,246, Cl. 358-310.000.

Miura, Yoshio; Takayama, Chiharu; Fujishima, Tooru; Oku, Masuo; Kawashima, Tooru; and Kudo, Yoshimichi, 4,669,072, Cl. 369-44.000.

Miura, Yoshio; and Fukui, Yukio, 4,689,778, Cl. 369-32.000.

Miyajima, Goh, 4,644,313, Cl. 335-296.000.

Miyakawa, Nobuaki; Yazawa, Yoshiaki; Ozeki, Shoichi; and Mitsumoto, Kinya, 4,665,505, Cl. 365-177.000.

Miyauchi, Tateoki; Yamaguchi, Hiroshi; Hongo, Mikio; Mizukoshi, Katsuro; Shimase, Akira; and Satoh, Ryohei, 4,687,939, Cl. 250-492.200.

Miyazawa, Hideo; Endo, Shokichi; and Nishimoto, Hideo, 4,648,346, Cl. 118-500.000.

Mizumoto, Muneo; Inouye, Hiroshi; and Kitsunai, Hiroyuki, 4,708,350, Cl. 277-80.000.

Mizuno, Hirotaka; and Komura, Fuminobu, 4,700,398, Cl. 382-1.000.

Mizuno, Takao; Arata, Tetsuya; Uchikawa, Naoshi; Murayama, Akira; Tamura, Takahiro; and Kuno, Hiroaki, 4,669,962, Cl. 418-55.000.

Mizuno, Takao; Uchikawa, Naoshi; Murayama, Akira; Tamura, Takahiro; and Kuroshima, Ryoichi, 4,714,415, Cl. 418-14.000.

Mochida, Takaaki; Yamashita, Junichi; Yoshioka, Toshiro; and Ozawa, Michihiro, 4,683,113, Cl. 376-419.000.

Mohri, Shunji, 4,712,189, Cl. 364-900.000.

Momata, Kazuhiro; Dekura, Yoshinori; Honzawa, Tadashi; and Matsushige, Hiromi, 4,695,909, Cl. 360-122.000.

Moniwa, Masahiro; Warabisako, Terunori; and Sunami, Hideo, 4,692,994, Cl. 437-40.000.

Mori, Hideharu; Koyama, Shozi; and Yamazaki, Masahiro, 4,696,689, Cl. 62-32.000.

Mori, Kazuhide; Tamata, Shin; and Kikuchi, Makoto, 4,671,897, Cl. 252-628.000.

Mori, Kinji; Miyamoto, Shoji; and Ihara, Hirokazu, 4,672,373, Cl. 340-825.050.

Mori, Kinji; Miyamoto, Shoji; and Ihara, Hirokazu, 4,698,629, Cl. 340-825.050.

Mori, Sadao; and Akatsu, Toshio, 4,708,481, Cl. 356-358.000.

Mori, Takanobu; Fukui, Yutaka; Kashimura, Tetsuo; and Yanai, Yoshimi, 4,642,495, Cl. 310-52.000.

Mori, Tohru; Kohashi, Makoto; and Ariki, Yoshio, 4,653,103, Cl. 381-99.000.

Moribe, Yoshihiro; Hayashi, Yukitaka; Maekawa, Hideo; and Tsukui, Kunitsugu, 4,639,804, Cl. 360-105.000.

Morinaga, Shigeki; Miyashita, Kunio; Hayashida, Hiroshi; and Takahashi, Tadashi, 4,638,225, Cl. 318-341.000.

Morishita, Koichi; Omori, Shinji; Yamagata, Shimbu; Yokoyama, Tetsuo; Sano, Koichi; and Ogushi, Akira, 4,644,582, Cl. 382-6.000.

Morita, Kazuo, 4,677,311, Cl. 307-66.000.

Morita, Kiyomi; Kashiwaya, Mineo; and Sakamoto, Masahide, 4,644,923, Cl. 123-493.000.

Morita, Koyo; Nomura, Keizo; Nishizuka, Hiroshi; Hoshi, Tai; Tamiya, Yoichiro; and Asakawa, Terushige, 4,701,608, Cl. 250-205.000.

Morita, Yasukazu, 4,694,217, Cl. 313-468.000.

Mouri, Yasunori; and Sugiura, Noboru, 4,710,881, Cl. 364-431.080.

Mukaemachi, Takuji; Shirasu, Hirotoshi; and Suzuki, Taihei, 4,663,759, Cl. 370-110.200.

Munakata, Chusuke; Yagi, Kunihiro; Miyazaki, Masaru; and Yoneda, Shiyouzou, 4,672,578, Cl. 365-118.000.

Murai, Masami; Hashio, Masanori; Tsuyuki, Yousuke; and Kaneko, Tsutomu, 4,675,814, Cl. 364-300.000.

Murakami, Gen; and Gappa, Takeshi, 4,691,225, Cl. 357-80.000.

Murakami, Susumu; Kagami, Teruyuki; Yatsuo, Tsutomu; and Takahashi, Masaaki, 4,691,223, Cl. 357-51.000.

Murakami, Toshio, 4,680,624, Cl. 358-44.000.

Murakami, Toshiyuki; Sugimoto, Norihiko; and Ogawa, Naoki, 4,680,757, Cl. 370-89.000.

Muramatsu, Shinichi; Shimada, Toshikazu; Matsubara, Sunao; Itoh, Haruo; and Nakamura, Nobuo, 4,642,412, Cl. 136-244.000.

Muraoka, Koji; Maeda, Takeshi; Takasago, Masahiro; and Kaneda, Tokuya, 4,650,332, Cl. 356-374.000.

Murata, Toshinori; Nakagaki, Nobufumi; and Matono, Takaaki, 4,677,485, Cl. 358-160.000.

Murayama, Akira; Kuno, Hiroaki; Uchikawa, Naoshi; Tamura, Takahiro; Mizuno, Takao; Aiba, Kazumi; Ikeda, Mitsuo; and Fukatsu, Kiyoshi, 4,690,625, Cl. 418-55.000.

Murayama, Seiichi; Tsujii, Kanji; and Yajima, Yusuke, 4,678,536, Cl. 156-635.000.

Muroi, Katsumi; Hiratsuka, Kosai; Yoshinaga, Shoji; Nakatsui, Toji; Oda, Chikao; and Fujiwara, Kiyoshi, 4,698,142, Cl. 204-182.300.

Muroya, Hideki; and Sirakawa, Toraichi, 4,652,934, Cl. 358-260.000.

Mutoh, Nobuyoshi; Sakai, Keijiro; Suzuki, Toshio; Ueda, Akiteru; Nandoh, Kenji; and Okajima, Ikuo, 4,688,162, Cl. 363-80.000.

Nagae, Yoshiharu; Numata, Shunichi; Kinjo, Noriyuki; and Funahata, Katuyuki, 4,641,924, Cl. 350-339.00R.

Nagafuji, Motonobu, 4,677,582, Cl. 364-749.000.

Nagahama, Toshiyuki; Suzuki, Hisashi; and Yamamoto, Akira, 4,658,525, Cl. 40-564.000.

Nagai, Makoto; Horiuchi, Isamu; Hanada, Masamichi; Kuroda, Sigeaki; Hayashi, Masakatsu; Ohishi, Yasuro; Mori, Yutaka; Maeda, Eiji; Kasukabe, Kimito; Tsujita, Yuji; Etou, Hironori; Kikuchi, Katsuaki; and Itagaki, Masato, 4,647,271, Cl. 416-186.00R.

Nagano, Masami, 4,662,340, Cl. 123-492.000.

Nagasawa, Kiyoshi; Inoue, Toru; and Kashiwazaki, Susumu, 4,712,050, Cl. 318-254.000.

Nagura, Osamu, 4,652,807, Cl. 318-778.000.

Naka, Hiroshi; Seko, Ichiro; Kobayashi, Shuji; and Haneda, Makoto, 4,701,927, Cl. 372-46.000.

Nakagaki, Harushige; Iso, Yoshimi; and Inoue, Shigeki, 4,682,314, Cl. 369-44.000.

Nakagaki, Nobuhumi; Murata, Toshinori; and Kurita, Toshiyuki, 4,684,985, Cl. 358-140.000.

Nakagawa, Isao; Yamamoto, Akihiro; Hirose, Koichi; Oka Yoshinori; and Kudo, Mitsuru, 4,634,995, Cl. 330-261.000.

Nakagome, Yoshinobu; Aoki, Masakazu; Horiguchi, Masa Shimohigashi, Katsuhiro; and Ikenaga, Shinichi, 4,709,350, C 365-45.000.

Nakajima, Hiroyasu, 4,649,448, Cl. 360-122.000.

Nakamura, Hiro; Ohkawa, Shuji; Ohtsuka, Yasuo; Tachika Hajime; and Shinozaki, Toshiya, 4,712,970, Cl. 414-730.000.

Nakamura, Hitoshi; Shiiki, Kasuo; Yuito, Isamu; Shiroishi, Yoshihiro; Fujiwara, Hideo; Shinagawa, Kiminari; and Iiji Akemi, 4,636,897, Cl. 360-119.000.

Nakamura, Ichiro, 4,638,718, Cl. 91-178.000.

Nakamura, Ichiro, 4,667,569, Cl. 91-417.00R.

Nakamura, Ichiro; Kobayashi, Satoshi; and Sasaki, Eic 4,715,478, Cl. 187-111.000.

Nakamura, Katsunori; Kurano, Akira; Shiroyanagi, Yoshiro; an Kishiro, Shigeru, 4,688,221, Cl. 371-13.000.

Nakamura, Kazunori; Yamaga, Mitsuhiro; Yoshino, Ryozo; an Sugimoto, Norihiko, 4,675,884, Cl. 375-87.000.

Nakamura, Kiyoshi; Isaka, Masayoshi; and Uchiyama, Toyoha 4,689,530, Cl. 318-135.000.

Nakamura, Koozoo; Hamada, Nagaharu; Tadauchi, Masaha Kozima, Yasuyuki; Suemori, Noboru; and Kouno, Taka 4,694,351, Cl. 358-256.000.

Nakamura, Kozoo; Kozima, Yasuyuki; Hamada, Nagaharu; an Sakata, Kunihiro, 4,713,699, Cl. 358-296.000.

Nakamura, Shigeki; Ohnishi, Makoto; and Takahashi, Yasuh 4,680,556, Cl. 332-16.00R.

Nakamura, Shin; Hikino, Keiji; Kaji, Shinichi; and Koma Tsunetoshi, 4,638,573, Cl. 34-82.000.

Nakamura, Yoichi; Yamamoto, Akio; Kurita, Goro; Tomi Jinichi; and Kuge, Toshio, 4,668,244, Cl. 44-1.00F.

Nakanishi, Keiichirou; Yamada, Minoru; Masaki, Akira; Iz Kuninori; and Chiba, Katuaki, 4,644,385, Cl. 357-82.000.

Nakano, Hiraku, 4,707,798, Cl. 364-765.000.

Nakanori, Takayuki; Kimura, Tomoaki; and Nishino, Tadash 4,702,300, Cl. 164-154.000.

Nakata, Kazuo; and Miyamoto, Takanori, 4,653,098, Cl. 381-49.0

Nakato, Hakaru; Bessho, Nagayasu; Nozaki, Tsutomu; Hara Yasuhiro; and Kimura, Tomoaki, 4,635,703, Cl. 164-443.000.

Nakato, Hakaru; Nozaki, Tsutomu; Kinoshita, Katsuo; Hara Yasuhiro; Ohnuma, Hiroaki; Ohmiya, Shigeru; and Kimura Tomoaki, 4,673,024, Cl. 164-431.000.

Nakaya, Chitose; Takeuchi, Hiroshi; and Katakura, Kageyo 4,658,176, Cl. 310-334.000.

Nakayama, Wataru; Hirasawa, Shigeki; and Nakajima, Tadaka 4,694,378, Cl. 361-385.000.

Nakayama, Yoshihiko; and Miyatake, Teruyoshi, 4,658,643, C 73-119.00R.

Nakayashiki, Susumu; Kashio, Jiro; and Harakawa, Take 4,672,607, Cl. 370-88.000.

Nakazato, Shinji; Uchida, Hideaki; Tanba, Nobuo; Goto Nobuyuki; Onozawa, Kazunori; and Hiraishi, Atsushi, 4,672,4 Cl. 357-46.000.

Nakazawa, Hayashi; Nakao, Shouichi; Saito, Cyuichi; an Kawagoshi, Makoto, 4,674,619, Cl. 198-331.000.

Nihei, Masayasu; Suwa, Masateru; and Chigasaki, Mitsu 4,692,230, Cl. 204-192.310.

Nihei, Mitsuo; and Kimura, Tomoaki, 4,651,550, Cl. 72-183.000.

Niinomi, Tatsuya; and Kikuchi, Hiroshi, 4,640,663, Cl. 414-730.0

Ninomiya, Hisakazu; Tomita, Hiroyuki; Mochizuki, Jyun; an Nakagawa, Kazuyuki, 4,656,401, Cl. 318-329.000.

Ninomiya, Takanori; Nakagawa, Yasuo; and Saito, Keij 4,654,583, Cl. 324-73.0PC.

Nishi, Tomoya; Amari, Mitsuhiro; and Suzuki, Kenji, 4,707,15 C 400-121.000.

Nishida, Hiroshi; Yamamoto, Fujio; Higashi, Mikio; and Naras Jun, 4,677,509, Cl. 360-97.000.

Nishida, Takao; Hiyama, Toru; Moriwaki, Kaoru; Ishiyama, Sh and Miyamoto, Shunsuke, 4,703,257, Cl. 324-73.00R.

Nishida, Yoshie; Hata, Seiji; and Miyakawa, Akira, 4,680,802, C 382-8.000.

Nishijima, Hideo; Ito, Takayasu; and Fukushima, Isao, 4,682,0 Cl. 318-808.000.

Nishijima, Hideo; Okamoto, Kaneyuki; Ito, Takayasu; and Toy shima, Shuji, 4,707,749, Cl. 360-14.300.

Nishimura, Kazuyoshi; Tabushi, Kenji; Nishino, Tadashi; an Kimura, Tomoaki, 4,655,166, Cl. 118-673.000.

Nishimura, Keizo; Kobayashi, Masaharu; Okamoto, Hiroo; Noguchi, Takaharu; Arai, Takao; and Shibuya, Toshifumi, 4,649,5 Cl. 371-39.000.

Nishimura, Ryuji; Kato, Minoru; Noda, Masaru; and Imaide, Tokuya, 4,714,955, Cl. 358-48.000.

Nishimura, Yutaka; and Oyama, Yoshishige, 4,709,581, C 73-202.000.

Nishioka, Yasushiro; Homma, Noriyuki; Sakuma, Noriyuki; an Mukai, Kiichiro, 4,636,833, Cl. 357-71.000.

Nishiyama, Nobumasa; Aoi, Hajime; Tamura, Takashi; Och Yasuhide; and Saitou, Makoto, 4,644,424, Cl. 360-65.000.

Nishiyama, Takaaki; and Hashimoto, Masahiro, 4,654,785, C 364-200.000.

Nishizawa, Masahiro; Miura, Kiyoshi; Sasaya, Osamu; and Oda Yoshiyuki, 4,652,462, Cl. 427-53.100.

Nishizawa, Masahiro; Yokomizo, Hiroshi; Miura, Kiyoshi; an Sasaya, Osamu, 4,657,961, Cl. 524-297.000.

Nitta, Yoshihiko; Okajima, Atsushi; and Yamano, Futayuki, 4,641,264, Cl. 364-900.000.

Noda, Masaru; and Shiga, Toshihiro, 4,638,352, Cl. 358-44.000.

Noda, Masaru; and Kato, Minoru, 4,677,486, Cl. 358-166.000.

Noda, Tsutomu; Shinkawa, Keiro; and Amada, Nobutaka, 4,642,573, Cl. 329-50.000.

Nogami, Taro, 4,715,712, Cl. 356-328.000.

Nohmi, Makoto; Miyamoto, Shoji; Takaoka, Tadashi; and Oshima, Hiroyasu, 4,684,859, Cl. 318-317.000.

Nojiri, Yuukou; Ishizaki, Kosho; Ishida, Giichi; and Inamura, Junshiro, 4,644,232, Cl. 318-66.000.

Nomura, Setsuo; and Isakozawa, Shigeto, 4,680,469, Cl. 250-311.000.

Nomura, Setsuo; Kubozoe, Morioki; and Isakozawa, Shigeto, 4,698,503, Cl. 250-311.000.

Noro, Takanobu; Koakutsu, Yasumasa; Takeuchi, Tamio; Yumi, Masao; Onoda, Seiichi; Arima, Hideo; Yokono, Hitoshi; and Tanei, Hirayoshi, 4,715,673, Cl. 350-96.200.

Noto, Yasuo; and Sugimoto, Shun-ichiro, 4,708,220, Cl. 180-142.000.

Nozawa, Yoshio; Ochiai, Izumi; Kitayama, Yukio; Miyagi, Masahiro; Uehara, Katsuharu; Deguchi, Takahiro; Morita, Keikichi; Arai, Katsuo; and Nakayama, Tamotsu, 4,698,904, Cl. 29-726.000.

Numata, Shun-ichi; Fujisaki, Koji; Kinjo, Noriyuki; Imaizumi, Junichi; and Mikami, Yoshikatsu, 4,690,999, Cl. 528-188.000.

Ochiai, Izumi; and Kurosawa, Hiroshi, 4,689,677, Cl. 343-914.000.

Ogata, Mikito; Mori, Masahito; Doi, Takashi; Miyazaki, Michio; and Oki, Takafumi, 4,638,472, Cl. 369-54.000.

Ogata, Mikito; Mori, Masahito; Doi, Takashi; and Miyazaki, Michio, 4,677,606, Cl. 369-59.000.

Ogawa, Soichiro; and Watanabe, Yoshio, 4,682,080, Cl. 315-209.00R.

Ogawa, Toshio; and Katakura, Kageyoshi, 4,671,115, Cl. 73-626.000.

Ogawa, Toshio; Kondo, Shinichi; Umemura, Shinichiro; and Katakura, Kageyoshi, 4,679,176, Cl. 367-119.000.

Ogiue, Katsumi; Suzuki, Yukio; Masuda, Ikuro; Odaka, Masanori; and Uchida, Hideaki, 4,713,796, Cl. 365-189.000.

Oguni, Kensaku; Ishibane, Kyuhei; Kuroda, Shigeaki; Yasuda, Hiromu; Sano, Takashi; and Etou, Hironori, 4,706,469, Cl. 62-222.000.

Ogura, Setsuo; Kondo, Shizuo; Minamimura, Eiji; and Furihata, Makoto, 4,659,947, Cl. 307-466.000.

Ohashi, Masahisa; and Masuda, Hiroyuki, 4,647,421, Cl. 376-216.000.

Ohishi, Shiro; and Shinozaki, Masatsugu, 4,644,563, Cl. 375-17.000.

Ohki, Masaru; Hirosawa, Toshio; Kurihara, Junichi; and Miyazaki, Katsuto, 4,649,480, Cl. 364-300.000.

Ohmura, Keiji; Kawai, Sueo; Murakami, Yoshimasa; Takeichi, Michifumi; and Okazaki, Masato, 4,655,258, Cl. 296-204.000.

Ohnari, Mikihiko; Funabashi, Motohisa; Shiowa, Makoto; Sekozawa, Teruji; and Shida, Masami, 4,697,566, Cl. 123-479.000.

Ohno, Nobuhiko; Ogiue, Katsumi; Mizue, Katsuya; and Okuda, Noriyoshi, 4,656,606, Cl. 365-104.000.

Ohno, Yasunori; Kurosawa, Tomoe; Sato, Tadashi; Kurosawa, Yukio; and Hakamata, Yoshimi, 4,713,585, Cl. 315-111.810.

Ohno, Yasunori; Kurosawa, Tomoe; Sato, Tadashi; and Ohshita, Youichi, 4,716,491, Cl. 361-230.000.

Ohnuki, Nobutaka; Ojima, Masahiro; Arimoto, Akira; and Chinone, Naoki, 4,712,218, Cl. 372-38.000.

Ohta, Jiro, 4,639,190, Cl. 415-129.000.

Ohta, Norio; Okamine, Shigenori; Sugita, Yutaka; Seo, Yosuke; and Tamura, Takashi, 4,707,755, Cl. 360-114.000.

Ohtaka, Tadashi; Nakaizumi, Yasushi; and Kuroda, Katsuhiro, 4,658,136, Cl. 250-310.000.

Ohtaka, Tadashi, 4,705,950, Cl. 250-441.100.

Ohtsuki, Toru; Oshima, Yoshio; Ishikawa, Sako; Yabe, Hideaki; and Fukuta, Masaharu, 4,677,583, Cl. 364-756.000.

Ohura, Masaki; and Saito, Makoto, 4,636,901, Cl. 360-126.000.

Ohyauchi, Hideo; Amano, Yoshiaki; and Yokoyama, Eiji, 4,693,945, Cl. 429-21.000.

Oikawa, Shoji; Yamagishi, Hiroshi; Saito, Shigeru; Fujita, Tsuyoshi; and Watanabe, Takayoshi, 4,713,494, Cl. 174-68.500.

Oishi, Kanji; and Shinoda, Takashi, 4,680,737, Cl. 365-222.000.

Ojima, Masahiro; Saito, Atsushi; and Kato, Tsuyoshi, 4,672,593, Cl. 369-13.000.

Oka, Hiroyuki; Akasaka, Shinichi; Ohara, Shuichi; Hattori, Shintaroo; Mori, Yasuki; Narahara, Toshikazu; and Matsumoto, Hiroshi, 4,690,858, Cl. 428-216.000.

Okabe, Takahiro; Hayashi, Makoto; Morisuye, Katuhiro; Watanabe, Tomoyuki; Washio, Katsuyoshi; Ogura, Setsuo; Furihata, Makoto; and Kondo, Shizuo, 4,697,102, Cl. 307-454.000.

Okada, Daisuke; Uchida, Akihisa; Takakura, Toshihiko; Nakashima, Shinji; Ohno, Nobuhiko; and Ogiue, Katsumi, 4,700,464, Cl. 437-67.000.

Okada, Hideo; Takeuchi, Masato; Okabe, Sigeru; Tobita, Hiroshi; Matsuda, Shimpei; Tamura, Kohki; and Nakajima, Fumito, 4,656,735, Cl. 29-623.100.

Okada, Hideo; Okabe, Sigeru; Iwase, Yoshio; Takeuchi, Masato; and Tamura, Kohki, 4,699,853, Cl. 429-37.000.

Okada, Jun; Kunimasa, Koichi; and Nakase, Hiroshi, 4,638,477, Cl. 370-94.000.

Okada, Kenichi; Asao, Hiroshi; and Yonemura, Hideo, 4,676,088, Cl. 72-342.000.

Okada, Takashi; and Mohri, Shunji, 4,670,849, Cl. 364-513.000.

Okada, Yoshinori; Fukushima, Isao; Miura, Kuniaki; and Kano, Kenji, 4,667,120, Cl. 307-521.000.

Okada, Yoshinori; Watanabe, Hisaji; Fukushima, Isao; and Yoshida, Hideo, 4,672,468, Cl. 358-310.000.

Okamoto, Eri; and Okajima, Atsushi, 4,661,924, Cl. 364-900.000.

Okamoto, Hiroo; Kobayashi, Masaharu; Kimura, Hiroyuki; Noguchi, Takaharu; and Arai, Takao, 4,646,301, Cl. 371-37.000.

Okamoto, Hiroo; and Kobayashi, Masaharu, 4,660,200, Cl. 371-37.000.

Okamoto, Hiroo; Kobayashi, Masaharu; Nishimura, Keizo; Noguchi, Takaharu; Arai, Takao; and Shibuya, Toshifumi, 4,677,622, Cl. 371-39.000.

Okamoto, Hiroo; Arai, Takao; and Hoshino, Takashi, 4,682,152, Cl. 340-347.0DD.

Okamoto, Hiroo; Kobayashi, Masaharu; Noguchi, Takaharu; and Arai, Takao, 4,682,332, Cl. 371-38.000.

Okamoto, Hiroo; and Kobayashi, Masaharu, 4,704,640, Cl. 360-32.000.

Okamoto, Isao; Hiraishi, Motomi; Takai, Hideo; Kasai, Kenjiro; and Terada, Katsuyuki, 4,715,289, Cl. 105-199.200.

Okamoto, Tadashi; Shimoyama, Kazuhiko; Yamaoka, Hiromasa; and Takakura, Mitsuro, 4,694,419, Cl. 364-900.000.

Okamoto, Yukio; and Shinada, Shinichi, 4,692,666, Cl. 315-169.400.

Okamura, Hisanori; Akiyama, Hirosi; Kamoshita, Mutuo; and Miyazaki, Kunio, 4,636,434, Cl. 428-328.000.

Okamura, Hisanori; Miyazaki, Kunio; Akiyama, Hirosi; Itoh, Shinichi; Yasuda, Tomio; Nakamura, Kousuke; Okoshi, Yukio; Kamoshita, Mutuo; and Chiba, Akio, 4,690,793, Cl. 376-136.000.

Okazaki, Kenichi; Morimoto, Kunio; Sawano, Kazumi; and Aoki, Masami, 4,698,755, Cl. 364-519.000.

Oku, Kentaro; and Fukushima, Masakazu, 4,663,560, Cl. 313-390.000.

Oku, Kentaro; Fukushima, Masakazu; Suzuki, Hitomi; and Maruyama, Masanori, 4,701,668, Cl. 315-17.000.

Okudaira, Sadayuki; Nishimatsu, Shigeru; Suzuki, Keizo; Ninomiya, Ken; and Hamazaki, Ryoji, 4,705,595, Cl. 156-643.000.

Okuhira, Hidekazu; and Wada, Yasuo, 4,693,779, Cl. 156-638.000.

Okumura, Masahide; Matsuzaka, Takashi; Matsuoka, Genya; and Saitou, Norio, 4,701,620, Cl. 250-398.000.

Okunaka, Masaaki; Nakatani, Mitsuo; Matsuyama, Haruhiko; Yokono, Hitoshi; Isogai, Tokio; Saitoh, Tadashi; Matsukuma, Kunihiro; Midorikawa, Sumiyuki; and Suzuki, Satoru, 4,643,913, Cl. 427-75.000.

Okuyama, Kousuke; Suzuki, Norio; Meguro, Satoshi; and Nagasawa, Kouichi, 4,637,124, Cl. 29-571.000.

Okuyama, Kousuke; Komori, Kazuhiro; and Katto, Hisao, 4,652,897, Cl. 357-23.500.

Okuyama, Toshiaki; Matsui, Takayuki; Fujimoto, Noboru; and Kubota, Yuzuru, 4,680,526, Cl. 318-802.000.

Omae, Tsutomu; Obara, Sanshiro; Kubo, Kenji; and Watanabe, Masahiko, 4,712,052, Cl. 318-625.000.

Omoda, Koichiro; Nagashima, Shigeo; and Torii, Shunichi, 4,651,274, Cl. 364-200.000.

Omoda, Koichiro; Hamada, Hozumi; and Takahashi, Sakae, 4,675,809, Cl. 364-200.000.

Omoda, Koichiro; and Nagashima, Shigeo, 4,677,547, Cl. 364-200.000.

Omoda, Koichiro; and Nagashima, Shigeo, 4,680,730, Cl. 364-900.000.

Omori, Takashi, 4,651,530, Cl. 60-667.000.

Omote, Tatsuyuki; Yoshida, Tomiharu; Shimizu, Isamu; and Metoki, Kichinori, 4,643,845, Cl. 252-626.000.

Onda, Kenichi; and Abe, Kojin, 4,665,473, Cl. 363-21.000.

Onda, Kenichi; Abe, Kojin; and Ogawa, Tsugio, 4,700,280, Cl. 363-19.000.

Onoda, Yoshimitsu; Yamakoshi, Takato; and Arakawa, Shigeru, 4,649,751, Cl. 73-658.000.

Onoda, Yoshimitsu; and Goko, Hiroshi, 4,690,251, Cl. 187-107.000.

Onodera, Katsushige, 4,690,794, Cl. 376-230.000.

Onozawa, Makoto; Osawa, Michitaka; Maekawa, Hitoshi; and Kito, Koji, 4,707,640, Cl. 315-408.000.

Ookawa, Tomoyuki; and Murayama, Hiroshi, 4,644,491, Cl. 364-784.000.

Ooue, Michio; Wakui, Yoko; and Hachino, Hiroaki, 4,651,191, Cl. 357-71.000.

Orino, Masayuki; Mori, Kinji; and Miyamoto, Shoji, 4,677,615, Cl. 370-89.000.

Orita, Miyahiko; Kobayashi, Yoshiki; and Kubo, Yutaka, 4,658,429, Cl. 382-36.000.

Orita, Miyahiko; Kobayashi, Yoshiki; and Mishima, Tadaaki, 4,682,365, Cl. 382-14.000.

Oshida, Yoshitada; Shiba, Masataka; Nakata, Toshihiko; Koizumi, Mitsuyoshi; and Nakashima, Naoto, 4,668,089, Cl. 356-152.000.

Oshida, Yoshitada; Shiba, Masataka; Nakashima, Naoto; Nakata, Toshihiko; and Uto, Sachio, 4,701,050, Cl. 356-152.000.

Otake, Katsumoto; Miyai, Masahiko; Mukai, Yasuteru; and Okouchi, Isamu, 4,692,253, Cl. 210-791.000.

Ouchi, Yasuhide; Aoi, Hajime; Tamura, Takashi; Nakabayashi, Kazuyoshi; and Uchiyama, Takamasa, 4,651,236, Cl. 360-45.000.

Ozawa, Naoki; Akiyama, Toshiyuki; Satoh, Kazuhiro; Nagahara, Syusaku; and Mimura, Itaru, 4,716,455, Cl. 358-44.000.

Saiki, Atsushi; Suzuki, Michio; Sunami, Hideo; Asai, Shojiro; Maki, Michiyoshi; and Asami, Kinichiro, 4,693,173, Cl. 98-31.500.

Saiki, Eisaku; and Kawauchi, Masataka, 4,709,911, Cl. 271-10.000.

Saito, Shigeaki; Takada, Hiroshi; and Tairaku, Seiichi, 4,644,224, Cl. 313-634.000.

Saito, Atsushi; Ojima, Masahiro; Maeda, Takeshi; and Kato, Tsuyoshi, 4,712,203, Cl. 369-13.000.
Saito, Cyuichi; and Sato, Yoshihiko, 4,666,028, Cl. 198-335.000.
Saito, Susumu; Suzuki, Michio; Suda, Kyo; Yatsugake, Yasuo; and Tsukada, Kazuya, 4,685,802, Cl. 356-339.000.
Saitoh, Masahiko; Seki, Gen; Hayashi, Seiichi; and Orihara, Yasunori, 4,675,756, Cl. 360-71.000.
Saitoh, Takashi; Niizaki, Nobuya; Yamamura, Hideho; and Hayashi, Shinichi, 4,710,654, Cl. 307-601.000.
Saitou, Norio; Ozasa, Susumu; Okamura, Masahide; Ooyama, Mitsuo; Komoda, Tsutomu; Harada, Katsuhiro; Fujinami, Minpei; and Iwadate, Kazumi, 4,692,579, Cl. 250-492.200.
Sakaguchi, Isao; and Kawaide, Tatsuo, 4,696,831, Cl. 427-48.000.
Sakai, Hideo; Mizutani, Tetsuya; and Yoshimi, Takeo, 4,699,825, Cl. 428-337.000.
Sakai, Yoshio; Nagai, Ryo; Yamamoto, Shuichi; Nakamura, Hideo; and Noguchi, Kouki, 4,707,718, Cl. 357-45.000.
Sakaibara, Toru; Tsujioka, Shigeo; Kajiura, Toshinori; Aoshima, Toshihisa; and Tonomura, Motonobu, 4,709,231, Cl. 340-729.000.
Sakakibara, Yasuhiro; Kobayashi, Isamu; and Suzuki, Yoshinori, 4,701,886, Cl. 365-189.000.
Sakamoto, Masahide; and Shida, Masami, 4,708,108, Cl. 123-339.000.
Sakamoto, Masami; Nagumo, Ryoichi; and Ishihara, Tamio, 4,683,480, Cl. 346-134.000.
Sakazume, Akio; Yoshikawa, Hiroki; and Matsushima, Hiroaki, 4,638,643, Cl. 62-209.000.
Sakoda, Kousuke; Kainaga, Masahiro; Akita, Hidehiko; Murata, Fumiya; and Nakaosa, Yoshitake, 4,692,896, Cl. 364-900.000.
Sakurada, Shuroku; and Ikeda, Yasuhiko, 4,682,198, Cl. 357-38.000.
Sakurai, Akio; and Kato, Ryoichi, 4,681,726, Cl. 376-171.000.
Sakurai, Mikio; Nakamura, Shiro; Igarashi, Takao; and Yamauchi, Koki, 4,656,000, Cl. 376-352.000.
Sano, Koichi; Yokoyama, Tetsuo; Yamagata, Shimbu; and Haruna, Koichi, 4,644,278, Cl. 324-309.000.
Sasada, Tetsuo; Sato, Takeshi; Urushidani, Haruo; Hisano, Katsukuni; Kaneko, Ryoichi; Ikeuchi, Kazuo; and Tsuji, Kunio, 4,662,820, Cl. 415-170.00R.
Sasaki, Naoya; Kawauchi, Masataka; Fukudome, Yoshio; Takeda, Fumio; Suzuki, Yoichi; Mirubayashi, Toshio; and Utsumi, Itsunori, 4,653,742, Cl. 271-114.000.
Sasaki, Toshi; Yoshida, Hiromichi; Fukuda, Shigeho; Oizumi, Kiyoshi; Kakizaki, Kimio; Nakayama, Wataru; Daikoku, Takahiro; Nakajima, Tadakatsu; and Nakayama, Yoshihiko, 4,678,029, Cl. 165-133.000.
Sasaki, Toshiro; Kosaka, Michitaka; Mohri, Satoshi; Kawano, Katsumi; and Miyamoto, Shoji, 4,680,718, Cl. 364-455.000.
Sasaki, Yukio; Nishimura, Kotaro; and Minato, Osamu, 4,641,285, Cl. 365-210.000.
Sasayama, Takao; Oho, Shigeru; Kanke, Atsushi; Shibata, Takanori; and Endo, Akira, 4,708,480, Cl. 356-350.000.
Sase, Akira; Nagata, Takeo; Fukunaga, Masao; Sakurai, Yutaka; and Satomi, Yoshikatsu, deceased, 4,680,627, Cl. 358-101.000.
Sato, Ichiya; Yoneyama, Takao; Tanabe, Masanori; Kawakami, Kanji; Okada, Hisao; Sasaki, Soji; Inose, Shigeru; Suto, Mareo; and Uzuhashi, Hideo, 4,665,282, Cl. 178-18.000.
Sato, Ichiya; and Yoneyama, Takao, 4,669,315, Cl. 73-660.000.
Sato, Isao; Ishibashi, Yoji; Tamura, Zensuke; Ohmori, Takashi; Minakawa, Yoshimitsu; Fujimura, Hidekazu; and Uchiyama, Yoshihiro, 4,671,069, Cl. 60-737.000.
Sato, Kanemasa; Ueno, Sadayasu; and Ichikawa, Norio, 4,657,660, Cl. 204-427.000.
Sato, Katsuyuki, 4,653,029, Cl. 365-205.000.
Sato, Kazuhiro; Achiha, Masahiro; and Nagahara, Shusaku, 4,677,621, Cl. 371-30.000.
Sato, Kazuo; Shiohata, Kouki; Matsushita, Osami; Kikuchi, Katsuaki; Takasumi, Masakazu; Sato, Ichiya; and Kaneko, Ryoichi, 4,685,335, Cl. 73-660.000.
Sato, Masahiko; Kato, Kazutoshi; Ishibashi, Akira; and Matsushita, Tsurumasa, 4,691,154, Cl. 318-696.000.
Sato, Naoki; Kamo, Yoshihisa; Katoh, Yasuhiro; Kosuge, Minoru; and Arai, Shinichi, 4,716,306, Cl. 307-296.00R.
Sato, Nobuyuki; Ujiie, Kazuaki; Terasawa, Masaaki; and Nabetani, Shinji, 4,692,904, Cl. 365-226.000.
Satoh, Ryohei; Oshima, Muneo; Tanaka, Minoru; Sakaguchi, Suguru; Murata, Akira; and Hirota, Kazuo, 4,673,772, Cl. 174-52.0FP.
Satou, Kazuhiro; Kudo, Koji; Maruyama, Masanori; Mimura, Itaru; and Nagahara, Shusaku, 4,701,679, Cl. 315-383.000.
Sawada, Yasushi; Ueyanagi, Kiichi; Katayama, Yoshifumi; Shiraki, Yasuhiro; Morioka, Makoto; Kuroda, Takao; and Mishima, Tomoyoshi, 4,672,406, Cl. 357-22.000.
Sawai, Masaaki; Kobayashi, Masamichi; Hayashi, Shoji; Naka, Hiroshi; and Ichiki, Masahiro, 4,692,927, Cl. 372-46.000.
Sayo, Kosaku; Tani, Seijiro; Miyamoto, Seigo; Emi, Kenji; and Fukushima, Toshihiko, 4,653,288, Cl. 62-210.000.
Seki, Gen; Hayashi, Seiichi; Kaito, Haruyuki; and Tatsumi, Akira, 4,658,315, Cl. 360-104.000.
Seki, Kiwao, 4,674,880, Cl. 356-328.000.
Sekihara, Kensuke; Yamamoto, Etsuji; Matsui, Shigeru; and Kohno, Hideki, 4,672,318, Cl. 324-307.000.
Sekihara, Kensuke; Kuroda, Masao; and Kohno, Hideki, 4,672,320, Cl. 324-312.000.
Sekihara, Kensuke; Matsui, Shigeru; Kohno, Hideki; Yamamoto, Etsuji; and Shiono, Hidemi, 4,716,369, Cl. 324-309.000.
Sekino, Mituru; Hiroshima, Minoru; and Yanai, Masa 4,689,769, Cl. 365-15.000.
Sekizawa, Sadao; Seki, Toshio; and Takahashi, Tadashi, 4,6 Cl. 360-113.000.
Sekozawa, Teruji; Funabashi, Motohisa; Shioya, Makoto; Oz Michihiko; and Tokuda, Hiroatsu, 4,667,640, Cl. 123-492.00
Seto, Youichi; Homma, Koichi; Komura, Fuminobu; Yamaga Shimbu; Kubo, Yutaka; and Mizuno, Hirotaka, 4,682,30 C 364-571.000.
Seto, Youichi; Homma, Koichi; Komura, Fuminobu; and O Hideo, 4,695,964, Cl. 364-518.000.
Setoyama, Eiji; Arimatsu, Keiji; and Ohshita, Youichi, 4,671,4 Cl. 204-298.000.
Shiba, Masataka; Uto, Sachio; and Koizumi, Mitsuyoshi, 4,669 Cl. 356-237.000.
Shibashita, Naoaki; Toriya, Hajime; Shimomura, Kiyoshi; U shidani, Haruo; and Kaneko, Ryoichi, 4,688,385, Cl. 60-646.0
Shibata, Akira; Kondo, Kazuo; and Hirose, Koichi, 4,689,57 C 330-257.000.
Shibata, Manabu; and Uragami, Akira, 4,683,384, Cl. 307-475.0
Shibata, Nobuo; Hirai, Akira; Nakajima, Jun; Mori, Kenji; a Akatsu, Toshio, 4,667,082, Cl. 219-124.340.
Shibayashi, Masao, 4,648,814, Cl. 418-55.000.
Shibayashi, Masao, 4,676,075, Cl. 62-469.000.
Shibayashi, Masao; and Murayama, Akira, 4,696,629, C 418-55.000.
Shiki, Kazuo; Shiroishi, Yoshihiro; Yuito, Isamu; Shinagaw Kaminari; and Fujiwara, Hideo, 4,651,248, Cl. 360-119.000.
Shikamori, Tamotsu; Toshimitsu, Hiroyuki; Ohsugi, Hiro Hiyama, Isao; and Fukuzawa, Soichi, 4,691,538, Cl. 68-12.00
Shimada, Satoshi; Kawakami, Kanji; Tadauchi, Masaharu; a Nishihara, Motohisa, 4,689,652, Cl. 357-30.000.
Shimaguchi, Takashi; Natori, Tatsuo; Watanabe, Akihide; a Koike, Keiichi, 4,659,526, Cl. 264-86.000.
Shimase, Akira; Yamaguchi, Hiroshi; Haraichi, Satoshi; and Miy chi, Tateoki, 4,683,378, Cl. 250-492.200.
Shimizu, Isao, 4,639,757, Cl. 357-36.000.
Shimizu, Isao; and Hoya, Kazuo, 4,672,411, Cl. 357-26.000.
Shimizu, Ryuichi; Mori, Yasuki; Kawanishi, Tsuneaki; Is Osamu; Morishita, Hirosada; and Hosoda, Tooru, 4,680,05 C 106-23.000.
Shimizu, Shinji; Komori, Kazuhiro; Kosa, Yasunobu; and Sugi June, 4,651,406, Cl. 29-571.000.
Shimizu, Shinji, 4,663,644, Cl. 357-23.140.
Shimohigashi, Katsuhiro; Masuda, Hiroo; Ikuzaki, Kunihiko; a Kawamoto, Hiroshi, 4,646,267, Cl. 365-189.000.
Shimohigashi, Katsuhiro; Kubo, Masaharu; Miyauchi, Katsu Masuhara, Toshiaki; and Minato, Osamu, 4,672,586, C 365-229.000.
Shimohigashi, Katsuhiro; Masuda, Hiroo; Ikuzaki, Kunihiko; a Kawamoto, Hiroshi, 4,709,353, Cl. 365-205.000.
Shinmei, Katsumasa; and Niikura, Kazuo, 4,708,594, Cl. 417-53.0
Shinoda, Takashi; and Sakai, Osamu, 4,703,453, Cl. 365-104.00
Shinohara, Hiroichi; Ushifusa, Nobuyuki; Nagayama, Kousei; a Ogihara, Satoru, 4,672,152, Cl. 174-68.500.
Shiohata, Kouki; Satoh, Kazuo; Ohmori, Motoji; Kikuchi, Ka suaki; and Kaneko, Ryoichi, 4,635,210, Cl. 364-508.000.
Shiomi, Makoto; Miura, Kuniaki; Fukushima, Isao; Moro, Eiji; a Kanenari, Shigeaki, 4,667,168, Cl. 331-1.00R.
Shioya, Makoto; Sekozawa, Teruji; Funabashi, Motohisa; Ishi Masahiro; and Tokuda, Hiroatsu, 4,674,028, Cl. 364-148.00
Shiozaki, Kenichi; Kishi, Makoto; Yanagita, Tomoatsu; and Ku Kanji, 4,658,356, Cl. 364-200.000.
Shiozaki, Kenichi; and Kubo, Kanji, 4,683,533, Cl. 364-200.00
Shirai, Shoji; Noda, Fumio; Iidaka, Yoshiaki; Yamauchi, Masa and Fukushima, Masakazu, 4,672,261, Cl. 313-414.000.
Shirakawa, Shingo; Maruyama, Seiichi; Nakano, Seizo; Okamo Eiichi; and Kohara, Kenji, 4,675,773, Cl. 361-63.000.
Shiraki, Makoto; Yoshida, Masashi; and Matsuno, Jyunich 4,667,208, Cl. 346-76.0PH.
Shiraki, Yasuhiro; Katayama, Yoshifumi; Murayama, Yoshimasa Morioka, Makoto; Sawada, Yasushi; Mishima, Tomoyosh Kuroda, Takao; and Maruyama, Eiichi, 4,673,959, Cl. 357-22.00
Shirasawa, Toshikatsu; and Hosokawa, Yoshikazu, 4,654,691, C 357-53.000.
Shoji, Moritaka; Yamazaki, Takeo; and Ogihara, Satoru, 4,692,7 Cl. 338-21.000.
Shojima, Hiroshi; Kuzunuki, Soshiro; and Hirasawa, Kotaro 4,653,107, Cl. 382-13.000.
Shukuri, Shoji; Tamura, Masao; Wada, Yasuo; and Fujisaki, Yoshihisa, 4,716,127, Cl. 437-27.000.
Sikanai, Naoki, 4,676,677, Cl. 400-121.000.
Soda, Yasunari; Mochiji, Kozo; Kimura, Takeshi; and Obayashi, Hidehito, 4,701,940, Cl. 378-34.000.
Sohma, Ken-ichi; Arashi, Norio; Azuhata, Shigeru; Narato, Kiyoshi; Inada, Tooru; Kobayashi, Hironobu; Ohtsuka, Keizou; and Hishinuma, Yukio, 4,653,998, Cl. 431-79.000.
Sonoda, Shinji; Ozaki, Norihiko; Watanuki, Seishi; Sakuma, Yasu and Yamaguchi, Masayoshi, 4,644,791, Cl. 73-432.100.
Sugano, Akira; and Yamanobe, Sachio, 4,653,276, Cl. 60-665.00
Sugawara, Tooru; Tsuchitani, Shigeki; Kinjo, Noriyuki; and Ohara Shuichi, 4,642,601, Cl. 338-35.000.
Sugimoto, Norihiko; Inada, Shunji; and Usami, Nagatoshi 4,680,756, Cl. 370-88.000.
Sugiyama, Hisataka; Shigematsu, Kazuo; Maeda, Takeshi; Saitoh Atsushi; and Takasugi, Wasao, 4,646,103, Cl. 346-1.100.

Sugiyama, Masahiko; Sutou, Masatune; Murata, Mitsuru; Ooki, Minoru; and Tagawa, Shigetaro, 4,636,154, Cl. 418-97.000.

Sugiyama, Shuji; Syohda, Shuji; and Kuniyoshi, Shinji, 4,690,529, Cl. 353-122.000.

Sumida, Takashi; Sasaki, Sigeo; Ketori, Takao; Fujita, Kazuhiro; and Ogiro, Kenji, 4,660,784, Cl. 242-198.000.

Sumiyoshi, Takashi, 4,652,940, Cl. 360-5.000.

Sunami, Hideo; Masuda, Hiroo; Kamigaki, Yoshiaki; Shimohigashi, Katsuhiro; and Takeda, Eiji, 4,656,492, Cl. 357-23.300.

Sunami, Hideo; Ohkura, Makoto; and Kimura, Shinichiro, 4,670,768, Cl. 357-42.000.

Sunamo, Narimasa; Asahi, Naotatsu; and Yoshida, Toshio, 4,713,646, Cl. 338-34.000.

Suzaki, Masafumi; Mikami, Katsumasa; Nagano, Yousuke; and Kitagishi, Tomoji, 4,641,149, Cl. 346-76.0PH.

Suzuki, Akira; Tanaka, Hideki; and Murakami, Gen, 4,707,724, Cl. 357-71.000.

Suzuki, Akira, 4,708,599, Cl. 417-295.000.

Suzuki, Hideo; Kokura, Satoshi; Asai, Osamu; and Miyazaki, Kunio, 4,663,649, Cl. 357-67.000.

Suzuki, Kunio; Onuma, Kunihiko; and Masui, Koji, 4,658,376, Cl. 365-1.000.

Suzuki, Masanori; Ichikawa, Yoshiaki; Iwatsuka, Nobuyoshi; and Ozaki, Norihiko, 4,662,814, Cl. 414-730.000.

Suzuki, Masato; Narita, Hiroshi; Okamatsu, Shigetoshi; and Abe, Kingo, 4,675,799, Cl. 363-58.000.

Suzuki, Seiko; Sasayama, Takao; and Miki, Masayuki, 4,664,773, Cl. 204-406.000.

Suzuki, Tadashi; Koizumi, Hideo; Takeyama, Jun; and Tsukui, Kunitsugu, 4,671,696, Cl. 403-265.000.

Suzuki, Toshiro; and Matsubara, Osamu, 4,642,552, Cl. 323-315.000.

Suzuki, Toshiro; Fujii, Fumiaki; and Yamada, Izuru, 4,707,654, Cl. 324-158.00R.

Suzuki, Yasunaga; Matsubara, Toshiaki; and Uragami, Akira, 4,710,842, Cl. 361-88.000.

Suzuki, Yoshihiro; Satoh, Nobuhiro; Wajima, Motoyo; Narahara, Toshikazu; and Shimazaki, Takeshi, 4,661,417, Cl. 428-607.000.

Suzuki, Yukio; Masuda, Ikuro; Iwamura, Masahiro; Kadono, Shinji; Uragami, Akira; Yoshimura, Masayoshi; and Matsubara, Toshiaki, 4,689,503, Cl. 307-446.000.

Suzuyama, Hiroshi; and Sakaguchi, Minoru, 4,651,255, Cl. 361-341.000.

Tabata, Kuniaki; Machida, Tetsuo; and Ohya, Kazuaki, 4,658,349, Cl. 364-200.000.

Tabata, Kuniaki; and Tsuhara, Susumu, 4,716,404, Cl. 340-723.000.

Tachiki, Shigeo; Shibuya, Ikutoshi; Fujikura, Makoto; and Kakuta, Atsushi, 4,657,834, Cl. 430-58.000.

Tadauchi, Masaharu; Inuzuka, Tatsuki; Hirane, Hideo; and Sato, Kunio, 4,654,677, Cl. 346-153.100.

Tajima, Atsushi; Suzuki, Nobuo; and Kuse, Tsutomu, 4,634,624, Cl. 428-212.000.

Tajima, Fumio; Katayama, Hiroshi; Miyashita, Kunio; Tamura, Teizo; Hironaka, Kenichi; Kawano, Takuro; Sekita, Yosimi; Saito, Kouichi; and Tamura, Akira, 4,672,253, Cl. 310-269.000.

Tajima, Taiji; and Higuchi, Shigemitsu, 4,661,754, Cl. 318-696.000.

Tajima, Tetsuo; Miwa, Hiroaki; Sudo, Ryoichi; and Horigome, Shinkichi, 4,668,550, Cl. 428-65.000.

Takahashi, Hatsuo; and Hibino, Junichi, 4,658,313, Cl. 360-98.000.

Takahashi, Hiroaki; Kobayashi, Masaharu; Noguchi, Takaharu; Shibuya, Toshifumi; and Arai, Takao, 4,685,004, Cl. 360-32.000.

Takahashi, Kengo, 4,636,675, Cl. 310-157.000.

Takahashi, Kenichi, 4,692,600, Cl. 235-379.000.

Takahashi, Koji; Kuwahara, Heikichi; Yanagida, Takehiko; Nakayama, Wataru; Oizumi, Kiyoshi; and Sugimoto, Shigeo, 4,715,436, Cl. 165-133.000.

Takahashi, Koji; and Kawashima, Machio, 4,642,527, Cl. 315-368.000.

Takahashi, Tadashi; Miyashita, Kunio; and Kawamata, Syoichi, 4,677,377, Cl. 324-208.000.

Takahashi, Tadashi; Miyashita, Kunio; and Kawamata, Syooichi, 4,694,688, Cl. 73-116.000.

Takahashi, Tadashi; Miyashita, Kunio; and Kawamata, Syooichi, 4,707,695, Cl. 340-870.310.

Takahashi, Tadashi; Miyashita, Kunio; and Kawamata, Syooichi, 4,713,613, Cl. 324-208.000.

Takahashi, Yukio; Hayase, Isao; Amano, Keijirou; Mizukami, Masao; and Ishiguri, Masaaki, 4,711,620, Cl. 418-96.000.

Takaki, Masaoki, 4,683,549, Cl. 364-900.000.

Takano, Yoshiya; Hoshi, Yoshikazu; Abe, Takao; and Tomozaki, Ryozoo, 4,687,425, Cl. 417-462.000.

Takao, Kunihiko; Kawashima, Kenichi; Nakamura, Yozo; and Hayase, Isao, 4,636,148, Cl. 417-286.000.

Takao, Kunihiko; Kawashima, Kenichi; and Nakamura, Yozo, 4,653,991, Cl. 418-82.000.

Takao, Kunihiko; Kawashima, Kenichi; Nakamura, Yozo; and Kishi, Atsuo, 4,702,684, Cl. 418-259.000.

Takasaki, Mitsuhiro; and Murakami, Hiroya, 4,653,365, Cl. 83-50.000.

Takasugi, Wasao; Shinomura, Ryuichi; and Yokozawa, Norio, 4,680,498, Cl. 310-319.000.

Takatori, Hiroshi; Suzuki, Toshiro; and Tomooka, Keiji, 4,658,217, Cl. 328-139.000.

Takatori, Hiroshi; Suzuki, Toshiro; Matsubara, Osamu; and Yamada, Izuru, 4,687,998, Cl. 328-58.000.

Takayama, Shigehiko; Suzuki, Hitomi; Maruyama, Masanori; Fukushima, Masakazu; and Kurashige, Mitsuhiro, 4,713,588, Cl. 315-382.000.

Takayama, Teruo, 4,703,743, Cl. 123-590.000.

Takeda, Seijiro; Ichikawa, Norio; and Tsuruoka, Kazuhiro, 4,670,730, Cl. 338-4.000.

Takeda, Yukio; Iijima, Shiro; Higuchi, Shinsuke; Ohura, Masaki; and Nagaike, Sadanori, 4,639,803, Cl. 360-103.000.

Takemura, Tetsuo; and Gohara, Shinobu, 4,680,752, Cl. 370-63.000.

Takenaka, Takaji; Watanabe, Hideki; and Imada, Haruhiko, 4,706,165, Cl. 361-403.000.

Takeuchi, Hiroshi; Nakaya, Chitose; and Katakura, Kageyoshi, 4,683,396, Cl. 310-358.000.

Takeuchi, Mamoru; Nemoto, Sadao; Suzuki, Shizuo; and Kawai, Juichiro, 4,697,984, Cl. 415-142.000.

Takeuchi, Seizi; Kamo, Tomoichi; Horiba, Tatsuo; Kitami, Kunko; Mori, Toshikatsu; Kahara, Toshiki; Imahashi, Jinichi; Honji, Akio; Takeuchi, Masato; and Tamura, Kohki, 4,643,957, Cl. 429-41.000.

Tamaki, Sigeo, 4,660,518, Cl. 123-328.000.

Tamaki, Yoichi; Kure, Tokuo; Sato, Akira; and Higuchi, Hisayuki, 4,635,090, Cl. 357-50.000.

Tamura, Hifumi; Yamamoto, Shigehiko; Shichi, Hiroyasu; and Ishitani, Toru, 4,687,930, Cl. 250-309.000.

Tamura, Hifumi; and Shichi, Hiroyasu, 4,687,938, Cl. 250-423.00F.

Tani, Tatsuhiro; Nagasawa, Hiroyuki; Tomite, Tosio; Tsubota, Kiyomasa; and Takahashi, Akira, 4,644,201, Cl. 310-51.000.

Taniguchi, Motoya; Kuni, Asahiro; Funatsu, Ryuichi; Kembo, Yukio; and Inagaki, Akira, 4,666,291, Cl. 355-52.000.

Tanimura, Nobuyoshi; and Kawamoto, Hiroshi, 4,660,180, Cl. 365-222.000.

Tanimura, Nobuyoshi; and Yasui, Tokumasa, 4,712,192, Cl. 365-51.000.

Tashiro, Korefumi; Saito, Kunio; Sato, Hiroshi; and Hori, Takamasa, 4,651,317, Cl. 370-86.000.

Tateishi, Hideki; Shimizu, Tamotsu; Aiuchi, Susumu; Iwashita, Katsuhiro; and Nakamura, Hiroshi, 4,675,096, Cl. 204-298.000.

Tatsuno, Kimio; Kataoka, Keiji; and Yonezawa, Seiji, 4,688,880, Cl. 350-3.720.

Tatsuno, Kimio; and Kataoka, Keiji, 4,689,479, Cl. 250-201.000.

Taya, Shunroku; and Kozasa, Susumu, 4,634,931, Cl. 315-111.810.

Taya, Shunroku, 4,703,180, Cl. 250-425.000.

Tenma, Tadashi; Akashi, Kichizo; Konishi, Yozo; and Watase, Hideo, 4,692,876, Cl. 364-513.000.

Teranishi, Katsuya; Ozima, Kazuhira; Saito, Cyuichi; and Ogawa, Hiroyasu, 4,682,681, Cl. 198-333.000.

Terao, Motoyasu; Miyauchi, Yasushi; Shigematsu, Kazuo; and Horigome, Shinkichi, 4,637,976, Cl. 430-523.000.

Terao, Motoyasu; Nishida, Tetsuya; Ohta, Yasuhiro; Horigome, Shinkichi; and Miyauchi, Yasushi, 4,668,573, Cl. 428-336.000.

Terasawa, Yoshio; and Oikawa, Saburo, 4,713,679, Cl. 357-38.000.

Teshima, Tsunehiko, 4,638,379, Cl. 360-19.100.

Tokiguchi, Katsumi; Koike, Hidemi; Sakudo, Noriyuki; Okada, Osami; Ninomiya, Ken; and Ozasa, Susumu, 4,658,143, Cl. 250-423.00R.

Tokunaga, Norikazu; Fukui, Hiroshi; Watanabe, Kouzou; Amano, Hisao; and Sato, Masayoshi, 4,692,643, Cl. 307-584.000.

Tokuyama, Keiichi; Naito, Shotaro; and Masuda, Mitsuhiro, 4,635,034, Cl. 340-52.00F.

Tokuyama, Keiichi; Masuda, Mitsuhiro; Igarashi, Osamu; and Hasegawa, Taiji, 4,700,303, Cl. 364-424.000.

Tomita, Tomoyi; Hiramoto, Sotozi; Okubo, Takesi; Matsuo, Kuniyuki; Ashihara, Hiromoto; Nakamura, Mitsuo; Takahashi, Tsutomu; Fujino, Motoaki; and Hosaka, Kenji, 4,637,134, Cl. 29-741.000.

Tomita, Yoshifumi, 4,681,824, Cl. 430-24.000.

Tomite, Tosio; Tani, Tatsuhiro; and Kobayashi, Hidemitsu, 4,707,630, Cl. 310-154.000.

Tomizawa, Fumio; Tsuchita, Kenji; and Sugiyama, Sakae, 4,655,085, Cl. 73-638.000.

Tomizawa, Fumio; Mizuno, Katsuhiro; Ozaki, Norihiko; and Tsuchita, Kenji, 4,668,976, Cl. 358-27.000.

Tomizawa, Hiroshi; Okada, Masakazu; Yasumoto, Seiichi; Mizokawa, Sadao; Fushimi, Hitoshi; Onuki, Ken; Takahashi, Masahiro; and Hamada, Takuji, 4,704,714, Cl. 370-15.000.

Torii, Shunichi; Nagashima, Shigeo; and Omoda, Koichiro, 4,712,175, Cl. 364-200.000.

Toriyama, Minoru; Kunisada, Hideaki; and Sato, Katsuo, 4,672,524, Cl. 363-56.000.

Tsubota, Shinya, 4,661,867, Cl. 360-96.500.

Tsuhara, Susumu; Tabata, Kuniaki; and Okada, Yasuyuki, 4,692,757, Cl. 340-721.000.

Tsujii, Fumio; Matsuoka, Yoji; Endo, Akira; Takezaki, Jiro; and Shirai, Hiroshi, 4,635,202, Cl. 364-449.000.

Tsujii, Fumio; Matsuoka, Yoji; Shibata, Takanori; Endo, Akira; and Shirai, Hiroshi, 4,679,147, Cl. 364-449.000.

Tsujii, Kanji; Yajima, Yusuke; and Murayama, Seiichi, 4,643,799, Cl. 156-635.000.

Tsunehiro, Takashi; and Tsujioka, Shigeo, 4,642,625, Cl. 340-747.000.

Tsutsui, Yoshio; Nakamura, Kiyoshi; Kimura, Akira; Imai, Hayato; Tamura, Kaoru; and Miura, Shozuchi, 4,700,283, Cl. 363-68.000.

Tsuyoshi, Toshiaki; Yonezawa, Seiji; Kasai, Masuo; and Uno, Motoo, 4,710,909, Cl. 369-46.000.

Tsuzurahara, Mamoru; Baba, Hidetsuyo; and Kitakaze, Seiji, 4,684,845, Cl. 313-341.000.

Uchida, Hideaki; Mitsumoto, Kinya; Yazawa, Yoshiaki; Nakazato, Shinji; and Odaka, Masanori, 4,682,200, Cl. 357-41.000.
Uchida, Minoru, 4,694,169, Cl. 250-296.000.
Uchida, Riichi; Matsubara, Katsumi; and Tsuru, Seiji, 4,664,601, Cl. 417-27.000.
Uchikawa, Sadao; and Aoyama, Motoo, 4,652,427, Cl. 376-447.000.
Uchino, Megumi, 4,680,699, Cl. 364-200.000.
Uchiyama, Kaoru; and Tsutsui, Mitsukuni, 4,672,847, Cl. 73-204.000.
Uchiyama, Kunio; and Nishimukai, Tadahiko, 4,646,271, Cl. 365-49.000.
Udagawa, Tsugio; Akatsu, Toshio; and Hamada, Yasunori, 4,657,997, Cl. 294-86.400.
Ueda, Akihisa, 4,710,928, Cl. 371-16.000.
Ueda, Shigeta; Hombu, Mitsuyuki; Honda, Kazuo; Ueda, Akiteru; Suzuki, Katsunori; and Shima, Seiya, 4,672,520, Cl. 363-37.000.
Ueda, Toshiaki, 4,697,734, Cl. 236-13.000.
Uehara, Keijiro; Higuchi, Hisayuki; and Hayasaka, Akio, 4,640,721, Cl. 148-188.000.
Uehara, Keijiro, 4,675,983, Cl. 29-576.00B.
Uematsu, Ikuo; and Takahashi, Toshio, 4,676,117, Cl. 73-861.170.
Uematsu, Takao; Komatsuzaki, Shigeki; Nakano, Fumio; and Takamura, Tomoe, 4,657,685, Cl. 252-32.500.
Uemura, Kaoru; Ishitani, Tohru; and Tamura, Hifumi, 4,680,507, Cl. 315-111.810.
Ueno, Sadayasu, 4,650,560, Cl. 204-410.000.
Ueno, Tatsuaki; and Inoue, Hajime, 4,691,217, Cl. 357-23.130.
Uetake, Naohito; Kawamura, Fumio; Yusa, Hideo; Kikuchi, Makoto; and Tamata, Shin, 4,648,990, Cl. 252-628.000.
Ueyanagi, Kiichi; Takahashi, Susumu; Usagawa, Toshiyuki; Umemoto, Yasunari; and Tsukada, Toshihisa, 4,685,487, Cl. 357-34.000.
Umeda, Takao; Ooishi, Kazuya; Igawa, Tatsuo; and Hori, Yasuro, 4,712,876, Cl. 350-350.00S.
Umemoto, Masuo; Eto, Yoshizumi; Kanada, Hidehiro; and Rokuda, Morito, 4,700,240, Cl. 360-48.000.
Umemoto, Yasunari; Takahashi, Susumu; and Ono, Yuichi, 4,698,652, Cl. 357-16.000.
Umemura, Shin'ichiro; Takeuchi, Hiroshi; Katakura, Kageyoshi; and Nakaya, Chitose, 4,680,499, Cl. 310-334.000.
Umemura, Shinichiro; Takeuchi, Hiroshi; and Katakura, Kageyoshi, 4,692,654, Cl. 310-334.000.
Umenoto, Masuo; Mita, Seiichi; Izumita, Morishi; Michikawa, Yuuichi; Rokuda, Morito; Katayama, Hitoshi; and Kanada, Hidehiro, 4,670,797, Cl. 358-310.000.
Uotani, Masaki; Yamanaka, Tsuneyasu; and Fukumoto, Wasao, 4,664,876, Cl. 376-290.000.
Ura, Katsumi; Sakka, Kenji; Kouno, Yosimi; and Inui, Taiji, 4,651,533, Cl. 60-678.000.
Urabe, Kiichiro, 4,649,377, Cl. 340-721.000.
Uragami, Akira, 4,645,951, Cl. 307-446.000.
Uragami, Akira; Suzuki, Yukio; Kadono, Shinji; Iwamura, Masahiro; Masuda, Ikuro; and Yamauchi, Tatsumi, 4,678,943, Cl. 307-473.000.
Uragami, Akira; Suzuki, Yukio; Iwamura, Masahiro; and Masuda, Ikuro, 4,694,203, Cl. 307-446.000.
Usagawa, Toshiyuki; Ono, Yuichi; and Takahashi, Susumu, 4,710,787, Cl. 357-16.000.
Uto, Sachio; Shiba, Masataka; and Oshida, Yoshitada, 4,676,637, Cl. 356-237.000.
Wada, Hideo; and Goto, Humio, 4,639,862, Cl. 364-200.000.
Wada, Yasuo; Tamura, Masao; Natsuaki, Nobuyoshi; and Ohyu, Kiyonori, 4,655,875, Cl. 156-643.000.
Wakai, Katsuro, 4,697,267, Cl. 371-25.000.
Wakamori, Fumio; Ohata, Hideo; Miyaoka, Shinichiro; and Funabashi, Motohisa, 4,712,182, Cl. 364-507.000.
Warabisako, Terunori; Ohkura, Makoto; and Miyao, Masanobu, 4,695,856, Cl. 357-4.000.
Washio, Katsuyoshi; Hayashi, Makoto; Watanabe, Tomoyuki; Okabe, Takahiro; and Norisuye, Katuhiro, 4,694,321, Cl. 357-48.000.
Watabe, Masaya; and Abe, Shuichi, 4,638,429, Cl. 364-200.000.
Watanabe, Kazuo; and Sato, Tetsuo, 4,639,795, Cl. 360-62.000.
Watanabe, Kenichi, 4,681,452, Cl. 356-375.000.
Watanabe, Kenji; Yamazaki, Isamu; Kyomasu, Ryuichi; Takasugi, Nobuhiro; Mimata, Tsutomu; and Kakutani, Osamu, 4,674,670, Cl. 228-102.000.
Watanabe, Masayoshi, 4,641,297, Cl. 369-75.200.
Watanabe, Naomitsu, 4,680,502, Cl. 313-468.000.
Watanabe, Ryuji; Minemura, Tetsuro; Ito, Tetsuo; Ando, Hisashi; Maeda, Yoshihito; Nagai, Masaichi; Shimizu, Seiki; Konno, Kiyoshi; and Kaneko, Toshiki, 4,651,172, Cl. 346-135.100.
Watanabe, Shizuhisa, 4,676,602, Cl. 350-332.000.
Watanabe, Toshinori; Masuishi, Tetsuya; Sasaki, Koji; Haruna, Koichi; and Horie, Noboru, 4,651,284, Cl. 364-491.000.
Watanabe, Toshinori; Sasaki, Koji; Yasunobu, Chizuko; Iizuka, Yumiko; Nagai, Yoshiaki; Yamanaka, Toshiro; Yamakoshi, Minoru; and Tanaka, Takashi, 4,700,317, Cl. 364-488.000.
Yabe, Hideaki; Oshima, Yoshio; Ishikawa, Sako; Ohtsuki, Toru; and Fukuta, Masaharu, 4,635,220, Cl. 364-763.000.
Yabushita, Masaharu; Nohmi, Makoto; Fujikura, Nobuyuki; Miyamoto, Shoji; and Ihara, Hirokazu, 4,641,237, Cl. 364-200.000.
Yajima, Yusuke; Murayama, Seiichi; and Tsujii, Kanji, 4,653,908, Cl. 356-51.000.
Yamada, Hiroshi; Iioka, Michihiro; Sugano, Akira; Takita, Atsu Nigawara, Seiitsu; and Fukai, Masayuki, 4,707,778, C 364-132.000.
Yamada, Jun; Yuhara, Akitsuna; Shiba, Takashi; and Fujita, Y 4,689,586, Cl. 333-151.000.
Yamada, Kazuji; Kobayashi, Yutaka; Kawakami, Kanji; Shimad Satoshi; Tanabe, Masanori; and Kobori, Shigeyuki, 4,670,969, C 29-576.00E.
Yamada, Kimitoshi, 4,710,762, Cl. 340-721.000.
Yamada, Minoru; Usui, Mitsuru; Masaki, Akira; Nakanishi, Ke chirou; and Tokuda, Masahide, 4,686,606, Cl. 361-385.000.
Yamada, Minoru; Wajima, Motoyo; Masaki, Akira; Takah Akio; Nakanishi, Keiichirou; and Sugawara, Katuo, 4,710,35 Cl. 361-414.000.
Yamada, Norio; Kajitani, Hayashi; Chiba, Kyoji; and Edagaw Mitsugu, 4,636,966, Cl. 364-491.000.
Yamada, Takahiro; Namekawa, Satoshi; Yoshino, Eiji; and Masuda, Yasumasa, 4,638,326, Cl. 346-75.000.
Yamagiwa, Tokio; Ishikawa, Toshio; and Endo, Fumih 4,672,150, Cl. 174-14.00R.
Yamaguchi, Hiroshi, 4,697,983, Cl. 415-134.000.
Yamamoto, Akio; Ishizu, Takazumi; and Ichihara, Kiyos 4,704,139, Cl. 55-3.000.
Yamamoto, Akio; and Shinkawa, Keiro, 4,713,556, Cl. 307-219.1
Yamamoto, Etsuji; Kohno, Hideki; Kuroda, Masao; Mats Shigeru; and Shiono, Hidemi, 4,683,433, Cl. 324-309.000.
Yamamoto, Etsuji; Kohno, Hideki; and Takeda, Ryuzabu 4,701,709, Cl. 324-312.000.
Yamamoto, Hiroshi; Satoh, Shuichi; Iwai, Yoshiyuki; Ae, Osam Suda, Masao; Shiozaki, Minoru; Tsuchiya, Kiyoshi; Naka Manabu; Ogata, Kojiro; Miyanagi, Naoki; Ono, Kozo; an Tobita, Nobuyuki, 4,653,594, Cl. 173-49.000.
Yamamoto, Shigehiko, 4,639,377, Cl. 427-10.000.
Yamamura, Hirohisa; Naito, Shotaro; and Katogi, Kozo, 4,665,47 Cl. 364-561.000.
Yamano, Fumiyuki; and Okajima, Atsushi, 4,685,060, C 364-419.000.
Yamaoka, Akira; Wada, Kenichi; and Kuriyama, Kazuno 4,692,891, Cl. 364-763.000.
Yamaoka, Hiromasa; Okamoto, Tadashi; Iwasa, Yuzaburo; an Kimura, Kouichi, 4,688,193, Cl. 364-900.000.
Yamashita, Nobuyuki; Tahara, Kazuo; Watanabe, Masatoshi; an Takahashi, Noriyoshi, 4,657,818, Cl. 428-446.000.
Yamauchi, Teruo; Nogi, Toshiharu; and Oyama, Yoshishige 4,643,151, Cl. 123-432.000.
Yamazaki, Eiichi, 4,651,217, Cl. 358-231.000.
Yanagisawa, Kazumasa, 4,651,306, Cl. 365-210.000.
Yanagisawa, Kazumasa, 4,707,625, Cl. 307-578.000.
Yanai, Eiji; and Kuribayashi, Tetsuzo, 4,693,213, Cl. 122-7.00R.
Yanai, Takao; and Takahashi, Yoshiaki, 4,642,760, Cl. 364-200.00
Yasuoka, Hideki; Tanizaki, Yasunobu; Muramatsu, Akira; and Anzai, Norio, 4,662,057, Cl. 29-571.000.
Yata, Kiyoshi; and Sawada, Hideo, 4,641,27[illegible], Cl. 364-900.000.
Yatsuda, Yuji; Hagiwara, Takaaki; Horiuchi, Masatada; Minam Shinichi; and Kaga, Toru, 4,668,970, Cl. 357-23.500.
Yatsuo, Tsutomu; Nagano, Takahiro; Oikawa, Saburo; Sato Yukimasa; Kimura, Shin; and Fukui, Hiroshi, 4,651,189, C 357-38.000.
Yatsuo, Tsutomu; Momma, Naohiro; Naito, Masayoshi; and Okamura, Masahiro, 4,682,199, Cl. 357-38.000.
Yokokura, Hisao; Era, Susumu; Abe, Hidetoshi; Nakata, Tada Kitamura, Teruo; and Mukoh, Akio, 4,645,305, Cl. 350-351.00
Yokoo, Sadao; Shimomura, Tadashi; Torisawa, Soichi; Da Masahiro; and Kaneda, Tsuyoshi, 4,634,270, Cl. 355-125.000.
Yonezawa, Seiji, 4,646,279, Cl. 369-46.000.
Yonezawa, Seiji; Kanazawa, Yasunori; and Tsuyoshi, Toshia 4,703,408, Cl. 369-44.000.
Yonezawa, Seiji; Ohtake, Masatoshi; Ito, Masaru; Tsuyoshi, Toshiaki; Ichino, Kazuo; and Nakagaki, Harushige, 4,707,816, C 369-44.000.
Yoshida, Isao; Okabe, Takeaki; Ito, Mitsuo; Ashikawa, Kazutoshi and Iijima, Tetsuo, 4,688,323, Cl. 437-29.000.
Yoshida, Kasumi; Uchiki, Hideo; and Kuroishi, Tadafumi 4,645,647, Cl. 422-81.000.
Yoshida, Kasumi; Takano, Nobuyoshi; and Ono, Naoya, 4,708,94 Cl. 436-45.000.
Yoshida, Masahiro; and Oishi, Kanji, 4,656,610, Cl. 365-200.000.
Yoshida, Takashi; Kimura, Tomoaki; Nishino, Tadashi; and Saito Sadayuki, 4,679,611, Cl. 164-431.000.
Yoshida, Tatsuya; and Furuhashi, Toshio, 4,665,884, C 123-609.000.
Yoshida, Toshimi; Maki, Hideo; Umehara, Hajime; Yasuda, Tetsu Masaoka, Isao; Takase, Iwao; Inagaki, Masahisa; Jimbow, Ryutarou; and Kuniya, Keiichi, 4,678,521, Cl. 148-11.50F.
Yoshida, Toshimi; Maki, Hideo; Umehara, Hajime; Yasuda, Tetsu Masaoka, Isao; Takase, Iwao; Inagaki, Masahisa; Jimbow, Ryutarou; and Kuniya, Keiichi, 4,689,091, Cl. 148-11.50F.
Yoshida, Yaoko, 4,685,076, Cl. 364-736.000.
Yoshino, Eiji; Matsuda, Yasumasa; and Yamada, Takahiro 4,670,761, Cl. 346-75.000.
Yoshioka, Masahiro; Izumi, Hideki; Inouye, Hiroshi; Hazaki, Ei chi; and Nakadaira, Shiro, 4,639,146, Cl. 384-99.000.
Yoshioka, Masahiro; and Tsubouchi, Haruyoshi, 4,640,630, C 384-129.000.

Hitachi Maxell, Ltd.: *See—*
Andoh, Haruo; and Matsumoto, Seiji, 4,693,931, Cl. 428-328.000

Aoyama, Shigeo; and Yamamoto, Yoshinori, 4,701,371, Cl. 428-323.000.

Funahashi, Masaya; Miyata, Teruhisa; Inoue, Kenichi; Miyake, Akira; and Norimatsu, Kohji, 4,690,864, Cl. 428-336.000.

Funahashi, Masaya; Miyata, Teruhisa; Inoue, Kenichi; and Miyake, Akira, 4,696,869, Cl. 428-695.000.

Futamoto, Masaaki; Honda, Yukio; Uesaka, Yasutaro; and Yoshida, Kazuetsu, 4,707,756, Cl. 360-131.000.

Goto, Shinichi, 4,646,191, Cl. 360-132.000.

Goto, Shinichi; and Amaike, Toshiyuki, 4,658,981, Cl. 220-338.000.

Goto, Shinichi; and Ogiro, Kenji, 4,712,149, Cl. 360-132.000.

Inagoya, Osamu; Fujiwara, Hideo; Tottori, Takeshi; Yamano, Minoru; Kumasaka, Noriyuki, Otomo, Shigekazu; Kudo, Mitsuhiro; Morikawa, Juiti; Ishihara, Kiyoshi; Usui, Akira; and Hayashi, Masashi, 4,701,819, Cl. 360-122.000.

Kato, Yoshitake; Fujita, Minoru, and Maruyama, Hiroshi, 4,714,973, Cl. 360-133.000.

Kitahata, Shinichi; and Kishimoto, Mikio, 4,677,024, Cl. 428-328.000.

Kitahata, Shinichi; and Kishimoto, Mikio, 4,705,718, Cl. 428-323.000.

Kitta, Kenichi; Kanazawa, Yasunori; and Otomo, Yoshiro, 4,678,338, Cl. 356-402.000.

Kumada, Akio, 4,642,509, Cl. 310-323.000.

Kumada, Akio, 4,663,556, Cl. 310-333.000.

Maehara, Yoshimi, 4,648,565, Cl. 242-198.000.

Maruyama, Hiroshi; Mizushima, Kunio; Sakemoto, Akito; and Umebayashi, Nobuhiro, 4,695,910, Cl. 360-133.000.

Matsumoto, Fujio; Doi, Hajime; Mizushima, Kunio; Funahashi, Masaya; Taniguchi, Tomizo; and Sakamoto, Shoichi, 4,709,816, Cl. 206-444.000.

Matsushima, Seiichi; Higashihara, Toshio; Shimizu, Mitsuru; Yoshizawa, Kei; Suzuki, Masahiro; and Sugiyama, Toshinori, 4,710,913, Cl. 369-280.000.

Miyake, Akira; and Funahashi, Masaya, 4,647,502, Cl. 428-323.000.

Miyata, Teruhisa; Miyake, Akira and Funahashi, Masaya, 4,666,769, Cl. 428-323.000.

Morioka, Akira; Matsuura, Takeshi; and Takahira, Yoshiyuki, 4,716,076, Cl. 428-323.000.

Sumida, Takashi; Sasaki, Sigeo; Ketori, Takao, and Fujita, Kazuhiro, 4,635,879, Cl. 242-198.000.

Sumida, Takashi; Sasaki, Shigeo; and Ketori, Takao, 4,643,304, Cl. 206-387.000.

Sumida, Takashi; Sasaki, Sigeo; Ketori, Takao; Fujita, Kazuhiro; and Ogiro, Kenji, 4,660,784, Cl. 242-198.000.

Sumiya, Kenji; and Saito, Osamu, 4,668,587, Cl. 428-411.100.

Sumiya, Kenji; and Takeuchi, Yoji, 4,698,279, Cl. 428-411.100.

Tajima, Tetsuo; Miwa, Hiroaki; Sudo, Ryoichi, and Horigome, Shinkichi, 4,668,550, Cl. 428-65.000.

Yamaguchi, Yoshitaka, and Sumiya, Kenji, 4,659,633, Cl. 428-695.000.

Yonezawa, Seiji; Kanazawa, Yasunori; and Tsuyoshi, Toshiaki, 4,703,408, Cl. 369-44.000.

Hitachi Medical Corporation: *See—*

Fujii, Hideji; Hayakawa, Takayuki; Sato, Shigeru; and Yanagihara, Eiichi, 4,640,729, Cl. 156-257.000.

Horiba, Isao; Iwata, Akira; Suzumura, Nobuo, and Matsuo, Hiroshi, 4,672,651, Cl. 378-62.000.

Horiba, Isao, and Ishikawa, Ken, 4,682,301, Cl. 364-724.000.

Ishikawa, Ken; Ikeda, Mitsuru, and Watanabe, Shigeru, 4,652,735, Cl. 250-578.000.

Kondo, Shoji; and Taniguchi, Tadashi, 4,652,760, Cl. 250-363.00S.

Kondo, Toshio; and Kuroda, Masao, 4,643,028, Cl. 73-625.000.

Kondo, Toshio; and Sato, Yutaka, 4,653,504, Cl. 128-660.000.

Matsumoto, Goro; Shimizu, Koichi; and Fujita, Hiroyuki, 4,668,094, Cl. 356-376.000.

Nakaya, Chitose; Takeuchi, Hiroshi; and Katakura, Kageyoshi, 4,658,176, Cl. 310-334.000.

Ogawa, Toshio; and Katakura, Kageyoshi, 4,671,115, Cl. 73-626.000.

Ogawa, Toshio; Kondo, Shinichi; Umemura, Shinichiro; and Katakura, Kageyoshi, 4,679,176, Cl. 367-119.000.

Takagi, Hiroshi; Koike, Kouichi; and Takeuchi, Hiroyuki, 4,654,796, Cl. 364-414.000.

Takasugi, Wasao; Shinomura, Ryuichi, and Yokozawa, Norio, 4,680,498, Cl. 310-319.000.

Takeuchi, Hiroshi; Nakaya, Chitose; and Katakura, Kageyoshi, 4,683,396, Cl. 310-358.000.

Umemura, Shin'ichiro; Takeuchi, Hiroshi; Katakura, Kageyoshi; and Nakaya, Chitose, 4,680,499, Cl. 310-334.000.

Umemura, Shinichiro; Takeuchi, Hiroshi; and Katakura, Kageyoshi, 4,692,654, Cl. 310-334.000.

Yagata, Yukihiro, 4,635,644, Cl. 128-660.000.

Hitachi Metals, Ltd.: *See—*

Arakawa, Shunsuke; and Shitori, Kunio, 4,686,347, Cl. 219-117.100.

Eino, Muneyoshi, 4,687,608, Cl. 264-62.000.

Endo, Juro; Murakami, Shiro; Fujii, Shigeo; Nakao, Masayuki; and Iimura, Tsutomu, 4,663,193, Cl. 427-129.000.

Endo, Juro; Murakami, Shiro; Takada, Yukiharu, and Koike, Yoshiharu, 4,709,284, Cl. 360-103.000.

Goto, Ryuji; Kashiwagi, Hiromi; and Yamashita, Keitaro, 4,660,505, Cl. 118-689.000.

Kawanishi, Tsuneaki; Mori, Yasuki; Noguchi, Koji; and Iimura, Tsutomu, 4,640,880, Cl. 430-106.600.

Kudo, Mitsuhiro; Takayama, Shinji; Sawada, Yoshizo; and Ogata, Yasunobu, 4,668,310, Cl. 148-304.000.

Kuni, Asahiro; Yamaguchi, Kazuo; Akiyama, Nobuyuki; and Endo, Juro, 4,647,196, Cl. 356-237.000.

Misumi, Akira; Hirai, Ryoji; and Watanabe, Rikizo, 4,713,576, Cl. 313-402.000.

Morita, Shigetoshi; Ashizawa, Masaaki; and Yamada, Hirohide, 4,642,719, Cl. 360-126.000.

Murakami, Shiro; Fujii, Shigeo; Nakao, Masayuki; Igarashi, Yoshio; and Endo, Juro, 4,645,690, Cl. 427-128.000.

Ogata, Masao; and Kakinuma, Nobuo, 4,670,726, Cl. 335-212.000.

Onda, Kenichi; Abe, Kojin; and Ogawa, Tsugio, 4,700,280, Cl. 363-19.000.

Tsukuda, Yasuo; Hara, Hisao; Harada, Hideki; and Iizuka, Yasuo, 4,715,178, Cl. 60-272.000.

Uchida, Noriaki; Ushijima, Makoto; and Yanagisawa, Etsuo, 4,667,259, Cl. 360-122.000.

Wyman, John E., 4,701,276, Cl. 252-62.520.

Yamada, Hirohide; Sakakibara, Masahiko; and Koike, Yoshiharu, 4,681,813, Cl. 428-150.000.

Yamashita, Keitaro, 4,714,819, Cl. 219-216.000.

Yano, Mitsuru; Kido, Tomoyuki; and Ochi, Yoshiyuki, 4,680,239, Cl. 428-688.000.

Hitachi Microcomputer Engineering, Ltd.: *See—*

Gondou, Takafumi; Amada, Eiichi; and Asano, Kenichi, 4,665,507, Cl. 365-190.000.

Haruna, Koichi; Nakao, Kazuo; Nishiyama, Tamotsu; Tashiro, Tsutomu; Matsumoto, Kuniaki; and Saida, Nobuyuki, 4,644,480, Cl. 364-552.000.

Koyama, Yoshihisa, 4,658,283, Cl. 357-41.000.

Nakamura, Kazunori; Yamaga, Mitsuhiro; Yoshino, Ryozo; and Sugimoto, Norihiko, 4,675,884, Cl. 375-87.000.

Ohno, Nobuhiko; Ogiue, Katsumi; Mizue, Katsuya; and Okuda, Noriyoshi, 4,656,606, Cl. 365-104.000.

Okabe, Takahiro; Hayashi, Makoto; Morisuye, Katuhiro; Watanabe, Tomoyuki; Washio, Katsuyoshi; Ogura, Setsuo; Furihata, Makoto; and Kondo, Shizuo, 4,697,102, Cl. 307-454.000.

Okada, Daisuke; Uchida, Akihisa; Takakura, Toshihiko; Nakashima, Shinji; Ohno, Nobuhiko; and Ogiue, Katsumi, 4,700,464, Cl. 437-67.000.

Okada, Yoshinori; Watanabe, Hisaji; Fukushima, Isao; and Yoshida, Hideo, 4,672,468, Cl. 358-310.000.

Ookawa, Tomoyuki; and Murayama, Hiroshi, 4,644,491, Cl. 364-784.000.

Sakakibara, Yasuhiro; Kobayashi, Isamu; and Suzuki, Yoshinori, 4,701,886, Cl. 365-189.000.

Sato, Nobuyuki; Ujiie, Kazuaki; Terasawa, Masaaki; and Nabetani, Shinji, 4,692,904, Cl. 365-226.000.

Takenaka, Takaji; Watanabe, Hideki; and Imada, Haruhiko, 4,706,165, Cl. 361-403.000.

Ueno, Tatsuaki; and Inoue, Hajime, 4,691,217, Cl. 357-23.130.

Washio, Katsuyoshi; Hayashi, Makoto; Watanabe, Tomoyuki; Okabe, Takahiro; and Norisuye, Katuhiro, 4,694,321, Cl. 357-48.000.

Yokoo, Sadao; Shimomura, Tadashi; Torisawa, Soichi; Dan, Masahiro; and Kaneda, Tsuyoshi, 4,634,270, Cl. 355-125.000.

Hitachi Plant Engineering & Construction Co., Ltd.: *See—*

Saiki, Atsushi; Suzuki, Michio; Sunami, Hideo; Asai, Shojiro; Maki, Michiyoshi, and Asami, Kinichiro, 4,693,173, Cl. 98-31.500.

Watanabe, Koji; Watanabe, Mitsuo; Toyoda, Naoki; Toyoda, Hideo; Kumano, Toshio; and Hiramoto, Michiaki, 4,667,481, Cl. 62-235.000.

Hitachi Powdered Metals Co., Ltd.: *See—*

Ikenoue, Yutaka; Endoh, Hiroyuki; Ishii, Kei; and Suzuki, Keitaro, 4,648,903, Cl. 75-230.000.

Takagi, Yoshiaki; Katsui, Yoshihiro; Endo, Hiroyuki; and Ikenoue, Yutaka, 4,702,771, Cl. 75-241.000.

Hitachi, Process Computer Engineering, Inc.: *See—*

Murakami, Toshiyuki; Sugimoto, Norihiko; and Ogawa, Naoki, 4,680,757, Cl. 370-89.000.

Hitachi Sanki Engineering Co., Ltd.: *See—*

Kihara, Kazuhiko; Tsunekane, Kinichiro; Shidara, Hajime; and Makino, Tadashi, 4,653,674, Cl. 222-342.000.

Hitachi Seiki Co., Ltd.: *See—*

Kojima, Sadao; Abe, Hitoshi; Ishizaki, Fumio; Otani, Atusi; and Shirotori, Hidefumi, 4,680,999, Cl. 82-36.00B.

Ookuma, Tadashi; and Murata, Shigeshi, 4,672,551, Cl. 364-474.000.

Hitachi Seiko Ltd.: *See—*

Nakajima, Kiyoharu; Ito, Taisuke; and Nakamura, Yusui, 4,667,113, Cl. 250-561.000.

Ohtani, Tamio; Kanaya, Yasuhiko; Aoyama, Hiroshi; and Nonaka, Nobuyasu, 4,658,494, Cl. 29-568.000.

Yamada, Takahiro; Namekawa, Satoshi; Yoshino, Eiji; and Matsuda, Yasumasa, 4,638,326, Cl. 346-75.000.

Yoshino, Eiji; Matsuda, Yasumasa, and Yamada, Takahiro, 4,670,761, Cl. 346-75.000.

Hitachi Shipbuilding & Engineering Company Limited: *See—*

Ando, Takehiro; Kimura, Hideo; Oda, Noriyuki; Asai, Takeji; Mochizuki, Ken; Fujihara, Toshihisa; and Maeda, Katsuji, 4,642,127, Cl. 55-20.000.

Hitachi Software Engineering Co., Ltd.: *See—*

Nasu, Hisanori; Suzuki, Satoru; Yoshida, Hiroaki; Fukuda, Tomoichi; and Soeda, Eiichi, 4,706,192, Cl. 364-413.000.

Hitachi Tokyo Electronics Co., Ltd.: *See—*

Hoshi, Akio; and Oura, Toshiyuki, 4,702,371, Cl. 206-328.000.

  Morita, Koyo; Nomura, Keizo; Nishizuka, Hiroshi; Hoshi, Tai; Tamiya, Yoichiro; and Asakawa, Terushige, 4,701,608, Cl. 250-205.000.
Hitachi Tokyo Engineering Co., Ltd.: *See—*
  Watanabe, Kenji; Yamazaki, Isamu; Kyomasu, Ryuichi; Takasugi, Nobuhiro; Mimata, Tsutomu; and Kakutani, Osamu, 4,674,670, Cl. 228-102.000.
Hitachi Video Engineering, Inc.: *See—*
  Ito, Takayasu; Nishijima, Hideo; Fukushima, Isao; Fujimori, Yoshio; and Kobori, Yasunori, 4,651,067, Cl. 318-254.000.
  Kodama, Takuma; Takahashi, Kenji; Ishibashi, Shizuka; Kudo, Koji; Masuda, Yukihiro; Hombough, Masanori; Miyoshi, Osamu; and Yoshiwara, Kazuhisa, 4,649,421, Cl. 358-51.000.
  Komatsu, Shigeru; and Kawata, Keiji, 4,638,497, Cl. 375-116.000.
  Shiomi, Makoto; Miura, Kuniaki; Fukushima, Isao; Moro, Eiji; and Kanenari, Shigeaki, 4,667,168, Cl. 331-1.00R.
Hitachi Zosen Corporation: *See—*
  Furutera, Masaharu; Furukawa, Tetsuro; and Matsushita, Yoshiaki, 4,662,191, Cl. 62-476.000.
  Furutera, Masaharu; Furukawa, Tetsuro; Matsushita, Yoshiaki; and Nakauchi, Kenji, 4,672,821, Cl. 62-324.200.
  Hashiguchi, Shinji; Kimata, Hisayuki; and Koga, Yukuo, 4,706,090, Cl. 342-41.000.
  Murata, Seiichiro; Tateishi, Masaru; Yoshioka, Toshio; Kamei, Sakito; Nakazono, Hiroshi; and Yamawaki, Yoshiro, 4,660,491, Cl. 114-65.00R.
  Murata, Seiichiro; Tateishi, Masaru; Hayakawa, Kohji; Sakamoto, Takeshi; and Mukasa, Kohsuke, 4,674,430, Cl. 114-355.000.
  Nishino, Yoshinori; Yamamoto, Masahiko; Uda, Tadayoshi; Kondo, Kiyoshi; Kondo, Yutaka; and Kondo, Kazuo, 4,709,714, Cl. 134-89.000.
  Sakaguchi, Haruo; Suehiro, Teruyoshi; Nagai, Kunio; Hashimoto, Toshie; Nishiyama, Hisaki; and Mohri, Masakazu, 4,674,556, Cl. 164-454.000.
  Sakaguchi, Haruo; Suehiro, Teruyoshi; Nagai, Kunio; Hashimoto, Toshie; Nishiyama, Hisaki; and Mohri, Masakazu, 4,694,885, Cl. 164-416.000.
  Sakaguchi, Haruo, 4,694,886, Cl. 164-416.000.
  Sakaguchi, Haruo; Suehiro, Teruyoshi; Terada, Kohsuke; Ueda, Minoru; Nagai, Kunio; Hashimoto, Toshie; Nishiyama, Hisaki; and Mohri, Masakazu, 4,703,791, Cl. 164-417.000.
  Tomita, Yukio; Wakabayashi, Takayuki; Matsuda, Mitsunobu; Shibamoto, Nobuji; and Yamashiro, Yoshihiro, 4,645,065, Cl. 198-573.000.
Hitch, Robert J., to W. C. Bradley Company. Adjustable shutter grate for barbecue grills. 4,703,746, 11-3-87, Cl. 126-25.00R.
Hitchcock, David: *See—*
  Lisowyj, Bohdan; Hitchcock, David; and Epstein, Henry, 4,643,110, Cl. 110-229.000.
Hitchcock, David C.: *See—*
  Lisowyj, Bohdan; Hitchcock, David C.; and Epstein, Henry, 4,678,647, Cl. 423-96.000.
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Hitchcock, Robert B.; Kellerman, Eduardo; and Koons, John P., to International Business Machines Corporation. Printed circuit board with vias at fixed and selectable locations. 4,700,016, 10-13-87, Cl. 174-68.500.
Hitchcock, Robert B., Sr.; and Graf, Matthew C., to International Business Machines Corporation. Logic simulation machine. 4,656,580, 4-7-87, Cl. 364-200.000.
Hitchcock, William H., to Cooper Industries. Starting circuit and apparatus for high pressure sodium lamps. 4,683,404, 7-28-87, Cl. 315-289.000.
Hitchin, James: *See—*
  Jensen, Eric A.; Hitchin, James; Tsai, Albert G.; and Arrhenius, Gustaf O., 4,696,338, Cl. 165-1.000.
Hitchiner Manufacturing Co., Inc.: *See—*
  Chandley, George D., 4,651,799, Cl. 164-35.000.
Hitchins, William G. Modular building component. 4,679,366, 7-14-87, Cl. 52-217.000.
Hitchner, Elinor, to Frito-Lay, Inc. Composite food product. 4,689,238, 8-25-87, Cl. 426-571.000.
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  Falstrup, David C., 4,646,984, Cl. 242-54.00R.
  Franks, Theodore E., 4,684,304, Cl. 411-171.000.
  McCabe, Michael V., 4,661,336, Cl. 423-447.200.
  Mosher, Paul V., 4,650,840, Cl. 528-506.000.
Hite, John D. Solder dispenser. 4,690,318, 9-1-87, Cl. 228-57.000.
Hite, Lester C.: *See—*
  Mathes, Arnold; and Hite, Lester C., 4,662,151, Cl. 53-587.000.
Hitec Co., Ltd.: *See—*
  Kasai, Minoru; Oka, Takao; Takamagari, Munenori; Shibata, Chiyoji; and Nakamura, Minoru, 4,682,385, Cl. 17-45.000.
HiTek Polymers, Inc.: *See—*
  Morgan, Michael E., 4,677,201, Cl. 536-114.000.
Hitler, Gene D.: *See—*
  Martin, Hubert C., Jr.; Hitler, Gene D.; and Parsley, David W., 4,638,417, Cl. 363-41.000.
Hitomi, Mitsuo; Hinatase, Fumio; and Yuzuriha, Yasuhiro, to Mazda Motor Corporation. Intake system for internal combustion engine. 4,671,217, 6-9-87, Cl. 123-52.0MB.
Hitomi, Mitsuo; Hinatase, Fumio; and Yuzuriha, Yasuhiro, to Mazda Motor Corporation. Intake system for internal combustion engine. 4,679,531, 7-14-87, Cl. 123-52.0MB.
Hitoshi, Tozawa: *See—*
  Kenji, Yabusaki; Hitoshi, Tozawa, Akira, Noda; and Takashi, It 4,708,477, Cl. 356-222.000.
Hitoshi, Yamazaki; Takao, Takeda; Shizuo, Nakano; Kouji, Yamamoto; Hiroshi, Ito; and Jun, Imai, to Mitsubishi Denki Kabushiki Kaisha. Low pressure discharge lamp. 4,659,962, 4-21-87, Cl. 313-493.000.
Hitoshi, Yamazaki: *See—*
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Hitotsumachi, Shuzo, to Matsushita Electric Industrial Co., Ltd. Apparatus for reducing noise in audio signals. 4,648,118, 3-3-87, C 381-94.000.
Hitson, Herbert A., to Monitor Manufacturing Company. Adjustabl seat belt attachment for vans. 4,634,184, 1-6-87, Cl. 297-468.000.
Hittel, Gerhard: *See—*
  Naumann, Rolf; and Hittel, Gerhard, 4,665,721, Cl. 66-203.00
Hittel, William C.: *See—*
  O'Boyle, Dolores; and Hittel, William C., 4,646,746, C 128-476.000.
Hittenberger, Drew A.: *See—*
  Poggi, Donald L.; Burgess, Ernest M.; Moeller, David E., an Hittenberger, Drew A., 4,645,509, Cl. 623-55.000.
Hittich, Reinhard; Weber, Georg; Sucrow, Wolfgang; and Geschwinder, Peter, to Merck Patent Gesellschaft mit Beschrankter Haf ung. Carbonitriles. 4,693,841, 9-15-87, Cl. 252-299.620.
Hittich, Reinhard: *See—*
  Eidenschink, Rudolf; Krause, Joachim; Hittich, Reinhard; Poetsch, Eike; Scheuble, Bernhard; Weber, Georg; and Pohl, Ludwig, 4,713,197, Cl. 252-299.610.
  Krause, Joachim; Wachtler, Andreas; Hittich, Reinhard; Weber, Georg; and Scheuble, Bernhard, 4,704,227, Cl. 252-299.610.
  Pohl, Ludwig; Scheuble, Bernhard; Wachtler, Andreas; Hittich, Reinhard; and Fuss, Peter, 4,707,295, Cl. 252-299.620.
Hittie, Debra A. Padded infant seat liner. 4,695,092, 9-22-87, C 297-230.000.
Hitzigrath, Richard: *See—*
  Black, Stephen J.; Hitzigrath, Richard; Rosenblatt, Arnold; and Grundy, Douglas H., 4,705,100, Cl. 165-40.000.
Hitzman, Donald O.: *See—*
  Fruthaler, Katherine J.; Hopkins, Thomas R.; Hitzman, Donald O.; Kubicek, Donald H.; and Kallenbach, Lyle R., 4,681,758, C 424-78.000.
Hiura, Akira: *See—*
  Nakaoka, Kazuhide; Takada, Yoshikazu; Inagaki, Junichi; and Hiura, Akira, 4,715,905, Cl. 148-111.000.
Hivessy, Geza: *See—*
  Bakay, Arpad; Bergmann, Gyorgy; Hivessy, Geza; and Szentgyorgyi, Istvan, 4,688,397, Cl. 62-335.000.
Hiwada, Kunio: *See—*
  Matsueda, Rei; Yabe, Yuichiro; Yamazaki, Mitsuo; Kokubu, Ta suo; and Hiwada, Kunio, 4,698,329, Cl. 514-18.000.
Hiwatashi, Yasunori: *See—*
  Yoshimura, Shushichi; Hiwatashi, Yasunori; Kobayashi, Hiromi; Yamazaki, Hozo; Nishino, Nobu; Tahara, Teruji; and Kobayashi, Hidenobu, 4,693,879, Cl. 423-461.000.
Hix, Veldon M.: *See—*
  Willard, Miles J.; Dayley, Kyle E.; Hix, Veldon M.; and Holm, David A., 4,650,687, Cl. 426-438.000.
Hix, William R. Isometric exercising device. 4,645,200, 2-24-87, C 272-73.000.
Hix, Willis G., Jr., to Perfection Machine & Tool Works. Lock assembly. 4,676,534, 6-30-87, Cl. 292-205.000.
Hixenbaugh, Dennis L.; and Gossar, Ronald C., to Pennsylvania Engineering Corporation. Arc furnace burner control method and apparatus. 4,646,315, 2-24-87, Cl. 373-2.000.
Hixenbaugh, Dennis L., to Pennsylvania Engineering Corporation. Gas collector for metallurgical vessels. 4,653,064, 3-24-87, Cl. 373-9.000.
Hixenbaugh, Dennis L.; and Leich, Alice, to Baumco, Inc. Pressure sensing probe. 4,676,107, 6-30-87, Cl. 73-706.000.
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  Shikamori, Tamotsu; Toshimitsu, Hiroyuki; Ohsugi, Hiroshi; Hiyama, Isao; and Fukuzawa, Soichi, 4,691,538, Cl. 68-12.00R.
Hiyama, Naoki: *See—*
  Kinoshita, Toshio; and Hiyama, Naoki, 4,684,183, Cl. 439-77.000.
Hiyama, Satoshi, to Kabushiki Kaisha Toshiba. Current mirror circuit. 4,[illegible]47,840, 3-3-87, Cl. 323-315.000.
Hiyama, Tamejiro: *See—*
  Matsui, Kiyohide; Kikuchi, Yoshiyuki; Hiyama, Tamejiro; Tobita, Etsuko; Kondo, Kiyosi; Akimoto, Akira; Seita, Toru; and Watanabe, Hiroyuki, 4,659,744, Cl. 521-32.000.
  Matsui, Kiyohide; Kikuchi, Yoshiyuki; Hiyama, Tamejiro; Tobita, Etsuko; and Kondo, Kiyoshi, 4,661,231, Cl. 204-252.000.
Hiyama, Toru: *See—*
  Nishida, Takao; Hiyama, Toru; Moriwaki, Kaoru; Ishiyama, Shun and Miyamoto, Shunsuke, 4,703,257, Cl. 324-73.00R.
Hiyama, Yasuhiro; and Nozaki, Shinya, to Diesel Kiki Co., Ltd. Unit injector for internal combustion engines. 4,674,461, 6-23-87, Cl. 123-500.000.
Hiyama, Yasuhiro, to Diesel Kiki Co., Ltd. Inclination and acceleration sensor utilizing electrostatic capacitive effects. 4,707,927, 11-24-87, Cl. 33-366.000.
Hiyama, Yasuhiro, to Diesel Kiki Co., Ltd. Electromagnetic actuator 4,708,317, 11-24-87, Cl. 251-129.160.
Hiyamizu, Satoshi: *See—*
  Mimura, Takashi; and Hiyamizu, Satoshi, 4,714,948, Cl. 357-22.000

Hiyane, Masao, to Fujitsu Limited. Multi-articulated robot. 4,697,472, 10-6-87, Cl. 74-479.000.

Hiza, Misao; Yamazaki, Hajime; and Omote, Shigeo, to Yokohama Rubber Co., Ltd., The. Adhesive compositions. 4,654,382, 3-31-87, Cl. 523-457.000.

Hjalmer, William D., and Carns, Hutchinson W., to Schlegel Corporation. Method and apparatus for making tufted buffing pads of varied density. 4,686,918, 8-18-87, Cl. 112-410.000.

Hjersted, Norman B. Process of preparing a preferred ferric sulfate solution, and product. 4,707,349, 11-17-87, Cl. 423-558.000.

Hjertberg, Eric A.; and Hjertberg, Jon A., to Wheelsmith, Inc. Bicycle spoke tensiometer. 4,706,508, 11-17-87, Cl. 73-862.470.

Hjertberg, Jon A.: *See—*
- Hjertberg, Eric A.; and Hjertberg, Jon A., 4,706,508, Cl. 73-862.470.

Hjerten, Stellan. Coating for electrophoresis tube. 4,680,201, 7-14-87, Cl. 427-230.000.

Hjerten, Wilhelm E. S.; and Wadstrom, Torkel M., to Landstingens Inkopscentral, Lic, Ekonomisk Forening. Agent for preventing or treating infections in human beings and animals. 4,645,757, 2-24-87, Cl. 514-54.000.

Hjipieris, George: *See—*
- Griffin, Eric J.; Collier, Richard J.; and Hjipieris, George, 4,641,082, Cl. 324-58.00B.

Hjorth-Hansen, Arne. Tire handling apparatus. 4,678,163, 7-7-87, Cl. 254-50.200.

Hjortsberg, Arne; Holmstrom, Goran; and Osterlund, Erik, to ASEA Aktiebolag. Current transmission system for HVDC including a solid insulator having a surface coating of resin containing chromium oxide or iron oxide. 4,688,142, 8-18-87, Cl. 361-332.000.

Hladik, Larry L.: *See—*
- Baldino, Micheal; Voss, Robert L.; and Hladik, Larry L., 4,706,554, Cl. 98-121.200.

Hlastala, Michael P.: *See—*
- Babb, Albert L.; and Hlastala, Michael P., 4,671,298, Cl. 128-719.000.

Hlavach, Mark C., to Chrysler Motors Corporation. Movable molding for a vehicle. 4,695,084, 9-22-87, Cl. 293-126.000.

Hlavach, Mark C., to Chrysler Motors Corporation. Movable molding for a vehicle. 4,700,977, 10-20-87, Cl. 293-126.000.

Hlavka, Joseph J.; Lin, Yang-I; and Bitha, Panayota, to American Cyanamid Company. Hydroxylated 1,2-diaminocyclohexane platinum complexes. 4,670,458, 6-2-87, Cl. 514-492.000.

Hlavka, Joseph J.; Child, Ralph G.; Bitha, Panayota; and Lin, Yang-I, to American Cyanamid Company. Platinum complexes of diaminodideoxy sugars and di- or tricarboxylic acids. 4,703,115, 10-27-87, Cl. 536-55.000.

Hlavka, Joseph J.: *See—*
- Bitha, Panayota; Child, Ralph G.; Hlavka, Joseph J.; and Lin, Yang-I, 4,665,210, Cl. 556-137.000.
- Bitha, Panayota; Child, Ralph G.; Hlavka, Joseph J.; and Lin, Yang-I, 4,675,336, Cl. 514-492.000.
- Bitha, Panayota; Child, Ralph G.; Hlavka, Joseph J.; and Lin, Yang-I, 4,716,157, Cl. 514-184.000.

Hlavka, Lloyd F., to Varian Associates, Inc. Pulsed gas control for NMR spinner speed adjustment. 4,706,029, 11-10-87, Cl. 324-321.000.

Hlawatschek, Hartmut; Leistner, Hans; and Gelsdorf, Gunter, to Didier-Werke AG. Electrode for an electric arc furnace. 4,648,097, 3-3-87, Cl. 373-93.000.

Hlebarov, Vladimir P.: *See—*
- Garlanov, Dimo T.; Dimitrov, Dimiter A.; Beloev, Marin G.; Hlebarov, Vladimir P.; Vangelov, Ivan V.; Nikov, Nikolay Y.; and Savov, Ivan S., 4,691,090, Cl. 219-121.0PC.

Hledin, Alexander S. Internal-combustion engines. 4,635,591, 1-13-87, Cl. 123-37.000.

Hlinka, James J.; and Fundahn, Edward W., to A. O. Smith Harvestore Products, Inc. Cutter chain construction for a bottom unloader. 4,671,727, 6-9-87, Cl. 414-306.000.

Hluchy, Heinz: *See—*
- Korth, Knut, and Hluchy, Heinz, 4,633,860, Cl. 128-305.000.

Hluchyj, Michael G.: *See—*
- Braff, Martin; and Hluchyj, Michael G., 4,644,533, Cl. 370-94.000.

Hmelovsky, Michael W.; and Tedeschi, Rinaldo R., to United Technologies Corporation. On-board motor vehicle timing measurement system. 4,707,791, 11-17-87, Cl. 364-431.040.

HMS Products Co.: *See—*
- Sofy, Hugh M., 4,702,363, Cl. 192-150.000.

Inatowich, Donald, to University of Massachusetts, Trustees of the. Process for labeling amines with ^{99m}Tc. 4,668,503, 5-26-87, Cl. 424-1.100.

INU Systems, Inc.: *See—*
- Driscoll, John N.; and Atwood, Edwards S., 4,659,434, Cl. 204-1.00T.

o, Chi-Tang: *See—*
- Chang, Stephen S.; Ho, Chi-Tang; and Houlihan, Christopher M., 4,638,095, Cl. 568-326.000.
- Chang, Stephen S.; Ho, Chi-Tang; and Izzo, Barbara A., 4,670,267, Cl. 426-41.000.

o, Chien-Han. Process to manufacture control cable. 4,697,341, 10-6-87, Cl. 29-871.000.

o, Chien-Han: *See—*
- Lin, Jong-Tsuen; and Ho, Chien-Han, 4,710,612, Cl. 219-547.000.

o, Chih Y., to McNeilab, Inc. Method for the treatment of LHRH diseases and conditions. 4,678,784, 7-7-87, Cl. 514-219.000.

o, Hwa-shan, to NL Industries, Inc. Method and apparatus for bottom hole measurement. 4,662,458, 5-5-87, Cl. 175-27.000.

Ho, James C.: *See—*
- Oberly, Charles E.; Gegel, Harold L., and Ho, James C., 4,711,825, Cl. 428-614.000.

Ho, Jim Y. W., to Canada, Her Majesty the Queen in right of, as represented by the Minister of National Defence. Computer controlled constant concentration and size particulate general system. 4,710,887, 12-1-87, Cl. 364-555.000.

Ho, Laurence L.: *See—*
- Neiss, Edward S.; Stevenson, David; Ho, Laurence L.; Lim, Robert C.; and Suh, John T., 4,650,854, Cl. 530-307.000.

Ho, Phillman N., to Union Oil Company of California. Extraction of hydrocarbon-containing solids. 4,695,373, 9-22-87, Cl. 208-428.000.

Ho, Quang D.: *See—*
- van Swam, Leo F.; and Ho, Quang D., 4,689,193, Cl. 376-251.000.

Ho, Rodney J. Y.: *See—*
- Huang, Leaf; and Ho, Rodney J. Y., 4,708,933, Cl. 435-7.000.

Ho, Sa Van, to Monsanto Company. Method for separating polypeptides. 4,645,829, 2-24-87, Cl. 530-344.000.

Ho, Shih-Ming; and Radford, Kenneth C., to Westinghouse Electric Corp. Burnable absorber-containing nuclear fuel pellets and formation of the same. 4,683,114, 7-28-87, Cl. 376-419.000.

Ho, Shu-Kuang: *See—*
- Wang, An; Ho, Shu-Kuang; and Mainemer, Carlos I., 4,638,118, Cl. 178-18.000.

Ho Tan, Xuan: *See—*
- Bottle, Dietrich; and Ho Tan, Xuan, 4,654,866, Cl. 379-54.000.

Ho, Teh C.; Chianelli, Russell R.; Jacobson, Allan J.; and Young, Archie R., to Exxon Research and Engineering Company. Supported transition metal sulfide promoted molybdenum or tungsten sulfide catalysts and their uses for hydroprocessing. 4,698,145, 10-6-87, Cl. 208-18.000.

Ho, Teh C.: *See—*
- Jacobson, Allan J.; Ho, Teh C.; Chianelli, Russel R.; and Pecoraro, Theresa A., 4,666,878, Cl. 502-221.000.
- Jacobson, Allan J.; Ho, Teh C.; Chianelli, Russell R.; Steger, John J.; and Montagna, Angelo A., 4,716,139, Cl. 502-167.000.
- McCandlish, Larry E.; and Ho, Teh C., 4,663,023, Cl. 208-112.000.
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- Young, Archie R.; Ho, Teh C.; Jacobson, Allan J.; and Chianelli, Russell R., 4,668,376, Cl. 208-108.000.

Ho, Victor: *See—*
- Liu, Marie W.; and Ho, Victor, 4,678,849, Cl. 526-259.000.

Ho, Vu Q.; Nentwich, Heinz J.; and Naquib, Hussein M., to Northern Telecom Limited. Forming low resistivity hillock free conductors in VLSI devices. 4,680,854, 7-21-87, Cl. 29-576.00B.

Ho, Vu Q.: *See—*
- Naguib, Hussein M.; Calder, Iain D.; Ho, Vu Q.; and Naem, Abdalla A., 4,683,645, Cl. 437-41.000.

Ho, W.S. Winston: *See—*
- Stogryn, Eugene L.; Ho, W.S. Winston; and Montagna, Angelo A., 4,665,195, Cl. 548-523.000.

Hoag, Ethan; and Zeiders, Glenn, to Laser Corporation of America. Gas laser having improved crossflow blower arrangement. 4,686,680, 8-11-87, Cl. 372-58.000.

Hoag, Ethan D., to Laser Corporation of America. Gas laser having thermally stable optical mount. 4,686,685, 8-11-87, Cl. 372-107.000.

Hoag, Ethan D., to Laser Corporation of America. Discharge electrode for a gas discharge device. 4,698,551, 10-6-87, Cl. 313-619.000.

Hoagland, Daniel A.; and Amoroso, Michael J., to Amoroso, Michael J. Exercise machine. 4,676,501, 6-30-87, Cl. 272-70.000.

Hoashi, Jyuzaemon; Fumoto, Syozo; and Oshita, Kiyoshi, to Daikin Kogyo Co., Ltd. Novel polytetrafluoroethylene fine powder. 4,714,748, 12-22-87, Cl. 526-255.000.

Hoback, Gregory K., to HoseCo, Inc. Rotary crimping tool. 4,655,064, 4-7-87, Cl. 72-35.000.

Hobart Brothers Company: *See—*
- Johansson, John I. E., 4,666,363, Cl. 414-736.000.

Hobart Corporation: *See—*
- Blackburn, Donald H.; and Treiber, Fritz F., 4,660,252, Cl. 17-26.000.
- Crane, Herbert R.; and Valentine, Richard D., 4,657,188, Cl. 239-557.000.
- Eberhardt, Mark E., Jr.; and Caldwell, Francis J., 4,689,089, Cl. 134-18.000.
- Fritzsche, Donald E., 4,684,412, Cl. 134-19.000.
- Fritzsche, Donald E., 4,704,290, Cl. 426-438.000.
- Treiber, Fritz F., 4,705,588, Cl. 156-360.000.
- Van Camp, Richard H., 4,648,377, Cl. 126-21.00A.

Hobart, Michael A.: *See—*
- Anderson, Roger N.; Hobart, Michael A.; and Van Stevenınck, William, 4,676,664, Cl. 374-136.000.

Hobas Engineering & Durotec AG: *See—*
- Jost, Ralph, 4,642,156, Cl. 156-425.000.

Hobbie, Dierk: *See—*
- Ackermann, Fritz; Felle, Karl; and Hobbie, Dierk, 4,669,048, Cl. 364-525.000.

Hobbins, Martin E.; Dickie, Robert G.; and Pardo, Rene, to Northern Technologies Ltd. Conductive screen for video display unit. 4,701,801, 10-20-87, Cl. 353-245.000.

Hobbins, Martin E.: *See—*
- Dickie, Robert G.; and Hobbins, Martin E., 4,686,576, Cl. 358-245.000.

Hobbs-Adams Engineering Company: *See—*
- Hobbs, Oliver K., 4,696,151, Cl. 56-14.600.

- Hobbs, Barry B.: *See—*
  - Fenster, Aaron; Hobbs, Barry B.; and Cunningham, Ian A., 4,669,105, Cl. 378-146.000.
- Hobbs, Larry P.; and Morris, Harold D., to Systron Donner Corporation. Servoed accelerometer having isolated voltage torquing and method. 4,651,075, 3-17-87, Cl. 318-651.000.
- Hobbs, Michael L., to Tempmaster Corporation. Flush mounted temperature sensor. 4,659,236, 4-21-87, Cl. 374-208.000.
- Hobbs, Monte O.: *See—*
  - Weigle, William O.; Hobbs, Monte O.; Morgan, Edward L.; Thoman, Marilyn L.; and Houghten, Richard A., 4,683,221, Cl. 514-14.000.
- Hobbs, Oliver K., to Hobbs-Adams Engineering Company. Separator system for peanut combine. 4,696,151, 9-29-87, Cl. 56-14.600.
- Hobbs, Richard E.; and Hanning, John H., to Huntington Laboratories, Inc. Fluid-dispensing apparatus. 4,651,902, 3-24-87, Cl. 222-153.000.
- Hobbs, Robert N., to Ex-Cell-O Corporation. Tool quill exchanging mechanism for a machine tool. 4,654,953, 4-7-87, Cl. 29-568.000.
- Hobeg mbH: *See—*
  - Becker, Hans-Joachim; Heit, Werner; Rind, Wilhelm; and Warzawa, Wolfgang, 4,666,639, Cl. 264-0.500.
  - Becker, Hans-Joachim; Heit, Werner; Huschke, Hans; and Rind, Wilhelm, 4,668,444, Cl. 264-0.500.
- Hoberman, Barry A., to Monolithic Memories, Inc. High speed first-in-first-out memory. 4,642,797, 2-10-87, Cl. 365-221.000.
- Hobes, John: *See—*
  - Morguet, Hermann; Hobes, John; Spaleck, Walter; and Payer, Wolfgang, 4,663,301, Cl. 502-110.000.
- Hobgood, Charles M. Portable partition wall system. 4,635,418, 1-13-87, Cl. 52-239.000.
- Hobi, Bernard J.: *See—*
  - Adomaitis, Paul R.; Brouwer, Nicholaas L.; and Hobi, Bernard J., 4,675,730, Cl. 358-106.000.
- Hoblingre, Andre: *See—*
  - Mouhot, Frederic; Barnabe, Jean-Pierre; Hoblingre, Andre; and Clerc, Michel, 4,648,624, Cl. 280-775.000.
- Hoblit, Louis D.: *See—*
  - Sanders, John H.; Hoblit, Louis D.; and Mann, Joe A., 4,716,055, Cl. 427-304.000.
- Hobo, Nobuhito: *See—*
  - Konishi, Yoshimune; Hobo, Nobuhito; Tsuzuki, Yoshihiko; Kameoka, Narutoshi; Miyaki, Masahiko; and Koide, Hiroshi, 4,653,454, Cl. 123-506.000.
- Hobo, Sumiya: *See—*
  - Nara, Toshio; Hobo, Sumiya; Kashiwada, Masao; Totsuka, Motoyuki; Hoshiai, Takao; Umetani, Katsutoshi; Akamatsu, Keisuke; Inada, Tomohide; and Takayama, Hisao, 4,639,220, Cl. 433-69.000.
- Hoboh, Yoshihiko: *See—*
  - Kurimoto, Tatsuo; Hoboh, Yoshihiko; Ohishi, Hiroshi; Noumi, Ryoichi; and Wakano, Shigeru, 4,659,631, Cl. 428-624.000.
- Hobourn-Eaton Limited: *See—*
  - Bristow, Ian T., 4,659,296, Cl. 418-15.000.
  - Bristow, Ian T., 4,673,341, Cl. 418-26.000.
  - Bristow, Ian T., 4,679,995, Cl. 418-26.000.
- Hobrecht, Stephen W., to National Semiconductor Corporation. IC low-capacitance, low-frequency, low-current, non-radiating oscillator. 4,642,579, 2-10-87, Cl. 331-111.000.
- Hobrecker, Hans-Peter: *See—*
  - Schoening, Josef; Schmiedel, Fritz; Handel, Hubert; and Hobrecker, Hans-Peter, 4,654,189, Cl. 376-265.000.
- Hobrecker, Peter: *See—*
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- Hobson, David W., to United States of America, Air Force. Flow through device for determination of the penetration rate of chemicals across biological membranes in vitro. 4,667,504, 5-26-87, Cl. 73-38.000.
- Hobson, J. David. Swing seating unit. 4,693,512, 9-15-87, Cl. 297-277.000.
- Hobson, Joseph H., Sr. Baled mulch applicator. 4,688,729, 8-25-87, Cl. 241-101.700.
- Hobson, Keith J.; and Hartley, Brian. Anti-roll back device. 4,715,483, 12-29-87, Cl. 192-4.00A.
- Hobson, Phillip M.: *See—*
  - Layman, Frederick P.; Huntley, David A.; Dick, Paul H.; Coad, George L.; Kuhlman, Michael J.; Vecta, Roger M.; and Hobson, Phillip M., 4,705,951, Cl. 250-442.100.
- Hobson, Robert R., to General Electric Company. Nuclear reactor coolant recirculation. 4,696,792, 9-29-87, Cl. 376-377.000.
- Hobson, Willis S., to Seymour Mfg. Co. Three axis corner bracket. 4,685,576, 8-11-87, Cl. 211-189.000.
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- Hochberg, Charles. Birth control pill dispenser in the form of a hair brush. 4,690,279, 9-1-87, Cl. 206-531.000.
- Hochberg, Howard M.; Schmalzbach, Edwin L.; and Ziedonis, Janis G., to International Biomedics, Inc. Spiral probe for simultaneous electrical and chemical monitoring of a fetus. 4,658,825, 4-21-87, Cl. 128-634.000.
- Hochiki Corporation: *See—*
  - Atsumi, Haruyuki; Anzai, Hisatugu; and Kasahara, Nobor
    4,715,146, Cl. 49-1.000.
  - Honma, Hiroshi; and Narumiya, Junichi, 4,695,734, Cl. 250-573.00
  - Ito, Kentaro; Kubo, Tetsuya; and Yamauchi, Yukio, 4,661,320, C
    422-86.000.
  - Kajii, Shigeru; Honma, Hiroshi; and Narumiya, Junichi, 4,651,0
    Cl. 250-573.000.
  - Katagiri, Fujio; Atsumi, Haruyuki; Anzai, Hisatugu; and Kasahar
    Noboru, 4,656,690, Cl. 16-48.500.
  - Matsushita, Eige; and Nagashima, Tetsuya, 4,644,331, C
    340-587.000.
  - Sugiyama, Tadashi; and Yamauchi, Yukio, 4,704,536, C
    250-381.000.
- Hochiki Kabushiki Kaisha: *See—*
  - Arai, Yoshio; Kitajima, Akira; and Akiba, Kouji, 4,706,760, C
    169-61.000.
  - Ishii, Hiromitsu, 4,675,661, Cl. 340-630.000.
- Hochkoenig, Manfred: *See—*
  - Kretschmer, Helmut; and Hochkoenig, Manfred, 4,673,206, C
    296-1.00S.
- Hochkonig, Manfred: *See—*
  - Reichel, Anton; Lohmann, Bernard; Kolb, Eugen; Hochkonig,
    Manfred; Burst, Hermann; and Kretschmer, Helmut, 4,690,20
    Cl. 165-44.000.
- Hochman, Howard: *See—*
  - Rosser, William D.; and Hochman, Howard, 4,652,886, C
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- Hochsattel, Siegmar-J., to Mannesmann Rexroth GmbH. Driving
  for a feed pump. 4,646,518, 3-3-87, Cl. 60-413.000.
- Hochspach, Edgar: *See—*
  - Bischofberger, Walter; Eichholzer, Heinz; Graber, Werner; Ta
    Jiri; Hochspach, Edgar; and Luthi, Werner, 4,670,632, Cl. 20
    144.0AP.
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  Alan B.; and Sidhu, Gursharan S., to Apple Computer, Inc. Loca
  area network with carrier sense collision avoidance. 4,661,9
  4-28-87, Cl. 364-200.000.
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  - Sidhu, Gursharan S.; Oppenheimer, Alan B.; Kenyon, Lawren
    A., Jr.; and Hochsprung, Ronald R., 4,689,786, Cl. 370-94.00
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  Torque sensor for automotive power steering systems. 4,712,4
  12-15-87, Cl. 73-862.360.
- Hochstein, Peter A. Oil degradation and temperature monitor.
  4,635,473, 1-13-87, Cl. 73-118.100.
- Hochstein, Peter A. Rain sensor. 4,703,237, 10-27-87, Cl. 318-483.00
- Hochstein, Peter A.; and Imai, Nobuyuki, to Ai Sin Seiki Kabushiki
  Kaisha. Torque sensor. 4,712,432, 12-15-87, Cl. 73-862.360.
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  315-82.000.
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  - Bronstert, Klaus; Hochstein, Waldhelm; Mohr, Heinrich; Sand
    rock, Gerhard; Vogel, Hans-Henning; and Rath, Hans P.,
    4,663,406, Cl. 526-204.000.
- Hochstim, Richard. Boardless maze game. 4,674,753, 6-23-87, C
  273-258.000.
- Hochtemperatur-Kernkraftwerk GmbH (H K G): *See—*
  - Schweiger, Fritz, 4,661,312, Cl. 376-283.000.
- Hochtemperatur-Reaktorbau GmbH: *See—*
  - Ehlers, Claus; and Schoening, Josef, 4,698,203, Cl. 376-343.00
  - Elter, Claus; and Schoening, Josef, 4,696,790, Cl. 376-296.000.
  - Froening, Helmut; and Basyouni, Mohamed, 4,637,175, C
    52-27.000.
  - Nicolai, Rainer; Wachholz, Winfried; and Weicht, Ulrich,
    4,645,641, Cl. 376-283.000.
  - Presser, Wolfgang; and von Charzewski, Cornelia, 4,636,350, C
    376-226.000.
  - Schoening, Josef; and Schwiers, Hans-Georg, 4,643,872, C
    376-296.000.
  - Schoening, Josef; Schmiedel, Fritz; Handel, Hubert; and Hobrecker, Hans-Peter, 4,654,189, Cl. 376-265.000.
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  - Schoening, Josef; Schmiedel, Fritz; Hobrecker, Peter; and Winkenbach, Helmut, 4,661,311, Cl. 376-266.000.
  - Schoening, Josef; Elter, Claus; and Becker, Gerhard, 4,661,313, C
    376-295.000.
  - Schoening, Josef, 4,664,871, Cl. 376-219.000.
  - Schoening, Josef, 4,675,155, Cl. 376-458.000.
  - Schoening, Josef; Elter, Claus; and Rautenberg, Jurgen, 4,692,301,
    Cl. 376-391.000.
  - Schoening, Josef; Wachholz, Winfried; and Weicht, Ulrich,
    4,701,298, Cl. 376-273.000.
  - Schoening, Josef; and Elter, Claus, 4,713,213, Cl. 376-299.000.
  - Wachholz, Winfried; and Weicht, Ulrich, 4,689,194, Cl.
    376-299.000.
  - Wachholz, Winfried; and Weicht, Ulrich, 4,698,202, Cl.
    376-300.000.
  - Wachholz, Winfried; and Weicht, Ulricht, 4,713,211, Cl.
    376-238.000.
- Hochtief Aktiengesellschaft vorm. Gebr. Helfmann: *See—*
  - Babendererde, Siegmund; Hillemeier, Bernd; and Braach, Ott
    4,687,374, Cl. 405-146.000.
  - Hentschel, Volker, 4,640,646, Cl. 405-141.000.

Hillemeier, Bernd; and Wichern, Rolf, 4,670,315, Cl. 428-36.000.

Hochuli, Erich: *See—*

Eggimann, Bernhard; Hochuli, Erich; and Schacher, Alfred, 4,716,219, Cl. 530-413.000.

Hock, Darryl A.: *See—*

Kaleita, David L.; Zboralski, James A.; and Hock, Darryl A., 4,674,115, Cl. 379-201.000.

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Hockaday, Robert G. Fuel cell. 4,673,624, 6-16-87, Cl. 429-41.000.

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Nehmer, Carl A.; and Hocken, Lary R., 4,684,866, Cl. 318-696.000.

Hocken, Robert J.: *See—*

Lau, Kam C.; and Hocken, Robert J., 4,714,339, Cl. 356-4.500.

Hockenberger, Lothar: *See—*

Bergmann, Franz-Josef; Hockenberger, Lothar; Endruschen, Peter; and Paehler, Ralf, 4,689,395, Cl. 528-374.000.

Hockenberry, Jack; and Abraham, Leslie R., to Wenger Corporation. Stackable adjustable musician's chair. 4,671,570, 6-9-87, Cl. 297-337.000.

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Jager, Tilo; Tonsmann, Armin; Habicht, Siegfried; and Hocker, Eitel, 4,646,408, Cl. 29-243.500.

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Hocker, Hartwig: *See—*

Eichenauer, Herbert; Lindner, Christian; Ott, Karl-Heinz; Orth, Peter; and Hocker, Hartwig, 4,699,967, Cl. 528-29.000.

Hocker, Jurgen: *See—*

Jonas, Friedrich; and Hocker, Jurgen, 4,663,078, Cl. 252-500.000.

Hockersmith, Dan T.; and Gilbert, Joe W., to Texas Instruments Incorporated. Plasma etch movable substrate. 4,661,196, 4-28-87, Cl. 156-345.000.

Hockersmith, Dan T.: *See—*

Davis, Cecil J.; Spencer, John E.; Hockersmith, Dan T.; Hildenbrand, Randall C.; Brown, Frederick W.; and Kohan, Stanford P., 4,657,620, Cl. 156-345.000.

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Hockert, Eric N., to Minnesota Mining and Manufacturing Company. Transparent retroreflective sheets containing directional images and method for forming the same. 4,688,894, 8-25-87, Cl. 350-105.000.

Hockert, Eric N.: *See—*

Porter, Gerald R.; Bradshaw, Thomas I.; and Hockert, Eric N., 4,691,993, Cl. 350-105.000.

Hockett Systems, Inc.: *See—*

Hockett, Wayne B., 4,666,193, Cl. 285-334.300.

Hockett, Wayne B. Coupling apparatus. 4,666,188, 5-19-87, Cl. 285-38.000.

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Hoda, Masakazu: *See—*

Nishiguchi, Yasuo; Minami, Keijirou; and Hoda, Masakazu, 4,701,769, Cl. 346-76.0PH.

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Hodate, Tomoshi; and Nitta, Haruyoshi, to Kashiwa Co., Ltd. Combustion apparatus and method of forcibly circulating a heating medium in a combustion apparatus. 4,662,839, 5-5-87, Cl. 431-115.000.

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Hodek, Robert B.; and Seiner, Jerome A., to PPG Industries, Inc. Process for the preparation of an organomagnesium compound. 4,683,344, 7-28-87, Cl. 568-716.000.

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Hughes, John G.; Hodek, Thomas R.; and Hamlin, Wayne, 4,664,494, Cl. 354-234.100.

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Hodge, Allan M. Permanent padlock-chain assembly. 4,694,667, 9-22-87, Cl. 70-49.000.

Hodge, Deborah T.: *See—*

Jenkins, Waylon L.; Hodge, Deborah T.; and Sampson, Kendree J., 4,649,186, Cl. 526-87.000.

Hodge, Edwin S.: *See—*

Saller, Henry A., deceased; Hodge, Edwin S.; Paprocki, Stanley J.; and Dayton, Russell W., 4,709,848, Cl. 228-159.000.

Hodge, Harold F., to Cook's Truck Body Mfg., Inc. Counterbalanced tailgate for dump boxes. 4,691,956, 9-8-87, Cl. 296-51.000.

Hodge, Ian M., to B.F. Goodrich Company, The. Method of enhancing the flexibility of polypyrrole structures. 4,642,331, 2-10-87, Cl. 528-492.000.

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Hodge, James D.; and Lee, Kiu-Seung, to Du Pont de Nemours, E. I., and Company. Solvent system comprising N-alkyl substituted amide and quaternary ammonium compound. 4,684,409, 8-4-87, Cl. 106-311.000.

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Hodge, Robert R. Backflow preventing attachment for toilets. 4,637,079, 1-20-87, Cl. 4-427.000.

Hodge, William E., to Phoenix Engineering Ltd. Method and apparatus for constructing an underwater fill. 4,664,557, 5-12-87, Cl. 405-223.000.

Hodgens, Henry M., II; and Cellich, William A., to United Technologies Corporation. Method for cleaning a gas turbine engine. 4,713,120, 12-15-87, Cl. 134-3.000.

Hodgens, Tony D.: *See—*

Barley, Thomas A.; Hodgens, Tony D.; and Rast, Gustaf J., Jr., 4,673,940, Cl. 342-192.000.

Hodges, Bobby R.: *See—*

Moldovan, Nicholas; and Hodges, Bobby R., 4,649,675, Cl. 52-27.000.

Hodges, Charles R., to Telmos Incorporated. Photovoltaic relay switch. 4,665,316, 5-12-87, Cl. 250-551.000.

Hodges, Daryl H. Examining apparatus. 4,696,546, 9-29-87, Cl. 350-235.000.

Hodges, Donald F. Boat-trailer latch. 4,641,598, 2-10-87, Cl. 114-344.000.

Hodges, Jimmie R., to Pennwalt Corporation. Electrolytic cell and anode for brine electrolytes. 4,657,652, 4-14-87, Cl. 204-269.000.

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Taylor, John W., Jr.; and Hodges, Michael J., 4,649,389, Cl. 342-123.000.

Hodges, Philip R. Masonry construction device. 4,689,931, 9-1-87, Cl. 52-442.000.

Hodges, Robert E.; Bell, John R., III; and Helgesen, Peter E., to AMCA International. Insulated roofing structure. 4,651,489, 3-24-87, Cl. 52-409.000.

Hodges, Robert E., Jr.: *See—*

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Hodges, Robert J., to International Standard Electric Corporation. Push-button switch. 4,644,315, 2-17-87, Cl. 338-2.000.

Hodges, Robert J.: *See—*

Greenwood, John C.; Hodges, Robert J.; and Sheppard, Robert, 4,691,117, Cl. 307-119.000.

Hodges, Ronald R. Bed access apparatus for invalids and handicapped. 4,642,824, 2-17-87, Cl. 5-81.00R.

Hodges, Steven E.: *See—*

Kern, Mark T.; Hodges, Steven E.; Snider, Danny G.; and Shamordola, Kenneth A., 4,701,624, Cl. 250-554.000.

Hodges, Virgil D. Self adjusting belt tightening tool. 4,708,320, 11-24-87, Cl. 254-129.000.

Hodges, William D.: *See—*

Sheath, Jeremy C.; and Hodges, William D., 4,643,130, Cl. 118-681.000.

Hodgetts, Graham L. Ventilator-mounted receptacle and mounting means therefor. 4,653,289, 3-31-87, Cl. 62-239.000.

Hodgins, George R., to James River Graphics, Inc. Anti-brick/antistatic compositions useful for treating film surfaces and films coated therewith. 4,703,000, 10-27-87, Cl. 430-493.000.

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Gregor, Harry P.; Dalven, Paul I.; Hildebrandt, James R.; Hodgins, Leonard T.; Laccetti, Anthony J.; and Shamir, Abraham, 4,705,753, Cl. 435-180.000.

Hodgins, Lorne H. Canoe seat and oar lock unit. 4,672,911, 6-16-87, Cl. 114-363.000.

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Krumme, John F.; and Hodgson, Darel E., 4,675,472, Cl. 174-52.0FP.

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Maycock, Ian C.; and Hodgson, Derek, 4,691,815, Cl. 192-98.000.

Hodgson, Earl L., to Canadian Patents and Development Limited. Combination locks. 4,708,006, 11-24-87, Cl. 70-303.00R.

Hodgson, Michael L.: *See—*

Sandland, Paul; Levy, Kenneth; Singleton, Russell M.; Hodgson, Michael L.; and Cutler, Gerald R., 4,644,172, Cl. 250-548.000.

Hodgson, Patricia. Press apparatus with eccentric cam for compacting waste soap. 4,655,702, 4-7-87, Cl. 425-318.000.

Hodgson, Peter W.: *See—*

Ouellette, Roland J.; Hodgson, Peter W.; and Trepanier, Roland J., 4,644,174, Cl. 250-559.000.

Hodgson, Robert E.: *See—*

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Hodgson, Thomas C., to Strong Plastics Limited. Laminating methods and apparatus using resilient faced rollers. 4,680,077, 7-14-87, Cl. 156-321.000.

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Hodkin, George A.; and Blane, Roger H., to Associated Electrical Industries Limited. Switch selector mechanism. 4,681,988, 7-21-87, Cl. 200-17.00R.

Hodkinson, Harold, to Automotive Products Limited. Automatic wear adjuster for drum brakes. 4,653,615, 3-31-87, Cl. 188-79.50P.

Hodler, Robert: *See—*

Aschwanden, Paul; and Hodler, Robert, 4,699,063, Cl. 102-498.000.

Hodlewsky, Wasyly G., to Rexnord Inc. Key apparatus. 4,711,605, 12-8-87, Cl. 403-355.000.

Hodne, Ingard B.: *See—*

Ray, Francis M.; and Hodne, Ingard B., 4,671,722, Cl. 414-32.000.

Hodo, James D.; Moore, Dennis R.; Morris, Thomas F.; and Tiller, Newton G., to United States of America, National Aeronautics and Space Administration. Fatigue testing a plurality of test specimens and method. 4,676,110, 6-30-87, Cl. 73-809.000.

Hodogaya Chemical Co., Ltd.: *See—*

Kaneko, Kazuo; Suzuka, Susumu; Gonda, Michihiro; and Kanasugi, Mikiko, 4,694,088, Cl. 549-226.000.

Kurosu, Yasuhisa; Kawada, Hiroshi; Kanasugi, Haruki; and Hosokawa, Akio, 4,696,947, Cl. 514-478.000.

Sensui, Hideyuki; Suzuka, Susumu; Gonda, Michihiro; and Kikkawa, Katsumasa, 4,642,663, Cl. 346-221.000.

Suzuki, Nobuo; Okamura, Kikuko; Sugiyama, Genpei; and Suzuka, Susumu, 4,683,188, Cl. 430-110.000.

Hodonsky, Joseph W., to General Motors Corporation. Hydraulic mount. 4,679,779, 7-14-87, Cl. 267-140.100.

Hodosh, Milton. Method for treating herpes virus. 4,654,212, 3-31-87, Cl. 424-127.000.

Hodozuka, Kunio: *See—*

Hoizumi, Shinichi; Abe, Norio; Ueno, Takeshi; Arakawa, Tadao; and Hodozuka, Kunio, 4,693,086, Cl. 60-663.000.

Hodroski, Frank S., Jr. Foot rest for toilet. 4,713,846, 12-22-87, Cl. 4-254.000.

Hodsall, Brian: *See—*

Rakowicz, Jan A.; and Hodsall, Brian, 4,704,054, Cl. 406-28.000.

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Hoeberechts, Arthur M. E., to U.S. Philips Corporation. Device for picking up or displaying images having an externally-mounted semiconductor cathode. 4,651,052, 3-17-87, Cl. 313-446.000.

Hoeberechts, Arthur M. E., to U.S. Philips Corporation. Radiation-sensitive semiconductor device having reduced capacitance. 4,652,899, 3-24-87, Cl. 357-29.000.

Hoeberechts, Arthur M. E.; and van Gorkom, Gerardus G. P., to U.S. Philips Corporation. Electron-beam device and semiconductor device for use in such an electron-beam device. 4,682,074, 7-21-87, Cl. 313-444.000.

Hoeberechts, Arthur M. E., to U.S. Philips Corporation. Device for signal processing and target plate for such a device. 4,691,191, 9-1-87, Cl. 340-347.00P.

Hoeberechts, Arthur M. E.; Van Hal, Henricus A. M.; Tolner, Harm; and Van Gorkom, Gerardus G. P., to U.S. Philips Corporation. Device for electron emission including device for providing work function-reducing layer and method of applying such a layer. 4,709,185, 11-24-87, Cl. 313-346.00R.

Hoebing, John L. Method and apparatus for 3-D image synthesis. 4,669,812, 6-2-87, Cl. 350-3.730.

Hoechamer, Horst: *See—*

Finck, Albin; Gieixner, Ronald; Hoechamer, Horst; and Pieper, Wolfgang, 4,660,015, Cl. 336-192.000.

Hoechst Aktiengesellschaft: *See—*

Aigner, Rudolf; Blaschke, Gunter; and Muller, Gunther, 4,670,5 Cl. 564-296.000.

Aretz, Werner; Berscheid, Hans G.; Huber, Gerhard; Fehlhaber, Hans-Wolfram; Kraemer, Hans P.; Sedlacek, Hans-Harald; Ganguli, Bimal N.; Sood, Ratan S.; Gandhi, Julia; and Reddy, Gan-napalli C., 4,713,371, Cl. 514-34.000.

Arndt, Otto; and Papenfuhs, Theodor, 4,658,034, Cl. 548-217.000.

Arpe, Hans-Jurgen; Litterer, Heinz; and Mayer, Norbert, 4,650,91 Cl. 570-202.000.

Bader, Rolf; Last, Hartmut; Mayer, Manfred; Rittner, Siegbert; and Wetzel, Edgar, 4,683,034, Cl. 203-43.000.

Bathelt, Heinrich; Ehrl, Winfried; Wehowsky, Frank; Kleber, Rolf; Lotz, Werner; Glenz, Wolfgang; Herdt, Hubert; Jackel, Lothar; Mast, Jan-Hilbert; Hintermeier, Karl; and Muller, Manfred, 4,709,074, Cl. 560-33.000.

Bauer, Klaus; Bieringer, Hermann; and Schumacher, Hans, 4,645,526, Cl. 71-88.000.

Bender, Albert; Gunther, Dieter; Willms, Lothar; and Winge Rainer, 4,650,902, Cl. 564-80.000.

Bender, Albert; and Guenther, Dieter, 4,709,026, Cl. 544-3.000.

Betz, Thomas; von Schnering, Hans-Georg; and Schonherr, Eric 4,692,203, Cl. 156-610.000.

Bicker, Richard; and Seipke, Gerhard, 4,644,057, Cl. 530-409.000.

Bieringer, Hermann; and Schwerdtle, Friedhelm, 4,692,181, C 71-86.000.

Billenstein, Siegfried; Kukla, Bruno; and Stuhler, Herbert, 4,668,439, Cl. 260-410.90R.

Blickle, Peter, 4,640,750, Cl. 204-79.000.

Blocker, Erich, 4,661,579, Cl. 528-170.000.

Bonnke, Martin; and Bothe, Lothar, 4,649,171, Cl. 524-381.000.

Bonnke, Martin; and Bothe, Lothar, 4,670,499, Cl. 524-427.000.

Bothe, Lothar; and Crass, Guenther, 4,698,261, Cl. 428-204.000.

Brandt, Lothar; and Felcht, Utz-Hellmuth, 4,638,058, C 536-103.000.

Brindopke, Gerhard; and Johannes, Gerhard, 4,657,962, C 524-362.000.

Buhr, Gerhard, 4,696,888, Cl. 430-270.000.

Clauss, Karl; Linkies, Adolf; and Reuschling, Dieter, 4,638,063, C 544-2.000.

Clauss, Karl; Linkies, Adolf; and Reuschling, Dieter, 4,695,629, C 544-2.000.

Cooke, Michael D.; and Ross, Barry C., 4,684,640, Cl. 514-195.000.

Crass, Guenther; Bursch, Annegrete; and Hammerschmidt, Peter, 4,673,611, Cl. 428-215.000.

Crass, Guenther; Bothe, Lothar; and Schloegl, Gunter, 4,692,8 Cl. 361-313.000.

Crass, Gunther; Janocha, Siegfried; and Bothe, Lothar, 4,652,48 Cl. 428-337.000.

Dapperheld, Steffen, 4,707,226, Cl. 204-81.000.

Deckers, Hellmuth, 4,636,557, Cl. 528-126.000.

Dettbarn, Hans-Jurgen; and Zimmermann, Josef, 4,642,095, C 604-72.000.

Dittmar, Walter; Futterer, Eberhard; and Lohaus, Gerhard, 4,711,775, Cl. 424-70.000.

Doessel, Karl-Friedrich; and Lingnau, Juergen, 4,654,283, C 430-57.000.

Dossel, Karl-Friedrich; and Lingnau, Jurgen, 4,652,507, C 430-57.000.

Driscoll, Robert K.; Leupold, Ernst I.; and Ebertz, Wolfgang, 4,692,547, Cl. 560-186.000.

Durl, Bernd; Bos, Johannes; Ong, Sienling; Raffel, Peter; and Brozat, Kurt, 4,680,033, Cl. 8-449.000.

Dursch, Walter; Herwig, Walter; and Engelhardt, Friedrich, 4,696,987, Cl. 526-216.000.

Eberl, Karl, 4,665,113, Cl. 524-156.000.

Elsner, Georg; Staendeke, Horst; and Heymer, Gero, 4,639,331, C 252-609.000.

Engel, Dieter; and Rinno, Helmut, 4,665,142, Cl. 526-87.000.

Engelmann, Manfred; Kraus, Helmut; and Plewan, Otto, 4,636,54 Cl. 524-523.000.

Engels, Joachim, 4,678,609, Cl. 260-397.450.

Englert, Heinrich C.; Lang, Hans-Jochen; Mania, Dieter; and Bickel, Martin, 4,661,636, Cl. 568-31.000.

Erpenbach, Heinz; Gehrmann, Klaus; Lork, Winfried; and Prinz, Peter, 4,664,753, Cl. 203-29.000.

Ertl, Josef; and Wiezer, Hartmut, 4,689,416, Cl. 546-19.000.

Espenschied, Bernd; and Klein, Peter, 4,705,844, Cl. 528-275.000.

Farnung, Winfried, 4,655,883, Cl. 204-59.00F.

Felcht, Utz-Hellmuth; and Buchberger, Gerhard, 4,650,863, C 536-90.000.

Fernholz, Hans; Krekeler, Hans; Roscher, Gunter; Schmidt, Hans-Joachim; Schmitz, Heinz; and Wunder, Friedrich, 4,668,819, C 560-245.000.

Fischer, Edgar; and Schlingmann, Merten, 4,703,117, C 536-114.000.

Fock, Kurt; Hermann, Hans D.; Fabian, Klaus; and Ebigt, Joachim, 4,663,235, Cl. 428-437.000.
Franke, Werner; and Brahm, Richard, 4,657,836, Cl. 430-83.000.
Franke, Werner; and Brahm, Richard, 4,663,261, Cl. 430-93.000.
Franke, Werner; and Brahm, Richard, 4,681,827, Cl. 430-83.000.
Frommeld, Hans-Dieter; Lutz, Walter; and Steppan, Hartmut, 4,659,645, Cl. 430-175.000.
Fuchs, Fritz-Reichard; and Staendeke, Horst, 4,670,484, Cl. 523-205.000.
Fuchs, Fritz-Reichard; and Staendeke, Horst, 4,701,373, Cl. 428-326.000.
Furrer, Harald; Anagnostopulos, Hiristo; and Gebert, Ulrich, 4,713,455, Cl. 544-267.000.
Gawrisch, Wolfgang, 4,684,487, Cl. 264-22.000.
Gawrisch, Wolfgang; Valentin, Walter; and Czepl, Helmut, 4,692,026, Cl. 356-345.000.
Geiger, Rolf; Teetz, Volker; and Langner, Dietrich, 4,668,796, Cl. 548-452.000.
Geiger, Rolf; Gerhards, Hermann; and Kruse, Hansjorg, 4,696,913, Cl. 514-15.000.
Geissler, Ulrich; and Lampas, Heide, 4,695,527, Cl. 430-256.000.
Geissler, Ulrich; and Albrecht, Klaus, 4,705,740, Cl. 430-288.000.
Grabley, Susanne, 4,638,086, Cl. 562-401.000.
Gradl, Reinhard; and Heymer, Gero, 4,678,650, Cl. 423-309.000.
Granzer, Ernold; and Kampe, Klaus-Dieter, 4,705,792, Cl. 514-275.000.
Grau, Ulrich, 4,639,332, Cl. 530-303.000.
Grau, Ulrich, 4,701,440, Cl. 514-3.000.
Graun, Karl; and Rauterkus, Karl J., 4,668,749, Cl. 526-245.000.
Gross, Jurgen; and Dinges, Reinhard, 4,643,580, Cl. 356-440.000.
Gunther, Dieter, 4,691,056, Cl. 564-96.000.
Guzzi, Alberto, 4,696,891, Cl. 430-325.000.
Haas, Raimund; Engel, Dieter; and Helwerth, Rainer, 4,668,410, Cl. 252-49.300.
Hahnke, Manfred; Kuhn, Reinhard; Hahnle, Reinhard; and Schickfluss, Rudolf, 4,689,050, Cl. 8-639.000.
Hahnke, Manfred; and Segal, Marcos, 4,705,524, Cl. 8-527.000.
Hammer, Klaus-Dieter; Siebrecht, Manfred; Wallhausser, Karl-Heinz; and Winter, Hermann, 4,662,403, Cl. 138-118.100.
Hammer, Klaus-Dieter; Siebrecht, Manfred; and Winter, Hermann, 4,666,750, Cl. 428-36.000.
Hammer, Klaus-Dieter; Winter, Hermann; and Kinzler, Ulrich, 4,670,273, Cl. 426-105.000.
Handte, Reinhard; Mildenberger, Hilmar; Bauer, Klaus; and Bieringer, Hermann, 4,668,276, Cl. 71-88.000.
Heidel, Peter; Kaulich, Franz; and Artus, Heinz, 4,657,801, Cl. 428-137.000.
Heinrich, Rudolf; and Albrecht, Konrad, 4,638,090, Cl. 564-437.000.
Heiskel, Elmar; and Blank, Thomas, 4,647,395, Cl. 252-174.210.
Heist, Hans; Toepfer, Dieter; and Britzke, Sylvia, 4,678,310, Cl. 354-319.000.
Henning, Rainer; and Urbach, Hansjorg, 4,684,662, Cl. 548-452.000.
Henning, Rainer; and Urbach, Hansjorg, 4,691,022, Cl. 548-408.000.
Hensel, Hartmut; and Dallmann, Hermann, 4,687,699, Cl. 428-213.000.
Hensel, Hartmut; and Dallmann, Hermann, 4,687,700, Cl. 428-213.000.
Hertel, Hasso; Hunger, Klaus; and Frolich, Heinrich, 4,696,675, Cl. 8-669.000.
Hesse, Wolfgang; Settelmeyer, Richard; and Teschner, Eckart, 4,690,692, Cl. 51-293.000.
Heubach, Gunther; Bauer, Klaus; and Bieringer, Hermann, 4,639,266, Cl. 71-92.000.
Hilger, Manfred; and Klein, Norbert, 4,698,292, Cl. 430-273.000.
Ho[illegible]ldt, Ernst; and Urschel, Adam, 4,686,097, Cl. 423-520.000.
Humke, Rainer, 4,673,665, Cl. 514-15.000.
Hundeck, Joachim; Scholz, Harald; Hennen, Hans; Kuxdorf, Bernhard; and Pusche, Herbert, 4,672,142, Cl. 570-247.000.
Hunger, Klaus; Frolich, Heinrich; and Lenz, Hans-Joachim, 4,665,163, Cl. 534-746.000.
Hunger, Klaus, 4,677,200, Cl. 534-742.000.
Hunger, Klaus, 4,686,287, Cl. 534-742.000.
Janocha, Siegfried; Crass, Guenther; Bothe, Lothar; and Schloegl, Gunter, 4,663,219, Cl. 428-213.000.
Just, Christoph; Plath, Dieter; and Walz, Gerd, 4,704,442, Cl. 526-273.000.
Just, Christoph; Plath, Dieter; and Walz, Gerd, 4,705,885, Cl. 560-158.000.
Kammerer, Friedrich-Johannes; and Schleyerbach, Rudolf, 4,636,513, Cl. 514-326.000.
Kaulich, Franz, 4,683,164, Cl. 428-287.000.
Kehne, Heinz; Mildenberger, Hilmar; Bauer, Klaus; and Bieringer, Hermann, 4,652,666, Cl. 558-175.000.
Keil, Karl-Heinz; Wullbrandt, Dieter; Keller, Reinhold; and Engelhardt, Friedrich, 4,686,243, Cl. 521-149.000.
Keller, Reinhold; and Schlingmann, Merten, 4,649,111, Cl. 435-89.000.
Keller, Reinhold, 4,709,075, Cl. 560-41.000.
Kessler, Horst; Kutscher, Bernhard; Obermeier, Rainer; and Mullner, Hubert, 4,650,788, Cl. 514-11.000.
Kiessling, Hans-Joachim, 4,704,437, Cl. 525-327.300.
Kirrstetter, Reiner; Durckheimer, Walter; Lattrell, Rudolf; and Schwab, Wilfried, 4,692,516, Cl. 540-222.000.
Kleiner, Hans-Jerg, 4,656,293, Cl. 549-6.000.
Kleiner, Hans-Jerg, 4,670,191, Cl. 260-502.50F.
Kleiner, Hans-Jerg; and Weiss, Erwin, 4,670,601, Cl. 568-14.000.
Kleiner, Hans-Jerg; Kloss, Gerhard; Molter, Michael; Schwarz, Alexander; and Thamm, Horst-Dieter, 4,693,884, Cl. 424-1.100.
Kleiner, Hans-Jerg, 4,708,824, Cl. 260-543.00P.
Kolkmann, Friedrich; Ressel, Herbert; Gradl, Reinhard; and Schimmel, Gunther, 4,683,127, Cl. 423-321.00R.
Konig, Wolfgang; Geiger, Rolf; Obermeier, Rainer; and Mullner, Hubert, 4,658,016, Cl. 530-330.000.
Konig, Wolfgang; Engels, Joachim; Uhlmann, Eugen; and Wetekam, Waldemar, 4,711,847, Cl. 435-70.000.
Konz, Elmar; and Kaiser, Joachim, 4,673,682, Cl. 514-307.000.
Krakkay, Tibor; Poggi, Tatjana; and Schubert, Ernst, 4,673,721, Cl. 526-329.300.
Krakkay, Tibor; Poggi, Tatjana; and Schubert, Ernst, 4,683,286, Cl. 525-329.100.
Kressirer, Rudolf; and Oehler, Siegfried, 4,683,410, Cl. 318-696.000.
Kuehnert, Egbert, 4,672,872, Cl. 83-171.000.
Kuehnert, Egbert, 4,693,363, Cl. 198-807.000.
Kuehnert, Hans-Guenter E., 4,643,415, Cl. 271-268.000.
Kuehnert, Hans-Guenter E., 4,676,862, Cl. 156-555.000.
Lattrell, Rudolf; Kirrstetter, Reiner; Schwab, Wilfried; Durckheimer, Walter; and Seibert, Gerhard, 4,647,556, Cl. 514-206.000.
Lehmann, Peter; and Michel, Manfred, 4,680,244, Cl. 430-66.000.
Lerch, Ulrich, 4,659,838, Cl. 548-452.000.
Limbert, Michael; Durckheimer, Walter; Schorlemmer, Hans-Ulrich; and Dickneite, Gerhard, 4,701,452, Cl. 514-206.000.
Lingnau, Jurgen, 4,668,600, Cl. 430-83.000.
Lotz, Werner; Fuchs, Karlheinz; and Haller, Siegmund, 4,715,861, Cl. 8-94.180.
Luft, Gerhard; and Ritter, Gebhard, 4,657,884, Cl. 502-161.000.
Lutz, Walter; and Steppan, Hartmut, 4,661,432, Cl. 430-175.000.
Mack, Gerhard; Mueller, Birgit; Jung, Guenter; and Frass, Werner, 4,716,098, Cl. 430-331.000.
May, Adolf; Bucking, Hans-Walter; and Schreiber, Manfred, 4,659,487, Cl. 252-8.800.
Meininger, Fritz; Otten, Joachim W., deceased; Otten, Ursula, heir; and Rudolph nee Otten, Anna G., heir, 4,649,193, Cl. 534-622.000.
Meininger, Fritz; Mischke, Peter; Konig, Gerd; and Springer, Hartmut, 4,693,726, Cl. 8-547.000.
Meininger, Fritz; and Schlafer, Ludwig, 4,707,545, Cl. 534-588.000.
Metz, Hans J., 4,710,322, Cl. 260-511.000.
Metz, Hans J., 4,715,995, Cl. 260-511.000.
Mischke, Peter; and Fuchs, Hermann, 4,652,634, Cl. 534-642.000.
Mischke, Peter; and Schlafer, Ludwig, 4,703,112, Cl. 534-642.000.
Muck, Karl-Friedrich; and Burg, Karlheinz, 4,703,129, Cl. 549-368.000.
Muller, Albrecht; and Zimmermann, Wolfgang, 4,656,216, Cl. 524-381.000.
Muller, Heinz; Lohmar, Elmar; and Scholz, Harald, 4,678,482, Cl. 55-71.000.
Neeb, Rudolf; and Mohr, Reinhard, 4,638,053, Cl. 534-589.000.
Neumann, Wolfgang; and Hendriock, Hans-Jurgen, 4,670,503, Cl. 524-520.000.
Obermeier, Rainer; Geiger, Rolf; and Grau, Ulrich, 4,639,333, Cl. 530-303.000.
Obermeier, Rainer; Teetz, Volker; and Ludwig, Jurgen, 4,677,192, Cl. 530-305.000.
Obermeier, Rainer; Salomon, Ingeborg; and Ludwig, Jurgen, 4,681,931, Cl. 530-351.000.
Ohlendorf, Dieter; Hoffmann, Heinz; Interthal, Werner; and Pintschovius, Ulrich, 4,705,860, Cl. 546-347.000.
Papenfuhs, Theodor; and Schophoff, Friedrich, 4,686,301, Cl. 549-427.000.
Peiffer, Herbert; and Eberhardt, Horst, 4,678,339, Cl. 366-76.000.
Penina-Surinach, Pere, 4,705,754, Cl. 435-287.000.
Pieper, Werner, 4,645,835, Cl. 544-190.000.
Pieper, Werner, 4,692,281, Cl. 260-502.40R.
Pieper, Werner, 4,692,282, Cl. 260-502.40P.
Pistorius, Rudolf, 4,680,147, Cl. 260-513.00R.
Pliefke, Engelbert, 4,661,219, Cl. 204-129.750.
Pliefke, Engelbert, 4,666,576, Cl. 204-129.750.
Pliefke, Engelbert, 4,671,859, Cl. 204-129.950.
Plum, Helmut, 4,710,556, Cl. 526-273.000.
Pospich, Gunther; and Gutte, Richard, 4,678,832, Cl. 525-60.000.
Puhler, Alfred; Wolleben, Wolfgang; and Leineweber, Michael, 4,673,642, Cl. 435-91.000.
Quack, Jochen M.; Reng, Alwin; Skrypzak, Werner; and Kunz, Walter, 4,654,163, Cl. 252-312.000.
Ramloch, Herbert; Seidel, Manfred; Lause, Joachim; and Waldmann, Karl, 4,658,052, Cl. 560-155.000.
Reiss, Kurt; Niederstatter, Walter; Stroszynski, Joachim; Bohm, Dieter; and Sprintschnik, Gerhard, 4,655,136, Cl. 101-459.000.
Reiss, Kurt; and Niederstatter, Walter, 4,672,022, Cl. 430-278.000.
Ressel, Herbert; Haas, Hans; and Krause, Johannes, 4,642,224, Cl. 423-321.00R.
Ressel, Herbert; and Westphal, Wilhelm, 4,705,671, Cl. 422-189.000.
Rewitzer, Siegfried, 4,687,462, Cl. 493-100.000.
Richter, Wolfgang; and Durl, Bernd, 4,640,691, Cl. 8-543.000.
Rieck, Hans-Peter, 4,664,839, Cl. 252-175.000.
Rieck, Hans-Peter; Schott, Martin; and Russow, Jurgen, 4,703,029, Cl. 502-243.000.
Roos, Wouter; Damman, Bernardus J.; Lagendijk, Arie; Steidl, Dieter; and von Schenck, Raban, 4,670,244, Cl. 423-659.000.

- Rosner, Manfred; Loewe, Heinz; Duwel, Dieter; and Kirsch, Reinhard, 4,639,463, Cl. 514-395.000.
- Rosner, Manfred; and Raether, Wolfgang, 4,640,917, Cl. 514-222.000.
- Sattelmeyer, Richard; and Weil, Joachim, 4,652,612, Cl. 525-215.000.
- Sattelmeyer, Richard, 4,699,832, Cl. 428-36.000.
- Schiessler, Siegfried; and Spietschka, Ernst, 4,684,753, Cl. 570-206.000.
- Schimmel, Gunther; and Gradl, Reinhard, 4,640,824, Cl. 423-185.000.
- Schimmel, Gunther; Gradl, Reinhard; and Heymer, Gero, 4,668,492, Cl. 423-321.00R.
- Schimmel, Gunther; Kowalski, Werner; Heymer, Gero; and Gradl, Reinhard, 4,705,529, Cl. 23-293.00R.
- Schimmel, Gunther; and Gradl, Reinhard, 4,713,229, Cl. 423-321.00R.
- Schinzel, Erich, 4,675,402, Cl. 544-219.000.
- Schlingmann, Merten; Hoppe, Hans-Ullrich; and Dursch, Walter, 4,709,086, Cl. 560-171.000.
- Schlogl, Gunter; Mack, Gerhard; and Michel, Manfred, 4,687,726, Cl. 430-175.000.
- Schmitt, Klaus; Schoen, Klaus-Peter; Riedel, Peter; Lingnau, Juergen; and Pliefke, Engelbert, 4,684,594, Cl. 430-49.000.
- Schneller, Arnold; Herwig, Walter; and Erbes, Kurt, 4,678,737, Cl. 430-270.000.
- Schneller, Arnold; and Geissler, Ulrich, 4,699,867, Cl. 430-192.000
- Schoen, Klaus-Peter, 4,660,959, Cl. 355-3.00R.
- Schoen, Klaus-Peter, 4,708,452, Cl. 354-317.000.
- Schorr, Manfred; and Schmitt, Wilfried, 4,692,523, Cl. 540-533.000.
- Schrodter, Hermann; Braun, Albert; and Kampmann, Friedrich-Wilhelm, 4,687,512, Cl. 75-58.000.
- Schulze, Ernst-Friedrich; Burstell, Helmut; and Hacker, Erwin, 4,637,828, Cl. 71-76.000.
- Schwab, Wilfried; Durckheimer, Walter; Kirrstetter, Reiner; and Lattrell, Rudolf, 4,667,028, Cl. 540-222.000.
- Schwarz, Alexander, 4,666,698, Cl. 424-1.100.
- Schwinn, Horst; Heimburger, Norbert; Kumpe, Gerhard; and Herchenhan, Bernd, 4,670,544, Cl. 530-392.000.
- Segal, Marcos, 4,659,807, Cl. 534-642.000.
- Seifried, Walter; and Crass, Guenther, 4,716,068, Cl. 428-141.000.
- Siegel, Herbert; and Granzer, Ernold, 4,647,575, Cl. 514-396.000.
- Simon, Ulrich; and Beutel, Reiner, 4,650,739, Cl. 430-161.000.
- Simon, Ulrich; Beutel, Reiner; and Sprintschnik, Gerhard, 4,689,272, Cl. 428-448.000.
- Spietschka, Ernst; and Urban, Manfred, 4,650,879, Cl. 549-232.000.
- Spietschka, Ernst; and Urban, Manfred, 4,655,845, Cl. 106-309.000.
- Spietschka, Ernst; and Urban, Manfred, 4,689,087, Cl. 106-309.000.
- Spietschka, Ernst; and Prokschy, Frank, 4,693,753, Cl. 106-288.00Q.
- Spietschka, Ernst; and Urban, Manfred, 4,705,572, Cl. 106-288.00Q.
- Spietschka, Ernst; and Troster, Helmut, 4,709,029, Cl. 544-125.000.
- Springer, Hartmut; and Konig, Gerd, 4,659,856, Cl. 558-26.000.
- Staab, Rudolf; Bergner, Dieter; and Hannesen, Kurt, 4,639,303, Cl. 204-258.000.
- Stahlhofen, Paul, 4,639,406, Cl. 430-165.000.
- Stahlhofen, Paul, 4,642,282, Cl. 430-165.000.
- Strutzel, Hans, 4,659,599, Cl. 428-36.000.
- Sulzbach, Reinhard A.; and von Werner, Konrad, 4,692,493, Cl. 524-805.000.
- Thiem, Joachim; Deger, Hans-Matthias; Kolar, Cenek; and Kreuzer, Matthias, 4,659,810, Cl. 536-22.000.
- Thurow, Horst, 4,637,834, Cl. 106-124.000.
- Tripier, Dominique, 4,668,662, Cl. 514-12.000.
- Uhmann, Rainer; and Radscheit, Kurt, 4,691,008, Cl. 530-339.000.
- Ulrich, Hannsjorg; and Prestin, Peter, 4,676,909, Cl. 210-665.000.
- Urbach, Hansjorg; Henning, Rainer; Teetz, Volker; Wissman, Hans; and Becker, Reinhard, 4,668,797, Cl. 548-452.000.
- Urbach, Hansjorg; Henning, Rainer; Teetz, Volker; and Becker, Reinhard, 4,714,708, Cl. 514-412.000.
- Vorwerk, Edgar, 4,675,457, Cl. 568-638.000.
- Wallenfels, Kurt; and Fathy, Ahmed M., 4,716,222, Cl. 536-18.700.
- Wallisch, Heinz; Felcht, Uth H.; and Kostrzewa, Michael, 4,672,113, Cl. 536-85.000.
- Walz, Gerd; and Theiling, Ernst-August, 4,644,036, Cl. 525-386.000.
- Weiss, Erwin, 4,675,446, Cl. 568-14.000.
- Weithmann, Klaus U.; and Seiffge, Dirk, 4,694,024, Cl. 514-161.000.
- Welzel, Peter; Kunisch, Franz; Stein, Hermann; Hiltmann nee Ponty, Aranka; and Kruggel, Frithjof, 4,684,626, Cl. 514-25.000.
- Wess, Gunther; Bartmann, Wilhelm; Beck, Gerhard; and Lau, Hans-Hermann, 4,665,080, Cl. 514-341.000.
- Wiedemann, Wolfgang, 4,650,737, Cl. 430-59.000.
- Wiedemann, Wolfgang; and Guenther, Dieter, 4,666,812, Cl. 430-78.000.
- Wiedemann, Wolfgang; Spietschka, Ernst; and Troester, Helmut, 4,714,666, Cl. 430-59.000.
- Wolfram, Hans, 4,647,709, Cl. 570-209.000.
- Zeiss, Hans-Joachim; and Mildenberger, Hilmar, 4,692,541, Cl. 558-87.000.

Hoechst Celanese Corporation: *See—*

- Choe, Eui W., 4,711,532, Cl. 350-354.000.
- Gupta, Balaram B. G., 4,714,781, Cl. 568-319.000.
- Phillips, Thomas S.; and Corso, Anthony J., 4,699,624, Cl. 8-524.000.
- Sigler, Gerald F., 4,709,037, Cl. 546-271.000.
- Walls, John E.; Tellechea, Carlos; and Dhillon, Major S., 4,707,437, Cl. 430-523.000.

Hoechst CeramTec Aktiengesellscahft: *See—*

- Heinrich, Juergen; Krauth, Axel; Victor, Karl-Heinz; and Peeken, Heinz, 4,714,257, Cl. 277-1.000.

Hoechst CeramTec Aktiengesellschaft: *See—*

- Zeibig, Anton; Brigasky, Hans; and Lewand, Willi, 4,668,176, C 425-464.000.
- Ziebig, Anton; Brigasky, Hans; and Lewand, Willi, 4,710,123, C 425-464.000.

Hoechst Gosei Kabushiki Kaisha: *See—*

- Kimimura, Kyomi; Shimokawa, Wataru; and Igarashi, Toshibum 4,647,504, Cl. 428-327.000.
- Miyata, Seizo; and Ozio, Takeaki, 4,699,804, Cl. 437-176.000.
- Shimokawa, Wataru; and Fukumori, Katuaki, 4,708,821, C 512-12.000.

Hoechst-Roussel Pharmaceuticals Inc.: *See—*

- Effland, Richard C.; Davis, Larry; and Kapples, Kevin J. 4,667,039, Cl. 546-208.000.
- Effland, Richard C.; Davis, Larry; and Kapples, Kevin J. 4,681,879, Cl. 514-211.000.
- Glamkowski, Edward J.; and Chiang, Yulin, 4,663,453, C 540-556.000.
- Kosley, Jr., Raymond W.; and Seuring, Bernhard, 4,654,336, C 514-214.000.
- Kosley, Raymond W., Jr.; and Cherill, Robert J., 4,639,443, C 514-222.000.
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- Kosley, Raymond W., Jr.; and Cherill, Robert J., 4,666,904, C 514-222.000.
- Kosley, Raymond W., Jr.; and Cherill, Robert J., 4,668,791 C 546-221.000.
- Kosley, Raymond W., Jr.; and Cherill, Robert J., 4,672,115, C 544-58.200.
- Kosley, Raymond W., Jr.; and Cherill, Robert J., 4,673,752, C 549-389.000.
- Kosley, Raymond W., Jr.; and Cherill, Robert J., 4,677,103, C 514-222.000.
- Kosley, Raymond W., Jr.; and Cherill, Robert J., 4,695,637, C 546-207.000.
- Kreutzer, Donald L.; Novick, William J., Jr.; and Sheetz, Michael P., 4,636,507, Cl. 514-263.000.
- Lee, Thomas B. K.; and Lee, George E., 4,709,093, Cl. 564-220.000
- Martin, Lawrence L.; Setescak, Linda L.; and Scott, Susan J. 4,652,567, Cl. 514-254.000.
- Martin, Lawrence L.; Setescak, Linda L.; and Scott, Susan J. 4,670,562, Cl. 546-94.000.
- Ong, Helen H.; Anderson, Vernon B.; and Profitt, James A. 4,668,695, Cl. 514-431.000.
- Ong, Helen H.; and Profitt, James A., 4,672,138, Cl. 558-234.000
- Shutske, Gregory M., 4,644,064, Cl. 548-241.000.
- Shutske, Gregory M., 4,658,029, Cl. 546-119.000.
- Shutske, Gregory M., 4,668,690, Cl. 514-320.000.
- Shutske, Gregory M.; Setescak, Linda L.; and Allen, Richard C. 4,673,746, Cl. 546-272.000.
- Shutske, Gregory M.; and Pierrat, Frank A., 4,695,573, C 514-290.000.
- Strupczewski, Joseph T., 4,670,447, Cl. 514-322.000.
- Strupczewski, Joseph T., 4,710,573, Cl. 546-199.000.

Hoechst UK Limited: *See—*

- Michael, Jeffrey D.; and Ross, Barry C., 4,650,893, Cl. 558-6.000
- Ross, Barry C.; and Michael, Jeffrey D., 4,649,145, Cl. 514-370.000
- Ross, Barry C.; and Johnson, Graham, 4,675,396, Cl. 540-310.000

Hoefelmayr, Tilman; and Maier, Jakob, to Biomelktechnik Hoefelmayr & Co. Apparatus for conveying milk using an underpressure 4,649,863, 3-17-87, Cl. 119-14.320.

Hoefer, Rainer; Schmid, Karl-Heinz; and Wegemund, Bernd, to Henkel Kommanditgesellschaft auf Aktien. Polymerization emulsifiers 4,657,999, 4-14-87, Cl. 526-200.000.

Hoefer, Rainer, to Henkel Kommanditgesellschaft auf Aktien. Surface active tertiary alkylamine emulsifiers for polymerization. 4,689,366, 8-25-87, Cl. 524-724.000.

Hoeffken, Russell W., to SnyderGeneral Corporation. Heat exchanger and plate assembly and method of manufacture. 4,649,894, 3-17-87, Cl. 126-119.000.

Hoeffken, Russell W.; and Wiese, John M., to SnyderGeneral Corporation. Apparatus for manufacturing a furnace heat exchanger and plate assembly. 4,663,837, 5-12-87, Cl. 29-727.000.

Hoeffkes, Horst; and Schrader, Dieter, to Henkel Kommanditgesellschaft auf Aktien. Liquid oxidation hair dye with phase stabilizer 4,698,065, 10-6-87, Cl. 8-406.000.

Hoefflinger, Bernd: *See—*

- Liu, Michael S.; and Hoefflinger, Bernd, 4,686,758, Cl. 437-34.000

Hoefke, Wolfgang: *See—*

- Schnorrenberg, Gerd; Roos, Otto; Losel, Walter; Wiedemann, Ingrid; Gaida, Wolfram; and Hoefke, Wolfgang, 4,683,238, Cl 514-292.000.

Hoefle, Milton L.; Roth, Bruce D.; and Stratton, Charlotte D., to Warner-Lambert Company. Trans-6-[2-(substitutedpyrrol-1-yl)alkyl]-pyran-2-one inhibitors of cholesterol synthesis. 4,647,576, 3-3-87, Cl. 514-422.000.

Hoefle, Milton L.; Holmes, Ann; and Stratton, Charlotte D., to Warner-Lambert Company. Antiarteriosclerotic substituted benzimidazol-2-yl-and 3H-imidazo[4,5-b]pyridin-2-yl-phenoxy-alkanoic acids and salts and esters thereof. 4,714,762, 12-22-87, Cl. 514-303.000.

Hoefle, Milton L.; Holmes, Ann; and Roth, Bruce D., to Warner-Lambert Company. Saturated fatty acid amides as inhibitors of acyl-CoA:cholesterol acyltransferase. 4,716,175, 12-29-87, Cl. 514-357.000.

Hoeft, Arthur P. Chip sampler. 4,650,013, 3-17-87, Cl. 175-211.000.

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  Seitz, Karl; Riat, Henri; and Hoegerle, Karl, 4,680,384, Cl. 534-622.000.

Hoehn, Frederick C.; and Toth, George. Portable self-contained intrusion device. 4,657,225, 4-14-87, Cl. 254-93.0HP.

Hoehn, Herbert; and Strommer, Kurt, to L. Schuler GmbH. Transfer press. 4,713,961, 12-22-87, Cl. 72-419.000.

Hoehn, John W. Dispensing device for "bag-in-box" packages, bag and device for filling bags. 4,666,064, 5-19-87, Cl. 222-105.000.

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Hoehn, Robert A. Long span conveyor track and hanger. 4,635,558, 1-13-87, Cl. 104-111.000.

Hoejer, Anke: *See—*

  Boeckmann, Juergen; Bruhn, Bernhard; Hofmann, Harald; Hoejer, Anke; Mikuteit, Axel; Ritter, Hans-Joachim; and Tenhagen, Rolf, 4,669,617, Cl. 211-69.700.

Hoek, Cornelis; and van Ditten, Jurjen L., to N.V. W.A. Hoek's Machine. Gas cylinder identification device. 4,640,031, 2-3-87, Cl. 40-306.000.

Hoek, John V.: *See—*

  Frisbie, Jeffrey S.; Samson, Wilfred J.; and Hoek, John V., 4,664,113, Cl. 128-344.000.

Hoekman, Earl B., to Minnesota Mining and Manufacturing Company. Method for minimizing false alarms and electronic noise in electronic article surveillance systems. 4,697,170, 9-29-87, Cl. 340-551.000.

Hoekstra, Albert: *See—*

  Bakker, Eppe; and Hoekstra, Albert, 4,707,915, Cl. 30-43.600.

Hoekstra, George R.: *See—*

  Forgac, John M., and Hoekstra, George R., 4,637,464, Cl. 166-261.000.

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Hoelderich, Wolfgang; Merger, Franz; Mross, Wolf D.; and Fischer, Rolf, to BASF Aktiengesellschaft. Preparation of ketones by isomerization of aldehydes. 4,694,107, 9-15-87, Cl. 568-310.000.

Hoelderich, Wolfgang; Merger, Franz; and Fischer, Rolf, to BASF Aktiengesellschaft. Conversion of 1,3-dioxanes to 4-oxa-aldehydes. 4,709,097, 11-24-87, Cl. 568-443.000.

Hoelderich, Wolfgang; Biffar, Werner; Irgang, Matthias; Mross, Wolf D.; Kroener, Michael; and Ambach, Eberhard, to BASF Aktiengesellschaft. Honeycomb catalyst and its preparation. 4,711,930, 12-8-87, Cl. 502-209.000.

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Hoelzel, Eva G.: *See—*

  Gliemeroth, Georg; Ross, Ludwig; Eichhorn, Uwe; Hoelzel, Eva G.; and Speit, Burkhard, 4,686,196, Cl. 501-13.000.

Hoelzer, James C., to J. I. Case Company. Method and apparatus for improving lubricant seal life. 4,649,870, 3-17-87, Cl. 123-41.860.

Hoelzer, John S.; Graefe, Richard J.; and Libert, James T., to Square D Company. Electronic delay timer. 4,714,977, 12-22-87, Cl. 361-196.000.

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Hoen, Cuyler, to Simmons Fastener Corporation. Quarter-turn fastener. 4,657,462, 4-14-87, Cl. 411-552.000.

Hoen, Johannes, to Stamicarbon B.V. Polymer composition. 4,652,615, 3-24-87, Cl. 525-85.000.

Hoenig, Eckhardt, to Siemens Aktiengesellschaft. Method for manufacturing a three-dimensional gradiometer for a device for the single or multi-channel measurement of weak magnetic fields. 4,693,000, 9-15-87, Cl. 29-599.000.

Hoenig, Eckhardt, to Siemens Aktiengesellschaft. Apparatus for measuring weak magnetic fields having several gradiometers with associated SQUID array. 4,700,135, 10-13-87, Cl. 324-248.000.

Hoenig, Stuart A., to Desert Technology, Inc. Method and apparatus for electrostatic extraction of droplets from gaseous medium. 4,670,026, 6-2-87, Cl. 55-11.000.

Hoenigman, Thomas A.: *See—*

  Vadakin, Thomas C.; and Hoenigman, Thomas A., 4,690,159, Cl. 134-167.00C.

Hoenle, Egon R. Panel coupling. 4,646,497, 3-3-87, Cl. 52-285.000.

Hoenninger, John C., III; and Crooks, Lawrence E., to University of California, The Regents of the. Machine generation of machine-executable state-change instructions for magnetic resonance imaging. 4,707,661, 11-17-87, Cl. 324-309.000.

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Hoeppner, Hans-Jochen; Kraemer, Ulrich; and Soelter, Michael, to Messerschmitt-Bolkow-Blohm GmbH. Aircraft with deployable wing portions. 4,659,038, 4-21-87, Cl. 244-49.000.

Hoeppner, Hans-Jochen: *See—*

  Dellinger, Juergen; Hoeppner, Hans-Jochen; and Kraemer, Ulrich, 4,666,105, Cl. 244-63.000.

Hoerbiger Ventilwerke Aktiengesellschaft: *See—*

  Bauer, Friedrich; and Kuhnelt, Herbert, 4,700,610, Cl. 91-390.000.

Hoeren, Gerd H.: *See—*

  Pettet, Mark E.; and Hoeren, Gerd H., 4,694,420, Cl. 364-900.000.

  Sutton, Steven R.; and Hoeren, Gerd H., 4,677,620, Cl. 371-27.000.

Hoeren, Kurt: *See—*

  Daiger, Robert; Hoeren, Kurt; and Hummel, Dietmar, 4,670,750, Cl. 340-870.290.

Hoerenz, Peter G.; and Mueller, Gerhard, to Carl-Zeiss-Stiftung. Illuminance dosage device for an operation microscope. 4,657,013, 4-14-87, Cl. 128-303.100.

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Hoereth, Hans-Jurgen: *See—*

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Hoerig, Klaus; and Gora, Hans-Joachim, to General Motors Corporation. Mounting of an engine. 4,664,219, 5-12-87, Cl. 180-291.000.

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Hoerkens, Reiner. Slide fastener. 4,635,324, 1-13-87, Cl. 24-413.000.

Hoerkens, Reiner. Ornamental chain. 4,713,946, 12-22-87, Cl. 63-4.000.

Hoernig, Rudolf; Herges, Peter; Knoff, Bernd; Richter, Karl-Heinz; Buechle, Karl-Heinz; and Wallentowitz, Henning, to Daimler-Benz Aktiengesellschaft. Apparatus for the automatic engagement and disengagement of drive elements of a motor vehicle. 4,681,185, 7-21-87, Cl. 180-247.000.

Hoernle, Hans R.: *See—*

  Porter, Rick A.; and Hoernle, Hans R., 4,690,859, Cl. 428-251.000.

Hoesch Aktiengesellschaft: *See—*

  Bechem, Werner; Peters, Hubertus; Solbach, Werner; and Wolfhard, Dietrich, 4,634,504, Cl. 204-28.000.

  Bersch, Bernhard; Juttner, Heinz; and Tenhaven, Ulrich, 4,713,519, Cl. 219-121.0LC.

  Brinkmann, Dirk; and Gutohrlein, Uwe, 4,669,292, Cl. 72-107.000.

  Creutz, Walter; Dahlhaus, Peter; and Hofmann, Heinz, 4,714,195, Cl. 238-349.000.

  Diener, Arnulf; Kettler, Hans; and Tenhaven, Ulrich, 4,635,586, Cl. 118-718.000.

  Gross, Heinz; Gerber, Manfred; Krebs, Rolf; and Retzlaff, Friedhelm, 4,656,332, Cl. 219-121.0LD.

  Gutohrlein, Uwe; and Rosenthal, Jurgen, 4,674,369, Cl. 82-8.000.

  Henke, Klaus; and Wozniak, Johannes, 4,696,520, Cl. 301-63.0DS.

  Hotz, Rainer; and Muszkiewicz, Herbert, 4,661,243, Cl. 209-10.000.

  Krug, Ulrich, 4,696,586, Cl. 384-500.000.

  Lepand, Heinz; Huser, Margrit; Biniasz, Franz-Josef; and Fuchs, Axel, 4,710,244, Cl. 148-333.000.

  Steinfeld, Horst E.; and Westerdorff, Gerd, 4,634,049, Cl. 238-84.000.

  Warnke, Heinrich; Kaup, Friedel; Bersch, Bernhard; Mertinkat, Willi; and Tenhaven, Ulrich, 4,707,385, Cl. 427-374.100.

Hoesch Maschinenfabrik: *See—*

  Gutohrlein, Uwe; and Brinkmann, Dirk, 4,674,370, Cl. 82-8.000.

Hoesch Stahl AG: *See—*

  Biniasz, Franz-Josef; Engl, Bernhard; Fuchs, Axel; and Huser, Margrit, 4,687,525, Cl. 148-336.000.

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Hoesch Werke A.G.: *See—*

  Heeren, Evert; and Gotthelf, Hans, 4,662,570, Cl. 241-79.100.

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  Cleare, Michael J.; Hoeschele, James D.; Rosenberg, Barnett; and Van Camp, Loretta, 4,657,927, Cl. 514-492.000.

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  Schapira, Joseph; Ken, Victor; Hoessler, Christian; Cot, Louis; Durand, Jean-Henri; and Pelletier, Patrice, 4,668,307, Cl. 148-6.15Z.

Hoet, Roger; and Gerlach, Pierre, to Thomson-CSF. Electron tube with cathode cooling device. 4,639,633, 1-27-87, Cl. 313-35.000.

Hoet, Roger; and Gerlach, Pierre, to Thomson-CSF. Electron tube with a device for cooling the grid base. 4,644,217, 2-17-87, Cl. 313-35.000.

Hoevel, Lee W.: *See—*

  Friedman, Lee G.; Hailpern, Brent T.; Hoevel, Lee W.; and Thefaine, Yannick J., 4,710,769, Cl. 340-825.030.

Hoevel, Marilyn K., to Xerox Corporation. Contoured mammography phantom with skin. 4,655,716, 4-7-87, Cl. 434-267.000.

Hoey, George B., to Mallinckrodt, Inc. Methods and compositions for enhancing magnetic resonance imaging. 4,639,364, 1-27-87, Cl. 424-9.000.

Hoey, Michael F.: *See—*

  Blackshear, David A.; Blackshear, Perry L., Jr.; Kayser, Stephen J.; and Hoey, Michael F., 4,649,793, Cl. 84-453.000.

Hoeymakers, Gerardus M.: *See—*

  Peeters, Hendrikus W. J.; van Kuringen, Hendricus M. J. C.; and Hoeymakers, Gerardus M., 4,705,391, Cl. 355-77.000.

Hof, Craig R.: *See—*

  Polak, Robert B.; and Hof, Craig R., 4,650,587, Cl. 210-638.000.

Hofacker, Rolland, Jr. Mop and scrubber assembly. 4,675,932, 6-30-87, Cl. 15-118.000.

Hofbauer, Peter; and Sandhagen, Jurgen, to Volkswagen Aktiengesellschaft. Device for continuous fuel injection. 4,690,118, 9-1-87, Cl. 123-533.000.

Hofbauer, Peter: *See—*

Huebner, Horst; Tauber, Guenter; Hofbauer, Peter; Glatzer, Roland; Beintze, Guenther; Wagner, Dieter; and Riege, Guenter, 4,685,328, Cl. 73-55.000.

Hofer, Dean A.; Carlson, Daniel J.; and Pecak, Matthew L., to Texas Instruments Incorporated. Two arm planar/conical/helix antenna. 4,697,192, 9-29-87, Cl. 343-895.000.

Hofer, Ferdinand: *See—*

Innes, James G.; and Hofer, Ferdinand, 4,646,671, Cl. 114-103.000.

Hofer, Friedrich-Wilhelm; and Schwerin, Gunther, to Robert Bosch GmbH. Hydraulic control arrangement. 4,660,380, 4-28-87, Cl. 60-422.000.

Hofer, Gerald; and Schwarz, Manfred, to Robert Bosch GmbH. RPM governor for fuel injection pumps. 4,649,879, 3-17-87, Cl. 123-373.000.

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Hofer, Gerald: *See—*

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Bohringer, Wilfried, Eheim, Franz; Hofer, Gerald; Konrath, Karl; and Laufer, Helmut, 4,714,412, Cl. 417-289.000.

Eheim, Franz; Hofer, Gerald; Konrath, Karl; and Straubel, Max, 4,703,730, Cl. 123-373.000.

Eheim, Franz, deceased; Hofer, Gerald; and Straubel, Max, 4,664,081, Cl. 123-380.000.

Hofer, Herbert, to Reiners & Furst. Traveler carrier for refilling the traveler magazine of a traveler insertion device. 4,660,717, 4-28-87, Cl. 206-338.000.

Hofer Industries Inc.: *See—*

Eichenhofer, Josef; and Schubert, Karl P., 4,665,781, Cl. 82-3.000.

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Shetty, Bola V.; McFadden, Arthur; and Hofer, Peter, 4,639,529, Cl. 548-550.000.

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Hoff, Don G.: *See—*

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Hoff, Stephen J., to Hoffco, Inc. Brake caliper includes mechanical actuator with camming device and manual wear compensator. 4,633,978, 1-6-87, Cl. 188-71.700.

Hoff, Terry E., to General Telephone Company of Indiana. Telephone station testing apparatus. 4,701,699, 10-20-87, Cl. 324-133.000.

Hoffa, Jack L.; and Karkar, Maurice N., to American Hospital Supply Corporation. Calibration cell for the calibration of gaseous or nongaseous fluid constituent sensors. 4,635,467, 1-13-87, Cl. 73-1.00G.

Hoffa, Jack L.; and Karkar, Maurice N., to American Hospital Supply Corporation. Calibration cell for calibration of gaseous or non-gaseous fluid constituent sensors. 4,700,560, 10-20-87, Cl. 73-1.00G.

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Hoffer, Kenneth J. Multi-part intraocular lens and method of implanting it in an eye. 4,636,210, 1-13-87, Cl. 623-6.000.

Hoffer, Kenneth J. Intraocular lens. 4,662,882, 5-5-87, Cl. 623-6.000.

Hoffer, Roy D., to Armstrong World Industries, Inc. Slow acting photo lamp control. 4,697,122, 9-29-87, Cl. 315-158.000.

Hoffert, Franklin D.; Milligan, J. David; and Morrison, James A., to Power Generating, Inc. Pressurized cyclonic combustion method a burner for particulate solid fuels. 4,671,192, 6-9-87, Cl. 110-347.00

Hoffert, William J., to United States of America, Energy. Method an apparatus for transferring and injecting rf energy from a generator t a resonant load. 4,707,668, 11-17-87, Cl. 330-56.000.

Hoffgen, Hans, to Radex Deutschland Aktiengesellschaft fur f Erzeugnisse. Extracting device for a gas-purge brick. 4,670,95 6-9-87, Cl. 29-252.000.

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Hoffman, Allan S.: *See—*

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Hoffman, Arthur J., III, to U.S. Holding Co., Inc. Optical fiber couple packaging arrangement and a method of manufacture the same 4,707,069, 11-17-87, Cl. 350-96.210.

Hoffman, Charles W. Handle construction for long handled imple ments. 4,704,758, 11-10-87, Cl. 15-144.00B.

Hoffman, Daniel J.: *See—*

Owens, Thomas L.; Baity, Frederick W.; Hoffman, Daniel J.; an Whealton, John H., 4,694,264, Cl. 333-34.000.

Hoffman, David; Verduin, Lee C.; and Ouwinga, Ross, to Rowe International, Inc. Price setting and display system for multiple unit merchandising machine. 4,677,777, 7-7-87, Cl. 40-460.000.

Hoffman, David C.: *See—*

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Hoffman, David W.; and Kukla, Cassimer M., to Ford Motor Company Device for measuring stresses in vacuum deposition coating 4,683,758, 8-4-87, Cl. 73-780.000.

Hoffman, Donald E.; and McDonald, David B., to General Motor Corporation. Rotary air valve seal arrangement. 4,683,913, 8-4-87, C 137-625.400.

Hoffman, Donald E.: *See—*

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Hoffman, Donald G.; and Hurst, Thomas L., to Kerr-McGee Chemic Corporation. Method for recovering a wood preservative from was sludges. 4,666,612, 5-19-87, Cl. 210-768.000.

Hoffman, Dorothy M., to RCA Corporation. Deposition of silic dioxide. 4,686,112, 8-11-87, Cl. 427-42.000.

Hoffman, Dorothy M.; Tams, Frederick J., III; and McGinn, Joseph T to RCA Corporation. Epitaxial metal silicide layers. 4,687,5 8-18-87, Cl. 156-612.000.

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Hoffman, Dwight K.; and Fernandez, Reet T., to Dow Chemic Company, The. Poly(siloxane)-modified epoxy resins. 4,707,52 11-17-87, Cl. 525-476.000.

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Fisk, Thomas E.; and Hoffman, Dwight K., 4,640,935, 521-137.000.

Hoffman, Eldon P., to Tektronix, Inc. Isolation mount for an optic encoder. 4,647,770, 3-3-87, Cl. 250-231.0SE.

Hoffman, Ernest G., to Harvey Hubbell Incorporated. Cable havi hauling, electrical and hydraulic lines. 4,644,094, 2-17-87, 174-47.000.

Hoffman, Ernest G.; and Neuroth, David H., to Hubbell Incorporat Armored power cable with edge supports. 4,707,568, 11-17-87, 174-103.000.

Hoffman, Ernest G.; and Neuroth, David H., to Hubbell Incorporat Pushing and pulling cable. 4,716,260, 12-29-87, Cl. 174-102.00R

Hoffman, Fred W.; and Reitz, Richard J., to Allied Corporation. Co pressor drive with oil distribution sleeve. 4,646,889, 3-3-87, 192-70.120.

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Hoffman, Gary R., to General Services Engineering, Inc. Rem monitoring system. 4,660,035, 4-21-87, Cl. 340-870.020.

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Chmelir, Miroslav; Dahmen, Kurt; Hoffman, Georg; and Wern Georg, 4,693,713, Cl. 604-368.000.

Hoffman, George J., to Litton Systems, Inc. Ferro-fluid bear 4,645,960, 2-24-87, Cl. 310-90.500.

Hoffman, George J., to Condor Pacific Industries, Inc. Bore h navigator. 4,696,112, 9-29-87, Cl. 33-304.000.

Hoffman, Glenn E.: *See—*

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Hoffman, Gregory C. Holster mount. 4,691,396, 9-8-87, Cl. 5-503.0

Hoffman, Gregory L.: *See—*
  McManus, Paul A.; and Hoffman, Gregory L., 4,670,780, Cl. 358-80.000.

Hoffman, Hans; and Heubach, Frank, to U.S. Philips Corporation. Arrangement for the programmable control of a radio and/or television receiver. 4,635,121, 1-6-87, Cl. 358-188.000.

Hoffman, Harry S., Jr.: *See—*
  Criscimagna, Tony N.; Hoffman, Harry S., Jr.; and Knecht, William R., 4,683,470, Cl. 340-771.000.

Hoffman, Jerzy, to Wavecom. Solenoid having a plunger non-fixedly adjoining an end of the armature. 4,646,043, 2-24-87, Cl. 335-255.000.

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Hoffman, John A.: *See—*
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Hoffman, John P.; and Phelps, Weldon L., to Caterpillar Inc. Dual current sensing driver circuit. 4,661,766, 4-28-87, Cl. 323-287.000.

Hoffman, John P., to Caterpillar Inc. Position to duty cycle conversion apparatus and method. 4,682,151, 7-21-87, Cl. 340-347.0SY.

Hoffman, Keith A., to Knape & Vogt Manufacturing Company. Sequential drawer slide. 4,662,761, 5-5-87, Cl. 384-18.000.

Hoffman, Kenneth F.: *See—*
  Eberhardt, H. Alfred; and Hoffman, Kenneth F., 4,653,978, Cl. 415-39.000.

Hoffman, Kent C., to Murray Electronics Associates Limited Partnership. Multi-element electrode. 4,635,641, 1-13-87, Cl. 128-639.000.

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Hoffman, Kent C., to Murray Electronics Associates Limited Partnership. Apertured adhesively applied body electrode apparatus and method. 4,700,710, 10-20-87, Cl. 128-641.000.

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Hoffman, Louis S.; Bohmer, William; DeVito, Ralph J.; Langille, Brian R.; Watkins, Richard D.; Sanders, Charles B.; Kerch, Martha E.; and Shanko, Marc, to Scott Paper Company. Apparatus for dispensing sheet material. 4,666,099, 5-19-87, Cl. 242-55.530.

Hoffman, Louis S.: *See—*
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Hoffman, Mary V., to General Electric Company. Skin tanning fluorescent lamp construction utilizing a phosphor combination. 4,645,969, 2-24-87, Cl. 313-487.000.

Hoffman, Michael J., to Stauffer-Wacker Silicones Corporation. Aqueous silicone emulsions as bladder lubricants. 4,678,815, 7-7-87, Cl. 523-122.000.

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  Dupont, Bo; Hoffman, Michael K.; Collins, Nancy; Yang, Soo Y.; Morishima, Yasuo; and Kobayashi, Masahide, 4,677,056, Cl. 435-7.000.

Hoffman, Norman E.; and Oberman, Carl D., to AMP Incorporated. Electrical switch assembly and latching system therefor. 4,686,333, 8-11-87, Cl. 200-6.00B.

Hoffman, Philip A., to Solid State Charger Research and Development. Current regulating circuit. 4,658,199, 4-14-87, Cl. 320-21.000.

Hoffman, Reinhold; and Klimke, Walter, to Interlock Corporation. Device for chilling stream of gas-suspended particles. 4,691,865, 9-8-87, Cl. 239-690.000.

Hoffman, Richard B.; and Po, Jonathan B. Radiopaque coded ring markers for use in identifying surgical grafts. 4,693,237, 9-15-87, Cl. 128-1.00R.

Hoffman, Robert A.: *See—*
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  Reilly, Roger D.; Teal, Richard D.; and Hoffman, Robert A., 4,688,819, Cl. 280-461.00A.

Hoffman, Robert K.; Kavanaugh, Mark A.; and Franson, David C., to Parker-Hannifin Corporation. Pilot operated poppet valve with speed control. 4,640,309, 2-3-87, Cl. 137-596.180.

Hoffman, Robert W., to Revlon, Inc. Conical spiral antenna. 4,675,690, 6-23-87, Cl. 343-895.000.

Hoffman, Robert W.: *See—*
  Ekchian, Jack A.; Hoffman, Robert W.; Ekchian, Leon; and Gabriel, Kaigham J., 4,673,932, Cl. 340-825.540.

Hoffman, Roger T., to National Air Sander, Inc. Straight-line rubbing machine with thrust transmitting members. 4,686,797, 8-18-87, Cl. 51-170.0TL.

Hoffman, Ronald G. Method of correcting ingrown toenails. 4,674,486, 6-23-87, Cl. 128-81.00A.

Hoffman, Ronald J., to Dow Chemical Company, The. Electric current-producing cell and related composition. 4,650,731, 3-17-87, Cl. 429-112.000.

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Hoffman, Timothy C. Lightweight compact chair with back support, for outdoors use. 4,673,211, 6-16-87, Cl. 297-16.000.

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Hoffman, William F.; Rooney, Clarence S.; and Lee, Ta J., to Merck & Co., Inc. Antihypercholesterolemic lactone compounds, compositions and use. 4,661,483, 4-28-87, Cl. 514-236.000.

Hoffman, William F., to Merck & Co., Inc. Macrocyclic lactone HMG-CoA reductase inhibitors. 4,665,091, 5-12-87, Cl. 514-450.000.

Hoffman, William F.; Smith, Robert L.; and Scolnick, Edward, to Merck & Co., Inc. Novel HMG-CoA reductase inhibitors. 4,668,699, 5-26-87, Cl. 514-460.000.

Hoffman, William F.: *See—*
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Hoffman, Wolfgang. System for applying heat shrink film to containers and other articles and heat shrinking the same. 4,704,173, 11-3-87, Cl. 156-86.000.

Hoffmann, Armin, to Hilti Aktiengesellschaft. Press-out piston for dispensing substance from a container. 4,645,098, 2-24-87, Cl. 222-386.000.

Hoffmann, Birgit: *See—*
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Hoffmann, Daniel J., to Gossen Corporation. Integral composite profile of cellular and non-cellular resins and a dual extrusion method for its manufacture. 4,690,862, 9-1-87, Cl. 428-318.600.

Hoffmann, Dennis, Sr., to Pro Patch Systems, Inc. Vehicle body surface repair patch assembly. 4,707,391, 11-17-87, Cl. 428-63.000.

Hoffmann, Dieter; and Trumper, Reinhard, to O&K Orenstein & Koppel Aktiengesellschaft. Displaceable inclined hoist. 4,681,205, 7-21-87, Cl. 198-307.100.

Hoffmann, Friedrich; and Jessen, Kai, to Carl-Zeiss-Stiftung. Apparatus for performing lamellar refractive corneal surgery. 4,662,370, 5-5-87, Cl. 128-305.000.

Hoffmann, George T. Shaft straightening machine. 4,688,412, 8-25-87, Cl. 72-110.000.

Hoffmann, Gerhard; Bauer, Rudolf; Heilmann, Paul; and Schumann, Erwin, to Degussa Aktiengesellschaft. Furnace for the partial heat treatment of work tools. 4,682,011, 7-21-87, Cl. 219-390.000.

Hoffmann, Gerhard, to Daimler-Benz Aktiengesellschaft. Electrode arrangement for the electrochemical metal erosion process for producing a tooth system. 4,705,615, 11-10-87, Cl. 204-289.000.

Hoffmann, Gerhard; Hofmann, Reiner; and Elzer, Albert, to BASF Aktiengesellschaft. Photosensitive recording materials. 4,710,446, 12-1-87, Cl. 430-281.000.

Hoffmann, Gerhard: *See—*
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Hoffmann-Glewe, Manfred; and Prause, Dieter, to Pfaff Haushaltmaschinen. Sewing machine material feeder. 4,633,796, 1-6-87, Cl. 112-314.000.

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Hoffmann, Helmuth, to Hydrotechnik GmbH. Measuring turbine. 4,694,681, 9-22-87, Cl. 73-3.000.

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  Grenacher, Armin V.; Strohmeyer, Max; Hoffmann, Herwig; and Elliehausen, Heinrich, 4,709,105, Cl. 568-883.000.

Hoffmann, Joachim, to Esjot-Werke Schiermeister & Junker GmbH & Co. KG. Freewheel overrunning clutch, particularly for a two-wheel vehicle. 4,711,331, 12-8-87, Cl. 192-46.000.

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  Alig, Leo; and Muller, Marcel, 4,652,679, Cl. 564-86.000.
  Angehrn, Peter, 4,689,227, Cl. 424-114.000.
  Aschwanden, Werner; and Kyburz, Emilio, 4,650,878, Cl. 548-544.000.
  Aschwanden, Werner; Branca, Quirico; Kyburz, Emilio; and Pfister, Rudolf, 4,691,040, Cl. 558-44.000.

Attwood, Michael R.; Hassall, Cedric H.; Lambert, Robert W.; Lawton, Geoffrey; and Redshaw, Sally, 4,658,024, Cl. 540-500.000.

Barner, Richard; and Hubscher, Josef, 4,675,421, Cl. 549-416.000.

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Berger, Leo; Dairman, Wallace M.; Mowles, Thomas F.; and Olson, Gary L., 4,707,484, Cl. 514-278.000.

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Borer, Claude; and Schildknecht, Kurt, 4,648,713, Cl. 356-246.000.

Breuninger, Manfred; and Schmidt, Dieter, 4,694,084, Cl. 546-25.000.

Broger, Emil A.; and Crameri, Yvo, 4,652,657, Cl. 548-402.000.

Brombacher, Urs; Link, Helmut; and Montavon, Marc, 4,711,889, Cl. 514-297.000.

Brot, Nathan; and Weissbach, Herbert, 4,661,443, Cl. 435-6.000.

Carson, Matthew; and LeMahieu, Ronald A., 4,663,332, Cl. 514-340.000.

Carson, Matthew; Han, Ru-Jen L.; and LeMahieu, Ronald A., 4,672,066, Cl. 514-256.000.

Cassal, Jean-Marie; Edenhofer, Albrecht; and Ramuz, Henri, 4,675,328, Cl. 514-345.000.

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Cassal, Jean-Marie; Edenhofer, Albrecht; and Ramuz, Henri, 4,692,450, Cl. 514-256.000.

Chan, Ka-Kong; Holland, George W.; and Rosen, Perry, 4,642,364, Cl. 556-438.000.

Coffen, David L.; Holland, George W.; Mandeville, W. Harry; Rosen, Perry; and Wong, Frederick, 4,707,555, Cl. 549-311.000.

Cohen, Noal; and Weber, Guiseppe F., 4,650,812, Cl. 514-456.000.

Dorn, Franz; Pfiffner, Albert; and Zehnder, Beat, 4,678,790, Cl. 514-277.000.

Eggimann, Bernhard; Hochuli, Erich; and Schacher, Alfred, 4,716,219, Cl. 530-413.000.

Familletti, Philip C., 4,649,117, Cl. 435-313.000.

Farrenkopf, Bruce C.; and Kaufman, Richard A., 4,698,315, Cl. 436-536.000.

Felix, Arthur M.; Heimer, Edgar P.; and Mowles, Thomas F., 4,649,131, Cl. 514-12.000.

Fischli, Albert; Krasso, Anna; Ramuz, Henri; and Szente, Andre, 4,634,710, Cl. 514-338.000.

Frater, Georg; Suchy, Milos; Wenger, Jean; and Winternitz, Paul, 4,687,849, Cl. 544-354.000.

Frunzi, Archie M.; and Williams, Gregg R., 4,659,024, Cl. 241-99.000.

Furlenmeier, Andre; Hofheinz, Werner; Hubschwerlen, Christian N.; and Isenring, Hans P., 4,652,651, Cl. 548-194.000.

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Hengartner, Urs; and Ramuz, Henri, 4,680,310, Cl. 514-539.000.

Holick, Wolfgang; and Pauling, Horst, 4,636,566, Cl. 548-303.000.

Holland, George W.; Maag, Hans; and Rosen, Perry, 4,634,782, Cl. 549-465.000.

Holland, George W.; Rosen, Perry; and Maag, Hans, 4,650,883, Cl. 549-312.000.

Holland, George W.; Rosen, Perry; and Maag, Hans, 4,665,198, Cl. 549-214.000.

Holland, George W.; Maag, Hans; and Rosen, Perry, 4,680,415, Cl. 549-214.000.

Holland, George W.; Maag, Hans; and Rosen, Perry, 4,681,962, Cl. 556-441.000.

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Imfeld, Marquard, 4,689,427, Cl. 560-144.000.

Imhof, Rene; and Kyburz, Emilio, 4,684,731, Cl. 546-138.000.

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Klaus, Michael; and Loeliger, Peter, 4,678,793, Cl. 514-311.000.

Kompis, Ivan; and Weiss, Ekkehard, 4,640,918, Cl. 514-222.000.

Kompis, Ivan; Rey-Bellet, Gerald; and Zanetti, Guido, 4,659,818, Cl. 544-163.000.

Kung, Hsiang-Fu; Miller, David L.; and Pestka, Sidney, 4,672,108, Cl. 530-351.000.

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Liu, Chao-Min; and Westley, John, 4,672,033, Cl. 435-75.000.

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Machin, Peter J., 4,649,160, Cl. 514-652.000.

Machin, Peter J., 4,663,462, Cl. 548-260.000.

Mergens, William J.; Newmark, Harold L.; Sheth, Prabhakar R.; and Tossounian, Jacques L., 4,681,756, Cl. 424-451.000.

Merkli, Bernhard, 4,696,921, Cl. 514-157.000.

Mohacsi, Erno; and O'Brien, Jay P., 4,640,930, Cl. 514-431.000.

Mohacsi, Erno; and O'Brien, Jay P., 4,652,561, Cl. 514-211.000.

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Nosberger, Paul, 4,700,009, Cl. 568-431.000.

Oesterhelt, Gottfried; and Petrzilka, Martin, 4,652,089, Cl. 35 350.00R.

Partridge, John J.; Shiuey, Shian-Jan; and Uskokovic, Milan R., 4,634,692, Cl. 514-167.000.

Partridge, John J.; Shiuey, Shian-Jan; and Uskokovic, Milan R., 4,652,405, Cl. 260-397.100.

Pauling, Horst; and Wehrli, Christof, 4,687,859, Cl. 548-321.00

Petrzilka, Martin, 4,676,604, Cl. 350-350.00R.

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Hoffmann, Peter; Buschmann, Gerhard; Leichter, Hans; and We Ewald, to Jagenberg Aktiengesellschaft. Roll-firmness measuring device. 4,676,094, 6-30-87, Cl. 73-78.000.

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Bliesener, Jens-Uwe; Baumann, Manfred; Hoffmann, Werner; Sauter, Hubert; and Jung, Johann, 4,671,816, Cl. 71-88.000.

Degner, Dieter; Gramlich, Walter; Hoffmann, Werner; and Schuster, Ludwig, 4,654,167, Cl. 252-522.00R.

Thoemel, Frank; and Hoffmann, Werner, 4,665,221, C 560-249.000.

Hoffmann, Wolfgang, to B & H Manufacturing Company. Rotatable shaft assembly. 4,641,558, 2-10-87, Cl. 83-152.000.

Hoffmann, Wolfgang W., to Shibuya America Corporation. Straight line container labeling apparatus. 4,714,515, 12-22-87, Cl. 156-450.00

Hoffmeister, Dietrich, to Carl-Zeiss-Stiftung. Cooling chamber for processing specimens for microscopic and electron-microscopic investigations. 4,680,945, 7-21-87, Cl. 62-514.00R.

Hoffmeister, Fred L. E-Z-T golf ball dispenser. 4,676,397, 6-30-87, Cl. 221-105.000.

Hoffmeister, Friedrich: *See—*

Mardin, Mithat; Busse, Wolf-Dieter; Hoffmeister, Friedrich; Se- ter, Friedel; Perzborn, Elisabeth; Schlossmann, Klaus; Mayer, Dieter; and Fiedler, Volker, 4,657,924, Cl. 514-404.000.

Hoffmeister, Lothar: *See—*

Hendrich, Klaus; Halm, Horst; Blaseck, Klaus; and Hoffmeister, Lothar, 4,664,873, Cl. 376-260.000.

Hoffmueller, Wilhelm: *See—*

Rossmann, Axel; Hoffmueller, Wilhelm; and Eichner, Josef, 4,671,735, Cl. 415-172.00A.

Hoffner, Daniel A. E.; and Trautmann, Jean-Marie C., to Thann et Mulhouse. Preparation of pigmentary red iron oxides. 4,702,7 10-27-87, Cl. 106-309.000.

Hoffrichter, Ingo; Jung, Eggert; and Keller, Hans, to Dr. Ing. Rudolf Hell GmbH. Method and circuit arrangement for selective correction of hues and colors. 4,649,423, 3-10-87, Cl. 358-80.000.

Hofgen, Gunter; and Euler, Helmut, to International Standard Electric Corporation. Two-way ranging system. 4,677,441, 6-30-87, Cl. 342-174.000.

Hofgen, Gunther: *See—*

Greving, Gerhard; Hofgen, Gunther; and Zeitz, Rudiger, 4,641,142, Cl. 342-399.000.

- Hofheinz, David E.: *See—*
  - Kortright, Kenneth H.; and Hofheinz, David E., 4,708,930, Cl. 435-7.000.
- Hofheinz, Werner: *See—*
  - Furlenmeier, Andre; Hofheinz, Werner; Hubschwerlen, Christian N.; and Isenring, Hans P., 4,652,651, Cl. 548-194.000.
- Hofinger, Manfred; Hille, Martin; and Bohm, Roland. Method for the separation of oil-in-water emulsions. 4,686,066, 8-11-87, Cl. 252-344.000.
- Hofke, Fred, to Revlon, Inc. Device and method for determining skin type. 4,672,973, 6-16-87, Cl. 128-665.000.
- Hofler, Siegfried; Rode, Konrad; and Schmidt, Reinhard, to WABCO Westinghouse Fahrzeugbremsen GmbH. Apparatus for the acquisition of speed-of-rotation and/or angle of rotation signals on a drive shaft. 4,689,990, 9-1-87, Cl. 73-118.100.
- Hofler, Willy. Automatic gear testing apparatus. 4,646,443, 3-3-87, Cl. 33-179.50R.
- Hofler, Willy. Apparatus for testing gear wheel tooth flank profile and tooth flank lines (root angle) and a method for positioning this apparatus for the measurement apparatus. 4,646,566, 3-3-87, Cl. 73-162.000.
- Hofling, Erich; and Maly, Zdenek, to Swiss Aluminium Ltd. Method and apparatus for the determination of the thickness of transparent layers of lacquer. 4,703,187, 10-27-87, Cl. 250-571.000.
- Hofling, Erich: *See—*
  - Maly, Zdenek; and Hofling, Erich, 4,634,508, Cl. 204-181.600.
- Hofling, Peter, to O&K Orenstein & Koppel Aktiengesellschaft. Person-conveying device. 4,635,783, 1-13-87, Cl. 198-321.000.
- Hofling, Peter; and Schoneweiss, Klaus, to O&K Orenstein & Koppel Aktiengesellschaft. Roller-path system. 4,645,059, 2-24-87, Cl. 198-321.000.
- Hofma, Jogchum: *See—*
  - Broekhof, Nicolaas L. J. M.; van der Weerdt, Antonius J. A.; and Hofma, Jogchum, 4,643,844, Cl. 252-522.00R.
- Hofman, Jan, to Hallandse Signaalapparaten B.V.; and Hallandse Signaalapparaten B.V. Stabilization aid for a vehicle-or vessel-borne search unit. 4,680,521, 7-14-87, Cl. 318-649.000.
- Hofman, Manfred: *See—*
  - Andra, Rainer; and Hofman, Manfred, 4,700,934, Cl. 267-140.100.
- Hofman, Petrus S.; Hall, David W. R.; and Jaitly, Kapil D., to Gist-Brocades N.V. 1H-imidazol-1-ethanol esters. 4,710,571, 12-1-87, Cl. 544-216.000.
- Hofmann, Alan F.; and Cole, Stephen G., to University of California, The Regents of the. Breath test for pancreatic exocrine function. 4,676,974, 6-30-87, Cl. 424-9.000.
- Hofmann, Albert, to Kernforschungszentrum Karlsruhe GmbH. Method for cooling an object with the aid of superfluid helium (He II) and apparatus for implementing the method. 4,713,942, 12-22-87, Cl. 62-62.000.
- Hofmann, Constance J.: *See—*
  - Marshall, Wayne E.; and Hofmann, Constance J., 4,678,673, Cl. 426-46.000.
- Hofmann, Dieter, to Patent-Treuhand Gesellschaft fur elektrische Gluhlampen mbH. Compact, single-ended fluorescent lamp with fill vapor pressure control. 4,694,215, 9-15-87, Cl. 313-44.000.
- Hofmann, Franz; Trapp, Hans G.; Rietzscher, Rolf; Otto, Jurgen; Kaettlitz, Wolfgang; and Trinki, Gerd, to Georg Fischer Aktiengesellschaft. Ceramic filter and method for using same. 4,713,180, 12-15-87, Cl. 210-773.000.
- Hofmann, Friedbert; Krabetz, Richard; and Schwarzmann, Matthias, to BASF Aktiengesellschaft. Molded catalyst for reactions carried out under heterogeneous catalysis. 4,656,157, 4-7-87, Cl. 502-439.000.
- Hofmann, Gunter A.: *See—*
  - Costa, Jonathan L.; and Hofmann, Gunter A., 4,665,898, Cl. 128-1.300.
- Hofmann, Hans; and Ziegler, Heinz, to Emuge-Werk Richard Glimpel Fabrik fur Prazisionswekzeuge Vormals. Stress bushing for profile-stressing objects. 4,666,167, 5-19-87, Cl. 279-2.00R.
- Hofmann, Hans: *See—*
  - Wenger, Roland; Traber, Rene P.; Kobel, Hans; and Hofmann, Hans, 4,639,434, Cl. 514-11.000.
- Hofmann, Hans J., to Schwan-Stabilo Schwanhausser GmbH & Co. Powder stick with shrink film sheathing. 4,640,636, 2-3-87, Cl. 401-96.000.
- Hofmann, Hans J., to Spraco, Inc. Spray-shower with nozzles, particularly flat fan nozzles. 4,706,889, 11-17-87, Cl. 239-550.000.
- Hofmann, Harald: *See—*
  - Boeckmann, Juergen; Bruhn, Bernhard; Hofmann, Harald; Hoejer, Anke; Mikuteit, Axel; Ritter, Hans-Joachim; and Tenhagen, Rolf, 4,669,617, Cl. 211-69.700.
- Hofmann, Heinrich: *See—*
  - Petzow, Gunter; Hofmann, Heinrich; and Weiss, Kurt, 4,670,408, Cl. 501-87.000.
- Hofmann, Heinz; and Schwarz, Gerhard, to Brown, Boveri & Cie AG. Explosion-proof or flame-proof plug having a transformer disposed in a compression-resistant chamber. 4,677,411, 6-30-87, Cl. 336-90.000.
- Hofmann, Heinz: *See—*
  - Creutz, Walter; Dahlhaus, Peter; and Hofmann, Heinz, 4,714,195, Cl. 238-349.000.
- Hofmann, Jens: *See—*
  - Vollmer, Elmar; Hofmann, Jens; and Adam, Helmut, 4,703,827, Cl. 180-232.000.
- Hofmann, Jorg; and Ding, Kurt, to MTU Motoren-und Turbinen-Union Munchen GmbH. Method and apparatus for the optical measurement of fluid flow. 4,707,130, 11-17-87, Cl. 356-28.000.
- Hofmann, Jurgen; Huschka, Hans; and Neupert, Daniel, to Nukem GmbH. Process and apparatus for the decomposition of halogen and/or phosphoric containing organic materials. 4,711,185, 12-8-87, Cl. 110-215.000.
- Hofmann, Karl: *See—*
  - Eblen, Ewald; Hofmann, Karl; Holzgrefe, Volker; Pigeroulet, Jean; Rodriguez-Amaya, Nestor; Simon, Nikolaus; Trachte, Dietrich; Weiss, Friedrich; and Ziegler, Ewald, 4,653,455, Cl. 123-506.000.
- Hofmann, Lothar: *See—*
  - Ruchel, Peter; and Hofmann, Lothar, 4,676,848, Cl. 148-434.000.
- Hofmann, Ludwig, to Siemens Aktiengesellschaft. Digital quartz-stabilized FM discriminator. 4,642,574, 2-10-87, Cl. 329-50.000.
- Hofmann, Manfred; and Sciortino, Giacomo, to Metzeler Kautschuk GmbH. Two-chamber engine mount with hydraulic damping. 4,643,405, 2-17-87, Cl. 267-8.00R.
- Hofmann, Manfred, to Metzeler Kautschuk GmbH. Two-chamber engine mount with hydraulic damping. 4,657,227, 4-14-87, Cl. 267-8.00R.
- Hofmann, Manfred; and Muller, Hans, to Metzeler Kautschuk GmbH. Two chamber engine mount with hydraulic damping. 4,676,489, 6-30-87, Cl. 267-140.100.
- Hofmann, Manfred; Muller, Hans; and Waldecker, Ralf, to Metzeler Kautschuk GmbH. Two chamber engine mount with hydraulic damping. 4,681,306, 7-21-87; Cl. 267-140.100.
- Hofmann, Manfred: *See—*
  - Andra, Rainer; and Hofmann, Manfred, 4,650,168, Cl. 267-140.100.
  - Andra, Rainer; and Hofmann, Manfred, 4,711,206, Cl. 123-192.00R.
  - Bitschkus, Horst; Hofmann, Manfred; and Nelles, Uwe, 4,667,942, Cl. 267-140.100.
  - Jassle, Hans-Ulrich; Hofmann, Manfred; and Geiger, Dietrich, 4,646,421, Cl. 29-568.000.
  - Leverberg, Siegfried; and Hofmann, Manfred, 4,638,668, Cl. 73-866.500.
- Hofmann, Norbert, to Triumph-Adler A.G. Single pass ink ribbon cassette for typewriters or similar machines. 4,688,954, 8-25-87, Cl. 400-208.000.
- Hofmann, Norbert, to Ta Triumph-Adler A.G. Tractor feed for margin perforated paper webs. 4,707,158, 11-17-87, Cl. 400-616.200.
- Hofmann, Otto, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Device for aircraft and spacecraft for producing a digital terrain representation. 4,689,748, 8-25-87, Cl. 364-456.000.
- Hofmann, Otto, to Messerschmitt-Bolkow-Blohm GmbH. Stereophotogrammetric surveying and evaluation method. 4,708,472, 11-24-87, Cl. 356-2.000.
- Hofmann, Peter: *See—*
  - Orban, Ivan; Meier, Hans-Rudolf; Dubs, Paul; Evans, Samuel; and Hofmann, Peter, 4,699,939, Cl. 524-291.000.
  - Rasberger, Michael; Hofmann, Peter; Meier, Hans R.; and Dubs, Paul, 4,661,594, Cl. 546-22.000.
- Hofmann, Raimund, to Folkmar, Jan. Receptacle with at least two chambers for accommodating liquids and pulverized substance, especially coffee powder, milk and/or sugar. 4,691,821, 9-8-87, Cl. 206-216.000.
- Hofmann, Rainer, to Daimler-Benz Aktiengesellschaft. Apparatus for regulating a vehicle clutch. 4,667,787, 5-26-87, Cl. 192-0.032.
- Hofmann, Rainer, to Daimler-Benz Aktiengesellschaft. Regulating apparatus which influences a mixture-forming installation of an internal-combustion engine of a motor vehicle. 4,713,763, 12-15-87, Cl. 364-424.100.
- Hofmann, Reiner: *See—*
  - Hartmann, Heinrich; Hoffmann, Gerhard; Buensch, Hellmut; and Hofmann, Reiner, 4,643,963, Cl. 430-286.000.
  - Hoffmann, Gerhard; Hofmann, Reiner; and Elzer, Albert, 4,710,446, Cl. 430-281.000.
  - Schornick, Gunnar; Elzer, Albert; and Hofmann, Reiner, 4,714,751, Cl. 528-103.000.
- Hofmann Werkstatt-Technik GmbH: *See—*
  - Menigat, Roland; and Gruppenbacher, Klaus, 4,637,171, Cl. 51-281.00R.
  - Menigat, Roland; and Gruppenbacher, Klaus, 4,688,355, Cl. 51-169.000.
  - Wenz, Friedrich, 4,702,103, Cl. 73-146.000.
- Hofmann, Wilfried, to Agfa-Gevaert Aktiengesellschaft. Cover for vacuum ink printing head. 4,638,336, 1-20-87, Cl. 346-140.00R.
- Hofmeier, Gerhard; Petersen, Karl; and Schroeder, Wolfgang, to Eppendorf Geratebau Netheler & Hinz GmbH. Process for measuring the potential difference between a sample liquid and a reference electrolyte. 4,714,527, 12-22-87, Cl. 204-1.00T.
- Hofmeister, Helmut; Annen, Klaus; Laurent, Henry; and Wiechert, Rudolf, to Schering Aktiengesellschaft. 17 α-chloroethynyl pregnane derivatives. 4,708,823, 11-24-87, Cl. 260-397.400.
- Hofmeister, Helmut: *See—*
  - Annen, Klaus; Laurent, Henry; Hofmeister, Helmut; Wiechert, Rudolf; and Wendt, Hans, 4,645,763, Cl. 514-178.000.
  - Annen, Klaus; Laurent, Henry; Elger, Walter; Wiechert, Rudolf; Hofmeister, Helmut; and Topert, Michael, 4,670,427, Cl. 514-178.000.
  - Annen, Klaus; Laurent, Henry; Hofmeister, Helmut; Wiechert, Rudolf; Toepert, Michael; and Wendt, Hans, 4,701,451, Cl. 514-180.000.
- Hofmeister, Peter; Buerstinghaus, Rainer; and Adolphi, Heinrich, to BASF Aktiengesellschaft. Novel esters, their preparation, and their use for controlling pests. 4,642,368, 2-10-87, Cl. 560-65.000.
- Hofmeister, Walter; and Demmin, Gunter, to Peters Maschinenfabrik GmbH. Apparatus for forming connection bridges between stacks of corrugated cardboard sheets in a corrugator. 4,715,925, 12-29-87, Cl. 156-470.000.

Hofrichter, James, to Seats, Inc. Swivel seat pedestal. 4,705,256, 11-10-87, Cl. 248-418.000.
Hofs, Wolfgang: *See—*
  Ulrichs, Klaus; Hibbel, Joseph; Schmidt, Volkmar; Lieder, Bernhard; Scheve, Heinrich; Schulze-Frenking, Burchard; Hofs, Wolfgang; and Nottebohm, Jurgen, 4,699,773, Cl. 423-396.000.
Hofstadt, Otto: *See—*
  Biffar, Werner; Hofstadt, Otto; Kartte, Klaus; Thomas, Erwin; and Weiss, Franz-Josef, 4,659,683, Cl. 502-24.000.
Hofstatter, Alfred F.: *See—*
  Lichti, Wayne P.; and Hofstatter, Alfred F., 4,640,711, Cl. 75-248.000.
Hofstein, Michael A.: *See—*
  Howell, Mary E.; Hofstein, Michael A.; and Howell, Murrell D., 4,699,484, Cl. 352-243.000.
Hofstetter, Donald R.; and Fow, Louis F., Jr. Method for forming drum handling rings. 4,680,068, 7-14-87, Cl. 156-196.000.
Hofstetter, Edward M.: *See—*
  Feldman, Joel A.; and Hofstetter, Edward M., 4,710,959, Cl. 381-36.000.
Hofstetter, Robert W., Jr.: *See—*
  Green, Stephen H.; Hofstetter, Robert W., Sr; and Hofstetter, Robert W., Jr., 4,709,802, Cl. 198-465.100.
Hofstetter, Robert W., Sr: *See—*
  Green, Stephen H.; Hofstetter, Robert W., Sr; and Hofstetter, Robert W., Jr., 4,709,802, Cl. 198-465.100.
Hoft, Alois: *See—*
  Noss, Gerhard; and Hoft, Alois, 4,699,884, Cl. 435-287.000.
Hoft, Peter; Peter, Wolfgang; Bergsteiner, Johann; Berscheick, Gunter; Drobe, Wolfgang; Engelke, Fritz; Hacke, Heinz; Hebbinghaus, Walter; and Kuhnert, Siegfried, to Schmalbach-Lubeca AG. Opening means for oblong cans. 4,690,297, 9-1-87, Cl. 220-273.000.
Hoftman, Mike: *See—*
  Sandel, Dan; and Hoftman, Mike, 4,674,676, Cl. 229-142.000.
Hogan, Dennis R.; and Wright, John K. Security and fire protection system. 4,641,127, 2-3-87, Cl. 379-40.000.
Hogan, Lawrence R., to Cole-Parmer Instrument Company. Dispensing system with slidable modules. 4,690,307, 9-1-87, Cl. 222-95.000.
Hogan, Lawrence R.: *See—*
  Kane, Michael; and Hogan, Lawrence R., 4,637,153, Cl. 40-605.000.
Hogan, Philip J.: *See—*
  Dewing, John; Hogan, Philip J.; and Stewart, Allan, 4,677,239, Cl. 585-475.000.
Hogan, Robert J.: *See—*
  Gardner, Lloyd E.; Hogan, Robert J.; Sughrue, Edward L., II; and Myers, John W., 4,657,663, Cl. 208-210.000.
  Sughrue, Edward L., II; Kukes, Simon G.; and Hogan, Robert J., 4,715,948, Cl. 208-251.00H.
Hogan, Thomas C.; and Adelman, Arnold, to Prime Computer, Inc. Data transmission signal apparatus. 4,639,936, 1-27-87, Cl. 375-36.000.
Hogan, Timothy. Power tool device. 4,680,831, 7-21-87, Cl. 17-23.000.
Hogan, William H., III. Removable automobile body protective guard with lockable attachment. 4,674,783, 6-23-87, Cl. 293-128.000.
Hoganas AB: *See—*
  Engstrom, Ulf F., 4,676,831, Cl. 75-252.000.
  Engstrom, Ulf F. I.; Allroth, Sven E.; and Mustonen, Olavi M., 4,702,772, Cl. 75-243.000.
  Oka, Kazuyoshi; Katayama, Mitsuhiro; Kohno, Toshihiko; Engstrom, Ulf; and Larssen, Svenn-Erik, 4,663,262, Cl. 430-108.000.
  Svensson, Lars-Erik; and Thornblad, Ove, 4,659,547, Cl. 419-6.000.
Hoganson, Gerald G.: *See—*
  Brown, Trevor J.; and Hoganson, Gerald G., 4,645,269, Cl. 301-37.00P.
Hogarth, Peter J. M., to Easfind Limited. Cementing apparatus and methods. 4,664,192, 5-12-87, Cl. 166-291.000.
Hogberg, Kjell T.; and Forsberg, K. Torsten. Transportation device. 4,655,670, 4-7-87, Cl. 414-458.000.
Hogberg, Leif, to Jydsk Teknologisk Institut. Apparatus for individually depositing articles. 4,690,301, 9-1-87, Cl. 221-2.000.
Hogden, John D., Sr.; and Clelland, Charles M., to HoPeC Enterprises, Inc. Fish gripping device. 4,645,253, 2-24-87, Cl. 294-19.100.
Hoge, Ned W., to United Controls, Inc. Pneumatic control assembly for a pneumatic cylinder. 4,651,625, 3-24-87, Cl. 91-461.000.
Hoge, Rudiger: *See—*
  Osypka, Peter; and Hoge, Rudiger, 4,633,880, Cl. 128-642.000.
Hogeboom, John G.; Thomas, Terry N.; Yarak, Dennis A.; and Anderson, Arlan J., to Northern Telecom Limited. Adaptive equalizer. 4,650,930, 3-17-87, Cl. 379-93.000.
Hogeboom, John G.; and Thomas, Terence N., to Northern Telecom Limited. Digital line receiver. 4,679,209, 7-7-87, Cl. 375-17.000.
Hogeboom, John G.: *See—*
  Theriault, Robert E.; and Hogeboom, John G., 4,679,302, Cl. 29-571.000.
Hogel, Joseph E.: *See—*
  Larsen, Larry D.; Yung, Richard C. S.; Leung, Wing K.; and Hogel, Joseph E., 4,691,794, Cl. 177-211.000.
Hogendobler, Richard S.: *See—*
  Forney, Edgar W., Jr.; and Hogendobler, Richard S., 4,650,271, Cl. 339-177.00R.
  Forney, Edgar W., Jr.; and Hogendobler, Richard S., 4,662,703, Cl. 339-177.00R.
  Forney, Edgar W., Jr.; and Hogendobler, Richard S., 4,712,296, Cl. 29-828.000.
Hogenhout, Franciscus, to West Coast Industries, Inc. Method and apparatus for hole coldworking. 4,665,732, 5-19-87, Cl. 72-393.000.
Hogenkamp, Wilhelm, to Otto Hansel GmbH. Device for synchronizing a series of packaging machines positioned along a chain conveyor, especially in the confections industry. 4,660,350, 4-28-87, Cl. 53-52.000.
Hogenson, Milan C. In tank fuel line heater. 4,656,979, 4-14-87, Cl. 123-142.50R.
Hogenson, Peter A.: *See—*
  Hamermesh, Charles L.; Dynes, Paul J.; and Hogenson, Peter A., 4,695,619, Cl. 528-73.000.
Hogenson, Raymond A., to Minnesota Mining and Manufacturing Company. Automatic tape splicing machine. 4,643,783, 2-17-87, Cl. 156-64.000.
Hogenson, Tad C., to T. Parker Distributing Company, Inc. Platen assembly for screen printing. 4,708,057, 11-24-87, Cl. 101-129.000.
Hogg, David C., to United States of America, Commerce. Phased antenna array for wind profiling applications. 4,647,933, 3-3-87, Cl. 342-26.000.
Hogg, George A., to Sonat Subsea Services (UK) Limited. Apparatus for cleaning pipes. 4,688,290, 8-25-87, Cl. 15-104.040.
Hogg, James W., to Anchor Wire Corporation of Tennessee. Method of mounting an article to a substrate. 4,669,169, 6-2-87, Cl. 29-432.00
Hogg, John A. Apparatus for comb honey. 4,639,962, 2-3-87, Cl. 6-2.00R.
Hogh, Josef; and Schacht, Hans, to Robert Bosch GmbH. Fuel filter apparatus and the method of manufacture. 4,702,790, 10-27-87, Cl. 156-293.000.
Hoglander, Bjorn: *See—*
  Lobell, Hans; Svensson, Klas G.; Gladh, Goran; and Hoglander, Bjorn, 4,637,213, Cl. 60-685.000.
Hoglund, Hans E.: *See—*
  Peterson, Per V.; Hoglund, Hans E.; and Johansson, Alf O. K., 4,635,864, Cl. 241-251.000.
Hogman, Leif B.: *See—*
  Broddner, Sven M.; Hogman, Leif B.; Nyman, Rune; and Kistholm, Lars, 4,657,008, Cl. 128-203.270.
Hognestad, Harek, to Sentralinstitutt for Industriell Forskning. Method and a device for monitoring large metal structures. 4,656,595, 4- Cl. 364-507.000.
Hogshead, Rodney C., III; and Van Duyne, Giles, Jr. Fastener for plastic film sheeting. 4,682,642, 7-28-87, Cl. 160-392.000.
Hoguchi, Tetsuya; and Morita, Shigeru, to O-Oka Forge Co. Ltd. Method for machining clutch gear for automobile transmission. 4,672,729, 6-16-87, Cl. 29-159.200.
Hogue, Melissa L.: *See—*
  Storey, Robson F.; Dantiki, Sudhakar; Hogue, Melissa L.; and Bayer, Arthur C., 4,666,978, Cl. 525-35.000.
Hohage, Heinz-Juergen: *See—*
  Besecke, Siegmund; Liebler, Ralf; Hohage, Heinz-Juergen; and Schroeder, Guenter, 4,652,656, Cl. 548-261.000.
Hohberg, Gerhard, to Carl-Zeiss-Stiftung. Articulated optical system having an arrangement for correcting the position of a laser beam. 4,707,596, 11-17-87, Cl. 250-201.000.
Hohberg, Gerhard: *See—*
  Muller, Gerhard; Hohberg, Gerhard; and Greve, Peter, 4,659,9 Cl. 250-201.000.
Hohenester, Otmar: *See—*
  Osthoff, Walter; Hohenester, Otmar; and Gessner, Anton, 4,641,403, Cl. 26-3.000.
Hohenwarter, Gert K. G., to Hypres, Inc. Open cycle cooling of electrical circuits. 4,715,189, 12-29-87, Cl. 62-64.000.
Hohjoh, Susumu, to Sharp Kabushiki Kaisha. Document-conveying copying machine. 4,647,183, 3-3-87, Cl. 355-8.000.
Hohki, Tetsuo; Sano, Tetsuo; Kodama, Eiji; and Tsujinaka, Hisayuki, to Dainippon Screen Mfg. Co., Ltd. Image pickup apparatus for a printed wiring board. 4,682,040, 7-21-87, Cl. 250-571.000.
Hohl, Ernst: *See—*
  Frei, Siegfried; and Hohl, Ernst, 4,661,379, Cl. 427-181.000.
  Frei, Siegfried; and Hohl, Ernst, 4,696,253, Cl. 118-308.000.
Hohl, Erwin: *See—*
  Meyer, Rolf-Volker; Kreuder, Hans-Joachim; and Hohl, Erwin, 4,698,426, Cl. 544-253.000.
Hohl, Frank: *See—*
  Lange, Werner; Hohl, Frank; and Szablikowski, Klaus, 4,703,0 Cl. 525-161.000.
Hohl, Hans-Walter: *See—*
  Gunther, Andréas; Malone, James R.; Lenthe, Manfred; and Hohl, Hans-Walter, 4,683,308, Cl. 544-211.000.
Hohla, Kristian: *See—*
  Scott, Peter B.; and Hohla, Kristian, 4,709,373, Cl. 372-86.000.
Hohlein, Gunter; Hempelmann, Wilhelm; Waldenmeier, Gunter; Koster, Rainer; Meyer, Fritz; and Pfeifer, Ulrich, to Kernforschungszentrum Karlsruhe GmbH. Stackable long-term storage container, preferably for radioactive waste. 4,643,311, 2-17-87, Cl. 206-508.000.
Hohlein, Peter; Schmidt, Manfred; Pedain, Josef; Riberi, Bernd; and Sonntag, Michael, to Bayer Aktiengesellschaft. Cross-linkable polymer resins and use thereof as binders for coating agents. 4,639,4 1-27-87, Cl. 526-285.000.
Hohlein, Peter; Fehlbier, Alois; and Gruber, Hermann, to Bayer Aktiengesellschaft. Polyhydroxyl compounds containing ether and ester groups and their use in the production of polyurethane plastics. 4,677,181, 6-30-87, Cl. 528-74.500.
Hohlein, Peter: *See—*
  Stahl, Hans G.; Hohlein, Peter; Traenckner, Hans-Joachim; Fleiter, Lothar; and Schwindt, Jurgen, 4,684,691, Cl. 524-534.000.
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Decker, Ronald G.; Hohmann, John P.; and Morones, George R., 4,667,868, Cl. 228-49.100.

Hohmann, Thomas, to Honeywell GmbH. Apparatus for simulation of visual fields of view. 4,641,255, 2-3-87, Cl. 364-522.000.

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Glass, Michael; Hoholick, Joseph; and Orlandi, Daniel A., 4,683,138, Cl. 426-5.000.

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Hampton, Leonard; and Hohulin, Samuel E., 4,648,149, Cl. 15-360.000.
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Rye, Kjell, 4,663,498, Cl. 174-189.000.

Hoiss, Jakob. Diaphragm valve. 4,653,526, 3-31-87, Cl. 137-240.000.

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Hojo, Nobumasa: *See—*
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Hok, Bertil, to Radisensor AB. Device for recording physiological pressures. 4,712,566, 12-15-87, Cl. 128-748.000.

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Bigge, Christopher F.; Elslager, Edward F.; French, James C.; Graham, Blanche D.; Hokanson, Gerard C.; Mamber, Stephen W.; Smitka, Tim A.; Tunac, Josefino B.; and Wilton, John H., 4,657,909, Cl. 514-249.000.
Kay, Allen L.; and Hokanson, Gerard C., 4,696,912, Cl. 514-7.000.
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Wilton, John H.; Hokanson, Gerard C.; and French, James C., 4,661,353, Cl. 424-123.000.

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Hokari, Sadao; Hori, Takamasa; Komuro, Katsu; Hatakeyama, Takanobu; Narita, Toshiroo; Katayama, Yasunori; and Arahori, Noboru, to Hitachi, Ltd. Controller for AC elevator. 4,661,757, 4-28-87, Cl. 318-798.000.

Hokari, Tomio: *See—*
Houkita, Atsushi; and Hokari, Tomio, 4,689,959, Cl. 60-602.000.

Hokazono, Kazuaki: *See—*
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Hoki, Testuo: *See—*
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Hokkaido University: *See—*
Aoki, Yoshiaki; Kayukawa, Naoyuki; Yamazaki, Hatsuo; Ozawa, Yasutomo; and Kitagawa, Hiroki, 4,707,147, Cl. 374-161.000.

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Honkaniemi, Matti E.; Mustikka, Lauri A.; Jankkila, Martti J.; Hokkanen, Pentti O.; Heikkila, Risto M.; and Lilja, Launo L., 4,705,474, Cl. 432-14.000.
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Hokoda, Kazuaki: *See—*
Yasui, Masaru; Hokoda, Kazuaki; and Yoshida, Makoto, 4,676,195, Cl. 118-723.000.

Hokoku Chain Co., Ltd.: *See—*
Kanayama, Hitoshi, 4,696,236, Cl. 104-165.000.

Hokuetsu Industries Co., Ltd.: *See—*
Tanaka, Masanori; Maehara, Atsushi; and Kanai, Junichi, 4,679,996, Cl. 418-201.000.

Hokuriku Pharmaceutical Co., Ltd.: *See—*
Itho, Yasuo; Kato, Hideo; Ogawa, Nobuo; Yamagishi, Kagari; Koshinaka, Eiichi; and Nishino, Hiroyuki, 4,638,009, Cl. 514-428.000.

Hokushin Kogyo Kabushiki Kaisha: *See—*
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Hol, Willem A.: *See—*
Gellekink, Bernard; and Hol, Willem A., 4,649,395, Cl. 342-158.000.
Gellekink, Bernard; and Hol, Willem A., 4,667,200, Cl. 342-202.000.

Holaday Circuits, Inc.: *See—*
Larson, James R., 4,709,207, Cl. 324-158.00F.

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- Holand, Wolfram: *See—*
  - Vogel, Jurgen; Holand, Wolfram; and Vogel, Werner, 4,698,318, Cl. 501-10.000.
- Holanda, Ladislav: *See—*
  - Walker, Michael; and Holanda, Ladislav, 4,665,347, Cl. 315-411.000.
- Holbein, Bruce E.; Brener, David; Greer, Charles; and Browne, Eric N. C., to DeVoe-Holbein International, N.V. Insoluble compositions for removing mercury from a liquid medium. 4,654,322, 3-31-87, Cl. 502-403.000.
- Holben, Larry B.: *See—*
  - Eberhart, Laurence L.; and Holben, Larry B., 4,685,259, Cl. 52-144.000.
  - Fearon, William W.; Eberhart, Laurence L.; Millspaugh, Rick G.; and Holben, Larry B., 4,699,836, Cl. 428-73.000.
- Holben, Tod M.: *See—*
  - Richmond, Donald W.; Clyne, Carl W.; and Holben, Tod M., 4,693,902, Cl. 426-407.000.
- Holbrook, Cheryl L.: *See—*
  - Gimpelson, George E.; Holbrook, Cheryl L.; and Hause, Frederick N., 4,705,596, Cl. 156-643.000.
  - Gimpelson, George E.; Holbrook, Cheryl L.; and Rivoli, Anthony L., 4,705,597, Cl. 156-643.000.
- Holbrook, Gerald W.: *See—*
  - Killop, James T.; and Holbrook, Gerald W., 4,644,772, Cl. 72-88.000.
  - Killop, James T.; and Holbrook, Gerald W., 4,689,980, Cl. 72-88.000.
- Holbrook, James H. Adjustable pedestal for boat seats. 4,700,921, 10-20-87, Cl. 248-421.000.
- Holbrook, Nicholas: *See—*
  - Wilkinson, John; and Holbrook, Nicholas, 4,711,061, Cl. 52-410.000.
- Holbrook, Philip: *See—*
  - Bradley, William B.; and Holbrook, Philip, 4,710,906, Cl. 367-35.000.
- Holbrook, Richard L.: *See—*
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- Holcblat, Alain H.; Sundheimer, Patrick; and Pascal, Yves, to Framatome. Steam generating apparatus having a feedwater header. 4,648,354, 3-10-87, Cl. 122-32.000.
- Holck, Jens-Peter; Mertens, Alfred; Kampe, Wolfgang; Muller-Beckmann, Bernd; Sponer, Gisbert; and Strein, Klaus, to Boehringer Mannheim GmbH. Pyrrolobenzimidazoles for treating heart or circulatory diseases. 4,666,923, 5-19-87, Cl. 514-338.000.
- Holck, Jens-Peter: *See—*
  - Mertens, Alfred; Holck, Jens-Peter; Berger, Herbert; Muller-Beckmann, Bernd; Strein, Klaus; and Roesch, Egon, 4,695,567, Cl. 514-253.000.
  - Mertens, Alfred; Holck, Jens-Peter; Kampe, Wolfgang; Muller-Beckmann, Bernd; Strein, Klaus; and Schaumann, Wolfgang, 4,710,510, Cl. 514-394.000.
- Holcomb, David A.; and Tryon, James A., to Fite, F. Bartow. Combination condiment grinder and dispenser. 4,697,749, 10-6-87, Cl. 241-169.000.
- Holcomb, Jack N. Transmitter battery case. 4,653,115, 3-24-87, Cl. 455-128.000.
- Holcomb, Kenneth L. Adapter plug for personal computers. 4,659,161, 4-21-87, Cl. 339-113.00L.
- Holcomb, Robert R., to Superior Marketing Research Corp. Self-contained cooling device for food containers. 4,688,395, 8-25-87, Cl. 62-294.000.
- Holcombe, Cressie E., Jr.: *See—*
  - Chapman, Lloyd R. and Holcombe, Cressie E., Jr., 4,711,666, Cl. 106-14.120.
- Holcombe, Wayne T.: *See—*
  - Busam, Vincent A.; Bell, James C.; and Holcombe, Wayne T., 4,647,721, Cl. 379-102.000.
- Holcroft, Brian: *See—*
  - Roberts, Gareth G.; Blackburn, Brian; Petty, Michael C.; and Holcroft, Brian, 4,645,693, Cl. 427-402.000.
- Holdeman, David A.: *See—*
  - Langenbeck, Keith A.; and Holdeman, David A., 4,711,357, Cl. 209-565.000.
- Holden, Anthony J.: *See—*
  - Oxley, Christopher H.; and Holden, Anthony J., 4,675,712, Cl. 357-22.000.
- Holden, Edward S. Rapid response pressure gauge spring. 4,667,517, 5-26-87, Cl. 73-743.000.
- Holden, Harold C.; and Holden, June. Alarm system. 4,692,743, 9-8-87, Cl. 340-544.000.
- Holden, Homer N.: *See—*
  - Cothran, Liggett A.; Morgan, Edward L.; Stevens, Robert E.; Holden, Homer N.; and Ensley, R. Neal, 4,655,986, Cl. 264-508.000.
- Holden, Ian; and Malings, Michael J., to International Business Machines Corporation. Graphic display with determination of coincidence of subject and clip areas. 4,698,779, 10-6-87, Cl. 364-520.000.
- Holden, June: *See—*
  - Holden, Harold C.; and Holden, June, 4,692,743, Cl. 340-544.000.
- Holden, Richard. Combinatorial keyboards which encode characters and a space. 4,655,621, 4-7-87, Cl. 400-100.000.
- Holden, Richard L.: *See—*
  - Eisen, Steven P.; and Holden, Richard L., 4,704,042, Cl. 402-79.000.
- Holden, Robert L.: *See—*
  - Licht, Robert H.; and Holden, Robert L., 4,657,563, Cl. 51-308.000.
- Holden, Stephen: *See—*
  - Llewellyn, Michael; and Holden, Stephen, 4,637,413, Cl. 134-111.000.
- Holden, Thomas F.; and Baumann, Albert F., to Lubrizol Corporation, The. Process for reducing sulfur-containing contaminants in sulfonated hydrocarbons. 4,677,074, 6-30-87, Cl. 423-541.00A.
- Holden, Thomas W. Noise reduction system. 4,703,507, 10-27-87, Cl. 381-94.000.
- Holdener, Franz. Credit and identification card holder. 4,697,6 10-6-87, Cl. 206-39.400.
- Holder, Clinton H., Jr.; Kirsch, Howard C.; and Stefany, James H., to AT&T Bell Laboratories. Semiconductor memory with boosted word line. 4,649,523, 3-10-87, Cl. 365-203.000.
- Holder, Donald W.; and Phillips, William R., to United States of America, Army. Electronic image stabilization. 4,637,571, 1-20-87, Cl. 244-3.160.
- Holder, James D., to United States of America, Army. Optic-coupled integrated circuits. 4,695,120, 9-22-87, Cl. 350-96.110.
- Holder, James D.: *See—*
  - Greene, Hugh W.; Holder, James D.; and Knaur, James A., 4,710,912, Cl. 369-218.000.
- Holder, Joseph P.: *See—*
  - Dressler, John L.; McConnell, Bobby L.; Glenn, Michael L.; and Holder, Joseph P., 4,650,694, Cl. 427-32.000.
- Holder, Kurt, to Chr. Eisele Maschinenfabrik GmbH & Co. KG. Machine saw. 4,669,348, 6-2-87, Cl. 83-466.100.
- Holder, Larry. Boat anchor including releasable coupling means. 4,655,158, 4-7-87, Cl. 114-297.000.
- Holder, Tommie J.: *See—*
  - Sullivan, Robert W.; Holder, Tommie J.; and Buchanan, Max 4,648,358, Cl. 123-43.00A.
- Holderle, Hans; Wolf, Jurgen; Eckhart, Horst; and Vonderau, Werner, to Andreas Stihl. Connecting piece between the carburetor and the combustion chamber of an internal combustion engine. 4,711,2 12-8-87, Cl. 123-590.000.
- Holdredge, Ernest C., Jr., to Ziff-Davis. Modular storage device. 4,653,649, 3-31-87, Cl. 211-41.000.
- Holdren, Earl J.; Owski, Alexander J.; and Fouts, Paul G., to Chrysler Motors Corporation. Fiber optic multiplexed data acquisition system. 4,707,823, 11-17-87, Cl. 370-1.000.
- Holdridge, David W., to Swedlow, Inc. Contoured transparency providing reduced optical distortion and method for making it. 4,682,8 7-28-87, Cl. 350-319.000.
- Holdridge, Warren B. Hydraulic nosepiece assembly for a collet closer and method. 4,690,415, 9-1-87, Cl. 279-4.000.
- Holdsworth, Timothy M., to Northeast Filter Co., Inc. Tar filter assembly. 4,701,726, 10-20-87, Cl. 333-185.000.
- Holdt, Bernd-Dieter; Menke, Ronald; Praus, Gerd; and Hasselbach, Petra, to Henkel Kommanditgesellschaft auf Aktien. Two-component cleaner and disinfectant tablet. 4,683,072, 7-28-87, Cl. 252-102.000.
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  - Soldanski, Heinz-Dieter; Holdt, Bernd-Dieter; and Meier, Ursula, 4,659,494, Cl. 252-88.000.
- Holdt, Donald H., to Cambridge Technologies, Inc. Convertible wheelchair/litter. 4,691,962, 9-8-87, Cl. 297-84.000.
- Hole, David B.: *See—*
  - Peterson, Thomas W.; Hole, David B.; and Mintz, S. Stanley, 4,678,952, Cl. 310-83.000.
- Hole, Victor H. R.: *See—*
  - Camp, Philip G.; Macklen, Eric D.; Hole, Victor H. R.; and Hutcherson, David R., 4,702,619, Cl. 374-144.000.
- Holec Systemen en Componenten B.V.: *See—*
  - Lipperts, Joseph H. F. G., 4,636,600, Cl. 200-144.00B.
  - Ponsioen, Ysbrand P. J. M.; and Kemper, Johannes A., 4,644,442, Cl. 361-341.000.
  - van de Klundert, Louis J. M.; ten Kate, Herman H. J.; Sikkenga, Jan; Groenenboom, Maarten; and Lisser, Jacques, 4,709,314, Cl. 363-14.000.
  - van Riemsdijk, Gerardus A.; and Muller, Fredericus F. M., 4,663,603, Cl, 336-60.000.
- Holecek, Allen R.: *See—*
  - Breitenstein, Charles T.; and Holecek, Allen R., 4,680,896, Cl. 51-215.0UE.
- Holem, Terry W. Collapsible grocery bag carrier. 4,657,295, 4-14-87, Cl. 294-162.000.
- Holen, James T.; and Schultz, Steven G., to Abbott Laboratories. Automatic centrifugal balancing mechanism. 4,671,940, 6-9-87, Cl. 422-72.000.
- Holen, Larry K.: *See—*
  - Discher, Vernon L.; Holen, Larry K.; and Mehl, Donald N., 4,665,652, Cl. 49-460.000.
- Holenka, Jacques M., to Schlumberger Technology Corporation. Well logging sonde with shielded collimated window. 4,661,700, 4-28-87, Cl. 250-267.000.
- Holewinski, Robert D.; Blatherwick, William J.; Hamilton, Leslie; and Wells, Thomas E., Sr., to Johnson & Johnson Dental Products Company. Direct delivery system for dental materials. 4,708,650, 11-24-87, Cl. 433-90.000.
- Holewinski, Robert D.: *See—*
  - Blatherwick, William J.; Hamilton, Leslie; Holewinski, Robert D.; Shen, Virginia A.; Kapec, Jeffrey; and Tanaka, Kazuna, 4,693,684, Cl. 433-90.000.

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k, Herbert, to Sulzer-Escher Wyss GmbH. Device for decelerating
st-flow currents of white water. 4,714,522, 12-22-87, Cl.
62-264.000.

k, Herbert: *See—*
Heitmann, Peter; Holik, Herbert; and Mirsberger, Peter, 4,661,206, Cl. 162-358.000.

inski, Ruediger, to Dow Corning GmbH. Solid lubricant combina-
on and utilization thereof in friction linings. 4,663,060, 5-5-87, Cl.
52-12.000.

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alve for use in pressure converter. 4,672,203, 6-9-87, Cl. 250-289.000.

l, Norbert: *See—*
Gruehn, Dietrich; Fehrenbach, Hubert; and Holl, Norbert, 4,688,129, Cl. 360-133.000.

l, Richard A. Fluid handling apparatus. 4,670,103, 6-2-87, Cl.
65-109.100.

l, Richard A. Construction and method for improving heat transfer
nd mechanical life of tube-bundle heat exchangers. 4,708,198,
1-24-87, Cl. 165-109.100.

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Abendroth, Paul; Holl, Roland; Mathes, Josef; and Dettinger, Dietrich, 4,664,032, Cl. 101-230.000.

lladay, Wilfred E. Book holder. 4,681,291, 7-21-87, Cl. 248-444.100.

lland, Alex, to Fairchild Semiconductor Corporation. Method and
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lland, Christine: *See—*
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4-7-87, Cl. 430-2.000.

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Misic, George J.; Lillo, Aarne; Patrick, John L.; and Holland, G. Neil, 4,634,980, Cl. 324-322.000.

olland, George E.; Struve, Walter S.; and Homer, John F., to Iowa State University Research Foundation, Inc. Real time speech formant analyzer and display. 4,641,343, 2-3-87, Cl. 381-48.000.

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Chan, Ka-Kong; Holland, George W.; and Rosen, Perry, 4,642,364, Cl. 556-438.000.
Coffen, David L.; Holland, George W.; Mandeville, W. Harry; Rosen, Perry; and Wong, Frederick, 4,707,555, Cl. 549-311.000.

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olland, Gordon A., to Dover Corporation. Digital selector system for elevators. 4,658,935, 4-21-87, Cl. 187-122.000.

olland Hitch (AUST.) Ltd.: *See—*
Wilson, James A.; and Ellis, James R., 4,671,527, Cl. 280-438.00R.

olland Hitch Company: *See—*
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Holland, John H.; and Burks, Arthur W. Adaptive computing system capable of learning and discovery. 4,697,242, 9-29-87, Cl. 364-513.000.

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Holland, John M., to Chevron Research Company. Fiber optic receiver having a method and an apparatus for data clock extraction. 4,679,252, 7-7-87, Cl. 455-619.000.

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Porter, David R.; Bowen, James H.; and Holland, John M., 4,694,504, Cl. 455-608.000.
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Holland Mechanics B.V.: *See—*
Damman, Cornelis C., and Plaatsman, Jacob, 4,673,016, Cl. 157-1.240.

Holland, Michael H. Ankle brace. 4,651,726, 3-24-87, Cl. 128-166.000.

Holland, Orin W.: *See—*
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Holland, Simon J. R., to Stanhay Webb Limited. Seed dispensing mechanisms. 4,688,698, 8-25-87, Cl. 221-211.000.

Holland, Willard D., to B-Bar-B, Inc. Apparatus for handling liquid filled flexible plastic bags. 4,648,233, 3-10-87, Cl. 53-55.000.

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Hollander, Gary T., and Blum, Mel, to Atomergic Chemetals Corporation. Denatonium saccharide, compositions and method of use. 4,652,577, 3-24-87, Cl. 514-373.000.

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Brilman, Albert; and Harbers, Hermanus Gerhardus J., 4,663,631, Cl. 342-422.000.
Gellekink, Bernard; and Hol, Willem A., 4,649,395, Cl. 342-158.000.
Gellekink, Bernard; and Hol, Willem A., 4,667,200, Cl. 342-202.000.
Gellekink, Bernard; and Teulings, Wilhelmus A., 4,670,755, Cl. 342-194.000.
Gietema, Jouke; and Oude Elberink, Bernard H. M., 4,710,773, Cl. 342-185.000.
Kolhoff, Hendrik, 4,647,939, Cl. 343-765.000.
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Oliver, Larry R.; Hill, James D., Jr.; Lewis, Charles M.; Hollaway, Gerald C., Jr.; and Nelson, Jack, 4,690,665, Cl. 474-245.000.

Hollaway, Jerrell P. Remotely controlled light flasher. 4,634,957, 1-6-87, Cl. 323-242.000.

Holle, Bernd: *See—*
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Seevinck, Evert; Wassenaar, Roelof F.; and Holle, Eerke, 4,682,098, Cl. 323-315.000.

Holle, Hans-Joachim; and Morlock, Gerhard, to Degussa Aktiengesellschaft. Process for the production of suspension polymerizates. 4,677,173, 6-30-87, Cl. 526-193.000.

Holle, Wilhelm: *See—*

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Hollenbeak, Keith H.; and Brown, Paul S., Jr., to Halliburton Company. Clay stabilizing agent preparation and use. 4,693,639, 9-15-87, Cl. 405-263.000.

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Holler, Richard P.; and McMath, Connie W., to United Technologies Corporation. Cooling liner for convergent-divergent exhaust nozzle. 4,643,356, 2-17-87, Cl. 239-13.000.

Holler, Roland, to Diehl GmbH & Co. Additive sealing sleeve for large-calibered cannon ammunition for the protection of the weapon barrel. 4,715,285, 12-29-87, Cl. 102-435.000.

Holleran, Louis M.; and Martin, Francis W., to Corning Glass Works. Glass-ceramics suitable for dielectric substrates. 4,714,687, 12-22-87, Cl. 501-9.000.

Holleran, Peter M., to W. R. Grace & Co. Method of reducing failure of pressurized container valves. 4,667,855, 5-26-87, Cl. 222-152.000.

Hollerweger, Heinz; Kuipers, Geert; Steiner, Peter; and Zahl, Josef, to Audi AG. Apparatus for steering an automotive vehicle. 4,652,011, 3-24-87, Cl. 280-771.000.

Hollerweger, Heinz; Aden, Bodo; Kuipers, Geert; and van den Boom, Johannes. Hydraulic engine mount. 4,671,227, 6-9-87, Cl. 123-192.00R.

Holley, Edwin S.; and McBee, James A. Tiltable mount. 4,659,053, 4-21-87, Cl. 248-663.000.

Holley Engineering Company, Inc.: *See—*

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Rumens, Kurt W. F.; Holley, Robert E., Jr.; Atembowski, Alan; and Barnett, Stockton, 4,665,889, Cl. 126-77.000.

Hollfritsch, Erich: *See—*

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Holliday Amusement Company, Inc. of Charleston: *See—*

Marlow, John, 4,673,828, Cl. 307-139.000.

Holliday, Lawrence E.: *See—*

Ebert, Philip C.; and Holliday, Lawrence E., 4,646,255, Cl. 364-578.000.

Holliday, Richard J.: *See—*

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Hollinden, David E.: *See—*

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Tamer, Gregory G.; and Hollinden, David E., 4,639,786, Cl. 358-197.000.

Hollinger, Gus. Window sill burglar alarm. 4,677,424, 6-30-87, Cl. 340-547.000.

Hollingshead, Gerald E.: *See—*

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Clough, Douglas O., 4,651,516, Cl. 57-401.000.

Clough, Douglas O.; and Yates, Stephen W., 4,698,961, Cl. 57-405.000.

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Whiteley, John, 4,696,436, Cl. 242-35.50R.

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Hollis, Ralph L., Jr.: *See—*

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Hollis, Richard E.; and Greene, Mark D., to ITT Corporation. Drive mechanism for searchlights. 4,688,448, 8-25-87, Cl. 74-665.00L.

Hollis, Richard G., to Mount Isa Mines Limited; and Commonwealth Scientific and Industrial Research Organization. Treatment of dros 4,678,507, 7-7-87, Cl. 75-24.000.

Hollister, Allen L., to Tektronix, Inc. Triggered frequency locked oscillator having programmable delay circuit. 4,646,030, 2-24-87, Cl. 331-1.00A.

Hollister, Allen L.: *See—*

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Hollister Incorporated: *See—*

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Nowak, George M.; and Stupar, James A., 4,699,616, Cl. 604-180.000.

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Hollmann, Bernd, to Kochsiek Maschinenbau GmbH Soltau. Method and apparatus for manufacturing folding paper sacks. 4,634,414, 1-6-87, Cl. 493-213.000.

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Holloman, Charles J., to Trans-Lux Corporation. Electronic display unit. 4,682,162, 7-21-87, Cl. 340-799.000.

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Holloway, Brian L.: *See—*

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Holloway, Oris E., Jr.: *See—*

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llowood, John; Jackson, Arthur; and Heyes, Graham, to Fine Organ- s Limited. Preparation of thiazine derivatives. 4,687,845, 8-18-87, Cl. 544-54.000.

llrock Engineering, Inc.: *See*—
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llstein, Thomas E.; O'Ryan, David E.; and Waryu, Joseph C., to Nordson Corporation. Powder spray gun. 4,634,058, 1-6-87, Cl. 39-697.000.

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lm, Albert E.; and Holm, Grant A. Method and apparatus for detect- ng leaks. 4,686,851, 8-18-87, Cl. 73-49.200.

lm, Bjarne R.: *See*—
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lm, David A.: *See*—
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lm, David R., and Peterson, Rudolph A., Jr., to Deere & Company. Seat suspension for an off-road vehicle. 4,714,227, 12-22-87, Cl. 248-595.000.

lm, Grant A.: *See*—
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lm, Karl; and Bisgaard, Hans F., to Holm, Karl. Disposable maximum reading thermometer and a method for the production thereof. 4,647,224, 3-3-87, Cl. 374-162.000.

lm, Lauri I., to Systemteknik AB. Arrangement in a load cell. 4,685,526, 8-11-87, Cl. 177-211.000.

lm, LeRoy W., to Union Oil Company of California. Method for foam emplacement in carbon dioxide enhanced recovery. 4,706,752, 11-17-87, Cl. 166-273.000.

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lm, Niels E., to Danagraf A/S. Method and apparatus for the control of a reproduction camera. 4,690,548, 9-1-87, Cl. 355-77.000.

lm, Timothy R. Microwave radiating antennae hydraulic adjustment apparatus and method. 4,707,992, 11-24-87, Cl. 60-721.000.

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olmberg, Dick L. Shoreline erosion control mat and method of use therefor. 4,657,433, 4-14-87, Cl. 405-26.000.

olmberg, Dick L. Erosion control foundation mat and method. 4,690,585, 9-1-87, Cl. 405-19.000.

olmberg, Dick L. L., legal representative: *See*—
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olmberg, Douglas A. Portable growing system. 4,658,542, 4-21-87, Cl. 47-86.000.

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Coates, Derek, 4,643,451, Cl. 283-56.000.

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Parker, John, 4,655,040, Cl. 60-602.000.

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  - Goss, Gary J.; Moles, Robert G. H.; Hinrichs, Randall D.; and Holtey, Thomas O., 4,651,329, Cl. 375-94.000.
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- Holtgraver, Edward G., to Keystone International, Inc. Apparatus for connecting a valve element to a valve stem. 4,711,427, 12-8-87, Cl. 251-308.000.
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  - Holton, Paul E., 4,675,195, Cl. 426-100.000.
- Holton, Lawrence C., to Krueger, Inc. Folding table. 4,658,735, 4-21-87, Cl. 108-131.000.
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- Holtz, Edwin R.: *See—*
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  - Gautherot, Daniel; and Holtzer, Dominique, 4,677,446, Cl. 346-52.000.
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- Holzapfel, Heinz: *See—*
  - Reckziegel, Erich; and Holzapfel, Heinz, 4,692,370, Cl. 428-198.000.
- Holzapfel, Klaus, to M.A.N.-Roland Druckmaschinen Aktiengesellschaft. Coaxial shaft connection for a printing machine cylinder. 4,640,190, 2-3-87, Cl. 101-348.000.
- Holzberger, Johann: *See—*
  - Cremosnik, Gregor; Tiaper, Joachim; and Holzberger, Johann, 4,709,875, Cl. 244-3.130.
- Holze, Ernest P., Jr., to Branson Ultrasonics Corp. Anvil for ultrasonic sliting apparatus. 4,711,693, 12-8-87, Cl. 156-580.100.
- Holzel, Martin: *See—*
  - Buck, Manfred; Fehrle, Siegfried; Holzel, Martin; Kabatnik, Wilfried; Schmid, Wolfgang; and Wanner, Karl, 4,693,407, Cl. 227-109.000.
- Holzemann, Gunter; Raddatz, Peter; Jonczyk, Alfred; and Schmitges, Claus J., to Merck Patent Gesellschaft mit beschrankter Haftung. Peptides useful for inhibition of renin. 4,709,010, 11-24-87, Cl. 530-323.000.
- Holzer, Gerhard: *See—*
  - Breuer, Kornelia; Gelderie, Udo; Holzer, Gerhard; and Raedisch, Helmer, 4,684,694, Cl. 524-730.000.
  - Frisch, Kurt C.; Klempner, Daniel; Radisch, Helmer; and Holzer, Gerhard, 4,705,721, Cl. 428-349.000.
  - Musil, Ingrid; Holzer, Gerhard; and Raedisch, Helmer, 4,657,796, Cl. 428-38.000.
- Holzer, Walter. Storage medium for electronic data processing. 4,660,172, 4-21-87, Cl. 365-2.000.
- Holzgrefe, Volker: *See—*
  - Eblen, Ewald; Hofmann, Karl; Holzgrefe, Volker; Pigeroulet, Jean; Rodriguez-Amaya, Nestor; Simon, Nikolaus; Trachte, Dietrich; Weiss, Friedrich; and Ziegler, Ewald, 4,653,455, Cl. 123-506.000.
- Holzhausen, Alan D.: *See—*
  - Darling, Richard S.; Goodrich, Stanley R., Jr.; and Holzhausen, Alan D., 4,673,051, Cl. 180-132.000.
- Holzhausen, Sonja H.: *See—*
  - Dunn, Kinion H.; Pack, Michael L.; and Holzhausen, Sonja H., 4,664,684, Cl. 55-498.000.
- Holzhausen, Wieland; and Albecker, Kurt, to IWK Regler und Kompensatoren GmbH. Flexible coupling for pipes in exhaust systems of motor vehicles. 4,659,117, 4-21-87, Cl. 285-49.000.
- Holzinger, Dieter: *See—*
  - Grossmann, Udo; Holzinger, Dieter; and Rohde, Guenter, 4,695,004, Cl. 242-56.00R.
- Holzinger, Gerhard; Meins, Jurgen; and Miller, Luitpold, to Thyssen Industrie AG. Excitation arrangement for a long stator drive. 4,636,667, 1-13-87, Cl. 310-13.000.

Holzinger, Ulrich: *See—*
Brunner, Henri; Schonenberger, Helmut; Schmidt, Manfred; Holzinger, Ulrich; Unger, Gerfried; and Engel, Jurgen, 4,704,464, Cl. 556-137.000.

Holzl, Robert A.; and Benander, Robert E., to Air Products and Chemicals, Inc. Composite stiff lightweight structure and method for making same. 4,716,064, 12-29-87, Cl. 428-73.000.

Holzl, Robert A.: *See—*
Benander, Robert E.; and Holzl, Robert A., 4,698,244, Cl. 427-253.000.

Holzle, Gerd: *See—*
Graf, Gregor; Holzle, Gerd; and Reinert, Gerhard, 4,648,992, Cl. 540-124.000.
Reinert, Gerhard; Holzle, Gerd; and Graf, Gregor, 4,657,554, Cl. 8-107.000.

Holzle, Roland, to Hafele KG. Guide mechanism, particularly for sliding furniture parts. 4,697,934, 10-6-87, Cl. 384-19.000.

Holzler, Georg: *See—*
Kroning, Michael; Holzler, Georg; and Heumuller, Roland, 4,640,131, Cl. 73-600.000.
Ruthrof, Klaus; Holzler, Georg; and Korner, Rudolf, 4,656,870, Cl. 73-629.000.

Holzman, James W.: *See—*
Cohn, Robert J.; Olsson, Frank C.; Holzman, James W.; and Santarelli, Paul, 4,678,214, Cl. 292-213.000.

Holzman, Richard W.: *See—*
Schunck, Richard A.; and Holzman, Richard W., 4,633,938, Cl. 165-47.000.

Holzmann, Rainer: *See—*
Giese, Peter; Holzmann, Rainer; Schwochert, Hans-Joachim; and Thomas, Alfred, 4,699,585, Cl. 425-522.000.

Holznagel, Melvin A. Portable traffic signal. 4,706,087, 11-10-87, Cl. 340-908.000.

Holzner, Gunter, to Firmenich SA. Devices for perfuming ambient air and enclosed spaces. 4,634,614, 1-6-87, Cl. 428-35.000.

Hom, Jorgen: *See—*
Edlund, Roy; and Hom, Jorgen, 4,709,932, Cl. 277-165.000.

Homa Locks, Inc.: *See—*
Stolarz, Edward, 4,658,467, Cl. 16-126.000.

Homaco, Inc.: *See—*
Hebel, Gregory F.; and Temkin, Gregg A., 4,641,754, Cl. 211-26.000.
Temkin, Gregg A., 4,675,900, Cl. 379-327.000.

Homan, Gerlof, to Survival Technology, Inc. Anti-contamination hazardous material package. 4,645,073, 2-24-87, Cl. 206-219.000.

Homann, Helmut F.: *See—*
Piper, Robert J.; and Homann, Helmut F., 4,673,950, Cl. 343-912.000.

Homann, Walter K., to Huls Aktiengesellschaft. Method for processing substituted 1,3-diols of low water solubility. 4,665,241, 5-12-87, Cl. 568-868.000.

Homann, Walter K.; and Fischer, Lothar, to Huls Aktiengesellschaft. Catalytic system and a process for preparing alpha, omega-C_4 through C_{20} alkenols. 4,695,661, 9-22-87, Cl. 568-903.000.

Hombach, Rudolf; Reiff, Helmut; and Dollhausen, Manfred, to Bayer Aktiengesellschaft. Polyisocyanate preparation dispersible in water and their use as an additive for aqueous adhesives. 4,663,377, 5-5-87, Cl. 524-196.000.

Hombach, Rudolph: *See—*
Fischer, Wolfgang; Klein, Gerhard; Hombach, Rudolph; and Kniege, Wilfried, 4,694,043, Cl. 525-127.000.

Hombak Maschinenfabrik GmbH & Co. KG: *See—*
Kroecher, Harro, 4,706,948, Cl. 269-34.000.

Hombaugh, Masanori: *See—*
Maruyama, Masanori; Takahashi, Kenji; Kudo, Koji; Hombaugh, Masanori; and Nagahara, Shusaku, 4,716,468, Cl. 358-219.000.

Hombough, Masanori: *See—*
Kodama, Takuma; Takahashi, Kenji; Ishibashi, Shizuka; Kudo, Koji; Masuda, Yukihiro; Hombough, Masanori; Miyoshi, Osamu; and Yoshiwara, Kazuhisa, 4,649,421, Cl. 358-51.000.
Masuda, Yukihiro; Ishibashi, Shizuka; Takahashi, Kenji; Kodama, Takuma; Kudo, Koji; and Hombough, Masanori, 4,647,822, Cl. 315-386.000.

Hombu, Mitsuyuki: *See—*
Ueda, Shigeta; Hombu, Mitsuyuki; Honda, Kazuo; Ueda, Akiteru; Suzuki, Katsunori; and Shima, Seiya, 4,672,520, Cl. 363-37.000.

Home Box Office, Inc.: *See—*
Heimbach, Paul A., 4,638,357, Cl. 358-121.000.

Home Crafts Corporation: *See—*
GangaRao, Hota V. S., 4,676,035, Cl. 52-125.500.

Home of Champions, S.A.: *See—*
Tomar, Julius, 4,660,830, Cl. 273-60.00B.

Home, William. Automatic electronic ignition system. 4,681,529, 7-21-87, Cl. 431-74.000.

Homebodies, Inc.: *See—*
Greenberger, Susan; and Horwich, Kate B., 4,689,831, Cl. 2-93.000.

Homeier, Ronald F., to PT Components, Inc. Dual bend conveyor. 4,645,070, 2-24-87, Cl. 198-831.000.

Homen, Manny. Weighing apparatus and method for use in weighing live fish. 4,696,360, 9-29-87, Cl. 177-262.000.

Homer, David A.: *See—*
Doerman, Eryk S.; Turner, William J.; Homer, David A.; Stewart, Andrew D. G.; and Clarke, Ian, 4,696,358, Cl. 177-145.000.

Homer, John C., and Lutz, Gilbert F., to General Signal Corporation. Vertically positioned transfer system for controlling and initiating the flow of metered amounts of solid materials. 4,668,478, 5-26-87, Cl. 422-159.000.

Homer, John F.: *See—*
Holland, George E.; Struve, Walter S.; and Homer, John F., 4,641,343, Cl. 381-48.000.

Homero Lopes & Associados/Engenharia e Comercio Ltda.: *See—*
Lopes, Homero V. D. M., 4,688,550, Cl. 126-378.000.

Homes, Helmut, to Glacier GmbH—Sollinger Hutte. Process for replacing bridge bearings. 4,692,981, 9-15-87, Cl. 29-402.080.

Homestead Products, Inc.: *See—*
Hart, Edward F.; and McDonough, William, 4,716,409, Cl. 340-825.220.

Homeyer, Bernard: *See—*
Maurer, Fritz; Homeyer, Bernard; and Stendel, Wilhelm, 4,678,7 Cl. 514-89.000.

Homeyer, Bernhard: *See—*
Anderson, John; Homeyer, Bernhard; Kuhle, Engelbert; Schempflug, Hans; Zeck, Walter M.; and Simonet, Donald E., 4,656,1 Cl. 514-84.000.
Fauss, Rudolf; Lantzsch, Reinhard; Findeisen, Kurt; Jager, Gehard; Hammann, Ingeborg; Becker, Benedikt; and Homeyer, Bernhard, 4,698,333, Cl. 514-63.000.
Ingendoh, Axel; Berschauer, Friedrich; Becker, Benedikt; Stendel, Wilhelm; Homeyer, Bernhard; Scheer, Martin; de Jong, Ann Hanssler, Gerd; and Reinecke, Paul, 4,678,797, Cl. 514-378.00
Kolbl, Heinz; Gompper, Rudolf; Behrenz, Wolfgang; Hammann, Ingeborg; Homeyer, Bernhard; and Hermann, Gunthe 4,647,581, Cl. 514-475.000.
Kruger, Bernd-Wieland; Behrenz, Wolfgang; Becker, Benedi Homeyer, Bernhard; and Stendel, Wilhelm, 4,695,563, C 514-105.000.
Maurer, Fritz; Homeyer, Bernhard; and Becker, Benedi 4,666,894, Cl. 514-86.000.
Naumann, Klaus; Braden, Rudolf; Behrenz, Wolfgang; Becke Benedikt; Homeyer, Bernhard; and Stendel, Wilhelm, 4,699,9 Cl. 514-531.000.
Riebel, Hans-Jochem; Homeyer, Bernhard; Becker, Benedikt; and Behrenz, Wolfgang, 4,665,061, Cl. 514-89.000.

Homick, Richard: *See—*
Lim, Drahoslav; Jacoby, Stephen; Homick, Richard; and Powers, Frank, 4,687,485, Cl. 623-6.000.

Homma, Hidetoshi: *See—*
Morihara, Kenji; Homma, Hidetoshi; and Sunami, Kenji, 4,689,60 Cl. 340-48.000.

Homma, Hiroshige: *See—*
Kubo, Kazuo; Isomura, Yasuo; Sakamoto, Shuichi; and Homma, Hiroshige, 4,636,516, Cl. 514-365.000.

Homma, Koichi: *See—*
Iijima, Ikuo; Homma, Koichi; Saiga, Yutaka; Matsuoka, Yuzo; and Matsumoto, Mamoru, 4,663,319, Cl. 514-212.000.
Seto, Youichi; Homma, Koichi; Komura, Fuminobu; Yamagata, Shimbu; Kubo, Yutaka; and Mizuno, Hirotaka, 4,682,300, C 364-571.000.
Seto, Youichi; Homma, Koichi; Komura, Fuminobu; and Ota, Hideo, 4,695,964, Cl. 364-518.000.

Homma, Noriyuki: *See—*
Nishioka, Yasushiro; Homma, Noriyuki; Sakuma, Noriyuki; and Mukai, Kiichiro, 4,636,833, Cl. 357-71.000.

Homma, Seiichi: *See—*
Kai, Masanori; Hisabayashi, Satoshi; Homma, Seiichi; and Igarashi, Yousuke, 4,653,008, Cl. 364-471.000.

Homma, Shirou; Izumi, Takashi; and Murakami, Sakae, to Mitsui Sekiyu Kagaku Kogyo Kabushiki Kaisha. Solvent soluble fluorine-containing polymer, coating composition containing the same and coating process thereof. 4,701,508, 10-20-87, Cl. 526-249.000.

Homma, Takahiko; and Wada, Shigetaka, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Rotary component of a rotary device for heat engines and a method of manufacturing the same. 4,692,099, 9-8-87, Cl. 416-229.00A.

Homma, Tammotsu: *See—*
Hirose, Sachio; Homma, Tammotsu; Kurihara, Takashi; Adachi, Hidenari; Sako, Yoshitaka; and Shibata, Makiko, 4,703,106, Cl. 530-307.000.

Homma, Toshihiro: *See—*
Matsuda, Kiichi; Tsuda, Toshitaka; Homma, Toshihiro; Fukuda, Hiroshi; Okazaki, Takeshi; and Maki, Shin-ichi, 4,668,987, Cl. 358-136.000.

Homma, Toshio: *See—*
Shioiri, Hisanori; Kiuchi, Mitsuhiro; Takayama, Mineo; Homma, Toshio; Nagasaka, Hiroshi; and Kaneko, Yoshikazu, 4,657,77 Cl. 427-38.000.

Homma, Yoshikatsu: *See—*
Hirai, Hitoshi; Homma, Yoshikatsu; and Inoue, Tadashi, 4,674,832 Cl. 350-96.210.

Homma, Yoshio; and Nishida, Takashi, to Hitachi, Ltd. Semiconductor device and manufacturing method thereof. 4,710,398, 12-1-87, Cl. 437-235.000.

Hommann, Edgar, to Gimelli & Co. AG. Mouth and tooth spray apparatus. 4,644,937, 2-24-87, Cl. 128-66.000.

Hommann, Edgar, to Gimelli & Co. AG. Hand-held appliance for personal hygiene. 4,655,198, 4-7-87, Cl. 128-66.000.

Hommelwerke GmbH: *See—*
Hutter, Karl; and Wagner, Jacob, 4,651,438, Cl. 33-550.000.

Hommen, Winfried; Stauble, Georg; and Wieser, Tiberius, to Knorr-Bremse AG. Electrically controlled brake for vehicles, especially rail vehicles. 4,682,823, 7-28-87, Cl. 303-22.00R.

mes, Hans-Jurgen: *See—*

Kohler, Wolfgang; Hommes, Hans-Jurgen; and Muhl, Artur, 4,664,500, Cl. 355-3.0TE.

mes, William J.; and Keegan, John J., Jr., to Du Pont de Nemours, I., and Company. System useful for controlling multiple synchro- us secondaries of a linear motor along an elongated path. 4,675,582, 23-87, Cl. 318-38.000.

mola, Jurgen: *See—*

Franz, Hans-Joachim; Hommola, Jurgen; Langensiepen, Bernd; and Eckhardt, Wolfgang, 4,665,653, Cl. 49-477.000.

onoff, Edward C.; Rodman, Clarke A.; and Rutledge, Broaddus , II, to Allied Corporation. Laminated fabrics and fiber mats and ethod for their manufacture. 4,686,136, 8-11-87, Cl. 428-286.000.

onoff, Edward C.: *See—*

Farley, Radcliffe W.; Vaughn, Edward A.; Rodman, Clarke A.; and Homonoff, Edward C., 4,663,225, Cl. 428-290.000.

s, Marinus H.: *See—*

van den Berg, Wilhemus H.; Homs, Marinus H.; and van Oorschot, Bob P. J., 4,691,572, Cl. 73-643.000.

sy, Charles A. Implantation of articulating joint prosthesis 636,214, 1-13-87, Cl. 623-16.000.

sy, Robert V.: *See—*

Starkston, Robert; Luce, Mark C.; and Homsy, Robert V., 4,647,397, Cl. 252-189.000.

N Company, The: *See—*

Kroon, Robert J.; and Schmidt, Clayton C., 4,674,806, Cl. 312-250.000.

aga, Susumu: *See—*

Nakamura, Keiichi; Honaga, Susumu; Suzuki, Mikio; and Takeuchi, Yoshiyuki, 4,676,334, Cl. 180-142.000.

aker, Charles M., Jr., to Rockwell International Corporation. Digital clock recovery circuit apparatus. 4,700,084, 10-13-87, Cl. 07-269.000.

ard, Mark R.; Holmes, Mark A.; and Jarrett, Robert D., to BioSecific Technologies, Inc. Therapeutic device. 4,685,900, 8-11-87, Cl. 04-5.000.

czarenko, Art, to Progressive Machine Co., Inc. Traversing mechaism control. 4,681,275, 7-21-87, Cl. 242-67.10R.

nda: *See—*

Hara, Kunitaka; and Matsuo, Yoshihiro, 4,673,032, Cl. 165-44.000.

Shimizu, Yasuo, 4,703,821, Cl. 180-79.100.

Yoshida, Takao, 4,705,285, Cl. 280-279.000.

nda, Akio: *See—*

Nakamura, Kenzi; Honda, Akio; Inukai, Kazuo; and Ito, Yoshito, 4,636,782, Cl. 340-705.000.

nda, Chiba; Ueda, Koichi; and Suzuki, Akio, to Konishiroku Photo ndustry Co., Ltd. Silver halide photographic emulsion and a process or the preparation thereof. 4,686,178, 8-11-87, Cl. 430-569.000.

nda, Chika; Suzuki, Akio; Machida, Katsutoshi; and Iwata, Masatohi, to Konishiroku Photo Industry Co., Ltd. Silver halide X-ray photosensitive material. 4,639,417, 1-27-87, Cl. 430-567.000.

nda, Chika: *See—*

Metoki, Iku; Suzuki, Akio; Yoshida, Eiji; Sato, Kiyoshi; Hosaka, Masumi; and Honda, Chika, 4,689,292, Cl. 430-567.000.

nda, Eiichi: *See—*

Fujiwara, Tatsuro; Ohta, Kazuyo; Honda, Eiichi; Hirano, Takao; and Sakakibara, Hideo, 4,661,588, Cl. 536-7.100.

nda Giken Kogyo Kabushiki Kaisha: *See—*

Abe, Masao; and Miura, Nobuo, 4,679,540, Cl. 123-602.000.

Abe, Yoshiharu; Wazaki, Yoshio; and Oono, Tetsuya, 4,709,334, Cl. 364-431.050.

Amano, Katsuhisa; Arai, Yasuhisa; Kushida, Noritaka; and Asakura, Masahiko, 4,665,883, Cl. 123-571.000.

Anno, Nobuo, 4,656,983, Cl. 123-196.00R.

Anno, Nobuo; Iwai, Itsuo; and Kamezaki, Takashi, 4,674,996, Cl. 474-10.000.

Anno, Nobuo; and Arai, Takeo, 4,681,068, Cl. 123-41.860.

Anno, Nobuo; and Arai, Takeo, 4,686,943, Cl. 123-41.740.

Anno, Nobuo; and Arai, Takeo, 4,702,204, Cl. 123-196.0AB.

Anno, Nobuo; and Arai, Takeo, 4,712,517, Cl. 123-41.740.

Aoki, Takashi; Miyake, Junichi; and Nishikawa, Masao, 4,651,593, Cl. 74-731.000.

Aoki, Takashi; Sakurai, Yoshimi; and Nishikawa, Masao, 4,662,493, Cl. 192-0.052.

Aoki, Takashi; Sato, Yoichi; and Fukuda, Yukihiro, 4,686,872, Cl. 74-869.000.

Aoki, Takashi; Fukuda, Yukihiro; and Nishikawa, Masao, 4,696,383, Cl. 192-70.120.

Arai, Katsuyoshi; and Nakamura, Hisao, 4,699,099, Cl. 123-192.00R.

Arai, Shokichi; and Fujii, Tadayoshi, 4,662,467, Cl. 180-210.000.

Arai, Takeo; Anno, Nobuo; Kinoshita, Yusuke; and Kusakabe, Yukio, 4,683,844, Cl. 123-41.740.

Arakawa, Tetsuo; Kato, Masaaki; and Watanabe, Kazunori, 4,660,515, Cl. 123-90.270.

Asai, Masahiro; Mizushima, Toshio; Kawai, Toshiro; Akutsu, Shigemitsu; and Uozumi, Yoshiaki, 4,706,617, Cl. 123-65.0PE.

Asakura, Masahiko; Kawanabe, Tomohiko; Ueda, Masahiro; Kubota, Shinichi; Kushida, Noritaka; and Matsumoto, Yukihiro, 4,694,803, Cl. 123-440.000.

Asakura, Masahiko; Kawanabe, Tomohiko; Kushida, Noritaka; and Hasebe, Hiroshi, 4,706,637, Cl. 123-589.000.

Asakura, Toshimitsu; and Tagami, Tomoyuki, 4,694,924, Cl. 180-68.300.

Asano, Akira; and Kato, Kentaro, 4,671,223, Cl. 123-90.310.

Ban, Keisuke, 4,643,078, Cl. 92-212.000.

Ban, Keisuke; and Daimaru, Akimasa, 4,677,901, Cl. 92-213.000.

Enoki, Shigenaga; Yoshio, Kazuya; and Yamaguchi, Nobuo, 4,696,364, Cl. 180-228.000.

Enoki, Shigenaga, 4,699,243, Cl. 181-207.000.

Enokida, Susumu; and Ono, Jun, 4,707,020, Cl. 296-191.000.

Enomoto, Masayuki; Ishibashi, Ichiro; Yamashita, Sachihiro; Ichinose, Kiyohiro; and Kano, Toshiharu, 4,667,386, Cl. 29-157.00R.

Fujii, Shigeru; and Shimizu, Motohiro, 4,663,582, Cl. 322-63.000.

Fujii, Takayuki; and Baba, Masayoshi, 4,648,650, Cl. 296-203.000.

Fujisawa, Yoichi; and Hasumi, Hiroaki, 4,662,470, Cl. 180-219.000.

Fujita, Haruyasu; Ogawa, Masao; and Honma, Kenji, 4,650,213, Cl. 280-772.000.

Fujita, Haruyasu; Honma, Kenji; and Ogawa, Masao, 4,659,106, Cl. 280-772.000.

Fujita, Haruyasu; Ogawa, Masao; and Suzuki, Takahisa, 4,685,690, Cl. 280-112.00A.

Fujita, Yoshihide; and Morita, Hirofumi, 4,652,718, Cl. 219-82.000.

Fujita, Yoshihide; and Morita, Hirofumi, 4,652,719, Cl. 219-82.000.

Fukuda, Yutaka; Minagawa, Koji; Nabeshima, Hiroichi; Muneki, Koihiro; Asano, Yoshikatsu; Aoki, Kazuo; and Ishizaka, Yutaka, 4,679,935, Cl. 356-121.000.

Fukumoto, Tsunenori, 4,646,701, Cl. 123-519.000.

Fukuo, Koichi; and Sasaki, Shinji, 4,656,991, Cl. 123-572.000.

Fukatomi, Yohji; Kano, Hidekazu; and Kato, Akira, 4,703,733, Cl. 123-421.000.

Funabashi, Katsunori; Nakashima, Tai; Yamada, Toshiyuki; and Morishima, Kazuo, 4,690,237, Cl. 180-219.000.

Furukawa, Yoshimi; and Sano, Shoichi, 4,647,057, Cl. 280-91.000.

Furukawa, Yoshimi; and Sano, Shoichi, 4,647,058, Cl. 280-91.000.

Furumoto, Mitsumasa; Yamaguchi, Kouji; Kawahara, Eiichiro; and Ikejiri, Kenichi, 4,646,520, Cl. 60-469.000.

Goto, Hiroshi; Kikuchi, Akira; Hibino, Yoshitaka; Totsune, Atsushi; Kurihara, Norimitsu; Hosaka, Takefumi; and Kijima, Takeshi, 4,661,760, Cl. 322-27.000.

Gotoh, Hiroshi; and Hashimoto, Kenshiro, 4,672,297, Cl. 322-28.000.

Hara, Kunitaka, 4,685,530, Cl. 180-219.000.

Hasebe, Hiroshi; Asakura, Masahiko; Sakaino, Michio; and Miyashita, Yukio, 4,693,220, Cl. 123-339.000.

Hasegawa, Shumpei, 4,688,532, Cl. 123-302.000.

Hashimoto, Hitoshi; Tamaki, Yoshihiro; Mikami, Kazufumi; and Shimogai, Kiyoshi, 4,701,081, Cl. 408-1.00R.

Hashimoto, Kenshiro; and Okada, Yasushi, 4,698,209, Cl. 422-88.000.

Hashimoto, Kenshiro; and Okada, Yasushi, 4,702,816, Cl. 204-406.000.

Hata, Koichi, 4,708,363, Cl. 280-771.000.

Hatakeyama, Sakichi; and Takahashi, Hiroshi, 4,683,766, Cl. 74-333.000.

Hatakeyama, Toshio; and Yoshio, Toshihiko, 4,637,960, Cl. 428-469.000.

Hattori, Kenji; and Fujii, Etsuo, 4,706,500, Cl. 73-728.000.

Hattori, Shigeru, 4,696,366, Cl. 180-296.000.

Hattori, Torao; Nishimura, Minoru; and Goto, Masaki, 4,642,077, Cl. 474-201.000.

Hattori, Torao, 4,674,359, Cl. 74-745.000.

Hattori, Torao; Takagi, Yasushi; Tange, Akira; Umetsu, Chiharu; Kudo, Osamu; Kurimoto, Kiyoshi; and Kitamura, Rou, 4,698,050, Cl. 474-242.000.

Hayashi, Tsutomu; Kawaguchi, Takeshi; and Tsuchida, Tetsuo, 4,660,683, Cl. 188-18.00A.

Hayashi, Tsutomu; and Ohzono, Kouhei, 4,669,588, Cl. 192-3.570.

Hayashi, Tsutomu; Kawaguchi, Takeshi; and Tsuchida, Tetsuo, 4,673,221, Cl. 303-6.00R.

Hayashi, Tsutomu; Kawaguchi, Takeshi; and Tsuchida, Tetsuo, 4,694,938, Cl. 188-181.00A.

Hayashi, Tsutomu; Kawaguchi, Takeshi; and Tsuchida, Tetsuo, 4,697,825, Cl. 280-703.000.

Hayashi, Tsutomu; Kawaguchi, Takeshi; and Tsuchida, Tetsuo, 4,702,339, Cl. 180-219.000.

Hiasa, Toshikazu; and Uchida, Hiroyuki, 4,672,924, Cl. 123-65.0PE.

Hibino, Yoshitaka; Fukuzawa, Takeshi; Sato, Hiromitsu; and Asakura, Masahiko, 4,705,011, Cl. 123-589.000.

Hibino, Yoshitaka; and Kogure, Hiroshi, 4,712,452, Cl. 74-866.000.

Hibino, Yoshitaka; and Fukuzawa, Takeshi, 4,715,349, Cl. 123-585.000.

Hidaka, Yoshiaki; Araki, Junichi; and Tamura, Masayuki, 4,644,911, Cl. 123-52.00M.

Higuchi, Kazuo; Okuhara, Hisakazu; and Sasaki, Kiichi, 4,635,963, Cl. 280-801.000.

Higuchi, Kazuo; Sugama, Takayuki; Okuhara, Hisakazu; and Sasaki, Kiichi, 4,682,789, Cl. 280-801.000.

Hisaminato, Takahiro; and Watanabe, Haruo, 4,659,139, Cl. 296-210.000.

Honda, Kazuo; Horii, Yoshiaki; Hiramatsu, Kinuo; Nakamoto, Shuhei; and Kudo, Takashi, 4,678,054, Cl. 180-225.000.

Honda, Shoichi, 4,643,704, Cl. 474-245.000.

Honda, Shoichi, 4,666,421, Cl. 474-242.000.

Honda, Shoichi, 4,668,210, Cl. 474-242.000.

Horiuchi, Tadanori; and Watanabe, Masaki, 4,664,208, Cl. 180-23.000.

Hoshi, Norio, 4,655,310, Cl. 180-219.000.

Hoshino, Teruaki; and Kamiji, Koichi, 4,674,814, Cl. 439-586.000.

Ichida, Katsumi; Miyano, Hideyo; and Suzuki, Shigeru, 4,669,428, Cl. 123-52.0MB.

Ichihara, Eiichi; and Iwai, Itsuo, 4,709,667, Cl. 123-90.340.
Ida, Jinsei; Hagimoto, Yoshio; and Ishikawa, Makoto, 4,697,965, Cl. 408-56.000.
Igarashi, Susumu; and Ito, Norihiko, 4,650,025, Cl. 180-227.000.
Imaizumi, Masahiro; Masumura, Masanori; Ishikawa, Takeshi; and Hosoya, Eiji, 4,635,506, Cl. 74-745.000.
Imaizumi, Masahiro; Akai, Hiroshi; Irie, Takafumi; and Inagaki, Takashi, 4,646,865, Cl. 180-73.100.
Imaizumi, Masahiro; Masumura, Masanori; Ishikawa, Takeshi; and Hosoya, Eiji, 4,655,309, Cl. 180-215.000.
Imoto, Kosuke; and Koyama, Kazutoshi, 4,702,222, Cl. 123-643.000.
Inagaki, Takashi; Shimada, Toshio; and Yoshimoto, Tokuji, 4,685,428, Cl. 123-52.00A.
Inagaki, Takashi; and Nakano, Shinichi, 4,686,945, Cl. 123-90.220.
Inoh, Isamu, 4,707,007, Cl. 292-341.160.
Inomata, Fumio; and Iwadate, Tooru, 4,687,069, Cl. 180-68.200.
Irimajiri, Shoichiro; and Kawaguchi, Takeshi, 4,703,824, Cl. 180-215.000.
Ishii, Norihisa; and Ogawa, Sumitaka, 4,669,438, Cl. 123-418.000.
Ishizaki, Hiroshi; and Hayashi, Hiroki, 4,668,003, Cl. 296-63.000.
Ito, Toshifumi, 4,648,359, Cl. 123-90.310.
Ito, Toshifumi, 4,668,116, Cl. 403-258.000.
Itoh, Toshifumi, 4,671,216, Cl. 123-52.0MV.
Iwai, Kazuhiro, 4,637,486, Cl. 180-225.000.
Iwata, Takahiro, 4,700,674, Cl. 123-327.000.
Kadono, Kohji; and Tsunoda, Minoru, 4,691,800, Cl. 180-219.000.
Kajikawa, Tsuneo, 4,653,296, Cl. 70-185.000.
Kami, Yozo; and Kojima, Mitsu, 4,662,237, Cl. 74-512.000.
Kamiji, Koichi; and Ohya, Toshikazu, 4,695,075, Cl. 280-735.000.
Kaneda, Hiroshi; Mitsumori, Masahito; and Hamabe, Kenji, 4,664,609, Cl. 418-137.000.
Kano, Hidekazu; Shinchi, Takashi; and Hosoi, Shuichi, 4,711,217, Cl. 123-491.000.
Kashio, Yoshiaki, 4,634,486, Cl. 156-253.000.
Kato, Akira; Otobe, Yutaka; and Kimura, Shigehiro, 4,696,272, Cl. 123-339.000.
Kato, Akira; Igarashi, Hisashi; and Umeda, Tadashi, 4,702,211, Cl. 123-421.000.
Kawade, Tateo, 4,648,575, Cl. 248-371.000.
Kawaguchi, Takeshi; Suzuki, Tsuguya; and Shibata, Katsuhiro, 4,641,731, Cl. 188-218.0XL.
Kawaguchi, Takeshi; and Kawano, Akio, 4,712,638, Cl. 180-219.000.
Kawamoto, Yoshimich; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, 4,687,216, Cl. 280-91.000.
Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, 4,695,068, Cl. 280-91.000.
Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, 4,697,816, Cl. 280-91.000.
Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, 4,703,822, Cl. 180-140.000.
Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, 4,703,945, Cl. 280-91.000.
Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, 4,705,135, Cl. 180-236.000.
Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, 4,706,976, Cl. 280-91.000.
Kawanabe, Tomohiko; Shiina, Takanori; Asakura, Masahiko; and Kimura, Katsuhiko, 4,649,882, Cl. 123-438.000.
Kawanabe, Tomohiko; Asakura, Masahiko; Muroya, Minoru; Kimura, Katsuhiko; Kushida, Noritaka; and Hasebe, Hiroshi, 4,665,874, Cl. 123-440.000.
Kawanabe, Tomohiko; Asakura, Masahiko; Shiina, Takanori; Matsumoto, Yukihiro; and Muroya, Minoru, 4,690,121, Cl. 123-589.000.
Kawanabe, Tomohiko; Asakura, Masahiko; Kushida, Noritaka; Shiina, Takanori; and Muroya, Minoru, 4,705,012, Cl. 123-589.000.
Kawanabe, Tomohiko; Kushida, Noritaka; Asakura, Masahiko; and Seki, Yasunari, 4,715,350, Cl. 123-587.000.
Kawanabe, Tomohiko; Asakura, Masahiko; Kushida, Noritaka; and Kimura, Katsuhiko, 4,715,352, Cl. 123-589.000.
Kawano, Akio, 4,700,799, Cl. 180-219.000.
Kawano, Akio, 4,702,527, Cl. 301-9.0DN.
Kawasaki, Katsuyoshi, 4,697,842, Cl. 296-78.100.
Kawasaki, Kazuhiro; and Muranaka, Akio, 4,700,411, Cl. 2-425.000.
Kazuyuki, Ishii; Yoshio, Ebe; and Shuji, Fujieda, 4,643,470, Cl. 292-216.000.
Kikuchi, Uhee; Nozaki, Hiroyoshi; Fukuda, Masao; and Satake, Toshihiko, 4,698,005, Cl. 425-163.000.
Kikuchi, Uhee; and Takeo, Tadashi, 4,714,044, Cl. 118-314.000.
Kimura, Shigehiro; Ono, Takashi; and Narisawa, Nobuyuki, 4,690,123, Cl. 123-612.000.
Kinugasa, Toshiyuki; Furuya, Tamio; Ishige, Yoshiki; Tsuchimoto, Yuichi; and Takahashi, Shoji, 4,714,424, Cl. 425-388.000.
Kishi, Toshiaki; and Kohama, Mitsuyoshi, 4,678,223, Cl. 296-78.100.
Kitagawa, Tadao; Kosuge, Yutaka; and Noda, Yoichiro, 4,639,713, Cl. 340-63.000.
Kiuchi, Takeo; and Iwata, Takahiro, 4,676,211, Cl. 123-339.000.
Kobayashi, Hideo; and Tomobe, Norio, 4,648,374, Cl. 123-587.000.
Koga, Noritaka; and Yamagiwa, Toshio, 4,699,233, Cl. 180-219.000.
Kohyama, Mikihiro, 4,697,664, Cl. 180-226.000.
Koike, Akihiko; and Umeda, Tadashi, 4,635,606, Cl. 123-463.000.
Koike, Yuzuru; Koike, Akihiko; and Ueno, Masayuki, 4,64
Cl. 123-339.000.
Koishi, Masaru; Shinohara, Haruo; and Takayanagi,
4,679,860, Cl. 301-9.0DN.
Komuro, Katsusuke, 4,679,647, Cl. 180-219.000.
Komuro, Katsusuke, 4,687,072, Cl. 180-219.000.
Kouyama, Mikihiro; and Yagasaki, Akio, 4,671,374,
180-219.000.
Kouyama, Mikihiro, 4,685,694, Cl. 280-270.000.
Kubo, Kanji, 4,650,362, Cl. 403-134.000.
Kubo, Kanji, 4,690,425, Cl. 280-668.000.
Kubo, Kanji; Asanuma, Nobuyoshi; Saito, Kazuo; and Yama
Yasuhiko, 4,690,426, Cl. 280-690.000.
Kumasaka, Toru; Kamiji, Koichi; and Ohya, Toshikazu, 4,67
Cl. 340-52.00R.
Kumasaka, Toru; Ohya, Toshikazu; and Kamiji, Koichi, 4,70
Cl. 307-9.000.
Kumata, Masataka; Emori, Kazuo; Mitsumori, Masahito;
nabe, Hideo; and Kobayashi, Kazuaki, 4,664,644, Cl. 464-18
Kurata, Noboru, 4,704,920, Cl. 74-665.0GC.
Kurihara, Norimitsu; Ozaki, Masaaki; Goto, Hiroshi; and As
Masahiko, 4,681,070, Cl. 123-179.00H.
Kutsukake, Mitsuhiro; Murata, Takahiko; Saito, Gunji; K
suzaki, Takeshi; Uehara, Kuniaki; Kato, Toshinobu; H
Takeo; and Hayashida, Morimasa, 4,711,077, Cl. 56-320.20
Maezono, Masakazu; Shimizu, Takeyuki; and Ishikawa, K
4,645,051, Cl. 192-0.055.
Maruya, Takeshi; and Yamazaki, Katuyuki, 4,670,022
44-68.000.
Masuda, Masamichi; Sawai, Shinichi; and Ishii, Naoto, 4,65
Cl. 428-474.400.
Masuda, Tatsuo; Enokimoto, Akito; and Ohtsuka, Kan
4,641,854, Cl. 280-701.000.
Matsuda, Minoru; and Muraishi, Tadashi, 4,645,049, Cl. 192-3
Matsuda, Minoru; and Shinozaki, Takashi, 4,666,015
180-233.000.
Matsuda, Shohei; and Iwakawa, Yoshihiro, 4,690,464
303-115.000.
Matsumoto, Tooru; Ishikawa, Satoshi; Nakamura, Eiji; I
Tomio; and Okada, Tomoyuki, 4,657,963, Cl. 524-406.000.
Matsuura, Kazuo; Yoshioka, Hiroshi; and Koga, K
4,705,263, Cl. 267-33.000.
Midorikawa, Masashi; and Inoh, Isamu, 4,712,891, Cl. 350-60
Mikami, Tetsuo; and Saiki, Terunari, 4,703,825, Cl. 180-229
Mishima, Yoshibumi, 4,696,224, Cl. 92-187.000.
Mitobe, Keiichi; and Kubo, Kanji, 4,696,488, Cl. 280-690.00
Miura, Nabuo; Ishii, Norihisa; and Ogawa, Sumitaka, 4,671,2
123-418.000.
Miura, Nobuo; Ishii, Norihisa; and Ogawa, Sumitaka, 4,645,1
123-418.000.
Miyakawa, Yoshitaka, 4,644,116, Cl. 200-83.00R.
Miyake, Junichi, 4,653,622, Cl. 192-0.052.
Miyakoshi, Shinichi, 4,690,235, Cl. 180-210.000.
Miyamaru, Yukio; Kawada, Shigeo; Hatanaka, Kaoru; and Sh
Yasuo, 4,644,318, Cl. 340-73.000.
Miyamaru, Yukio; Hatanaka, Kaoru; Kawada, Shigeo; and Sh
Yasuo, 4,660,020, Cl. 340-134.000.
Miyano, Hideyo; Kobayashi, Atsushi; Suzuki, Shigeru; and I
Katsumi, 4,664,076, Cl. 123-52.0MB.
Miyashita, Norio; and Nemoto, Akira, 4,641,884, Cl. 297-3
Miyata, Takahide; Iwashita, Kanau; Taniuchi, Kazuman;
moto, Hitoshi; and Nakamichi, Katsuhiro, 4,672,925, C
65.0PE.
Miyata, Toshimi; Takahashi, Toshiki; and Matsumoto,
4,648,222, Cl. 52-208.000.
Mizusawa, Mitutoyo; and Horiuchi, Makoto, 4,642,99
60-554.000.
Mogi, Tomonori; and Kashio, Yoshiaki, 4,712,637, Cl. 180-2
Moriki, Shinichi; and Okui, Kazuyuki, 4,634,167, Cl. 296-31
Morioka, Koji; Tojo, Hideaki; Kimura, Kazuo; and Yo
Susumu, 4,664,061, Cl. 118-663.000.
Morioka, Minoru; Kishi, Toshiaki; and Yoshioka, Tos
4,638,881, Cl.,180-219.000.
Morishima, Kazuo, 4,686,656, Cl. 362-72.000.
Morita, Isamu; Arai, Katsuyoshi; and Koike, Tetsuya, 4,651,9
267-140.100.
Moriya, Takashi, 4,662,320, Cl. 123-41.440.
Moriya, Takashi, 4,662,323, Cl. 123-90.230.
Motodate, Shoji; Morino, Yuichi; and Kurata, Norihiro, 4,7
Cl. 200-61.850.
Mukai, Masato; and Komatsu, Koichi, 4,693,139, Cl. 74-579
Muto, Osamu; Masumura, Masanori; and Hori, Yoshiaki, 4,7
Cl. 74-337.500.
Nagahiro, Kenichi; Ishida, Atsushi; and Kajiwara, Shig
4,656,977, Cl. 123-90.160.
Nakajima, Toyohei; and Mieno, Toshiyuki, 4,683,04
204-428.000.
Nakajima, Toyohei; and Mieno, Toshiyuki, 4,689,13
204-428.000.
Nakamura, Michio; Tsunoda, Minoru; Murakami, Hiroshi;
Yuuji; Matsuhashi, Noriyasu; and Fukuchi, Kiyoshi, 4,6
Cl. 280-5.00A.
Nakamura, Yukinobu, 4,660,037, Cl. 340-990.000.
Nakayama, Hajime; Aoki, Osamu; Nishijima, Shigetoshi; H
Haruo; Sugino, Takuya; and Takagi, Shuichi, 4,672,9
123-590.000.

Nakayama, Hitoshi, 4,683,777, Cl. 74-850.000.
Nebu, Hideaki; Komuro, Katsusuke; and Yamada, Toshiyuki, 4,699,232, Cl. 180-219.000.
Nishida, Hisato; and Kondo, Tadami, 4,674,347, Cl. 74-359.000.
Nishikawa, Masao; Sakai, Shinzo; and Miyake, Junichi, 4,633,737, Cl. 74-866.000.
Nishikawa, Masao; Sakai, Shinzo; and Sakurai, Yoshimi, 4,637,278, Cl. 74-866.000.
Nishikawa, Masao; Aoki, Takashi; Sato, Yoichi; and Yoshizawa, Hiroshi, 4,643,049, Cl. 74-868.000.
Nishikawa, Masao; Aoki, Takashi; and Sato, Yoichi, 4,650,047, Cl. 192-3.310.
Nishikawa, Masao; Yamaguchi, Kouji; Sakurai, Yoshimi; and Aoki, Takashi, 4,655,330, Cl. 192-3.300.
Nishikawa, Masao; Miyake, Junichi; and Sakurai, Yoshimi, 4,658,943, Cl. 192-0.073.
Nishikawa, Masao; Aoki, Takashi; and Sato, Yoichi, 4,660,442, Cl. 74-869.000.
Nishikawa, Masao; Sakurai, Yoshimi; and Aoki, Takashi, 4,660,690, Cl. 192-3.310.
Nishikawa, Masao; and Aoki, Takashi, 4,680,928, Cl. 60-329.000.
Nishikawa, Masao; Aoki, Takashi; Sato, Yoichi; and Fukuda, Yukihiro, 4,688,530, Cl. 123-198.00R.
Nishikawa, Masao; and Sakurai, Yoshimi, 4,691,596, Cl. 74-869.000.
Nishikawa, Masao; Sakurai, Yoshimi; Aoki, Takashi; and Sato, Yoichi, 4,693,347, Cl. 192-3.300.
Nishikawa, Masao; Miyake, Junichi; Sakurai, Yoshimi; and Fukuda, Yukihiro, 4,700,819, Cl. 192-3.620.
Nishikawa, Masao; Aoki, Takashi; and Sakurai, Yoshimi, 4,706,523, Cl. 74-869.000.
Nishikawa, Masayasu; and Kimura, Kenji, 4,643,157, Cl. 123-568.000.
Nishimura, Sadanori, 4,638,897, Cl. 192-3.300.
Nishimura, Sadanori; and Sekine, Noboru, 4,640,393, Cl. 192-0.052.
Nishimura, Sadanori, 4,640,396, Cl. 192-331.000.
Nishimura, Sadanori, 4,646,886, Cl. 192-3.280.
Nishimura, Sadanori, 4,674,358, Cl. 74-745.000.
Nishimura, Sadanori; and Sekine, Noboru, 4,697,475, Cl. 74-866.000.
Niwa, Toshiaki, 4,685,724, Cl. 296-216.000.
Niwa, Toshiaki, 4,688,848, Cl. 296-216.000.
Niwa, Toshiaki, 4,690,452, Cl. 296-216.000.
Niwa, Toshiaki, 4,690,453, Cl. 296-216.000.
Noguchi, Kunio; Totsune, Atsushi; Kajita, Koji; and Hosaka, Takefumi, 4,681,078, Cl. 123-490.000.
Ochiai, Hideo; Shigihara, Akira; and Ohyama, Takashi, 4,671,782, Cl. 474-93.000.
Odo, Satoshi; Iida, Tetsuo; Abe, Atsushi; and Tsuchida, Makoto, 4,702,201, Cl. 123-2.000.
Ogano, Takeo; Komatsuzaki, Takeshi; Shigenari, Ryoichi; and Uesugi, Naomoto, 4,694,942, Cl. 192-13.00A
Ogura, Masami, 4,674,612, Cl. 192-48.920.
Ohishi, Toshio; and Kurotobi, Yohji, 4,640,698, Cl. 55-502.000.
Ohkawara, Eiji; and Ito, Shigeru, 4,663,695, Cl. 361-405.000.
Ohkubo, Tsuyoshi, 4,641,880, Cl. 296-154.000.
Ohkuma, Kuniaki; Sakuma, Kazuyoshi; Miyao, Hisao; Yoshimura, Shinichi; Koizumi, Hideharu; and Miwa, Yoshitake, 4,688,978, Cl. 414-224.000.
Ohkuma, Kuniaki; Nakagawa, Reiji; Miyao, Hisao; Yoshimura, Shinichi; Suzuki, Toshio; Hayashi, Toyoaki; Arakawa, Masayasu, and Koizumi, Hideharu, 4,714,397, Cl. 414-222.000.
Ohmori, Taiji, 4,657,280, Cl. 280-707.000.
Ohno, Hiromitsu; Noritake, Yutaka; Owari, Kimimasa; and Fukuda, Masuo, 4,656,830, Cl. 60-276.000.
Ohtaka, Shoichi; Miyano, Hideyo; Nuiya, Yoshio; and Kondo, Yukio, 4,667,647, Cl. 123-573.000.
Ohtaki, Keizaburo; and Niikawa, Ryo, 4,646,915, Cl. 198-345.000.
Ohzono, Kohei; Saito, Mitsuru; Hayashi, Kiyotaka; and Fujita, Taiji, 4,673,379, Cl. 474-28.000.
Ohzono, Kohei; Hayashi, Kiyotaka; Saito, Mitsuru; Kato, Masaie; and Yoshida, Yoshihiro, 4,679,677, Cl. 192-85.0AA.
Oike, Ikuo; and Hiasa, Toshikazu, 4,671,375, Cl. 180-227.000.
Oka, Yosio, 4,693,333, Cl. 180-233.000.
Okada, Yasushi, 4,660,161, Cl. 364-571.000.
Okubo, Kiyokazu; and Sakuma, Shunji, 4,646,584, Cl. 74-475.000.
Okubo, Kiyokazu, 4,682,516, Cl. 74-701.000.
Okuyama, Takahiro; Toki, Susumu; and Tanabe, Keiji, 4,658,770, Cl. 123-90.410.
Onda, Takanori; and Kambe, Hirofumi, 4,708,231, Cl. 192-103.00F.
Ooka, Yuzo, 4,650,055, Cl. 192-85.0CA.
Ookubo, Takeshi; Shiraishi, Motoatsu; Namiki, Akira; and Tazou, Ken, 4,688,668, Cl. 198-621.000.
Ooyama, Kazuo; and Nakano, Yasuhiko, 4,671,219, Cl. 123-65.00A.
Ooyama, Kazuo; Ooki, Kenji; and Mizushima, Toshio, 4,711,201, Cl. 123-73.00A.
Otobe, Yutaka; and Kishi, Noriyuki, 4,636,957, Cl. 364-431.070.
Otobe, Yutaka, 4,638,658, Cl. 73-117.300.
Otobe, Yutaka; Kiuchi, Takeo; and Tomozawa, Kikuo, 4,639,870, Cl. 364-431.050.
Otobe, Yutaka; and Iwata, Takahiro, 4,649,878, Cl. 123-339.000.
Otobe, Yutaka, 4,665,882, Cl. 123-571.000.
Otobe, Yutaka, 4,688,533, Cl. 123-337.000.
Otobe, Yutaka; Suzuki, Yoshio; Kimura, Shigehiro; and Ohsawa, Naoki, 4,696,273, Cl. 123-417.000.
Otobe, Yutaka; Niikura, Masakatsu; and Wazaki, Yoshio, 4,697,421, Cl. 60-602.000.
Otobe, Yutaka; Kato, Akira; and Chikamatsu, Masataka, 4,700,675, Cl. 123-339.000.
Otobe, Yutaka; Kato, Akira; Hosoda, Fumio; and Takagi, Akinobu, 4,700,679, Cl. 123-327.000.
Otsuka, Nobuyuki; Kasuya, Atsuo; Nakayama, Yusho; Kumashiro, Masayuki; Furuya, Tamio; and Kaiho, Shigeo, 4,689,979, Cl. 72-57.000.
Ozawa, Motoo, 4,640,341, Cl. 165-41.000.
Sadanori, Nishimura; and Satoru, Kudo, 4,660,707, Cl. 192-53.00F.
Saito, Akito, 4,676,332, Cl. 180-89.200.
Saito, Gunji, 4,640,366, Cl. 172-42.000.
Saito, Kaoru; Noji, Akio; Kakuta, Yonehiro; and Takigawa, Koichi, 4,700,479, Cl. 33-366.000.
Saito, Naoyuki; and Ozawa, Motoo, 4,709,774, Cl. 180-229.000.
Sakai, Shino; and Nishikawa, Masao, 4,709,792, Cl. 192-0.044.
Sano, Shoichi; and Furukawa, Yoshimi, 4,669,744, Cl. 280-91.000.
Saruhashi, Kazuo; Ara, Masato; Suzuki, Takanori; Saito, Gunji; and Kojima, Atsushi, 4,679,382, Cl. 56-10.100.
Sasaki, Kiichi; and Takashi, Iimuro, 4,638,534, Cl. 24-683.000.
Sasaki, Kiichi; Tabata, Hiroshi; Okuhara, Hisakazu; and Higuchi, Kazuo, 4,643,449, Cl. 280-808.000.
Sasaki, Kiichi; Saruwatari, Hidetoshi; Higuchi, Kazuo; Okuhara, Hisakazu; and Tabata, Hiroshi, 4,650,215, Cl. 280-808.000.
Sasaki, Kiichi; Tabata, Hiroshi; Okuhara, Hisakazu; and Higuchi, Kazuo, 4,697,827, Cl. 280-808.000.
Sasao, Isamu; and Takaoka, Yoshiyasu, 4,651,926, Cl. 239-585.000.
Sasao, Isamu; and Takaoka, Yoshiyasu, 4,687,142, Cl. 239-533.300.
Sasao, Isamu; and Takaoka, Yoshiyasu, 4,688,312, Cl. 29-157.10R.
Sato, Makoto; and Matsuda, Shohei, 4,641,893, Cl. 303-113.000.
Sato, Makoto, 4,668,022, Cl. 303-100.000.
Sekiguchi, Norio, 4,651,704, Cl. 123-572.000.
Sekiya, Yoshiyuki; Mizumura, Sakae; and Kihara, Teruo, 4,703,726, Cl. 123-196.0AB.
Setoguti, Syohati; Nakatake, Yoshiteru; Uehara, Mitsuru; and Kudou, Masayuki, 4,692,835, Cl. 361-104.000.
Shibuya, Masanori, 4,666,018, Cl. 180-213.000.
Shiiba, Yoshio; Koshigaya, Akira; and Kimura, Kouichi, 4,643,630, Cl. 414-589.000.
Shiina, Haruo, 4,711,823, Cl. 428-547.000.
Shimamura, Haruo; Kobayashi, Hideo; and Asakura, Masahiko, 4,683,860, Cl. 123-492.000.
Shimizu, Keiichi; Kikuchi, Sanae; and Nakano, Hitoshi, 4,709,931, Cl. 277-153.000.
Shimizu, Yasuo, 4,639,651, Cl. 318-432.000.
Shimizu, Yasuo, 4,644,824, Cl. 74-781.00R.
Shimizu, Yasuo; and Kawai, Toshitake, 4,651,840, Cl. 180-79.100.
Shimizu, Yasuo, 4,656,409, Cl. 318-689.000.
Shimizu, Yasuo, 4,657,103, Cl. 180-142.000.
Shimizu, Yasuo, 4,660,669, Cl. 180-79.100.
Shimizu, Yasuo, 4,671,371, Cl. 180-79.100.
Shimizu, Yasuo, 4,671,372, Cl. 180-79.100.
Shimizu, Yasuo, 4,681,181, Cl. 180-79.100.
Shimizu, Yasuo, 4,686,433, Cl. 318-50.000.
Shimizu, Yasuo; and Ogura, Masami, 4,687,085, Cl. 192-89.00W.
Shimizu, Yasuo, 4,687,976, Cl. 318-432.000.
Shimizu, Yasuo, 4,688,655, Cl. 180-79.100.
Shimizu, Yasuo, 4,715,461, Cl. 180-79.100.
Shimizu, Yasuo, 4,715,463, Cl. 180-79.100.
Shinokawa, Masahide; Katoh, Yukio; Furuichi, Noriyasu; Miyazawa, Takeshi; and Ogano, Takeo, 4,676,350, Cl. 192-3.620.
Shinozaki, Takashi; and Ishikawa, Satoshi, 4,648,474, Cl. 180-219.000.
Shinozaki, Takashi; and Ishikawa, Satoshi, 4,673,052, Cl. 180-219.000.
Shinozaki, Takashi; and Ishikawa, Satoshi, 4,690,236, Cl. 180-219.000.
Shinozaki, Takashi; and Kawaguchi, Takeshi, 4,699,234, Cl. 180-233.000.
Shinozaki, Takashi; and Kawaguchi, Takeshi, 4,714,126, Cl. 180-233.000.
Shirasu, Chikao; Sakai, Hideo; and Innami, Yasutaka, 4,653,801, Cl. 296-202.000.
Sonoda, Toshinari; and Koinuma, Yutaka, 4,649,874, Cl. 123-90.360.
Sugama, Takayuki; Tabata, Hiroshi; and Honda, Tadanori, 4,712,759, Cl. 248-429.000.
Suzuki, Mitsuo; Hashimoto, Hitoshi; Ichikawa, Nobuyasu; Yamada, Ichiho; Ozawa, Akira; and Matsuyama, Taizo, 4,656,726, Cl. 29-568.000.
Suzuki, Norio; Watabe, Akira; and Yamashita, Kazunari, 4,677,959, Cl. 123-587.000.
Suzuki, Takahisa; Kuwahara, Shinichi; and Kawashima, Yoshinori, 4,712,633, Cl. 180-149.000.
Suzuki, Yoshio, 4,664,082, Cl. 123-414.000.
Suzuki, Yoshitaka; Komatsu, Hiroshi; and Kobayashi, Hayahiro, 4,663,940, Cl. 62-127.000.
Tabata, Hiroshi, 4,647,071, Cl. 280-806.000.
Tada, Yukio; Umeno, Hiroshi; Sugimoto, Yasuhiro; and Oka, Hideo, 4,692,123, Cl. 440-77.000.
Tagami, Katsutoshi; Tsuchiya, Yoshikazu; and Nakamura, Kazuo, 4,652,853, Cl. 340-52.00F.
Tagami, Katsutoshi; Takahashi, Tsuneo; Yasui, Shinichiro; and Sugimura, Masao, 4,663,629, Cl. 340-995.000.
Tagami, Tomoyuki, 4,697,824, Cl. 280-701.000.
Takada, Minoru; and Tsuchiya, Toshio, 4,708,361, Cl. 280-663.000.

Takagi, Yoshiaki; Katsui, Yoshihiro; Endo, Hiroyuki; and Ikenoue, Yutaka, 4,702,771, Cl. 75-241.000.

Takahashi, Fumitaka; Tsubata, Hideo; Oji, Nobuaki; and Mohri, Minoru, 4,672,214, Cl. 250-551.000.

Takahashi, Fumitaka; Kimura, Yoshihiko; Tsubata, Hideo; Oji, Nobuaki; and Mohri, Minoru, 4,674,828, Cl. 350-96.130.

Takahashi, Fumitaka; Kimura, Yoshihiko; Tsubata, Hideo; Ohji, Nobuaki; and Sashida, Kiyoshi, 4,707,057, Cl. 350-96.120.

Takahashi, Shinji; and Mita, Yoshinori, 4,715,465, Cl. 180-225.000.

Takahashi, Tsuneo; and Otsuka, Hirofumi, 4,637,264, Cl. 73-862.330.

Takanashi, Masami; and Komatsu, Akihiro, 4,641,723, Cl. 180-315.000.

Takayanagi, Shinji, 4,667,761, Cl. 180-217.000.

Takayanagi, Shinji, 4,714,453, Cl. 474-112.000.

Tamura, Gen, 4,667,758, Cl. 180-68.400.

Tanaka, Haruma; and Ohashi, Yasuo, 4,697,445, Cl. 72-68.000.

Tanaka, Kunihiko; Ochiai, Hideo; and Ikenoya, Yasuo, 4,671,781, Cl. 474-93.000.

Tanaka, Osami; Tagami, Tomoyuki; and Tsunoda, Kazuhiko, 4,673,053, Cl. 180-227.000.

Tashiro, Yutaka; and Sano, Shoichi, 4,709,936, Cl. 280-91.000.

Tomita, Takao; Matsuura, Masaaki; Hirano, Makoto; Handa, Masao; and Shiozaki, Tomoo, 4,671,228, Cl. 123-193.00P.

Tomita, Takao; and Kawai, Noriaki, 4,693,133, Cl. 74-467.000.

Tomoyuki, Nagashima, 4,667,765, Cl. 180-311.000.

Tottori, Takumi; Oki, Kenji; Ooyama, Kazuo; and Mizushima, Toshio, 4,714,056, Cl. 123-65.0PE.

Toyoda, Hidetoshi; and Koishi, Masaru, 4,667,785, Cl. 192-13.00A.

Tsuboi, Masaharu, 4,674,455, Cl. 123-195.00R.

Tsuboi, Masaharu, 4,706,774, Cl. 180-227.000.

Tsucaida, Tetsuo; Kawaguchi, Takeshi; Hayashi, Tsutomu; and Yamanoi, Yoshinori, 4,664,233, Cl. 188-181.00A.

Tsukamoto, Teisuke; Morohoshi, Shinichi; Iida, Tetsuo; Kishizawa, Yuji; Kato, Shoichi; Suzuki, Toshio; and Ebihara, Toshio, 4,698,975, Cl. 60-721.000.

Tsurumi, Yasuyuki; and Matsuzaki, Akio, 4,633,965, Cl. 180-229.000.

Uchiluba, Kouichi, 4,667,796, Cl. 192-85.0AA.

Uchida, Takanao, 4,672,927, Cl. 123-90.440.

Uda, Youichi; Matsushima, Seiya; Saito, Kazuhiko; Yamamoto, Shoji; and Murakami, Kazuhiro, 4,637,238, Cl. 70-456.00R.

Ukai, Norio; and Iwasaki, Akira, 4,706,977, Cl. 280-91.000.

Watabe, Akira; Tomobe, Norio; and Kobayashi, Hideo, 4,660,533, Cl. 123-588.000.

Watanabe, Kazuo; Shougase, Hajime; and Umeoka, Akio, 4,634,139, Cl. 280-288.000.

Watanabe, Masaki; Yamamoto, Hitoshi; Matsuoka, Yoshinori; and Tanaka, Kunihiko, 4,678,053, Cl. 180-210.000.

Watanabe, Teruoki; Nakamura, Yahiko; Hidaka, Akio; Kobayashi, Shunji; and Nozaki, Hiroyoshi, 4,659,628, Cl. 428-457.000.

Watanabe, Yoshimi; and Yamashita, Kazuya, 4,684,351, Cl. 440-89.000.

Yagasaki, Akio, 4,633,532, Cl. 2-424.000.

Yagasaki, Akio, 4,651,845, Cl. 180-219.000.

Yagasaki, Akio, 4,660,847, Cl. 280-298.000.

Yagasaki, Akio; and Marishima, Kazuo, 4,696,509, Cl. 296-84.00A.

Yagi, Shizuo; Hirosawa, Yoshiaki; Kawai, Makoto; and Fujii, Isao, 4,694,799, Cl. 123-425.000.

Yagi, Shizuo; Kawai, Makoto; and Yamamoto, Yorihisa, 4,709,678, Cl. 123-425.000.

Yakuwa, Masahiko, and Iijima, Hideto, 4,644,917, Cl. 123-414.000.

Yakuwa, Masahiko, 4,656,989, Cl. 123-490.000.

Yamada, Hiroyasu; and Shiraishi, Motoatsu, 4,657,734, Cl. 419-9.000.

Yamada, Hiroyasu; Shiraishi, Motoatsu; Tazou, Ken; Nakamura, Mitsuki; Kageyama, Ryoichi; Namiki, Akira; and Sasagawa, Masaru, 4,658,626, Cl. 72-405.000.

Yamada, Hiroyasu; Shiraishi, Motoatsu; Tazou, Ken; Nakamura, Mitsuki; Kageyama, Ryoichi; Namiki, Akira; and Sasagawa, Masaru, 4,682,685, Cl. 198-621.000.

Yamagata, Tetsuo, 4,672,941, Cl. 123-602.000.

Yamaguchi, Akio; and Yoshikawa, Kazushi, 4,714,026, Cl. 108-51.100.

Yamaguchi, Fumio; Nakaniwa, Yoshiaki; Masuda, Yoshiaki; Sakurai, Hisayuki; and Nakashima, Waichiro, 4,633,931, Cl. 164-110.000.

Yamaguchi, Ken, 4,641,721, Cl. 180-229.000.

Yamaguchi, Ken, 4,660,624, Cl. 165-41.000.

Yamaguchi, Kouji; Kawahara, Eiichiro; and Yamamoto, Noboru, 4,637,293, Cl. 91-507.000.

Yamamoto, Osamu; Sano, Shoichi; and Furukawa, Yoshimi, 4,660,844, Cl. 280-91.000.

Yamashita, Akihiko; Ikegami, Masahiko; and Hatanaka, Kaoru, 4,709,123, Cl. 174-52.00R.

Yamato, Akihiro, 4,643,152, Cl. 123-480.000.

Yamato, Akihiro, 4,671,241, Cl. 123-478.000.

Yamato, Akihiro; Koike, Yuzuru; and Futa, Kyozo, 4,681,075, Cl. 123-339.000.

Yamato, Akihiro; and Nishikawa, Takafumi, 4,708,115, Cl. 123-494.000.

Yano, Yoshiki; and Oikawa, Toshihiro, 4,637,358, Cl. 123-169.0PA.

Yashima, Michio; and Takahashi, Shuji, 4,666,009, Cl. 180-68.500.

Yashima, Michio; and Takahashi, Shuji, 4,700,795, Cl. 180-68.500.

Yasuo, Nakano; Fukami, Kazuaki; and Nishimoto, Yukimasa, 4,703,839, Cl. 188-346.000.

Yasuoka, Akimasa; Iwata, Takahiro; and Kiuchi, Takeo, 4,63 Cl. 123-488.000.

Yasuoka, Akimasa; and Kiuchi, Takeo, 4,635,607, Cl. 123-47

Yasuoka, Akimasa; Iwata, Takahiro; and Kiuchi, Takeo, 4,67 Cl. 123-478.000.

Yasuoka, Akimasa; and Kiuchi, Takeo, 4,646,699, Cl. 123-49

Yasuoka, Akimasa; and Kiuchi, Takeo, 4,649,877, Cl. 123-39

Yasuoka, Akimasa, 4,683,857, Cl. 123-478.000.

Yasuoka, Akimasa, 4,697,568, Cl. 123-490.000.

Yasuoka, Akimasa, 4,699,111, Cl. 123-489.000.

Yasuoka, Akimasa; and Kiuchi, Takeo, 4,702,210, Cl. 123-29

Yasuoka, Akimasa, 4,702,213, Cl. 123-480.000.

Yatabe, Fumio; and Wazaki, Yoshio, 4,694,805, Cl. 123-49

Yoshida, Hiroshi; Toyoshima, Takefumi; Iwabori, Tomio; Oka Hideaki; Miyamoto, Yasuo; Nishimura, Izumi; Oikawa, To shiyuki; Sekijima, Kenji; and Ohashi, Makoto, 4,70 C 248-562.000.

Honda, Haruhisa; Tsuchiya, Hiroaki; Setani, Michitaka; and Tokuda, Mitsuhiro; to Canon Kabushiki Kaisha. Image exposing appara 4,641,944, 2-10-87, Cl. 355-1.000.

Honda, Haruhisa, to Canon Kabushiki Kaisha. Process unit and ima forming apparatus using such unit. 4,699,494, 10-13-87, Cl. 355-3.00

Honda, Haruhisa; and Saito, Takashi, to Canon Kabushiki Kais Original reading device. 4,709,273, 11-24-87, Cl. 358-256.000.

Honda, Haruhisa: *See*—

Saito, Takashi; Nitanda, Hiroshi; Inuzuka, Tsuneki; Tokuda, Mitsuhiro; and Honda, Haruhisa, 4,702,586, Cl. 355-3.00R.

Honda, Haruyoshi: *See*—

Sato, Susumu; Honda, Haruyoshi; Koumoto, Teruo; Iwa Kazuo; Kuraishi, Tadayuki; and Katori, Tatsuhiko, 4,659,70 C 514-234.000.

Sato, Susumu; Honda, Haruyoshi; Koumoto, Teruo; Iwa Kazuo; Kuraishi, Tadayuki; and Katori, Tatsuhiko, 4,690,924 C 514-237.000.

Honda, Hiroki: *See*—

Kaneda, Nagao; Nakamura, Nanao; Koyama, Masao; Saito, K roh; and Honda, Hiroki, 4,651,310, Cl. 367-140.000.

Honda, Hiroo: *See*—

Murakami, Susumu; and Honda, Hiroo, 4,673,218, Cl. 296-10.0

Honda, Hisao: *See*—

Nagayama, Hirotsugu; Honda, Hisao; and Kawahara, Hi 4,693,916, Cl. 427-397.700.

Honda, Juaichi: *See*—

Koiwai, Sakae; Asaoka, Keizo; Shirasawa, Katsuhiko; Watan Hiroyuki; and Honda, Junichi, 4,640,001, Cl. 29-572.00

Honda, Kazuo; Horii, Yoshiaki; Hiramatsu, Kinuo; Nakamura, Sho and Kudo, Takashi, to Honda Giken Kogyo Kabushiki Kaisha. Bo frames. 4,678,054, 7-7-87, Cl. 180-225.000.

Honda, Kazuo: *See*—

Ueda, Shigeta; Hombu, Mitsuyuki; Honda, Kazuo; Ueda, Akio Suzuki, Katsunori; and Shima, Seiya, 4,672,520, Cl. 363-37.00

Honda, Kazuyoshi: *See*—

Sugita, Ryuji; Honda, Kazuyoshi; Nishida, Hiroshi; and No Kyoji, 4,687,712, Cl. 428-611.000.

Honda, Keiji: *See*—

Hata, Katsuhiko; Ohashi, Hisao; Honda, Keiji; and Yamam Takahiko, 4,682,962, Cl. 445-5.000.

Honda, Keijiro: *See*—

Inada, Shoshichiro; Furukawa, Kurune; Masui, Takachika; Hon Keijiro; Ogasawara, Joji; and Tsubakimoto, Gochi, 4,714,79 C 568-913.000.

Honda, Keisuke. Fish sonar. 4,651,309, 3-17-87, Cl. 367-108.000

Honda, Keisuke: *See*—

Yamamoto, Shigeo, 4,686,659, Cl. 367-87.000.

Honda, Kenji: *See*—

Kobayashi, Hiroyoshi; and Honda, Kenji, 4,661,896, Cl. 363-24.0

Honda, Kenji, deceased (by Honda, Reiko, executor); and Sawada Tadaaki, to Toho Beslon Co., Ltd.; and Tokyo Rope Manufacturing Co., Ltd. Composite rope and manufacture thereof. 4,677,818, 7-7-87 Cl. 57-224.000.

Honda, Kiichiro: *See*—

Yamaguchi, Tetsurou; Yamamoto, Kohji; and Honda, Kiichir 4,709,155, Cl. 250-554.000.

Honda, Kunihiko: *See*—

Ishikuro, Tadashi; Honda, Kunihiko; Ohta, Masataka; and Shirahata, Ryuji, 4,661,421, Cl. 428-694.000.

Honda, Kunioki, to Sanyo Electric Co., Ltd. Washing machine 4,662,193, 5-5-87, Cl. 68-12.00R.

Honda, Kusuo: *See*—

Okuda, Shuji; Shimomura, Hideo; Honda, Kusuo; Kawaguchi Masato; Kuno, Yasuo; Kumagai, Takenori; and Kato, Nobu 4,697,397, Cl. 52-223.00R.

Honda Lock Manufacturing Co., Ltd.: *See*—

Uda, Youichi; Matsushima, Seiya; Saito, Kazuhiko; Yamamoto Shoji; and Murakami, Kazuhiro, 4,637,238, Cl. 70-456.00R.

Honda Manufacturing Co., Ltd.: *See*—

Setoguti, Syohati; Nakatake, Yoshiteru; Uehara, Mitsuru; and Kudou, Masayuki, 4,692,835, Cl. 361-104.000.

Honda, Masahiro; and Maeda, Hironari, to Ube Industries, Ltd. Ap pratus for stacking shaped materials on a pallet. 4,712,961, 12-15 Cl. 414-42.000.

Honda, Masakazu: *See*—

Kobayashi, Akio; Harada, Susumu; Harada, Takashi; Kikuchi Takehiro; and Honda, Masakazu, 4,663,717, Cl. 364-431.050

Honda, Masanobu: *See*—
  Iida, Muneo; Simizu, Jyosei; Suzuki, Masami; Okamoto, Nobuyuki; Kazama, Toshinori; Honda, Masanobu; Mochida, Jiro; Tada, Seiji; and Fujii, Masayuki, 4,660,110, Cl. 360-98.000.

Honda, Masaru; Chiba, Takanori; Imokawa, Toshiaki; Harada, Yoshito; and Nagayasu, Katsumi, to Sumitomo Bayer Urethane Co., Ltd. Magnetic recording medium, a process for preparing a magnetic recording medium and a binder composition therefor. 4,686,145, 8-11-87, Cl. 428-425.900.

Honda, Michitaka: *See*—
  Kikuchi, Katsuya; and Honda, Michitaka, 4,653,080, Cl. 378-7.000.
  Kikuchi, Katsuya; and Honda, Michitaka, 4,656,650, Cl. 378-7.000.

Honda, Michiyasu: *See*—
  Oba, Hanji; Hyodo, Koji; Honda, Michiyasu; and Kameyama, Kazuhide, 4,658,882, Cl. 164-417.000.

Honda, Nobuyasu; Fujii, Masanori; and Kubo, Masahiko, to Mita Industrial Co., Ltd. Method for preventing offset in electrophotography. 4,645,729, 2-24-87, Cl. 430-126.000.

Honda, Nobuyasu: *See*—
  Fujii, Masanori; Honda, Nobuyasu; Horiuchi, Akira; and Kubo, Masahiko, 4,665,001, Cl. 430-106.000.
  Matsui, Toshikazu; Fushida, Akira; Honda, Nobuyasu; Nakao, Minoru; and Tsuji, Nobuyuki, 4,686,935, Cl. 118-658.000.

Honda, Noriyuki, to Meinan Machinery Works, Inc. Method of bonding veneer sheets and apparatus therefor. 4,675,066, 6-23-87, Cl. 156-285.000.

Honda, Reiko, executor: *See*—
  Honda, Kenji, deceased; and Sawafuji, Tadaaki, 4,677,818, Cl. 7-224.000.

Honda, Shoichi, to Honda Giken Kogyo Kabushiki Kaisha; and Daido Kogyo Kabushiki Kaisha. Power transmission chain. 4,643,704, 2-17-87, Cl. 474-245.000.

Honda, Shoichi, to Honda Giken Kogyo Kabushiki Kaisha; and Daido Kogyo Co., Ltd. Drive chain belt. 4,666,421, 5-19-87, Cl. 474-242.000.

Honda, Shoichi, to Honda Giken Kogyo Kabushiki Kaisha. V-belt. 4,668,210, 5-26-87, Cl. 474-242.000.

Honda, Susumu: *See*—
  Kang, Huang-Fu; Sugino, Hiromu; and Honda, Susumu, 4,681,930, Cl. 530-351.000.
  Nara, Kiyoshi; and Honda, Susumu, 4,686,284, Cl. 530-351.000.

Honda, Tadanori: *See*—
  Sugama, Takayuki; Tabata, Hiroshi; and Honda, Tadanori, 4,712,759, Cl. 248-429.000.

Honda, Tadashi; Imai, Kayoko; Nakatsuka, Nobuo; and Nakanishi, Toshihiro, to Suntory, Limited. Ailanthone derivatives. 4,665,201, 5-12-87, Cl. 549-278.000.

Honda, Tadashi, and Nakanishi, Toshihiro, to Suntory Limited. Ellipticine derivative and production process thereof. 4,698,423, 10-6-87, Cl. 536-24.000.

Honda, Tadatoshi; and Tsuda, Takeshi, to Mitsui Toatsu Chemicals, Incorporated. Magnetic powder and production process thereof. 4,668,283, 5-26-87, Cl. 75-0.5AA.

Honda, Takashi: *See*—
  Ohtsuji, Masaru; Itoh, Tomonori; Honda, Takashi; Ando, Shinobu; and Matsui, Kazumi, 4,657,475, Cl. 414-786.000.

Honda, Takayasu: *See*—
  Yoshida, Takeshi; Honda, Takayasu; Kitazume, Shunosuke; and Tanaka, Kouzou, 4,637,653, Cl. 297-334.000.

Honda, Tatsutoku; Endo, Michiyuki; Wakamatsu, Saburo; and Kudo, Yoshio, to Director-General of Agency of Industrial Science and Technology; and Showa Denko Kabushiki Kaisha. Laser-light absorber and method for absorbing laser light. 4,682,855, 7-28-87, Cl. 350-276.00R.

Honda, Tetsuya: *See*—
  Koda, Toshihide; Honda, Tetsuya; Taketoh, Kiyoshi; and Yoshida, Tadahiro, 4,667,474, Cl. 60-517.000.

Honda, Toshiharu: *See*—
  Oyama, Motofumi; Kubo, Yoichiro; and Honda, Toshiharu, 4,643,938, Cl. 428-268.000.
  Oyama, Motofumi; Honda, Toshiharu; and Kubo, Yoichiro, 4,656,219, Cl. 524-481.000.

Honda, Toshio; and Tsujiuchi, Junpei, to Osaka Seimitsu Kikai Kabushiki Kaisha. Optical method for detecting errors in shape. 4,657,396, 4-14-87, Cl. 356-394.000.

Honda, Toshio; and Nishimura, Kosuke, to Sharp Kabushiki Kaisha. Card-type data terminal operatively connectable to electronic apparatus. 4,705,211, 11-10-87, Cl. 235-380.000.

Honda, Toshio; Ohhashi, Toshiro; and Ohtsubo, Yasuo, to Kabushiki Kaisha Toshiba; and Harmonic Drive Systems Inc. Transmission apparatus with reduced frictional force. 4,715,247, 12-29-87, Cl. 74-640.000.

Honda, Toshio: *See*—
  Morimura, Yasuhiro; Fukuura, Yukio; Ishikawa, Hikaru; Tanuma, Itsuo; and Honda, Toshio, 4,707,397, Cl. 428-216.000.

Honda, Toyoharu; and Futami, Masaru, to Victor Company of Japan, Ltd. Electronic instrument having a remote playing unit. 4,653,375, 3-31-87, Cl. 84-1.010.

Honda, Tsurakazu: *See*—
  Arimitsu, Hiroshi; Hatano, Kiyoshi; Nakanishi, Teruyuki; Yoshimura, Yoshio; Urabe, Masaki; and Honda, Tsurakazu, 4,697,179, Cl. 340-825.720.

Honda Tsushin Kogyo Kabushiki Kaisha: *See*—
  Shimamiya, Yukio; Narumo, Kinzo; and Ebihara, Hiroshi, 4,639,066, Cl. 339-132.00B.

Honda, Yasuhiro: *See*—
  Yuyama, Yukihiro; Motosugi, Takanori; Honda, Yasuhiro; and Ichikawa, Akira, 4,711,874, Cl. 503-206.000.

Honda, Yoshinori: *See*—
  Kokaku, Yuuichi; Kitoh, Makoto; and Honda, Yoshinori, 4,713,288, Cl. 428-336.000.

Honda, Yoshiyuki; Esaki, Mitsunobu; Minagawa, Yoshiji; Uemura, Kazuho; and Inoue, Masahiro, to Mitsubishi Denki Kabushiki Kaisha. Home control system and interphone system. 4,665,544, 5-12-87, Cl. 379-104.000.

Honda, Yukio, to Murata Manufacturing Co., Ltd. Electronic components series. 4,702,370, 10-27-87, Cl. 206-331.000.

Honda, Yukio: *See*—
  Futamoto, Masaaki; Honda, Yukio; Uesaka, Yasutaro; and Yoshida, Kazuetsu, 4,707,756, Cl. 360-131.000.

Honda, Yutaka: *See*—
  Kamide, Kenji; Honda, Yutaka; and Kajita, Shuji, 4,663,232, Cl. 428-400.000.

Hondzinski, Leonard J.; and Wrest, Robert A. Rotatable side blower for air drying vehicles. 4,683,668, 8-4-87, Cl. 34-229.000.

Honegger, Werner, to Ferag AG. Printed product coil. 4,641,795, 2-10-87, Cl. 242-59.000.

Honegger, Werner, to Ferag AG. Apparatus for aligning a strap unwinding from a roll or the like with a guide or take-up member. 4,651,939, 3-24-87, Cl. 242-55.000.

Honegger, Werner, to Ferag AG. Method and apparatus for supplying printed products to a continuously operating processing line. 4,676,496, 6-30-87, Cl. 271-9.000.

Honegger, Werner, to Ferag AG. Apparatus for unwinding flexible flat products, especially printed products, arriving continuously, especially in imbricated formation. 4,682,741, 7-28-87, Cl. 242-55.000.

Honegger, Werner; and Hansch, Egon, to Ferag AG. Method and apparatus for opening printed products which have been folded off-center. 4,684,117, 8-4-87, Cl. 270-54.000.

Honegger, Werner, to FERAG AG. Method of preparing a shipment package of printing products arriving in an imbricated formation and package obtained thereby. 4,688,368, 8-25-87, Cl. 53-399.000.

Honegger, Werner, to Ferag AG. Apparatus for winding-up and unwinding continuously arriving flexible flat structures. 4,705,227, 11-10-87, Cl. 242-59.000.

Honegger, Werner, to Ferag AG. Removable divider wall cell wheel apparatus for processing printed products. 4,709,910, 12-1-87, Cl. 270-55.000.

Honekamp, Curtis J.; and Fasick, Ernest J., to Navistar International Corporation. Integrated parking lock for vehicle axles. 4,662,489, 5-5-87, Cl. 192-4.00A.

Honel, Michael: *See*—
  Gmoser, Johann; Paar, Willibald; and Honel, Michael, 4,711,935, Cl. 525-452.000.
  Paar, Willibald; Honel, Michael; and Gmoser, Johann, 4,711,934, Cl. 525-452.000.

Honemann, Rudolf: *See*—
  Maucher, Paul; and Honemann, Rudolf, 4,700,821, Cl. 192-106.200.
  Maucher, Paul; and Honemann, Rudolf, 4,700,822, Cl. 192-106.200.

Honer, William A. Head supported pillow. 4,679,263, 7-14-87, Cl. 5-437.000.

Honerkamp, Joseph D.: *See*—
  Ebeling, Harold O.; and Honerkamp, Joseph D., 4,661,130, Cl. 55-234.000.

Honey Bee Manufacturing Ltd.: *See*—
  Honey, Gregory J.; and Honey, Glenn R., 4,658,572, Cl. 56-228.000.

Honey, Glenn R.: *See*—
  Honey, Gregory J.; and Honey, Glenn R., 4,658,572, Cl. 56-228.000.

Honey, Gregory J.; and Honey, Glenn R., to Honey Bee Manufacturing Ltd. Tractor mounted swather. 4,658,572, 4-21-87, Cl. 56-228.000.

Honey, Stanley K.: *See*—
  Buxton, James L.; Phillips, Alan C.; and Honey, Stanley K., 4,686,642, Cl. 364-607.000.

Honeyager, Richard J.: *See*—
  Schaefer, David V.; and Honeyager, Richard J., 4,704,777, Cl. 29-148.300.

Honeycutt, Fred L., Jr.; and Middleton, Robert G., to United Technologies Corporation. Finger seal assembly. 4,645,217, 2-24-87, Cl. 277-230.000.

Honeycutt, Fred L., Jr., to United Technologies Corporation. Louvered seal flap for flap-type nozzle. 4,662,566, 5-5-87, Cl. 239-265.390.

Honeycutt, Fred L., Jr.: *See*—
  Robinson, Ronald L.; and Honeycutt, Fred L., Jr., 4,690,330, Cl. 239-265.390.

Honeycutt, Kenneth D.: *See*—
  Sternberg, Ben K.; Dunster, Donald E.; and Honeycutt, Kenneth D., 4,642,570, Cl. 324-366.000.

Honeycutt, Thomas E.; and Roberts, Thomas G., to United States of America, Army. Compensated dual cavity laser gyro. 4,647,204, 3-3-87, Cl. 356-350.000.

Honeycutt, Thomas E.; and Roberts, Thomas G., to United States of America, Army. Cylindrical laser welder. 4,658,109, 4-14-87, Cl. 219-121.0LC.

Honeycutt, Thomas E., and Roberts, Thomas G., to United States of America, Army. Pulsed digital multiplex laser generator. 4,677,398, 6-30-87, Cl. 332-7.510.

Honeycutt, Thomas E.: *See*—
  Otto, William F.; Roberts, Thomas G.; Jenkins, Andrew H.; and Honeycutt, Thomas E., 4,645,448, Cl. 431-1.000.

Otto, William F.; Jenkins, Andrews H.; Roberts, Thomas G.; and Honeycutt, Thomas E., 4,649,955, Cl. 137-624.130.
Roberts, Thomas G.; and Honeycutt, Thomas E., 4,639,642, Cl. 315-39.000.
Roberts, Thomas G.; and Honeycutt, Thomas E., 4,673,250, Cl. 350-320.000.
Roberts, Thomas G.; Conrad, Raymond W.; Otto, William F.; and Honeycutt, Thomas E., 4,692,623, Cl. 250-349.000.
Roberts, Thomas G.; Conrad, Raymond W.; and Honeycutt, Thomas E., 4,707,133, Cl. 356-320.000.
Honeywell Bull Inc.: *See—*
Ferrell, Charles W.; and Howell, Thomas H., 4,688,186, Cl. 364-764.000.
Genuit, Luther L., 4,694,241, Cl. 323-340.000.
Hooker, Lane K.; Howell, Thomas H.; and Ferrell, Charles W., 4,695,951, Cl. 364-200.000.
Ryan, Charles P.; and Guenthner, Russell W., 4,707,784, Cl. 364-200.000.
Honeywell B.V.: *See—*
Berkhof, Hendrikus, 4,671,457, Cl. 236-46.00R.
Berkhof, Hendrikus, 4,692,574, Cl. 200-81.500.
Berkhof, Hendrikus, 4,695,052, Cl. 237-8.00R.
Honeywell GmbH: *See—*
Drefahl, Dieter, 4,654,833, Cl. 367-87.000.
Hohmann, Thomas, 4,641,255, Cl. 364-522.000.
Schwartz, Peter U., 4,665,372, Cl. 332-9.00R.
Honeywell Inc.: *See—*
Aagard, Roger L., 4,651,120, Cl. 338-4.000.
Abbott, Richard C.; and Vydyanath, Honnavalli R., 4,697,543, Cl. 118-412.000.
Acker, William F., 4,672,644, Cl. 377-58.000.
Ackermann, Henry A., 4,648,524, Cl. 220-22.000.
Adams, Guy E., 4,643,373, Cl. 244-3.190.
Adams, John T.; and Bohan, John E., Jr., 4,641,043, Cl. 307-117.000.
Adams, John T.; and Mueller, Dale A., 4,684,060, Cl. 236-11.000.
Aggers, John R.; Brindle, Ralph C.; Kidder, Kenneth B.; and Ullestad, David C., 4,657,179, Cl. 236-51.000.
Alfors, Eugene D., 4,641,003, Cl. 200-332.000.
Atherton, Jay W., 4,673,887, Cl. 330-10.000.
Atherton, Jay W.; Castor, Raymond A.; Christie, Leonard F.; and Engerman, Robert C., 4,683,439, Cl. 330-10.000.
Baier, Steven M.; Cirillo, Nicholas C., Jr.; Hanka, Steven A.; and Shur, Michael S., 4,638,341, Cl. 357-15.000.
Barnard, William B.; Shavit, Gideon; and Wruck, Richard A., 4,660,759, Cl. 236-46.00R.
Barnard, William B., 4,706,882, Cl. 236-46.00R.
Beckey, Thomas J., 4,674,027, Cl. 364-143.000.
Beckey, Thomas J.; and Kallas, Kerry M., 4,702,305, Cl. 165-12.000.
Beckey, Thomas J.; Kallas, Kerry M.; and Uhrich, Daniel T., 4,702,413, Cl. 236-46.00R.
Beckey, Thomas J., 4,703,795, Cl. 165-29.000.
Bedros, Renee; and Schnell, Robert J., 4,658,428, Cl. 382-30.000.
Berg, Ralph T., 4,678,335, Cl. 356-350.000.
Bergstrom, James W.; and Podgorski, Theodore J., 4,712,917, Cl. 356-350.000.
Bhatt, Devesh; and Schroeder, Michael O., 4,636,967, Cl. 364-550.000.
Biard, James R., 4,661,726, Cl. 307-450.000.
Boebert, William E.; and Kain, Richard Y., 4,701,840, Cl. 364-200.000.
Boebert, William E.; and Kain, Richard Y., 4,713,753, Cl. 364-200.000.
Bohan, John E., Jr., 4,696,639, Cl. 431-59.000.
Bohrer, Philip J.; Higashi, Robert E.; and Johnson, Robert G., 4,683,159, Cl. 428-138.000.
Brashears, David W., 4,671,688, Cl. 400-714.000.
Braunling, Russell D., 4,653,035, Cl. 367-136.000.
Braunling, Russell D., 4,661,939, Cl. 367-136.000.
Brindle, Ralph C.; and Kidder, Kenneth B., 4,654,653, Cl. 340-825.200.
Broberg, Theodore W.; and Rathe, David D., 4,667,162, Cl. 330-4.300.
Broden, David E.; Martwick, Wilford E.; and Warren, John B., 4,709,638, Cl. 102-522.000.
Brownell, David J.; Christiansen, Daniel C.; Erie, David G.; and Youngner, Daniel, 4,642,162, Cl. 156-643.000.
Carlson, Robert J.; and Shelburne, Paulette S., 4,704,188, Cl. 156-656.000.
Carney, James K.; and Kolbas, Robert M., 4,637,122, Cl. 29-569.00L.
Carney, James K., 4,652,333, Cl. 156-626.000.
Casey, Daniel K.; and Lee, Eddie C., 4,662,989, Cl. 156-655.000.
Casper, Lawrence A., 4,672,437, Cl. 358-101.000.
Cates, Marion H.; and Szonntagh, Eugene L., 4,711,765, Cl. 422-89.000.
Cirillo, Nicholas C., Jr.; Helix, Max J.; and Jamison, Stephen A., 4,662,058, Cl. 29-571.000.
Clarke, Charles J., Jr.; and Staggs, Kevin P., 4,668,947, Cl. 340-709.000.
Corwin, Rudolph E., 4,674,811, Cl. 439-69.000.
Cotie, Gary R.; Culp, Charles H.; Dargis, Daniel J.; Mendala, John M.; and Spielman, Stephen C., 4,667,193, Cl. 340-825.080.
Coulter, Thomas R.; Isaacson, Philip O.; and Thiede, Edwin C., 4,707,697, Cl. 342-25.000.
Dalal, Samir K., 4,642,727, Cl. 361-212.000.
Davidson, Dale D.; and Endrud, Douglas G., 4,713,757, C 364-200.000.
Davis, David C., Jr., 4,644,543, Cl. 371-37.000.
Deetz, David W.; and Kreevoy, Maurice M., 4,710,205, C 55-158.000.
Dietiker, Paul; and Nelson, Marvin D., 4,637,429, Cl. 137-505.1
Doddapaneni, Narayan, 4,698,283, Cl. 429-101.000.
Doddapaneni, Narayan, 4,710,437, Cl. 429-101.000.
Donovan, William J., 4,672,246, Cl. 307-571.000.
Donovan, William J., 4,682,061, Cl. 307-571.000.
Donovan, William J.; and Sanford, George G., 4,686,627, C 364-481.000.
Eder, Kenneth C.; and Krzyanowski, Robert V., 4,679,175, C 367-98.000.
Egli, Werner H.; and Weber, Mark W., 4,637,723, Cl. 356-350.0
Egli, Werner H., 4,648,716, Cl. 356-350.000.
Egli, Werner H., 4,657,392, Cl. 356-350.000.
Egli, Werner H.; Miller, John W.; and Setterholm, Jeffrey M 4,672,562, Cl. 364-559.000.
Egli, Werner H.; Miller, John W.; and Setterholm, Jeffrey M 4,672,564, Cl. 364-559.000.
Egli, Werner H., 4,695,160, Cl. 356-350.000.
Erie, David G.; Roberts, Jon A.; and Lee, Eddie C., 4,713,682, C 357-54.000.
Evans, Thomas E., 4,660,122, 'Cl. 361-90.000.
Fant, Karl M.; and Ferguson, Dennis D., 4,667,190, C 340-747.000.
Finn, Chris J.; and Youngner, Daniel W., 4,679,308, Cl. 29-576.0
Ford, Carol M., 4,672,624, Cl. 372-87.000.
Forsman, Allyn J., 4,682,952, Cl. 434-12.000.
Foss, Norman A.; Kruse, Paul W., Jr.; and Wood, R. Andre 4,654,622, Cl. 338-14.000.
Gallant, W. Keith, 4,702,169, Cl. 102-401.000.
Gawronski, Michael J.; and Lamberg, John R., 4,716,389, C 333-81.00A.
Glenn, Max C.; McMullen, Raymond F.; and Wamstad, David B 4,665,754, Cl. 73-727.000.
Gordon, William R.; Nicholson, Peter N.; and Six, John E 4,645,931, Cl. 250-352.000.
Graebel, Jeffrey P., 4,661,927, Cl. 365-175.000.
Graf, Carl P.; Fairchild, Kim M.; Fant, Karl M.; Rusler, Georg W.; and Schroeder, Michael O., 4,645,459, Cl. 434-43.000.
Grangroth, Robert H.; and Loy, Jerald M., 4,649,339, Cl. 2 158.00F.
Griffith, Robert K.; Hardy, T. Norman; McKnight, Edley V.; an Vavra, Vladimir K., 4,677,400, Cl. 333-159.000.
Gustafson, Harry A.; Lim, Wah L.; and Zeman, Francis H 4,641,970, Cl. 356-350.000.
Gut, Edward B.; and Orrico, Mario M. V., 4,705,066, C 137-486.000.
Hager, Robert J., 4,706,604, Cl. 118-415.000.
Haglund, Steve A.; Lohmann, Arthur M.; and Pickering-Johans Sharon A., 4,712,478, Cl. 102-424.000.
Hastreiter, James J., 4,667,181, Cl. 340-365.00A.
Haugen, Richard D., 4,685,485, Cl. 137-85.000.
Haugland, James R., 4,683,473, Cl. 342-172.000.
Hegg, Jeffrey W., 4,639,658, Cl. 323-204.000.
Hertsgaard, John P.; and Gallant, W. Keith, 4,714,020, C 102-351.000.
Higashi, Robert E.; James, Steven D.; Johnson, Robert G.; an Satren, Ernest A., 4,682,503, Cl. 73-755.000.
Higashi, Robert E., 4,696,188, Cl. 73-204.000.
Howard, James W., 4,697,866, Cl. 350-1.400.
Huffnagle, Norman P., 4,691,105, Cl. 250-338.000.
Janssen, John E., 4,682,898, Cl. 374-179.000.
Jatnieks, Girts U., 4,695,782, Cl. 318-748.000.
Jenekhe, Samson A.; and Hansen, Marcia K., 4,694,062, C 528-232.000.
Jenekhe, Samson A.; and Hansen, Marcia K., 4,711,946, C 528-251.000.
Johnson, Allan P.; and Shovan, Ronald W., 4,659,930, C 250-336.100.
Johnson, James' S.; and Albrecht, Gene A., 4,680,866, C 33-356.000.
Johnson, Robert G.; and Higashi, Robert E., 4,651,564, C 73-204.000.
Johnson, Robert G., 4,706,061, Cl. 338-34.000.
Johnson, Robert G., 4,708,636, Cl. 431-20.000.
Jungkman, David L.; Nicholson, Peter N.; and Brennan, Thomas M., 4,661,707, Cl. 250-352.000.
Kasprzyk, Donald J., 4,690,324, Cl. 237-8.00R.
Kay, Robert M., 4,669,881, Cl. 356-350.000.
Kidder, Kenneth B.; Smith, Gary A.; and Wacker, Paul C. 4,656,835, Cl. 62-175.000.
Kirk, David L., 4,670,876, Cl. 371-3.000.
Kirk, David L., 4,709,347, Cl. 364-900.000.
Koets, Howard, 4,639,709, Cl. 337-360.000.
Kompelien, Arlon D., 4,635,845, Cl. 236-46.00R.
Kovacic, Charles R.; and Noshay, David A., 4,706,065, Cl 340-303.000.
Kozlik, Tony J.; and Landini, Bruce J., 4,680,581, Cl. 340-825.06
Lee, James C., 4,712,857, Cl. 350-96.140.
Lees, David E. B.; and Merchant, John, 4,695,959, Cl. 364-458.00
Lenz, James E.; and Mitchell, Gordon L., 4,634,977, C 324-244.000.

Levine, Michael R., 4,635,708, Cl. 165-12.000.
Levine, Michael R.; Russo, James T.; and Rigotti, Victor H., 4,669,654, Cl. 236-46.00R.
Levine, Michael R., 4,683,939, Cl. 165-12.000.
Levine, Michael R., 4,685,614, Cl. 236-78.00D.
Levine, Michael R.; Russo, James T.; Cairo, Anthony C.; and Rigotti, Victor H., 4,695,942, Cl. 364-188.000.
Liu, Michael S.; and Hoefflinger, Bernd, 4,686,758, Cl. 437-34.000.
Loeb, Phillip J., 4,698,619, Cl. 340-384.00E.
Matthys, Robert J., 4,667,171, Cl. 331-66.000.
Matzen, Walter T., Jr., 4,658,282, Cl. 357-34.000.
Mellum, Lowell C.; and Podgorski, Theodore J., 4,672,623, Cl. 372-87.000.
Merchant, John, 4,635,203, Cl. 364-458.000.
Meyer, David A.; Tasson, Brian B.; Vollmer, Robert F.; and Warren, J. Bruce, 4,691,638, Cl. 102-434.000.
Miller, John W., 4,652,917, Cl. 358-107.000.
Miller, John W.; Mittelmark, Melvin F.; and Schmidt, Roger N., 4,707,644, Cl. 318-136.000.
Mocker, Hans W., 4,707,835, Cl. 372-20.000.
Montorefano, Gianpaolo, 4,660,136, Cl. 363-26.000.
Mott, Richard C., 4,668,102, Cl. 374-142.000.
Mykkanen, C. Fred, 4,649,634, Cl. 29-751.000.
Nelson, Marvin D., 4,679,023, Cl. 337-140.000.
Newcombe, William R., Jr.; Prysby, Daniel G.; Sanderson, Michael E.; and Schiller, David S., 4,670,886, Cl. 375-3.000.
Paine, Christopher G.; White, William J.; and Resnick, Susan J., 4,695,861, Cl. 357-30.000.
Parenteau, James E., 4,669,675, Cl. 242-7.090.
Payne, Peter, 4,660,428, Cl. 74-104.000.
Payne, Peter, 4,704,912, Cl. 74-89.150.
Payne, Peter P.; and Pienta, William T., 4,694,192, Cl. 307-39.000.
Plagens, Mark R., 4,698,524, Cl. 307-450.000.
Plaster, James L., 4,675,058, Cl. 148-171.000.
Podgorski, Theodore J., 4,670,691, Cl. 313-549.000.
Podgorski, Theodore J., 4,677,641, Cl. 372-108.000.
Ray, Sankar, 4,669,175, Cl. 29-569.00L.
Reinke, James D., 4,675,594, Cl. 323-317.000.
Rosenberger, Mark E., 4,656,454, Cl. 338-2.000.
Roth, Roger R.; and Hrdlicka, Gregory A., 4,675,648, Cl. 340-310.00A.
Saffari, Akbar, 4,706,383, Cl. 29-879.000.
Sanders, Glen A., 4,673,293, Cl. 356-350.000.
Schuetz, James A., 4,681,812, Cl. 428-432.000.
Simison, Paul C., 4,686,640, Cl. 364-571.000.
Sokolov, Vladimir; and Beyer, James B., 4,675,911, Cl. 455-325.000.
Staggs, Kevin P.; and Clarke, Charles J., Jr., 4,663,619, Cl. 340-750.000.
Starr, James B., 4,649,363, Cl. 338-4.000.
Stauffer, Norman L., 4,655,586, Cl. 356-1.000.
Stauffer, Norman L., 4,716,430, Cl. 354-403.000.
Tromborg, Erik T., 4,665,440, Cl. 358-213.290.
Tufte, Obert N., 4,706,100, Cl. 357-16.000.
Venkatasetty, H. V., 4,662,996, Cl. 204-1.00T.
Vu, Tho T., 4,712,022, Cl. 307-448.000.
Vu, Tho T.; and Lee, Kang W., 4,713,559, Cl. 307-446.000.
Walker, Charles S., 4,642,749, Cl. 363-56.000.
Walker, Charles S., 4,689,592, Cl. 336-83.000.
Walker, Charles S.; Atherton, Jay W.; and West, Gerald W., 4,689,731, Cl. 363-24.000.
Walker, Charles S., 4,694,387, Cl. 363-56.000.
Wamstad, David B., 4,710,744, Cl. 338-4.000.
Webb, Winston S., 4,696,501, Cl. 294-86.400.
Wilwerding, Dennis J., 4,684,798, Cl. 250-201.000.
Wilwerding, Dennis J., 4,695,719, Cl. 250-216.000.
Yee, Jimmy, 4,689,499, Cl. 307-360.000.
Yount, Larry J.; Wilt, Nicholas J.; Hill, Bryan H.; and Peterson, Donald A., Jr., 4,683,532, Cl. 364-200.000.

Honeywell Information System Italia: *See—*
Maccianti, Tiziano; and Balasini, Flavio, 4,661,925, Cl. 364-900.000.

Honeywell Information Systems Inc.: *See—*
Abraham, Ronald F., 4,662,067, Cl. 29-861.000.
Abraham, Ronald F., 4,695,923, Cl. 361-361.000.
Blomstedt, John W.; Yoshida, Paul S.; Irving, Wesley F.; and Roudenko, Vladimir, 4,685,032, Cl. 361-412.000.
Boudreau, Daniel A.; and Salas, Edward R., 4,654,788, Cl. 364-200.000.
Bradley, John J.; Stoffers, Brian L.; and Widen, Melinda A., 4,672,360, Cl. 340-347.0DD.
Bradley, John J., 4,677,548, Cl. 364-200.000.
Bruce, Kenneth E., 4,642,626, Cl. 340-750.000.
Bruce, Kenneth E., 4,701,863, Cl. 364-518.000.
Chasse, Dennis W.; Bourgeois, David R.; and Comins, Todd R., 4,646,260, Cl. 364-900.000.
Clark, Vincent M., Jr.; Bourgeois, David R.; Chasse, Dennis W.; and Comins, Todd R., 4,669,057, Cl. 364-900.000.
Crain, Steven L.; and Miller, Homer W., 4,649,539, Cl. 371-25.000.
Getson, Edward F., Jr.; Bradley, John W.; and Cote, Bruce R., 4,663,733, Cl. 364-900.000.
Goss, Gary J.; Moles, Robert G. H.; Hinrichs, Randall D.; and Holtey, Thomas O., 4,651,329, Cl. 375-94.000.
Goss, Gary J.; Holtey, Thomas O.; and Siwik, James C., 4,703,322, Cl. 340-750.000.
Holtey, Thomas O.; Bruce, Kenneth E.; and Goss, Gary J., 4,683,466, Cl. 340-703.000.
Joyce, Thomas F.; and Kelly, Richard P., 4,641,305, Cl. 371-12.000.
Keeley, James W.; Ledoux, Robert V.; and Negi, Virendra S., 4,667,288, Cl. 364-200.000.
Keeley, James W.; Ledoux, Robert V.; and Negi, Virendra S., 4,686,621, Cl. 364-200.000.
Keeley, James W.; and Joyce, Thomas F., 4,695,943, Cl. 364-200.000.
Kelly, Richard P.; and Joyce, Thomas F., 4,670,835, Cl. 364-200.000.
Marshall, J. Nathaniel, 4,652,730, Cl. 235-436.000.
McCarthy, Daniel M., 4,680,702, Cl. 364-200.000.
Morganti, Victor M.; and Prange, Patrick E., 4,703,417, Cl. 364-200.000.
Murray, Thomas L., Jr.; and Holtey, Thomas O., 4,639,858, Cl. 364-200.000.
Murray, Thomas L., Jr.; Stonier, James W.; Goss, Gary J.; and Holtey, Thomas O., 4,665,482, Cl. 364-200.000.
Murray, Thomas L., Jr.; Siwik, James C.; and Holtey, Thomas O., 4,667,329, Cl. 371-24.000.
Noyes, Robert W., 4,634,203, Cl. 339-91.00R.
Noyes, Robert W., 4,688,868, Cl. 439-108.000.
Noyes, Robert W., 4,702,542, Cl. 439-347.000.
Nusinov, Eugene; and Bradley, John J., 4,654,789, Cl. 364-200.000.
Peters, Arthur, 4,639,860, Cl. 364-200.000.
Plesinger, Boris; and Brown, Lynn H., 4,665,822, Cl. 101-123.000.
Russell, Robert J., 4,711,024, Cl. 29-832.000.
Stoffers, Brian L., 4,638,450, Cl. 364-715.000.
Stonier, James W.; Murray, Thomas L., Jr.; Goss, Gary J.; and Holtey, Thomas O., 4,665,481, Cl. 364-200.000.

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Baroni, Giuseppe; and Montorfano, Gianpaolo, 4,646,217, Cl. 363-17.000.
Cassiano, Cosimo; and Pessina, Fabio, 4,650,355, Cl. 400-196.100.
Cattaneo, Sergio, 4,648,730, Cl. 400-124.000.
Cavallari, Piergiuseppe, 4,662,764, Cl. 400-124.000.
Ciacci, Franco; Pizzoferrato, Vincenzo; and Tessera, Giancarlo, 4,665,483, Cl. 364-200.000.
Costantini, Giorgio, 4,694,394, Cl. 364-200.000.
Fossati, Paolo; and Melloni, Paolo, 4,646,304, Cl. 371-38.000.
Lodi, Renato, 4,635,811, Cl. 220-69.000.
Montorfano, Gianpaolo, 4,634,903, Cl. 307-571.000.
Stefani, Giannico, 4,664,541, Cl. 400-124.000.
Troletti, Bonifacio, 4,672,482, Cl. 360-45.000.
Troletti, Bonifacio, 4,714,968, Cl. 360-51.000.

Honeywell Limited: *See—*
Head, W. John; and Watson, Francis M., 4,701,669, Cl. 315-155.000.
Mejia, Ezequiel, 4,680,582, Cl. 340-825.170.

Honeywell Lucifer SA: *See—*
Livet, Jean, 4,655,249, Cl. 137-625.500.

Hong, Andrew M. P. Heater and holder for soft roller hair curlers. 4,658,114, 4-14-87, Cl. 219-222.000.
Hong, Chung-Yieh. Security case used on counter. 4,637,325, 1-20-87, Cl. 109-19.000.
Hong, James K. Therapeutic inflatable lumbar brace having a heater. 4,702,235, 10-27-87, Cl. 128-78.000.
Hong, Ju-Hi J., to International Business Machines Corp. Error correction scheme. 4,677,627, 6-30-87, Cl. 371-57.000.

Hong, Keum P.: *See—*
Hong, Soon Y.; and Hong, Keum P., 4,672,704, Cl. 6-10.000.

Hong, Ki C.; Griston, Suzanne; and Ault, Joseph W., to Chevron Research Company. Limited entry method for multiple zone, compressible fluid injection. 4,640,355, 2-3-87, Cl. 166-269.000.
Hong, Lazaro M. Vacuum integrated circuit. 4,712,039, 12-8-87, Cl. 313-307.000.
Hong, Leon; and Balboni, John J. Method for preparing filled cooked dough product. 4,693,899, 9-15-87, Cl. 426-94.000.

Hong, Ngai H.: *See—*
Tachibana, Tadashi; Reddy, Chitranjan N.; and Hong, Ngai H., 4,653,030, Cl. 365-222.000.

Hong, Seung-Ok: *See—*
Marancik, William G.; and Hong, Seung-Ok, 4,646,428, Cl. 29-599.000.

Hong Sheet Metal Pte. Limited: *See—*
Hansen, Peder U.; and Beazley, Mark D., 4,635,413, Cl. 52-92.000.

Hong, Soon Y.; and Hong, Keum P. Frame assembly for collecting royal jelly. 4,672,704, 6-16-87, Cl. 6-10.000.
Hong, Sun-Nan; and Spector, Marshall L., to Air Products and Chemicals, Inc. Method for minimizing diurnal swing in phosphorus content of effluent streams from wastewater treating plants. 4,650,585, 3-17-87, Cl. 210-605.000.
Hong, Sung W.; and Cangelosi, Phillip J., to Uniroyal Goodrich Tire Company, The. Self-sealing tire with edge strips for tire sealant. 4,664,168, 5-12-87, Cl. 152-504.000.
Hong, Vuong B.; Rowson, Stuart C.; Daniel, Richard A.; and Rostek, Paul M., to NCR Corporation. Edge triggered clock distribution system. 4,638,256, 1-20-87, Cl. 328-105.000.

Hong, Yan Chan: *See—*
Jeang, Yuh Y., 4,671,088, Cl. 70-312.000.

Hong, You H.: *See—*
Suh, Jung J.; and Hong, You H., 4,683,306, Cl. 544-33.000.

Hongel, Chester C., to ElecSpec Corporation. Switch contact arc suppressor. 4,658,320, 4-14-87, Cl. 361-13.000.
Honger, Hanspeter, to Grapha-Holding AG. Apparatus for stacking paper sheets and the like. 4,674,934, 6-23-87, Cl. 414-103.000.

Hongo, Akira: *See—*
Yoshida, Eiichi; Aoki, Nobuyoshi; Suzuki, Toshimitsu; Hongo, Akira; Ueda, Hideki; and Nakata, Issei, 4,703,609, Cl. 53-431.000.

Hongo, Mikio: *See—*
  Miyauchi, Tateoki; Yamaguchi, Hiroshi; Hongo, Mikio; Mizukoshi, Katsuro; Shimase, Akira; and Satoh, Ryohei, 4,687,939, Cl. 250-492.200.
Hongo, Suzuaki; Niwa, Minoru; Hashiba, Takahiro; Harata, Mitsuru; Hirata, Ichiro; Ito, Isamu; and Sonobe, Akihiko, to Toyoda Gosei Co., Ltd. Steering wheel for vehicles. 4,709,944, 12-1-87, Cl. 280-777.000.
Hongo, Takayasu: *See—*
  Mori, Tohru; Hongo, Takayasu; and Kamikura, Rinzo, 4,639,751, Cl. 346-227.000.
Hongo, Takero: *See—*
  Arakawa, Hideo; Sugiyama, Gunji; Tange, Koichi; Hongo, Takero; Yamamoto, Yuzo; and Ohba, Hiroyuki, 4,700,302, Cl. 364-424.000.
Hongo, Toshio, to Maru Kikai Kogyo Co., Ltd. Apparatus for adjusting tool length of bending machine. 4,660,402, 4-28-87, Cl. 72-389.000.
Hongo, Tsuyoshi: *See—*
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Hongo, Yusuo; and Nitta, Yoshio, to Fuji Electric Co., Ltd. Pattern recognition apparatus. 4,641,355, 2-3-87, Cl. 382-34.000.
Hongu, Masayuki: *See—*
  Sarugaku, Toshio; Motoe, Hisafumi; Tokuhara, Masaharu; and Hongu, Masayuki, 4,673,983, Cl. 358-183.000.
Hongu, Tatsuhiko: *See—*
  Endo, Morinobu; Takamizawa, Minoru; Hongu, Tatsuhiko; and Kobayashi, Taishi, 4,676,966, Cl. 423-345.000.
Hongu, Tatsuya; Suzuki, Toshio; Ogawa, Yoshihiko; and Itoh, Takeshi, to Nisshin Spinning Co., Ltd. Vibration isolator. 4,689,357, 8-25-87, Cl. 521-176.000.
Hongu, Tatsuya: *See—*
  Sato, Yoshihiko; Ohishi, Fujio; Hongu, Tatsuya; Suzuki, Toshio; and Ogawa, Yoshihiko, 4,652,495, Cl. 428-425.500.
Honguu, Kazuoki: *See—*
  Ishiwatari, Takahiko; Kishi, Hiroyoshi; Kawade, Hisaaki; Matsushima, Masaaki; Sawamura, Mitsuharu; and Honguu, Kazuoki, 4,658,388, Cl. 369-13.000.
  Kikuchi, Kazuhiko; Honguu, Kazuoki; and Sawamura, Mitsuharu, 4,711,821, Cl. 428-457.000.
  Sawamura, Mitsuharu; Honguu, Kazuoki; and Kikuchi, Kazuhiko, 4,695,510, Cl. 428-336.000.
Honig, Arnold, to Syracuse University. Production of spin polarized fusion fuels. 4,642,206, 2-10-87, Cl. 264-0.500.
Honig, Emanuel M., to United States of America, Energy. Reversing-counterpulse repetitive-pulse inductive storage circuit. 4,642,476, 2-10-87, Cl. 307-108.000.
Honig, Helmut; and Pampouchidis, Georg, to Vianova Kunstharz, A.G. Process for producing multiple-coat paint systems based on thermically polymerizable resin systems as binders and paint systems thereby produced. 4,652,353, 3-24-87, Cl. 204-180.600.
Honig, Helmut: *See—*
  Paar, Willibald; and Honig, Helmut, 4,683,285, Cl. 528-113.000.
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Honig, Milton L.; and Weil, Edward D., to Stauffer Chemical Company. Process for preparing methyl phosphonamides. 4,642,366, 2-10-87, Cl. 558-138.000.
Honig, Richard E.: *See—*
  Magee, Charles W.; and Honig, Richard E., 4,697,085, Cl. 250-426.000.
Honigs, David H.: *See—*
  Hieftje, Gary M.; and Honigs, David H., 4,642,778, Cl. 364-498.000.
Honigsbaum, Richard F. Smoke-incinerating woodstove. 4,646,713, 3-3-87, Cl. 126-79.000.
Honji, Akio: *See—*
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Honjo, Kazuhiko: *See—*
  Kadokura, Sadao; Honjo, Kazuhiko; Tomie, Takashi; and Naoe, Masahiko, 4,666,788, Cl. 428-611.000.
Honjo, Kenji; and Nakamura, Tooru, to Mitsubishi Denki Kabushiki Kaisha. Inverter control circuit. 4,667,116, 5-19-87, Cl. 307-64.000.
Honjo, Masahiro; and Hashima, Akio, to Matsushita Electric Industrial Co., Ltd. Video signal recording/reproducing apparatus. 4,691,247, 9-1-87, Cl. 358-319.000.
Honjo, Masahiro; and Hashima, Akio, to Matsushita Electric Industrial Co., Ltd. Magnetic recording and playback apparatus for teletext signals. 4,695,900, 9-22-87, Cl. 358-310.000.
Honjo, Masahiro, to Matsushita Electric Industrial Co., Ltd. Noise reduction feedback type comb filter. 4,703,343, 10-27-87, Cl. 358-36.000.
Honjo, Takeshi; Takahata, Naomi; Tanaka, Mamoru; and Umeda, Yoshihito, to Canon Kabushiki Kaisha. Original feeding apparatus. 4,667,951, 5-26-87, Cl. 271-259.000.
Honjo, Takeshi: *See—*
  Nakayama, Tomobumi; Mori, Toshihiko; Hirose, Masayuki; Ohbuchi, Toru; Miyata, Masanori; Nakamura, Shinichi; and Honjo, Takeshi, 4,712,908, Cl. 355-14.0SH.
Honjo, Yoshiaki, to Casio Computer Co., Ltd. Mobile robot calling system. 4,672,280, 6-9-87, Cl. 318-587.000.
Honjo, Yoshiaki; and Shioya, Masaharu, to Casio Computer Co., Ltd. Omnidirectional vehicle. 4,683,973, 8-4-87, Cl. 180-252.000.
Honjo, Yoshiaki, to Casio Computer Co., Ltd. Optical reading and displaying device. 4,685,147, 8-4-87, Cl. 382-66.000.
Honjoh, Akira: *See—*
  Mukai, Kazuo; Honjoh, Akira; and Nakata, Shuji, 4,656,790, Cl. 51-141.000.
Honkanen, George P.; Strahan, John C.; and Lichtman, Philip R., to Acufex Microsurgical, Inc. Surgical cannula. 4,655,752, 4-7-87, Cl. 604-256.000.
Honkanen, George P., to Acufex Microsurgical, Inc. Surgical instrument. 4,712,545, 12-15-87, Cl. 128-305.000.
Honkaniemi, Matti E.; Mustikka, Lauri A.; Jankkila, Martti J.; Hakanen, Pentti O.; Heikkila, Risto M.; and Lilja, Launo L., to Outokumpu Oy. Method and apparatus for batch preparation and feeding into the smelting process. 4,705,474, 11-10-87, Cl. 432-14.000.
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Honkomp, Glenn A.: *See—*
  Bowsky, Benjamin; Honkomp, Glenn A.; Burrows, Larry G.; and Wilson, Edward E., 4,702,976, Cl. 429-181.000.
  Bowsky, Benjamin; Honkomp, Glenn A.; Burrows, Larry G.; and Wilson, Edward E., 4,707,424, Cl. 429-181.000.
Honkura, Yoshinobu; Murata, Kouji; and Yokoyama, Takashi, to Aichi Steel Works, Ltd. Soft magnetic stainless steel. 4,705,581, 11-10-87, Cl. 148-307.000.
Honkura, Yoshinobu; Murata, Kouji; and Yokoyama, Takashi, to Aichi Steel Works, Ltd. Soft magnetic stainless steel for cold forging. 4,714,502, 12-22-87, Cl. 148-307.000.
Honma, Hideo; and Sato, Nobuyuki, to Sony Corporation. Portable tape player with radio in lid. 4,651,312, 3-17-87, Cl. 369-10.000.
Honma, Hidetoshi: *See—*
  Ochiai, Hajime; Morihara, Kenji; and Honma, Hidetoshi, 4,656,59 Cl. 364-424.000.
Honma, Hiroshi; and Narumiya, Junichi, to Hochiki Corporation. Photoelectric smoke sensor including a photosensing data correction ratio correction circuit. 4,695,734, 9-22-87, Cl. 250-573.000.
Honma, Hiroshi: *See—*
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Honma, Kazuo: *See—*
  Hosoda, Yuji; Honma, Kazuo; Fujie, Masakatsu; Iwamoto, Ta Kamejima, Kohji; and Nakano, Yoshiyuki, 4,709,342, Cl. 364-558.000.
  Hosoda, Yuji; Honma, Kazuo; and Fujie, Masakatsu, 4,715,657, Cl. 294-86.400.
  Tokairin, Hiroaki; Honma, Kazuo; Nakajima, Kichio; Nagasawa, Kiyoshi; and Aritake, Takeshi, 4,710,884, Cl. 364-513.000.
Honma, Kenji: *See—*
  Fujita, Haruyasu; Ogawa, Masao; and Honma, Kenji, 4,650,21 Cl. 280-772.000.
  Fujita, Haruyasu; Honma, Kenji; and Ogawa, Masao, 4,659,106, Cl. 280-772.000.
Honma, Masayuki, to Nissan Motor Co., Ltd. Overhead camshaft engine. 4,681,069, 7-21-87, Cl. 123-90.270.
Honma, Nobuyuki; and Shinozaki, Takashi, to Laurel Bank Machine Co., Ltd. Apparatus for arranging the obverse and reverse sides of bills or the like. 4,675,514, 6-23-87, Cl. 235-379.000.
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Honma, Noriyuki; Kitsukawa, Goro; and Suzuki, Makoto, to Hitachi, Ltd. Level converter circuit. 4,697,109, 9-29-87, Cl. 307-475.000.
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  Kitagishi, Tomoji; Sasaki, Akira; Hakoyama, Akiyoshi; Furukawa, Shigetaka; Suzaki, Masafumi; Kobayashi, Ryooichi; Mikami, Katsumasa; Takahashi, Yoshihito; Nagano, Yousuke; and Honma, Takeo, 4,707,708, Cl. 346-76.0PH.
Honma, Toshio, to Canon Kabushiki Kaisha. Copying apparatus. 4,640,603, 2-3-87, Cl. 355-3.00R.
Honma, Toshio; Nishida, Minoru; and Yamauchi, Kiyoshi, to Tohoku Metal Industries Ltd. Ti-Ni alloy articles having a property of reversible shape memory and a method of making the same. 4,707,196, 11-17-87, Cl. 148-12.70N.
Honma, Toshio: *See—*
  Shimizu, Katsuichi; Sakamaki, Hisashi; Furuichi, Katsushi; and Honma, Toshio, 4,685,796, Cl. 355-14.00R.
  Tanioka, Hiroshi; and Honma, Toshio, 4,711,558, Cl. 355-14.00R.
Honma, Yoshihiro; Kawamoto, Fumiaki; and Tanaka, Shozo, to Shin-Etsu Vinyl Acetate Co., Ltd. Method for dehydrating distillation of an aqueous solution of carboxylic acid. 4,661,208, 4-28-87, Cl. 203-15.000.
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  Ogasawara, Toshitaka; Nohmi, Kazumasa; Honmoh, Masao; and Iseki, Yukito, 4,695,763, Cl. 313-487.000.
Honmoto, Syuichi: *See—*
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Yoshieda, Keiichi; Sodeno, Toshiaki; and Honmoto, Syuichi, 4,633,580, Cl. 29-767.000.
Yoshieda, Keiichi; Sodeno, Toshiaki; and Honmoto, Syuichi, 4,655,662, Cl. 414-14.000.

nn, Kenneth V.: *See—*
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nna, Takaji: *See—*
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Ogawa, Kazuo; and Honna, Takaji, 4,714,765, Cl. 548-183.000.
Yamawaki, Ichiro; Ogawa, Kazuo; Ono, Naohiko; Honna, Takaji; Nagayama, Sekio; and Yasumoto, Mitsugi, 4,696,929, Cl. 514-253.000.

onny Chemicals Company Ltd.: *See—*
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one, Susumu; Okuda, Ichiro; Ishihara, Hiroshi; and Hori, Masahiko, to Mitsubishi Cable Industries, Ltd. Driver isolating circuit for common bus-type transmission of local area network. 4,685,113, 8-4-87, Cl. 375-7.000.

onore, Joel: *See—*
Germain, Jean-Luc; Janneteau, Eric; Loisy, Francois; and Honore, Joel, 4,688,627, Cl. 165-11.100.

onore, Tage: *See—*
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onroth, Walter: *See—*
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onryo, Hatsuo: *See—*
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onsa Technologies: *See—*
Honsa, Thomas S., 4,648,468, Cl. 173-139.000.

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onshu Chemical Ind. Co., Ltd.: *See—*
Matsunaga, Fujihisa; Kato, Eiji; Kimura, Tsuyoshi; and Isota, Yoichiro, 4,675,444, Cl. 564-403.000.

onshuseishi Kabushiki Kaisha: *See—*
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onty, Katalin: *See—*
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onzawa, Tadashi: *See—*
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Hood, Alan M.: *See—*
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Hood, Charles N., II, to AMSTED Industries Incorporated. Hunting control side bearing. 4,715,290, 12-29-87, Cl. 105-199.300.

Hood, Craig C.: *See—*
Hayes, Michael E.; Hood, Craig C.; Miller, Ronald E.; and Sharpe, Robert, 4,640,719, Cl. 134-40.000.

Hood, Delos W.: *See—*
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Hood, John: *See—*
Happ, Mathias; and Hood, John, 4,646,954, Cl. 225-2.000.

Hood, Larry L.; and Imonti, Maurice M., to CooperVision, Inc. Ultrasonic decoupling sleeve. 4,681,561, 7-21-87, Cl. 604-22.000.

Hood, Larry L.: *See—*
Steppe, Dennis L.; Hood, Larry L.; and Boggs, Gary D., 4,713,051, Cl. 604-30.000.

Hood, Leroy E.; Hunkapiller, Michael W.; Dreyer, William J.; Hewick, Rodney M.; and Stark, Anton W., to California Institute of Technology. Apparatus for the sequential performance of chemical processes. 4,704,256, 11-3-87, Cl. 422-68.000.

Hood, Oliver S.; McGrath, Brendan; and Myllarinen, Juha, to Nokia Limited. Towel dispenser. 4,676,559, 6-30-87, Cl. 312-39.000.

Hood, Paul F., to Stone Container Corporation. Protective containerboard. 4,711,702, 12-8-87, Cl. 162-123.000.

Hood, Rush W., Jr.: *See—*
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Hood, Sammy: *See—*
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Hoodless, Adrian H. W.: *See—*
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Hoof Products Co.: *See—*
Conlogue, James H.; and Banker, Henry, 4,690,115, Cl. 123-366.000.

Hoofnagle, Rodger A.; and Young, William S., to Amoco Corporation. Sand separation and removal method and apparatus. 4,673,500, 6-16-87, Cl. 210-307.000.

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Hoogendoorn, Abraham; and Kuchar, Franz, to U.S. Philips Corporation. System for reproducing information signals on a magnetic tape which incrementally adjusts, in a plurality of steps the speed of the magnetic tape and the positioning and rotational speed of the magnetic head upon a change of mode. 4,636,874, 1-13-87, Cl. 360-10.200.

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Hooghiemstra, Ferdinand M. H. F.: *See—*
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Hoogland, Jan: *See—*
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Hook, Christopher D.: *See—*
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Hook, James E.: *See—*
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Hook, Roy E.: *See—*
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Hook, Sidney J.; Tittler, Philip; and Walley, Gerald D., to British Aerospace PLC. Cabinet for electronic apparatus. 4,646,202, 2-24-87, Cl. 361-382.000.

Hooke, Anne M.: *See—*
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Hooker, Howard W.: *See—*
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Hooker, James R.; and Foss, Robert M., to Motorola, Inc. Method of producing polyurethane foams for low stress encapsulation. 4,696,776, 9-29-87, Cl. 264-46.400.

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Hoopengardner, Merle R., to Orcon Corporation. Baseplate construction for an iron used to face seam carpet with hot melt adhesive tape. 4,714,514, 12-22-87, Cl. 156-391.000.

Hooper, Anthony W.; Cormack, Alexander D.; and Marchand, Pierre, to Uniweld Inc. Bearing support for discharger mechanism. 4,642,015, 2-10-87, Cl. 414-325.000.

Hooper, Anthony W., to Uniweld Inc. Rotary screen of the vertical pressure type having pulp stock feed at different axial positions on the screen. 4,642,189, 2-10-87, Cl. 210-405.000.

Hooper, Anthony W., to Uniweld Inc. Rotary pulp screen of the horizontal type having pulp stock feed at different axial positions on the screen. 4,697,982, 10-6-87, Cl. 415-121.00G.

Hooper, Buddy D. Timing chain retractor and lock. 4,684,357, 8-4-87, Cl. 474-101.000.

Hooper, Charles L.: *See—*
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Hooper, Clarence R., Jr.; and Reed, Frederick E. Orthopedic appliance. 4,688,558, 8-25-87, Cl. 128-78.000.

Hooper, Donald F., to Digital Equipment Corporation. Groups of tag signals for data store in multi-plane set of buffers. 4,689,765, 8-25-87, Cl. 364-900.000.

Hooper, James D.; and Hooper, Ronald D. Delivery boot for pneumatic delivery systems for grain and/or granular fertilizer. 4,669,922, 6-2-87, Cl. 406-157.000.

Hooper, John D.: *See—*
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Hooper, Ronald D.: *See—*
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Hooper, Stanley W.; and Hooper, Charles L. Automobile windshield cover. 4,635,993, 1-13-87, Cl. 296-95.00C.

Hooper, William P.: *See—*
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Hoople, David W. T.: *See—*
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  Greengrass, Colin W.; Hoople, David W. T.; and Howarth, Thomas T., 4,684,642, Cl. 514-201.000.

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  Donaldson, Richard E.; and Hoops, John F., 4,701,541, Cl. 549-440.000.

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Hoormann, Ronald A., to Coin Acceptors, Inc. Coin sizing means and method. 4,646,904, 3-3-87, Cl. 194-334.000.

Hoornaert, Pierre: *See—*
  Angles, Michel; Hoornaert, Pierre; Audouin, Alain; Roques, Henri; Aurelle, Yves; and Lopez, Louis, 4,650,581, Cl. 210-398.000.

Hooton, Robert D., to Carrier Corporation. Method and apparatus for assembling a ring pipe arrangement. 4,706,365, 11-17-87, Cl. 29-520.000.

Hooven, Michael D., to Cordis Corporation. Three stage pressure regulator valve. 4,675,003, 6-23-87, Cl. 604-9.000.

Hooven, Michael D., to Cordis Corporation. Adjustable implantable valve having non-invasive position indicator. 4,676,772, 6-30-87, Cl. 604-9.000.

Hooven, Michael D., to Cordis Corporation. Plural valve three stage pressure relief system. 4,681,559, 7-21-87, Cl. 604-9.000.

Hooven, Michael D., to Cordis Corporation. Implantable servo valve having integral pressure sensor. 4,705,499, 11-10-87, Cl. 604-9.000.

Hooven, Michael D., to Cordis Corporation. Three stage valve with flexible valve seat. 4,714,458, 12-22-87, Cl. 604-9.000.

Hooven, Michael D., to Cordis Corporation. Three stage intracranial pressure control valve. 4,714,459, 12-22-87, Cl. 604-9.000.

Hoover, Alan A., to RCA Corporation. Projection TV deflection loss protection circuit. 4,642,532, 2-10-87, Cl. 315-386.000.

Hoover, Alan A., to RCA Corporation. Switching power supply with raster width stabilization. 4,692,852, 9-8-87, Cl. 363-21.000.

Hoover, Bobby R.; and Fanning, Roy G., to Tingle, Richard W. Convertible patio table. 4,647,107, 3-3-87, Cl. 297-124.000.

Hoover, Charles D.: *See—*
  Bowen, Terry P.; Glover, Douglas W.; Hoover, Charles D.; Huber, John H.; and Schaffer, Ronald R., 4,678,264, Cl. 350-96.200.

Hoover Company, The: *See—*
  Wareham, Richard A.; and Buchtel, Dean H., 4,707,169, Cl. 55-357.000.

Hoover, Dale H.; and Poole, Lynn A., to United States of America, Navy. Remote monitor unit. 4,653,034, 3-24-87, Cl. 367-131.000.

Hoover, Dennis J. Oxa- and azahomocyclostatine polypeptides. 4,668,769, 5-26-87, Cl. 530-331.000.

Hoover, Donald R., to CTB, Inc. Feeder for hogs and like animals. 4,676,197, 6-30-87, Cl. 119-52.0AF.

Hoover, Gary W.; Empson, Geuane; and Ashley, Bruce W. Noisemaking fishing lure. 4,712,326, 12-15-87, Cl. 43-42.310.

Hoover, Gregory A., to Sonoco Products Company. Bottle bag. 4,696,403, 9-29-87, Cl. 206-602.000.

Hoover Group, Inc.: *See—*
  Thomas, Larry D.; Waltke, David L.; and Gibson, Gary, 4,648,521, Cl. 220-1.500.

Hoover, John C., to Electromagnetic Sciences, Inc. Ridged waveguide to rectangular waveguide adaptor useful for feeding phased array antenna. 4,673,946, 6-16-87, Cl. 343-776.000.

Hoover, John C.; and Giese, David E., to Electromagnetic Sciences, Inc. Reduced height waveguide circulator. 4,697,158, 9-29-87, Cl. 333-1.100.

Hoover, Lawrence E.: *See—*
  McCurry, Thomas M.; and Hoover, Lawrence E., 4,666,749, Cl. 428-34.000.

Hoover, Lonnie D.: *See—*
  House, Roy F.; and Hoover, Lonnie D., 4,686,051, Cl. 252-8.551.

Hoover, M. Fred; and Guilbault, Lawrence J., to Morton Thiokol, Inc. Polymeric amine conditioning additives for hair care products. 4,713,236, 12-15-87, Cl. 424-70.000.

Hoover, Maurice W. Roasted honey coated nut product and method for making same. 4,647,463, 3-3-87, Cl. 426-291.000.

Hoover, Merwin F.; Salamone, Ann B.; and Vandebult, Jan, to Polyonics Corporation. Process for producing product having patterned metal layer. 4,666,735, 5-19-87, Cl. 427-43.100.

Hoover, Scott C.: *See—*
  Scholl, Charles H.; Hadzimihalis, Theo M.; and Hoover, Scott C., 4,667,850, Cl. 222-23.000.

Hoover, Sherwood A.: *See—*
  Sheets, Donald L.; Hoover, Sherwood A.; Hunt, Ronnie D.; and Burgers, Henri T., 4,655,530, Cl. 339-126.00R.

Hoover, Thomas C.: *See—*
  Regnier, Kent E.; Hoover, Thomas C.; and Walse, Alan S., 4,713,013, Cl. 439-62.000.

Hoover Universal, Inc.: *See—*
  Vail, Curtis F.; and Witzke, Duane W., 4,702,522, Cl. 297-452.000.

Hoover, Wilbur G.: *See—*
  Whalen, Charles E.; and Hoover, Wilbur G., 4,640,771, Cl. 210-167.000.

Hoover, William G., to Granger Associates. Dual mode antenna having simultaneous operating modes. 4,635,070, 1-6-87, Cl. 343-852.000.

Hooykaas, Carel W., to Pelt & Hooykaas B.V. Method of processing an iron-containing dust obtained in the preparation of iron or steel. 4,713,223, 12-15-87, Cl. 423-140.000.

Hope, Bjorn R., to Tanksystem A/S. Device for registration of level transition zones and temperature. 4,635,478, 1-13-87, Cl. 73-292.000.

Hope, Bjorn R. Arrangement for the distribution and/or extraction of signals. 4,675,674, 6-23-87, Cl. 340-870.130.

Hope, George P.: *See—*
  Sides, Richard J., Sr.; Crawford, Christopher L.; Nunweiler, Raymond J., Jr.; Muth, David L.; and Hope, George P., [illegible], Cl. 312-7.200.

Hope, Henry F.; Hope, Stephen F.; and Fidelman, David, to Hope Industries, Inc. Color printing control system and method. 4,657,378, 4-14-87, Cl. 355-38.000.

Hope Industries, Inc.: *See—*
  Hope, Henry F.; Hope, Stephen F.; and Fidelman, David, 4,657,378, Cl. 355-38.000.

Hope, Jimmie L. Door lock. 4,639,021, 1-27-87, Cl. 292-7.000.

Hope, Paul F., to Metal Bond (Technology) Limited. Reinforcing bar coupling system. 4,666,326, 5-19-87, Cl. 403-13.000.

Hope, Stephen F.: *See—*
  Hope, Henry F.; Hope, Stephen F.; and Fidelman, David, 4,657,378, Cl. 355-38.000.

HoPeC Enterprises, Inc.: *See—*
  Hogden, John D., Sr.; and Clelland, Charles M., 4,645,251, Cl. 294-19.100.

Hoper, Jens: *See—*
  Kessler, Manfred; and Hoper, Jens, 4,714,673, Cl. 435-14.000.

Hopewell, Richard B.: *See—*
  O'Brien, John V.; Holmes, Arthur S.; and Hopewell, Richard B., 4,681,612, Cl. 62-23.000.

Hopf, Wolfgang: *See—*
  Grenzebach, Kurt; and Hopf, Wolfgang, 4,661,657, Cl. 380-21.000.

Hopfenextraktion HVG Barth, Raiser & Co.: *See—*
  Forster, Adrian; and Gehrig, Manfred, 4,640,841, Cl. 426-425.000.

Hopfensperger, Reinhold; and Schmidt, Dieter, to International Standard Electric Corporation. Tangential blower. 4,662,818, 5-5-87, Cl. 415-119.000.

Hopfensperger, Reinhold, to Alcatel N.V. Tangential blower. 4,705,453, 11-10-87, Cl. 415-119.000.

Hopfensperger, Reinhold; and Taschner, Klaus, to Standard Elektrik Lorenz Aktiengesellschaft. Tangential blower. 4,712,976, 12-15-87, Cl. 415-54.000.

Hopfer, David M. Adjustable layout square. 4,697,351, 10-6-87, Cl. 33-420.000.

Hopfer, Roy L.: *See—*
  Lopez-Berestein, Gabriel; Fainstein, Victor; Hersh, Evan M.; Hopfer, Roy L.; Juliano, Rudolph L.; Mehta, Kapil; and Mehta, Reeta, 4,663,167, Cl. 514-37.000.

Hopfgartner, Johann; Hurka, Wilhelm; Grablowitz, Otto; and Kropp, Wolfgang, to ARCANA Chem. pharm. Fabrik Gesellschaft m.b.H. Process of producing a sustained release preparation containing indomethacin or niomethacin. 4,652,442, 3-24-87, Cl. 514-420.000.

Hopfield, John J., to Bell Telephone Laboratories, Incorporated; and California Institute of Technology. Electronic network for collective decision based on large number of connections between signals. 4,660,166, 4-21-87, Cl. 364-807.000.

Hopfner, Clemens, to Eastman Kodak Company. Focusing mechanism. 4,634,221, 1-6-87, Cl. 350-255.000.

Hopkins, Allen B.; and Dockx, John P., to Disc Technology Corporation. Magnetic disc handling system. 4,645,401, 2-24-87, Cl. 414-222.000.

Hopkins, Arthur J. Log holder. 4,676,490, 6-30-87, Cl. 269-53.000.

Hopkins, Daniel N., to Mobil Oil Corporation. Method and apparatus for determining crack initiation and propagation in metals. 4,711,131, 12-8-87, Cl. 73-799.000.

Hopkins, Daniel N.: *See—*
  Ehlers, D. M.; and Hopkins, Daniel N., 4,712,616, Cl. 166-266.000.

Hopkins, Delaney C.; and Thais, James W., to Caterpillar Inc. Conduit guarding and clamping device. 4,658,854, 4-21-87, Cl. 137-377.000.

Hopkins, Donn A.; and Niles, Raymond W., Jr., to Tandon Corporation. Magnetic disk memory head carriage assembly employing backlash-free rack and pinion drive mechanism. 4,654,737, 3-31-87, Cl. 360-106.000.

Hopkins, Evan L., to Hopkins Manufacturing Corporation. Method and apparatus for scraping ice and snow and illuminating a scraping area. 4,662,947, 5-5-87, Cl. 134-6.000.

Hopkins, F. Kenneth, to Angstrom Robotics & Technologies, Inc. Fluorescent object recognition system having self-modulated light source. 4,642,526, 2-10-87, Cl. 315-244.000.

Hopkins, Glen W.: *See—*
  Hu, Min-Hsiung; and Hopkins, Glen W., 4,704,994, Cl. 122-32.000.

opkins, Harland G.: *See—*
  Kade, Alexander; Hopkins, Harland G.; and Salman, Mutasim A., 4,664,453, Cl. 303-100.000.

opkins, Harry C. Power controller. 4,704,570, 11-3-87, Cl. 318-729.000.

opkins, Jeffrey A.; DiMartino, Stephen P.; and Nicholas, David M., to Air Products and Chemicals, Inc. Hybrid membrane/cryogenic process for hydrogen purification. 4,654,047, 3-31-87, Cl. 62-23.000.

opkins, John R.: *See—*
  Cozzens, Brian E.; Hopkins, John R., and Thakrar, Anil C., 4,645,285, Cl. 339-96.000.

opkins, Kenneth N. Fabricated tee. 4,653,952, 3-31-87, Cl. 403-233.000.

opkins Manufacturing Corporation: *See—*
  Hopkins, Evan L., 4,662,947, Cl. 134-6.000.

opkins, Martin E.: *See—*
  Auslander, Marc A.; Hopkins, Martin E.; and Markstein, Peter W., 4,642,764, Cl. 364-300.000.
  Chaitin, Gregory J.; Hopkins, Martin E.; Markstein, Peter W.; and Warren, Henry S., Jr., 4,656,582, Cl. 364-300.000.

opkins, Ronald J., to Westinghouse Electric Corp. Gauge plate for use in customizing a replacement upper core plate in a nuclear reactor, and method of using the gauge plate. 4,707,325, 11-17-87, Cl. 376-245.000.

opkins, T. Robert: *See—*
  Hayashi, Katsumi; Hopkins, T. Robert; and Scharf, Curtis R., 4,670,173, Cl. 252-51.50A.

opkins, Thomas M., II: *See—*
  Lampton, Robert D., Jr., and Hopkins, Thomas M., II, 4,683,076, Cl. 252-191.000.

opkins, Thomas R.: *See—*
  Fruthaler, Katherine J.; Hopkins, Thomas R.; Hitzman, Donald O.; Kubicek, Donald H.; and Kallenbach, Lyle R., 4,681,758, Cl. 424-78.000.

opkins, William M.; Bell, Perry W.; Carolla, Russell A.; Gerspacher, Jon A.; Shepler, Peter R.; and Wells, Thomas H., to Goodyear Tire & Rubber Company, The. Pneumatic tire. 4,688,617, 8-25-87, Cl. 152-554.000.

opkinson, James F.; and Nambu, Kyojiro, to Kabushiki Kaisha Toshiba. Tomographic apparatus. 4,707,822, 11-17-87, Cl. 364-414.000.

opp, Rudolf: *See—*
  Bruning, Jurgen; Emberger, Roland; Hopp, Rudolf; Kopsel, Manfred; Sand, Theodor; and Werkhoff, Peter, 4,647,662, Cl. 544-5.000.
  Bruning, Jurgen; Emberger, Roland; Hopp, Rudolf; and Sand, Theodor, 4,710,392, Cl. 426-534.000.
  Emberger, Roland; Kopsel, Manfred; Bruning, Jurgen; Hopp, Rudolf; and Sand, Theodor, 4,654,168, Cl. 252-522.00R.
  Nienhaus, Jurgen; and Hopp, Rudolf, 4,664,755, Cl. 203-59.000.

opp, Thomas P.; Bektesh, Susan L.; Conlon, Paul J., III; and March, Carl J., to Immunex Corporation. Synthesis of protein with an identification peptide. 4,703,004, 10-27-87, Cl. 435-68.000.

Hoppe, Edward A.: *See—*
  Brunn, Frederick A.; Hoppe, Edward A.; and Volpini, Paul M., 4,704,518, Cl. 235-480.000.

Hoppe, Hans; Heep, Dieter; Eberhard, Norbert; and Miller, Werner, to Waeschle Maschinenfabrik GmbH. Pneumatic transport conveyor. 4,715,749, 12-29-87, Cl. 406-14.000.

Hoppe, Hans: *See—*
  Krambrock, Wolfgang; and Hoppe, Hans, 4,715,951, Cl. 209-138.000.

Hoppe, Hans-Ullrich: *See—*
  Schlingmann, Merten; Hoppe, Hans-Ullrich; and Dursch, Walter, 4,709,086, Cl. 560-171.000.

Hoppe, Joachim: *See—*
  Haghiri-Tehrani, Yahya; and Hoppe, Joachim, 4,639,585, Cl. 235-492.000.
  Haghiri-Tehrani, Yahya; and Hoppe, Joachim, 4,709,254, Cl. 357-72.000.

Hoppe, Kurt, to Hein, Lehmann AG. Drum screening machine. 4,636,304, 1-13-87, Cl. 209-287.000.

Hoppe, Lutz; and Reinhardt, Eugen, to Wolff Walsrode Aktiengesellschaft. Adhesive solutions, more especially for water-activatable adhesive coatings on wallpapers. 4,714,723, 12-22-87, Cl. 524-42.000.

Hoppe, Lutz: *See—*
  Luhmann, Erhard; and Hoppe, Lutz, 4,659,387, Cl. 106-195.000.

Hoppe, Manfred: *See—*
  Schmid, Eduard; and Hoppe, Manfred, 4,647,630, Cl. 525-431.000.

Hoppe, Martin: *See—*
  Heitmann, Knut; Hoppe, Martin; Schneider, Eckhard; and Thaer, Andreas, 4,672,012, Cl. 430-3.000.

Hoppe, Wolfgang: *See—*
  Beckmann, Friedrich K.; Dotsch, Horst; and Hoppe, Wolfgang, 4,702,557, Cl. 350-330.000.
  Beckmann, Friedrich-Karl; Hoppe, Wolfgang; and Knochel, Reinhard, 4,708,471, Cl. 336-73.100.

Hopper, Hans P., to British Petroleum Company p.l.c. Template levelling device. 4,684,291, 8-4-87, Cl. 405-190.000.

Hopper, Laurence E.: *See—*
  Cosson, Colin, and Hopper, Laurence E., 4,640,188, Cl. 101-39.000.

Hopper, Michael J.: *See—*
  Rogers, John H.; Hopper, Michael J.; and Martin, Michael R., 4,659,523, Cl. 264-1.300.

Hopper, Roger J.; and Parks, Carl R., to Goodyear Tire & Rubber Company, The. Cyanamide derivatives as vulcanization rate modifiers. 4,714,742, 12-22-87, Cl. 525-346.000.

Hopper, Steven P.: *See—*
  King, Roswell E., III; Kanner, Bernard; Hopper, Steven P.; and Schilling, Curtis L., Jr., 4,675,424, Cl. 556-412.000.

Hopper, Thomas P., to Kalwall Corp. Method of joining curvilinear structual insulating panels and the like and improved joined panel structure. 4,642,949, 2-17-87, Cl. 52-80.000.

Hoppestad, Lamont L.; and Blanos, George A. Article support rack. 4,671,206, 6-9-87, Cl. 118-428.000.

Hoppie, Lyle O.; Chute, Richard; Scharnweber, David H.; and Waichunas, Kenneth P., to Eaton Corporation. Apparatus and method for compressive heating of fuel to achieve hypergolic combustion. 4,644,925, 2-24-87, Cl. 123-558.000.

Hoppie, Lyle O., to Eaton Corporation. Method and apparatus for achieving hypergolic combustion by partial catalytic combustion. 4,651,703, 3-24-87, Cl. 123-551.000.

Hoppie, Lyle O.; Chute, Richard; Scharnweber, David H.; and Waichunas, Kenneth P., to Eaton Corporation. Regenerative fuel heating apparatus and method for hypergolic combustion. 4,669,433, 6-2-87, Cl. 123-276.000.

Hoppie, Lyle O.; Chute, Richard; Scharnweber, David H.; and Waichunas, Kenneth P., to Eaton Corporation. Method and apparatus for multiphasic pretreatment of fuel to achieve hypergolic combustion. 4,672,938, 6-16-87, Cl. 123-538.000.

Hoppie, Lyle O., to Eaton Corporation. Method and apparatus for maximizing internal combustion engine work output by controlled heat release. 4,691,682, 9-8-87, Cl. 123-558.000.

Hoppie, Lyle O.: *See—*
  Schachameyer, Steven R.; Benjamin, James A.; Pardee, John B.; and Hoppie, Lyle O., 4,655,849, Cl. 148-1.500.
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  Schachameyer, Steven R.; Benjamin, James A.; Pardee, John B.; and Hoppie, Lyle O., 4,670,063, Cl. 148-1.500.
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  Schachameyer, Steven R.; Benjamin, James A.; Pardee, John B.; and Hoppie, Lyle O., 4,685,976, Cl. 437-173.000.

Hoppmanns, Rolf D.; Steup, Walter; Wieczorek, Willibald; and Beitler, Franz, to U.S. Philips Corporation. Loading mechanism for a magnetic tape cassette apparatus. 4,639,801, 1-27-87, Cl. 360-96.500.

Hoppner, Klaus; Tilders, Benno; Wehle, Anton; and Wolf, Gunter, to Andreas Stihl. Motor-driven chain saw with a clutch and oil pump. 4,662,071, 5-5-87, Cl. 30-381.000.

Hoppner, Klaus; and Kiefel, Bernhard, to Andreas Stihl. Arrangement for controlling the intake air for the carburetor of a hand-held portable tool. 4,691,681, 9-8-87, Cl. 123-556.000.

Hoppough, John M. Ventilator unit exhalation contamination control device. 4,653,493, 3-31-87, Cl. 128-202.220.

Hopson, Eric C., to Metal Box p.l.c. Methods and apparatus for removing labels or carriers from containers. 4,661,195, 4-28-87, Cl. 156-344.000.

Hopta, Daniel F., to Storage Technology Corporation. Output driver circuit for LSI and VLSI ECL chips with an active pulldown. 4,680,480, 7-14-87, Cl. 307-270.000.

Hopwood, Francis W.; Caldwell, Stephen P.; and Decker, Martin J., to United States of America, Air Force. Wide-band phase locked loop amplifier apparatus. 4,639,688, 1-27-87, Cl. 331-10.000.

Hopwood, Howard R.; Lewis, Sylvia A.; and Walker, Peter C., to Ciba-Geigy AG. Carton for film cassettes. 4,643,315, 2-17-87, Cl. 206-620.000.

Hoque, Zahirul; and Oka, Akihiro, to NCR Canada Ltd - NCR Canada Ltee. Method and system for finding image data associated with the monetary amount on financial documents. 4,685,141, 8-4-87, Cl. 382-7.000.

Horais, Alan W. Catamaran with a steerable centerboard apparatus and an improved deck joint. 4,715,306, 12-29-87, Cl. 114-61.000.

Horak, Jiri: *See—*
  Tlustakova, Marie; Horak, Jiri; Vavrouch, Josef; Kulisek, Jiri; and Kalal, Jaroslav, 4,634,604, Cl. 427-213.330.

Horan, James L.: *See—*
  Tauber, Thomas E.; and Horan, James L., 4,707,165, Cl. 55-204.000.

Horan, Michael J., to Professional Video Association, Inc. Elimination draw poker game. 4,648,604, 3-10-87, Cl. 273-292.000.

Horan, William J.; and Schweid, Jeffrey M., to General Foods Corporation. Emulsification system for creamy cheese food products. 4,713,255, 12-15-87, Cl. 426-589.000.

Horbachewski, David M.: *See—*
  Chu, Arthur S.; Bart, Edward F.; Cook, George R.; and Horbachewski, David M., 4,664,774, Cl. 208-6.000.

Horbaschek, Heinz, to Siemens Aktiengesellschaft. Stereoscopic x-ray tube. 4,712,226, 12-8-87, Cl. 378-134.000.

Horbelt, Michael: *See—*
  Arnold, Herbert; Bosch, Walter; Horbelt, Michael; Maisch, Wolfgang; Nusser, Hermann; Peters, Klaus-Jurgen; Werner, Peter; and Willke, Clemens, 4,693,111, Cl. 73-118.100.
  Arnold, Herbert; Horbelt, Michael; and Jundt, Werner, 4,713,812, Cl. 371-10.000.

Horber, Ralph W., to Seiberco Incorporated. Polyphase DC motor with sensor poles. 4,687,961, 8-18-87, Cl. 310-186.000.

Horber, Ralph W., to Sigma Instruments, Inc. Magnetically assisted stepping motor. 4,712,028, 12-8-87, Cl. 310-49.00R.

Hordijk, Jan: *See—*
  van Asselt, Peter A.; and Hordijk, Jan, 4,671,652, Cl. 356-66.000.

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Svoboda, Daniel; Hordinski, Steven; Severns, Dale R.; and Hooker, Howard W., 4,634,330, Cl. 414-198.000.

Hordonneau, Alain: *See—*

Minjolle, Louis; Drouet, Claudette; Hordonneau, Alain; and Capdepuy, Bernard, 4,696,710, Cl. 156-89.000.

Horecker, Bernard L., to Hoffmann-La Roche Inc. Prothymosin alpha. 4,659,694, 4-21-87, Cl. 514-12.000.

Horecker, Bernard L., to Hoffmann-La Roche Inc. Parathymosin alpha. 4,696,915, 9-29-87, Cl. 514-21.000.

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Horecky, Carl J.: *See—*

Cartmell, Robert R.; and Horecky, Carl J., 4,711,766, Cl. 422-140.000.

Horenkamp, Franz, to Ferdinand Lusch GmbH & Co. KG. Convertible sitting/reclining furniture article. 4,672,696, 6-16-87, Cl. 5-17.000.

Horenkamp, Franz, to Ferdinand Lusch GmbH & Co. KG. Height-adjustable fitting for furniture. 4,690,358, 9-1-87, Cl. 248-297.300.

Horgan, Anthony M.; LaFrance, Alfred T.; Wieloch, Francis J.; and Yu, Robert C. U., to Xerox Corporation. Electrostatographic imaging members. 4,664,995, 5-12-87, Cl. 430-59.000.

Horgan, Anthony M.: *See—*

Tokoli, Emery G.; and Horgan, Anthony M., 4,665,000, Cl. 430-85.000.

Yu, Robert C. U.; Horgan, Anthony M.; and Wieloch, Francis J., 4,654,284, Cl. 430-59.000.

Horgan, John J., to United Technologies Corporation. Gas turbine outlet arrangement. 4,696,159, 9-29-87, Cl. 60-226.100.

Horgan, William J., Jr., to Blumcraft of Pittsburgh. Door shoe assembly. 4,680,903, 7-21-87, Cl. 52-127.800.

Horgan, William J., Jr., to Blumcraft of Pittsburgh. Deadbolt lock mechanism. 4,688,406, 8-25-87, Cl. 70-100.000.

Horgan, William J., Jr., to Blumcraft of Pittsburgh. Latch actuating door handles. 4,711,480, 12-8-87, Cl. 292-336.300.

Hori, Fumihasa, to Alps Electric Co., Ltd. Printer with paper feed roller disengagement mechanism. 4,715,737, 12-29-87, Cl. 400-569.000.

Hori, Fumihisa, to Alps Electric Co., Ltd. Printing mechanism having one electromagnetic selector for two type rings. 4,706,562, 11-17-87, Cl. 101-93.220.

Hori, Fumihisa, to Alps Electric Co., Ltd. Type selection mechanism for a printer. 4,715,277, 12-29-87, Cl. 101-93.280.

Hori Glass Co., Ltd.: *See—*

Ichinohe, Kazuhiro, 4,663,901, Cl. 52-127.300.

Hori, Hideo: *See—*

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Hori, Hirokazu: *See—*

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Hori, Hiroshi; and Taniyama, Kiyoshi, to Toyota Jidosha Kabushiki Kaisha. Lubrication mechanism in final drive and differential units. 4,656,885, 4-14-87, Cl. 74-467.000.

Hori, Hiroshi: *See—*

Taniyama, Kiyoshi; and Hori, Hiroshi, 4,677,871, Cl. 74-467.000.

Yasui, Yasuyoshi; and Hori, Hiroshi, 4,658,670, Cl. 74-710.000.

Hori, Ichiroh: *See—*

Akiyoshi, Mitsuo; Hirai, Kazumi; Mitsumoto, Yoshio; and Hori, Ichiroh, 4,675,507, Cl. 219-406.000.

Hori, Katsumi, to Plus Corporation. Paper binding machine. 4,674,732, 6-23-87, Cl. 270-53.000.

Hori, Katsuya; and Fujita, Masahiro, to Sony Corporation. Digital circuit for correcting phase shift of digital signal. 4,689,626, 8-25-87, Cl. 342-357.000.

Hori, Katsuya: *See—*

Furuya, Tsuneo; and Hori, Katsuya, 4,644,544, Cl. 371-37.000.

Hori, Kazumasa: *See—*

Sonoda, Noboru; Hosoda, Naoyuki; and Hori, Kazumasa, 4,663,141, Cl. 423-510.000.

Hori, Keiichi, to Elm Company Ltd. Cassette-type printing head with perforated film member. 4,679,058, 7-7-87, Cl. 346-140.00R.

Hori, Keiichi: *See—*

Akatsu, Makoto; and Hori, Keiichi, 4,690,618, Cl. 417-226.000.

Hori, Kenjiro: *See—*

Seto, Kaoru; Ushio, Yukihide; Hori, Kenjiro; Hashimoto, Hiroshi; Yoshimoto, Toshio; and Kanaiwa, Kiyoshi, 4,712,118, Cl. 346-108.000.

Hori, Kimihiko; Nakamura, Koichi; and Takaishi, Naotake, to Kao Corporation. Process for preparing 2-carboxydibenzoylmethanes. 4,670,585, 6-2-87, Cl. 562-459.000.

Hori, Kimihiko: *See—*

Nakamura, Koichi; Hori, Kimihiko; Hattori, Michihiro; Tejima, Toru; Imokawa, Genji; and Takaishi, Naotake, 4,704,473, Cl. 562-463.000.

Takaishi, Naotake; and Hori, Kimihiko, 4,698,435, Cl. 549-305.000.

Hori, Kouichi: *See—*

Takabayashi, Kuniaki; Takaoka, Yoshitsugu; Hori, Kouichi; Shimotakahara, Masaki; Okada, Kikujiro; and Shiino, Satoru, 4,710,161, Cl. 494-84.000.

Hori, Kozo: *See—*

Takeuchi, Yoshio; Koizumi, Toru; and Hori, Kozo, 4,713,469, Cl. 560-17.000.

Hori, Makoto; Nomura, Etsuji; Niwa, Hitoshi; Mukai, Hirokatsu; and Tanaka, Toshiaki, to Nippondenso Co., Ltd.; and Toyota Jidosha Kabushiki Kaisha. Intake air heating apparatus. 4,667,644, 5-26-87, Cl. 123-549.000.

Hori, Makoto; Nagaya, Toshiatsu; Mukai, Hirokatsu; Niwa, Hitoshi; and Miwa, Naoto, to Nippondenso Co., Ltd. Self-temperature controlling type heating device. 4,716,279, 12-29-87, Cl. 219-541.000.

Hori, Makoto: *See—*

Shinohara, Yoshihiro; Oizumi, Kiyoshi; Itoh, Yasuhiko; and Hori, Makoto, 4,658,892, Cl. 165-133.000.

Tanaka, Toshiaki; Niwa, Hitoshi; Mukai, Hirokatsu; Miwa, Naoto; Nara, Akio; Nomura, Etsuji; Hori, Makoto; Hasegawa, Koichi; and Noguchi, Hiroshi, 4,685,437, Cl. 123-549.000.

Hori, Masaaki, to Brother Kogyo Kabushiki Kaisha. Apparatus for controlling the carriage of a printer. 4,678,979, 7-7-87, Cl. 318-696.000.

Hori, Masahiko: *See—*

Hono, Susumu; Okuda, Ichiro; Ishihara, Hiroshi; and Hori, Masahiko, 4,685,113, Cl. 375-7.000.

Hori, Masao: *See—*

Tsutsumi, Teruo; and Hori, Masao, 4,635,357, Cl. 29-850.000.

Hori, Mikio: *See—*

Koda, Akihide; Hori, Mikio; Yasumoto, Mitsugi; Matsuura, Naosuke; Yamawaki, Ichiro; and Tada, Yukio, 4,670,583, Cl. 562-426.000.

Hori, Nobuo; Yokokura, Takashi; and Ohtomo, Fumio, to Tokyo Kagaku Kikai Kabushiki Kaisha. Inclination measuring instrument. 4,660,290, 4-28-87, Cl. 33-366.000.

Hori, Nobuo: *See—*

Ohtomo, Fumio; Hori, Nobuo; Horikawa, Yoshio; Kimura, Kazuaki; and Sugai, Hiroo, 4,692,023, Cl. 356-5.000.

Hori, Roy Y.: *See—*

Webb, John D., Jr.; Hori, Roy Y.; and Simpson, George E., 4,714,470, Cl. 623-18.000.

Hori, Ryoichi; and Ito, Kiyoo, to Hitachi, Ltd. Monolithic storage device. 4,686,650, 8-11-87, Cl. 365-189.000.

Hori, Ryoichi; and Itoh, Kiyoo, to Hitachi, Ltd. Semiconductor device having an arrangement for preventing operational errors. 4,691,304, 9-1-87, Cl. 365-226.000.

Hori, Ryoichi; Itoh, Kiyoo; and Etoh, Jun, to Hitachi, Ltd. Pulse drive circuit. 4,716,313, 12-29-87, Cl. 307-475.000.

Hori, Ryoichi: *See—*

Itoh, Kiyoo; and Hori, Ryoichi, 4,675,845, Cl. 365-51.000.

Kimura, Katsutaka; Hori, Ryoichi; Ito, Kiyoo; and Sunami, Hideo, 4,641,279, Cl. 365-149.000.

Hori, Ryuzou: *See—*

Egami, Tsuneyuki; Saito, Tsutomu; Ando, Mitosi; Hori, Ryuzou; Kamo, Takashi; and Yoshida, Kazunori, 4,636,648, Cl. 250-571.000.

Egami, Tsuneyuki; Saito, Tsutomu; Ando, Mitosi; Hori, Ryuzou; Kamo, Takashi; and Yoshida, Kazunori, 4,682,041, Cl. 250-571.000.

Hori, Saburo; and Watanabe, Nobuhiro, to Kureha Chemical Industry Co., Ltd. Composite abrasive particles for magnetic abrasive polishing and process for preparing the same. 4,685,937, 8-11-87, Cl. 51-309.000.

Hori, Saburo: *See—*

Kurita, Ryuichi; and Hori, Saburo, 4,665,040, Cl. 501-105.000.

Hori, Seiji: *See—*

Fukuyama, Takahiko; Hori, Seiji; Ota, Yoshihiro; and Hayashi, Yoshikazu, 4,692,573, Cl. 200-50.00C.

Hori, Shinichi: *See—*

- Otsuki, Hiromi; Matsuura, Ryoichi; Fujinami, Hiroshi; Hori, Shinichi; Nomura, Yoshihisa; and Oka, Hiroyuki, 4,685,749, Cl. 303-116.000.

Tsuru, Naohiko; Matsuura, Ryoichi; Otsuki, Hiromi; Fujinami, Hiroshi; Hori, Shinichi; Nomura, Yoshihisa; and Oka, Hiroyuki, 4,636,009, Cl. 303-93.000.

Hori, Tadashi: *See—*

Maeda, Hideo; Hori, Tadashi; and Tani, Tatsuya, 4,669,534, Cl. 165-59.000.

Hori, Takako; Myokan, Isao; and Miyabara, Shinji, to Toyama Chemical Co., Ltd. Novel 5-fluoro-2-deoxyuridine derivatives and salts thereof, process for producing the same, and antitumor agents containing the same. 4,684,631, 8-4-87, Cl. 514-51.000.

Hori, Takamasa: *See—*

Hokari, Sadao; Hori, Takamasa; Komuro, Katsu; Hatakeyama, Takanobu; Narita, Toshiroo; Katayama, Yasunori; and Arahori, Noboru, 4,661,757, Cl. 318-798.000.

Ibamoto, Masahiko; Hori, Takamasa; Asano, Hideki; and Yokota, Hajime, 4,672,197, Cl. 250-227.000.

Tashiro, Korefumi; Saito, Kunio; Sato, Hiroshi; and Hori, Takamasa, 4,651,317, Cl. 370-86.000.

Hori, Tomoshige; and Itoh, Kensuke, to Snow Brand Milk Products Co., Ltd. Method for automatic measurement and control in curd making process. 4,663,169, 5-5-87, Cl. 426-38.000.

Hori, Toshimitsu; and Sumita, Mitsutaka, to Mitsubishi Denki Kabushiki Kaisha. Wire electrode type electrical discharge machining method. 4,644,124, 2-17-87, Cl. 219-69.00M.

Hori, Toshio: *See—*

Sakamoto, Yukio; Tanaka, Tetsuo; and Hori, Toshio, 4,700,155, Cl. 333-182.000.

Hori, Yasuaki; and Kishima, Masayoshi, to Nissan Motor Company Limited; and Ohi Seisakusho Co., Ltd. Hinge structure for vehicle. 4,701,977, 10-27-87, Cl. 16-266.000.

Hori, Yasuhiko: *See—*

Johnston, William D.; Hori, Yasuhiko; Nagata, Masanori; and Imano, Shigeki, 4,654,240, Cl. 428-35.000.

- Johnston, William D.; Czuba, Leonard; Webster, R. D.; Hori, Yasuhiko; Nagata, Masanori, and Imano, Shigeki, 4,686,125, Cl. 428-35.000.
- Johnston, William D.; Czuba, Leonard; Webster, R. D.; Hori, Yasuhiko; Nagata, Masanori; and Imano, Shigeki, 4,692,361, Cl. 428-35.000.

ri, Yasuro: *See*—
- Kojima, Yasuyuki; Hamada, Nagaharu; and Hori, Yasuro, 4,649,401, Cl. 346-76.0PH.
- Umeda, Takao; Ooishi, Kazuya; Igawa, Tatsuo; and Hori, Yasuro, 4,712,876, Cl. 350-350.00S

ri, Yoshiaki: *See*—
- Muto, Osamu; Masumura, Masanori; and Hori, Yoshiaki, 4,713,979, Cl. 74-337.500.
- Ogawa, Yutaka; Ogasawara, Takayuki; and Hori, Yoshiaki, 4,638,683, Cl. 74-567.000.

ri, Yoshihiro: *See*—
- Miyagi, Tokuya; Inoue, Akihisa; Hamada, Katushi; Fujimori, Shoichi; and Hori, Yoshihiro, 4,663,041, Cl. 210-493.200.

riai, Kunio: *See*—
- Watanabe, Kinichiro; Horiai, Kunio; Mashiko, Tomoyuki; Kato, Hitoshi; Yamaguchi, Hiromasa; and Nishiyama, Toshihiko, 4,679,992, Cl. 417-364.000.

oriba Instruments Incorporated: *See*—
- D'Angelo, Severino; and Kinne, Robert G., 4,688,419, Cl. 73-117.000.
- D'Angelo, Severino, 4,706,507, Cl. 73-862.080.
- Lewis, Gary W., 4,660,408, Cl. 73-28.000.

oriba, Isao; Iwata, Akira; Suzumura, Nobuo; and Matsuo, Hiroshi, to Hitachi Medical Corporation. Method of and apparatus for reconstructing shape of interested part of object through irradiation with X-rays. 4,672,651, 6-9-87, Cl. 378-62.000.

oriba, Isao; and Ishikawa, Ken, to Hitachi Medical Corp. Digital filter for processing two-dimensional digital image. 4,682,301, 7-21-87, Cl. 364-724.000.

oriba, Ltd.: *See*—
- Aoki, Junji; and Kojima, Kenaosuke, 4,662,755, Cl. 356-414.000.
- Fujita, Isao; and Shirai, Takashi, 4,659,451, Cl. 204-435.000.
- Kawarabayashi, Shigeyuki, 4,656,576, Cl. 364-148.000.
- Kumakura, Koichi; and Hosokawa, Yoshinori, 4,691,793, Cl. 177-50.000.
- Kumakura, Koichi; Ryuzono, Akira; and Hosokawa, Yoshinori, 4,692,935, Cl. 378-49.000.
- Miyatake, Kimio; and Satake, Tsukasa, 4,667,105, Cl. 250-338.000.
- Saito, Mitsunori, 4,652,288, Cl. 65-3.110.
- Tanaka, Masaru; Hara, Kiyoaki; and Yokoyama, Issei, 4,662,748, Cl. 356-317.000.
- Tsuji, Katsuya; Tanimoto, Masahiro; Hirano, Akihiro; and Yamada, Takeshi, 4,705,669, Cl. 422-93.000.
- Yoneda, Aritoshi, 4,673,812, Cl. 250-252.100.

oriba, Tatsuo: *See*—
- Takeuchi, Seizi; Kamo, Tomoichi; Horiba, Tatsuo; Kitami, Kunko; Mori, Toshikatsu; Kahara, Toshiki; Imahashi, Jinichi; Honji, Akio; Takeuchi, Masato; and Tamura, Kohki, 4,643,957, Cl. 429-41.000.

oribe, Hiroyuki: *See*—
- Yukawa, Hideki; and Horibe, Hiroyuki, 4,651,706, Cl. 123-651.000.

oribe, Kiyoshi: *See*—
- Ito, Toshkazu; Komathuzaki, Kiyomi; Chonan, Kenichi; and Horibe, Kiyoshi, 4,669,361, Cl. 91-459.000.

oribe, Takashi: *See*—
- Daigo, Yasuhito; Horibe, Takashi; Inage, Kengo; Naruse, Shigeyasu; Nara, Takashi; Okamoto, Yoshizo; and Yamamoto, Hironobu, 4,659,384, Cl. 106-35.000.

oribe, Yasutaka: *See*—
- Takubo, Yoneharu; Horibe, Yasutaka; and Yamanishi, Nobue, 4,697,889, Cl. 350-392.000.

oribe, Youshun; Ohshima, Yoshikuni; and Masuda, Toyohiko, to Hitachi, Ltd. System for recovering drain. 4,637,350, 1-20-87, Cl. 122-441.000.

oricke, Hans-Werner: *See*—
- Kotitschke, Gerhard; and Horicke, Hans-Werner, 4,677,763, Cl. 34-116.000.
- Kotitschke, Gerhard; and Horicke, Hans-Werner, 4,698,918, Cl. 34-116.000.

orie, Akira; and Tsuboi, Takashi, to Hitachi, Ltd. Method and apparatus for controlling reverse-conducting GTO thyristor. 4,644,240, 2-17-87, Cl. 318-768.000.

orie, Akira; and Okamatsu, Shigetoshi, to Hitachi, Ltd. Guard system for inverter apparatus. 4,672,525, 6-9-87, Cl. 363-58.000.

orie, Fujio, to Brother Kogyo Kabushiki Kaisha. Feed device for a sewing machine. 4,696,247, 9-29-87, Cl. 112-315.000.

orie, Hiromichi: *See*—
- Ochiai, Kumi; Horie, Hiromichi; Arima, Itsuo; Morita, Mikio; and Kamohara, Hisato, 4,696,725, Cl. 252-62.540.

Horie, Kiyoshi; Noami, Tsuneo; Masuda, Koji; Saitoh, Koichi; Maruyama, Kazuo; Fujimura, Yoshihiko; Suemitsu, Yuji; and Yamamoto, Toshiro, to Fuji Xerox Co., Ltd. Process for developing and transferring magnetic toner images. 4,653,896, 3-31-87, Cl. 355-3.0DD.

Horie Metal Co., Ltd.: *See*—
- Ito, Takaaki; Mori, Eiji; Uranishi, Koji; Miyazaki, Shinji; and Sugimoto, Junichi, 4,715,509, Cl. 220-86.00R.

Horie, Michihiko: *See*—
- Tsuruno, Masayoshi; and Horie, Michihiko, 4,702,019, Cl. 34-168.000.

Horie, Motonobu; Shimizu, Teruo; and Obara, Kouichiro, to Japan Tobacco Inc. Machine for manufacturing filter-tipped cigarettes. 4,644,961, 2-24-87, Cl. 131-94.000.

Horie, Naoki: *See*—
- Ando, Noriyoshi; Mikuni, Hajime; Matsunaga, Mitsuru; Horie, Naoki; and Kishigami, Tomohisa, 4,682,228, Cl. 358-161.000.

Horie, Noboru: *See*—
- Watanabe, Toshinori; Masuishi, Tetsuya; Sasaki, Koji; Haruna, Koichi; and Horie, Noboru, 4,651,284, Cl. 364-491.000.

Horie, Nobuyuki; Sakamoto, Noriaki; Fujikawa, Toshiaki; and Yamanaka, Toshihiro, to Sharp Kabushiki Kaisha. Floppy disk drive with stand-by mode. 4,635,145, 1-6-87, Cl. 360-78.000.

Horie, Seiji: *See*—
- Kawamura, Kouichi; Aotani, Yoshimasa; Umehara, Akira; and Horie, Seiji, 4,636,459, Cl. 430-288.000.

Horie, Shinji; and Kakizaki, Tetsuji, to Mitsubishi Petrochemical Co., Ltd. Amine-modified wax. 4,659,796, 4-21-87, Cl. 526-310.000.

Horie, Shinji, to Mitsubishi Petrochemical Company Limited. Colored resin composition. 4,713,310, 12-15-87, Cl. 430-109.000.

Horie, Shoichi: *See*—
- Akashi, Hiroyuki; Inoue, Takeshi; and Horie, Shoichi, 4,713,474, Cl. 560-66.000.

Horie, Toshiki: *See*—
- Naohara, Junsuke; Horie, Toshiki; and Kino, Toru, 4,674,976, Cl. 432-11.000.

Horie, Tsuneo: *See*—
- Okazaki, Atsushi; Igarashi, Masahiko; and Horie, Tsuneo, 4,712,084, Cl. 338-184.000.

Horigome, Hidekazu; Onishi, Takahiro; and Yamagishi, Makoto, to Nippon Kokan Kabushiki Kaisha. Method and apparatus for detecting leaks in a gas pipe line. 4,651,559, 3-24-87, Cl. 73-40.50R.

Horigome, Shinkichi: *See*—
- Tajima, Tetsuo; Miwa, Hiroaki; Sudo, Ryoichi; and Horigome, Shinkichi, 4,668,550, Cl. 428-65.000.
- Terao, Motoyasu; Miyauchi, Yasushi; Shigematsu, Kazuo; and Horigome, Shinkichi, 4,637,976, Cl. 430-523.000.
- Terao, Motoyasu; Nishida, Tetsuya; Ohta, Yasuhiro; Horigome, Shinkichi; and Miyauchi, Yasushi, 4,668,573, Cl. 428-336.000.

Horiguchi, Akira: *See*—
- Morizumi, Hirokazu; Horiguchi, Akira; and Sasaki, Isao, 4,707,403, Cl. 428-328.000.
- Shikama, Toshihiro; Ota, Takahisa; Ishizaka, Michihiro; Kira, Hirofumi; Horiguchi, Akira; and Kooi, Yuji, 4,685,105, Cl. 370-86.000.

Horiguchi, Fumio, to Kabushiki Kaisha Toshiba. High-density semiconductor memory device with charge-coupling memory cells. 4,641,280, 2-3-87, Cl. 365-183.000.

Horiguchi, Masahi: *See*—
- Aoki, Masakazu; Nakagome, Yoshinobu; Horiguchi, Masahi; Ozaki, Toshifumi; Shimohigashi, Katsuhiro; and Ikenaga, Shinichi, 4,636,985, Cl. 365-189.000.

Horiguchi, Masashi: *See*—
- Aoki, Masakazu; Nakagome, Yoshinobu; Horiguchi, Masashi; Ikenaga, Shinichi; and Shimohigashi, Katsuhiro, 4,661,929, Cl. 365-189.000.
- Aoki, Masakazu; Horiguchi, Masashi; Nakagome, Yoshinobu; Ikenaga, Shinichi; Shimohigashi, Katsuhiro; Masuhara, Toshiaki; Itoh, Kiyoo; Nakamura, Hideo; and Minato, Osamu, 4,701,884, Cl. 365-189.000.
- Minato, Osamu; Aoki, Masakazu; Yatsuda, Yuji; Takagi, Katsuaki; and Horiguchi, Masashi, 4,653,025, Cl. 365-154.000.
- Nakagome, Yoshinobu; Aoki, Masakazu; Horiguchi, Masashi; Shimohigashi, Katsuhiro; and Ikenaga, Shinichi, 4,709,350, Cl. 365-45.000.

Horiguchi, Michiyuki: *See*—
- Matsui, Yoshimitsu; Horiguchi, Michiyuki; and Ohashi, Masakazu, 4,672,543, Cl. 364-200.000.

Horiguchi, Shojiro: *See*—
- Kawamura, Kimihide; Horiguchi, Shojiro; and Okamoto, Hisao, 4,638,052, Cl. 534-575.000.
- Nakamura, Michiei; Takeuchi, Hitoshi; Takahashi, Tetujiro; Takizawa, Minoru; and Horiguchi, Shojiro, 4,698,099, Cl. 106-288.00R.
- Nakamura, Michiei; Takeuchi, Hitoshi; Takahashi, Tetujiro; Takizawa, Minoru; and Horiguchi, Shojiro, 4,704,165, Cl. 106-308.00M.

Horiguchi, Toshio, to Olympus Optical Co., Ltd. Image display apparatus. 4,680,643, 7-14-87, Cl. 358-280.000.

Horihata, Katsushi; and Kawamori, Yoshizo, to Mita Industrial Co., Ltd. Laser beam printer. 4,713,672, 12-15-87, Cl. 346-108.000.

Horii, Daijiro: *See*—
- Sekiya, Tetsuo; Tsutsui, Mikio; Horii, Daijiro; and Ishibashi, Akira, 4,668,682, Cl. 514-259.000.
- Shibasaki, Masakatsu; Sodeoka, Mikiko; Ogawa, Yuji; Mase, Toshiaki; Ishibashi, Akira; Horii, Daijiro; Kanayama, Toshiji; Iseki, Katsuhiko; Shinoda, Masaki; Ishiyama, Chiyoko; and Hayashi, Yoshio, 4,699,921, Cl. 514-530.000.

Horii, Hiroshi: *See*—
- Miyake, Katsunobu; Horii, Hiroshi; and Ikoma, Kenji, 4,669,499, Cl. 137-375.000.

Horii, Kingo, to Toyota Jidosha Kabushiki Kaisha. Control device for controlling the operation of a supercharger in an internal combustion engine. 4,660,526, 4-28-87, Cl. 123-559.000.

Horii, Kingo: *See—*

Oonaka, Hidemi; Baika, Toyokazu; Shibata, Yoshiaki; Horii, Kingo; Sato, Yasushi; and Akiyama, Tomojiro, 4,656,992, Cl. 123-559.000.

Horii, Kiyoshi; and Murata, Toshiaki, to Horii, Kiyoshi. Method and apparatus for the generation and utilization of a spiral gas stream in a pipeline. 4,684,296, 8-4-87, Cl. 406-153.000.

Horii, Satoshi; Kameda, Yukihiko; and Fukase, Hiroshi, to Takeda Chemical Industries, Inc. N-substituted pseudo-aminosugars, their production and use. 4,701,559, 10-20-87, Cl. 564-363.000.

Horii, Shoichi: *See—*

Tsubai, Yasuo; Okazaki, Koji; Horii, Shoichi; and Yoshida, Akio, 4,649,096, Cl. 430-249.000.

Horii, Takashi: *See—*

Takemae, Yoshihiro; Nakano, Tomio; Tatematsu, Takeo; Ogawa, Junji; Horii, Takashi; Fujii, Yasuhiro; Nakano, Masao; and Tsuge, Norihisa, deceased, 4,707,806, Cl. 365-96.000.

Horii, Yoshiaki: *See—*

Honda, Kazuo; Horii, Yoshiaki; Hiramatsu, Kinuo; Nakamoto, Shuhei; and Kudo, Takashi, 4,678,054, Cl. 180-225.000.

Horii, Yoshiharu: *See—*

Yagi, Takashi; Horii, Yoshiharu; and Domoto, Yasuo, 4,697,942, Cl. 400-208.000.

Horiike, Sumio: *See—*

Tanahashi, Maki; Horiike, Sumio; and Nakano, Hiroyuki, 4,649,364, Cl. 338-14.000.

Horiike, Tetsuro: *See—*

Kanda, Nobuo; Horiike, Tetsuro; and Kondo, Mitsuru, 4,658,276, Cl. 346-220.000.

Horiike, Tomoji: *See—*

Tsuji, Eiji; Igawa, Norio; Tabuchi, Hiroshi; and Horiike, Tomoji, 4,676,152, Cl. 99-468.000.

Horiike, Yasuhiro: *See—*

Hayasaka, Nobuo; Okano, Haruo; and Horiike, Yasuhiro, 4,698,238, Cl. 427-53.100.

Sekine, Makoto; Okano, Haruo; and Horiike, Yasuhiro, 4,642,171, Cl. 204-298.000.

Sekine, Makoto; Okano, Haruo; and Horiike, Yasuhiro, 4,668,337, Cl. 156-643.000.

Horiike, Yoshio; Nagaishi, Yasuo; and Fukui, Kiyotake, to Matsushita Electric Industrial Co., Ltd. Transmitter/receiver system. 4,660,215, 4-21-87, Cl. 375-48.000.

Horiishi, Nanao: *See—*

Nagai, Norimichi; Horiishi, Nanao; Kiyama, Masao; and Takada, Toshio, 4,698,182, Cl. 252-62.590.

Horikawa, Etsuo: *See—*

Masuzaki, Hidefumi; and Horikawa, Etsuo, 4,692,944, Cl. 382-41.000.

Horikawa, Izumi: *See—*

Okamoto, Yoshiharu; Horikawa, Izumi; and Komaki, Shozo, 4,710,975, Cl. 455-276.000.

Horikawa, Jiro: *See—*

Takeo, Saegusa; Horikawa, Jiro; Niwano, Masahiro; and Kanazawa, Takenobu, 4,650,608, Cl. 540-451.000.

Horikawa, Kazuo; and Ohara, Yuji, to Fuji Photo Film Co., Ltd. Light beam scanning apparatus with adjustable scanning speed and offset. 4,638,156, 1-20-87, Cl. 250-235.000.

Horikawa, Kazuo; and Watanabe, Hideo, to Fuji Photo Film Co., Ltd. Multiple laser beam scanner with beam intensity control. 4,689,482, 8-25-87, Cl. 250-205.000.

Horikawa, Kazuo, to Fuji Photo Film Co., Ltd. Light beam scanning apparatus for reading out or recording an image. 4,700,066, 10-13-87, Cl. 250-234.000.

Horikawa, Kazuo: *See—*

Itakura, Toru; Ohara, Yuji; and Horikawa, Kazuo, 4,659,180, Cl. 350-320.000.

Kato, Hisatoyo; Kawai, Yasuhiro; Ohara, Yuji; Okamoto, Yoshihiko; Taniguchi, Yutaka; and Horikawa, Kazuo, 4,676,582, Cl. 350-6.500.

Mori, Nobufumi; Takahashi, Kenji; and Horikawa, Kazuo, 4,636,641, Cl. 250-327.200.

Horikawa, Kenichi; Yamamoto, Yoshinori; and Kawakami, Kenji, to Sony Corporation. Magnetic tape cassette having integrated optical elements. 4,644,433, 2-17-87, Cl. 360-132.000.

Horikawa, Kenichi: *See—*

Ohyama, Masao; Yamamoto, Yoshinori; Horikawa, Kenichi; and Kawakami, Kenji, 4,694,360, Cl. 360-96.500.

Horikawa, Mitsuo; and Terasawa, Akinobu, to Yoshida Kogyo K.K. Sliding clasp fastener. 4,651,388, 3-24-87, Cl. 24-409.000.

Horikawa, Tokio; Sawai, Mitsuaki; Fujioka, Hisatake; Kawashima, Nobumasa; and Yanagawa, Nobuhide, to Kubota Ltd. Self-propelled agricultural machine. 4,660,668, 4-28-87, Cl. 180-19.100.

Horikawa, Tooru: *See—*

Komatsubara, Shoji; Hatabe, Yukio; Horikawa, Tooru; Murasawa, Sadao; and Murakami, Hajime, 4,682,881, Cl. 355-10.000.

Horikawa, Toru: *See—*

Hatabe, Yukio; Miyauchi, Yoshio; Fukushima, Masao; Horikawa, Toru; and Bessho, Yoshihiko, 4,668,073, Cl. 355-3.0FU.

Horikawa, Yoichi, to Yoshida Kogyo K. K. Injection molding machine for small-sized articles. 4,690,629, 9-1-87, Cl. 425-156.000.

Horikawa, Yoshio: *See—*

Ohtomo, Fumio; Hori, Nobuo; Horikawa, Yoshio; Kimura, Kazuaki; and Sugai, Hiroo, 4,692,023, Cl. 356-5.000.

Horikawa, Yuji: *See—*

Arima, Takahisa; Ninomiya, Susumu; Horikawa, Yuji; and Aoki, Tadasi, 4,708,372, Cl. 285-150.000.

Horike, Masanori: *See—*

Izumi, Kouji; Horike, Masanori; Furukawa, Tatsuya; Kom Hiromichi; Naruse, Osamu; and Ebi, Yutaka, 4,677,845, C 73-56.000.

Horiki, Seinosuke; Makino, Reiji; Ito, Kuninori; and Unno, Tetsuj, t Nagoya Oilchemical Co., Ltd. Expanding and shrinking memb 4,714,633, 12-22-87, Cl. 427-282.000.

Horikiri Spring Mfg. Co., Ltd.: *See—*

Saito, Tsutomu; Hasegawa, Yoshimichi; Yoshikawa, Kazuo; an Aoyama, Shigetsune, 4,637,594, Cl. 267-47.000.

Horikoshi, Hiroshi: *See—*

Ito, Sho; Horikoshi, Hiroshi; and Kasahara, Kumio, 4,652,121, C 356-28.000.

Horikoshi, Koki: *See—*

Shibanai, Ichiro; Horikoshi, Koki; and Kato, Takashi, 4,681,934, C 536-46.000.

Horikoshi, Yukio: *See—*

Sakamaki, Hiroshi; Sugishita, Susumu; Horikoshi, Yukio; an Yanagihashi, Kikuji, 4,648,818, Cl. 418-173.000.

Sakamaki, Hiroshi; Sugishita, Susumu; and Horikoshi, Yuk 4,648,819, Cl. 418-173.000.

Sakamaki, Hiroshi; Sugishita, Susumu; Horikoshi, Yukio; Okamu Hiroshi; and Shimizu, Kenji, 4,649,612, Cl. 29-156.40R.

Sakamaki, Hiroshi; Horikoshi, Yukio; and Yanagihashi, Kik 4,657,493, Cl. 418-173.000.

Sakamaki, Hiroshi; Sugishita, Susumu; and Horikoshi, Yuk 4,657,495, Cl. 418-82.000.

Sakamaki, Hiroshi; Sugishita, Susumu; and Horikoshi, Yuk 4,681,519, Cl. 418-152.000.

Horima, Hiroaki: *See—*

Tabata, Yusuke; Hayasaka, Eiji; Hashimoto, Toshitomo; Hori Hiroaki; Omori, Toshiyuki; and Kurosawa, Akira, 4,662,712, C 350-96.230.

Horimoto, Koji; and Morita, Yoshinori, to Mitsui Petrochemical Indus tries, Ltd. Absorbent web structure. 4,655,877, 4-7-87, C 162-146.000.

Horimoto, Teiji: *See—*

Watanabe, Seiji; Horimoto, Teiji; and Koizumi, Susumu, 4,71 Cl. 198-619.000.

Horinek, Herbert J.: *See—*

Berryman, Leslie N.; Davis, Gail F.; and Horinek, Herbert J. 4,701,095, Cl. 414-332.000.

Horinka, Paul R., Jr.: *See—*

Richart, Douglas S.; and Horinka, Paul R., Jr., 4,689,241, C 427-28.000.

Horino, Hiroshi; Ohnaka, Michiro; Hayashi, Atsushi; and Ikeno, Yoshiko, to Nippon Zeon Co., Ltd. Process for producing substitut phthalic acid compounds. 4,684,737, 8-4-87, Cl. 549-240.000.

Horino, Seiya: *See—*

Uno, Kunihiko; Tamade, Yoshinori; Horino, Seiya; and Koden Tamotsu, 4,712,741, Cl. 241-16.000.

Horinouchi, Atsushi, to Sanyo Electric Co., Ltd. Control apparatus fo fluorescent display tube. 4,658,186, 4-14-87, Cl. 315-169.200.

Horio, Kenji: *See—*

Otsuka, Akira; Shinoda, Tsutae; Horio, Kenji; and Tanioka, Tsuyoshi, 4,684,849, Cl. 315-169.400.

Horio, Kimihide; Kikuchi, Yasunobu; and Fujita, Hiroya, to Toyota Jidosha Kabushiki Kaisha. V-type internal combustion engine wit centrally located drive gears coupling double overhead camshaft 4,658,769, 4-21-87, Cl. 123-90.310.

Horio, Motohiko: *See—*

Kaneko, Kouji; Horio, Motohiko; Kobayashi, Naoki; and Okab Fujio, 4,669,841, Cl. 352-216.000.

Horio, Yashuhiko: *See—*

Sato, Toshiaki; Mori, Hisako; Horio, Yashuhiko; Tabuchi, Kastum Matsumoto, Nobuo; and Nishii, Kazuhiko, 4,712,160, C 361-388.000.

Horisawa, Kazuyuki: *See—*

Yahagi, Masakichi; Obitsu, Takeo; Igaki, Tetsuo; Horisawa Kazuyuki; Nanbu, Morio; Kinoshita, Kimiaki; and Manaka Sumio, 4,668,967, Cl. 346-221.000.

Yahagi, Masakichi; Horiuchi, Shoichi; Toyama, Takahumi; Kashiwagi, Akio; Suzuki, Teruo; Igaki, Tetsuo; Horisawa Kazuyuki; and Shoji, Mituhiro, 4,677,203, Cl. 546-15.000.

Horishita, Sumio: *See—*

Matsunobu, Akira; Horishita, Sumio; and Yamada, Tetsuo 4,639,374, Cl. 426-43.000.

Horita, Mitsugu: *See—*

Shiokawa, Kozo; Moriya, Koichi; Goto, Toshio; Kamochi, Atsumi Ito, Seishi; and Horita, Mitsugu, 4,666,503, Cl. 71-90.000.

Horita, Yoshiyuki, to Yoshida Kogyo K. K. Separable slide fastener 4,660,258, 4-28-87, Cl. 24-433.000.

Horita, Yoshiyuki: *See—*

Watanabe, Kozo; Kando, Akiyoshi; and Horita, Yoshiyuki 4,711,020, Cl. 29-767.000.

Horiuchi, Akira: *See—*

Fujii, Masanori; Honda, Nobuyasu; Horiuchi, Akira; and Kubo Masahiko, 4,665,001, Cl. 430-106.000.

Fushida, Akira; Matsui, Toshikazu; Hasegawa, Yuuji; Maeda Masahiko; Tsuji, Nobuyuki; Horiuchi, Akira; and Yukitake Kazunori, 4,652,510, Cl. 430-122.000.

Horiuchi, Akito; Yokoyama, Kiyoshi; and Yoshida, Makoto, to Kyocera Corporation. Method for production of silicon nitride sintered body. 4,716,133, 12-29-87, Cl. 501-97.000.

- Horiuchi, Haruo: *See—*
  - Nakayama, Hajime; Aoki, Osamu; Nishijima, Shigetoshi; Horiuchi, Haruo; Sugino, Takuya; and Takagi, Shuichi, 4,672,940, Cl. 123-590.000.
- Horiuchi, Hidenaga: *See—*
  - Aoki, Yuji; Horiuchi, Hidenaga; Umemoto, Akio; and Miura, Norio, 4,695,868, Cl. 428-690.000.
- Horiuchi, Hidenori: *See—*
  - Ito, Tokuhisa; Kitamura, Goro; Horiuchi, Hidenori; and Aoyama, Masaaki, 4,650,335, Cl. 356-398.000.
- Horiuchi, Hiroshi: *See—*
  - Hirose, Kunio; Hukuta, Tadatoshi; Horiuchi, Hiroshi; Urakami, Toyozo; and Yoshida, Minoru, 4,670,801, Cl. 360-85.000.
- Horiuchi, Hiroyuki: *See—*
  - Miyako, Shunichi; and Horiuchi, Hiroyuki, 4,664,544, Cl. 400-605.000.
- Horiuchi, Ichiro; Ohshima, Shoich; and Takeshita, Keiji, to Aisin Seiki Kabushiki Kaisha; and Toyota Jidosha Kabushiki Kaisha. Mechanism for preventing erroneous reverse gear shifting in gear transmissions. 4,660,433, 4-28-87, Cl. 74-476.000.
- Horiuchi, Isamu: *See—*
  - Nagai, Makoto; Horiuchi, Isamu; Hanada, Masamichi; Kuroda, Sigeaki; Hayashi, Masakatsu; Ohishi, Yasuro; Mori, Yutaka; Maeda, Eiji; Kasukabe, Kimito; Tsujita, Yuji; Etou, Hironori; Kikuchi, Katsuaki; and Itagaki, Masato, 4,647,271, Cl. 416-186.00R.
- Horiuchi, Makoto: *See—*
  - Mizusawa, Mitutoyo; and Horiuchi, Makoto, 4,642,990, Cl. 60-554.000.
- Horiuchi, Masatada: *See—*
  - Yatsuda, Yuji; Hagiwara, Takaaki; Horiuchi, Masatada; Minami, Shinichi; and Kaga, Toru, 4,668,970, Cl. 357-23.500.
- Horiuchi, Satoshi: *See—*
  - Hata, Ryosuke; Yamanouchi, Shosuke; Hirose, Masayuki; Yoshii, Toshiya; Tsunashima, Kenji; and Horiuchi, Satoshi, 4,675,470, Cl. 174-25.00R.
- Horiuchi, Shigenori: *See—*
  - Amano, Satoru; Horiuchi, Shigenori; and Shinohara, Takeru, 4,696,551, Cl. 350-358.000.
- Horiuchi, Shoichi: *See—*
  - Yahagi, Masakichi; Horiuchi, Shoichi; Toyama, Takahumi; Kashiwagi, Akio; Suzuki, Teruo; Igaki, Tetsuo; Horisawa, Kazuyuki; and Shoji, Mituhiro, 4,677,203, Cl. 546-15.000.
- Horiuchi, Susumu; and Tamata, Shin, to Hitachi, Ltd. Method of processing radioactive waste. 4,710,318, 12-1-87, Cl. 252-628.000.
- Horiuchi, Susumu: *See—*
  - Matsuda, Masami; Aoyama, Yoshiyuki; Kawamura, Fumio; Yusa, Hideo; Kikuchi, Makoto; Tamata, Shin; and Horiuchi, Susumu, 4,654,172, Cl. 252-629.000.
- Horiuchi, Tadanori; and Watanabe, Masaki, to Honda Giken Kogyo Kabushiki Kaisha. Six-wheeled motor vehicle. 4,664,208, 5-12-87, Cl. 180-23.000.
- Horiuchi, Takefumi: *See—*
  - Tojyo, Shigeki; Uesaka, Tatsuo; Kawate, Yoshio; Iwaskai, Masayoshi; Horiuchi, Takefumi; Moritoki, Masato; Kanda, Takeshi; Fujikawa, Takao; and Kofune, Shigeo, 4,666,314, Cl. 374-131.000.
- Horiuchi, Tatsumi; Kasahara, Seitaro; and Sawaki, Akira, to Konishiroku Photo Industry Co., Ltd. Image recording apparatus for composing plural partial original images into a single composite image. 4,701,044, 10-20-87, Cl. 355-7.000.
- Horiuchi, Tatsuo, to Noda Institute for Scientific Research. Method and reagent for quantitative determination of N-acetylhexosamine. 4,634,663, 1-6-87, Cl. 435-25.000.
- Horiuchi, Tatsuya: *See—*
  - Wenger, Ulrich; and Horiuchi, Tatsuya, 4,675,202, Cl. 426-614.000.
- Horiuchi, Tatumi, to Konishiroku Photo Industry Co., Ltd. Controlling method for a sorter. 4,697,806, 10-6-87, Cl. 271-288.000.
- Horiuchi, Tetsuo: *See—*
  - Hasegawa, Kunio; Shimizu, Tasuku; Horiuchi, Tetsuo; and Ito, Hisao, 4,687,625, Cl. 376-292.000.
- Horiuchi, Tetsuro, to Ensci Incorporated. Alumina and alkaline earth metal oxide modified zeolite glass composition. 4,680,277, 7-14-87, Cl. 501-27.000.
- Horiuchi, Tetsuro: *See—*
  - Mackenzie, John D.; and Horiuchi, Tetsuro, 4,652,535, Cl. 501-27.000.
- Horiuchi, Tohru. Adjustable cervical spine corset and trunk corset. 4,643,174, 2-17-87, Cl. 128-76.00R.
- Horiuchi, Yasuhiro: *See—*
  - Iwata, Hiroshi; Kuroyanagi, Masatoshi; Suzuki, Masahiko; Moriguchi, Koichi; Horiuchi, Yasuhiro; and Nakamura, Kanehiro, 4,710,106, Cl. 417-213.000.
- Horiuchi, Yushi: *See—*
  - Mori, Masaaki; Sano, Akira; Horiuchi, Yushi; and Okumura, Yoshihiro, 4,640,023, Cl. 34-57.00A.
- Horiuchi, Yusuke; and Inui, Masaki, to Toyota Jidosha Kabushiki Kaisha. Vibration damping structure of shift lever retainer. 4,711,135, 12-8-87, Cl. 74-473.00R.
- Horiuchi, Yusuke: *See—*
  - Inui, Masaki; Horiuchi, Yusuke; and Ogawa, Shinji, 4,660,434, Cl. 74-477.000.
- Horiuchi, Yutaka. Carrying case with a hinged lid and closure member. 4,694,940, 9-22-87, Cl. 190-109.000.
- Horiya, Keiichi; Takahama, Kazuhide; Kishino, Yasuichi; and Sato, Koichiro, to Tokyo Electric Co., Ltd. Thermal printer operative in three modes including direct printing, printing with black ink ribbon cassette, and printing with color ink ribbon cassette. 4,652,154, 3-24-87, Cl. 400-120.000.
- Horiya, Keiichi; Takahama, Kazuhide; and Usami, Yutaka, to Tokyo Electric Co., Ltd. Thermal printer. 4,683,479, 7-28-87, Cl. 346-76.0PH.
- Horiyama, Osamu: *See—*
  - Buma, Shuuichi; and Horiyama, Osamu, 4,712,775, Cl. 267-220.000.
- Horiyama, Tsuyoshi: *See—*
  - Minami, Kiyoshi; and Horiyama, Tsuyoshi, 4,666,605, Cl. 210-603.000.
- Horizon Exploration Limited: *See—*
  - Newman, Paul, 4,682,307, Cl. 367-21.000.
  - Newman, Paul, 4,693,336, Cl. 181-111.000.
- Horizon Publishers & Distributors, Inc.: *See—*
  - Crowther, Duane S., 4,652,034, Cl. 294-138.000.
- Horlacher, Albert F., Jr. Vacuum cleaner hose adapter. 4,634,197, 1-6-87, Cl. 339-16.00R.
- Horlander, Frank J., to International Business Machines Corporation. Print quality controller for a thermal printer. 4,700,199, 10-13-87, Cl. 346-76.0PH.
- Horlander, Frank J., to International Business Machines Corporation. Method and apparatus for controlling print quality of a thermal printer. 4,701,836, 10-20-87, Cl. 346-76.0PH.
- Horlenko, Theodore; and George, James H., to Celanese Corporation. Process for producing n-acyl-acyloxy aromatic amines. 4,665,216, 5-12-87, Cl. 560-142.000.
- Horler, Hansulrich, to BBC Brown, Boveri & Company, Limited. Axial turbine for exhaust gas turbochargers. 4,648,790, 3-10-87, Cl. 415-112.000.
- Horlin, Nils A.: *See—*
  - Strandell, Ingemar H.; and Horlin, Nils A., 4,668,087, Cl. 356-138.000.
- Horling, Peter: *See—*
  - Brandenstein, Manfred; Hetterich, Hermann; and Horling, Peter, 4,640,632, Cl. 384-537.000.
  - Olschewski, Armin; Hetterich, Hermann; Horling, Peter; and Stolz, Robert, 4,689,982, Cl. 72-334.000.
- Horlitz, Carl F., Jr.; and Swietek, Franciscek J., to Combustion Engineering, Inc. Mobile coal-fired fluidized bed power unit. 4,633,818, 1-6-87, Cl. 122-4.00D.
- Hormadaly, Jacob, to Du Pont de Nemours, E. I., and Company. Resistor compositions. 4,654,166, 3-31-87, Cl. 252-518.000.
- Hormadaly, Jacob, to Du Pont de Nemours, E. I., and Company. Method for doping tin oxide. 4,707,346, 11-17-87, Cl. 423-518.000.
- Hormansdorfer, Gerd. Procedure and device for determining the jamming point of a pipe line in a drill hole. 4,694,902, 9-22-87, Cl. 166-250.000.
- Hormel, Ronald F., to Chrysler Motors Corporation. Multiplexing of a bandpass filter circuit to work with a flux-gate sensor output. 4,677,754, 7-7-87, Cl. 23-361.000.
- Horn, Alan S., to Nelson Research & Development Co. Method and compositions for reducing the intraocular pressure of mammals. 4,657,925, 4-14-87, Cl. 514-438.000.
- Horn, Berthold K. P.: *See—*
  - Day, Chia P.; Krause, Kenneth W.; Whitcomb, Louis L.; and Horn, Berthold K. P., 4,639,878, Cl. 364-513.000.
- Horn, Charles; Kelly, Rickey L.; Orendorf, Thomas E.; and Kiger, Terry L., to Vulcan Tool Company. System and apparatus for use in fabricating small tubular articles. 4,684,309, 8-4-87, Cl. 414-224.000.
- Horn, Charles, deceased (by Horn, Dorothy E., executor); and Jenkins, William R., to Vulcan Tool Company. Machine for cold forming small tubular elements. 4,709,574, 12-1-87, Cl. 72-405.000.
- Horn, Dieter: *See—*
  - Auweter, Helmut; Horn, Dieter; and Lueddecke, Erik, 4,637,716, Cl. 356-28.500.
  - Woerner, Frank P.; Neumann, Peter; Mahnke, Harald; Lamprecht, Josef; Horn, Dieter; Turznik, Gerhard; Kraus, Friedrich; Kaeppel, Hanshelmut; and Heim, Eduard, 4,666,948, Cl. 521-105.000.
- Horn, Donald N.: *See—*
  - Pshtissky, Yacov A.; Horn, Donald N.; and Skidmore, John, 4,700,230, Cl. 358-181.000.
- Horn, Dorothy E., executor: *See—*
  - Horn, Charles, deceased; and Jenkins, William R., 4,709,574, Cl. 72-405.000.
- Horn, Edward R.; and Kot, Norbert J., II, to Aladdin Engineering & Mfg. Mechanical toggle clamp with means for applying uniform clamping force. 4,679,782, 7-14-87, Cl. 269-228.000.
- Horn, Gary R.; and Mikelait, Robert C., to International Business Machines Corporation. Interactive page length adjustment with automatic pagination. 4,709,348, 11-24-87, Cl. 364-900.000.
- Horn, Glenn T.: *See—*
  - Mullis, Kary B.; Erlich, Henry A.; Arnheim, Norman; Horn, Glenn T.; Saiki, Randall K.; and Scharf, Stephen J., 4,683,195, Cl. 435-6.000.
- Horn, Guenther; Pieper, Wolfgang; and Roeser, Heribert, to Siemens Aktiengesellschaft. Electrical coil form with connector pins. 4,646,047, 2-24-87, Cl. 336-192.000.
- Horn, Gunther; Pieper, Wolfgang; and Roeser, Heribert, to Siemens Aktiengesellschaft. Electrical coil form with connector sleeves. 4,649,361, 3-10-87, Cl. 336-192.000.
- Horn, Hans C.: *See—*
  - Grimmer, Johannes; and Horn, Hans C., 4,673,742, Cl. 544-251.000.
  - Grimmer, Johannes; and Horn, Hans C., 4,687,847, Cl. 544-251.000.
- Horn, James L.; Schwartz, Robert C.; and Sparks, John E., to Horn, James L. Gin lint cleaner with fiber return. 4,654,933, 4-7-87, Cl. 19-200.000.

Horn, Joachim. Split-flange connector and method of making same. 4,660,266, 4-28-87, Cl. 29-417.000.

Horn, John, to Lear Siegler, Inc. Glider support assembly. 4,700,920, 10-20-87, Cl. 248-370.000.

Horn, John J.; and Baker, Daniel G., to Tektronix, Inc. Method and apparatus for providing a visual indication of a relationship between two signals. 4,648,113, 3-3-87, Cl. 381-1.000.

Horn, Jorg. Collective pack for protective coverings consisting of plastic foil, for motor-vehicle parts such as the seats, steering wheel, floor or the like. 4,655,347, 4-7-87, Cl. 206-390.000.

Horn, Jurgen: *See—*
  Hempel, Hans D.; Horn, Jurgen; Rothermel, Wilfried; Sonneborn, Hans H.; Becker, Michael; and Muller, Ullrich, 4,678,753, Cl. 435-296.000.

Horn, Manfred; and Mayer, Franz, to Gebr. Bode & Co. GmbH. Helical ball gearing. 4,685,344, 8-11-87, Cl. 74-424.8NA.

Horn, Marcus J.; and Miller, William K., to Applied Protein Technologies, Inc. Apparatus for automated synthesis of peptides. 4,701,304, 10-20-87, Cl. 422-62.000.

Horn, Martin, to VDO Adolf Schindling AG. Electromagnetically actuatable fuel-injection valve. 4,646,975, 3-3-87, Cl. 239-585.000.

Horn, Peter; Baumann, Edwin; and Marx, Matthias, to BASF Aktiengesellschaft. Nylon moldings and their production. 4,714,718, 12-22-87, Cl. 521-134.000.

Horn-Plastik Theodor Horn KG: *See—*
  Horn, Stephanie, 4,681,785, Cl. 428-43.000.

Horn, Richard L.: *See—*
  Cleary, Patrick J.; Kelman, Lloyd S.; and Horn, Richard L., 4,638,437, Cl. 364-427.000.

Horn, Robert E.; and Jacobs, Harold, deceased (by Jacobs, Lydia S., executrix), to United States of America, Army. Coaxial cavity Gunn oscillator using probe coupled microstrip. 4,636,751, 1-13-87, Cl. 331-96.000.

Horn, Robert E.; Jacobs, Harold, deceased (by Jacobs, Lydia S., executrix); and Schwering, Felix, to United States of America, Army. Integrated dual beam line scanning antenna and negative resistance diode oscillator. 4,644,363, 2-17-87, Cl. 343-785.000.

Horn, Spencer C.; and Horn, Virginia. Apparatus for improved aeration of liquids. 4,713,172, 12-15-87, Cl. 210-150.000.

Horn, Stephanie, to Horn-Plastik Theodor Horn KG. Supply roll for protective covers especially those made out of sheet plastic, for motor-vehicle seats. 4,681,785, 7-21-87, Cl. 428-43.000.

Horn, Virginia: *See—*
  Horn, Spencer C.; and Horn, Virginia, 4,713,172, Cl. 210-150.000.

Horn, William F.: *See—*
  Abbott, Edward H.; Erickson, Robert H.; and Horn, William F., 4,713,877, Cl. 29-596.000.

Horna, Otakar A.; Stennett, Edwin A.; and El-Mokadem, Ferial T., to Communications Satellite Corporation. Double talk and line noise detector for a echo canceller. 4,645,883, 2-24-87, Cl. 379-406.000.

Hornacek, Kenneth J., to Industrial Technology Institute. High weight capacity robot to pick and place palleted materials in a confined space with specific rotational control. 4,674,948, 6-23-87, Cl. 414-744.00A.

Hornack, Thomas R.; and Brown, Melvin H., to Aluminum Company of America. Wire brush heat exchange insert and method. 4,705,106, 11-10-87, Cl. 165-179.000.

Hornagold, John T.; and Pezewski, Paul, to Simon Aerials, Inc. Articulated work platform with scissors motion. 4,690,246, 9-1-87, Cl. 182-2.000.

Hornak, Leonard P.; Meuschke, Robert E.; and Marshall, James R., to Westinghouse Electric Corp. Refueling machine mounted fuel assembly inspection T.V. cameras. 4,643,867, 2-17-87, Cl. 376-248.000.

Hornak, Leonard P., to Westinghouse Electric Corp. Crimping. 4,704,246, 11-3-87, Cl. 376-260.000.

Hornak, Leonard P.: *See—*
  Meuschke, Robert E.; and Hornak, Leonard P., 4,647,424, Cl. 376-264.000.
  Meuschke, Robert E.; Hornak, Leonard P.; and Marshall, James R., 4,650,634, Cl. 376-248.000.

Hornak, Thomas: *See—*
  Baldwin, Gary; Hallgren, Robert B.; Hornak, Thomas; and Ives, Fred H., 4,639,619, Cl. 307-352.000.

Hornbeck, David A.: *See—*
  Best, Donald D., Jr., 4,715,568, Cl. 248-1.000.

Hornbeck, Larry J., to Texas Instruments Incorporated. Spatial light modulator and method. 4,662,746, 5-5-87, Cl. 350-269.000.

Hornbeck, Larry J., to Texas Instruments Incorporated. Spatial light modulator and method. 4,710,732, 12-1-87, Cl. 332-7.510.

Hornberg, Gunnar: *See—*
  Kovasna, Lars; and Hornberg, Gunnar, 4,666,388, Cl. 425-62.000.

Hornberger, Dennis A., to Sermetel Corp. Coated part, coating therefor and method of forming same. 4,699,839, 10-13-87, Cl. 428-312.800.

Hornblad, Richard P.; and Sorensen, Gerald R., to DCI Marketing. Mobius strip and display utilizing the same. 4,640,029, 2-3-87, Cl. 40-5.000.

Hornbostel, Lloyd; and Butrymowicz, Dale, to Parker Pen Ltd. Process for preparing a part for color anodization. 4,713,150, 12-15-87, Cl. 204-38.300.

Hornburger, Detlev; Schaffert, Albrecht; and Schneider, Henner, to International Standard Electric Corporation. Method of transferring information between microcomputers in a decentralized process control system, particularly for telephone systems. 4,634,812, 1-6-87, Cl. 379-269.000.

Horne, David; and Parker, Laurence, to BICC Public Limited Company. Enclosure for housing circuit boards. 4,690,286, 9-1-87, Cl. 211-41.000.

Horne, Donald R., to General Instrument Corp. Program blocking method for use in direct broadcast satellite system. 4,685,131, 8-4-8 Cl. 380-20.000.

Horne, Donald R.; and Jeffers, John M., to General Instrument Corp. Cryptographic system using interchangeable key blocks and selectable key fragments. 4,694,491, 9-15-87, Cl. 380-20.000.

Horne, Kenneth A., to Connelly Skis, Inc. Ski cover. 4,715,416, 12-29-87, Cl. 150-52.00R.

Horne, Ottis J.: *See—*
  Short, Lewis A.; and Horne, Ottis J., 4,634,608, Cl. 427-327.00

Hornebeck, William: *See—*
  Robert, Ladislas; Hornebeck, William; and Moczar, Eleme 4,665,053, Cl. 514-18.000.

Horner, Gary: *See—*
  Raines, Kenneth; and Horner, Gary, 4,671,408, Cl. 206-365.00

Horner, Hans-Peter: *See—*
  Rabener, Claus W.; Horner, Hans-Peter; and Baumann, Dieter 4,716,185, Cl. 523-456.000.

Horner, John A. Method of detecting leaks in liquid storage tank 4,649,739, 3-17-87, Cl. 73-49.200.

Horner, M. Harlan: *See—*
  Burnett, Sibley C.; Purcell, John R.; and Horner, M. Harla 4,694,269, Cl. 335-216.000.

Horner, Michael: *See—*
  Hettche, Albert; Weiss, Stefan; Trauth, Hubert; Lechtken, Peter and Horner, Michael, 4,680,327, Cl. 524-110.000.

Horner, Robert G. Hay-hauling trailer. 4,643,625, 2-17-87, C 414-24.500.

Horner, Tommy D. Punch tool grinder and method. 4,656,786, 4-14-8 Cl. 51-50.00R.

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Horng, Horng-Her. Structural improvement in the burning chamber a horizontal boiler. 4,671,213, 6-9-87, Cl. 122-136.00R.

Horng, Jin-Shan. Chain breakdown safety device for a power-drive roller door. 4,704,914, 11-10-87, Cl. 74-411.500.

Horng, Liou-Liang: *See—*
  Taylor, Keith M.; Horng, Liou-Liang; and Hirzel, Timothy K., 4,680,145, Cl. 260-502.00R.

Horng, Sheng-Chorng. Sport shoe lacing device. 4,680,835, 7-21-87, C 24-117.000.

Horng, Shi Y.: *See—*
  Chen, Sheng K.; Horng, Shi Y.; and Chen, I-Ting, 4,694,639, C 56-10.200.

Hornig, Klaus-Juergen; and Thiessen, Hans-Henning, to Mergenthale Linotype GmbH. Baseline transposition and character segmenting method for printing. 4,680,578, 7-14-87, Cl. 340-731.000.

Horning, Bent, to F. L. Smidth & Co. A/S. Heat exchanger. 4,653,57 3-31-87, Cl. 165-84.000.

Horning, Leonard A. Adjustable antenna mount for parabolic antennas. 4,644,365, 2-17-87, Cl. 343-882.000.

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Hornsby, William S.; Skurka, Joseph C.; and Summers, Hayward P., to Federal-Mogul Corporation. Hot-forging small inner diameter powdered metal parts. 4,666,665, 5-19-87, Cl. 419-48.000.

Hornstra, Jan; and Viegers, Mathias P. A., to U.S. Philips Corporation. X-ray analysis apparatus including a monochromator crystal having crystal lattice surfaces. 4,649,557, 3-10-87, Cl. 378-84.000.

Hornung, Adolf: *See—*
  Heina, Karl-Fritz; Hornung, Adolf; Worner, Kurt; and Wolf, Klaus, 4,643,412, Cl. 271-94.000.

Hornung, Ernst; and Rex, Dietrich, to ERNO Raumfahrttechnik Gmbh. Solar energy collector. 4,690,355, 9-1-87, Cl. 244-173.000.

Hornung, Friedrich; Paule, Kurt; and Schadlich, Fritz, to Robert Bosch GmbH. Hand tool machine, in particular drilling machine. 4,673,31 6-16-87, Cl. 408-9.000.

Hornung, Jurgen: *See—*
  Deckelmann, Karl; Hornung, Jurgen; Jones, Graham S.; Kersting, Roland; Reynolds, Quentin; and Taitl, Ino, 4,689,270, Cl. 428-432.000.

Hornung, Mary J.; and Sauer, Edward C., to Elkem Metals Company. Gray cast iron inoculant. 4,666,516, 5-19-87, Cl. 420-30.000.

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  Lempert, Karoly; Hornyak, Gyula; Bartha, Ferenc; Doleschall, Gabor; Fetter, Jozsef; Nyitrai, Jozsef; Simig, Gyula; Zauer, Karoly; Huszthy, Peter; Feller, Antal; Petocz, Lujza; Szirt, Eniko; Grasser, Katalin; Berenyi, Edit; Orr, Zsuzsanna; and Pjeczka, Etelka, 4,665,083, Cl. 514-370.000.

Hornykiewicz, Oleh; Hinzen, Dieter; and Schingnitz, Gunter, to Boehringer Ingelheim KG. Agent for treating Parkinson's disease or Parkinsonism. 4,645,770, 2-24-87, Cl. 514-212.000.

Horodysky, Andrew G.; and Law, Derek A., to Mobil Oil Corporation. Sulfurized olefins as antiwear additives and compositions thereof. 4,654,156, 3-31-87, Cl. 252-47.000.

Horodysky, Andrew G., to Mobil Oil Corporation. Multifunctional antiwear additives and compositions thereof. 4,657,684, 4-14-87, Cl. 252-32.500.

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Horodysky, Andrew G.; and Landis, Phillip S., to Mobil Oil Corporation. Reaction products of sulfur containing vicinal diols and hydrogen phosphites as lubricant and fuel additives. 4,704,218, 11-3-87, Cl. 252-46.600.

Horodysky, Andrew G.; and Law, Derek A., to Mobil Oil Corporation. Sulfurized olefins as antiwear/extreme pressure additives for lubricants and fuels and compositions thereof. 4,711,736, 12-8-87, Cl. 252-47.500.

Horodysky, Andrew G.: *See—*
  Doner, John P.; Horodysky, Andrew G.; and Keller, John A., Jr., 4,655,948, Cl. 252-49.600.
  Farng, Liehpao O.; and Horodysky, Andrew G., 4,715,974, Cl. 252-46.400.

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Horowitz, Alexandre; Cuypers, Martinus H.; and van Rooji, Jacobus H. M., to Volvo Car B.V. Transmission chain. 4,642,079, 2-10-87, Cl. 474-219.000.

Horowitz, Bruce S., to Henry Ford Hospital. Delivery system for interstitial radiation therapy including substantially non-deflecting elongated member. 4,697,575, 10-6-87, Cl. 128-1.200.

Horowitz, Bruce S., to Henry Ford Hospital. Temporary radiation therapy. 4,706,652, 11-17-87, Cl. 128-1.200.

Horowitz, Carl; Ryan, John M.; Sanduja, Mohan L.; Sugathan, Kenneth K.; and Thottathil, Paulose P., to Forsythe Cosmetic Group, Ltd. Titanium dioxide dispersions and processes for their production. 4,683,007, 7-28-87, Cl. 106-308.00M.

Horowitz, Michael D.; and Horowitz, Robin M. Supporting bracket for a feminine hygiene cabinet. 4,641,898, 2-10-87, Cl. 312-209.000.

Horowitz, Paul; and van der Hoorn, Rudolf J. G. A., to U.S. Philips Corporation. Apparatus for centering, aligning and clamping an optical disc. 4,649,531, 3-10-87, Cl. 369-270.000.

Horowitz, Peter N.: *See—*
  Griffin, William R.; Heller, Lawrence G.; and Horowitz, Peter N., 4,638,482, Cl. 371-63.000.

Horowitz, Robin M.: *See—*
  Horowitz, Michael D.; and Horowitz, Robin M., 4,641,898, Cl. 312-209.000.

Horowski, Reinhard: *See—*
  Aufdembrinke, Bernd; Dorow, Rainer; Horowski, Reinhard; Suchy, Irmgard; Schroeder, Gertrud; Wachtel, Helmut; Kehr, Wolfgang; and Stock, Gunter, 4,711,891, Cl. 514-313.000.

Horphag Overseas Ltd.: *See—*
  Masquelier, Jack, 4,698,360, Cl. 514-456.000.

Horr, Alfred: *See—*
  Brede, Uwe; Horr, Alfred; and Reiss, Heinz, 4,674,405, Cl. 102-202.000.

Horrall, Thomas R.; and Greiner, Richard A., to Bolt Beranek and Newman Inc. Multichannel masking sound generator. 4,674,124, 6-16-87, Cl. 381-73.100.

Horres, C. Russell, Jr., to Becton Dickinson and Company. Method of determining adhesion of a liquid sample. 4,634,679, 1-6-87, Cl. 436-63.000.

Horres, Johannes: *See—*
  Bengl, Dieter; and Horres, Johannes, 4,698,085, Cl. 65-16.000.

Horriere, Daniel; and Chazalet, Maurice, to Rhone-Poulenc Agrochimie. Fungicidal compositions based on alkyl phosphites. 4,698,334, 10-6-87, Cl. 514-141.000.

Horrmann, Wilhelm. Fatty aldehydes and acids in the treatment of neurological and dermatological diseases. 4,687,783, 8-18-87, Cl. 514-693.000.

Horrobin, David F.; Manku, Mehar S.; and Huang, Yung S., to Efamol Limited. Pharmaceutical and dietary compositions. 4,666,701, 5-19-87, Cl. 424-10.000.

Horrobin, David F., to Efamol Limited. Pharmaceutical and dietary composition. 4,681,896, 7-21-87, Cl. 514-552.000.

Horrocks, Donald L., to Beckman Instruments, Inc. Quench, volume and activity determinations in a liquid scintillation flow system. 4,661,705, 4-28-87, Cl. 250-328.000.

Horrocks, Donald L.; and Kampf, Richard S., to Beckman Instruments, Inc. Apparatus for positioning an external radioactive standard in a liquid scintillation counter. 4,678,912, 7-7-87, Cl. 250-328.000.

Horrocks, Donald L., to Beckman Instruments, Inc. Method and apparatus for indicating quench of a liquid scintillation solution. 4,694,176, 9-15-87, Cl. 250-362.000.

Horrocks, Geral I. E. J.: *See—*
  Knapp, Lionel; and Horrocks, Geral I. E. J., 4,645,117, Cl. 228-124.000.

Horsch, Joachim, to J. I. Case Company. Hydraulic control for a master clutch of a transmission. 4,643,285, 2-17-87, Cl. 192-87.130.

Horsch, Joachim, to J. I. Case Company. Hydraulic control for a transmission with high-low powershift and masterclutch. 4,646,895, 3-3-87, Cl. 192-87.130.

Horsch, Joachim, to J. I. Case Company. Clutch disengagement control system. 4,651,858, 3-24-87, Cl. 192-87.130.

Horsch, Joachim: *See—*
  Vater, George R.; and Horsch, Joachim, 4,648,495, Cl. 192-70.120.

Horsch, Rudolf, to J. I. Case Company. Crawler track hydraulic transmission control system. 4,633,960, 1-6-87, Cl. 180-6.700.

Horsch, Rudolf, to J. I. Case Company. Backhoe hydraulic latch arrangement. 4,661,036, 4-28-87, Cl. 414-686.000.

Horsch, Wilfried, to GTE Products Corporation. Bore head for deep-hole boring. 4,640,373, 2-3-87, Cl. 175-272.000.

Horsch, Wilfried. Machine tool with tool changing device. 4,698,898, 10-13-87, Cl. 29-568.000.

Horsewell, Henry G.; and Duke, Martin G., to British-American Tobacco Company, Limited. Smoking articles. 4,649,942, 3-17-87, Cl. 131-336.000.

Horsewell, Henry G.; and Duke, Martin G., to British-American Tobacco Company Limited. Smoking articles. 4,660,576, 4-28-87, Cl. 131-336.000.

Horsewell, Henry G.; Duke, Martin G.; and Phelpstead, James W., to British-American Tobacco Company Limited. Tobacco smoke filters. 4,660,579, 4-28-87, Cl. 131-339.000.

Horsewell, Henry G.; and Duke, Martin G., to British-American Tobacco Company Limited. Smoking-articles mouthpieces-elements. 4,700,724, 10-20-87, Cl. 131-336.000.

Horsley, Larry L., to Horsley, Martha Willene. Adjustable outlet box mounting. 4,645,089, 2-24-87, Cl. 220-3.600.

Horsley, Martha Willene: *See—*
  Horsley, Larry L., 4,645,089, Cl. 220-3.600.

Horsley, Richard R.; Jones, Robert L.; and Snow, Robert J., to Royal Melbourne Institute of Technology Limited; and Western Australian Institute of Technology. Slurry viscosity control. 4,688,588, 8-25-87, Cl. 137-13.000.

Horsma, David A.; Lyons, Bernard J.; and Smith-Johannsen, Robert, to Raychem Corporation. Layered self-regulating heating article. 4,654,511, 3-31-87, Cl. 219-548.000.

Horsma, David A.; and Hammack, Teddy J., to Raychem Corporation. Self regulating heating device employing positive temperature coefficient of resistance compositions. 4,658,121, 4-14-87, Cl. 219-553.000.

Horsman, Dennis P.: *See—*
  Kovacs, Lloyd; and Horsman, Dennis P., 4,703,608, Cl. 53-410.000.

Horst, Hans; Horst, Werner S.; and Muellers, Bernardo P., to Horst, Hans. Continuous casting apparatus. 4,665,969, 5-19-87, Cl. 164-439.000.

Horst, Rathert, to Kolbus GmbH & Co. KG. Bookbinding method and apparatus. 4,704,973, 11-10-87, Cl. 112-21.000.

Horst Reinhold Wagner, Trustee, H&L Wagner Family Trust: *See—*
  Wagner, Horst R., 4,673,380, Cl. 474-90.000.

Horst, Robert W.; and Harris, Richard L., to Tandem Computers Incorporated. Enhanced CPU microbranching architecture. 4,636,943, 1-13-87, Cl. 364-200.000.

Horst, Werner S.: *See—*
  Horst, Hans; Horst, Werner S.; and Muellers, Bernardo P., 4,665,969, Cl. 164-439.000.

Horst, William E.: *See—*
  Smit, Francis J.; Horst, William E.; and Bhasin, Anirudh K., 4,713,086, Cl. 44-51.000.

Horst, William R.: *See—*
  Hale, William J.; Horst, William R.; and Riley, Ellen P., 4,634,845, Cl. 235-350.000.
  Hale, William J.; and Horst, William R., 4,652,698, Cl. 380-24.000.
  Hale, William J.; Horst, William R.; and Creech, Arthur R., Jr., 4,689,478, Cl. 235-380.000.

Horstketter, Eugene A. Bridge overhang bracket and hanger. 4,660,800, 4-28-87, Cl. 249-24.000.

Horstketter, Eugene A. Concrete train paving apparatus and method. 4,706,317, 11-17-87, Cl. 14-1.000.

Horstman Defence Systems Limited: *See—*
  Morris, Roy; and Dowling, Steven, 4,674,608, Cl. 188-290.000.

Horstmann, Harald: *See—*
  Lockhoff, Oswald; Stadler, Peter; Opitz, Hans-Georg; Horstmann, Harald; Junge, Bodo; and Pelster, Bernhard, 4,710,491, Cl. 514-42.000.

Horstmann, Karl H.: *See—*
  Quast, Armin W.; and Horstmann, Karl H., 4,641,799, Cl. 244-207.000.

Horstmann, Walter, to Bayer Aktiengesellschaft. Diaminoalkyldiphenyl ethers, a process for their preparation and their use. 4,663,484, 5-5-87, Cl. 564-430.000.

Hortenhuber, Emil. Holding device for film and video cameras. 4,676,622, 6-30-87, Cl. 354-293.000.

Horticultural Printers, Inc.: *See—*
  Coleman, John C., 4,689,100, Cl. 156-73.100.

HORTMANN GmbH: *See—*
  Hortmann, Guenther; Kunick, Klaus; and Fenner, Hans, 4,696,287, Cl. 128-1.00R.

Hortmann, Guenther; Kunick, Klaus; and Fenner, Hans, to HORTMANN GmbH. Transmission system for implanted hearing aids. 4,696,287, 9-29-87, Cl. 128-1.00R.

Horton, Derek: *See—*
  Swenton, John S.; Horton, Derek; Priebe, Waldemar; and Morrow, Gary W., 4,663,445, Cl. 536-6.400.

Horton, Edward E. Jacket tower structure and method of installation. 4,648,750, 3-10-87, Cl. 405-208.000.

Horton, Edward E. Drilling, production and oil storage caisson for deep water. 4,702,321, 10-27-87, Cl. 166-350.000.

Horton, Edwin T.; and Peterson, Robert L., to Satellite Technology Services, Inc. Polarity switch for satellite television receiver. 4,672,687, 6-9-87, Cl. 455-277.000.

Horton, Harold E.; and Roberts, Joseph B., to General Telephone Co. of Florida. Test apparatus for a subscriber line. 4,707,850, 11-17-87, Cl. 379-29.000.

Horton, Harold E.; and Roberts, Joseph B., to General Telephone Co. of Florida. Remote isolation test apparatus. 4,707,851, 11-17-87, Cl. 379-29.000.

Horton, James B. Plunger valve apparatus for oil well pump. 4,691,735, 9-8-87, Cl. 137-494.000.

Horton, M. Duane; and Peterson, Gary R., to Sii Megadiamond, Inc. Infiltrated thermally stable polycrystalline diamond. 4,664,705, 5-12-87, Cl. 75-243.000.

Horton Manufacturing Co., Inc.: *See*—
  Hanks, James V.; Raines, Charles D.; and Dayen, Leonid, 4,633,991, Cl. 192-85.0CA.
  Hanks, James V., 4,635,768, Cl. 192-30.00W.
  Hanks, James V.; and Brooks, Edward, 4,657,126, Cl. 192-48.910.
  Hanks, James V.; Raines, Charles D.; and Dayen, Leonid, 4,679,675, Cl. 192-67.00R.
  Schilling, Hugh K.; Dayen, Leonid; and Raines, Charles D., 4,648,493, Cl. 192-18.00A.

Horton, Michael: *See*—
  Cloke, Martin; Horton, Michael; Menne, Rudolf; and Stwiorok, Andreas, 4,706,622, Cl. 123-306.000.

Horton, Robert L., to Phillips Petroleum Company. Recovery of mineral values using magnetically susceptible ion exchange agent. 4,661,327, 4-28-87, Cl. 423-7.000.

Horton, Samuel F.: *See*—
  Bland, Randall J.; Butler, Ronald W.; and Horton, Samuel F., 4,662,572, Cl. 242-7.030.

Horvah, Laszlo S., to C O D Inter Techniques SA. Assembly robot with reaction absorbing platform. 4,696,351, 9-29-87, Cl. 173-22.000.

Horvai, Gyorgy: *See*—
  Pungor, Erno; Toth, Klara S.; Feher, Zsofia; Nagy, Geza; and Horvai, Gyorgy, 4,673,295, Cl. 356-440.000.

Horvat, Borut, to Carl Freudenberg, Firma. Pneumatic suspension system. 4,669,710, 6-2-87, Cl. 267-64.210.

Horvath, Agnes: *See*—
  Meszaros, Zoltan; Knoll, Jozsef; Hermecz, Istvan; Szentmiklosi, Peter; Horvath, Agnes; Vasvari nee Debreczy, Lelle; Kovacs, Gabor; Gyires, Klara; and Virag, Sandor, 4,666,912, Cl. 514-258.000.
  Szuts, Tamas; Szentmiklosi, Peter; Lengyel, Jozsef; Hermecz, Istvan; Vasvari nee Debreczy, Lelle; Horvath, Agnes; Kersztury, Geza; Kovacs, Gabor; Horvath, Gabor; and Marmarosi nee Kellner, Katalin, 4,670,440, Cl. 514-254.000.

Horvath, Andras: *See*—
  Balint, Sandor; Benczik nee Pasztor, Judit; Fodor, Jozsef; Horvath, Andras; Tomordi, Elemer; Soptei, Csaba; Karsai, Jozsef; Sebestyen, Endre; Gaal, Sandor; Gardi, Ivan; Kiss, Gyorgy; Papp, Andrass; and Csatlos, Imre, 4,668,274, Cl. 71-86.000.

Horvath, Aniko: *See*—
  Gulyas, Tamas; Horvath, Aniko; Keri, Gyorgy; Nikolics, Karoly; Szoke, Balazs; and Teplan, Istvan, 4,647,552, Cl. 514-15.000.
  Gulyas, Tamas; Horvath, Aniko; Keri, Gyorgy; Nikolics, Karoly; Szoke, Balazs; and Teplan, Istvan, 4,647,553, Cl. 514-15.000.

Horvath, Barbara: *See*—
  Horvath, Ronald F.; and Horvath, Barbara, 4,651,900, Cl. 222-144.500.

Horvath, Barbara L.: *See*—
  Horvath, Ronald F.; and Horvath, Barbara L., 4,665,955, Cl. 141-1.000.
  Horvath, Ronald F.; and Horvath, Barbara L., 4,681,144, Cl. 141-1.000.
  Horvath, Ronald F.; and Horvath, Barbara L., 4,712,709, Cl. 220-334.000.

Horvath, Csaba: *See*—
  Ambrus, Clara M.; and Horvath, Csaba, 4,714,556, Cl. 210-638.000.

Horvath, Gabor: *See*—
  Szuts, Tamas; Szentmiklosi, Peter; Lengyel, Jozsef; Hermecz, Istvan; Vasvari nee Debreczy, Lelle; Horvath, Agnes; Kersztury, Geza; Kovacs, Gabor; Horvath, Gabor; and Marmarosi nee Kellner, Katalin, 4,670,440, Cl. 514-254.000.

Horvath, Glenn, to Julius Blum Gesellschaft m.b.H. Marking gauge for locating positions indicative of construction patterns of components of articles of furniture. 4,670,990, 6-9-87, Cl. 33-562.000.

Horvath, Gyula: *See*—
  Bajusz, Sandor; Szell nee Hasenohrl, Erzsbet; Bagdy, Daniel; Barabas, Eva; Dioszegi, Mariann; Fittler, Zsuzsa; Jozsa, Ferencz; Horvath, Gyula; and Tomori nee Jozst, Eva, 4,703,036, Cl. 514-18.000.

Horvath, Imre, to BBC Brown, Boveri & Company, Limited. Gas-blast circuit breaker. 4,677,265, 6-30-87, Cl. 200-148.00B.

Horvath, Imre; Niemeyer, Lutz; and Widl, Wolfgang, to BBC Brown, Boveri & Co., Ltd. Gas-blast switch. 4,689,453, 8-25-87, Cl. 200-148.00B.

Horvath, Janos: *See*—
  Bader, Imre; Berecz, Endre; Szina, Gabor; and Horvath, Janos, 4,639,304, Cl. 204-413.000.

Horvath, Joseph G.; and Miller, James C., to Automeg, Inc. Apparatus for monitoring motor winding leakage. 4,716,487, 12-29-87, Cl. 361-42.000.

Horvath, Laszlo S., to C O D Inter Techniques SA. Assembling robot comprising a collective transport device for transporting parts to be assembled, assembling method and applications thereof. 4,648,167, 3-10-87, Cl. 29-428.000.

Horvath, Louis, to HSA, Inc. Penetration conductor pipe drive sho
4,657,441, 4-14-87, Cl. 405-254.000.

Horvath nee Feher, Eva: *See*—
  Madi-Szabo, Laszlo; Morvai, Margit; Horvath nee Feher, Ev
  Jansco, Sandor; Tamasi, Piroska; Kovacs, Istvan; Kiss nee L
  Ilona Maria; Bacsa, Gyorgy; Kubala nee Papp, Maria; and B
  nee Horvath, Magdolna, 4,705,779, Cl. 514-27.000.

Horvath, Peter; and Destics, Rudolph, to Tisza Industries, Inc. Se
control mechanism. 4,668,933, 5-26-87, Cl. 338-134.000.

Horvath, Richard A.; Rank, William E.; and Whelan, James E.
General Motors Corporation. Strut damper with base valve and
retention. 4,633,983, 1-6-87, Cl. 188-322.140.

Horvath, Ronald: *See*—
  Elsmo, Thad; and Horvath, Ronald, 4,694,971, Cl. 215-251.0

Horvath, Ronald F.; and Horvath, Barbara. Dual compartment serv
pot. 4,651,900, 3-24-87, Cl. 222-144.500.

Horvath, Ronald F.; and Horvath, Barbara L. Nozzle apparatus a
engagement method. 4,665,955, 5-19-87, Cl. 141-1.000.

Horvath, Ronald F.; and Horvath, Barbara L. Automatic fueling ap
ratus and method. 4,681,144, 7-21-87, Cl. 141-1.000.

Horvath, Ronald F.; and Horvath, Barbara L. Fuel-intake device
vehicle tank. 4,712,709, 12-15-87, Cl. 220-334.000.

Horvath, Stephen J.: *See*—
  Sherman, William, III; Larkin, Francis C.; and Horvath, Stephen J.
  4,671,502, Cl. 271-4.000.
  Sherman, William, III; Larkin, Francis C.; and Horvath, Stephen J.
  4,703,172, Cl. 250-223.00R.
  Sherman, William, III; Larkin, Francis C.; and Horvath, Stephen J.
  4,707,599, Cl. 250-223.00R.

Horvath, Zoltan: *See*—
  Csery, Huba; Czigany, Imre; Horvath, Zoltan; Kertesz, Ivan; K
  Norbert; and Schmidt, Gyorgy, 4,644,550, Cl. 372-40.000.
  Hegedus, Laszlo ; and Horvath, Zoltan, 4,641,834, Cl. 272-7

Horvath, Zoltan L.; Kavanagh, Gary A.; Manning, Steven F.; Py
Ronald J.; Rogers, Lloyd W.; and Schlaps, Edgar H., to Gener
Motors Corporation. Pneumatically cushioned vehicle seat(s) a
apparatus and method to adjust the same. 4,707,027, 11-17-87, C
297-284.000.

Horwell, David, to Warner-Lambert Company. Substituted trans-1,
diaminocyclohexyl amide compounds. 4,656,182, 4-7-87, C
514-324.000.

Horwell, David C.; and Schofield, David, to Warner-Lambert Com
pany. Substituted naphthalenyloxy-1,2-diaminocyclohexyl am
compounds. 4,663,343, 5-5-87, Cl. 514-429.000.

Horwell, David C., to Warner-Lambert Company. Substituted tra
1,2-diaminocyclohexyl amide compounds. 4,677,122, 6-30-87, C
514-622.000.

Horwell, David C.; and Timms, Graham H., to Lilly Industries Limit
Amine derivatives. 4,705,807, 11-10-87, Cl. 514-650.000.

Horwich, Kate B.: *See*—
  Greenberger, Susan; and Horwich, Kate B., 4,669,831, Cl. 2-93.0

Horwitz, Christopher M., to Unisearch Limited. Complementary c
rent mirror logic. 4,704,544, 11-3-87, Cl. 307-270.000.

Horwitz, Jerome P.: *See*—
  Brooks, Samuel C.; and Horwitz, Jerome P., 4,636,496, C
  514-182.000.
  Brooks, Samuel C.; and Horwitz, Jerome P., 4,668,668, C
  514-178.000.

Horwitz, Lawrence B., to Sangamo Weston, Inc. System for improvi
signal-to-noise ratio in a direct sequence spread spectrum sig
receiver. 4,644,523, 2-17-87, Cl. 370-18.000.

Horwitz, Lawrence B.: *See*—
  Jerrim, John W.; and Horwitz, Lawrence B., 4,653,076, C
  375-115.000.

Horyu, Sakae: *See*—
  Miyazaki, Yasuko; Matsuoka, Mikiharu; Horyu, Sakae; Kanem
  Takashi; and Katayama, Hirohiko, 4,651,299, Cl. 364-900.00

Hosak-Robb, Barbara, to Robbe & Berking GmbH & Co. KG. Eati
implement. 4,707,922, 11-24-87, Cl. 30-322.000.

Hosaka, Akihito; and Kinoshita, Koichi, to Canon Kabushiki Kais
Non-contact development method and apparatus under tangenti
magnetic field and AC field. 4,653,427, 3-31-87, Cl. 118-658.000.

Hosaka, Akihito: *See*—
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  suo; Egami, Hidemi; and Hosaka, Akihito, 4,697,196, C
  346-159.000.

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Method and apparatus for engine knock level control. 4,640,25
2-3-87, Cl. 123-425.000.

Hosaka, Akio, to Nissan Motor Company, Limited. Output spe
dependent throttle control system for internal combustion engin
4,671,235, 6-9-87, Cl. 123-352.000.

Hosaka, Akio, to Nissan Motor Co., Ltd. Power train control meth
for slip prevention. 4,682,667, 7-28-87, Cl. 180-197.000.

Hosaka, Akio; and Takase, Sadao, to Nissan Motor Co., Ltd. Pow
train control method on common input data. 4,703,428, 10-27-87, C
364-424.100.

Hosaka, Atsushi: *See*—
  Nishii, Shigetoshi; Matsuoka, Toshimitsu; Tsuchida, Toshio; an
  Hosaka, Atsushi, 4,657,296, Cl. 296-1.00C.

Hosaka, Kenji: *See*—
  Tomita, Tomoya; Hiramoto, Sotozi; Okubo, Takesi; Matsu
  Kuniyuki; Ashihara, Hiromoto; Nakamura, Mitsuo; Takahas
  Tsutomu; Fujino, Motoaki; and Hosaka, Kenji, 4,637,134, C
  29-741.000.

, Masao; and Saito, Takashi, to Canon Kabushiki Kaisha. Image
essing apparatus. 4,711,560, 12-8-87, Cl. 355-14.00C.
, Masao: *See—*
ouc, Yutaka; Kurata, Mitsuru; Kasama, Nobuhiro; Hosaka,
Masao; Yagasaki, Toshiaki; Tanioka, Hiroshi; and Yamakawa,
Tadashi, 4,714,940, Cl. 355-3.00R.
nioka, Hiroshi; Yamakawa, Tadashi; Inoue, Yutaka; Hosaka,
Masao; Yagasaki, Toshiaki; Kasama, Nobuhiro; and Kurata,
Mitsuru, 4,646,249, Cl. 364-518.000.
a, Masato: *See—*
ui, Isao; Hosaka, Masato; Nakamoto, Mitsuyoshi; and Okamoto,
Kenji, 4,639,208, Cl. 431-1.000.
zuki, Juro; Nishino, Atsushi; Hosaka, Masato; Ono, Yukiyoshi;
and Takeuchi, Yasuhiro, 4,676,737, Cl. 431-328.000.
a, Masumi: *See—*
etoki, Iku; Suzuki, Akio; Yoshida, Eiji; Sato, Kiyoshi; and
Hosaka, Masumi, 4,659,654, Cl. 430-567.000.
etoki, Iku; Suzuki, Akio; Yoshida, Eiji; Sato, Kiyoshi; Hosaka,
Masumi; and Honda, Chika, 4,689,292, Cl. 430-567.000.
a, Nobuyoshi; Shimizu, Tasuku; Mikada, Kenzo; Tamura, Kozo;
Tanabe, Masatoshi, to Hitachi, Ltd. Water purifier. 4,678,571,
87, Cl. 210-202.000.
a, Shunichi; Kurabayashi, Hiroyuki; and Inose, Jun, to Fuji Photo
n Co., Ltd. Instant film unit. 4,668,602, 5-26-87, Cl. 430-207.000.
a, Shuntaro; and Murao, Yasuo, to Toray Industries, Incorpo-
d. Immunoparticles and process for preparing same. 4,656,144,
87, Cl. 436-534.000.
a, Shuroku; and Shiga, Masaaki, to Mitsubishi Denki Kabushiki
sha. Tunnel erase magnetic head assembly. 4,691,260, 9-1-87, Cl.
-121.000.
a, Sumio, to Pioneer Electronic Corporation. Information re-
ding and regenerating system. 4,688,107, 8-18-87, Cl. 358-342.000.
a, Sumio: *See—*
foriyama, Yoshiaki; and Hosaka, Sumio, 4,703,369, Cl.
358-343.000.
a, Takefumi: *See—*
ioto, Hiroshi; Kikuchi, Akira; Hibino, Yoshitaka; Totsune, Atsu-
shi; Kurihara, Norimitsu; Hosaka, Takefumi; and Kijima, Take-
shi, 4,661,760, Cl. 322-27.000.
oguchi, Kumio; Totsune, Atsushi; Kajita, Koji; and Hosaka,
Takefumi, 4,681,078, Cl. 123-490.000.
a, Yasuo, to Tokyo Shibaura Denki Kabushiki Kaisha. Solid state
ge sensor. 4,707,615, 11-17-87, Cl. 250-578.000.
a, Yasuo, to Tokyo Shibaura Denki Kabushiki Kaisha. CCD
lor image sensor with a light source having a spectrum distribution
aracteristic having peaks at 470 nm and 590 nm and having no
velengths above 700 nm. 4,716,456, 12-29-87, Cl. 358-75.000.
ka, Yasuo: *See—*
Sekizawa, Hidekazu; Yamada, Kiyoshi; Miura, Shuzo; and Hosaka,
Yasuo, 4,663,662, Cl. 358-75.000.
an, Hans-Josef: *See—*
Freitag, Herbert; Fuhrmann, Castor; and Hosan, Hans-Josef,
4,709,790, Cl. 188-300.000.
ch-Fordertechnik GmbH: *See—*
Schwarze, Hans-Otto, 4,696,389, Cl. 198-499.000.
h, Michael A.: *See—*
Dorner, Wolfgang C.; Hosch, Michael A.; and Wedell, Mark C.,
4,712,355, Cl. 53-443.000.
chek, Gunter: *See—*
Blauhut, Wilfried; Hoschek, Gunter; and Malojer, Robert,
4,706,531, Cl. 83-346.000.
eCo, Inc.: *See—*
Hoback, Gregory K., 4,655,064, Cl. 72-35.000.
el, Fritz; Marx, Hans-Jurgen; and Temburg, Josef, to Trutzschler
GmbH & Co. KG. Method for driving a bale opener. 4,712,275,
2-15-87, Cl. 19-80.00R.
el, Peter: *See—*
Klobenzer, Heinz; and Hosel, Peter, 4,686,049, Cl. 210-774.000.
selton, Richard, to Hoselton, Richard, and Murray, James D. Heated
team hose drum. 4,674,977, 6-23-87, Cl. 432-120.000.
semann, Rolf; Mayland, Walter; and Walter, Juergen, to Erno
Raumfahrttechnik GmbH. Non-destructive testing of fiber reinforced
tructural materials. 4,688,240, 8-18-87, Cl. 378-70.000.
sen Printing Co., Ltd.: *See—*
Watanabe, Yuki; and Tozaki, Hiroshi, 4,640,612, Cl. 355-87.000.
shal, Dale E., to Luma Guard, Inc. Reflectorized splash guard.
4,690,419, 9-1-87, Cl. 280-154.50R.
shi, Akimitsu: *See—*
Ishikawa, Tadashi; Matsuo, Kazuhiro; and Hoshi, Akimitsu,
4,709,915, Cl. 271-288.000.
shi, Akio; and Oura, Toshiyuki, to Hitachi, Ltd.; and Hitachi Tokyo
Electronics Co., Ltd. Container for electrical components. 4,702,371,
0-27-87, Cl. 206-328.000.
shi, Hideaki; Okumura, Jun; Naito, Takayuki; Abe, Yoshio; and
Aburaki, Shimpei, to Bristol-Myers Company. Substituted vinyl
ephalosporins. 4,661,590, 4-28-87, Cl. 540-215.000.
shi, Hideaki; Okumura, Jun; Naito, Takayuki; Abe, Yoshio; and
Aburaki, Shimpei, to Bristol-Myers Company. 7-amino-3-propenyl-
ephalosporanic acid and esters thereof. 4,699,979, 10-13-87, Cl.
40-215.000.
shi, Hideo: *See—*
Nanno, Ikuo; Morimoto, Yasuaki; Hoshi, Seiji; Wakui, Shinji; and
Hoshi, Hideo, 4,650,294, Cl. 350-484.000.
shi, Katsuhiko: *See—*
Ohya, Satoshi; and Hoshi, Katsuhiko, 4,674,292, Cl. 62-223.000.

Hoshi, Katsumasa, to Showa Denko Kabushiki Kaisha. Two-stage type of freely elongatable sucking pipe. 4,657,182, 4-14-87, Cl. 239-33.000.

Hoshi, Masakazu: *See—*
- Sasamoto, Yasuhiko; Atsumi, Takeo; Suzuki, Shin; and Hoshi, Masakazu, 4,666,720, Cl. 426-104.000.

Hoshi, Norio, to Honda Giken Kogyo Kabushiki Kaisha. Automotive vehicle. 4,655,310, 4-7-87, Cl. 180-219.000.

Hoshi, Seiji: *See—*
- Nanno, Ikuo; Morimoto, Yasuaki; Hoshi, Seiji; Wakui, Shinji; and Hoshi, Hideo, 4,650,294, Cl. 350-484.000.

Hoshi, Tai: *See—*
- Morita, Koyo; Nomura, Keizo; Nishizuka, Hiroshi; Hoshi, Tai; Tamiya, Yoichiro; and Asakawa, Terushige, 4,701,608, Cl. 250-205.000.

Hoshi, Toshiharu, to Nippon Gakki Seizo Kabushiki Kaisha. Conductive plate. 4,677,031, 6-30-87, Cl. 428-610.000.

Hoshi, Toshiharu, to Nippon Gakki Seizo Kabushiki Kaisha. Shadow mask for enhanced resolution and brightness in color cathode ray tubes. 4,707,633, 11-17-87, Cl. 313-402.000.

Hoshi, Yoshikazu: *See—*
- Takano, Yoshiya; Hoshi, Yoshikazu; Abe, Takao; and Tomozaki, Ryozoo, 4,687,425, Cl. 417-462.000.

Hoshi, Younosuke: *See—*
- Niwa, Kensuke; Fujita, Hisayoshi; Saito, Yoshihiko; Makihara, Hiroshi; Hashimoto, Ritsuo; Hoshi, Younosuke; and Murayama, Katsutoshi, 4,705,654, Cl. 261-128.000.

Hoshiai, Atsushi; and Endo, Hiroyuki, to Roland Corp. Waveform generating device for electronic musical instruments. 4,715,257, 12-29-87, Cl. 84-1.010.

Hoshiai, Takao: *See—*
- Nara, Toshio; Hobo, Sumiya; Kashiwada, Masao; Totsuka, Motoyuki; Hoshiai, Takao; Umetani, Katsutoshi; Akamatsu, Keisuke; Inada, Tomohide; and Takayama, Hisao, 4,639,220, Cl. 433-69.000.

Hoshiba, Akihiko; and Fujimoto, Hiroaki, to Sanshin Kogyo Kabushiki Kaisha. Crankshaft for an internal combustion engine with multiple cylinders. 4,699,098, 10-13-87, Cl. 123-192.00B.

Hoshiba, Hiroyuki: *See—*
- Matsumoto, Hisashi; Motogami, Yoshikazu; Miyahara, Masahiko; Inoue, Tokuta; Hasegawa, Kohichi; Aoki, Keiji; Ikeda, Shinji; Kawai, Mitsuo; Kobashi, Mamoru; Takata, Mamoru; Nagase, Masaomi; and Hoshiba, Hiroyuki, 4,665,740, Cl. 73-116.000.

Hoshida, Shigehiro: *See—*
- Ueno, Susumu; Hoshida, Shigehiro; and Nomura, Hirokazu, 4,664,936, Cl. 427-38.000.

Hoshii, Toshifumi: *See—*
- Fukaya, Hideshi; Hoshii, Toshifumi; and Yuzawa, Keiji, 4,633,751, Cl. 84-1.030.

Hoshika, Norihisa; Adachi, Hiroyuki; and Nakahata, Kimio, to Canon Kabushiki Kaisha. Image forming apparatus. 4,699,499, 10-13-87, Cl. 355-3.0CH.

Hoshikawa, Jun; and Iwashita, Yukihiro, to Kabushiki Kaisha Seiko Epson. Display panel having an inner and an outer seal and process for the production thereof. 4,640,583, 2-3-87, Cl. 350-343.000.

Hoshikawa, Jun, to Seiko Epson Kabushiki Kaisha. Liquid crystal display with barrier layer to reduce permeability. 4,709,991, 12-1-87, Cl. 350-339.00R.

Hoshikawa, Katsuyuki: *See—*
- Nakasaki, Eiji; Shirashoji, Hisashi; Hoshikawa, Katsuyuki; Kamijo, Takao; Ikeda, Kazushige; Inoue, Yasuhiro; and Kato, Takeo, 4,640,329, Cl. 152-209.00R.

Hoshikawa, Masao; Kyoto, Michihisa; Yano, Koji; and Tanaka, Gotaro, to Sumitomo Electric Industries, Ltd. Method for producing glass preform for optical fiber. 4,693,738, 9-15-87, Cl. 65-3.110.

Hoshina, Isamu: *See—*
- Shimoyama, Mamoru; and Hoshina, Isamu, 4,656,818, Cl. 53-551.000.

Hoshina, Takayuki; Takahashi, Michihisa; Rimoto, Masanori; and Nagamoto, Masanaka, to Ricoh Company, Ltd. Diazo-type thermosensitive recording material with hydrazone coupler and chelating metal compound. 4,659,644, 4-21-87, Cl. 430-182.000.

Hoshino, Akira: *See—*
- Samejima, Hiroshi; Hoshino, Akira; and Manabe, Seiichiro, 4,652,293, Cl. 65-134.000.

Hoshino Gakki Co., Ltd.: *See—*
- Hoshino, Masao, deceased; and Hoshino, Yoshihiro, legal representative, 4,681,011, Cl. 84-313.000.
- Hoshino, Yoshihiro, 4,640,175, Cl. 84-421.000.
- Hoshino, Yoshihiro; and Matsui, Kazuhiro, 4,696,218, Cl. 84-297.00R.
- Hoshino, Yoshihiro, 4,700,437, Cl. 24-456.000.
- Hoshino, Yoshihiro, 4,702,382, Cl. 211-134.000.
- Hoshino, Yoshiki; and Matsui, Kazuhiro, 4,648,304, Cl. 84-313.000.
- Hoshino, Yoshiki; and Matsui, Kazuhiro, 4,672,877, Cl. 84-299.000.
- Hoshino, Yoshiki, 4,693,160, Cl. 84-306.000.
- Matsui, Kazuhiro, 4,649,788, Cl. 84-297.00R.
- Matsui, Kazuhiro, 4,655,116, Cl. 84-312.00R.

Hoshino, Isamu: *See—*
- Moritani, Nakanobu; Sugita, Mitsuyuki; Hoshino, Isamu; Yanagi, Hirofumi; Ikeno, Hitoshi; and Konno, Tetsuro, 4,709,218, Cl. 331-116.0FE.
- Sugita, Mitsuyuki; and Hoshino, Isamu, 4,710,731, Cl. 331-158.000.

Hoshino, Kazuo: *See—*
- Deguchi, Takenori; Uchida, Kazuko; Ikita, Takao; Maruhashi, Shigeaki; Hoshino, Kazuo; and Oosaki, Keiji, 4,696,724, Cl. 204-27.000.

- Maruhashi, Shigeaki; Hoshino, Kazuo; Uematsu, Yoshihiro; Miyakusu, Katsuhisa; and Fujimura, Takehiko, 4,652,428, Cl. 420-42.000.
- Hoshino, Kazuya; Yamada, Noriaki; Yoshitome, Eiji; Sugiyama, Tadashi; and Matsuura, Hiroyuki, to Yokogawa Hokushin Electric Corporation; and Yokogawa Medical Systems, Limited. Diagnostic apparatus employing nuclear magnetic resonance. 4,644,279, 2-17-87, Cl. 324-309.000.
- Hoshino, Kazuya; and Matsuura, Hiroyuki, to Yokogawa Electric Corporation; and Yokogawa Medical Systems, Limited. Method of correcting the phase and shading in a nuclear magnetic resonance tomographic device. 4,713,614, 12-15-87, Cl. 324-307.000.
- Hoshino, Kazuya: *See—*
  - Yamada, Noriaki; Hoshino, Kazuya; Sugiyama, Tadashi; and Matsuura, Hiroyuki, 4,656,426, Cl. 324-309.000.
  - Yamaguchi, Keiki; Hoshino, Kazuya; and Iwaoka, Hideto, 4,684,889, Cl. 324-308.000.
  - Yoshitome, Eiji; and Hoshino, Kazuya, 4,694,251, Cl. 324-309.000.
- Hoshino, Kinshiro: *See—*
  - Ono, Shuichi; Aida, Satoru; and Hoshino, Kinshiro, 4,672,796, Cl. 53-449.000.
- Hoshino Kougiyo Co., Ltd.: *See—*
  - Inada, Yasuo; Sato, Koki; Fujii, Takazo; Yokoyama, Hideo; Takahashi, Shoichi; Mizutani, Kiyoshi; Kawashima, Takayoshi; and Nagawa, Akira, 4,664,333, Cl. 242-107.40A.
- Hoshino, Kunihisa: *See—*
  - Ogasawara, Akira; Watanabe, Sakuji; Terui, Nobuhiro; Utagawa, Ken; and Hoshino, Kunihisa, 4,634,851, Cl. 250-204.000.
- Hoshino, Masaaki; and Kawakami, Itaru, to Sony Corporation. Color graphics data processing apparatus. 4,689,669, 8-25-87, Cl. 358-80.000.
- Hoshino, Masao, deceased; and Hoshino, Yoshihiro, legal representative, to Hoshino Gakki Co., Ltd. Tremolo arm mounting for stringed instrument. 4,681,011, 7-21-87, Cl. 84-313.000.
- Hoshino, Minoru: *See—*
  - Kawai, Yoichi; Abe, Masaru; Maki, Masami; Suzuki, Koutarou; and Hoshino, Minoru, 4,663,369, Cl. 523-203.000.
- Hoshino, Noriyuki: *See—*
  - Takenaka, Hiroyuki; Shigemura, Tatsuhiko; Waseda, Masashi; Miura, Toshiaki; Hoshino, Noriyuki; and Nakashima, Mitsunori, 4,704,034, Cl. 356-429.000.
- Hoshino, Ryoichi: *See—*
  - Okamoto, Masayoshi; Suzuki, Katsuhisa; Hoshino, Ryoichi; and Sasaki, Hironaka, 4,712,612, Cl. 165-146.000.
- Hoshino, Shigeo, to Nissan Motor Co., Ltd. Semiconductor vibration detecting structure. 4,672,849, 6-16-87, Cl. 73-579.000.
- Hoshino, Shigeo. Method and apparatus for electroplating objects. 4,713,149, 12-15-87, Cl. 204-23.000.
- Hoshino, Shigeo: *See—*
  - Laitinen, Herbert A.; and Hoshino, Shigeo, 4,690,735, Cl. 204-37.100.
- Hoshino, Shigeru; and Miyata, Hiroshi, to Toyota Jidosha Kabushiki Kaisha. Apparatus for detecting a steering angle and a steering angular velocity. 4,683,375, 7-28-87, Cl. 250-231.0SE.
- Hoshino, Shigeru; and Sato, Teruo, to Nippon Power Engineering Co., Ltd. Laser measuring device. 4,703,563, 11-3-87, Cl. 33-227.000.
- Hoshino, Shiro; and Fujino, Bompei, to Tomy Kogyo Co. Inc. Toy linkage. 4,680,022, 7-14-87, Cl. 446-487.000.
- Hoshino, Takashi, to Bridgestone Corporation. Rubber composition for tire inner liner. 4,714,732, 12-22-87, Cl. 524-474.000.
- Hoshino, Takashi: *See—*
  - Okamoto, Hiroo; Arai, Takao; and Hoshino, Takashi, 4,682,152, Cl. 340-3'7.0DD.
- Hoshino, Takehiko, to Nippon Signal Co., Limited, The. Signal processing apparatus. 4,658,364, 4-14-87, Cl. 364-484.000.
- Hoshino, Teruaki; and Kamiji, Koichi, to Japan Aviation Electronics Industry Limited; and Honda Giken Kogyo Kabushiki Kaisha. Connector assembly. 4,674,814, 6-23-87, Cl. 439-586.000.
- Hoshino, Yasutaka: *See—*
  - Wyatt, Richard G.; Kapikian, Albert Z.; Chanock, Robert M.; Midthun, Karen; Flores, Jorge; and Hoshino, Yasutaka, 4,704,275, Cl. 424-89.000.
- Hoshino, Yoshihiro, to Hoshino Gakki Co., Ltd. Support leg for bass drum. 4,640,175, 2-3-87, Cl. 84-421.000.
- Hoshino, Yoshihiro; and Matsui, Kazuhiro, to Hoshino Gakki Co., Ltd. Fastening means for guitar strings. 4,696,218, 9-29-87, Cl. 84-297.00R.
- Hoshino, Yoshihiro, to Hoshino Gakki Co., Ltd. Lever lock clamp. 4,700,437, 10-20-87, Cl. 24-456.000.
- Hoshino, Yoshihiro, to Hoshino Gakki Co., Ltd. Erectable display structure with repositionable display shelf sections. 4,702,382, 10-27-87, Cl. 211-134.000.
- Hoshino, Yoshihiro: *See—*
  - Yamasaki, Nakamichi; Kubota, Takeshi; Hoshino, Yoshihiro; and Tanuma, Hiroyuki, 4,661,291, Cl. 252-629.000.
- Hoshino, Yoshihiro, legal representative: *See—*
  - Hoshino, Masao, deceased; and Hoshino, Yoshihiro, legal representative, 4,681,011, Cl. 84-313.000.
- Hoshino, Yoshiki; and Matsei, Kazuhiro, to Hoshino Gakki Co., Ltd. Tremolo device for a guitar. 4,648,304, 3-10-87, Cl. 84-313.000.
- Hoshino, Yoshiki; and Matsui, Kazuhiro, to Hoshino Gakki Co., Ltd. Tailpiece of a guitar. 4,672,877, 6-16-87, Cl. 84-299.000.
- Hoshino, Yoshiki, to Hoshino Gakki Co., Ltd. Mechanism for tensioning strings of headless guitars. 4,693,160, 9-15-87, Cl. 84-306.000.
- Hoshino, Yukio: *See—*
  - Takagi, Masayoshi; Hoshino, Yukio; and Yamauchi, Hiroki, 4,713,876, Cl. 29-568.000.
- Hoshinouchi, Susumu; Kanaoka, Masaru; and Fukada, Atsushi, to Mitsubishi Denki Kabushiki Kaisha. Laser-beam operated machining apparatus. 4,689,466, 8-25-87, Cl. 219-121.00L.
- Hoshinouchi, Susumu: *See—*
  - Kawazu, Akinobu; Fukada, Atsushi; and Hoshinouchi, Susumu, 4,686,349, Cl. 219-121.00L.
  - Sakuma, Hisayuki; and Hoshinouchi, Susumu, 4,638,145, Cl. 219-121.0LU.
- Hoshizaki Electric Co., Ltd.: *See—*
  - Hida, Junichi; Tsukiyama, Yasumitsu; Kito, Yoshikazu; and Tatematsu, Susumu, 4,644,757, Cl. 62-188.000.
  - Kito, Yoshikazu, 4,715,194, Cl. 62-347.000.
  - Sakai, Tadashi; and Suyama, Tomio, 4,669,276, Cl. 62-347.000.
  - Tsukiyama, Yasumitsu; Kito, Yoshikazu; and Tatematsu, Susumu, 4,662,182, Cl. 62-137.000.
- Hoshizaki, Hiroki; Suzuki, Hirofumi; Kageyama, Terutaka; and Oyobe, Kazuo, to Nippondenso Co., Ltd. Ceramic heater and a process for producing the same. 4,652,727, 3-24-87, Cl. 219-541.000.
- Hoshizaki, Hiroki; Kawahara, Nobuaki; Suzuki, Hirofumi; and Oyobe, Kazuo, to Nippondenso Co., Ltd. Ceramic heater. 4,711,990, 12-8-87, Cl. 219-552.000.
- Hoshowski, Myra A.; and Patel, Chaitanya, to Helene Curtis, Inc. Dye-conditioner composition that is non-staining to skin containing a certified violet dye and a quaternary ammonium compound. 4,678,475, 7-7-87, Cl. 8-606.000.
- Hosiden Electronics Co., Ltd.: *See—*
  - Aoki, Shigeo; Tamamura, Junichi; and Ukai, Yasuhiro, 4,644,3 Cl. 340-719.000.
  - Aoki, Shigeo; Tamamura, Junichi; and Ukai, Yasuhiro, 4,654,1 Cl. 156-659.100.
  - Aoki, Shigeo; Ugai, Yasuhiro; Miyake, Katsumi; and Okamoto, Kotaro, 4,687,298, Cl. 350-334.000.
  - Ezure, Tadayoshi; and Sekiguchi, Shigemi, 4,684,199, Cl. 439-610.000.
  - Ichitsubo, Norio, 4,695,108, Cl. 439-59.000.
  - Inaba, Hirofumi; and Watanabe, Yasumasa, 4,649,315, Cl. 313-325.000.
  - Iwasa, Yoshihiro; Masuda, Toru; and Shibano, Yasuji, 4,715,3 Cl. 439-31.000.
  - Masuda, Toru, 4,659,167, Cl. 339-182.00R.
  - Masuda, Toru, and Shibano, Yasuji, 4,685,212, Cl. 29-876.000.
  - Okamoto, Kotaro, 4,679,062, Cl. 357-22.000.
  - Shibano, Yasuji, 4,660,920, Cl. 339-176.0MP.
  - Shichida, Akihito, 4,710,139, Cl. 439-668.000.
  - Sorimachi, Mitsuo; and Sato, Mamoru, 4,661,667, Cl. 200-314.00.
  - Tajima, Kyousuke, 4,637,669, Cl. 339-14.00R.
  - Tajima, Kyousuke; and Kanuma, Satoru, 4,650,270, Cl. 3 143.00R.
  - Tanaka, Masanori, 4,711,506, Cl. 439-108.000.
  - Yoshida, Noboru, 4,685,758, Cl. 439-606.000.
- Hosilyk, Randall E.; Marley, David J.; and Hosilyk, Rodney E., to Rosstream Research Associates, Ltd. Tape picker and cleaner. 4,635,876, 1-13-87, Cl. 242-195.000.
- Hosilyk, Rodney E.: *See—*
  - Hosilyk, Randall E.; Marley, David J.; and Hosilyk, Rodney E., 4,635,876, Cl. 242-195.000.
- Hoskin, Dennis H., and Rollmann, Louis D., to Mobil Oil Corporation. Polysilicate esters for oil reservoir permeability control. 4,660,64 4-28-87, Cl. 166-270.000.
- Hoskin, William J., and Pierse, Dermot J., to Micra Ltd. Forceps. 4,671,283, 6-9-87, Cl. 128-354.000.
- Hosking, Michael B., to General Dynamics, Electronics Division. Electronic equipment rack interconnection system. 4,686,60 8-11-87, Cl. 361-428.000.
- Hoskins, John T.; Zillig, Steven R.; and Caroll, James E., to Hoskins, John T., and Zillig, Robert G. Fluid coupling assembly. 4,640,51 2-3-87, Cl. 285-158.000.
- Hoskins Limited: *See—*
  - Speed, Philip, 4,639,954, Cl. 5-63.000.
- Hoskins Manufacturing Company: *See—*
  - Lachman, John C.; Moorman, Lewis B.; and Bosak, Alan A., 4,633,918, Cl. 140-71.00R.
- Hoskins, Michael K., to Ciba Corning Diagnostics Corp. Liquid clinical control, standard, and reagent products. 4,643,976, 2-17-87, Cl. 436-15.000.
- Hoskins, Michael K., to Ciba-Corning Diagnostics Corp. Liquid clinical control standard, and reagent products. 4,678,754, 7-7-87, Cl. 436-15.000.
- Hoskins, Michael K., to Ciba Corning Diagnostics Corp. Stabilized isoenzyme control products. 4,684,615, 8-4-87, Cl. 436-16.000.
- Hoskins, Michael K.: *See—*
  - Vail, Martha; Megraw, Robert E.; and Hoskins, Michael K., 4,663,295, Cl. 436-18.000.
- Hoskins, Ralph G. Redirecting bullet machine. 4,708,050, 11-24-87, Cl. 89-36.040.
- Hoskinson, Gordon H. Improved stack construction for an incinerator. 4,674,417, 6-23-87, Cl. 110-214.000.
- Hoskinson, John D.: *See—*
  - Rasmussen, Harry R.; Percival, Dan M.; Hoskinson, John D.; and Nickerson, Charles, 4,653,094, Cl. 379-396.000.
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  - Tada, Seiichi; and Hosoai, Yasuhisa, 4,677,163, Cl. 525-190.000.

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Takao, 4,670,180, Cl. 252-180.000.

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Fukasawa, Atsushi; Hosoda, Kenichiro; Miyamoto, Ryoichi; Ando,
Hiromi; and Kawaguchi, Shinji, 4,660,163, Cl. 364-724.000.
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Kanno, Masahide; Amano, Atsushi; Hosoda, Seiichi; and Hattori,
Shinichiro, 4,704,520, Cl. 250-205.000.

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Osamu; Morishita, Hirosada; and Hosoda, Tooru, 4,680,058, Cl.
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Kazuya; and Urushibara, Kazunori, 4,658,304, Cl. 358-310.000.

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Goto, Hideo; Hosoe, Takeo; and Oda, Toshinori, 4,656,078, Cl.
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Nakamura, Shunji; and Nakahata, Kimio, 4,660,958, Cl. 355-3.0DD.
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Tajima, Hatsuo; and Nakahata, Kimio, 4,638,760, Cl.
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oi, Hiroomi: *See—*
Nomura, Masaharu; Tsugawa, Hiroaki; Ishizaka, Yukio; and Hosoi,
Hiroomi, 4,682,192, Cl. 503-200.000.

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Kano, Hidekazu; Shinchi, Takashi; and Hosoi, Shuichi, 4,711,217,
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Hosoi, Yukiharu, to Yamaha Hatsudoki Kabushiki Kaisha. Four cycle internal combustion engine. 4,658,780, 4-21-87, Cl. 123-315.000.

Hosokawa, Akio: *See—*
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Hosokawa, Ichiro, to Yokohama Rubber Co., Ltd., The. Pneumatic radial tire tread for heavy load. 4,635,694, 1-13-87, Cl. 152-209.00A

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Hirotsuka, Motohiko; Harada, Tetsuro; Ohtsubo, Nobuhiro; Kawade, Hiroyuki; Hayakawa, Yoshiyuki; and Taniguchi, Hitoshi, 4,702,927, Cl. 426-467.000.

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Kawamura, Yoshikazu; Hosokawa, Minoru; Okazaki, Sakiho; and Ishii, Hiroshi, 4,715,725, Cl. 368-157.000.
Oguchi, Koichi; Hosokawa, Minoru; Yazawa, Satoru; and Nagata, Mitsuo, 4,648,691, Cl. 350-338.000.

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Isogai, Nobuo; Hosokawa, Motoyuki; Okawa, Takashi; Wakui, Natsuko; and Watanabe, Toshiyasu, 4,650,911, Cl. 568-902.000.
Isogai, Nobuo; Okawa, Takashi; Hosokawa, Motoyuki; Tsuji, Tomoji; and Wakui, Natsuko, 4,678,858, Cl. 568-902.000.

Hosokawa, Takao: *See—*
Saito, Shigeki; Hosokawa, Takao; and Mae, Masataka, 4,708,885, Cl. 427-58.000.

Hosokawa Yoko Co., Ltd.: *See—*
Kimura, Kinichi, 4,669,124, Cl. 383-80.000.

Hosokawa, Yorio; and Sakamoto, Shotaka, to Kabushiki Kaisha Toshiba. Robot joint angle detecting system. 4,672,279, 6-9-87, Cl. 318-568.000.

Hosokawa, Yoshikazu: *See—*
Shirasawa, Toshikatsu; and Hosokawa, Yoshikazu, 4,654,691, Cl. 357-53.000.

Hosokawa, Yoshinori: *See—*
Kumakura, Koichi; and Hosokawa, Yoshinori, 4,691,793, Cl. 177-50.000.
Kumakura, Koichi; Ryuzono, Akira; and Hosokawa, Yoshinori, 4,692,935, Cl. 378-49.000.

Hosokawa, Yoshiteru: *See—*
Asada, Takafumi; Yoshida, Cyuryo; Shioyama, Tadao; and Hosokawa, Yoshiteru, 4,706,144, Cl. 360-107.000.

Hosomi, Hisashi: *See—*
Suzuki, Yoshio; Yamamoto, Mitsuoki; and Hosomi, Hisashi, 4,692,065, Cl. 405-211.000.
Suzuki, Yoshio; Suzuki, Yoshio; Saitoh, Satoshi; Yamamoto, Mituoki; and Hosomi, Hisashi, 4,693,637, Cl. 405-224.000.

Hosomi, Nobuyuki: *See—*
Matsuda, Toshiharu; Saho, Norihide; Imamura, Minoru; and Hosomi, Nobuyuki, 4,667,477, Cl. 62-55.500.

Hosomizu, Hiroshi; Tsuji, Kenji; and Kamiya, Makoto, to Minolta Camera Kabushiki Kaisha. Device for indicating an object distance for flash photography. 4,712,902, 12-15-87, Cl. 354-416.000.

Hosono, Chihiro; Hayakawa, Yoichi; Kubo, Seitoku; Taga, Yutaka; and Nakamura, Shinya, to Aisin-Warner Limited; and Toyota Motor Corporation. 4-Wheel drive transmission control system. 4,673,072, 6-16-87, Cl. 192-3.570.

Hosono, Hideo: *See—*
Abe, Yoshihiro; and Hosono, Hideo, 4,703,019, Cl. 501-13.000.

Hosono, Masami: *See—*
Narita, Yasuhide; Shirai, Noboru; Kohro, Chihaya; and Hosono, Masami, 4,679,861, Cl. 301-37.00P.

Hosono, Nagao; Nagase, Yukio; Takeuchi, Tatsuo; Egami, Hidemi; and Satomura, Hiroshi, to Canon Kabushiki Kaisha. Method and device for charging or discharging a member. 4,709,298, 11-24-87, Cl. 361-213.000.

Hosono, Nagao: *See—*
Satomura, Hiroshi; Takeuchi, Tatsuo; Egami, Hidemi; Nagase, Yukio; and Hosono, Nagao, 4,674,857, Cl. 355-3.00R.

Hosono, Takashi; and Tohyama, Akira, to Sony Corporation. Deflection control apparatus for a beam index color television receiver. 4,636,843, 1-13-87, Cl. 358-67.000.

Hosono, Yoichi: *See—*
Ozawa, Hiroshi; Hosono, Yoichi; Hirose, Sumio; Sasagawa, Katsuyoshi; and Imai, Masao, 4,707,430, Cl. 430-270.000.

Hosonuma, Sin; Fujio, Junichi; Tanaka, Kozo; Suzuki, Harue; and Baba, Kenichi, to Mitsui Toatsu Chemicals, Inc. Polarizing film. 4,643,529, 2-17-87, Cl. 350-337.000.

Hosotani, Kenji: *See—*
Fujiwara, Shuetsu; Andoh, Naoki; and Hosotani, Kenji, 4,684,738, Cl. 549-242.000.

Hosotani, Makoto: *See—*
Kawakami, Michio; Araki, Yoshima; Murakami, Kenkichi; Oikawa, Hidetoshi; Nakanishi, Michio; and Hosotani, Makoto, 4,659,786, Cl. 525-415.000.
Hosotani, Takashi, to Nissan Motor Co., Ltd. Full hydraulic power steering system. 4,703,819, 11-3-87, Cl. 180-132.000.
Hosoya, Eiji: *See—*
Imaizumi, Masahiro; Masumura, Masanori; Ishikawa, Takeshi; and Hosoya, Eiji, 4,635,506, Cl. 74-745.000.
Imaizumi, Masahiro; Masumura, Masanori; Ishikawa, Takeshi; and Hosoya, Eiji, 4,655,309, Cl. 180-215.000.
Hosoya, Jun, to Canon Kabushiki Kaisha. Projection lens. 4,682,861, 7-28-87, Cl. 350-432.000.
Hosoya, Kiyoshi: *See—*
Yagishita, Shigelu; Hosoya, Kiyoshi; Okumoto, Tadaoki; and Sugimoto, Masatoshi, 4,650,834, Cl. 525-386.000.
Hosoya, Masahiro; Uehara, Tsutomu; and Tomura, Shinya, to Kabushiki Kaisha Toshiba. Developing apparatus. 4,656,965, 4-14-87, Cl. 118-649.000.
Hosoya, Nobukazu; Murakami, Yoshihiro; Higashino, Takeshi; and Harai, Yoshihiro, to Sanyo Electric Co., Ltd. Delay circuit with phase comparator and temperature compensator for maintaining a constant delay time. 4,652,778, 3-24-87, Cl. 307-603.000.
Hosoya, Takamasa: *See—*
Takamura, Koji; Hosoya, Takamasa; and Kobayashi, Kazunari, 4,697,894, Cl. 350-574.000.
Hosoya, Tomohisa, to Sun Pack Co., Ltd.; and Minami Seiki Co., Ltd. Folded shipping form. 4,688,826, 8-25-87, Cl. 283-79.000.
Hosoya, Yoshinori; Tunekawa, Shyozi; Yamada, Wazoh; and Shiraishi, Akira, to Sanyo Electric Co., Ltd.; and Tokyo Sanyo Electric Co., Ltd. Packaged terminal air-conditioner. 4,637,223, 1-20-87, Cl. 62-263.000.
Hospal A.G.: *See—*
Aldrovandi, Mauro; and Facchini, Mauro, 4,668,945, Cl. 340-621.000.
Aldrovandi, Mauro; Cianciavicchia, Domenico; and Pedrazzi, Renato, 4,702,675, Cl. 417-63.000.
Cianciavicchia, Domenico; and Franceschini, Stefano, 4,673,927, Cl. 340-621.000.
Hospers, Martin: *See—*
Olofsson, Lars; and Hospers, Martin, 4,681,241, Cl. 221-124.000.
Hoss, Donald A., to Chrysler Motors Corporation. Shipping unit. 4,685,571, 8-11-87, Cl. 206-583.000.
Hoss, Donald A., to Chrysler Motors Corporation. Shipping rack convertible to first and second lengths. 4,699,280, 10-13-87, Cl. 211-195.000.
Hoss, Donald A.: *See—*
Keenan, Daniel J.; and Hoss, Donald A., 4,714,169, Cl. 220-8.000.
Hossack, James M., to Ultrasonic Arrays, Inc. Ultrasonic transducer component and process for making the same and assembly. 4,695,986, 9-22-87, Cl. 367-140.000.
Hossler, Phillip. Modular splint system. 4,699,130, 10-13-87, Cl. 128-89.00R.
Hossner, Klaus: *See—*
Sondergeld, Manfred A. J.; Dudek, Dietmar; and Hossner, Klaus, 4,683,190, Cl. 430-281.000.
Hossom, Miles G., to Murex Corporation. Transverse flow diagnostic kit. 4,693,834, 9-15-87, Cl. 210-767.000.
Hostetler, Delmar G.: *See—*
Forpahl, Raye E.; Hostetler, Dewey L.; and Hostetler, Delmar G., 4,707,971, Cl. 56-6.000.
Hostetler, Dewey L.: *See—*
Forpahl, Raye E.; Hostetler, Dewey L.; and Hostetler, Delmar G., 4,707,971, Cl. 56-6.000.
Hostetler, Donald E.: *See—*
Harris, James J.; Hostetler, Donald E.; and Achorn, G. Stanley, 4,681,924, Cl. 526-125.000.
Hostetler, Eldon, to Ziggity Systems, Inc. Watering system for fowl and small animals. 4,637,345, 1-20-87, Cl. 119-72.500.
Hostetler, Eldon, to Ziggity Systems, Inc. Poultry drinker device. 4,656,970, 4-14-87, Cl. 119-75.000.
Hostetler, Eldon, to Ziggity Systems, Inc. Cage anchor for watering device. 4,709,658, 12-1-87, Cl. 119-18.000.
Hostetler, Karl Y.; and Deftos, Leonard J., to University of California, The Regents of the. Method and composition for regulating serum calcium levels of mammals. 4,692,433, 9-8-87, Cl. 514-12.000.
Hostetler, Michael S.: *See—*
Gudaitis, Donald A.; McCaskey, John P.; and Hostetler, Michael S., 4,688,168, Cl. 364-200.000.
Hostetler, Ruby M. Sewing thimble. 4,643,341, 2-17-87, Cl. 223-101.000.
Hosztafi, Sandor; Timar, Tibor; Salamon, Zoltan; Fabian nee Orban, Ilona; and Nagy nee Vajda, Julianna, to Alkaloida Vegyeszeti Gyar. Process for the preparation of D1-β-aryl amino acids. 4,647,694, 3-3-87, Cl. 562-443.000.
Hotai, Kazuhide: *See—*
Makino, Yoshimi; Ochiai, Yoshitaka; Uedaira, Satoru; Hotai, Kazuhide; Aso, Koichi; and Hayakawa, Masatoshi, 4,639,278, Cl. 148-108.000.
Hotaka, Nobuhiro, to Shinaro Electric Co., Ltd. Inverter system. 4,660,137, 4-21-87, Cl. 363-56.000.
Hotaka, Nobuhiro: *See—*
Sekino, Yoshihiro; Aoki, Masayuki; and Hotaka, Nobuhiro, 4,646,221, Cl. 363-41.000.
Hotaling, Robert A.: *See—*
Weir, Donald H.; Frederick, Stanley H.; Hotaling, Robert A.; and Robol, Ronald B., 4,661,247, Cl. 210-97.000.
Weir, Donald H.; Frederick, Stanley H.; Hotaling, Robert A.; and Robol, Ronald B., 4,705,629, Cl. 210-340.000.
Hotate, Makoto; Nishikawa, Toshio; and Tabara, Yoshitaka, to Mazda Motor Corporation. Air-fuel ratio control for internal combustion engine. 4,662,339, 5-5-87, Cl. 123-486.000.
Hotate, Makoto; Kaneko, Tadashi; Nishikawa, Toshio; Nakazumi, Tadataka; and Takeuchi, Nobuo, to Mazda Motor Corporation. Engine idling load control means. 4,682,044, 7-21-87, Cl. 290-40.00B.
Hotate, Makoto; Nishikawa, Toshio; Takeuchi, Kobuo; Okuno, Itaru; and Nakazumi, Tadataka, to Mazda Motor Corp. Throttle valve control system for internal combustion engine. 4,691,677, 9-8-87, Cl. 123-399.000.
Hotate, Makoto: *See—*
Matsuura, Masahiko; Kaneko, Tadashi; Kaide, Tadayoshi; and Hotate, Makoto, 4,633,841, Cl. 123-492.000.
Takeuchi, Nobuo; Hotate, Makoto; Kaneko, Tadashi; and Nishikawa, Toshio, 4,665,878, Cl. 123-492.000.
Hotchkin, Glenn T.; Mortensen, David J.; and Sheth, Jayesh V., to Burroughs Corporation. System for regulating data transfer operations. 4,644,463, 2-17-87, Cl. 364-200.000.
Hotchkiss, Kenneth W.; and Woodward, Arthur B., to Proto-Tel, Inc. Terminal block cover. 4,697,720, 10-6-87, Cl. 220-337.000.
Hotine, William. Pulsed bi-phase digital modulator system. 4,656,64 4-7-87, Cl. 375-52.000.
Hotovy, Robert, to Creation Windows, Inc. Frame with decorative trim strip. 4,636,421, 1-13-87, Cl. 428-156.000.
Hotset Heizpatronen und Zubehor GmbH: *See—*
Schwarzkopf, Eugen, 4,642,043, Cl. 425-547.000.
Hotsuki, Hideki: *See—*
Tokuoka, Yasumichi; Arai, Hitoshi; Higuchi, Norio; and Hotsuki, Hideki, 4,670,337, Cl. 428-323.000.
Hotta, Hajime: *See—*
Nakamura, Koichi; Hattori, Michihiro; Tamura, Tadashi; Tejima, Toru; Takaishi, Naotake; Imokawa, Genji; and Hotta, Hajime, 4,710,373, Cl. 424-59.000.
Hotta, Hisaharu: *See—*
Kobayashi, Yoshimichi; and Hotta, Hisaharu, 4,696,991, Cl. 528-45.000.
Hotta, Hisashi: *See—*
Kitamura, Yoichi; and Hotta, Hisashi, 4,650,700, Cl. 427-255.60
Kitamura, Yoichi; Hotta, Hisashi; and Kodaira, Toshimasa, 4,701,354, Cl. 427-255.600.
Hotta, Junichi: *See—*
Ida, Shuichiro; Shimizu, Katsumi; and Hotta, Junichi, 4,676,114, Cl. 74-335.000.
Hotta, Tadahiko, to Nippon Gakki Seizo Kabushiki Kaisha. Method of producing semiconductor integrated circuit having parasitic channel stopper region. 4,710,265, 12-1-87, Cl. 437-29.000.
Hotta, Tetsuya: *See—*
Inokuchi, Kiyoshi; Sugimachi, Keizo; Shirakami, Toshiharu; Ka- Hidenobu; Kawai, Yoshio; and Hotta, Tetsuya, 4,676,25 Cl. 128-804.000.
Sogawa, Akira; Inokuchi, Kiyoshi; Sugimachi, Keizo; Ka- Hidenobu; Hotta, Tetsuya; and Kawai, Yoshio, 4,662,383, Cl. 128-784.000.
Hotta, Tomiji: *See—*
Nishida, Fumihiko; Shimizu, Yasumasa; Yoshida, Tomohiro; Urata, Makoto; Hotta, Tomiji; Mizuta, Masaji; and Yamashita, Hiroshi, 4,679,930, Cl. 355-52.000.
Hotta, Toshihiro: *See—*
Sudo, Michio; Hotta, Toshihiro; and Imazato, Minoru, 4,665,5 Cl. 310-68.00R.
Hotta, Toshinori; and Ishi, Yuuhei, to NEC Corporation. Supervising and controlling system for a communication station in a TDMA communication system. 4,656,619, 4-7-87, Cl. 370-13.000.
Hotta, Toshinori. Synchronizing burst transmission phase control system. 4,686,673, 8-11-87, Cl. 370-104.000.
Hotta, Toshinori, to NEC Corporation. Method of initially establishing burst acquisition in TDMA satellite communications system and arrangement therefor. 4,689,787, 8-25-87, Cl. 370-104.000.
Hotta, Yasunari: *See—*
Akiyama, Takashi; Hotta, Yasunari; and Oda, Naonobu, 4,701,372, Cl. 428-323.000.
Shirasaki, Shin-ichi; Hotta, Yasunari; Yamamura, Hiroshi; Matsuda, Shin-ichi; Kakegawa, Kazuyuki; Moriyoshi, Yusuke; Takahashi, Koichiro; and Haneda, Hajime, 4,696,810, Cl. 423-593.000.
Hotta, Yoshiji; Kuroda, Kunishige; Kimura, Hiroshi; Hara, Nobuhiro; and Tada, Naofumi, to Hitachi, Ltd. Forced flow cooling-type superconducting coil apparatus. 4,692,560, 9-8-87, Cl. 174-15.0CA.
Hotta, Yuji: *See—*
Koshizuka, Kunihiro; Kitamura, Shigehiro; Abe, Takao; Nakamura, Masaki; Ishii, Fumio; and Hotta, Yuji, 4,643,917, Cl. 427-256.000.
Hottel, Hoyt C.; Nelson, Robert E.; and Parent, C. Robert, to TPV Energy Systems, Inc. Thermophotovoltaic technology. 4,707,560, 11-17-87, Cl. 136-253.000.
Hottinger Baldwin Measurements, Inc.: *See—*
Kreuzer, Manfred, 4,644,262, Cl. 324-62.000.
Hotto, Robert: *See—*
Storch, Leonard; and Hotto, Robert, 4,642,624, Cl. 340-735.000.
Hottori, Makoto; and Yamanaka, Shoji, to Daicel Chemical Industries, Ltd. Electrochromic material and lubricant. 4,707,283, 11-17-87, Cl. 252-25.000.
Hottovy, John D.: *See—*
Stewart, William S.; and Hottovy, John D., 4,654,801, Cl. 364-500.000.

ewart, William S.; Hottovy, John D.; and Blaesi, John E., 4,676,870, Cl. 159-17.100.

Jean-Marie: *See*—
ock, Elmar; and Hotz, Jean-Marie, 4,700,874, Cl. 224-178.000.
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Rainer; and Muszkiewicz, Herbert, to Hoesch Aktiengesellschaft. hod and apparatus for treating moist dust and mud in the steel stry. 4,661,243, 4-28-87, Cl. 209-10.000.

Robert B.: *See*—
itten, Mark A.; Hotze, Robert B.; and Stephenson, Leonard E., 4,697,767, Cl. 244-158.00R.

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Ritsko, Joseph E.; Port, David J.; and Houck, David L., 4,684,400, Cl. 75-0.5AB.
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Hough, Harold L.; and Bonazoli, Robert P., to GTE Products Corporation. Thermal protector for circular fluorescent lamp assembly. 4,649,320, 3-10-87, Cl. 315-100.000.

Hough, Louis E., to Empire Automotive, Inc. Sunroof frame assembly for vehicles. 4,666,206, 5-19-87, Cl. 296-216.000.

Hough Manufacturing Corporation: *See*—
Williams, Charles E., 4,658,878, Cl. 160-84.00V.

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Houghtaling, Steven W., to Azygous. Seismic line amplifier. 4,706,226, 11-10-87, Cl. 367-66.000.

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Vaughan, John H.; Carson, Dennis A.; Rhodes, Gary; and Houghten, Richard, 4,654,419, Cl. 530-326.000.
Zimmerman, Theodore S.; Ruggeri, Zaverio M.; and Houghten, Richard, 4,683,291, Cl. 530-324.000.

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Elder, John H.; and Houghten, Richard A., 4,663,436, Cl. 530-324.000.
Shinnick, Thomas M.; Minden, Percy; and Houghten, Richard A., 4,689,397, Cl. 530-327.000.
Weigle, William O.; Hobbs, Monte G.; Morgan, Edward L.; Thoman, Marilyn L.; and Houghten, Richard A., 4,683,221, Cl. 514-14.000.

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Houghton, Alan N.: *See*—
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Houghton, Andrew J. N., to British Telecommunications plc. Production of semiconductor devices. 4,647,339, 3-3-87, Cl. 156-643.000.

Houghton, Benjamin T., to Emdine Incorporated. Adjustable double-acting damper. 4,709,791, 12-1-87, Cl. 188-315.000.

Houghton, Dawn I.: *See*—
Weisman, Paul T.; Houghton, Dawn I.; and Gellert, Dale A., 4,673,402, Cl. 604-368.000.

Houghton, James R.: *See*—
Burnett, William; Houghton, James R.; Walker, David A.; and Key, Larry, 4,696,512, Cl. 297-68.000.

Houghton Mifflin Company: *See*—
Kucera, Henry, 4,674,066, Cl. 464-900.000.

Houghton, Paul: *See*—
Brandt, Alan E.; and Houghton, Paul, 4,699,644, Cl. 71-27.000.

Houghton, Robert A.: *See*—
Depew, Donald R.; Houghton, Robert A.; and Sparks, David C., 4,716,554, Cl. 367-20.000.

Houkes, Henk; Postma, Pieter; and Van Veghel, Andreas C., to U.S. Philips Corporation. Electrodeless low-pressure discharge lamp. 4,710,678, 12-1-87, Cl. 315-39.000.

Houkita, Atsushi; and Hokari, Tomio, to Hitachi, Ltd. Variable-capacity turbocharger. 4,689,959, 9-1-87, Cl. 60-602.000.

Houle, Conrad G.: *See*—
Turner, Sam R.; and Houle, Conrad G., 4,663,268, Cl. 430-270.000.

Houle, Edmund C., Jr.: *See*—
King, William W.; and Houle, Edmund C., Jr., 4,696,354, Cl. 175-329.000.

Houle, Mario, to Agrimetal Inc. Conveyor system for use with an ingredient mixer. 4,699,265, 10-13-87, Cl. 198-575.000.

Houle, Mario, to Agrimetal Inc. Apparatus for mixing animal feed materials. 4,702,609, 10-27-87, Cl. 366-184.000.

Houle, Timothy H., to A. O. Smith Corporation. Method of making a laminated structure for use in an electrical apparatus. 4,707,313, 11-17-87, Cl. 264-61.000.

Houlgrave, Robert C.: *See*—
Watkins, Bruce J.; Regan, Albert M.; Crager, Bruce L.; Fox, Gary L.; and Houlgrave, Robert C., 4,648,747, Cl. 405-195.000.

Houlihan, Christopher M.: *See*—
Chang, Stephen S.; Ho, Chi-Tang; and Houlihan, Christopher M., 4,638,095, Cl. 568-326.000.

Houlihan, William J.; Mattner, Paul G.; and Smith, Joseph A., to Sandoz Pharmaceuticals Corp. Preparation of substituted amines. 4,670,600, 6-2-87, Cl. 568-1.000.

Houlihan, William J.; and Lee, Mark L., to Sandoz Pharmaceuticals Corp. Substituted-[hydroxy(tetrahydro)-5-oxo-(2- and 3-furanyl or 2-thienyl)alkoxyphosphinyloxy]-alkanaminium hydroxide, inner salt oxides. 4,673,672, 6-16-87, Cl. 514-95.000.

Houllis, Cynthia A. Multi-adjustable cushion for a shopping cart. 4,655,502, 4-7-87, Cl. 297-229.000.

Hoult, Robert A.; and Ragusa, Robert P., to Perkin-Elmer Corporation, The. Detector preamplifier for use with a MCT detector. 4,682,022, 7-21-87, Cl. 250-214.00A.

Houman, Leif; and Wohlabaugh, Leonard M., to Xermac, Inc. Modular EDM system. 4,638,141, 1-20-87, Cl. 219-69.00R.

Houman, Leif; and Wohlabaugh, Leonard M., to Xermac, Inc. EDM electrode assembly and method of making and using same. 4,654,499, 3-31-87, Cl. 219-69.00G.

Houminer, Yoram; Southwick, Everett W.; and Williams, David L., to Philip Morris Incorporated. Smoking composition containing a novel monoacylpyrazine flavorant. 4,635,652, 1-13-87, Cl. 131-278.000.

Houminer, Yoram: *See—*

Chan, W. Geoffrey; and Houminer, Yoram, 4,701,282, Cl. 260-410.90R.

Houng, Huang-Chiang. Headset. 4,689,822, 8-25-87, Cl. 381-183.000.

Hounsfield, Godfrey N., to EMI Limited. Radiography. 4,639,941, 1-27-87, Cl. 378-11.000.

Hounsfield, Godfrey N.; and Williams, Anthony M., to EMI Limited. Compliant coupling mechanism. 4,702,667, 10-27-87, Cl. 414-735.000.

Hounsfield, Godfrey N.: *See—*

Ashton, Mark; and Hounsfield, Godfrey N., 4,687,979, Cl. 318-638.000.

Houpt, Pieter M.; and Wielandt, Ralph T., to Nederlandse Centrale Organisatie Voor Toegepast-Natuurwetenschappelijk Onderzoek. Sensor for the measurement of the refractive index of a fluid and/or phase boundary between two fluids by means of visible or invisible light. 4,711,126, 12-8-87, Cl. 73-293.000.

Hourahane, Donald H., to South African Inventions Development Corporation. Surgical device. 4,672,957, 6-16-87, Cl. 128-92.0VD.

Hourihan, Joseph C.; and Krevald, Helga, to American Cyanamid Company. Water-in-oil emulsion antiperspirant stick. 4,704,271, 11-3-87, Cl. 424-66.000.

Hourtane, Jean-Luc; and Girard, Christian, to Les Cables de Lyon. High voltage surge protection for electrical power line. 4,689,713, 8-25-87, Cl. 361-118.000.

Hourton, Jean-Jacques, to Telecommunications Radioelectriques et Telephoniques TRT. Telephone switching system. 4,686,330, 8-11-87, Cl. 379-269.000.

Housden, Anthony J. D.: *See—*

Camm, David M.; Kjorvel, Arne; Halpin, Nicholas P.; and Housden, Anthony J. D., 4,700,102, Cl. 313-24.000.

House, David N.; and Sauseda, Blas O., to Tri-Cities Tool & Die Clinic, Inc. Extension cord connector housing. 4,643,505, 2-17-87, Cl. 339-75.00P.

House, David W., and Scott, Ray V., Jr., to UOP Inc. Polyurea coatings for objects of metal glass wood or plastic. 4,663,201, 5-5-87, Cl. 427-388.200.

House, David W.; and Scott, Ray V., Jr., to UOP Inc. Polyurethane coatings and adhesives. 4,714,512, 12-22-87, Cl. 156-306.600.

House, David W.: *See—*

Scott, Ray V., Jr.; Baumann, William M.; and House, David W., 4,709,003, Cl. 528-60.000.

House, F. Allen: *See—*

Cutburth, Ronald W.; and House, F. Allen, 4,667,922, Cl. 248-664.000.

House Food Industrial Co., Ltd.: *See—*

Fujihara, Takeo; Yamatani, Akira; Yamamoto, Masanori; and Kunimoto, Yuji, 4,705,209, Cl. 229-109.000.

Nakanaga, Ryusuke, 4,661,672, Cl. 219-10.55E.

Sakuichi, Sakakibara; Yoshiaki, Tokuda; Tamio, Nagai; Yorinobu, Takino; and Tomiro, Arai, 4,685,810, Cl. 366-150.000.

Sugisawa, Ko; Matsumura, Yasushi; Taga, Kazumitsu; and Hattori, Ryuichi, 4,637,145, Cl. 34-1.000.

Sugisawa, Ko; Matsumura, Yasushi; Taga, Kazumitsu; Sengoku, Koji; and Nagatome, Yoshiaki, 4,645,681, Cl. 426-634.000.

Sugisawa, Ko; Matsumura, Yasushi; Taga, Kazumitsu; and Hattori, Ryuichi, 4,664,924, Cl. 426-242.000.

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Sugisawa, Ko; Sekiguchi, Kazuya; Taguchi, Masao; Nakatani, Masayuki; and Iwata, Hitoshi, 4,690,699, Cl. 55-267.000.

Sugisawa, Ko; Yamamoto, Masanori; and Nakanaga, Ryusuke, 4,703,149, Cl. 219-10.55E.

Yamaguchi, Noriaki; Sugano, Shozo; and Enomoto, Kayo, 4,707,371, Cl. 426-462.000.

House, Gary L., to Eastman Kodak Company. Photographic emulsions and elements containing sensitizing dye in the form of host crystals. 4,692,401, 9-8-87, Cl. 430-570.000.

House, Gary L.: *See—*

Daubendiek, Richard L.; House, Gary L.; and Gersey, Timothy R., 4,672,027, Cl. 430-505.000.

Daubendiek, Richard L.; House, Gary L.; and Gersey, Timothy R., 4,693,964, Cl. 430-505.000.

House, Hugh A., Sr. Multi-event biomedical electrode assembly. 4,660,562, 4-28-87, Cl. 128-640.000.

House, Lawrence E., II; and O'Connor, William H., to Black & Decker, Inc. Apparatus for storing and charging a rechargeable electric tool. 4,677,362, 6-30-87, Cl. 320-2.000.

House, Marshall K., to Cascade Corporation. Lift truck clamp for handling stacked loads of different sizes. 4,682,931, 7-28-87, Cl. 414-623.000.

House, Ronnalee; and Kellams, Roger W., to General Motors Corporation. Overmolded electrical connector. 4,684,202, 8-4-87, Cl. 439-752.000.

House, Roy F.; and Hoover, Lonnie D., to NL Industries, Inc. Method of increasing the rate of hydration of activated hydroxyethyl cellulose compositions. 4,686,051, 8-11-87, Cl. 252-8.551.

Household Manufacturing, Inc.: *See—*

Baranski, Bernard R., 4,636,142, Cl. 416-210.00R.

Mader, Gerald E., 4,653,624, Cl. 192-58.00B.

Houseman, David G., to John Deks Australia Pty. Ltd. Weather seal device for conduit extending through ridged surface. 4,664,39, 5-12-87, Cl. 277-12.000.

Houseman, Walter R., to Custom Technical Enterprises. Projectile firing weapon with a replaceable firing mechanism actuator cassette. 4,679,487, 7-14-87, Cl. 89-140.000.

Houser, James S.; and Hines, Frank, to NCR Corporation. High speed data transmission system. 4,669,044, 5-26-87, Cl. 364-200.000.

Houser, John, Jr., to Singer Company, The. Battery charger circuit. 4,712,055, 12-8-87, Cl. 320-35.000.

Houser, Kevin L.: *See—*

Piatt, Michael J.; and Houser, Kevin L., 4,709,246, Cl. 346-140.00R.

Piatt, Michael J.; and Houser, Kevin L., 4,709,247, Cl. 346-140.00R.

Houser, Lee. Method and apparatus for extracting dirt from ducting. 4,666,530, 5-19-87, Cl. 134-22.100.

Houser, Steven A.: *See—*

Armstrong, Maclay M.; and Houser, Steven A., 4,704,086, Cl. 433-5.000.

Houserman, Raymond L., to Coin Acceptors, Inc. Operation completion detection means. 4,712,049, 12-8-87, Cl. 318-112.000.

Houskamp, Robert W., to Litton Automation Systems, Inc. Electric field guidance system for automated vehicles. 4,656,406, 4-7-87, Cl. 318-587.000.

Housman, Richard J.: *See—*

Kanjo, Wajih; and Housman, Richard J., 4,662,485, Cl. 196.00D.

Houston, David L.: *See—*

Carroll, Charles B.; and Houston, David L., 4,687,966, Cl. 313-440.000.

Houston Industries, Incorporated: *See—*

Finke, Ronald J.; Mullen, Victor J.; Williams, Danny R.; Morris, Robert J.; and Tucker, Charles E., 4,661,662, Cl. 200-48.00R.

Houston, James L. Slide valve. 4,671,313, 6-9-87, Cl. 137-315.000.

Houston, John C., to American Sterilizer Company. High angle li hinge. 4,706,511, 11-17-87, Cl. 74-105.000.

Houston, Mary B.: *See—*

Schumacher, Robert W.; and Houston, Mary B., 4,680,189, Cl. 426-285.000.

Schumacher, Robert W.; and Houston, Mary B., 4,710,390, Cl. 426-285.000.

Houston, Terry L.: *See—*

Knurek, Thomas A.; Houston, Terry L.; and Hipsher, Gary L., 4,687,188, Cl. 267-140.100.

Houtchens, Robert A.; Cheng, Roberta C.; McCoy, Karen M.; Epstein, Carol C.; and Moll, Norman G., to Dow Chemical Company, The. Stabilization of glucose isomerase. 4,675,292, 6-23-87, Cl. 435-94.000.

Houton Manufacturing Co., Inc.: *See—*

Brooks, Edward, 4,696,378, Cl. 188-170.000.

Houtz, J. William: *See—*

Gibbon, Robert M.; and Houtz, J. William, 4,699,540, Cl. 404-49.000.

Houx, James R., Jr.: *See—*

Kinney, Ohler L., Jr.; Houx, James R., Jr.; and Fritz, Gerald D., 4,663,092, Cl. 261-111.000.

Houzouji, Akira: *See—*

Rokksku, Tadashi; Houzouji, Akira; Omori, Shunji; and To Takayuki, 4,702,652, Cl. 409-84.000.

Hovan, Edward J.; and Zimonis, Joseph P., to United Technologies Corporation. Air cooler for providing buffer air to a bearing compartment. 4,645,415, 2-24-87, Cl. 415-115.000.

Hovda, Keith D.: *See—*

Campbell, Kent D.; Dietsche, Laura J.; Crampton, Lee B.; Hovda, Keith D.; Tyson, George K.; and Wilson, Charles A., 4,713,231, Cl. 423-356.000.

Hovel, Harold J.; and Kuech, Thomas F., to International Business Machines Corporation. Annealing process. 4,708,883, 11-24-87, Cl. 427-38.000.

Hovel, William G., III. Dental floss packet and method for its manufacture. 4,712,572, 12-15-87, Cl. 132-89.000.

Hoveler, Egon, to Jagenberg Aktiengesellschaft. Bottle plate in a bottle-processing machine. 4,693,050, 9-15-87, Cl. 53-137.000.

Hovemann, Friedrich: *See—*

Oppenlaender, Knut; Stork, Karl; Hovemann, Friedrich; and Schwartz, Erich, 4,657,560, Cl. 44-51.000.

Oppenlaender, Knut; Stork, Karl; Hovemann, Friedrich; and Schwartz, Erich, 4,675,025, Cl. 44-51.000.

Hovenga, LaVern B.: *See—*

Wohlford, William P.; and Hovenga, LaVern B., 4,645,273, Cl. 305-40.000.

Wohlford, William P.; and Hovenga, LaVern B., 4,716,401, Cl. 340-568.000.

Hoverman, Ronald B.: *See—*

Robidoux, Richard R.; and Hoverman, Ronald B., 4,706,033, Cl. 328-139.000.

Hoverter, Robert T.: *See—*

Campbell, Donn V.; Dubowicz, Palemon W.; and Hoverter, Robert T., 4,700,196, Cl. 343-797.000.

Hovestadt, Herbert: *See—*

Bittner, Friedrich; Hinrichs, Walter; Hovestadt, Herbert; Lange, Ludwig; and Splett, Erich, 4,640,832, Cl. 423-562.000.

Hovey, Isabel: *See—*

Nowak, Frederick H.; and Hovey, Isabel, 4,691,808, Cl. 187-125.000.

Hovey, Leonard L.; Mathews, Marion J., III; and Peoples, P. Robert, to Monsanto Company. Dimerization process improvements. 4,639,5, 1-27-87, Cl. 558-363.000.

Hoving, Klaas: *See—*

van der Vleugel, Dominicus J. M.; Hoving, Klaas; Wortel, Theodorus M.; Rosensweig, Ronald E.; and Rees, Lovat V. C., 4,687,878, Cl. 585-820.000.

Hovinga, Donald G., to Schneider Metal Manufacturing Co. Ice cube dispensing outlet. 4,679,715, 7-14-87, Cl. 222-517.000.

Hovis, Keith W.: *See—*

Hachmuth, Henry K.; and Hovis, Keith W., 4,677,244, Cl. 585-701.000.

Hovland, Claire T.: *See—*

Abrams, Jerome H.; and Hovland, Claire T., 4,671,295, Cl. 128-663.000.

Hovland, Lyle W., to Aluminum Company of America. Wind responsive soffit ventilator. 4,667,581, 5-26-87, Cl. 98-37.000.

Howa Kogyo Kabushiki Kaisha: *See—*

Ikeda, Kouhei; Iwata, Kozo; and Masaki, Hisayoshi, 4,702,146, Cl. 89-193.000.

Howald, Ernst: *See—*

Meyer, Gabriel; and Howald, Ernst, 4,703,781, Cl. 141-5.000.

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Erlandsson, Kjell I.; DiFonzo, Mark A.; and Howald, Peter, 4,651,654, Cl. 110-254.000.

Howaldtswerke-Deutsche Werft, Aktiengesellschaft: *See—*

Lehmann, Eike; and Jannusch, Reiner, 4,640,216, Cl. 114-340.000.

Howard, Anthony J.: *See—*

Alford, Neil M.; Birchall, James D.; Howard, Anthony J.; Kendall, Kevin; and Raistrick, James H., 4,677,082, Cl. 501-88.000.

Howard, Anthony M.: *See—*

Davies, Ian; Cotton, Sydney; and Howard, Anthony M., 4,698,901, Cl. 437-209.000.

Howard, Artis N. Rock breaker tool. 4,666,213, 5-19-87, Cl. 299-37.000.

Howard, Bruce A.: *See—*

Cooper, Frank W., Jr.; Howard, Bruce A.; and Snyder, David A., 4,639,994, Cl. 29-402.010.

Cooper, Frank W., Jr.; and Howard, Bruce A., 4,653,164, Cl. 29-157.400.

Cooper, Frank W., Jr.; Howard, Bruce A., and Snyder, David A., 4,688,327, Cl. 29-726.000.

Howard, Charles P., to Sensors, Inc. Chemiluminescent gas analyzer for measuring the oxides of nitrogen. 4,657,744, 4-14-87, Cl. 422-52.000.

Howard, Charles P.; and Stedman, Donald H., to Sensors, Inc. Liquid separator for gas analyzer. 4,678,488, 7-7-87, Cl. 55-406.000.

Howard, Christian S.: *See—*

Lachenmeier, Timothy T., and Howard, Christian S., 4,700,951, Cl. 273-264.000.

Howard, Colin R.: *See—*

Skelly, Jacinta; Howard, Colin R.; and Zuckerman, Arie J., 4,666,713, Cl. 424-89.000.

Howard, Darryl A., and Shen, Lawrence Y. L., to Lockheed Missiles & Space Company, Inc. Pulsed electromagnetic nondestructive test method for determining volume density of graphite fibers in a graphite-epoxy composite material. 4,639,669, 1-27-87, Cl. 324-239.000.

oward, Don R.: *See—*

Butts, J. James, Jr.; and Howard, Don R., 4,709,580, Cl. 73-178.00R.

oward, Edward J., and Howard, Edward J., Sr. Universal sign bracket. 4,706,400, 11-17-87, Cl. 40-617.000.

oward, Edward J., Sr.: *See—*

Howard, Edward J.; and Howard, Edward J., Sr., 4,706,400, Cl. 40-617.000.

oward Florey Institute of Experimental Physiology and Medicine: *See—*

Tregear, Geoffrey W.; Du, Yu-cang; and Niall, Hugh D., 4,656,249, Cl. 530-324.000.

oward, Fred; and Edson, Sydney, to Sara Lee Corporation. Display and pull-out tray assemblies for integrated modular store fixture system. 4,705,175, 11-10-87, Cl. 211-59.200.

oward, George M.: *See—*

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Brinegar, John R., and Freeman, William R., 4,684,505, Cl. 420-81.000.

Freeman, William R., Jr., 4,709,461, Cl. 29-526.300.

Lassow, Eliot S.; Johnson, Paul R.; Whitaker, Sidney R.; and Guerra, Manuel, Jr., 4,703,806, Cl. 164-518.000.

Lirones, Nick G., 4,697,632, Cl. 164-369.000.

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Howorth, Frederick H., 4,650,171, Cl. 269-322.000.

Howorth, Frederick H., 4,651,727, Cl. 128-201.230.

Howorth, Frederick H., to Howorth Air Engineering Limited. Autopsy table. 4,650,171, 3-17-87, Cl. 269-322.000.

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Howse, Geoffrey P., to Aquatech Marketing Limited. Drive mechanism. 4,644,809, 2-24-87, Cl. 74-25.000.

Howson, David C., to Intelligent Medicine, Inc. Device and method for effecting application of a therapeutic agent. 4,676,776, 6-30-87, Cl. 604-31.000.

Howson, Paul E., to General Electric Company. Bis(dialkyl aromatic ether anhydride) and polymers obtained therefrom. 4,650,850, 3-17-87, Cl. 528-26.000.

Howtek, Inc.: *See—*

Helinski, Richard R., 4,666,757, Cl. 428-203.000.

Helinski, Richard R.; Lutz, Carl D.; Peer, Thomas R.; and Eno, Philip A., 4,714,936, Cl. 346-140.00R.

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Hide, Ichiro; and Umetsu, Junichi, 4,663,123, Cl. 422-131.000.

Umetsu, Junichi, 4,675,137, Cl. 264-81.000.

Hoxer, Klaus: *See—*

Schickaneder, Helmut; Hoxer, Klaus; and Ahrens, Kurt H., 4,634,700, Cl. 514-227.000.

Hoy, Kenneth L.; and Taylor, Glenn A., to Union Carbide Corporation. Novel polymer/polyols and uses thereof. 4,659,772, 4-21-87, Cl. 524-755.000.

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Hoya Corporation: *See—*

Amano, Satoru, 4,644,555, Cl. 372-72.000.

Amano, Satoru; Horiuchi, Shigenori; and Shinohara, Takeru, 4,696,551, Cl. 350-358.000.

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Ishibai, Isao, 4,650,297, Cl. 350-556.000.

Kasuga, Toshihiro; and Nakagawa, Kenji, 4,643,982, Cl. 501-8.000.

Kasuga, Toshihiro, 4,652,534, Cl. 501-5.000.

Kawai, Hisao, 4,634,639, Cl. 428-690.000.

Matsudaira, Takeo, 4,670,355, Cl. 428-690.000.

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Nakajima, Toshitaka; and Sagara, Hiroji, 4,652,536, Cl. 501-41.000.

Ohmi, Shigeaki; Shingaki, Seiichi; Sakai, Hiroyuki; and Asahara, Yoshiyuki, 4,640,699, Cl. 65-3.150.

Shimizu, Yasumoto; and Matsudaira, Takeo, 4,683,044, Cl. 204-192.260.

Hoya, Kazuo: *See—*

Shimizu, Isao; and Hoya, Kazuo, 4,672,411, Cl. 357-26.000.

Hoyer, August, to Xerox Corporation. Decorrugating paper transport. 4,662,625, 5-5-87, Cl. 271-272.000.

Hoyer, Norman S.: *See—*

Sinharoy, Semahat D.; McKee, Jere L.; and Hoyer, Norman S., 4,699,763, Cl. 419-11.000.

Hoyer, Peter; and Ullrich, Gerd, to Pfeifer Seil-und Hebetechnik GmbH & Co., Firma. Hoist clamp. 4,647,098, 3-3-87, Cl. 294-101.000.

Hoyer, Peter, to Pfeifer Seil-und Hebetechnik GmbH & Co., Firma. Anchor tie for carrying prefabricated concrete members. 4,655,015, 4-7-87, Cl. 52-125.400.

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Hoyle, Charles E.: *See—*

Lenox, Ronald S.; Schwartz, Anne L.; and Hoyle, Charles E., 4,640,885, Cl. 430-197.000.

Hoyle, Edgar. Clutch control cable with auto-adjuster. 4,690,262, 9-1-87, Cl. 192-111.00A.

Hoyle, Steven: *See—*

Gill, Malcolm; and Hoyle, Steven, 4,671,769, Cl. 433-213.000.

Hoyle, William; and Graves, Jammie, to General Electric Company. Machine tool collet containing means for passing a cutting fluid therethrough. 4,705,439, 11-10-87, Cl. 409-136.000.

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Hoyler, Gerhard: *See—*

Bernewitz, Lore; Falckenberg, Richard; Hoyler, Gerhard; and Grabmaier, Josef, 4,657,627, Cl. 156-607.000.

Hoyme, Clifford L. Damper mounting assembly. 4,711,626, 12-8-87, Cl. 431-20.000.

Hoyne, Earl K.; Nordeen, Charles K.; and Young, James D., to Minnesota Mining and Manufacturing Company. Electrographic stylus recording apparatus. 4,646,112, 2-24-87, Cl. 346-153.100.

Hoyne, Earl K.: *See—*

Lunde, George G.; Hoyne, Earl K.; and Nordeen, Charles K., 4,649,402, Cl. 346-153.100.

Hoyt, Carmi L.; and Piotraczk, Stanley J. Stud mounted door lock. 4,669,282, 6-2-87, Cl. 70-129.000.

Hoyt, Charles D.: *See—*

Nemnich, Charles L.; and Hoyt, Charles D., 4,706,498, Cl. 73-516.00R.

Hoyt, Donald L.: *See—*

Huang, Wann-Sheng; Brown, Alfred; and Hoyt, Donald L., 4,653,583, Cl. 166-252.000.

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Williams, David E.; and Hoyt, Edwin D., 4,695,703, Cl. 219-212.000.

Hoyt, Halfen L.: *See—*

Chalaire, Donald K.; Hoyt, Halfen L.; and Hurchalla, James, 4,669,893, Cl. 384-99.000.

Hoyt, John G. Double wishbone rig. 4,633,797, 1-6-87, Cl. 114-91.000.

Hoyt, John G. Circular linked rotating foil assembly for vessels. 4,677,928, 7-7-87, Cl. 114-39.000.

Hoyt, John G. Deck mounted lateral mast rake adjuster. 4,706,590, 11-17-87, Cl. 114-39.100.

Hoyt, John M.; and Blazey, Steven D., to National Distillers and Chemical Corporation. Partially hydrolyzed ethylene-vinyl acetate (EVA) elastomers vulcanizable with sulfur. 4,686,264, 8-11-87, Cl. 525-330.400.

Hoyt, John M.: *See—*

Linial, Andrew V.; Hoyt, John M.; Luban, Dennis D.; and Cullers, James M., 4,665,928, Cl. 128-782.000.

Pritchett, Ervin G.; and Hoyt, John M., 4,689,370, Cl. 525-330.300.

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Kuzmak, Lubomyr I.; and Hoyt, Robert E., 4,696,288, Cl. 128-1.00R.

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Hoyt, Steven D.: *See—*

Wirth, Gary J.; Behlmer, Robert F.; and Hoyt, Steven D., 4,655,129, Cl. 101-35.000.

Hozelock-ASL Limited: *See—*

Hamilton, Malcolm F., 4,679,705, Cl. 222-90.000.

Osmond, Dennis R. C., 4,708,290, Cl. 239-227.000.

Renfrew, Bruce, 4,673,199, Cl. 285-316.000.

Hozer, Norman R. Method and bath for electro-chemically resharpening of cutting tools. 4,710,279, 12-1-87, Cl. 204-129.550.

Hozn Auto & Soft Co., Ltd.: *See—*

Chen, Sun C., 4,714,805, Cl. 200-16.00A.

Hozumi, Kazuhiro: *See—*

Tsuchiya, Tatsuo; and Hozumi, Kazuhiro, 4,693,454, Cl. 267-226.000.

HR Textron Inc.: *See—*

Bergloff, Raymond A., 4,648,490, Cl. 188-297.000.

Hartmann, Wilhelm U.; and Martin, James A., 4,637,877, Cl. 210-347.000.

Torres, Jorge, 4,657,040, Cl. 137-110.000.

Hradcovsky, Rudolf. Method of coating articles of aluminum and an electrolytic bath therefor. 4,659,440, 4-21-87, Cl. 204-58.000.

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Hrdlicka, Gregory A.: *See—*

Roth, Roger R.; and Hrdlicka, Gregory A., 4,675,648, Cl. 340-310.00A.

Hrebenar, Kevin R.: *See—*

Hayes, Michael E.; Hrebenar, Kevin R.; Deal, James F., III; and Bolden, Paul L., Jr., 4,666,457, Cl. 44-51.000.

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Hrehovcik, Michael: *See—*

Morgan, Tamara M.; Roig, Richard R.; and Hrehovcik, Michael, 4,700,850, Cl. 211-131.000.

Hren, Alisa M.: *See—*

Evans, Joseph T., Jr.; Munechika, Stacy M.; Norris, Michael C.; Hren, Alisa M.; Heck, Kevin M.; and Zulka, Suzanne M., 4,654,586, Cl. 324-83.00D.

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Li, Allen S.; and Eccles, Richard M., 4,702,891, Cl. 422-140.000.

Hristov, Ivan B.: *See—*

Sabev, Sabi G.; Lasarov, Stefan D.; Todorov, Dimiter B.; Koparanova, Darina K.; and Hristov, Ivan B., 4,667,698, Cl. 137-596.130.

Hrncir, Robert E.; and Ross, Herbert G., Jr., to Rochester Gauges, Inc. Density compensating float. 4,635,480, 1-13-87, Cl. 73-322.500.

Hrovat, Stojan: *See—*

Knapp, Wolfgang; and Hrovat, Stojan, 4,662,074, Cl. 33-169.00C.

Hruby, Gyula: *See—*

Szemler, Laszlo; Pechany, Eva C.; Langer, Maria; Hruby, Gyula; and Sike, Valeria, 4,659,661, Cl. 435-86.000.

Hruby, Victor J., to Gibson-Stephens Neuropharmaceuticals, Inc. Conformationally constrained alpha-melanotropin analogs with specific central nervous system activity. 4,649,191, 3-10-87, Cl. 530-329.000.

Hruby, Victor J.; and Pelton, John T., to Gibson-Stephens Neuropharmaceuticals, Inc. Cyclic polypeptides having mu-receptor specificity. 4,684,620, 8-4-87, Cl. 514-11.000.

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Thurlow, Norman C.; and Hruda, Robert M., 4,683,749, Cl. 73-40.700.

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Janouch, Vaclav; Hrudkova , Hana; and Cefelin, Pavel, 4,707,516, Cl. 525-60.000.

Hrushesky, William J. M., to University of Minnesota, Regents of the. Needle support system. 4,675,006, 6-23-87, Cl. 604-180.000.

Hrushesky, William J. M., to University of Minnesota, Regents of the. Instrument and method for accessing vessels and tissues within animals. 4,709,660, 12-1-87, Cl. 119-103.000.

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Hruskoci, Daniel E.: *See—*

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Hrustich, John; and Sitler, Wayne R., to International Business Machines Corporation. Dual stream processor apparatus. 4,639,856, 1-27-87, Cl. 364-200.000.

Hrutfiord, Bjorn F.: *See—*

Fung, Bill S. K.; and Hrutfiord, Bjorn F., 4,691,061, Cl. 568-432.000.

Hryckowian, John N.: *See—*

Banker, Dennis C.; Dorler, Jack A.; and Hryckowian, John N., 4,709,166, Cl. 307-441.000.

HSA, Inc.: *See—*

Horvath, Louis, 4,657,441, Cl. 405-254.000.

Hsech-Pen, Leu. Windmill. 4,649,284, 3-10-87, Cl. 290-55.000.

Hsei, Paul K.: *See—*

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Hseih, Ning. Partially relaxable composite dielectric structure. 4,688,078, 8-18-87, Cl. 357-23.500.

Hsi, Rock C.: *See—*

Goldfinger, Dennis; and Hsi, Rock C., 4,650,662, Cl. 424-11.000.

Hsia, Min A., to Norton Company. Tower packing element. 4,670,196, 6-2-87, Cl. 261-112.000.

Hsia, Richard Y.; and Liu, Thomas C., to American Telephone and Telegraph Company; and AT&T Information Systems Inc. Communication system having voice and data capability. 4,685,123, 8-4-87, Cl. 379-93.000.

Hsiao, Charles H., to Key Pharmaceuticals, Inc. Sustained release quinidine dosage form. 4,634,587, 1-6-87, Cl. 424-19.000.

Hsiao, Charles H., to Key Pharmaceuticals, Inc. Minipellets. 4,708,867, 11-24-87, Cl. 424-80.000.

Hsiao, James C.: *See—*
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Hsiao, Meng-Chang. Rotary structure for the head portion of an illumination light. 4,654,764, 3-31-87, Cl. 362-199.000.

Hsieh, C. Richard; and Clifford, Roger K., to Chevron Research Company. Solvent extraction process for recovering bitumen from tar sand. 4,676,889, 6-30-87, Cl. 208-390.000.

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Hsieh, Eric T.: *See—*
Smith, Paul D.; and Hsieh, Eric T., 4,665,263, Cl. 585-520.000.

Hsieh, Harry W. S.: *See—*
Rizk, Sidky D.; and Hsieh, Harry W. S., 4,687,533, Cl. 156-307.300.

Hsieh, Henry L.; and Yeh, Gene H. C., to Phillips Petroleum Company. Olefin polymerization. 4,699,962, 10-13-87, Cl. 526-142.000.

Hsieh, Jiang: *See—*
Hawman, Eric G.; and Hsieh, Jiang, 4,670,657, Cl. 250-505.100.

Hsieh, Jin-Han: *See—*
Maxwell, Peter C.; Hsieh, Jin-Han; and Fieschko, John C., 4,657,863, Cl. 435-142.000.

Hsieh, John T. T.: *See—*
Pennington, B. Timothy; Roling, Paul V.; and Hsieh, John T. T., 4,665,140, Cl. 526-86.000.

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Kabasawa, Satoshi; Hsieh, Ming-Shiun; Chang, Shih-Ming; and Lin, Chun-Hong, 4,715,004, Cl. 364-513.500.

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Hsien-Yang, Chang. Toy device which can be opened and positioned at any desired angle. 4,681,554, 7-21-87, Cl. 446-231.000.

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Hsing, To R., to GTE Laboratories Incorporated. Framed digital voice summing for teleconferencing. 4,658,398, 4-14-87, Cl. 370-62.000.

Hsiung, Andrew K.; Comstock, Daniel L.; and Hagen, Robert D., to Neptune Microfloc, Incorporated. Cross-flow microfiltration lime softener. 4,670,150, 6-2-87, Cl. 210-636.000.

Hsiung, Chia Y.; and Ross, Daniel P., to General Electric Company. Adaptive carrier tracking circuit. 4,691,176, 9-1-87, Cl. 331-2.000.

Hsiung, Nancy: *See—*
Fitts, Renee A.; Hsiung, Nancy; and Hamer, Dean H., 4,696,898, Cl. 435-68.000.

Hsiung, Shu-Jen. Joint arrangement for knockdown furniture. 4,691,965, 9-8-87, Cl. 297-440.000.

Hsu, Chao-Yang; and Ellis, Paul E., Jr., to Sun Refining and Marketing Company. Preparation of 1,1-dimethoxycyclohexane. 4,652,344, 3-24-87, Cl. 203-96.000.

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Dickerson, Wilton H., Jr.; Hsu, Che-Hsiung; and Samuels, Michael R., 4,668,454, Cl. 264-129.000.

Hsu, Chen-Hsiung. Pedal boat. 4,648,846, 3-10-87, Cl. 440-31.000.

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Calabro, Salvatore R.; Calabro, John A.; and Hsu, Chun, 4,707,796, Cl. 364-552.000.

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Hsu, Jang-Yu, to GA Technologies Inc. Gyro free electron laser. 4,679,197, 7-7-87, Cl. 372-2.000.

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Parker, John A.; Heimbuch, Alvin H.; Hsu, Ming-Ta S.; and Chen, Timothy S., 4,647,615, Cl. 524-548.000.
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  Chen, Nai Y.; and Huang, Tracy J., 4,672,049, Cl. 502-66.000.
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Williams, Howard M., Jr., 4,660,916, Cl. 339-94.00L.

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Schnell, Kenneth R., 4,711,472, Cl. 285-162.000.

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Huber, Henry J.: *See—*
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Eberle, Heini; and Huber, Josef, 4,644,666, Cl. 34-34.000.
Huber, Joseph C., Jr.; and Nagabhushan, Bellur L., to Goodyear Aerospace Corporation. Spin dispensing method and apparatus. 4,676,167, 6-30-87, Cl. 102-393.000.
Huber, Joseph C., Jr.: *See—*
Graham, John J., Jr.; Huber, Joseph C., Jr.; and Neumann, John E., 4,709,235, Cl. 342-10.000.
Huber, Lothar, to Luk Lamellen und Kupplungsbau GmbH. Fluid-operated clutch disengaging apparatus. 4,637,505, 1-20-87, Cl. 192-88.00A.
Huber, Lothar: *See—*
Maucher, Paul; and Huber, Lothar, 4,660,700, Cl. 192-89.00B.
Huber, Ludwig K.; and Reilly, James L., to Pennwalt Corporation. Sulfone-containing hindered amines. 4,649,167, 3-10-87, Cl. 524-99.000.
Huber, Ludwig K., to Pennwalt Corporation. Polyhydroxy polymer delivery systems. 4,657,582, 4-14-87, Cl. 71-121.000.
Huber, Neil M., to Bio Techniques Laboratories, Inc. Use of metam sodium for preserving hay. 4,708,879, 11-24-87, Cl. 426-335.000.
Huber, Ralf: *See—*
Goedecke, Wolf-Dieter; Schwenzer, Reinhard; and Huber, Ralf, 4,656,881, Cl. 74-110.000.
Huber, Reinhold; and Koster, Waldemar. Joint covering for expansion joints in carriageways, especially bridges. 4,706,318, 11-17-87, Cl. 14-16.500.
Huber, Robert: *See—*
Flatz, Josef; Weddigen, Gert; Bohme, Hans-Joachim; Grieser, Fritz; Huber, Robert; and Nienburg, Hans, 4,691,082, Cl. 174-106.0SC.
Nebelung, Hermann H.; Huber, Robert; and Futterknecht, Fritz, 4,637,827, Cl. 65-235.000.
Nebelung, Hermann H.; Gruninger, William; and Huber, Robert, 4,654,069, Cl. 65-163.000.
Weddigen, Gerd; Huber, Robert; Schmidt, Birgit; and Schneider, Hartmut, 4,639,496, Cl. 525-506.000.
Weddigen, Gert; Flatz, Josef; Schmidt, Conrad; Huber, Robert; and Pohsner, Gerhard, 4,670,511, Cl. 525-138.000.
Huber, Thomas, to Electro-Pneumatic-International GmbH. Ball unit. 4,689,847, 9-1-87, Cl. 16-26.000.
Huber, Thomas, to Electro-Pneumatic-International GmbH. Roller drive unit. 4,697,694, 10-6-87, Cl. 198-782.000.
Huber, Wilhelm, to Siemens Aktiengesellschaft. Gas-discharge display apparatus with a spacer frame and method for fabricating this frame. 4,659,963, 4-21-87, Cl. 313-493.000.
Huber, Wilhelm: *See—*
Hillenbrand, Bernhard; Huber, Wilhelm; Littwin, Burkhard; and Schuster, Karl, 4,634,935, Cl. 315-169.400.
Huber, Willi; and Mussner, Klaus, to J. Wagner AG. Electrostatic paint spraygun. 4,651,932, 3-24-87, Cl. 239-707.000.
Huber, William J., to Combined Technologies, Inc. Fault sensing system for a transformer network. 4,675,771, 6-23-87, Cl. 361-41.000.
Huber, William J., to Combined Technologies, Inc. Current-limiting fuses. 4,689,596, 8-25-87, Cl. 337-159.000.
Huber, Wolfgang: *See—*
Schiele, August; and Huber, Wolfgang, 4,640,181, Cl. 89-46.000.
Hubert, Carl H.; Miller, Paul A.; Furia, Thomas J.; Muhlfelder, Ludwig; Schmidt, George E., Jr.; and Swale, James F., to RCA Corporation. Spacecraft stabilization system and method. 4,657,210, 4-14-87, Cl. 244-158.00R.
Hubert, James F.: *See—*
Hupfer, Bruce A.; and Hubert, James F., 4,686,144, Cl. 428-421.000.
Hubert, Jerome: *See—*
Nicco, Adrien; Hubert, Jerome; Druz, Jacques; and Lambla, Mo and, 4,657,781, Cl. 427-117.000.
Hubert, Nicola P., to Halcyon Waterbed Inc. Waterbed. 4,686,72 8-18-87, Cl. 5-451.000.
Hubertson, Folke H., to Aktiebolaget Somas Ventiler. Sealing device for throttle valves. 4,634,097, 1-6-87, Cl. 251-173.000.
Hubertus, Guido: *See—*
Thorn, Gernot; Thomas, Friedrich-Werner; Sturmer, Johann Dahlinger, Dietrich; Hubertus, Guido; and Sperzel, Wolfgang 4,700,281, Cl. 363-37.000.
Hubin, Claude: *See—*
Danloup, Andre; Galzandat, Pierre; Hubin, Claude; and Sterns Charles, 4,707,089, Cl. 351-138.000.
Hubler, Gerhard: *See—*
Brinkmeyer, Hermann; Hubler, Gerhard; Perrey, Hermann; Nev Burkhard; and Kober, Heinrich, 4,687,709, Cl. 425-425.900.
Hublot, Bernard M.: *See—*
Gayral, Philippe G.; and Hublot, Bernard M., 4,643,097, Cl. 424-93.000.
Hubner, Erwin: *See—*
Barth, Heinz; Hubner, Erwin; Heynisch, Hinrich; and Schneider Adolf, 4,653,060, Cl. 372-61.000.
Hubner Gummi-und Kunststoff GmbH: *See—*
Schmidt, Helmbrecht; Koch, Robert; and Seyer, Richard 4,690,421, Cl. 280-403.000.
Hubner, Hans J. Method of measuring the magnitude of an environmental parameter, especially the concentration of an explosion-generating gas in a subterranean atmosphere. 4,642,296, 2-10-87, Cl. 436-138.000.
Hubner, Hans-Jorg. Method of making a catalytic-burning sensor 4,703,555, 11-3-87, Cl. 29-611.000.
Hubner, Henry H., Jr.: *See—*
Viola, Frank J.; and Hubner, Henry H., Jr., 4,678,217, Cl. 294-16.000.
Hubner, Klaus: *See—*
Fink, Herbert; Hubner, Klaus; and Kniese, Heiner, 4,689,264, Cl. 428-290.000.
Hubner, Manfred. Universal time clock. 4,671,672, 6-9-87, Cl. 368-23.000.
Hubscher, Josef: *See—*
Barner, Richard; and Hubscher, Josef, 4,675,421, Cl. 549-416.000.
Barner, Richard; and Hubscher, Josef, 4,709,055, Cl. 549-215.000.
Hubschwerlen, Christian N.; and Schmid, Gerard, to Hoffmann-LaRoche Inc. Imino compounds useful for making β-lactams. 4,699,986, 10-13-87, Cl. 549-451.000.
Hubschwerlen, Christian N.: *See—*
Furlenmeier, Andre; Hofheinz, Werner; Hubschwerlen, Christian N.; and Isenring, Hans P., 4,652,651, Cl. 548-194.000.
Hubweber, Gerhard; and Mayringer, Maximilian, to Voest-Alpine Aktiengesellschaft. Electric furnace arrangement. 4,651,326, 3-17-87, Cl. 373-22.000.
Huc, Alain; Le Pivert, Patrick; and Gimeno, Rene, to Biotica S.A.; and Le Pivert, Patrick. Implantable, biocompatible reservoirs permitting conservation, cellular culturing, or controlled liberation of an active principle. 4,670,014, 6-2-87, Cl. 604-891.000.
Huc, Alain; Gimeno, Rene; and Herbage, Daniel, to Biotica SA. Forms of microencapsulation of medicinal substances by homogeneous layers of native collagen. 4,711,783, 12-8-87, Cl. 424-460.000.
Huchette, Michel: *See—*
Bussiere, Guy; Zimmermann, Marius; and Huchette, Michel, 4,680,180, Cl. 426-16.000.
Huchinson, Sam E. Spring action boat motor support. 4,650,427, 3-17-87, Cl. 440-55.000.
Huchital, Gerald S.: *See—*
Clark, Brian; and Huchital, Gerald S., 4,659,992, Cl. 324-318.000.
Huck, Charles M.: *See—*
Larrabee, Edward W.; and Huck, Charles M., 4,645,111, Cl. 227-19.000.
Huck, Charles T.: *See—*
Everhart, Robert W.; and Huck, Charles T., 4,695,836, Cl. 340-750.000.
Huck Manufacturing Company: *See—*
Johnsen, John L.; Wood, William E.; Devletian, Jack H.; and Spring, Donald G., 4,708,282, Cl. 228-263.160.
Kendall, James W., 4,635,310, Cl. 10-27.00R.
Kendall, James W., 4,702,655, Cl. 411-43.000.
Lofton, Hugh P., 4,712,333, Cl. 51-164.500.
Huck, Pamela R.: *See—*
Ferrazza, Gerald P.; and Huck, Pamela R., 4,655,394, Cl. 239-412.000.
Huck, Peter M.; Andrews, Robert C.; and Anderson, William B. Removal of radium from aqueous liquids. 4,636,367, 1-13-87, Cl. 423-12.000.
Hucker, David J., to Sundstrand Corporation. Electromagnetic energy storage and supply system. 4,642,535, 2-10-87, Cl. 318-161.000.
Hucker, David J., to Sundstrand Corporation. Frequency and voltage control for inverter powered AC motor. 4,689,543, 8-25-87, Cl. 318-798.000.
Hucking, Ernst E.; and Klemmt, Karl-Heinz, to U.S. Philips Corporation. Electronic data input keyboard comprising keys provided with conductive contacts. 4,709,228, 11-24-87, Cl. 340-365.00S.
Huckle, Ralph E., to De La Rue Systems Limited. Sheet feeding apparatus. 4,666,538, 5-19-87, Cl. 156-73.100.
Hucks, Robert T., Jr.: *See—*
Jada, Sivananda S.; and Hucks, Robert T., Jr., 4,671,990, Cl. 428-266.000.

cks, Uwe: *See*—
Serini, Volker; Schulte, Bernhard; Waldenrath, Werner; Freitag, Dieter; Hucks, Uwe; Wank, Joachim; and Weber, Hans-Leo, 4,654,411, Cl. 528-176.000.

cul, Daniel E.: *See*—
Matheson, Ronald R.; Hucul, Daniel E.; Burkhardt, James; and Schepke, Joseph W., 4,669,192, Cl. 33-169.00C.

cul, Dennis A., to Dow Chemical Company, The. High surface area upported noble metal catalysts and process for their preparation. ,713,363, 12-15-87, Cl. 502-262.000.

dacsek, Istvan; Orcsik, Geza; Hazfalvy, Zoltan; Kotsis, Laszlo ; Nemeth, Endre; Noe, Laszlo ; and Ovari, Ferenc, to Hiradastechnikai Gepgyar. Method of and equipment for qualifying shock absorbers of a motor vehicle. 4,703,645, 11-3-87, Cl. 73-11.000.

dd, Anthony W.: *See*—
Clark, Peter J.; Hudd, Anthony W.; Bloor, Stephen T.; and Roller, Erling, 4,640,335, Cl. 164-440.000.

dd Enterprises: *See*—
Fettes, Ian; and Jervis, Gary F., 4,654,971, Cl. 30-383.000.
Huddleston, Earl M., 4,649,644, Cl. 30-122.000.

ddle, Harley E., Sr.: *See*—
Huddle, Richard F.; Huddle, Harley E., Sr.; and Baldwin, Vernon, 4,699,162, Cl. 134-141.000.

ddle, Richard F.; Huddle, Harley E., Sr.; and Baldwin, Vernon, to A-F Industries, Inc. Utensil washer with hydraulically driven basket. 4,699,162, 10-13-87, Cl. 134-141.000.

ddleston, Earl M., to Hudd Enterprises. Circular saw conversion adapter. 4,649,644, 3-17-87, Cl. 30-122.000.

ddleston, Elwyn; and Lacana, Richard J., to Kendall Company, The. Novel system for preparing rubber compositions employing a cavity transfer mixer. 4,687,794, 8-18-87, Cl. 523-351.000.

ddleston, Elwyn G., to Kendall Company, The. Method of making an adhesive tape. 4,692,352, -8-87, Cl. 427-208.400.

ddleston, George R., Jr.; and Edwards, Walter A., to B. F. Goodrich Company, The. Low energy dewatering of dispersed particle latexes by electrofiltration. 4,671,860, 6-9-87, Cl. 204-182.300.

ddleston, George R., Jr.: *See*—
Edwards, Walter A.; and Huddleston, George R., Jr., 4,693,800, Cl. 204-180.100.

uddy Diamond Crown Setting Company (Proprietary) Limited: *See*—
Collins, William D., 4,678,237, Cl. 299-79.000.

udec, Anthony J.; and Hudec, Wayne C. Door stop/clamp device. 4,653,140, 3-31-87, Cl. 16-82.000.

udec, Gordon D., to Adolph Coors Company. Printing machine with mandrel wheel skip-print verification and response. 4,693,178, 9-15-87, Cl. 101-40.000.

udec, Wayne C.: *See*—
Hudec, Anthony J.; and Hudec, Wayne C., 4,653,140, Cl. 16-82.000.

udecek, Slavko; Hudeckova, Iva; Otoupalova, Jaroslava; and Cefelin, Pavel, to Ceskoslovenska akademie ved. Terpolymers having the character of hydrogels. 4,656,236, 4-7-87, Cl. 526-264.000.

udeckova, Iva: *See*—
Hudecek, Slavko; Hudeckova, Iva; Otoupalova, Jaroslava; and Cefelin, Pavel, 4,656,236, Cl. 526-264.000.

Hudgens, Mark: *See*—
Johnson, James R.; and Hudgens, Mark, 4,664,649, Cl. 493-197.000.

Hudgens, Stephen J.: *See*—
Johncock, Annette; and Hudgens, Stephen J., 4,713,309, Cl. 430-65.000.
Johncock, Annette G.; and Hudgens, Stephen J., 4,715,927, Cl. 156-606.000.
Ovshinsky, Stanford R.; Allred, David D.; Walter, Lee; and Hudgens, Stephen J., 4,664,937, Cl. 427-39.000.
Ovshinsky, Stanford R.; and Hudgens, Stephen J., 4,668,968, Cl. 357-2.000.
Ovshinsky, Stanford R.; and Hudgens, Stephen J., 4,670,763, Cl. 357-4.000.
Ovshinsky, Stanford R.; and Hudgens, Stephen J., 4,673,957, Cl. 357-2.000.
Ovshinsky, Stanford R.; Allred, David D.; Walter, Lee; and Hudgens, Stephen J., 4,701,343, Cl. 427-39.000.
Ovshinsky, Stanford R.; Hudgens, Stephen J.; Allred, David D.; and Demaggio, Gregory, 4,715,890, Cl. 75-0.5AA.
Ovshinsky, Stanford R.; Hudgens, Stephen J.; Allred, David D.; and DeMaggio, Gregory, 4,715,891, Cl. 75-0.5BA.

Hudgens, William O.: *See*—
Roberts, Ernest E.; Hansel, Paul H.; and Hudgens, William O., 4,640,734, Cl. 156-562.000.

Hudgins, Jeffrey K.: *See*—
Young, John W.; Luke, Roger D.; Rhodes, Henry J.; and Hudgins, Jeffrey K., 4,649,241, Cl. 200-82.00R.

Hudkins, Robert L.: *See*—
Rzeszotarski, Waclaw J.; Hudkins, Robert L.; and Guzewska, Maria E., 4,657,899, Cl. 514-120.000.

Hudler, Dennis W.: *See*—
Oswald, Norman D.; Mankey, Harry S.; Dean, Robert R.; and Hudler, Dennis W., 4,685,527, Cl. 180-14.300.

Hudon, James D.: *See*—
Scarano, Robert V.; and Hudon, James D., 4,701,242, Cl. 162-275.000.

Hudson, Alan T.; Gagnon, David P.; Johns, David W., II; and Langenhem, William J., Jr., to Sippican Ocean Systems, Inc. Marine measurement device. 4,673,363, 6-16-87, Cl. 441-1.000.

Hudson, Andrew; and Stansfield, Norman J., to Autotype International Limited. Masking films. 4,636,438, 1-13-87, Cl. 428-412.000.

Hudson, Bertram J.: *See*—
Garcia, Ferrando S.; Ginnow-Merkert, Hartmut; Anderson, Paul J.; Hudson, Bertram J.; and Linde, David E., 4,637,403, Cl. 128-770.000.

Hudson, Carl W.; and Hamner, Glen P., to Exxon Research and Engineering Company. Process for improving octane by the conversion of fused multi-ring aromatics and hydroaromatics to lower molecular weight compounds. 4,664,777, 5-12-87, Cl. 208-112.000.

Hudson, Charles L.; Hudson, David R.; and Burkhalter, Kenneth E. Log splitter. 4,667,712, 5-26-87, Cl. 144-193.00A.

Hudson, David R. Fluid control of metering assemblies. 4,665,941, 5-19-87, Cl. 137-364.000.

Hudson, David R.: *See*—
Hudson, Charles L.; Hudson, David R.; and Burkhalter, Kenneth E., 4,667,712, Cl. 144-193.00A.

Hudson, Donald R.: *See*—
Olsen, Peter C., Jr.; Conforto, Peter M.; Wolf, David L.; and Hudson, Donald R., 4,693,055, Cl. 53-443.000.

Hudson, Geoffrey M., to Storage Research Pty. Ltd. Reading information stored in multiple frame format. 4,695,991, 9-22-87, Cl. 369-44.000.

Hudson, J. Albert: *See*—
Lewis, Robert L., Jr.; and Hudson, J. Albert, 4,685,586, Cl. 220-305.000.

Hudson, J. Russell: *See*—
Bunting, Franklin O.; and Hudson, J. Russell, 4,637,647, Cl. 296-24.00R.

Hudson, James H., to Leak Detective, Inc. Entry tap valve for pressurized pipe leak detector. 4,649,948, 3-17-87, Cl. 137-15.000.

Hudson, John C.: *See*—
Scott, Donald A.; and Hudson, John C., 4,646,512, Cl. 56-13.900.

Hudson Lock, Inc.: *See*—
Boucher, James E., 4,641,506, Cl. 70-129.000.
Dana, Merrill A., 4,647,734, Cl. 200-43.060.

Hudson, Neal W. Wire stripping tool. 4,656,893, 4-14-87, Cl. 81-9.510.

Hudson Oxygen Therapy Sales Company: *See*—
Havstad, Harold R., 4,633,856, Cl. 128-40.000.
Rowland, Robert O., 4,648,888, Cl. 55-21.000.

Hudson, Paul S.; and Shuyama, Tod K., to Phillips Petroleum Company. Permeability contrast correction employing propionate-sequestered chromium(III) prepared by nitrite/dichromate redox. 4,636,572, 1-13-87, Cl. 556-2.000.

Hudson Pharmaceutical Corporation: *See*—
Korab, Theodore J., 4,704,269, Cl. 424-44.000.

Hudson, Philip, to Lucas Industries Public Limited Company. Braking arrangement for a rotary drive system. 4,633,984, 1-6-87, Cl. 192-9.000.

Hudson Products Corporation: *See*—
Kluppel, George E., 4,657,070, Cl. 165-124.000.
Monroe, Robert C., 4,634,341, Cl. 415-129.000.

Hudson, Robert M.; and Fernandez, Alberto, to RMH Systems, Inc. Off line cash card system and method. 4,650,978, 3-17-87, Cl. 235-380.000.

Hudspeth, Thomas; and Ross, Barry S., to Hughes Aircraft Company. Squarax switch. 4,652,841, 3-24-87, Cl. 333-107.000.

Hudspeth, William, to Polaroid Corporation. Optical accessory for photographic apparatus. 4,639,109, 1-27-87, Cl. 354-295.000.

Hudspeth, William: *See*—
Gordon, Michael E.; Cohen, Lenard; Hudspeth, William; and Mills, Paul, 4,662,695, Cl. 339-14.00R.

Hudziak, Robert M.: *See*—
Sharp, Phillip A.; Capecchi, Mario R.; RajBhandary, Uttam L.; Laski, Frank A.; and Hudziak, Robert M., 4,687,737, Cl. 435-68.000.

Hue, Jean, to Salomon S.A. Safety binding for a ski boot. 4,676,522, 6-30-87, Cl. 280-615.000.

Hueber, William J.: *See*—
Smock, Steven W.; and Hueber, William J., 4,650,945, Cl. 200-283.000.

Huebler, James E.: *See*—
Rush, William F.; Huebler, James E.; and Lysenko, Peter, 4,641,377, Cl. 381-111.000.
Rush, William F.; Huebler, James E.; and Ziolkowski, Christopher J., 4,646,787, Cl. 138-98.000.

Huebner, David J.; and Landis, Julie K., to Dow Corning Corporation. Method of producing reinforced aqueous emulsion of polydiorganosiloxane. 4,661,556, 4-28-87, Cl. 524-745.000.

Huebner, Erwin, to Siemens Aktiengesellschaft. Beam generating system for electron tubes, particularly travelling wave tubes. 4,644,219, 2-17-87, Cl. 313-270.000.

Hoebner, Horst; Tauber, Guenter; Hofbauer, Peter; Glatzer, Roland; Beintze, Guenther; Wagner, Dieter; and Riege, Guenter, to Schott Gerate GmbH. Capillary viscometer. 4,685,328, 8-11-87, Cl. 73-55.000.

Huebner, Klemens: *See*—
Heynisch, Hinrich; and Huebner, Klemens, 4,698,818, Cl. 372-34.000.

Huebner, Victor R.; and Hartman, Scott K., to CooperBiomedical, Inc. Optical detector circuit for photometric instrument. 4,688,017, 8-18-87, Cl. 340-347.0NT.

Hueck, Eduard: *See*—
Espe, Rolf, 4,646,634, Cl. 101-32.000.

Huegel, Irene: *See*—
Mehmert, Larry B.; and Huegel, Irene, 4,702,828, Cl. 210-131.000.

Huegel, Robert: *See*—
Herb, Armin; Huegel, Robert; and Leuthi, Rudolf, 4,673,321, Cl. 411-40.000.

Hueller Hille GmbH: *See—*

- Jaissle, Hans-Ulrich; Hofmann, Manfred; and Geiger, Dietrich, 4,646,421, Cl. 29-568.000.

Huels Aktiengesellschaft: *See—*

- Balzer, Dieter, 4,705,110, Cl. 166-274.000.
- Berke, Fritz; Kehr, Helmut; and Kuhnle, Adolf, 4,661,163, Cl. 106-270.000.
- Gerth, Christian; and Droscher, Michael, 4,708,986, Cl. 525-177.000.
- Herrmann, Christoph, 4,670,518, Cl. 515-332.800.
- Kaufhold, Manfred, 4,642,405, Cl. 585-435.000.
- Kehr, Helmut; and Denzel, Horst, 4,707,413, Cl. 428-440.000.
- Mueller, Dieter J., 4,702,809, Cl. 204-157.630.
- Muller, Dieter J.; and Wehmeyer, Heinrich, 4,714,792, Cl. 570-261.000.
- Muller, Dieter J., 4,716,255, Cl. 570-216.000.
- Olbrich, Juergen; Eiethan, Uwe; and Sorge, Gernold, 4,695,613, Cl. 525-533.000.
- Riemer, Heinz; and Friedrich, Werner, 4,675,026, Cl. 44-51.000.
- Sielfeld, Gilbert, 4,659,794, Cl. 526-200.000.
- Sridhar, Srinivasan; and Hartmann, Manfred, 4,645,570, Cl. 203-73.000.
- Voges, Heinz-Werner; and Schmidt, Arno Siegmar, 4,644,086, Cl. 568-804.000.
- Zerpner, Dieter; Streck, Roland; and Haag, Horst G., 4,681,961, Cl. 556-428.000.

Huelsmann, Dieter: *See—*

- Atalar, Abdullah; Fischbach, Herbert; and Huelsmann, Dieter, 4,645,937, Cl. 250-561.000.

Huemer, Franz X. Driving arrangement for a circular loom. 4,658,862, 4-21-87, Cl. 139-13.00R.

Huemer, Franz X. Extrusion apparatus for manufacturing foil out of plastic. 4,708,616, 11-24-87, Cl. 425-133.500.

Huenniger, Edward A., to Carrier Corporation. Automatic anti-surge control for dual centrifugal compressor system. 4,646,530, 3-3-87, Cl. 62-175.000.

Huenniger, Edward A., to Carrier Corporation. Discharge valve and baffle assembly for a refrigeration system. 4,653,286, 3-31-87, Cl. 62-174.000.

Huerstel, Eugene W. Batting practice device. 4,655,452, 4-7-87, Cl. 273-26.00R.

Huesman, Edward H., to General Motors Corporation. Windshield wiper ball joint. 4,639,160, 1-27-87, Cl. 403-71.000.

Huet, Daniel; and Lambert, Marc, to Compagnie Generale d'Electricite. Molecular beam generator using thermal decomposition for manufacturing semiconductors by epitaxy. 4,699,083, 10-13-87, Cl. 118-719.000.

Huet, Roger, to Aluminum Company of America. Aluminum alloy having improved properties. 4,714,588, 12-22-87, Cl. 420-534.000.

Huet, Yves; and Perichon, Christian, to Framatome & Cie. Device for controlling the supply of fluid under pressure to a hydraulic circuit as a function of the state of locking of unlocking of two mechanical members. 4,637,294, 1-20-87, Cl. 91-536.000.

Huether, Werner, to MTU Motoren-und Turbinen-Union Munchen GmbH. Hybrid vane or blade for a fluid flow engine. 4,645,421, 2-24-87, Cl. 416-92.000.

Huether, Werner, to MTU Motoren-und Turbinen-Union Munchen GmbH. Sintering process for prealloyed powders. 4,707,332, 11-17-87, Cl. 419-28.000.

Huetsch, Larry, to Madock, Michael. Continuous shaft-driven industrial robot. 4,685,861, 8-11-87, Cl. 414-729.000.

Huey, Larry J.; and Beuther, Paul D., to Owens-Corning Fiberglas Corporation. Method and apparatus for making non-circular mineral fibers. 4,636,234, 1-13-87, Cl. 65-2.000.

Huey, Larry J., to Owens-Corning Fiberglas Corporation. Method and apparatus for making tapered mineral and organic fibers. 4,666,485, 5-19-87, Cl. 65-2.000.

Huey, Larry J.; and Marra, Jerome F., to Owens-Corning Fiberglas Corporation. Method and apparatus for forming glass fibers. 4,675,039, 6-23-87, Cl. 65-2.000.

Hufenus, Jean. Variable balance racket. 4,690,406, 9-1-87, Cl. 273-73.00J.

Huff, George L.; and Bales, Emmett R., to MECO Corporation. Electric barbeque cooker. 4,663,517, 5-5-87, Cl. 219-404.000.

Huff, George L.: *See—*

- Bales, Emmett R.; and Huff, George L., 4,683,866, Cl. 126-25.00B.

Huff, Glenn E.: *See—*

- Boeckmann, Hugo; Huff, Glenn E.; and Tilman, Paul A., 4,708,245, Cl. 206-330.000.

Huff, James R.: *See—*

- Vanderborgh, Nicholas E.; Springer, Thomas E.; and Huff, James R., 4,650,727, Cl. 429-19.000.

Huff, Joel R.; Baldwin, John J.; Sakurai, Yojiro; Vacca, Joseph P.; and Guare, James P., Jr., to Merck & Co., Inc. Substituted benzo[b]furo- and benzo[b]thieno quinolizines. 4,686,226, 8-11-87, Cl. 514-285.000.

Huff, Joel R.; Vacca, Joseph P.; and Baldwin, John J., to Merck & Co., Inc. Substituted hexahydro arylquinolizines as α_2 blockers. 4,690,928, 9-1-87, Cl. 514-285.000.

Huff, Joel R.: *See—*

- Baldwin, John J.; Huff, Joel R.; Vacca, Joseph P.; Young, Steven D.; deSolms, Jane; and Guare, James P., Jr., 4,710,504, Cl. 514-267.000.

Huff, John: *See—*

- Zurilla, Ronald W.; and Huff, John, 4,681,641, Cl. 148-6.15Z.
- Zurilla, Ronald W.; and Huff, John, 4,713,121, Cl. 428-472.300.

Huff, Ray V.; Axen, Steven G.; and Baughman, David R., to IS Ventures, Inc. Method of in-situ leaching of ores. 4,634,187, 1-6-8 Cl. 299-4.000.

Huff, Terrence; and Langer, Arthur W., Jr., to Exxon Chemical Patents Inc. High efficiency polymerization catalyst component for use in the polymerization of propylene and higher alpha-olefins. 4,677,0 6-30-87, Cl. 502-121.000.

Huffman, Jacque S., to American Telephone and Telegraph Company AT&T Bell Laboratories. Microprocessor peripheral access control circuit. 4,692,895, 9-8-87, Cl. 364-900.000.

Huffman, John W.; Picht, Brian J.; and Tyson, Ben B., to Hewlett-Packard Company. Ribbon shield for impact printer and method for controlling ink flow therein. 4,684,273, 8-4-87, Cl. 400-247.000.

Huffman, Joseph G.; and Seidl, Thomas L., to Duncan Aviation, Inc. Lightweight auxiliary power and forced air supply unit. 4,706,90 11-17-87, Cl. 244-118.500.

Huffman, Joseph L., to Dresser Industries, Inc. Adjuster for thrust washer wear. 4,690,573, 9-1-87, Cl. 384-251.000.

Huffman, Samuel J.; and Tinsley, Joel R., to Basic American Foods. Dehydrated legume product and process for producing same. 4,676,990, 6-30-87, Cl. 426-634.000.

Huffman, William A., to Minnesota Mining and Manufacturing Company. Pleochroic dyes and electro-optical displays therewith. 4,702,561, 10-27-87, Cl. 350-349.000.

Huffman, William F.: *See—*

- Ali, Fadia E.; and Huffman, William F., 4,684,622, Cl. 514-11.00
- Ali, Fadia E.; Huffman, William F.; Marshall, Garland R.; and Moore, Michael L., 4,687,758, Cl. 514-11.000.
- Callahan, James F.; Huffman, William F.; Moore, Michael L.; and Yim, Nelson C., 4,658,015, Cl. 530-329.000.
- Callahan, James F.; Huffman, William F.; Moore, Michael L.; and Yim, Nelson C., 4,684,621, Cl. 514-11.000.

Huffnagle, Norman P., to Honeywell Inc. Thermal energy proximity detector. 4,691,105, 9-1-87, Cl. 250-338.000.

Hufford, Donald L. Material handling sensor device and method. 4,662,668, 5-5-87, Cl. 294-64.100.

Huffy Corporation: *See—*

- Allen, David A.; and Miilu, John H., 4,651,646, Cl. 206-579.00
- Allen, David A.; and Diekman, Robert L., 4,657,270, Cl. 280-7.1
- Diekman, Robert L.; and Downing, V. Daniel, 4,648,616, Cl. 280-281.00R.
- Diekman, Robert L., 4,680,849, Cl. 29-252.000.
- Leppek, William W., 4,637,534, Cl. 224-36.000.

Hufgard, John W.: *See—*

- Hicks, Roger J.; and Hufgard, John W., 4,640,696, Cl. 55-227.0

Hufman, Marie C.; and Hufman, Norman C. Level with dual pointer. 4,680,867, 7-21-87, Cl. 33-391.000.

Hufman, Norman C.: *See—*

- Hufman, Marie C.; and Hufman, Norman C., 4,680,867, Cl. 33-391.000.

Hufnagel, John P.: *See—*

- Yanosy, John A., Jr.; Dennett, Anthony J.; and Hufnagel, John P., 4,677,611, Cl. 370-85.000.

Hufnagel, Paul L. Machine for partially or completely disassembling wood pallets. 4,649,617, 3-17-87, Cl. 29-426.400.

Hufnagel, Robert E.: *See—*

- Akkapeddi, Prasad R.; and Hufnagel, Robert E., 4,668,083, Cl. 355-100.000.

Hufnagle, Douglas R. Combination sterile pad support and lance. 4,635,633, 1-13-87, Cl. 128-314.000.

Hufschmid, Eric B. Multiple speed transmission for bicycles. 4,634,4 1-6-87, Cl. 474-49.000.

Hug, Peter, to Hammerle AG. Apparatus for the handling of metal sheets. 4,708,573, 11-24-87, Cl. 414-589.000.

Hugele, Benoit, to Hutchinson S.A. Safety device and tire construction for vehicles or other contrivances. 4,681,147, 7-21-87, Cl. 152-158.000.

Hugelmann, Peter, to INA Bearing Company Limited. Ball joint. 4,666,329, 5-19-87, Cl. 403-127.000.

Hugemann, Bernhard: *See—*

- Coesfeld, Dieter; Hugemann, Bernhard; Scondo, Ludwig; Schuster, Wilhelm; Schwabe, Hans D.; Stahl, Jurgen; and Stosser, Klaus, 4,658,644, Cl. 73-146.800.

Hugg, Clifford R. Retractable swivel stud. 4,685,237, 8-11-87, Cl. 42-85.000.

Huggard, Mark T., to Mobil Oil Corporation. Foamable composition and process for forming same. 4,710,522, 12-1-87, Cl. 521-138.000.

Huggett, Christopher D.: *See—*

- Floyd, John T.; Huggett, Christopher D.; Jones, Michael A.; and Woods, John R. G., 4,672,330, Cl. 331-4.000.

Huggins, George R.: *See—*

- Cutler, Winnifred B.; Preti, George; and Huggins, George R., 4,670,401, Cl. 436-65.000.

Huggins, Hal A.: *See—*

- Pearman, Bruce W.; and Huggins, Hal A., 4,641,089, Cl. 324-103.00P.

Huggins, Michael J.: *See—*

- Morscheck, Timothy J.; Davis, Alan R.; and Huggins, Michael J., 4,676,115, Cl. 74-339.000.

Huggins, Orville C., to Monarch Marking Systems, Inc. Printing apparatus. 4,635,547, 1-13-87, Cl. 101-292.000.

Huggins, Raymond W.; and Shoemaker, Ralph A., to Xerox Corporation. Feedability sensor for a vacuum corrugated feeder. 4,638,98 1-27-87, Cl. 271-98.000.

gins, Raymond W., to Xerox Corporation. Belt speed measurement
ng an optical fiber reflectometer. 4,687,925, 8-18-87, Cl. 250-
3.00R.
gins, Richard A. Cleaning system for static charged semiconductor
afer surface. 4,677,704, 7-7-87, Cl. 15-1.50R.
gins, Richard A., to Automatic Connector, Inc. Hermetic seal for
ectrical coaxial connector. 4,714,432, 12-22-87, Cl. 439-271.000.
h Steeper Limited: *See—*
Kemp, Martin. 4,636,221, Cl. 623-59.000.
hes Aircraft Company: *See—*

Ahrens, Allan F.; and Martinelli, Robert M., 4,691,159, Cl. 323-222.000.

Alm, Ake W., 4,712,010, Cl. 250-334.000.

Amboss, Kurt, 4,656,393, Cl. 315-5.380.

Amboss, Kurt, 4,668,893, Cl. 315-3.500.

Amboss, Kurt, 4,687,417, Cl. 417-49.000.

Amoroso, Frank; and Cullings, John S., 4,644,299, Cl. 331-78.000.

Andrews, LaVern A.; and Moraitis, Dennis, 4,649,390, Cl. 342-140.000.

Bagby, John F.; and Hedden, Richard L., 4,695,139, Cl. 350-620.000.

Baratti, James J.; McCollough, Mike; and Gouzoules, Glenn P., 4,697,279, Cl. 377-73.000.

Basiulis, Algerd, 4,673,030, Cl. 165-32.000.

Beasley, James E.; and Lindsey, Steven M., 4,698,521, Cl. 307-270.000.

Beaubien, Randall S.; and Erps, Lorri A., 4,700,462, Cl. 437-187.000.

Beining, August H.; and Smith, William A., 4,692,809, Cl. 358-247.000.

Beining, August H.; Dial, Larry A.; Smith, William A.; and Rieck, Gene W., 4,695,827, Cl. 340-365.00P.

Berger, Robert O., 4,672,451, Cl. 358-168.000.

Beyerbach, Daniel M.; Scott, William L.; and Goczalk, Robert W., 4,686,458, Cl. 324-83.00D.

Blackstone, Gary W., 4,683,471, Cl. 340-825.500.

Blair, G. Richard; and Pikulski, Joseph L., 4,669,821, Cl. 350-96.340.

Brault, Robert G., 4,665,009, Cl. 430-325.000.

Buddecke, Charles L.; and Graham, Robert F., Jr., 4,697,157, Cl. 331-78.000.

Cargille, Donald R., 4,705,946, Cl. 250-338.000.

Chang, Donald C. D.; and Ha, Eng-Chong, 4,635,063, Cl. 342-380.000.

Chang, Donald C. D.; and Wong, Mon N., 4,686,493, Cl. 333-113.000.

Chen, John Y.; and Henderson, Richard C., 4,679,303, Cl. 29-571.000.

Chen, John Y., 4,710,477, Cl. 437-34.000.

Cinzori, Robert J., 4,684,248, Cl. 356-152.000.

Clark, Robert T., 4,697,160, Cl. 333-103.000.

Clark, William M., Jr.; Urlaut, Mark W.; Wysocki, Joseph A.; Storms, Edmund K.; Szklarz, Eugene G.; Behrens, Robert G.; Swanson, Lynwood W.; and Bell, Anthony E., 4,670,685, Cl. 313-230.000.

Conroy-Wass, Theodore R., 4,713,014, Cl. 439-67.000.

Crawford, James A., 4,634,998, Cl. 331-1.00A.

Crawford, James A.; and Frey, Gary D., 4,668,922, Cl. 331-1.00A.

Crookshanks, Rex J., 4,652,816, Cl. 324-77.00B.

Crookshanks, Rex J., 4,667,151, Cl. 324-77.00B.

Crookshanks, Rex J., 4,679,161, Cl. 364-571.000.

Crookshanks, Rex J., 4,715,029, Cl. 370-70.000.

Des Brisay, George S., Jr., 4,695,743, Cl. 307-272.200.

Dewhirst, Donald R.; and Duvall, Robert L., III, 4,660,204, Cl. 372-16.000.

DuPont, Preston S.; Ritter, Robert E.; and Stafford, John P., 4,705,646, Cl. 252-511.000.

Duvall, Robert L., III; Halmos, Maurice J.; and Henderson, David M., 4,662,741, Cl. 356-5.000.

Duvall, Robert L., III; Halmos, Maurice J.; and Henderson, David M., 4,666,295, Cl. 356-5.000.

Efron, Uzi; and Soffer, Bernard H., 4,679,910, Cl. 350-335.000.

Eggert, Dennis J.; Hendrix, Charles E.; and Krinsky, Barnet, 4,638,320, Cl. 342-442.000.

Ellerbroek, Brent L., 4,690,555, Cl. 356-121.000.

Ellerbroek, Brent L.; and Cohn, Brian D., 4,705,400, Cl. 356-353.000.

Ellion, M. Edmund; and Wolff, George, 4,692,559, Cl. 136-262.000.

Ellion, M. Edmund, 4,710,588, Cl. 136-206.000.

Estrick, Vaughn H.; and Guadagnolo, Robert N., 4,704,737, Cl. 455-226.000.

Feintuch, Paul L., 4,654,835, Cl. 367-100.000.

Ferrer, John J., 4,664,475, Cl. 350-174.000.

Fossum, Eric R., 4,686,648, Cl. 364-862.000.

Franklin, James D.; and Dewhirst, Donald R., 4,656,433, Cl. 330-4.300.

Gagnon, Ralph J., 4,715,684, Cl. 350-331.00R.

Garlick, George F. J., 4,656,419, Cl. 324-158.00D.

Gates, Louis E., Jr.; Kamensky, Albert; and Devendorf, Don C., 4,705,917, Cl. 174-52.0FP.

Gee, Caroline M.; and Thurmond, Gary D., 4,690,488, Cl. 350-96.120.

Graves, Ross E., 4,673,944, Cl. 342-424.000.

Griffin, Arthur F., 4,636,974, Cl. 364-900.000.

Griffin, William S., 4,662,727, Cl. 350-500.000.

Grinberg, Jan; and Little, Michael J., 4,688,897, Cl. 350-336.000.

Grinberg, Jan; and Yamagishi, Frederick G., 4,697,247, Cl. 364-713.000.

Halmos, Maurice J.; and Henderson, David M., 4,660,206, Cl. 372-28.000.

Hanson, Allan W.; and Christiansen, Theron L., 4,701,731, Cl. 333-257.000.

Harvey, Robin J.; Gallagher, Hayden E.; and Schumacher, Robert W., 4,642,522, Cl. 315-111.310.

Harvey, Robin J.; and Gallagher, Hayden E., 4,645,978, Cl. 315-111.810.

Harvey, Robin J., 4,697,272, Cl. 372-99.000.

Harvey, Robin J., 4,707,637, Cl. 315-111.810.

Heard, Charles M.; and Yang, Frank C., 4,712,222, Cl. 375-77.000.

Heath, Herbert E.; and Block, Jay M., 4,688,072, Cl. 357-45.000.

Hendrix, James L.; and Braun, Leroy O., 4,682,336, Cl. 372-10.000.

Hubbard, Robert F.; and Jacobs, Joseph M., 4,654,507, Cl. 219-233.000.

Hudspeth, Thomas; and Ross, Barry S., 4,652,841, Cl. 333-107.000.

Jergenson, Jerg B., 4,638,210, Cl. 313-362.100.

Kahan, Osher, 4,637,028, Cl. 372-34.000.

Kahan, Osher, 4,671,624, Cl. 350-405.000.

Kelchner, Raymond E., Jr., 4,661,390, Cl. 428-113.000.

Kelchner, Raymond E., Jr., 4,662,836, Cl. 425-223.000.

Kern, Mark T.; and Shamordola, Kenneth A., 4,665,390, Cl. 340-587.000.

Kich, Rolf, 4,677,403, Cl. 333-229.000.

Klatt, Robert W., 4,692,618, Cl. 250-330.000.

Knauer, Wolfgang, 4,634,871, Cl. 250-398.000.

Koda, Nobuo J.; Bleha, William P., Jr.; Giehll, Harry W.; Reinsch, Stephen J.; and Robusto, Paul F., 4,650,286, Cl. 350-331.00R.

Kramer, Nathan R., 4,642,038, Cl. 425-93.000.

Landecker, Peter B., 4,679,753, Cl. 244-171.000.

Landis, Abraham L.; and Naselow, Arthur B., 4,645,824, Cl. 528-353.000.

Landis, Abraham L.; and Naselow, Arthur B., 4,661,650, Cl. 136-256.000.

Lang, Arthur D.; Moorehouse, James R.; and O'Brien, Edwin L., 4,647,884, Cl. 333-248.000.

Larson, Lawrence E., 4,682,149, Cl. 340-347.0DA.

Lau, Kreisler S. Y.; and Kelleghan, William J., 4,649,207, Cl. 549-563.000.

Lau, Kreisler S. Y.; and Kelleghan, William J., 4,695,655, Cl. 568-56.000.

Lau, Kreisler S. Y.; and Kelleghan, William J., 4,708,991, Cl. 525-275.000.

Ledebuhr, Arno G., 4,687,301, Cl. 350-401.000.

Ledebuhr, Arno G., 4,690,526, Cl. 353-31.000.

Lee, George M., 4,712,294, Cl. 29-600.000.

Lee, Kuan M.; Wong, Nam S.; Chu, Ruey S.; and Tang, Ray, 4,689,627, Cl. 342-373.000.

Lee, William W. Y.; and Chang, Kuang-Yeh, 4,683,488, Cl. 357-42.000.

Leong, Douglas H., 4,649,626, Cl. 29-571.000.

Lewis, Dan E.; and Gandersen, James L., 4,636,773, Cl. 340-347.0DA.

Leyden, Richard N.; and Lawrence, Robert, 4,639,290, Cl. 156-644.000.

Liao, Kuan Y.; Chang, Kuang-Yeh; and Ma, Hsing-Chien, 4,645,562, Cl. 156-643.000.

Lind, Harold V., 4,704,585, Cl. 331-14.000.

Linder, Jacques F., 4,710,448, Cl. 430-314.000.

Macaulay, Malcolm; and Singleton, William F., 4,683,467, Cl. 340-705.000.

MacPherson, Duncan, 4,701,791, Cl. 358-109.000.

Manoly, Arthur E., 4,712,293, Cl. 29-600.000.

Marciniak, Hans C.; and Goodwin, Frank E., 4,677,635, Cl. 372-55.000.

Marom, Emanuel, 4,707,077, Cl. 350-162.120.

Marshall, Neil A., 4,695,788, Cl. 324-527.000.

McAnulty, John A., Sr., 4,673,231, Cl. 439-587.000.

McClanahan, Robert F.; Washburn, Robert; and Hwang, William, 4,709,215, Cl. 330-43.000.

McClung, Frederick J., Jr.; and Small, James G., 4,700,068, Cl. 250-251.000.

McGowan, George A.; and Kaplan, Robert L., 4,641,288, Cl. 367-20.000.

McGowan, George A.; and MacCulloch, David B., 4,660,183, Cl. 367-15.000.

McKenna, Charles M.; Sharapata, Irwin R.; and Clark, William M., Jr., 4,686,414, Cl. 313-362.100.

Mollett, Larry R.; and Goczalk, Robert W., 4,691,173, Cl. 330-144.000.

Morse, Arthur L.; and Thompson, Niels A., 4,684,800, Cl. 250-211.00J.

Moss, Gaylord E.; Chern, Mao-Jin; and Dobbs, Teena L., 4,637,678, Cl. 350-3.700.

Moulin, Norbert L., 4,707,068, Cl. 350-96.210.

Musslyn, Eugene F.; and Kelkar, Anand, 4,687,970, Cl. 315-106.000.

Myer, Jon H., 4,636,801, Cl. 343-781.0CA.

Myer, Jon H., 4,654,951, Cl. 29-453.000.

Myer, Jon H., 4,669,818, Cl. 350-96.200.

Nestlerode, C. Dale, 4,701,732, Cl. 334-56.000.

Newcomb, Russell R.; and Black, William C., 4,668,936, Cl. 340-347.0AD.

Nudd, Graham R.; and Marom, Emanuel, 4,707,859, Cl. 382-28.000.

O'Brien, Edwin L., 4,688,044, Cl. 342-160.000.
O'Connor, Roger J.; and Lane, Keith A., 4,677,617, Cl. 370-100.000.
Oldham, Susan L., 4,681,718, Cl. 264-102.000.
O'Meara, Thomas R., 4,642,582, Cl. 332-7.510.
O'Meara, Thomas R.; and Lind, Richard C., 4,715,689, Cl. 350-354.000.
Paranto, Joseph N.; Wang, John H. S.; and Williams, Larry, 4,686,681, Cl. 372-82.000.
Parsons, James D.; and Snyder, David E., 4,677,451, Cl. 357-22.000.
Pastor, Antonio C., 4,687,538, Cl. 156-616.00R.
Pastor, Ricardo C.; and Lee, Florentino V., 4,636,378, Cl. 423-598.000.
Pastor, Ricardo C., 4,680,044, Cl. 65-3.110.
Patraw, Nils E., 4,695,870, Cl. 357-74.000.
Patraw, Nils E., 4,716,049, Cl. 427-96.000.
Peters, John W., 4,652,463, Cl. 427-53.100.
Pikulski, Joseph L.; and Ramer, O. Glenn, 4,647,147, Cl. 350-96.170.
Pikulski, Joseph L.; and Ramer, O. Glenn, 4,708,431, Cl. 350-96.200.
Ramer, O. Glenn, 4,679,893, Cl. 350-96.140.
Rand, Stephen C.; and DeShazer, Larry G., 4,638,484, Cl. 372-42.000.
Ranganath, Tirumala R., 4,706,103, Cl. 357-30.000.
Reed, Elmer E., 4,676,578, Cl. 439-465.000.
Reimann, William G., 4,663,497, Cl. 174-68.500.
Robinson, Morton, 4,659,352, Cl. 65-2.000.
Rosen, Harold A.; and Wittmann, Alois, 4,699,329, Cl. 244-158.00R.
Schaefer, Robert D.; and Kiunke, Paul C., 4,701,602, Cl. 250-201.000.
Schneider, Michael D., 4,704,590, Cl. 333-115.000.
Shifrin, Gordon A., 4,674,871, Cl. 356-73.000.
Shifrin, Gordon A.; and Hunsperger, Robert G., 4,677,740, Cl. 29-576.00B.
Simons, David R., 4,705,343, Cl. 350-1.300.
Slayman, Charles W.; and Figueroa, Luis, 4,696,648, Cl. 437-5.000.
Soffer, Bernard H.; Efron, Uzi; and Marom, Emanuel, 4,686,647, Cl. 364-850.000.
Stadnick, Steven J.; and Rogers, Howard H., 4,683,178, Cl. 429-101.000.
Stadnick, Steven J.; and Rogers, Howard H., 4,689,544, Cl. 320-46.000.
Steffy, David A., 4,711,417, Cl. 244-158.00R.
Takamine, Henry, 4,713,612, Cl. 324-158.00D.
Takamine, Henry K.; and Olivares, Leonard, 4,672,312, Cl. 324-158.00F.
Takamine, Henry K., 4,712,062, Cl. 324-158.00F.
Tangonan, Gregory L.; and Yen, Huan-Wun, 4,701,009, Cl. 350-96.120.
Tangonan, Gregory L.; Yen, Huan-Wun; and Persechini, David L., 4,711,514, Cl. 350-96.120.
Terbrack, William H.; Brion, Harvey F.; and Minear, Ronald J., 4,649,570, Cl. 455-344.000.
Tsuda, George I.; and Edelsohn, Charles R., 4,649,391, Cl. 342-153.000.
Tsuda, George I., 4,679,207, Cl. 375-1.000.
Vasudev, Prahalad K., 4,659,392, Cl. 148-1.500.
Vitriol, William A.; and Brown, Raymond L., 4,645,552, Cl. 156-89.000.
von der Embse, U. A., 4,689,806, Cl. 375-111.000.
von der Embse, U. A., 4,706,263, Cl. 375-96.000.
Wang, John H. S.; Paranto, Joseph N.; and Lovejoy, Christopher M., 4,651,325, Cl. 372-82.000.
Ward, J. William; Bartelt, John L.; Seliger, Robert L.; and McKenna, Charles M., 4,687,940, Cl. 250-492.200.
Weiner, Jerome M., 4,682,888, Cl. 356-73.000.
Wessel, Frank J.; and Hancock, Donald J., 4,638,149, Cl. 219-499.000.
Wheeler, Bryce A., 4,691,999, Cl. 350-620.000.
Wiley, Carl A., 4,654,666, Cl. 342-351.000.
Wittmann, Alois; Isaacs, Theodore M.; and Murphy, John R., 4,679,752, Cl. 244-158.00R.
Wittmann, Alois, 4,715,565, Cl. 244-158.00R.
Wong, Mon N.; and Steele, Jeffrey D., 4,654,611, Cl. 333-157.000.
Wong, Mon N.; and Linhardt, Wilbur J., 4,688,006, Cl. 333-113.000.
Wong, Mon N.; and Peebles, Ann L., 4,691,177, Cl. 333-113.000.
Wreede, John E.; and Arns, James A., 4,687,720, Cl. 430-2.000.
Wu, Ning, 4,660,978, Cl. 356-353.000.
Yang, Steve S., 4,677,392, Cl. 330-284.000.
Zwirn, Robert, 4,667,238, Cl. 358-166.000.
Zwirn, Robert, 4,713,694, Cl. 358-171.000.

Hughes, Anthony J.: *See—*
McDonnell, Damien G.; Gordon, Paul F.; Hughes, Anthony J.; and Thompson, David J., 4,668,811, Cl. 556-146.000.

Hughes, Bradley E., to Schwinn Bicycle Company. Saddle for bicycle used in performing freestyle maneuvers. 4,662,677, 5-5-87, Cl. 297-195.000.

Hughes, Brett A.; Gilbert, David L.; and Ellerbrock, Eugene A., to Aeroquip Corporation. Beadlock wrench float fitting. 4,689,868, 9-1-87, Cl. 29-523.000.

Hughes, Charles W.: *See—*
Yao, Samuel S.; and Hughes, Charles W., 4,650,401, Cl. 416-134.00A.

Hughes, David B.: *See—*
Porcher, Thomas C.; Robinson, Morgan E.; and Hughes, David
4,667,307, Cl. 364-900.000.

Hughes, David C., to Milton Bradley Company. Rotating amuse
device having motion governor. 4,641,831, 2-10-87, Cl. 272-31.00

Hughes, David E.: *See—*
Kalaskie, William S.; and Hughes, David E., 4,706,92
251-14.000.

Hughes, David L., to Merck & Co., Inc. Process for the preparation
esters of amino acids. 4,654,433, 3-31-87, Cl. 560-40.000.

Hughes, David T.: *See—*
Worns, John R.; Farber, Milton; and Hughes, David T., 4,686,1
Cl. 430-286.000.

Hughes, David W., to Vetco Offshore, Inc. Subsea control pod va
assembly. 4,637,419, 1-20-87, Cl. 137-236.100.

Hughes, Donald R. Key operated lock. 4,683,739, 8-4-87, C
70-363.000.

Hughes, Frank M.: *See—*
Engle, Vencil D.; Hafer, Cameron H.; Hughes, Frank M.; Stu
Donald J.; Stewart, Edward G.; Street, Ramon L.; and Thom
son, John A., 4,650,351, Cl. 400-120.000.

Hughes, Gary: *See—*
Schad, Robert D.; Rees, Herbert; Hughes, Gary; and Murch
John R., 4,690,633, Cl. 425-526.000.

Hughes, Gary N.: *See—*
Goode, Henry C.; Hughes, Gary N.; and Michelotti, Donald F.
4,668,271, Cl. 65-137.000.
Radecki, Francis A.; Hughes, Gary N.; and Goode, Henry C.
4,676,819, Cl. 65-135.000.

Hughes, Garyth: *See—*
Gardiner, Robert W.; Viney, Brian W.; and Hughes, Garyt
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Hughes, George W. Locking means for garage door actuator sig
transmitters. 4,646,072, 2-24-87, Cl. 340-696.000.

Hughes, Harry: *See—*
Tsui, Cyrus; Chan, Andrew K. L.; Chan, Albert; Fitzpatrick, Ma
E.; Ansari, Zahid; and Hughes, Harry, 4,684,830, Cl. 307-465.0

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  - Homann, Walter K., 4,665,241, Cl. 568-868.000.
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  - Lohrengel, Gregor, 4,692,482, Cl. 523-340.000.
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  - Nordsiek, Karl-Heinz; Wolpers, Jurgen; and Tornau, Johannes, 4,673,709, Cl. 525-99.000.
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Alstetter, Franz; and Hultsch, Guenther, 4,710,356, Cl. 422-140.000.
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Katz, Alan H.; Demerson, Christopher A.; and Humber, Leslie G., 4,670,462, Cl. 514-411.000.
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Heng, Jean-Paul; Jusseau, Marcel; and Humbert-Labeaumaz, Alain, 4,712,863, Cl. 350-96.210.
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mbs, Rolf; and Stempfl, Gerhard, to Siemens Aktiengesellschaft. Joining apparatus for sheet metal assembly of appliance housings. 4,688,692, 8-25-87, Cl. 220-3.800.
mco, Inc.: *See—*
Hummel, Gene S.; and Hummel, Mark L., 4,696,368, Cl. 180-309.000.
me, Catherine G., executor: *See—*
Hume, Kenneth J., deceased; and Ogborne, Laurence N., 4,686,876, Cl. 83-455.000.

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Hume, James G.: *See—*
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Hume, Robert M., III, to H. B. Fuller Company. Book binding process involving primer adhesive containing starch. 4,702,496, 10-27-87, Cl. 281-15.00R.
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Hume, Roger A.: *See—*
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Hume, Ronald W., to Equip-Mark, Inc. Volume responsive liquid discharge nozzle. 4,635,691, 1-13-87, Cl. 141-94.000.
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Churchwell, Robert W.; Flaitz, Philip L.; and Humenik, James N., 4,672,739, Cl. 29-589.000.
Humes, Danny W.: *See—*
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Lee, Kevin J.; and Carty, Noel C., 4,685,656, Cl. 256-13.100.
Humke, Rainer, to Hoechst Aktiengesellschaft. Process for treating anestrus in ewes or beef cattle. 4,673,665, 6-16-87, Cl. 514-15.000.
Hummel, Dietmar: *See—*
Daiger, Robert; Hoeren, Kurt; and Hummel, Dietmar, 4,670, 30, Cl. 340-870.290.
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Hummel, Karl, to Interlava AG. Vacuum cleaner. 4,680,827, 7-21-87, Cl. 15-319.000.
Hummel, Keith: *See—*
Lane, Darryl; Barr, B. G.; Dutton, Mike; Frain, Mike; Frechette, Simon; Hummel, Keith; Majerle, John; Majerle, Joseph; Rogers, Steve; Unger, Mark; and Umholtz, Robert, 4,664,366, Cl. 269-303.000.
Hummel, Mark L.: *See—*
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Hummel, Mary: *See—*
Kieff, Elliott; Tanner, Jerome; Hummel, Mary; and Beisel, Christopher, 4,707,358, Cl. 424-89.000.
Hummel, Peter; and Steuer, Joachim, to M.A.N.-Roland Druckmaschinen Aktiengesellschaft. Ink dispensing means for printing presses. 4,711,175, 12-8-87, Cl. 101-365.000.
Hummel, Peter: *See—*
Kemmerer, Klemens; and Hummel, Peter, 4,712,475, Cl. 101-348.000.
Hummelen, Jan C.; Meijer, Egbert W.; and Wynberg, Hans, to Akzo N.V. Polycycloalkylidene-polycycloalkanes, epidioxy derivatives thereof and method of preparation. 4,705,847, 11-10-87, Cl. 530-350.000.
Humpal, Harold H., to United States of America, Energy. Mirror mount. 4,705,369, 11-10-87, Cl. 350-636.000.
Humpe, Gilbert. Truck trailer loading bridge assembly. 4,634,145, 1-6-87, Cl. 280-769.000.
Humpert, Jurgen: *See—*
Kahle, Dieter; Humpert, Jurgen; and Pawelzik, Manfred, 4,687,025, Cl. 137-625.170.
Humphrey, Chris W. Alarm lock. 4,663,611, 5-5-87, Cl. 340-542.000.
Humphrey, Dallas R.: *See—*
DeGree, David C.; Bergquist, Carl R.; Humphrey, Dallas R.; and West, Roger A., 4,666,545, Cl. 156-252.000.
Humphrey, David. Anesthetic system. 4,676,239, 6-30-87, Cl. 128-205.170.
Humphrey, Denver L. Tree climbing device. 4,674,597, 6-23-87, Cl. 182-92.000.
Humphrey, Floyd B., to Sensormatic Electronics Corporation. Article surveillance magnetic marker having an hysteresis loop with large Barkhausen discontinuities. 4,660,025, 4-21-87, Cl. 340-572.000.
Humphrey, Floyd B., to Sensormatic Electronics Corporation. Method, system and apparatus for use in article surveillance. 4,686,516, 8-11-87, Cl. 340-572.000.
Humphrey Instruments, Inc.: *See—*
Humphrey, William E., 4,640,596, Cl. 351-211.000.
Humphrey, William E., 4,650,301, Cl. 351-2 000.
Humphrey, William E., 4,669,835, Cl. 351-205.000.
Humphrey, William E., 4,707,090, Cl. 351-211.000.
Lehmer, Donald E.; and Humphrey, William E., 4,675,736, Cl. 358-183.000.
Shinn, Alan L., 4,695,831, Cl. 340-707.000.
Humphrey, John R., to International Packaging Machines, Inc. Stretch wrapping machine. 4,693,049, 9-15-87, Cl. 53-64.000.

Humphrey, John R., to International Packaging Machines, Inc. Constant tension stretch wrapping machine. 4,706,443, 11-17-87, Cl. 53-556.000.

Humphrey, John W.: *See—*
  Vachhani, Vasantrai A.; and Humphrey, John W., 4,662,699, Cl. 339-97.00P.

Humphrey, Richard A.; Fisher, Steven D.; Wierenga, Steven W.; and Sjostedt, Jon, to Tandem Computers Incorporated. Memory system with operation error detection. 4,672,609, 6-9-87, Cl. 371-21.000.

Humphrey, Stanley A. Archery bow. 4,667,649, 5-26-87, Cl. 124-24.00R.

Humphrey, William E., to Humphrey Instruments, Inc. Objective refractor for the eye. 4,640,596, 2-3-87, Cl. 351-211.000.

Humphrey, William E., to Humphrey Instruments, Inc. Objective refractor for the eye. 4,650,301, 3-17-87, Cl. 351-211.000.

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Humphrey, William E., to Humphrey Instruments, Inc. Objective refractor for the eye. 4,707,090, 11-17-87, Cl. 351-211.000.

Humphrey, William E.: *See—*
  Lehmer, Donald E.; and Humphrey, William E., 4,675,736, Cl. 358-183.000.

Humphreys, Neil V.: *See—*
  Sprunt, Eve S.; Humphreys, Neil V.; Muegge, Ernest L.; and Dixon, James R., Jr., 4,688,238, Cl. 378-4.000.

Humphreys, Paula L.; and Dietsche, Thomas J., to Dow Chemical Company, The. Preparation of symmetrical tetrachloropyridine from chlorinated β-(trichloromethyl) pyridines employing a catalyst. 4,681,945, 7-21-87, Cl. 546-345.000.

Humphreys, Paula L.; Dietsche, Thomas J.; and Bixby, James L., to Dow Chemical Company, The. Method of selectively chlorinating 2-chloro-5-(trichloromethyl) pyridine in the 3-position. 4,701,532, 10-20-87, Cl. 546-345.000.

Humphreys, Robert W.; Walker, Adrian W.; Green, Robin J.; and Russell, Stephen W., to Lever Brothers Company. Liquid bleaching compositions. 4,642,198, 2-10-87, Cl. 252-94.000.

Humphries, Donald, Sr. Auto anti theft device. 4,674,307, 6-23-87, Cl. 70-278.000.

Humphries, Gillian M. K.; Parce, John W.; and McConnell, Harden M., to Molecular Devices Corporation. Photoresponsive redox detection and discrimination. 4,704,353, 11-3-87, Cl. 435-4.000.

Humphries, John; and Morrison, Neil S., to United Kingdom Atomic Energy Authority. Cold trap apparatus. 4,683,056, 7-28-87, Cl. 210-186.000.

Humphries, William H.: *See—*
  Diaz, Stephen H.; Debbaut, Christian A. M.; Humphries, William H.; Lawrence, Alvah A.; Ragland, Glen W.; and Shimirak, Gerald L., 4,648,919, Cl. 156-48.000.

Humpleman, Richard J., to International Computers Limited. Clock-/data synchronization interface apparatus and method. 4,691,294, 9-1-87, Cl. 364-900.000.

Hund, Henry M., Jr., to Dempster Systems Inc. Fork and arm mechanism for refuse container. 4,647,267, 3-3-87, Cl. 414-408.000.

Hund, Henry M., Jr., to Dempster Systems Inc. Gate operator and latch mechanism for refuse container. 4,665,649, 5-19-87, Cl. 49-280.000.

Hundebol A/S: *See—*
  Hundebol, Keld O., 4,646,473, Cl. 51-90.000.

Hundebol, Keld O., to Udviklingscentret Hansen & Hundebol A/S. Rotating grinding or polishing disc. 4,637,173, 1-20-87, Cl. 51-334.000.

Hundebol, Keld O., to Udviklingscentret Hansen; and Hundebol A/S. Method and apparatus for finishing surfaces. 4,646,473, 3-3-87, Cl. 51-90.000.

Hundeck, Joachim; Scholz, Harald; Hennen, Hans; Kuxdorf, Bernhard; and Pusche, Herbert, to Hoechst Aktiengesellschaft. Process for making 1,2-dichloroethane. 4,672,142, 6-9-87, Cl. 570-247.000.

Hundertmark, James M., to Brunswick Corporation. Pressure regulated cooling system. 4,674,449, 6-23-87, Cl. 123-41.080.

Hundertmark, James M.: *See—*
  Hensel, Robert J.; Wagner, James L.; Hundertmark, James M.; Sheridan, Stephen E.; and Heidel, David W., 4,702,202, Cl. 123-52.00M.

Hundley, Kenn W. Complete puller tool. 4,649,615, 3-17-87, Cl. 29-261.000.

Hundrieser, Dieter H., to Northern Telecom Limited. Fusible link. 4,652,848, 3-24-87, Cl. 337-297.000.

Hundstad, Richard L.: *See—*
  Kanter, Ira E.; and Hundstad, Richard L., 4,657,738, Cl. 422-186.040.

Hundt, Gary W.: *See—*
  Granberg, William J.; Wagner, Richard A.; and Hundt, Gary W., 4,709,833, Cl. 220-319.000.

Hung, Angelo C. J.; and Wang, Francis C., to Tektronix, Inc. Method for test generation. 4,716,564, 12-29-87, Cl. 371-27.000.

Hung, Francis Y.; and Livermore, Frederick C., to Northern Telecom Limited. Protection arrangement for a telephone subscriber line interface circuit. 4,709,296, 11-24-87, Cl. 361-102.000.

Hung, Jen-Lih: *See—*
  Wood, Robert B.; Hung, Jen-Lih; and Jee, Norman S., 4,655,540, Cl. 350-3.700.

Hung, Lam H., to Longreen Limited. Toy guns for firing pellets. 4,694,815, 9-22-87, Cl. 124-27.000.

Hung, Michael, to Shinn Fu Corporation. Hydraulic jack structural improvement in one-way hydraulic path in association with safety pressure relief network. 4,703,916, 11-3-87, Cl. 254-93.00H.

Hung, Michael, to Utility Electronics Industries Co. Ltd. Consta two-cylindered air compressor. 4,715,787, 12-29-87, Cl. 417-63.00.

Hung, Paul L. K.; Radigan, Richard J.; and Rosen, David S., to M&T Chemicals Inc. Printed circuit boards having improved adhesion between solder mask and metal. 4,713,298, 12-15-87, Cl. 428-461.00.

Hung, Peter; and De Luca, Paul V., to Porta Systems Corp. Resilient sealing device for telephone subscriber terminals. 4,681,383, 7-21-87, Cl. 439-135.000.

Hung, William M.; and Ehlinger, Edward E., to Hilton-Davis Chemical Company, The. Fluoran compounds and marking systems. 4,639,7 1-27-87, Cl. 346-221.000.

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Hung, William M.: *See—*
  Gunn, Michael B.; and Hung, William M., 4,652,641, Cl. 544-37.000.
  Schmidt, Paul J.; and Hung, William M., 4,636,820, Cl. 346-224.00.
  Schmidt, Paul J.; and Hung, William M., 4,661,605, Cl. 548-461.00.
  Schmidt, Paul J.; and Hung, William M., 4,688,059, Cl. 503-220.00.
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Hung, Yann; Regan, Michael T.; and Staudenmayer, William J., to Eastman Kodak Company. Photoconductive elements sensitive to infrared radiation having a bromoindium phthalocyanine pigment. 4,666,802, 5-19-87, Cl. 430-58.000.

Hung, Yann; Klose, Thomas R.; Regan, Michael T.; and Rossi, Louis J., to Eastman Kodak Company. Photoconductive phthalocyanine pigments, electrophotographic elements containing them and a method of use. 4,701,396, 10-20-87, Cl. 430-58.000.

Hungaria Muanyagfeldolgozo Vallalat: *See—*
  Nadudvari, Joszef; and Ragacs, Laszlo, 4,675,103, Cl. 210-151.00.

Hunger Douglas, Inc.: *See—*
  Anderson, Richard N., 4,635,698, Cl. 160-178.00C.

Hunger, Hans-Dieter; and Coutelle, Charles, to Akademie der Wissenschaften der DDR. Chemically active triazine support composition. 4,716,103, 12-29-87, Cl. 435-5.000.

Hunger, Josef; and Rumpp, Gerhard, to Hilti Aktiengesellschaft. Drill bit for hand-held drilling machines. 4,655,651, 4-7-87, Cl. 408-226.00.

Hunger, Josef: *See—*
  Manschitz, Erwin; Gartner, Karl-Heinz; Hunger, Josef; Spieth, Manfred; Moser, Hans-Karl; and Mundle, Jurgen, 4,655,464, Cl. 279-64.000.

Hunger, Klaus; Frolich, Heinrich; and Lenz, Hans-Joachim, to Hoechst Aktiengesellschaft. Diaryl pigments with improved heat stability obtained by coupling bis-diazotized diamines with acetoacetanilides. 4,665,163, 5-12-87, Cl. 534-746.000.

Hunger, Klaus, to Hoechst Aktiengesellschaft. Amino compounds derived from 5-acetoacetylamino-benzimidazolones. 4,677,20 6-30-87, Cl. 534-742.000.

Hunger, Klaus, to Hoechst Aktiengesellschaft. Disazo compounds derived from acetoacetylamino-benzimidazol-2-ones. 4,686,2 8-11-87, Cl. 534-742.000.

Hunger, Klaus: *See—*
  Hertel, Hasso; Hunger, Klaus; and Frolich, Heinrich, 4,696,675, Cl. 8-669.000.

Hungerford, Charles S., Jr. Connector device for supporting a conduit in a flanged channel. 4,662,590, 5-5-87, Cl. 248-72.000.

Hungerford, Charles S., Jr. Hanger for pipe clamp. 4,714,218, 12-22-87, Cl. 248-62.000.

Hungerford, David S.: *See—*
  Kenna, Robert V.; Hungerford, David S.; and Krackow, Kenneth A., 4,646,729, Cl. 128-92.0VW.
  Kenna, Robert V.; Hungerford, David S.; and Krackow, Kenneth A., 4,653,488, Cl. 128-92.0VW.

Hungerford, Robert E. Exterior entry door tethered key safe. 4,651,544, 3-24-87, Cl. 70-63.000.

Huni, Jean-Paul R.: *See—*
  Boivin, Richard F.; Huni, Jean-Paul R.; and Potocnik, Vinko, 4,683,047, Cl. 204-243.00M.
  Desclaux, Paul; and Huni, Jean-Paul R., 4,668,350, Cl. 204-67.000.

Hunjan, Harjit S.; and Jones, Daryl P., to Joy Manufacturing Company. Pump with high speed expeller. 4,648,794, 3-10-87, Cl. 415-170.00B.

Hunka, John F.: *See—*
  Barber, Thomas D.; Chandler, Richard N.; and Hunka, John F., 4,651,101, Cl. 324-339.000.

Hunkapiller, Michael W., to California Institute of Technology. Diaphragm valve. 4,703,913, 11-3-87, Cl. 251-61.100.

Hunkapiller, Michael W.: *See—*
  Bridgham, John; Geiser, Timothy G.; Hunkapiller, Michael W.; Kent, Stephen B. H.; Marriott, Mark P.; Ramstad, Paul O.; and Nordman, Eric S., 4,668,476, Cl. 422-62.000.
  Hood, Leroy E.; Hunkapiller, Michael W.; Dreyer, William J.; Hewick, Rodney M.; and Stark, Anton W., 4,704,256, Cl. 422-68.000.

Hunkele, Paul W.: *See—*
  Salmon, Michael E.; and Hunkele, Paul W., 4,682,668, Cl. 180-209.000.

Hunn, Kevin W. Jump rope. 4,637,606, 1-20-87, Cl. 272-75.000.

Hunnel, Larry B.: *See—*
  Trevison, Robert L.; McKee, William E.; and Hunnel, Larry B., 4,640,438, Cl. 220-359.000.

Hunold, Klaus; Lipp, Alfred; and Reinmuth, Klaus, to Elektroschmelzwerk Kempten GmbH. Dense shaped articles consisting of polycrystalline hexagonal boron nitride and process for their manufacture by isostatic hot-pressing. 4,634,640, 1-6-87, Cl. 428-704.000.

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- nsbedt, Anstein; and Lazarus, Jonathan D., to United States of America, Energy. Heat dissipating nuclear reactor. 4,643,870, 2-17-87, Cl. 376-280.000.
- nsbedt, Anstein: *See—*
  - Gluekler, Emil L.; Hunsbedt, Anstein; and Lazarus, Jonathan D., 4,650,642, Cl. 376-280.000.
- nsicker, Richard. Telephone monitoring device. 4,656,657, 4-7-87, Cl. 379-140.000.
- nsperger, Robert G.: *See—*
  - Shifrin, Gordon A.; and Hunsperger, Robert G., 4,677,740, Cl. 29-576.00B.
- nsucker, William A. Roll restraint of anchored vessel. 4,681,059, 7-21-87, Cl. 114-293.000.
- nt, Alexander, III; and Smith, Dennis E., to AMP Incorporated. Means for retaining terminals in a connector. 4,655,525, 4-7-87, Cl. 339-63.00M.
- nt, Ann H.; Molloy, R. Michael; Nagarajan, Ramakrishnan; and Schabel, Amelia A., to Eli Lilly and Company. Glycopeptide derivatives. 4,639,433, 1-27-87, Cl. 514-8.000.
- nt, Barbara A., executrix: *See—*
  - Hunt, Charles d'A., deceased, 4,690,875, Cl. 428-577.000.
- nt, Barry E.; Herro, Harvey M.; Lee, Kyu-Hwa; and Mindick, Morris, to Nalco Chemical Company. Method for in situ corrosion detection using electrochemically active compounds. 4,683,035, 7-28-87, Cl. 204-1.00T.
- nt, Carl E., to GTE Valeron Corporation. Coolant supply extension member in rotating cutting tool. 4,636,118, 1-13-87, Cl. 409-136.000.
- nt, Carl E., to GTE Valeron Corporation. Coolant supply in rotating cutting tool. 4,668,135, 5-26-87, Cl. 409-136.000.
- nt, Carl E.: *See—*
  - Plutschuck, Lawrence; and Hunt, Carl E., 4,708,543, Cl. 408-151.000.
- nt, Charles D'A., to Degussa Electronics Inc. Ingot produced by a continuous casting method. 4,681,787, 7-21-87, Cl. 428-577.000.
- nt, Charles d'A., deceased (by Hunt, Barbara A., executrix), to Degussa Electronics Inc., Materials Division. High vacuum cast ingots. 4,690,875, 9-1-87, Cl. 428-577.000.
- nt, Christopher C.; and Strait, Paul M., to Climax Manufacturing Company. Portable lathe device. 4,656,898, 4-14-87, Cl. 82-4.00R.
- nt, Christopher J.: *See—*
  - Everett, Geoffrey J.; and Hunt, Christopher J., 4,708,121, Cl. 123-643.000.
- nt, David: *See—*
  - Caplin, Roger W. G.; Southern, Roderic G.; Fry, Gerald L.; and Hunt, David, 4,644,450, Cl. 362-147.000.
- nt, David G.: *See—*
  - Green, John G.; and Hunt, David G., 4,639,472, Cl. 522-107.000.
- nt, Elton B., Jr.: *See—*
  - Gash, Bruce W.; Arri, Luis E.; Hunt, Elton B., Jr.; and Parrish, David R., 4,648,450, Cl. 166-259.000.
- nt, Eugene V.; Mosley, Charles G.; and Wheatley, Charles E., III, to Rockwell International Corporation. Controlled oscillator having random variable frequency. 4,684,903, 8-4-87, Cl. 331-78.000.
- nt, Eugene V.: *See—*
  - Wheatley, Charles E., III; Mosley, Charles G.; and Hunt, Eugene V., 4,646,032, Cl. 331-78.000.
- nt, Gary D.; and Gilles, Helmut, to Alessi Industries, Inc. Motion control apparatus for precise repeatable positioning. 4,673,261, 6-16-87, Cl. 350-531.000.
- nt, Harold R.: *See—*
  - Wegner, Eugene H.; and Hunt, Harold R., 4,670,397, Cl. 435-289.000.
- nt, Ian A.: *See—*
  - Hough, Gerald W.; and Hunt, Ian A., 4,642,867, Cl. 29-423.000.
- nt, James A.: *See—*
  - Pensky, Arnold H.; and Hunt, James A., 4,635,548, Cl. 101-319.000.
- nt, James L.: *See—*
  - Mitchell, Robert N.; and Hunt, James L., 4,648,761, Cl. 29-558.000.
- nt, John. Water skis and the like. 4,710,144, 12-1-87, Cl. 441-79.000.
- nt, John F.: *See—*
  - Setterholm, Vance C.; and Hunt, John F., 4,702,870, Cl. 264-87.000.
- nt, John M.: *See—*
  - Carr, R. Stephen; Dalzell, Julius N.; Holmes, J. Fred; and Hunt, John M., 4,644,320, Cl. 340-310.00A.
- nt Leuchars and Hepburn Limited: *See—*
  - Thom, Michael J., 4,712,947, Cl. 405-288.000.
- nt, Mack W.; and Kennedy, Steven, to Amoco Corporation. Metal-containing lubricant compositions. 4,664,822, 5-12-87, Cl. 252-32.70E.
- nt, Noel; and Secretan, Michael J. F., to Ansec Design and Engineering Limited. Means for securing cutting or breaker elements to a rotatable member. 4,688,731, 8-25-87, Cl. 241-191.000.
- nt, Oliver L.: *See—*
  - Dreibelbis, Richard L.; and Hunt, Oliver L., 4,679,998, Cl. 425-72.00S.
- nt, Patrick T. Mailbox. 4,650,113, 3-17-87, Cl. 232-17.000.
- nt, Patrick T. Cold weather breathing mask. 4,671,268, 6-9-87, Cl. 128-201.130.
- nt, Paul D.: *See—*
  - Rice, Mark S.; and Hunt, Paul D., 4,681,054, Cl. 114-124.000.
- nt, Robert D.: *See—*
  - Neumann, David B.; and Hunt, Robert D., 4,638,591, Cl. 43-89.000.
- Hunt, Robert E.: *See—*
  - Szabo, Anthony W.; and Hunt, Robert E., 4,676,122, Cl. 74-625.000.
- Hunt, Robert H.; and Klappert, Willi, to General Electric Company. Core and winding assembly with relieved core edges and method of manufacture thereof. 4,646,048, 2-24-87, Cl. 336-213.000.
- Hunt, Ronald E., to International Business Machines Corporation. Sheet feed apparatus with fixed separator protrusions. 4,687,192, 8-18-87, Cl. 271-119.000.
- Hunt, Ronald E.: *See—*
  - Burkhead, Herbert A.; and Hunt, Ronald E., 4,707,155, Cl. 400-199.000.
  - Habich, Adolph B.; and Hunt, Ronald E., 4,635,919, Cl. 271-22.000.
  - Habich, Adolph B.; and Hunt, Ronald E., 4,640,502, Cl. 271-4.000.
- Hunt, Ronnie D.: *See—*
  - Sheets, Donald L.; Hoover, Sherwood A.; Hunt, Ronnie D.; and Burgers, Henri T., 4,655,530, Cl. 339-126.00R.
- Hunt, Russell G.: *See—*
  - West, Peter J.; Hunt, Russell G.; and Gates, Duncan A., 4,692,457, Cl. 514-361.000.
- Hunt, Stanley E. Laser energy transducer. 4,644,169, 2-17-87, Cl. 250-432.00R.
- Hunt, Terrance, to Cecon International NV. Block. 4,671,039, 6-9-87, Cl. 52-593.000.
- Hunt, Thomas K.: *See—*
  - Novak, Robert F.; Schmatz, Duane J.; and Hunt, Thomas K., 4,714,798, Cl. 136-239.000.
- Hun., Warren H., Jr.; Sawtell, Ralph R.; and Bretz, Philip E., to Aluminum Company of America. Aluminum-lithium alloys and method. 4,648,913, 3-10-87, Cl. 148-12.70A.
- Hunt, William R.: *See—*
  - McFadden, Russell T.; Grilli, David A.; and Hunt, William R., 4,670,512, Cl. 525-223.000.
- Hunter, Andrew F., to Conoco Inc. Personnel evacuation apparatus for an offshore platform. 4,660,677, 4-28-87, Cl. 182-10.000.
- Hunter, Andrew F.: *See—*
  - White, Charles N.; and Hunter, Andrew F., 4,669,916, Cl. 405-224.000.
- Hunter Associates Laboratory, Inc.: *See—*
  - Venable, William H., 4,711,580, Cl. 356-406.000.
- Hunter Automated Machinery Corporation: *See—*
  - Hunter, William A., 4,657,064, Cl. 164-169.000.
  - Hunter, William A., 4,671,339, Cl. 164-182.000.
  - Hunter, William A., 4,699,199, Cl. 164-180.000.
- Hunter, Benjamin A.; and Gilbert, Everett E., to United States of America, Army. Destruction of waste explosive by hydrogenolysis. 4,661,179, 4-28-87, Cl. 149-124.000.
- Hunter, Brook L.; Rizzie, Joseph W.; and Ward, Marvin L., to Technology for Energy Corporation. Electrical connector. 4,712,847, 12-15-87, Cl. 439-155.000.
- Hunter, Byron A.; Rowland, Donald G.; and Peascoe, Warren J., to Uniroyal Chemical Company, Inc. Nitro-urea based blowing agents. 4,634,721, 1-6-87, Cl. 521-92.000.
- Hunter, Byron A.: *See—*
  - Rowland, Donald G.; Hunter, Byron A.; and Hansen, Lee D., 4,655,962, Cl. 252-350.000.
  - Rowland, Donald G.; Hunter, Byron A.; and Hansen, Lee D., 4,692,475, Cl. 521-92.000.
- Hunter, Clifford R.: *See—*
  - Wenham, Bruce T.; Cook, Raymond; and Hunter, Clifford R., 4,712,339, Cl. 52-173.0PS.
- Hunter Company, Inc., The: *See—*
  - Holtzclaw, James O., Jr.; and Novotny, Marvin A., 4,696,419, Cl. 224-243.000.
- Hunter Douglas, Inc.: *See—*
  - Anderson, Richard N., 4,633,635, Cl. 52-489.000.
  - Anderson, Richard N., 4,646,808, Cl. 160-178.00C.
  - Anderson, Richard N., 4,660,612, Cl. 160-173.000.
  - Anderson, Richard N., 4,662,422, Cl. 160-168.00R.
  - Anderson, Richard N., 4,673,600, Cl. 428-12.000.
  - Anderson, Richard N., 4,676,855, Cl. 156-193.000.
  - Anderson, Richard N., 4,677,012, Cl. 428-116.000.
  - Anderson, Richard N., 4,677,013, Cl. 428-116.000.
  - Anderson, Richard N., 4,685,986, Cl. 156-197.000.
  - Anderson, Richard N., 4,687,041, Cl. 160-168.00R.
  - Anderson, Richard N., 4,697,629, Cl. 160-177.000.
  - Anderson, Richard N., 4,702,296, Cl. 160-107.000.
  - Schnebly, John T.; Steele, Richard S.; and Colson, Wendell B., 4,647,488, Cl. 428-116.000.
  - Sennebly, John T.; Steele, Richard S.; and Colson, Wendell B. 4,675,060, Cl. 156-65.000.
- Hunter Douglas International N.V.: *See—*
  - Brugman, Johannes A., 4,658,562, Cl. 52-665.000.
  - Brugman, Johannes A., 4,665,674, Cl. 52-488.000.
  - Oskam, Herman, 4,648,436, Cl. 160-168.00R.
  - Rijnders, Willem, 4,671,041, Cl. 52-762.000.
  - Rijnders, Willem, 4,706,433, Cl. 52-473.000.
  - Spangenberg, Robbert E., 4,667,723, Cl. 160-178.00C.
  - Spangenberg, Robbert E., 4,685,502, Cl. 160-107.000.
- Hunter, Douglas L.; and Moore, Stanley E., to Dow Chemical Company, The. Poisoning of resin supported catalyst. 4,642,395, 2-10-87, Cl. 568-883.000.
- Hunter, Douglas L.; Moore, Stanley E.; and Willis, Gordon G., to Dow Chemical Company, The. Metal leach control from processes with polymer-supported catalysts. 4,647,708, 3-3-87, Cl. 568-883.000.

- Hunter, Douglas L., to Dow Chemical Company, The. Tertiary amine resins and use thereof. 4,684,667, 8-4-87, Cl. 521-32.000.
- Hunter, Douglas L.: *See—*
  - Hefner, Robert E., Jr.; and Hunter, Douglas L., 4,640,957, Cl. 525-44.000.
- Hunter, Edward H. Boiler tubes of enhanced efficiency and method of producing same. 4,644,907, 2-24-87, Cl. 122-235.00C.
- Hunter, Edwin J.: *See—*
  - Colin, George M.; and Hunter, Edwin J., 4,675,922, Cl. 4-502.000.
- Hunter Engineering (Canada) Ltd.: *See—*
  - Ellison, Kenneth, 4,662,840, Cl. 432-8.000.
  - Ellison, Kenneth, 4,678,433, Cl. 432-59.000.
- Hunter Engineering Company, Inc.: *See—*
  - Flowers, John E.; Romanowski, Christopher A.; and Smith, Dennis M., 4,681,152, Cl. 164-477.000.
  - Smith, Dennis M., 4,641,767, Cl. 222-591.000.
- Hunter, Harry L.: *See—*
  - Gamble, Donald E.; Hunter, Harry L.; and McKinney, Gordon R., 4,687,771, Cl. 514-253.000.
- Hunter, Ian; Mason, Graham; and Scorer, Michael, to GEC Avionics Limited. Tire temperature measurement apparatus. 4,673,298, 6-16-87, Cl. 374-122.000.
- Hunter, James R., to Pfizer Inc. Composite material for induction heating. 4,705,727, 11-10-87, Cl. 428-653.000.
- Hunter, Jennie C.; Belt, Angela; Sotos, Lynn S.; and Fonda, Michelle E., to Cetus Corporation. Fungal chloroperoxidase method. 4,707,447, 11-17-87, Cl. 435-132.000.
- Hunter, Joe S.: *See—*
  - Ruffin, Paul B.; Anderson, J. Gregory; and Hunter, Joe S., 4,655,410, Cl. 242-158.00R.
- Hunter, John H., to Lumonics Inc. Character imaging system. 4,707,711, 11-17-87, Cl. 346-108.000.
- Hunter, John J. Lined pipe joint. 4,709,946, 12-1-87, Cl. 285-55.000.
- Hunter, Joseph M. Blowout protector. 4,647,005, 3-3-87, Cl. 251-63.000.
- Hunter, Merle D.: *See—*
  - Hawkins, Richard A.; and Hunter, Merle D., 4,694,757, Cl. 110-271.000.
- Hunter, Paul H.: *See—*
  - Gill, Geoffrey Y.; Hunter, Paul H.; and Venlet, Gerard W., 4,642,001, Cl. 408-59.000.
- Hunter, Paul R.: *See—*
  - Carroll, Arthur B.; Hough, Stewart E.; Hunter, Paul R.; Carstedt, John K.; Shaw, Sam R.; and Garrett, James E., 4,684,801, Cl. 250-221.000.
- Hunter, Phillip J.: *See—*
  - Greaves, Alan J.; and Hunter, Phillip J., 4,686,486, Cl. 330-107.000.
- Hunter, Richard G.: *See—*
  - Clark, Leigh B.; Howell, Larry; and Hunter, Richard G., 4,696,302, Cl. 128-401.000.
- Hunter, Robert D.: *See—*
  - Carroll, Gary T.; and Hunter, Robert D., 4,658,357, Cl. 364-406.000.
- Hunter, Robert F. Animal trap. 4,682,440, 7-28-87, Cl. 43-61.000.
- Hunter, Rudolf A. Device including moveable shaft and magnet for sensing magnetic metal. 4,634,974, 1-6-87, Cl. 324-228.000.
- Hunter, Stanley M.; and Oujiri, Steven I., to Sierracin Corporation. Low temperature laminatable polyurethane. 4,663,417, 5-5-87, Cl. 528-80.000.
- Hunter, Stanley M.; and Oujiri, Steven I., to Sierracin Corporation. Low temperature laminatable polyurethane. 4,666,758, 5-19-87, Cl. 428-212.000.
- Hunter, Thomas: *See—*
  - Shimirak, Gerlad L.; Hunter, Thomas; Story, Martha F.; Halstead, W. G.; Chan, Paul S.; and Swinmurn, Christopher J., 4,701,574, Cl. 174-93.000.
- Hunter, Victor L.; and Fisher, Alan D., to Clarewood Pty. Ltd. Crop fingers for harvesters. 4,702,064, 10-27-87, Cl. 56-312.000.
- Hunter, Wayne W. Device for holding construction materials. 4,695,028, 9-22-87, Cl. 248-354.100.
- Hunter, William A., to Hunter Automated Machinery Corporation. Adjustable guide slippers for matchplate molding machine. 4,657,064, 4-14-87, Cl. 164-169.000.
- Hunter, William A., to Hunter Automated Machinery Corporation. Mold locking device for automatic mold making machine. 4,671,339, 6-9-87, Cl. 164-182.000.
- Hunter, William A., to Hunter Automated Machinery Corporation. Automated mold making system. 4,699,199, 10-13-87, Cl. 164-180.000.
- Hunter, William H.: *See—*
  - Ross, Frank E.; and Hunter, William H., 4,641,006, Cl. 219-10.55F.
- Hunter, Wood E.; and Craun, Gary P., to Calgon Corporation. Process for the manufacture of high solids, free-flowing, granular poly(dimethyldiallyl ammonium chloride). 4,654,378, 3-31-87, Cl. 522-3.000.
- Hunter, Wood E.; and Craun, Gary P., to Calgon Corporation. Method for producing free-flowing water-soluble polymer gels. 4,666,964, 5-19-87, Cl. 524-106.000.
- Hunting, Curtis J.: *See—*
  - Thompson, John R.; Hunting, Curtis J.; Masson, Ronald K.; and Trivelpiece, Craig E., 4,716,588, Cl. 380-20.000.
- Hunting Oilfield Services (UK) Limited: *See—*
  - Dearden, Geoffrey C.; Speare, Edward J.; Ueno, Katsuo; and Jones, Donald N., 4,673,201, Cl. 285-333.000.
- Hunting, Ronald M., to Aeroquip Corporation. Contractible coupling. 4,708,377, 11-24-87, Cl. 285-407.000.
- Huntington Alloys Inc.: *See—*
  - Smith, John S.; and Smith, Darrell F., Jr., 4,685,978, Cl. 148-142.000.
- Huntington, Dorothy A.: *See—*
  - Henrickson, Larry K.; and Huntington, Dorothy A., 4,661,9 Cl. 381-31.000.
- Huntington Laboratories, Inc.: *See—*
  - Hobbs, Richard E.; and Hanning, John H., 4,651,90 Cl. 222-153.000.
- Huntington Mechanical Laboratories, Inc.: *See—*
  - Balter, Valentin, 4,683,763, Cl. 74-18.100.
- Huntington, Robert C., to Motorola Inc. CMOS voltage translator. 4,675,557, 6-23-87, Cl. 307-475.000.
- Huntjens, Joseph M. J. E.; Kockelmans, Henricus G. J. M.; and Pe Jozef J. A., to Oce-Nederland B.V. Method and apparatus for determining when a layer of tacky material present on a cleaning member needs to be rejuvenated. 4,705,388, 11-10-87, Cl. 355-15.000.
- Huntjens, Jozef H. G., to MacIntosh N.V. Support for aiding proprioceptive innervation. 4,702,234, 10-27-87, Cl. 128-77.000.
- Huntley, Allan R., to Stone & Webster Engineering Limited. Submersible liquid/gas separator apparatus. 4,661,127, 4-28-87, Cl. 55-174.0
- Huntley, Bruce L.: *See—*
  - Woyski, William B.; Huntley, Bruce L.; and Tauscher, Robert C., 4,635,764, Cl. 188-268.000.
- Huntley, David A.: *See—*
  - Layman, Frederick P.; Huntley, David A.; Dick, Paul H.; Cra George L.; Kuhlman, Michael J.; Vecta, Roger M.; and Hobson, Phillip M., 4,705,951, Cl. 250-442.100.
- Huntley, William P., to United States of America, Navy. Portable radar simulator with adjustable side lobe generator. 4,694,299, 9-15-87, Cl. 342-170.000.
- Hunts, Rick E. Hair clipper. 4,679,322, 7-14-87, Cl. 30-133.000.
- Huntzinger, Mark E.: *See—*
  - Backof, Charles A., Jr.; and Huntzinger, Mark E., 4,646,3 Cl. 375-39.000.
- Huntzinger, Mark H. Spoked wheel cover. 4,660,89 4-28 Cl. 301-37.0SA.
- Hunyady, Janos L.: *See—*
  - Cooper, David H.; Toyota, Makoto; and Hunyady, Janos L., 4,667,229, Cl. 358-98.000.
  - Cooper, David H.; and Hunyady, Janos L., 4,677,47 Cl. 358-98.000.
- Hunziker, Bruno: *See—*
  - Davatz, Kaspar; Hilpert, Bruno; and Hunziker, Bruno, 4,667,1 Cl. 251-315.000.
  - Hilpert, Bruno; and Hunziker, Bruno, 4,647,003, Cl. 251-14
- Hunziker, Robert V.: *See—*
  - Elizondo, H. J.; Hunziker, Robert V.; Nelson, Phillip S.; and Risinger, Michael T., 4,663,040, Cl. 210-402.000.
- Huot Mfg. Co.: *See—*
  - Peterson, Seymour A.; and Huot, Peter G., 4,660,7 Cl. 206-379.000.
- Huot, Peter G.: *See—*
  - Peterson, Seymour A.; and Huot, Peter G., 4,660,7 Cl. 206-379.000.
- Hupee, Robert. Faucet valve. 4,653,722, 3-31-87, Cl. 251-260.000.
- Huperz, Adalbert, to Woma-Apparatebau Wolfgang Maasberg & Co. GmbH. Valve head for high-pressure pumps. 4,634,353, 1-6-87, Cl. 417-564.000.
- Hupf, Charles J., to Regal Ware, Inc. Stiffening spring hose clamp. 4,697,501, 10-6-87, Cl. 99-279.000.
- Hupfer, Bruce A.; and Hubert, James F., to W. H. Brady Co. High performance printable coatings for identification devices. 4,686 8-11-87, Cl. 428-421.000.
- Hupfer, Leopold; Merger, Franz; Broecker, Franz J.; and Fischer, Rol to BASF Aktiengesellschaft. Preparation of 2-methyl-2-alkenals. 4,677,230, 6-30-87, Cl. 568-450.000.
- Hupfer, Leopold: *See—*
  - Graf, Fritz; and Hupfer, Leopold, 4,698,434, Cl. 548-342.000.
- Hupfer, Ronald K., to Whirlpool Corporation. Heat exchanger tube retainer for a refrigerator condenser. 4,709,556, 12-1-87, Cl. 62-298.000.
- Hupka, Gyorgy: *See—*
  - Nagy, Zoltan; Hupka, Gyorgy; Szalay, Otto; and Kovacs, Attila, 4,681,531, Cl. 431-181.000.
- Huppertsberg, Frank, to Gebr. Wahlefeld GmbH & Co. KG. Suspension harness. 4,712,513, 12-15-87, Cl. 119-96.000.
- Huppi, Glenn S.: *See—*
  - Wright, Wade S.; Voisine, John T.; and Huppi, Glenn S., 4,677,5 Cl. 364-562.000.
- Huppmann, Winfried, to Sintermetallwerk Krebsoege GmgH. Sintered metal body with at least one toothing. 4,708,912, 11-24-87, Cl. 428-547.000.
- Hurchalla, James: *See—*
  - Chalaire, Donald K.; Hoyt, Halfen L.; and Hurchalla, James, 4,669,893, Cl. 384-99.000.
- Hurd, Frank W., deceased; by Hurd, Susan M., executor, and by Hurd, Harland C., executor. Metal or alloy forming reduction process and apparatus. 4,687,632, 8-18-87, Cl. 419-45.000.
- Hurd, Harland C., executor: *See—*
  - Hurd, Frank W., deceased; Hurd, Susan M., executor; and Hurd, Harland C., executor, 4,687,632, Cl. 419-45.000.
- Hurd, James. Debris collector and cooler. 4,671,708, 6-9-87, Cl. 406-108.000.
- Hurd, Richard R., to Mountain West Marble & Onyx, Inc. Process for forming simulated ornamental stone and product thereof. 4,664,9 5-12-87, Cl. 428-15.000.
- Hurd, Stanley M. Isoelectric focusing device and process. 4,670 6-2-87, Cl. 204-183.200.

- urd, Susan M., executor: *See*—
  - Hurd, Frank W., deceased; Hurd, Susan M., executor; and Hurd, Harland C., executor, 4,687,632, Cl. 419-45.000.
- urditch, Rodney J.: *See*—
  - Kwak, Won S.; and Hurditch, Rodney J., 4,637,698, Cl. 351-163.000.
- uret et ses Fils: *See*—
  - Cuvelier, Antoine L., and Boucher, Guy M. G., 4,638,448, Cl. 364-565.000.
- uret, Noel; and Meunier, Jean, to Aluminium Pechiney. Engine liners having a base of aluminum alloys and of silicon grains graded in size and processes for obtaining them. 4,650,644, 3-17-87, Cl. 419-11.000.
- urford, Duane: *See*—
  - McGarrity, George V., Foster, David C., and Hurford, Duane, 4,669,503, Cl. 137-625.410.
- urka, Wilhelm: *See*—
  - Hopfgartner, Johann; Hurka, Wilhelm; Grablowitz, Otto; and Kropp, Wolfgang, 4,652,442, Cl. 514-420.000.
- urkmans, Antonius: *See*—
  - van Elten, Gerrit J., Hurkmans, Antonius; and de Vries, Hugo V., 4,712,964, Cl. 414-281.000.
- urlburt, Joseph C., to New Holland Inc. Access door for harvester operator's cab. 4,652,043, 3-24-87, Cl. 296-190.000.
- urlbut, Donovan W.: *See*—
  - Ackerman, Richard; Hurlbut, Donovan W.; and Jewer, Alan A., 4,692,913, Cl. 369-44.000.
- urlbut, Kyle: *See*—
  - Sutton, Jimmy; Shearer, Wanda; Arkin, Karlie J.; Spoelstra, Jeffrey A.; Weiss, Steven M.; Ramsey, Sherry L.; Hurlbut, Kyle; Culbertson, W. Bruce; and Burns, Robert R., 4,649,499, Cl. 364-518.000.
- urlebaus, Heinz A., and Muller, Werner, to August Krempel Sohne GmbH & Co. KG. Arrangement for shaping hosiery articles. 4,674,663, 6-23-87, Cl. 223-1.000.
- urlemann, Ernst; Bosshard, Werner; and Stauffacher, Werner, to Werkzeugmaschinenfabrik Oerlikon-Buhrle AG. Apparatus for ejection of empty cartridge cases from an automatic firing weapon. 4,676,017, 6-30-87, Cl. 42-25.000.
- urlen, Jan: *See*—
  - Naterstad, Tormod; Bergli, Knut; and Hurlen, Jan, 4,659,442, Cl. 204-67.000.
- urley, Clive: *See*—
  - Beesley, Brian G.; Hurley, Clive; Brend, Ramon H. J.; Edwards, Thomas P.; Sherrell, Robert W. D.; and Vickery, Andrew J., 4,677,909, Cl. 100-229.000.
- urley, James R., to Cooper Industries, Inc. Measuring circuit and method for power distribution equipment. 4,642,564, 2-10-87, Cl. 324-132.000.
- urley, James R.; Panora, Robert A.; Searight, Edward F., and Shukla, Kailash C., to Thermo Electron Corporation. High efficiency deep fat fryer. 4,668,390, 5-26-87, Cl. 210-167.000.
- urley, James R.; Birkner, Joseph R., and Nunes, Maurice, to Thermo Electron Corporation. Direct-firing gas convection oven. 4,671,250, 6-9-87, Cl. 126-21.00A.
- urley, John L.; Puzis, Joseph D.; and Tingey, Rosa F., to Pall Corporation. Porous fibrous fluorocarbon structures. 4,716,074, 12-29-87, Cl. 428-220.000.
- urley, Nancy J.: *See*—
  - Sias, Ralph M.; Hurley, Nancy J.; and Dalebout, Melvin W., 4,673,605, Cl. 428-120.000.
- urley, Terence R.: *See*—
  - Morcom, Richard; and Hurley, Terence R., 4,700,345, Cl. 370-118.000.
- urley, Timothy R.: *See*—
  - Bunge, Richard H.; French, James C.; Hurley, Timothy R.; and Willmer, Neil E., 4,696,794, Cl. 424-118.000.
  - Hokanson, Gerard C.; Bunge, Richard H.; Hurley, Timothy R.; and French, James C., 4,680,416, Cl. 549-292.000.
- urlimann, Paul. Apparatus for throwing objects. 4,664,094, 5-12-87, Cl. 124-54.000.
- urlock, John R.: *See*—
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  - Bukoschek, Romuald L.; and Huszar, Reinhard, 4,696,166, Cl. 62-136.000.
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  - Cook, Wayne L.; and Huth, Robert P., 4,675,389, Cl. 534-883.000.
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- Huthmacher, Klaus: *See—*
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- Huthwohl, Georg: *See—*
  - Pischinger, Franz; Lepperhoff, Gerhard; and Huthwohl, Georg, 4,709,547, Cl. 60-274.000.
- Hutmacher, Hans-Martin: *See—*
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- Hutschenreuther AG: *See—*
  - Buhler, Eugen; Strobel, Klaus; and Schwarzmeier, Karl, 4,704,082, Cl. 425-405.00H.
- Hutson, Duane. Fishing float. 4,644,681, 2-24-87, Cl. 43-44.910.
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- Huttenes-Albertus Chemische Werke GmbH: *See—*
  - Torbus, Marek, 4,678,816, Cl. 523-142.000.
- Huttenrauch, Gerd; Jann, Wolfango; and Kranvogel, Feliks, to Siemens Aktiengesellschaft. Radiodiagnostic apparatus with semitransparent diaphragm. 4,672,652, 6-9-87, Cl. 378-152.000.
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- Hutter, Gerhard P. Wall anchor or support. 4,633,640, 1-6-87, Cl. 52-704.000.
- Hutter, Harold G., and Tarrant, Dennis E., to Allied Corporation. Shielded connector for shielded coaxial individual conductors of flat ribbon cable. 4,662,693, 5-5-87, Cl. 339-177.00R.
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- Hutter, Harold G., to Allied Corporation. One-piece crimp-type connector and method for terminating a coaxial cable. 4,684,201, 8-4-87, Cl. 439-585.000.
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  - Fleck, Harald; Hutter, Heinrich; and Jager, Heimo, 4,654,730, Cl. 360-96.500.
  - Huber, Alois; and Hutter, Heinrich, 4,669,686, Cl. 242-204.000.
- Hutter, Karl; and Wagner, Jacob, to Hommelwerke GmbH. Eccentricity measuring apparatus. 4,651,438, 3-24-87, Cl. 33-550.000.
- Hutter, Odo; and Jung, Rainer, to Robert Bosch GmbH. Vibrating conveyor with vibration isolation. 4,684,010, 8-4-87, Cl. 198-765.000.
- Hutter, Romuald J. Safety latch for doors and similar structures. 4,684,159, 8-4-87, Cl. 292-268.000.
- Hutter, Wayne R.: *See—*
  - Dighton, Gaylon L.; and Hutter, Wayne R., 4,688,370, Cl. 53-469.000.
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Huttner, Klaus, to SKF GmbH. Cage for roller bearing. 4,710,039, 12-1-87, Cl. 384-574.000.

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Hutton, Deanice B.: *See—*

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Percec, Virgil; Huvard, Gary S.; Ramp, Floyd L.; and Traynor, Lee, 4,663,402, Cl. 525-534.000.

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Hanser, Paul E.; and Van Roekel, Leroy A., 4,655,269, Cl. 14 193.00A.

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  - Hayakawa, Futomi; and Onoda, Kazuo, 4,650,950, Cl. 219-85.0BA.
- Hy-C Company, Inc.: *See*—
  - Hisey, Durward A., 4,697,500, Cl. 98-67.000.
- Hy-Con Products, Inc.: *See*—
  - Young, William L., 4,712,674, Cl. 206-328.000.
- Hy-Lite Mfg. Co., Inc.: *See*—
  - Spellman, Francis T., Jr., 4,640,662, Cl. 414-642.000.
- Hy-Meg Corporation: *See*—
  - Pedersen, David; and Cupidro, Vincent N., 4,697,535, Cl. 29-620.000.
- Hy-Tek Systems, Inc.: *See*—
  - Niven, Robert W., 4,672,175, Cl. 219-130.400.
- Hyakutake, Nobuo: *See*—
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  - Smith, Francis E.; Hyatt, Robert L.; and Kline, Leonard J., Jr., 4,698,534, Cl. 310-89.000.
- Hyatt, Wayne E.: *See*—
  - Hansen, Terris L.; Hyatt, Wayne E.; and Leung, Wu-Hon F., 4,695,977, Cl. 364-900.000.
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  - Gray, Reed A.; and Hyazk, Daniel L., 4,648,894, Cl. 71-87.000.
- Hycner, Stanley H.: *See*—
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  - Janka, John C.; Schora, Frank C.; and Knowlton, Ted M., 4,701,266, Cl. 210-803.000.
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  - Picker, Donald H.; and Hydes, Paul C., 4,681,091, Cl. 128-1.00R.
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  - Ornstein, Jacob L.; and Hydock, Michael A., 4,645,129, Cl. 228-190.000.
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  - Carpenter, Willis M., 4,711,428, Cl. 254-423.000.
- Hydra-Tech, Inc.: *See*—
  - Capers, Jerry W.; Capers, Donald L.; and Capers, Douglas W., 4,678,392, Cl. 414-563.000.
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  - Simms, Graham A., 4,659,065, Cl. 254-29.00A.
- Hydracine Fluid Power Limited: *See*—
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- Hydrafit, Inc.: *See*—
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- Hydrel AG: *See*—
  - Maurer, Martin, 4,633,744, Cl. 83-128.000.
- Hydril Company: *See*—
  - Blose, Thomas L.; Chelette, K. Darrel; Ortloff, Donald J.; and Reeves, Doyle E., 4,662,659, Cl. 285-334.000.
  - Breach, William D.; and Vaclavik, Edwin W., 4,684,687, Cl. 524-291.000.
  - Burton, James A., 4,668,126, Cl. 405-169.000.
  - Burton, James A., 4,679,800, Cl. 277-34.000.
  - Crutchfield, Mark K., 4,647,002, Cl. 251-1.300.
  - Goodhart, Milton E., 4,646,836, Cl. 166-303.000.
  - Hynes, Joseph H.; and Burton, James A., 4,657,263, Cl. 277-31.000.
  - Maidlow, Delbert K., 4,654,950, Cl. 29-428.000.
  - McDonald, Patrick E., 4,676,529, Cl. 285-92.000.
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  - Peterman, Charles P.; and Keithahn, Julian D., 4,635,676, Cl. 137-551.000.
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  - Weston, Harry, 4,681,133, Cl. 137-315.000.
  - Weston, Harry, 4,703,897, Cl. 166-373.000.
  - Woods, Allan O., 4,646,083, Cl. 340-856.000.
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  - Kime, James A., 4,707,993, Cl. 60-372.000.
- Hydro Mecanique Research S.A.: *See*—
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  - Kross, Robert D., 4,649,046, Cl. 424-76.000.
  - Williams, Philip L., 4,664,847, Cl. 252-522.00A.
- Hydro-Pulse, Inc.: *See*—
  - Wiseman, Michael D., 4,676,264, Cl. 137-119.000.
  - Wiseman, Michael D., 4,711,272, Cl. 137-887.000.
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  - Auger, Jean; and Laflamme, Donald, 4,703,482, Cl. 371-16.000.
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  - Cloutier, Marius; Bourgeois, Jean-Marc; and Lalonde, Francois, 4,675,664, Cl. 340-685.000.
  - Drouet, Michel G.; and Munz, Richard J., 4,652,289, Cl. 65-27.000.
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  - Lalancette, Jean-Marc; and Belanger, Germain, 4,639,309, Cl. 208-262.000.
  - Lalonde, Francois; Bourgeois, Jean-Marc; and Cloutier, Marius, 4,675,670, Cl. 340-870.370.
  - Morin, Francois, 4,698,584, Cl. 324-62.000.
- Hydro Systems Company: *See*—
  - Bricker, James C.; and Lippman, David H., 4,697,610, Cl. 137-3.000.
- Hydroacoustics Inc.: *See*—
  - Bouyoucos, John V.; and Durfee, David W., 4,663,206, Cl. 428-57.000.
  - Bouyoucos, John V., 4,695,987, Cl. 367-143.000.
- Hydrocarbon Research, Inc.: *See*—
  - Li, Allen S.; Eccles, Richard M.; and Ruel, Lloyd M., 4,673,552, Cl. 422-140.000.
- Hydrochem Developments Ltd.: *See*—
  - Schneider, John C., 4,670,051, Cl. 75-101.00R.
- Hydroconic Limited: *See*—
  - Corlett, Ewan C. B., 4,681,830, Cl. 114-163.000.
- Hydrolux S.a.r.l.: *See*—
  - Schwelm, Hans, 4,662,600, Cl. 251-30.030.
  - Schwelm, Hans, 4,711,267, Cl. 137-596.150.
- Hydromer, Inc.: *See*—
  - Creasy, Walter S.; Lorenz, Donald H.; LaCasse, Robert G.; and Malagreca, Salvatore A., 4,642,267, Cl. 428-413.000.
- Hydronautics, Incorporated: *See*—
  - Johnson, Virgil E., Jr., 4,681,264, Cl. 239-589.100.
- Hydrotechnik GmbH: *See*—
  - Hoffmann, Hellmuth, 4,703,914, Cl. 251-120.000.
  - Hoffmann, Helmuth, 4,694,681, Cl. 73-3.000.
  - Leverberg, Siegfried; and Hofmann, Manfred, 4,638,668, Cl. 73-866.500.
- Hydrotherm Geraethebau GmbH: *See*—
  - Metz, Peter, 4,644,904, Cl. 122-13.00R.
- Hydrotile Machinery Company: *See*—
  - Adly, Tarek A., 4,639,342, Cl. 264-40.100.
  - Haddy, Michael L., 4,690,631, Cl. 425-262.000.
- Hydrotreat, Inc.: *See*—
  - Arnaud, Johnny, 4,686,038, Cl. 210-232.000.
- Hydrovane Compressor Company Limited, The: *See*—
  - Boller, Edward, 4,642,033, Cl. 417-295.000.
  - Williams, Michael R., 4,648,815, Cl. 418-84.000.
- Hydrowatt Systems Ltd.: *See*—
  - Frey, Bernhard, 4,685,382, Cl. 92-86.500.
- Hydrowatt Systems Limited: *See*—
  - Frey, Bernhard, 4,671,743, Cl. 417-205.000.
- Hydrowega Consulting BV: *See*—
  - Koot, Bastiaan C. M., 4,658,751, Cl. 114-270.000.
- Hyduck, Steven J. Pick for stringed instruments. 4,711,150, 12-8-87, Cl. 84-322.000.

- Hygienics Industries, Inc.: *See—*
  - Brier, Michael I., 4,664,663, Cl. 604-387.000.
- Hyink, Barbara. Method of producing a mosaic expression on fabric. 4,675,023, 6-23-87, Cl. 8-447.000.
- Hykes, Robert C.: *See—*
  - DeBoer, William M.; DeBoer, Stanley E., Jr.; and Hykes, Robert C., 4,705,269, Cl. 272-73.000.
- Hyland, James F., Jr., to United Technologies Corporation. Dynamic balance tester. 4,688,427, 8-25-87, Cl. 73-460.000.
- Hylarides, Mark D.; and Mettler, Fred A., Jr., to University of New Mexico, The. Synthesis of 1-haloestradiols. 4,676,932, 6-30-87, Cl. 260-397.500.
- Hyldal, Jorgen, to Danfoss A/S. Motor-compressor unit with offset starting torque. 4,656,376, 4-7-87, Cl. 310-41.000.
- Hyll, John, to Baker International Corporation. Vane cone assembly for use in making centrifugal elastomeric coated impellers. 4,706,928, 11-17-87, Cl. 249-184.000.
- Hylsa, S.A.: *See—*
  - Grageda, Ignacio J., 4,637,034, Cl. 373-76.000.
  - Price-Falcon, J. Federico, 4,674,534, Cl. 137-613.000.
  - Vera, Enrique R. M.; and Becerra-Novoa, Jorge O., 4,668,284, Cl. 75-35.000.
  - Villarreal-Trevino, Juan A., 4,714,597, Cl. 423-228.000.
- Hyltoft, Hans C. Electrophotographic information printer with automatical duplex sheet printing. 4,699,503, 10-13-87, Cl. 355-14.0SH.
- Hylton, Douglas W. Bridge crane control unit. 4,635,802, 1-13-87, Cl. 212-160.000.
- Hylton, Thomas A.: *See—*
  - Tiffany, Burris D.; Nichols, Steve; Meulman, Paul A.; Hylton, Thomas A.; and Lipton, Michael F., 4,684,725, Cl. 540-565.000.
- Hymac Ltd.: *See—*
  - Rowland, Stephen A., 4,700,900, Cl. 241-37.000.
- Hyman, Edward S. Method for detecting bacteria in urine and for treating rheumatoid arthritis, essential hypertension and other diseases associated with bacteriuria. 4,673,637, 6-16-87, Cl. 435-34.000.
- Hymes, Alan C.; Ong, Lincoln T.; and Persons, Garry R., to Lec Tec Corporation. Drug dispensing device for transdermal delivery of medicaments. 4,675,009, 6-23-87, Cl. 604-304.000.
- Hymes, Linda E.: *See—*
  - Ley, Carl, 4,669,643, Cl. 224-257.000.
- Hymmen, Karl, to Velo Bind, Inc. Hand tool for bending and straightening studs of bookbinding strips. 4,656,716, 4-14-87, Cl. 29-270.000.
- Hymmen, Karl, to Velo Bind, Inc. Paper punch. 4,656,907, 4-14-87, Cl. 83-571.000.
- Hymmen, Karl: *See—*
  - Abildgaard, William H.; and Hymmen, Karl, 4,708,560, Cl. 412-7.000.
- Hynd, Nicholas A.: *See—*
  - Sugden, David B.; Cass, David T.; Dowden, Peter B.; and Hynd, Nicholas A., 4,646,853, Cl. 175-94.000.
- Hynecek, Jaroslav, to Texas Instruments Incorporated. CCD imager with many dummy pixels. 4,649,430, 3-10-87, Cl. 358-213.000.
- Hynecek, Jaroslav, to Texas Instruments Incorporated. Color CCD imager with minimal clock lines. 4,656,503, 4-7-87, Cl. 358-44.000.
- Hynecek, Jaroslav, to Texas Instruments Incorporated. CCD imager with on-chip processing. 4,660,090, 4-21-87, Cl. 358-213.000.
- Hynecek, Jaroslav, to Texas Instruments Incorporated. CCD imager with JFET peripherals. 4,668,971, 5-26-87, Cl. 357-24.000.
- Hynecek, Jaroslav, to Texas Instruments Incorporated. High well capacity CCD imager. 4,673,963, 6-16-87, Cl. 357-24.000.
- Hynecek, Jaroslav, to Texas Instruments Incorporated. Method and apparatus for using surface trap recombination in solid state imaging devices. 4,679,212, 7-7-87, Cl. 377-58.000.
- Hynecek, Jaroslav, to Texas Instruments Incorporated. Hydrogen iodide etch of tin oxide. 4,708,766, 11-24-87, Cl. 156-643.000.
- Hyner, Jacob; and Gradowski, Steven, to Whyco Chromium Company, Inc. Self drilling fasteners and process for making the same. 4,692,080, 9-8-87, Cl. 411-387.000.
- Hyner, Jacob; and Gradowski, Steven, to Whyco Chromium Company, Inc. Process for making self-drilling fasteners. 4,713,855, 12-22-87, Cl. 10-10.00R.
- Hynes, Joseph H.; and Burton, James A., to Hydril Company. Annular packing unit and insert. 4,657,263, 4-14-87, Cl. 277-31.000.
- Hynes, Joseph H.: *See—*
  - Best, Michael J. A.; Jones, Richard H.; Hynes, Joseph H.; Pond, Richard J.; and Gordon, Colin R., 4,695,190, Cl. 405-169.000.
- Hynes, Martin D., to Eli Lilly and Company. Analgesic method. 4,683,235, 7-28-87, Cl. 514-282.000.
- Hynes, Maurice A. Flexible, resilient saddle for swingjoint. 4,706,999, 11-17-87, Cl. 285-196.000.
- Hynynen, Kullevro: *See—*
  - Watmough, David J.; Mallard, John R.; and Hynynen, Kullevro, 4,646,756, Cl. 128-804.000.
- Hyodo, Akihiko: *See—*
  - Inagaki, Mitukane; Ohta, Masaki; Hyodo, Akihiko; Takenaka, Kenji; Mitibata, Takashi; Suzuki, Shinichi; and Kayukawa, Hiroaki, 4,712,982, Cl. 417-222.000.
- Hyodo, Haruhiro; and Mino, Masayuki, to Minolta Camera Kabushiki Kaisha. Image formation apparatus. 4,674,856, 6-23-87, Cl. 355-1.000.
- Hyodo, Hiroshi; Yamada, Naoki; Iwase, Kenichi; and Kishimoto, Shinichi, to Kabushiki Kaisha Kyoto Daiichi Kagaku. Method of measurement using scattered light. 4,697,925, 10-6-87, Cl. 356-339.000.
- Hyodo, Hitoshi: *See—*
  - Kawata, Shoji; and Hyodo, Hitoshi, 4,646,861, Cl. 180-176.000.
- Hyodo, Keiichiro: *See—*
  - Iida, Kazumi; Ohata, Yosuke; Hyodo, Keiichiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, 4,636,05 Cl. 355-3.00R.
  - Iida, Kazumi; Ohata, Yosuke; Hyodo, Keiichiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, 4,666,28 Cl. 355-3.0DD.
  - Iida, Kazumi; Ohata, Yosuke; Hyodo, Keiichiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, 4,666,28 Cl. 355-8.000.
  - Iida, Kazumi; Ohata, Yosuke; Hyodo, Keiichiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, 4,714,33 Cl. 355-3.0FU.
- Hyodo, Koji: *See—*
  - Oba, Hanji; Hyodo, Koji; Honda, Michiyasu; and Kameyama, Kazuhide, 4,658,882, Cl. 164-417.000.
- Hyodo, Masakatsu; and Yagi, Isaburo, to Ashimori Industry Co., Ltd. Tubular lining material for pipe lines. 4,681,783, 7-21-87, C 428-36.000.
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- Hyodo, Masakatsu: *See—*
  - Ohtsuga, Hisao; Morinaga, Akio; Sakaguchi, Yoichi; Hyodo, Masakatsu; and Yagi, Isaburo, 4,684,556, Cl. 428-36.000.
- Hyodo, Masaya: *See—*
  - Tsunekawa, Masaru; Naito, Yoshihiro; Hyodo, Masaya; and Hayashi, Tatsuya, 4,706,457, Cl. 60-521.000.
- Hyodo, Motoi: *See—*
  - Kazaoka, Kenichi; Okazaki, Hiroshi; and Hyodo, Motoi, 4,666,20 Cl. 297-344.000.
  - Maruyama, Katsuaki; Oishi, Yaichi; Terada, Takami; and Hyodo, Motoi, 4,652,049, Cl. 297-284.000.
- Hyodo, Shoji: *See—*
  - Yagita, Yoshiaki; Okunuki, Yutaka; Ikeda, Toshihide; and Hyodo, Shoji, 4,650,672, Cl. 424-69.000.
- Hyodo, Tohru; and Kakubari, Toru, to Janome Sewing Machine C Ltd. Thread winding safety device of a sewing machine. 4,667,61 5-26-87, Cl. 112-277.000.
- Hyodo, Tohru: *See—*
  - Murakami, Eiji; Sano, Yasuro; and Hyodo, Tohru, 4,677,925, Cl 112-266.100.
- Hyodo, Toru: *See—*
  - Murakami, Eiji; Hyodo, Toru; and Tanaka, Haruhiko, 4,651,66 Cl. 112-458.000.
- Hyodo, Yoichi; and Harata, Mitsuru, to Toyota Jidosha Kabushik Kaisha; and Toyoda Cesei Co., Ltd. Method for forming an energy absorbing coupling for a steering wheel. 4,648,164, 3-10-87, Cl. 159.00B.
- Hyodo, Youichi, to Toyota Jidosha Kabushiki Kaisha. Steering system in wheeled vehicle. 4,648,614, 3-10-87, Cl. 280-91.000.
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- Hyoki, Takuzan; Uchida, Atsushi; and Yamamoto, Yuichi, to Kabushiki Kaisha Komatsu Seisakusho; and Komatsu Zoki, Ltd. Vehicle steering and operating apparatus. 4,706,776, 11-17-87, Cl. 180-334.000.
- Hyon, Suong-Hyu; and Ikada, Yoshito, to Biomaterials Universe, Inc. Porous and transparent poly(vinyl alcohol) gel and method of manufacturing the same. 4,663,358, 5-5-87, Cl. 521-64.000.
- Hyperion Catalysis International, Inc.: *See—*
  - Tennent, Howard G., 4,663,230, Cl. 428-367.000.
- Hyperion, Inc.: *See—*
  - Chen, Bu S., 4,702,393, Cl. 222-1.000.
- Hypres, Inc.: *See—*
  - Hohenwarter, Gert K. G., 4,715,189, Cl. 62-64.000.
- Hyrman, Vaclav. Electro convulsive therapy method. 4,709,70 12-1-87, Cl. 128-421.000.
- Hystar Aerospace Development Corporation: *See—*
  - Warrington, John E.; and Kramer, Dale C., 4,685,640, Cl 244-29.000.
- Hytork Actuators Limited: *See—*
  - Stewart, Duncan R., 4,651,627, Cl. 92-13.700.
- Hyuga, Kounosuke: *See—*
  - Sakabe, Busaburo; Hyuga, Kounosuke; and Araki, Kazuhito, 4,635,402, Cl. 51-74.0BS.
- Hyuga, Takao: *See—*
  - Ohta, Kenji; Takahashi, Akira, Inui, Tetsuya; Hyuga, Takao; and Yamaoka, Hideyoshi, 4,634,617, Cl. 428-65.000.
  - Ohta, Kenji; Takahashi, Akira; Inui, Tetsuya; Hyuga, Takao; and Yamaoka, Hideyoshi, 4,658,393, Cl. 369-290.000.
- Hyuga, Takehiro: *See—*
  - Matsumoto, Kazutoshi; Nakamura, Tetsuro; Hyuga, Takehiro; and Ichimura, Hiroshi, 4,692,421, Cl. 501-136.000.
- Hyun, Choi J.; Chul, Lee J.; and Bum, Choi W., to Daewoo Heavy Industries Ltd. Apparatus for determining reflectivity of an object such as a mirror. 4,691,106, 9-1-87, Cl. 250-349.000.
- Hyun, Hyung-Hwan: *See—*
  - Zeikus, Joseph G.; and Hyun, Hyung-Hwan, 4,647,538, Cl 435-201.000.
- Hyun, Kun S.: *See—*
  - Hall, Mark J.; and Hyun, Kun S., 4,692,508, Cl. 528-503.000.
  - Treptow, Warren L.; Hyun, Kun S.; and Park, Chung P., 4,689,355 Cl. 521-154.000.

- Hyyppa, Juho, to Raikka Oy. High energy composition. 4,642,147, 2-10-87, Cl. 149-19.900.
- Hyzak, Daniel L.: *See—*
  - Gray, Reed A.; and Hyzak, Daniel L., 4,652,296, Cl. 71-87.000.
  - Gray, Reed A.; and Hyzak, Daniel L., 4,652,298, Cl. 71-87.000.
  - Gray, Reed A.; and Hyzak, Daniel L., 4,652,300, Cl. 71-87.000.
  - Gray, Reed A.; and Hyzak, Daniel L., 4,652,301, Cl. 71-7.000.
  - Gray, Reed A.; and Hyzak, Daniel L., 4,652,302, Cl. 71-87.000.
  - Gray, Reed A.; and Hyzak, Daniel L., 4,662,930, Cl. 71-87.000.
- I.C.A. S.p.A. Industria Componenti per l'Architettura: *See—*
  - Zanuso, Marco; and Fratti, Fabio, 4,642,821, Cl. 4-662.000.
- I.C. ACBF: *See—*
  - Matas Gabalda, Carlos, 4,693,068, Cl. 57-58.860.
- I.C Gas International Limited: *See—*
  - Fitt, Peter W., 4,679,409, Cl. 62-476.000.
- I.C.M. S.p.A. Italiana Costruzioni Metalmeccaniche: *See—*
  - Bucefari, Massimo; and Rubechini, Roberto, 4,644,175, Cl. 250-561.000.
  - Bucefari, Massimo; and Rubechini, Roberto, 4,644,743, Cl. 59-31.000.
  - Massimo, Bucefari; and Rubechini, Roberto, 4,658,576, Cl. 59-34.000.
- I.F.W.-Industrie-Formen und Werkzeugbau-Manfred Otte Gesellschaft m.b.H. & Co. KG.: *See—*
  - Mitteregger, Erich; and Schwaiger, Ernst, 4,708,632, Cl. 425-556.000.
- I-Flow Corporation: *See—*
  - Brown, Eric W.; and Tai, Henry T., 4,666,430, Cl. 604-141.000.
  - Brown, Eric W., 4,695,273, Cl. 604-173.000.
  - Brown, Eric W.; and Tai, Henry T., 4,701,159, Cl. 604-43.000.
  - Tai, Henry T.; and Brown, Eric W., 4,687,475, Cl. 604-248.000.
- I.G. Bauerhin GmbH Elektro-Technische Fabrik: *See—*
  - Altmann, Horst-Dieter; and Haupt, Eberhard, 4,695,091, Cl. 297-180.000.
  - Altmann, Horst-Dieter; and Haupt, Eberhard, 4,697,064, Cl. 219-217.000.
- I&H Conveying & Machine Company: *See—*
  - Green, Stephen H.; Hofstetter, Robert W., Sr.; and Hofstetter, Robert W., Jr., 4,709,802, Cl. 198-465.100.
- I.M.A. Industria Maccine Automatiche S.p.A.: *See—*
  - Argazzi, Ivo, 4,645,060, Cl. 198-409.000.
- I. M. Electronics Co., Ltd.: *See—*
  - Kondo, Hiroatsu; and Yamamoto, Yasukiyo, 4,659,914, Cl. 235-380.000.
- I.P.A. S.P.A. Industria Prefabbricati Affini: *See—*
  - Tognoli, Pietro; Cremaschi, Gianfranco; Migliacci, Antonio; and Bono, Giancarlo, 4,703,890, Cl. 238-7.000.
- I.P.D. Systems Limited: *See—*
  - Yarnell, Ian R., 4,657,436, Cl. 405-154.000.
- I.P.M. Industria Politecnica Meridionale S.p.A.: *See—*
  - De Feo, Paolo, 4,672,183, Cl. 235-449.000.
- I.Q.F. Inc.: *See—*
  - Temple, George A.; Kirkwood, Donald W.; and Milankov, Bosko, 4,655,047, Cl. 62-64.000.
- I.S.A.P. S.p.A. (Industrie Specializzate Articoli Plastici): *See—*
  - Padovani, Pietro, 4,650,076, Cl. 206-526.000.
- I.S.T. Corporation: *See—*
  - Sakane, Isamu; and Kawauchi, Satsuki, 4,707,387, Cl. 427-393.500.
- I.T.W. de France: *See—*
  - Ambal, Gilbert, 4,673,070, Cl. 190-108.000.
- I.V.S.D "AVANGARD": *See—*
  - Jetcheva, Dimka I.; Todorov, Todor M.; and Stoichkova, Nedyalka M., 4,655,955, Cl. 252-105.000.
- IABP Corporation: *See—*
  - Schiff, Peter, 4,644,936, Cl. 128-1.00D.
  - Schiff, Peter, 4,697,573, Cl. 128-1.00D.
- Iaccino, Alex: *See—*
  - Bubley, Henry J.; and Iaccino, Alex, 4,648,317, Cl. 101-123.000.
- Iacobucci, Guillermo A.; King, George A.; Goldstein, Jacob H., and Benemann, John R., to Coca-Cola Company, The. Monoquaternized pyrazinium compounds and their use as electron carriers in photosynthetic processes. 4,638,005, 1-20-87, Cl. 544-336.000.
- Iacovangelo, Charles D.: *See—*
  - Zarnoch, Kenneth P.; and Iacovangelo, Charles D., 4,695,489, Cl. 427-438.000.
- Iacoviello, John G., to Air Products and Chemicals, Inc. Stable emulsions of water resistant polyvinyl alcohol-stabilized vinyl chloride-ethylene copolymers. 4,673,702, 6-16-87, Cl. 524-459.000.
- Iacoviello, John G., to Air Products and Chemicals, Inc. Metal container coating compositions comprising stable emulsions of water resistant polyvinyl alcohol-stabilized vinyl chloride-ethylene copolymers. 4,678,829, 7-7-87, Cl. 524-459.000.
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- Iadipaolo, Rene M.; and Tkaczyk, Richard J., to General Motors Corporation. Machine vision method and apparatus. 4,678,920, 7-7-87, Cl. 250-560.000.
- Iafrate, Gerald J.; Malik, Roger J.; and Au Coin, Thomas, to United States of America, Army. Millimeter wave-infrared bloch oscillator/detector. 4,667,211, 5-19-87, Cl. 357-4.000.
- Iai, Kenichiro, to Yoshida Kogyo K.K. Drawing device for use in a drafting machine and a drawing pencil used therewith. 4,704,797, 11-10-87, Cl. 33-18.100.
- Iameter Incorporated: *See—*
  - Mohlenbrock, William C.; Farley, Peter J.; Trummell, Donald E., Jr.; and Kahn, Theodore E., 4,667,292, Cl. 364-406.000.
- Iams, John F.; and Splane, Robson L., Jr., to Superspine, Inc. Exercise machine for simulating swimming motions. 4,674,740, 6-23-87, Cl. 272-71.000.
- Iannella, Vincenzo. Process for preparing 2-[(N-2-pyridylcarbomyl)methyl]saccharin. 4,680,405, 7-14-87, Cl. 546-270.000.
- Iannicelli, Joseph, to Aquafine Corporation. Method for removing organic reduced sulfur compounds. 4,713,225, 12-15-87, Cl. 423-230.000.
- Iannucci, Robert A., to International Business Machines Corporation. High performance memory system utilizing pipelining techniques. 4,685,088, 8-4-87, Cl. 365-230.000.
- Iannuzzi, Giulio: *See—*
  - Baldi, Livio; Corda, Giuseppe; Iannuzzi, Giulio; Re, Danilo; and De Santi, Giorgio, 4,703,552, Cl. 437-45.000.
- Iato, Michel: *See—*
  - Castel, Yvon; and Iato, Michel, 4,643,616, Cl. 405-191.000.
- Iba, Akio, to Casio Computer Co., Ltd. Electronic musical instrument with a bender provided separately from performance keys. 4,653,374, 3-31-87, Cl. 84-1.010.
- Iba, Kunio: *See—*
  - Fukamizu, Hiroshi; Nakano, Masaji; Iba, Kunio; Yamasaki, Taro; and Sano, Kenji, 4,690,553, Cl. 356-51.000.
- Iba, Yoichi; Kimura, Tadashi; and Kajitani, Kazuo, to Olympus Optical Co., Ltd. Objective for a binocular stereomicroscope. 4,640,586, 2-3-87, Cl. 350-414.000.
- Ibach, Harald: *See—*
  - Boden, Karl; Ibach, Harald; and Linke, Udo, 4,708,764, Cl. 156-617.00R.
- IBAK, Helmut Hunger GmbH & Co., KG: *See—*
  - Gulck, Erich, 4,661,855, Cl. 358-225.000.
- Ibamoto, Masahiko; Hori, Takamasa; Asano, Hideki; and Yokota, Hajime, to Hitachi, Ltd. Photosensor employing optical guide posts to detect an object in the path. 4,672,197, 6-9-87, Cl. 250-227.000.
- Ibanez, Rene L. Golf cart umbrella mount bracket. 4,711,422, 12-8-87, Cl. 248-515.000.
- Ibarra, Inigo A., to Esperanza y Cia., S.A. Shell for firing practice. 4,694,755, 9-22-87, Cl. 102-445.000.
- Ibarra, Inigo A., to Esperanza y Cia., S.A. Mortar shell time fuse. 4,699,057, 10-13-87, Cl. 102-248.000.
- Ibata, Akihiko; and Sakamoto, Yoichi, to Matsushita Electric Industrial Co., Ltd. Permanent Mn-Al-C alloy magnets. 4,648,915, 3-10-87, Cl. 148-101.000.
- Ibata, Koichi; Takigawa, Tetsuo; Okada, Masafumi; Mizuno, Masao; and Nishida, Takashi, to Kuraray Co., Ltd. Method of preparing polyprenyl compounds or mixtures thereof. 4,668,820, 5-26-87, Cl. 560-248.000.
- Ibbotson, Arthur, to Imperial Chemical Industries PLC. Process for hydroxyarylaldehydes. 4,700,010, 10-13-87, Cl. 568-433.000.
- Ibbotson, Dale E.; and Tu, Charles W., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Gaseous etching process. 4,689,115, 8-25-87, Cl. 156-646.000.
- Ibbott, Jack K. Insole employing sheetlike battery. 4,703,754, 11-3-87, Cl. 128-383.000.
- Ibe, Hiroyuki; and Shibagaki, Taro, to Kabushiki Kaisha Toshiba. Voltage-controlled variable-frequency pulse oscillator. 4,644,300, 2-17-87, Cl. 331-111.000.
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  - Shibagaki, Taro; Ibe, Hiroyuki; Tamura, Toshifumi; Ozeki, Takeshi; and Hirayama, Yoichi, 4,704,715, Cl. 370-50.000.
- Ibe, Rebecca C. Attachable eye for dolls. 4,639,235, 1-27-87, Cl. 446-389.000.
- Ibi, Akira; Sato, Takushi; Yamaguchi, Akihiro; Takahashi, Shigeru; Shishido, Shigeyuki; Tamai, Shoji; and Nakajima, Hisai, to Mitsui Toatsu Chemicals, Inc. Polyimide adhesives, coats and prepreg. 4,687,836, 8-18-87, Cl. 528-353.000.
- Ibiden Co., Ltd.: *See—*
  - Enomoto, Ryo; Yamauchi, Hidetoshi; and Tanikawa, Shoji, 4,664,946, Cl. 427-126.200.
- Ibiden Kabushiki Kaisha: *See—*
  - Enomoto, Eyo, 4,715,117, Cl. 29-851.000.
  - Ishikawa, Takakazu, 4,693,907, Cl. 427-97.000.
- Ibori, Satoshi; Shimotu, Tadao; and Yabu, Masatomo, to Hitachi, Ltd. and Hitachi Keiyo Engineering Co., Ltd. Method and apparatus for controlling induction motor. 4,689,542, 8-25-87, Cl. 318-778.000.
- Ibrahim, Abd-El-Fattah A.: *See—*
  - Kadekodi, Narayan K.; Ibrahim, Abd-El-Fattah A.; Handy, Roland J.; and Tandon, Jagdish C., 4,712,137, Cl. 358-213.290.
- Ibrahim, Ahmed A., to Papyrus Inc. Method for operably adjusting a leading, forming board strip. 4,684,441, 8-4-87, Cl. 162-198.000.
- Ibrahim, Hadi: *See—*
  - Clark, Alan T.; Ibrahim, Hadi; and Lange, Arthur F., 4,635,255, Cl. 370-110.100.
- Ibrahim, Ibrahim N.; and Sansome, Dennis H., to National Research Development Corporation. Draw-bending method. 4,689,981, 9-1-87, Cl. 72-150.000.
- Ibsen, Robert L.; Glace, William R.; and Jensen, Patricia A., to Den-Mat, Inc. Dental composite and porcelain repair. 4,674,980, 6-23-87, Cl. 433-228.100.
- Ibuchi, Yoshiaki, to Sharp Kabushiki Kaisha. Copying machine. 4,664,503, 5-12-87, Cl. 355-14.0SH.

- Ibuchi, Yoshiaki, to Sharp Kabushiki Kaisha. Electrophotographic copying machine with a function for selecting half-sized copy paper. 4,668,079, 5-26-87, Cl. 355-46.000.
- Ibuchi, Yoshiaki, to Sharp Kabushiki Kaisha. Automatic document feeder. 4,674,734, 6-23-87, Cl. 271-9.000.
- Ibuki, Koji: *See—*
  - Tada, Shoji; and Ibuki, Koji, 4,685,018, Cl. 361-1.000.
- Ibuki, Noritaka: *See—*
  - Nagase, Masaomi; Takemoto, Eiji; Ibuki, Noritaka; and Hasegawa, Takashi, 4,714,068, Cl. 123-506.000.
- Ibushi, Junichi: *See—*
  - Ideue, Kazuo; Oya, Masashi; Hayashi, Kanji; Egawa, Tsuneo; Shimazutsu, Hiroaki; Ibushi, Junichi; Yamamoto, Kunio; Miyaguchi, Kanehisa; and Doho, Tamenari, 4,671,017, Cl. 51-49.000.
- IC Gas International Ltd.: *See—*
  - Page, John K. R., 4,665,711, Cl. 62-238.300.
- Icaro Olivieri & C. S.p.A.: *See—*
  - Olivieri, Oliviero, 4,651,392, Cl. 24-71.0SK.
  - Olivieri, Oliviero, 4,669,153, Cl. 24-68.0SK.
  - Olivieri, Oliviero, 4,670,946, Cl. 24-71.0SK.
  - Olivieri, Oliviero, 4,674,156, Cl. 24-71.0SK.
  - Olivieri, Oliviero, 4,684,140, Cl. 280-11.260.
- Ichiba, Toshinobu: *See—*
  - Take, Takao; Kaneko, Katsuaki; Kusunoki, Kokyo; and Ichiba, Toshinobu, 4,645,548, Cl. 156-39.000.
- Ichiba, Yoshiyuki, to Murata Kikai Kabushiki Kaisha. Apparatus for preventing scatter of fly in winder. 4,673,138, 6-16-87, Cl. 242-35.50R.
- Ichida, Hiroshi: *See—*
  - Ichimura, Kenichi; and Ichida, Hiroshi, 4,692,392, Cl. 430-46.000.
- Ichida, Junji: *See—*
  - Ohsugi, Katsuhisa; Ichida, Junji; and Takahashi, Eisaku, 4,668,627, Cl. 435-119.000.
- Ichida, Katsumi; Miyano, Hideyo; and Suzuki, Shigeru, to Honda Giken Kogyo Kabushiki Kaisha. Intake manifold for multi-cylinder internal combustion engine. 4,669,428, 6-2-87, Cl. 123-52.0MB.
- Ichida, Katsumi: *See—*
  - Miyano, Hideyo; Kobayashi, Atsushi; Suzuki, Shigeru; and Ichida, Katsumi, 4,664,076, Cl. 123-52.0MB.
- Ichida, Koji: *See—*
  - Ohno, Satoshi; Ichida, Koji; Tomita, Hideo; and Matsuzaki, Atsushi, 4,668,977, Cl. 358-60.000.
- Ichida, Kozaburo; Nagira, Norichika; Murata, Mineo; and Namba, Tadashige, to Nippon Steel Corporation. Method and apparatus for cooling steel strip. 4,704,167, 11-3-87, Cl. 148-153.000.
- Ichida, Nobuyuki: *See—*
  - Sato, Takuso; and Ichida, Nobuyuki, 4,691,569, Cl. 73-596.000.
- Ichida, Toshio: *See—*
  - Ogata, Hajime; Nakakouji, Hisatada; Akeda, Yasuhiro; Ichida, Toshio; Irie, Toshio; and Otsuka, Sachiko, 4,687,713, Cl. 428-628.000.
  - Umino, Shigeru; Yamato, Koji; Kimura, Hajime; and Ichida, Toshio, 4,650,724, Cl. 428-659.000.
  - Umino, Shigeru; Yamato, Koji; Kimura, Hajime; and Ichida, Toshio, 4,702,802, Cl. 204-28.000.
- Ichihana, Hideyuki: *See—*
  - Takamatsu, Masayoshi; Hashimoto, Kouji; Manabe, Akiyoshi; and Ichihana, Hideyuki, 4,678,845, Cl. 525-462.000.
- Ichihara, Akinobu: *See—*
  - Yokota, Kinya; Ichihara, Akinobu; Tanakamaru, Yasuharu; and Takahashi, Yoshio, 4,666,523, Cl. 106-213.000.
- Ichihara, Akira, to Alps Electric Co., Ltd. Disk support device having deformation limiting member. 4,649,444, 3-10-87, Cl. 360-99.000.
- Ichihara, Akira, to Alps Electric Co., Ltd. Disk support device. 4,669,008, 5-26-87, Cl. 360-97.000.
- Ichihara, Eiichi; and Iwai, Itsuo, to Honda Giken Kogyo Kabushiki Kaisha; and Tanaka Machine Industries Co., Ltd. Oil supply device for valve operating system having hydraulic tappet in internal combustion engine. 4,709,667, 12-1-87, Cl. 123-90.340.
- Ichihara, Issey; and Muraoka, Toshio, to Kabushiki Kaisha Toshiba. Cleaning apparatus. 4,659,212, 4-21-87, Cl. 355-15.000.
- Ichihara, Issey: *See—*
  - Tachibana, Natsuki; and Ichihara, Issey, 4,648,705, Cl. 355-15.000.
  - Tachibana, Natsuki; and Ichihara, Issey, 4,691,663, Cl. 118-658.000.
- Ichihara, Katsutarou, to Kabushiki Kaisha Toshiba. Optical system for recording/reproducing information by means of a dielectric breakdown effected by photoswitching of a bias-voltage. 4,701,880, 10-20-87, Cl. 365-106.000.
- Ichihara, Katsutarou: *See—*
  - Ohkawa, Hideki; Ichihara, Katsutarou; Terashima, Yoshiaki; and Yasuda, Nobuaki, 4,666,759, Cl. 428-213.000.
  - Shiraishi, Yasuhisa; Fujita, Takashi; Ochi, Yoshiharu; Hirose, Masahiko; Ichihara, Katsutarou; and Ishigami, Takashi, 4,634,635, Cl. 428-446.000.
- Ichihara, Kenji: *See—*
  - Ohno, Sachio; Ebihara, Yuko; Mizukoshi, Kiyoshi; Ichihara, Kenji; Ban, Takao; and Nagasaka, Mitsuaki, 4,713,457, Cl. 546-67.000.
- Ichihara, Kiyoshi: *See—*
  - Yamamoto, Akio; Ishizu, Takazumi; and Ichihara, Kiyoshi, 4,704,139, Cl. 55-3.000.
- Ichihara, Tadashi: *See—*
  - Kuno, Kazuo; Ichihara, Tadashi; Fukumoto, Shintaro; and Nagata, Daisaburo, 4,664,867, Cl. 376-142.000.
  - Kuno, Kazuo; Ichihara, Tadashi; Fukumoto, Shintaro; and Nagata, Daisaburo, 4,664,868, Cl. 376-142.000.
- Ichihara, Takashi, to Kabushiki Kaisha Toshiba. Ring type single-photon emission CT imaging apparatus. 4,639,599, 1-27-87, Cl. 250-363.00S.
- Ichihara, Takashi, to Kabushiki Kaisha Toshiba. Emission computed tomography apparatus. 4,692,624, 9-8-87, Cl. 250-363.00S.
- Ichihara, Takayuki: *See—*
  - Yogo, Takeji; Nakagaki, Akitsuna; Miyazawa, Akio; Mitono, Takeshi; and Ichihara, Takayuki, 4,708,199, Cl. 165-167.000.
- Ichihara, Takeo; Yamanaka, Yukio; and Tsurumaru, Akihiko, to Stanley Electric Co., Ltd. Headlamp for vehicle. 4,682,072, 7-21-87, Cl. 313-115.000.
- Ichihara, Takeo; Watanabe, Shuichi; Futami, Takashi; and Oda, Nobutaka, to Stanley Electric Co., Ltd. Head lamp for automobile. 4,703,401, 10-27-87, Cl. 362-80.000.
- Ichihara, Yutaka: *See—*
  - Magome, Nobutaka; and Ichihara, Yutaka, 4,710,026, Cl. 356-349.000.
- Ichihashi, Eiji: *See—*
  - Tsujimoto, Keizo; Katagiri, Takashi; Ichihashi, Eiji; and Otsuka, Hitoshi, 4,712,366, Cl. 57-245.000.
- Ichihashi, Hiroo; Ozawa, Masakazu; Ebinuma, Ryuichi; and Saito, Atsushi, to Canon Kabushiki Kaisha. Ink jet recorder. 4,695,31 9-22-87, Cl. 346-145.000.
- Ichihashi, Hiroo; Ozawa, Masakazu; Saito, Atsushi; and Ebinuma, Ryuichi, to Canon Kabushiki Kaisha. Temperature control system and ink jet printer utilizing the temperature control system. 4,704,62 11-3-87, Cl. 346-140.00R.
- Ichihashi, Hiroo: *See—*
  - Ebinuma, Ryuichi; Hattori, Yoshifumi; and Ichihashi, Hiroo, 4,680,696, Cl. 346-75.000.
  - Toganoh, Shigeo; Matsufuji, Yohji; and Ichihashi, Hiroo, 4,658,272, Cl. 346-140.00R.
  - Toganoh, Shigeo; Matsufuji, Yohji; and Ichihashi, Hiroo, 4,694,307, Cl. 346-140.00R.
- Ichihashi, Hiroshi; and Yoshioka, Hiroshi, to Sumitomo Chemical Company, Limited. Method for producing cycloolefins. 4,665,27 5-12-87, Cl. 585-267.000.
- Ichihashi, Kazuaki: *See—*
  - Kawashima, Sosuke; and Ichihashi, Kazuaki, 4,699,554, Cl. 414-217.000.
- Ichihashi, Koji, to Diesel Kiki Co. Ltd. Electromagnetic proportional actuator. 4,694,270, 9-15-87, Cl. 335-260.000.
- Ichihashi, Masazumi: *See—*
  - Shinohara, Yoshitsugu; and Ichihashi, Masazumi, 4,634,848, Cl. 235-449.000.
- Ichihashi, Mikio; Okumura, Masahide; and Fukuhara, Satoru, to Hitachi, Ltd. Charged particle beam microprobe apparatus. 4,670,85 6-2-87, Cl. 250-310.000.
- Ichihashi, Tadashi; Kakizawa, Koichiro; and Kawamura, Masanori, to Kowa Company Ltd. Ophthalmic disease detection apparatus. 4,711,542, 12-8-87, Cl. 351-221.000.
- Ichii, Hirokazu: *See—*
  - Koda, Takao; Ichii, Hirokazu; and Komatuzaki, Hiroshi, 4,697,9 Cl. 354-288.000.
- Ichijima, Seiji; Sato, Shingo; Ono, Mitsunori; and Sasaki, Noboru, to Fuji Photo Film Co., Ltd. Silver halide color photographic light-sensitive material. 4,652,516, 3-24-87, Cl. 430-544.000.
- Ichijima, Seiji; and Sasaki, Noboru, to Fuji Photo Film Co., Ltd. Silver halide color photographic light-sensitive material. 4,698,297, 10-6-87, Cl. 430-383.000.
- Ichijima, Seiji; Ono, Mitsunori; Itoh, Isamu; Mihayashi, Keiji; Tamoto, Koji; and Nakamura, Yoshisada, to Fuji Photo Film Co., Ltd. Silver halide color photographic material. 4,711,837, 12-8-87, Cl. 430-548.000.
- Ichijima, Seiji: *See—*
  - Ikenoue, Shinpei; Mikawa, Akikazu; and Ichijima, Seiji, 4,647,52 Cl. 430-505.000.
  - Yamada, Kohzaburoh; Ichijima, Seiji; and Usui, Hideo, 4,678,74 Cl. 430-551.000.
- Ichijo, Kohji: *See—*
  - Kodera, Masanori; Aizawa, Yasuo; and Ichijo, Kohji, 4,636,701, Cl. 318-635.000.
- Ichijo, Yasuhiro: *See—*
  - Bamford, William C.; and Ichijo, Yasuhiro, 4,657,320, Cl. 339-4.000.
- Ichikawa, Akira: *See—*
  - Yuyama, Yukihiro; Motosugi, Takanori; Honda, Yasuhiro; and Ichikawa, Akira, 4,711,874, Cl. 503-206.000.
- Ichikawa, Haruo; Chida, Fumio; Akiike, Katsumi; and Izumi, Kanichi, to Fuji Electric Co., Ltd. Adjusting device for thermal overload relay. 4,642,598, 2-10-87, Cl. 337-82.000.
- Ichikawa, Haruo: *See—*
  - Akiike, Katsumi; Ichikawa, Haruo; Izumi, Kanichi; and Onodera, Tadayoshi, 4,670,728, Cl. 337-49.000.
- Ichikawa, Hideo; Nakaguchi, Mitsuharu; and Yumoto, Hidekazu, to Fuji Xerox Co., Ltd. Electrostatic charge-removing device having filter. 4,669,854, 6-2-87, Cl. 355-3.00R.
- Ichikawa, Hideyuki: *See—*
  - Terajima, Yushi; Tokuda, Katsuhiko; Nakamura, Shoji; Uehara, Keiichi; Ichikawa, Hideyuki; and Iwakami, Shinobu, 4,663,08 Cl. 252-522.00R.
- Ichikawa, Hiroyuki; Nishi, Hisami; and Toyama, Minoru, to Nippon Sheet Glass Co., Ltd. Optical information recording/reproducing element. 4,643,535, 2-17-87, Cl. 350-413.000.
- Ichikawa, Hiroyuki; and Toyama, Minoru, to Nippon Sheet Glass Co., Ltd. Collimator lens. 4,693,565, 9-15-87, Cl. 350-413.000.

Ichikawa, Ichiro: *See*—

Niwa, Kenji; and Ichikawa, Ichiro, 4,673,554, Cl. 423-63.000.

Ichikawa, Ieyasu; and Arai, Shigeji, to Komori Printing. Wiping apparatus for intaglio printing machine. 4,676,157, 6-30-87, Cl. 101-155.000.

Ichikawa, Kaoru: *See*—

Mure, Hiroshi; Mizoguchi, Ryohei; Yokoi, Shinichi; Fujihara, Shigeru; and Ichikawa, Kaoru, 4,686,687, Cl. 373-22.000.

Ichikawa, Katsumi; and Kanzawa, Masahide, to Kabushiki Kaisha Kobe Seiko Sho. Mechanism for transferring cured tires from tire press to post-inflator. 4,702,669, 10-27-87, Cl. 414-749.000.

Ichikawa, Katsumi: *See*—

Amano, Itaru; Fujieda, Yasuhiko; Ichikawa, Katsumi; Kanzawa, Masahide; Yanagihara, Toshio; and Misumi, Shikao, 4,669,964, Cl. 425-34.00R.

Amano, Itaru; Fujieda, Yasuhiko; Ichikawa, Katsumi; Kanzawa, Masahide; Yanagihara, Toshio; and Misumi, Shikao, 4,695,234, Cl. 425-23.000.

Ichikawa, Kenji: *See*—

Kondo, Tatsuhei; Ito, Kaname; Ikeda, Shoichiro; Umeno, Masayoshi; and Ichikawa, Kenji, 4,673,391, Cl. 604-141.000.

Ichikawa, Kentaro, to Kabushiki Kaisha Toshiba. Mechanism for actuating deflector of Pelton wheel. 4,714,402, 12-22-87, Cl. 415-35.000.

Ichikawa, Kiyonoshin: *See*—

Uchida, Katsuhiro; Masumoto, Shozo; Tohno, Masao; Mimura, Mitsuo; Okumura, Makoto; Ichikawa, Kiyonoshin; and Matsumura, Misako, 4,699,925, Cl. 514-559.000.

Ichikawa, Kiyoshi, to Agency of Industrial Science & Technology; and Ministry of International Trade and Industry. Method for manufacture of highly ductile material. 4,636,355, 1-13-87, Cl. 420-590.000.

Ichikawa, Koji, to Fuji Photo Film Co., Ltd. Notcher with improved waste chip removal means. 4,633,743, 1-6-87, Cl. 83-100.000.

Ichikawa, Kosaku: *See*—

Seki, Nagataka; and Ichikawa, Kosaku, 4,675,800, Cl. 363-68.000.

Ichikawa, Kuniharu: *See*—

Okutsu, Hideo; Mikami, Koushirou; Yonezawa, Kazuyoshi; and Ichikawa, Kuniharu, 4,701,595, Cl. 219-364.000.

Ichikawa, Masayoshi: *See*—

Okumoto, Tadaoki; Nakata, Rikizo; Ichikawa, Masayoshi; Tsuchihashi, Masaaki; and Sakai, Koichi, 4,645,788, Cl. 524-308.000.

Ichikawa, Nobuyasu: *See*—

Suzuki, Mitsuo; Hashimoto, Hitoshi; Ichikawa, Nobuyasu; Yamada, Ichiho; Ozawa, Akira; and Matsuyama, Taizo, 4,656,726, Cl. 29-568.000.

Ichikawa, Norio; Takeda, Seijiro; and Tsuruoka, Kazuhiro, to Hitachi, Ltd. Semiconductor pressure transducer. 4,644,797, 2-24-87, Cl. 73-706.000.

Ichikawa, Norio: *See*—

Sato, Kanemasa; Ueno, Sadayasu; and Ichikawa, Norio, 4,657,660, Cl. 204-427.000.

Takeda, Seijiro; Ichikawa, Norio; and Tsuruoka, Kazuhiro, 4,670,730, Cl. 338-4.000.

Ichikawa, Noriyuki; Suzuki, Tetsushi; and Atsumi, Tomiaki, to Toyota Jidosha Kabushiki Kaisha. Crank damper pulley structure for the internal combustion engine of a car. 4,710,152, 12-1-87, Cl. 474-166.000.

Ichikawa, Osamu; and Sadamasa, Tetsuo, to Tokyo Shibaura Denki Kabushiki Kaisha. Display device. 4,647,927, 3-3-87, Cl. 340-801.000.

Ichikawa, Osamu: *See*—

Saito, Yasunori; Ichikawa, Osamu; and Oshima, Toshio, 4,701,015, Cl. 350-96.230.

Ichikawa Press Industry Co., Ltd.: *See*—

Osawa, Mitsuyoshi, 4,669,452, Cl. 128-36.000.

Ichikawa, Sadao; Yokoi, Shinichi; Yasuhara, Seishi; and Kondo, Hiroshi, to NGK Spark Plug Co., Ltd.; and Nissan Motor Co., Ltd. Method of applying electric current to glow plugs and device therefor. 4,635,594, 1-13-87, Cl. 123-179.0BG.

Ichikawa, Shinichi: *See*—

Tago, Tomohisa; Hamada, Shinji; Ichikawa, Shinichi; and Tanase, Yoshimoto, 4,659,927, Cl. 250-318.000.

Ichikawa, Shuji: *See*—

Wakabayashi, Toshio; Takai, Makoto; Ichikawa, Shuji; Arai, Junichiro; and Murota, Seitsu, 4,673,684, Cl. 514-327.000.

Ichikawa, Tadao: *See*—

Hirose, Masataka; Yamanishi, Masamichi; Osaka, Yukio; Ae, Tadashi; Ichikawa, Tadao; Yoshida, Noriyoshi; and Suemune, Ikuo, 4,672,577, Cl. 365-114.000.

Ichikawa, Tadashi. Underwear for men. 4,702,239, 10-27-87, Cl. 128-159.000.

Ichikawa, Takafumi: *See*—

Mizuno, Shigeo; Kubota, Kazuhisa; and Ichikawa, Takafumi, 4,674,352, Cl. 74-484.00R.

Ichikawa, Toru, to Mitsubishi Denki Kabushiki Kaisha. Numerical control system. 4,700,290, 10-13-87, Cl. 364-191.000.

Ichikawa, Toshihito, to Pioneer Electronic Corporation. AM stereo demodulator. 4,648,114, 3-3-87, Cl. 381-15.000.

Ichikawa, Toshihito, to Pioneer Electronic Corporation. AM/FM synchronizing circuit. 4,691,356, 9-1-87, Cl. 381-4.000.

Ichikawa, Toshiji; and Ohachi, Yoshinori, to Terumo Kabushiki Kaisha. Medical instrument. 4,657,541, 4-14-87, Cl. 604-408.000.

Ichikawa, Toshiji; Takahara, Kazuaki; Shimoda, Kazuhiro; Seita, Yukio; and Emi, Makoto, to Terumo Kabushiki Kaisha. Hollow fiber membrane and method for manufacture thereof. 4,708,800, 11-24-87, Cl. 210-500.230.

Ichikawa, Toshiyuki: *See*—

Yamazaki, Kozo; Yamagishi, Fumio; Ikeda, Hiroyuki; Inagaki, Takefumi; Sebata, Ichiro; Kitagawa, Shunji; Kato, Masayuki; and Ichikawa, Toshiyuki, 4,655,541, Cl. 350-3.710.

Ichikawa, Tsutomu: *See*—

Sakashita, Wataru; Chiyoya, Tsukasa; Ichikawa, Tsutomu; and Hayano, Makoto, 4,645,437, Cl. 418-55.000.

Ichikawa, Wataru; Matsuki, Yuji; Hirata, Yoshiaki; and Ito, Mikiya, to Kabushiki Kaisha SG; and Bridgestone Corporation. Bag-cylinder control device in a tire vulcanizer. 4,695,235, 9-22-87, Cl. 425-29.000.

Ichikawa Woolen Textile Co., Ltd.: *See*—

Kiuchi, Masao, 4,643,916, Cl. 427-176.000.

Kiuchi, Masao; Ito, Yoshiaki; Ishibashi, Nobuyuki; and Yamada, Kazuo, 4,701,368, Cl. 428-233.000.

Ichikawa, Yataro; Yoshisato, Eishin; Harada, Toshiaki; Imai, Hiroshi; and Suzuki, Yoji, to Teijin Limited. Anhydrous crystalline or crystalline hemihydrate monohydrate or trihydrate of cephalosporin derivative. 4,668,782, 5-26-87, Cl. 540-222.000.

Ichikawa, Yataro: *See*—

Azuma, Shizuo; Hiramatsu, Toshiyuki; Nakagawa, Koji; and Ichikawa, Yataro, 4,685,952, Cl. 71-86.000.

Ichikawa, Yoshiaki: *See*—

Suzuki, Masanori; Ichikawa, Yoshiaki; Iwatsuka, Nobuyoshi; and Ozaki, Norihiko, 4,662,814, Cl. 414-730.000.

Ichikawa, Yoshinori: *See*—

Shigemasa, Takashi; and Ichikawa, Yoshinori, 4,641,235, Cl. 364-149.000.

Ichikawa, Yoshio; Akahori, Masaaki; Ishii, Daisuke; Tsunoda, Kazuyuki; Minami, Yohichiro; and Nagata, Koichi, to NEC Corporation. Radio communication apparatus disabled on reception of a predetermined signal. 4,639,726, 1-27-87, Cl. 340-825.440.

Ichikawa, Yoshio; and Yamada, Kazumori, to NEC Corporation. Display pager having memory overflow indication and concurrent message display functions. 4,682,148, 7-21-87, Cl. 340-311.100.

Ichikawa, Yoshio: *See*—

Ohyagi, Takashi; and Ichikawa, Yoshio, 4,642,632, Cl. 340-825.440.

Sato, Yukio; and Ichikawa, Yoshio, 4,704,608, Cl. 340-825.440.

Ichikawa, Yukio: *See*—

Katto, Takayuki; and Ichikawa, Yukio, 4,699,975, Cl. 528-486.000.

Ichiki, Masahiro: *See*—

Sawai, Masaaki; Kobayashi, Masamichi; Hayashi, Shoji; Naka, Hiroshi; and Ichiki, Masahiro, 4,692,927, Cl. 372-46.000.

Ichiki, Nobuhiko: *See*—

Yoshida, Kunihiko; Koshi, Kenichi; and Ichiki, Nobuhiko, 4,706,932, Cl. 251-31.000.

Ichiki, Shigemi: *See*—

Yamada, Hideo; Ichiki, Shigemi; Naniwa, Hisamoto; Uchida, Susumu; Kadokura, Kenji; Tsunoda, Susumu; and Nakajima, Kunio, 4,674,127, Cl. 383-6.000.

Ichiki, Tetsuji, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 4,696,214, 9-29-87, Cl. 84-1.010.

Ichikoh Engineering, Ltd.: *See*—

Hachisu, Kiyoji, 4,682,930, Cl. 414-589.000.

Ichikoh Industries Limited: *See*—

Aoki, Akio; and Sato, Mitio, 4,698,873, Cl. 15-250.210.

Endo, Ariyoshi, 4,663,558, Cl. 313-318.000.

Enomoto, Masao, 4,681,409, Cl. 350-637.000.

Enomoto, Masao, 4,696,555, Cl. 350-634.000.

Tanaka, Morimasa; and Kyoden, Tatsuo, 4,698,463, Cl. 200-5.00R.

Tanaka, Morimasa; and Ito, Shinichiro, 4,698,464, Cl. 200-5.00R.

Wada, Yasuto; Ishiyama, Yoshihiko; and Yamashita, Makoto, 4,692,000, Cl. 350-637.000.

Ichimaru, Kazuhiro: *See*—

Ogawa, Hiroyasu; Shigei, Tetsuro; Sugeno, Hiroshi; and Ichimaru, Kazuhiro, 4,671,950, Cl. 423-447.100.

Ichimaru, Yoshiro; Kobayashi, Shigeru; and Ohashi, Toshio, to Nissan Motor Company, Limited. Vehicular air conditioner with defogging feature. 4,709,751, 12-1-87, Cl. 165-17.000.

Ichimaru, Yoshiro: *See*—

Ohashi, Toshio; Ichimaru, Yoshiro; Ishimaru, Junpei; and Hagikura, Hirofumi, 4,660,461, Cl. 98-2.010.

Ichimiya, Touru: *See*—

Narioka, Takao; Moriya, Yoshihito; and Ichimiya, Touru, 4,687,348, Cl. 384-255.000.

Ichimori, Yuzo: *See*—

Tsukamoto, Kyozo; Ichimori, Yuzo; and Wakimasu, Mitsuhiro, 4,681,848, Cl. 435-240.000.

Ichimura, Hiroshi: *See*—

Matsumoto, Kazutoshi; Nakamura, Tetsuro; Hyuga, Takehiro; and Ichimura, Hiroshi, 4,692,421, Cl. 501-136.000.

Nakagaki, Shintaro; and Ichimura, Hiroshi, 4,652,910, Cl. 358-44.000.

Takanashi, Itsuo; Nakagaki, Shintaro; Ichimura, Hiroshi; and Kuriyama, Takashi, 4,691,227, Cl. 358-47.000.

Ichimura, Kazushi: *See*—

Okado, Chihiro; Ichimura, Kazushi; and Ambo, Tatsuaki, 4,646,222, Cl. 363-56.000.

Ichimura, Kenichi; and Ichida, Hiroshi, to Ishihara Sangyo Kaisha, Ltd. Color electrophotographic process uses layered photosensitive element having conductive film on side portion. 4,692,392, 9-8-87, Cl. 430-46.000.

Ichimura, Kunihiro: *See*—

Sakuragi, Masako; and Ichimura, Kunihiro, 4,678,844, Cl. 525-417.000.

Ichimura, Masaaki: *See—*
- Kusaka, Kohei; Ichimura, Masaaki; and Anami, Yuuichi, 4,649,768, Cl. 74-484.00R.
- Sato, Masao; Ichimura, Masaaki; and Sato, Kunio, 4,713,115, Cl. 106-118.000.

Ichimura, Masatoshi, to Satoh Seiki Co., Ltd. Device for retaining a tailoring fabric in a blind stitch operation. 4,669,402, 6-2-87, Cl. 112-178.000.

Ichimura, Masatoshi, to Satoh Seiki Co., Ltd. Device for holding a fabric in blind stich sewing. 4,688,500, 8-25-87, Cl. 112-176.000.

Ichinari, Joji: *See—*
- Fujimura, Hiroshi; Kobayashi, Hideharu; Kaneko, Shozo; Iwanaga, Atsumasa; and Ichinari, Joji, 4,676,425, Cl. 228-45.000.

Ichinari, Mitsuhiro: *See—*
- Hayase, Yoshio; Ichinari, Mitsuhiro; Taguchi, Junji; Ishiguro, Takeo; and Takahashi, Toshio, 4,681,874, Cl. 514-90.000.

Ichino, Kazuo: *See—*
- Yonezawa, Seiji; Ohtake, Masatoshi; Ito, Masaru; Tsuyoshi, Toshiaki; Ichino, Kazuo; and Nakagaki, Harushige, 4,707,816, Cl. 369-44.000.

Ichino, Toshihiro: *See—*
- Hasuda, Yoshinori; Sasaki, Shigekuni; and Ichino, Toshihiro, 4,666,760, Cl. 428-215.000.

Ichinohe, Eisuke: *See—*
- Tsuji, Kazuhiko; Yamaguchi, Seiji; and Ichinohe, Eisuke, 4,672,584, Cl. 365-226.000.
- Yamaguchi, Seiji; Ichinohe, Eisuke; and Katsura, Johji, 4,712,194, Cl. 365-203.000.

Ichinohe, Kazuhiro, to Hori Glass Co., Ltd. Glass pane holder for window regulator. 4,663,901, 5-12-87, Cl. 52-127.300.

Ichinohe, Shoji: *See—*
- Tanaka, Masaki; and Ichinohe, Shoji, 4,680,366, Cl. 528-27.000.
- Yokota, Tohru; Inoue, Kaname; Kitamura, Hajime; Isobe, Kenichi; Ichinohe, Shoji; and Yanagisawa, Takeji, 4,665,145, Cl. 526-279.000.

Ichinoi, Yutaka, to Victor Company of Japan, Ltd. Noise reduction circuit for video signal. 4,635,120, 1-6-87, Cl. 358-167.000.

Ichinoi, Yutaka; and Nishimoto, Naomichi, to Victor Company of Japan, Ltd. Color video signal transmitting apparatus. 4,641,201, 2-3-87, Cl. 358-310.000.

Ichinoi, Yutaka, to Victor Company of Japan, Ltd. Color video signal recording and reproducing apparatus. 4,661,863, 4-28-87, Cl. 358-334.000.

Ichinose, Harunobu: *See—*
- Nakamori, Masao; and Ichinose, Harunobu, 4,694,363, Cl. 360-99.000.

Ichinose, Hisashi: *See—*
- Ikeyama, Norio; Yoshioka, Noriaki; Tamaru, Shusaku and Ichinose, Hisashi, 4,707,261, Cl. 210-433.200.

Ichinose, Isao: *See—*
- Osugi, Katsuhisa; Ichinose, Isao; Takahashi, Eisaku; and Arahira, Masato, 4,684,664, Cl. 514-475.000.

Ichinose, Katsuki; and Shinohara, Hirofumi, to Mitsubishi Denki Kabushiki Kaisha. Semiconductor memory device. 4,709,354, 11-24-87, Cl. 365-226.000.

Ichinose, Katsuki: *See—*
- Shinohara, Hirofumi; and Ichinose, Katsuki, 4,645,998, Cl. 323-313.000.

Ichinose, Kazushige: *See—*
- Nakayama, Iwao; Kobayashi, Masatoshi; Ichinose, Kazushige; and Nasuno, Kenji, 4,677,397, Cl. 331-187.000.

Ichinose, Kiyohiro: *See—*
- Enomoto, Masayuki; Ishibashi, Ichiro; Yamashita, Sachihiro; Ichinose, Kiyohiro; and Kano, Toshiharu, 4,667,386, Cl. 29-157.00R.

Ichinose, Makoto: *See—*
- Sugimura, Tatuo; Satoh, Isao; Ichinose, Makoto; and Kuroki, Yuzuru, 4,653,051, Cl. 371-37.000.

Ichinoseki, Tsuyoshi; Kato, Hirobumi; Miyahara, Shuji; and Kimuro, Harumi, to Doryokuro Kakunenryo Kaihatsu Jigyodan; and Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Cleaning method. 4,655,847, 4-7-87, Cl. 134-7.000.

Ichioka, Tetsumi: *See—*
- Okamoto, Harutaka; Ichioka, Tetsumi; and Kato, Takashi, 4,652,036, Cl. 296-1.00S.

Ichioka, Youichi, to Mitsubishi Denki Kabushiki Kaisha. Elevator group supervision apparatus. 4,685,536, 8-11-87, Cl. 187-101.000.

Ichioka, Youichi, to Mitsubishi Denki Kabushiki Kaisha. Elevator control apparatus. 4,690,243, 9-1-87, Cl. 187-101.000.

Ichiryu, Taku: *See—*
- Katayama, Kazuso; Ichiryu, Taku; Mitsuhashi, Tsuneyoshi; Mori, Yasushi; and Kobayashi, Masanori, 4,715,778, Cl. 415-104.000.
- Katayama, Kazuzo; Ichiryu, Taku; Mitsuhashi, Tsuneyoshi; Mouri, Yasushi; and Kobayashi, Masanori, 4,697,987, Cl. 416-204.00A.
- Mouri, Yasushi; Katayama, Kazuzo; Ichiryu, Taku; Mitsuhashi, Tsuneyoshi; and Kobayashi, Masanori, 4,706,969, Cl. 277-83.000.

Ichiryuu, Taku: *See—*
- Katayama, Kazuso; Ichiryuu, Taku; Mouri, Yasushi; Mitsuhashi, Tsuneyoshi; and Kobayashi, Masanori, 4,708,587, Cl. 415-104.000.

Ichise, Eiji: *See—*
- Nakamura, Hajime; Iwase, Masanori; Ichise, Eiji; Moriya, Takaharu; and Maruhashi, Shigeaki, 4,657,641, Cl. 204-1.00T.
- Nakamura, Hajime; Iwase, Masanori; Ichise, Eiji; Moriya, Takaharu; and Maruhashi, Shigeaki, 4,708,783, Cl. 204-423.000.

Ichise, Nagayoshi: *See—*
- Kitaya, Katsuhiko; and Ichise, Nagayoshi, 4,647,197, C 356-239.000.

Ichishita, Yuzo: *See—*
- Kojima, Katsumi; and Ichishita, Yuzo, 4,655,801, Cl. 55-218.00

Ichitani, Tetsuro; and Saito, Shunzi, to Tokyo Electric Co., Ltd. Flopp disc driving apparatus. 4,652,950, 3-24-87, Cl. 360-105.000.

Ichitoh, Toshikatsu: *See—*
- Kato, Shigeru; Osada, Naomi; Ichitoh, Toshikatsu; Murata, Masa and Mochizuki, Masfumi, 4,641,151, Cl. 346-76.0PH.

Ichitsubo, Norio, to Hosiden Electronics Co., Ltd. Connector fo flexible printed circuit board. 4,695,108, 9-22-87, Cl. 439-59.000.

Ichiyama, Tadashi: *See—*
- Kumai, Ko; Noda, Tatsuhiko; Ichiyama, Tadashi; and Satoh, Takashi, 4,647,305, Cl. 75-0.50B.

Ichiyanagi, Takashi: *See—*
- Imanishi, Kiyokazu; Naka, Hiroyuki; Sakurai, Yasuo; Ichiyanag Takashi; and Kishimoto, Masaru, 4,641,214, Cl. 360-130.240.

Ichiyoshi, Osamu, to NEC Corporation. Phase synchronizing circu 4,654,864, 3-31-87, Cl. 375-120.000.

Ichoh, Tasuku: *See—*
- Abe, Hiroshi; Shichiri, Motoaki; Kawamori, Ryuzo; Ichoh, Tasuku; Iwatani, Kenji; Higuchi, Mamoru; Takagi, Kiyotak Okamoto, Norihiko; and Okudaira, Toshiyuki, 4,636,144, C 417-63.000.

ICI Americas Inc.: *See—*
- Bare, Thomas M.; and Heald, Anthony F., 4,645,838, C 546-84.000.
- Davis, Ronald I.; Phalangas, Charalambos J.; and Titus, George R., 4,645,794, Cl. 525-61.000.
- Davis, Ronald I.; Phalangas, Charalambos J.; and Titus, George R., 4,690,817, Cl. 424-70.000.
- Dutta, Anand S.; Stein, Ross L.; Trainor, Diane A.; and Wildo Richard A., 4,691,007, Cl. 530-331.000.
- Fancher, Philip D., 4,700,179, Cl. 340-572.000.
- Hartmann, Ludwig A.; and Stephen, John F., 4,658,031, C 546-193.000.
- Hartmann, Ludwig A.; and Stephen, John F., 4,687,854, C 546-261.000.
- Kirkland, Karin M.; and Mant, Derrick M., 4,683,228, C 514-211.000.
- Kruse, Walter M.; and Stephen, John F., 4,645,839, Cl. 546-290.00
- Lai, Kwo-Hrong; Lapkin, Milton; and Swasey, Frank B., 4,657,9 Cl. 524-409.000.
- Nelson, Richard V.; and Stephen, John F., 4,687,800, C 524-103.000.
- Nelson, Richard V.; and Stephen, John F., 4,689,360, C 524-102.000.
- Nelson, Richard V.; and Stephen, John F., 4,690,963, C 524-98.000.
- Nelson, Richard V.; and Stephen, John F., 4,701,485, C 524-98.000.
- Nelson, Richard V.; and Stephen, John F., 4,709,063, C 549-561.000.
- Nelson, Richard V.; and Stephen, John F., 4,710,527, C 524-98.000.
- Payne, Earl R., 4,635,207, Cl. 364-484.000.
- Payne, Earl R., 4,639,716, Cl. 340-571.000.
- Resch, James F., 4,705,793, Cl. 514-293.000.
- Restaino, Alfred J.; Phalangas, Charalambos J.; and Titus, George R., 4,689,217, Cl. 424-70.000.
- Stephen, John F.; Smith, Jerry H.; and Meshreki, Makram H. 4,645,853, Cl. 560-58.000.
- Yellin, Tobias O.; Gilman, David J.; Edwards, Philip N.; Larg Michael S.; Jones, Derrick F.; and Oldham, Keith, 4,657,908, C 514-245.000.
- Yellin, Tobias O.; and Gilman, David J., 4,665,073, Cl. 514-245.00
- Yellin, Tobias O.; and Gilman, David J., 4,696,933, Cl. 514-275.00

ICI Australia Limited: *See—*
- Bird, Graham J.; Farquharson, Graeme J.; and Watson, Keith G. 4,640,708, Cl. 71-98.000.
- Bird, Graham J.; Farquharson, Graeme J.; Watson, Keith G.; and Whitelaw, Murray L., 4,664,693, Cl. 71-88.000.
- Bird, Graham J.; Farquharson, Graeme J.; and Watson, Keith G. 4,680,400, Cl. 546-141.000.
- Curtin, David J.; and Yates, David E., 4,676,849, Cl. 149-2.000.
- Farquharson, Graeme J.; Watson, Keith G.; and Bird, Graham J. 4,639,267, Cl. 71-98.000.
- Farquharson, Graeme J.; Watson, Keith G.; and Bird, Graham J. 4,643,763, Cl. 71-98.000.
- Parris, David; and Tonner, Steven P., 4,684,755, Cl. 585-257.000.
- Serban, Alexander; Watson, Keith G.; and Farquharson, Grame J. 4,655,819, Cl. 71-92.000.
- Watson, Keith G.; Bird, Graham J.; and Farquharson, Graeme J. 4,652,303, Cl. 71-88.000.
- Watson, Keith G.; and Farquharson, Graeme J., 4,659,362, C 71-92.000.
- Watson, Keith G.; Garson, Lynette A.; Bird, Graham J.; Cros Lindsay E.; and Farquharson, Graeme J., 4,666,510, C 71-103.000.
- Yates, David E.; and Dack, Stuart W., 4,710,248, Cl. 149-21.000

ICI Pharma: *See—*
- Jung, Frederic, 4,678,781, Cl. 514-200.000.

Icking, Friedrich; and Willach, Eberhard, to Westfalia Separator AG Pulsator for milking machines. 4,643,132, 2-17-87, Cl. 119-14.410

- Icking, Friedrich; and Bucker, Heinrich, to Westfalia Separator AG. Device for cleaning a milking system. 4,702,197, 10-27-87, Cl. 119-14.180.
- ICL Scientific Corp.: *See—*
  - Mitchell, Vance C., 4,637,693, Cl. 350-536.000.
- ICN Micromedic Systems, Inc.: *See—*
  - Olson, Douglas R., 4,672,028, Cl. 435-5.000.
- Icore International, Inc.: *See—*
  - Lewis, Milton R., 4,673,234, Cl. 439-469.000.
- Icotron S.A. Industria de Componentes Electronicos: *See—*
  - Farias, Paulo D.; Mazzei, Francisco A. F.; Santo, Ubirajara do E.; and Werle, Paulo, 4,644,256, Cl. 323-299.000.
- ICP S.A.: *See—*
  - Dreyfus, Roger, 4,715,493, Cl. 206-200.000.
- ICT Integrated Circuit Testing Gesellschaft, fuer Halbleiterpruftechnik mbH: *See—*
  - Feuerbaum, Hans-Peter, 4,683,376, Cl. 250-309.000.
- ICU Intercommerz Union S.A.: *See—*
  - Marchesini, Sisto, 4,693,510, Cl. 297-39.000.
- Ida, Jinsei; Hagimoto, Yoshio; and Ishikawa, Makoto, to Honda Giken Kogyo Kabushiki Kaisha. Apparatus for preventing invasion of cutting liquid in replaceable head type machine tool. 4,697,965, 10-6-87, Cl. 408-56.000.
- Ida, Masao: *See—*
  - Inoue, Masaru; Ida, Masao; and Kohara, Takao, 4,665,764, Cl. 74-436.000.
  - Inoue, Masaru; Ida, Masao; and Kohara, Takao, 4,686,863, Cl. 74-425.000.
- Ida, Masatoshi, to Olympus Optical Co., Ltd. Apparatus and method for detecting focus condition of an imaging optical system. 4,701,605, 10-20-87, Cl. 250-201.000.
- Ida, Masatoshi: *See—*
  - Katoh, Akira; Ida, Masatoshi; Shijima, Kouichi; Oishi, Makoto; Hashimoto, Akihiko, and Takahashi, Shinya, 4,641,215, Cl. 360-35.100.
- Ida, Mitsuru, and Shimada, Minoru, to Sony Corporation. Battery holder of single head minimum size cassette tape player. 4,661,865, 4-28-87, Cl. 360-96.600.
- Ida, Mitsuru, to Sony Corporation. Capstan friction drive apparatus of tape recorder. 4,701,816, 10-20-87, Cl. 360-96.400.
- Ida, Shuichiro; Shimizu, Katsumi; and Hotta, Junichi, to Toyota Jidosha Kabushiki Kaisha; and Aisin Seiki Kabushiki Kaisha. Shift mechanism for change-speed gearing in power transmission. 4,676,114, 6-30-87, Cl. 74-335.000.
- Ida, Shuichiro; Yoshinaka, Toshio; and Nagano, Shuji, to Toyota Jidosha Kabushiki Kaisha. Lubrication mechanism in power transfer device for four wheel drive. 4,713,980, 12-22-87, Cl. 74-467.000.
- Ida, Shuichiro: *See—*
  - Nagano, Shuji; Ida, Shuichiro; and Yoshinaka, Toshio, 4,679,449, Cl. 74-12.000.
  - Nagano, Shuji; Ida, Shuichiro; Yoshinaka, Toshio; and Okuda, Shozo, 4,690,015, Cl. 74-665.0GE.
  - Takeshita, Keiji; Hamano, Hideo; Ohshima, Shoichi; Suzuki, Takaaki; and Ida, Shuichiro, 4,674,600, Cl. 184-6.120.
  - Yoshinaka, Toshio; Taniguchi, Toshikatsu; Ida, Shuichiro; Nagano, Shuji; Kimura, Shigeru; and Tanaka, Yasuo, 4,711,136, Cl. 74-665.0GA.
- Ida, Takanori: *See—*
  - Nishimura, Yoichi; Ogata, Masamitsu; and Ida, Takanori, 4,636,484, Cl. 502-65.000.
  - Sato, Goro; Ogata, Masamitsu; Masuda, Tatsuo; and Ida, Takanori, 4,692,236, Cl. 208-114.000.
- Ida, Yoshiaki, to Mitsubishi Denki Kabushiki Kaisha. Optical sensing equipment. 4,644,153, 2-17-87, Cl. 250-225.000.
- Ida, Yoshiaki, to Mitsubishi Denki Kabushiki Kaisha. Temperature measuring device. 4,669,872, 6-2-87, Cl. 356-43.000.
- Ida, Yuichi: *See—*
  - Tsukada, Jiro; Hosogoe, Junichi; and Ida, Yuichi, 4,652,871, Cl. 340-710.000.
- Idaho Research Foundation, Inc.: *See—*
  - Sasser, R. Garth; and Hamilton, William C., 4,705,748, Cl. 435-7.000.
- Idan, Shlomo, to Elbit Computers, Ltd. Optical sighting device. 4,665,622, 5-19-87, Cl. 33-241.000.
- IDC-Chemie AG: *See—*
  - Mader, Karl; Schonenberger, Guido; and Buzzi, Carlo A., 4,711,375, Cl. 222-135.000.
- Ide, Akifumi: *See—*
  - Juri, Tatsuro; Iketari, Akira; Yamamitsu, Chojuro; and Ide, Akifumi, 4,691,329, Cl. 375-122.000.
- Ide, Allan R.; Parks, William R.; and Arnold, Peter S., to Ide, Allan R. Overhead garage door lock for use with automatic opener. 4,668,899, 5-26-87, Cl. 318-280.000.
- Ide, Fumito; and Mochizuki, Hidenori, to Kabushiki Kaisha Toshiba. Image-forming apparatus with automatic and manual paper feed modes. 4,639,114, 1-27-87, Cl. 355-35.00H.
- Ide, Fumito, to Kabushiki Kaisha Toshiba. Image forming apparatus in which an image forming unit and a document feeding unit are alternately operated. 4,657,376, 4-14-87, Cl. 355-14.00R.
- Ide, Fumito: *See—*
  - Murakami, Reiji; Hashimoto, Shinichi; Shimono, Mamoru; and Ide, Fumito, 4,682,769, Cl. 271-10.000.
  - Sogo, Toshiyuki; and Ide, Fumito, 4,679,927, Cl. 355-3.00R.
- Ide, Jushi: *See—*
  - Kuwabara, Hiroshi; Ide, Jushi; Kamata, Yasuji; and Yamashita, Kenkichi, 4,638,308, Cl. 340-736.000.
- Ide, Katsuyuki: *See—*
  - Aoike, Nanjou; Ide, Katsuyuki; Kobayashi, Hisao; and Hamaguchi, Mitsuhiro, 4,635,052, Cl. 340-811.000.
- Ide, Kinya: *See—*
  - Hayase, Yoshio; Morita, Koichi; Ide, Kinya; and Takahashi, Toshio, 4,648,898, Cl. 71-93.000.
  - Hayase, Yoshio; Ohtsuka, Toshikazu; Ide, Kinya; and Takahashi, Toshio, 4,695,312, Cl. 71-92.000.
- Ide, Manabu, to Kabushiki Kaisha Aideie. Attaching method for shell-type milling cutter. 4,701,084, 10-20-87, Cl. 409-131.000.
- Ide, Mason G.: *See—*
  - Leo, Vincent B.; Cyll, Kenneth M.; and Ide, Mason G., 4,713,524, Cl. 219-307.000.
- Ide, Nobuhiro, to Mitsubishi Denki Kabushiki Kaisha. Roller bearing lubricating device. 4,704,039, 11-3-87, Cl. 384-464.000.
- Ide, Richard A.: *See—*
  - Bloom, Robert D.; Carrington, James E.; Ide, Richard A.; Traglia, Patrick J.; and Westcott, Gerald R., 4,649,501, Cl. 364-519.000.
- Ide, Russell D. Multi-deflection pad-type hydrodynamic bearing. 4,676,668, 6-30-87, Cl. 384-117.000.
- Ide, Satoshi: *See—*
  - Enjo, Naonori; Noguchi, Masahiro; and Ide, Satoshi, 4,651,531, Cl. 60-651.000.
  - Enjo, Naonori; Noguchi, Masahiro; and Ide, Satoshi, 4,673,517, Cl. 252-67.000.
- Ioe, Takashi, to Sumitomo Electric Industries, Ltd. Apparatus for measuring the cut-off wavelength of a single-mode optical fiber. 4,636,070, 1-13-87, Cl. 356-73.100.
- Ide, Takashi, to Sumitomo Electric Industries, Ltd. Optical fiber characteristic measurement. 4,714,343, 12-22-87, Cl. 356-73.100.
- Ide, Takashi: *See—*
  - Sakamoto, Katsuji; Ohta, Akio; Toda, Yuichi; Suzuki, Shuzo; and Ide, Takashi, 4,676,635, Cl. 356-73.100.
- Ide, Tatsumi; Morimoto, Masayuki; and Chiba, Kei, to NEC Corporation. Electromagnetic relay. 4,686,500, 8-11-87, Cl. 335-128.000.
- Ide, Toshiaki; Shimozawa, Tohru; and Nishimatsu, Masaharu, to TDK Corporation. Magnetic recording medium. 4,699,819, 10-13-87, Cl. 428-141.000.
- Ide, Toshiaki: *See—*
  - Arioka, Hiroyuki; Ishizaki, Hideki; and Ide, Toshiaki, 4,666,754, Cl. 428-141.000.
  - Nishimatsu, Masaharu; Ide, Toshiaki; Saito, Yoshiaki; and Kubota, Yuichi, 4,637,963, Cl. 428-694.000.
  - Nishimatsu, Masaharu; Ide, Toshiaki; and Arioka, Hiroyuki, 4,639,389, Cl. 428-141.000.
- Ide, Yasuo; Ogushi, Kimio; and Yamauchi, Kazuhiro, to Mitsubishi Jukogyo Kabushiki Kaisha. Method for testing gas diffusion and apparatus for same. 4,646,564, 3-3-87, Cl. 73-147.000.
- Ide, Yuji, to Kabushiki Kaisha Toshiba. Color filter arrays for use in a single chip color television pickup system using the field integration mode. 4,710,804, 12-1-87, Cl. 358-48.000.
- Ide, Yukio; Ohnuma, Teruyuki; and Kageyama, Yoshiyuki, to Ricoh Company, Ltd. Manual information input device. 4,707,570, 11-17-87, Cl. 178-18.000.
- Ide, Yukio: *See—*
  - Ohshima, Kohichi; Kageyama, Yoshiyuki; Ide, Yukio; Fujimura, Itaru; and Kunita, Masako, 4,687,723, Cl. 430-65.000.
- Idea Research Investment Fund, Inc.: *See—*
  - Walsh, David J.; Lougheed, William M.; Gentili, Fred; and Fazl, Mahmood, 4,657,019, Cl. 128-334.00C.
- Ideal Industries, Inc.: *See—*
  - Blaha, William E., 4,691,079, Cl. 174-87.000.
  - Blaha, William E., 4,707,567, Cl. 174-87.000.
- Ideal Instruments, Inc.: *See—*
  - Prindle, Gordon E.; and Kelm, Thomas J., 4,687,465, Cl. 604-61.000.
  - Prindle, Gordon E., 4,715,853, Cl. 604-184.000.
- Ideal Security Hardward Corporation: *See—*
  - Waldo, Russell W.; and Miller, Cardell E., 4,709,445, Cl. 16-300.000.
- Ideas That Sell, Inc.: *See—*
  - Ament, Harold E.; and Kirschner, Frederick G., 4,705,273, Cl. 273-72.00R.
- Idec, Eric J.; and Holloway, Thomas F., to Risdon Corporation. Cosmetic container construction. 4,690,578, 9-1-87, Cl. 401-78.000.
- Idec Izumi Corporation: *See—*
  - Araki, Mikio; Yonamine, Shigeru; and Yukawa, Kouichi, 4,702,163, Cl. 101-35.000.
- Ideda, Akihiko: *See—*
  - Ai, Hideo; Ideda, Akihiko; and Sato, Jiro, 4,702,997, Cl. 430-325.000.
- Idegren, Gustav L.; Gyllstal, Lars-Goran L.; and Bartha, Istvan V., to Inter Innovation AB. Lockable cassette for valuable objects. 4,714,029, 12-22-87, Cl. 109-45.000.
- Idei, Masao: *See—*
  - Kumasaka, Sadao; Tada, Satomi; Fujii, Osamu; Yoneyama, Goro; and Idei, Masao, 4,666,393, Cl. 425-204.000.
- Idei, Michio: *See—*
  - Masaka, Mitusuke; Arai, Takatoshi; Iwabuchi, Hideo; and Idei Michio, 4,643,653, Cl. 417-417.000.
- Idel, Karsten; and Willenberg, Bernd, to Bayer Aktiengesellschaft. Fibres and filaments of polyarylene sulphides. 4,645,825, 2-24-87, Cl. 528-388.000.
- Idel, Karsten; Ostlinning, Edgar; Freitag, Dieter; and Alewelt, Wolfgang, to Bayer Aktiengesellschaft. Preparation of polyarylene sul-

phide in presence of amino carboxylic acid. 4,661,584, 4-28-87, Cl. 528-388.000.

Idel, Karsten: *See—*
  Ostlinning, Edgar; and Idel, Karsten, 4,663,430, Cl. 528-388.000.
  Reinking, Klaus; Idel, Karsten; and Ostlinning, Edgar, 4,665,156, Cl. 528-388.000.

Idelman, Peter: *See—*
  Ahlfors, Matts; Koskimies, Salme; Lahtinen, Leila; and Idelman, Peter, 4,694,099, Cl. 560-75.000.

Idelson, Elbert M.: *See—*
  Chinoporos, Efthimios; Idelson, Elbert M.; and King, Patrick F., 4,656,117, Cl. 430-225.000.

Idemitsu Kosan Company Limited: *See—*
  Harada, Junzo, 4,704,264, Cl. 423-347.000.
  Hata, Hitoshi; Machida, Hisashi; and Ishihara, Tomoo, 4,704,215, Cl. 252-32.70E.
  Hata, Hitoshi; Machida, Hisashi; and Ishihara, Tomoo, 4,704,216, Cl. 252-32.70E.
  Ishihara, Nobuhide; Kuramoto, Masahiko; and Uoi, Michitake, 4,680,353, Cl. 526-160.000.
  Komiyama, Hiroshi, 4,654,228, Cl. 427-180.000.
  Kubota, Katsuzo; Nakai, Masayuki; and Ono, Shigeyoshi, 4,645,513, Cl. 44-10.00H.
  Maehara, Junichiro; Izumi, Kenzo; and Hirokawa, Ikuo, 4,703,078, Cl. 524-476.000.
  Maruya, Takeshi; and Yamazaki, Katuyuki, 4,670,022, Cl. 44-68.000.
  Matsuo, Shigeru; and Murakami, Tomoyoshi, 4,640,974, Cl. 528-211.000.
  Matsuo, Shigeru; and Murakami, Tomoyoshi, 4,640,975, Cl. 528-211.000.
  Matsuo, Shigeru; and Murakami, Tomoyoshi, 4,663,427, Cl. 528-211.000.
  Matsuo, Shigeru; Murakami, Tomoyoshi; and Takasawa, Ryuichi, 4,703,104, Cl. 528-211.000.
  Minokami, Tomiyasu; Saito, Yoshinori; and Tsubouchi, Toshiyuki, 4,689,436, Cl. 585-422.000.
  Okada, Tahei; and Takesue, Masahiko, 4,634,543, Cl. 252-78.300.
  Sonoda, Noboru, 4,677,844, Cl. 73-55.000.
  Takematsu, Tetsuo; Nishii, Masahiro; and Kobayashi, Izumi, 4,680,054, Cl. 71-93.000.
  Tsubouchi, Toshiyuki; and Hata, Hitoshi, 4,684,754, Cl. 585-21.000.
  Tsubouchi, Toshiyuki; Minokami, Tomiyasu; and Shimizu, Nobuaki, 4,703,124, Cl. 546-352.000.
  Tsubouchi, Toshiyuki; and Hata, Hitoshi, 4,704,490, Cl. 585-1.000.

Idemitsu Petrochemical Co., Ltd.: *See—*
  Bailey, Philip E.; Pickett, Gordon E.; Luttinger, Manfred; and Umeda, Takashi, 4,713,407, Cl. 524-109.000.
  Endo, Hideki; Hashimoto, Kazuto; Tanaka, Kenji; Matsumoto, Takeshi; Igi, Keishiro; Okamura, Takayuki; Taniguchi, Shunro; Ishii, Masao; Murata, Yoshifumi; and Yokota, Shinichi, 4,657,973, Cl. 525-67.000.
  Fujii, Atsushi; Kaneda, Kazuhisa; and Tokiya, Yoshihiro, 4,680,157, Cl. 264-180.000.
  Kimura, Masakatsu; and Nakamura, Osamu, 4,643,928, Cl. 428-36.000.
  Koga, Yasuharu; Yamamoto, Fumitada; and Shimokawa, Hideharu, 4,655,838, Cl. 106-90.000.
  Koga, Yasuharu; Yasumura, Jiro; and Nagano, Mitsuo, 4,662,942, Cl. 106-90.000.
  Ogawa, Kenji, 4,637,812, Cl. 493-357.000.
  Sinclair, Richard G.; Benecke, Herman P.; and Sowell, Sylvester, 4,698,415, Cl. 528-388.000.
  Takubo, Toyokazu; and Fujii, Atsushi, 4,666,649, Cl. 264-176.100.
  Yamada, Tadashi; and Yamaguchi, Katsuhisa, 4,665,205, Cl. 549-509.000.

Idemitsukosan Kabushiki Kaisha: *See—*
  Matsumura, Tetsuo; Ohzawa, Toshio; Kawashima, Akihiro; Ohkuma, Osamu; Sawada, Saburo; Yanai, Shun'ichi; Yoshimura, Hiroshi; and Sugino, Yasuo, 4,714,543, Cl. 208-412.000.

Idemoto, Morito: *See—*
  Noguchi, Yasuo; Idemoto, Morito; and Matsunaga, Fumiaki, 4,662,212, Cl. 73-24.000.

Iden Industries, Inc.: *See—*
  Iden, Lee J., 4,667,518, Cl. 73-753.000.

Iden, Lee J., to Iden Industries, Inc. Sensor circuit. 4,667,518, 5-26-87, Cl. 73-753.000.

Iden, Marlin D.: *See—*
  Kramer, Melvin G.; and Iden, Marlin D., 4,700,490, Cl. 33-355.00D.

Iden, Ruediger; and Seybold, Guenther, to BASF Aktiengesellschaft. Concentration of light over a particular area, and novel perylene-3,4,9,10-tetracarboxylic acid diimides. 4,667,036, 5-19-87, Cl. 546-37.000.

Iden, Steven M., to United States of America, Air Force. Stored energy thermionics modular power system. 4,700,099, 10-13-87, Cl. 310-306.000.

Identicator Corp.: *See—*
  Hedgcoth, Virgil; and Arndt, Douglas C., 4,705,299, Cl. 283-68.000.
  Martin, Timothy S.; and Arndt, Douglas C., 4,702,194, Cl. 118-31.500.

Identicolor International, Inc.: *See—*
  Evans, Robert; and Evans, Robert, Jr., 4,640,878, Cl. 430-15.000.

Identification Systems Company L.P.: *See—*
  Wilfert, Ronald A., 4,687,526, Cl. 156-64.000.

Idesawa, Masanori, to Rikagaku Kenkyusho. Optical distance measuring apparatus. 4,637,715, 1-20-87, Cl. 356-1.000.

Idetra B.V.: *See—*
  Cats, Pier C. M., 4,657,163, Cl. 225-106.000.

Ideue, Kazuo; Oya, Masashi; Hayashi, Kanji; Egawa, Tsuneo; Shimazutsu, Hiroaki; Ibushi, Junichi; Yamamoto, Kunio; Miyaguchi, Kanehisa; and Doho, Tamenari, to Mitsubishi Jukogyo Kabushiki Kaisha. Method and apparatus for grinding a rotary body. 4,671,017, 6-9-87, Cl. 51-49.000.

Idex Limited (Jersey): *See—*
  Frampton, Jeffery A., 4,672,783, Cl. 52-224.000.

Idigkeit, Werner; Kurr, Klaus; and Ticks, Gerd-Heinz, to Carl Freudenberg, Firma. Apparatus for resiliently mounting a vibrating body. 4,638,983, 1-27-87, Cl. 267-140.100.

IDN Inventions and Development of Novelties AG: *See—*
  Ackeret, Peter, 4,640,415, Cl. 206-387.000.
  Ackeret, Peter, 4,650,072, Cl. 206-307.000.
  Ackeret, Peter, 4,655,344, Cl. 206-307.000.
  Ackeret, Peter, 4,702,372, Cl. 206-387.000.
  Ackeret, Peter, 4,712,678, Cl. 206-387.000.

Ido, Kihei, to Mitsubishi Denki Kabushiki Kaisha. Apparatus for reproducing multiple track digital signals and including timing control of read/write operations. 4,636,877, 1-13-87, Cl. 360-51.000.

Ido, Nobuyuki. Apparatus for fine tuning strings of a stringed musical instrument. 4,690,027, 9-1-87, Cl. 84-298.000.

Ido, Tadashi: *See—*
  Kubo, Osamu; Nomura, Tdtomu; Ido, Tadashi; and Yokoyama, Hirotaka, 4,636,433, Cl. 428-328.000.
  Yokoyama, Hirotaka; Ido, Tadashi; Maeda, Tatsumi; and Kurosu, Shunji, 4,699,771, Cl. 423-138.000.

Idogaki, Takaharu; Kawai, Hisasi; and Hayashi, Ikuo, to Nippon Soken, Inc. Electric rotary drive apparatus operable in a magnetic cylinder. 4,644,211, 2-17-87, Cl. 310-266.000.

Idogaki, Takaharu; Kawai, Hisasi; Hattori, Kyo; and Sakurai, Kazuhiro, to Nippon Soken, Inc.; and Toyota Jidosha Kabushiki Kaisha. Electromagnetic rotary driving device. 4,647,009, 3-3-87, Cl. 251-129.11.

Idosako, Hidetaka: *See—*
  Sawada, Kouji; Miura, Kiyokatsu; Suzuki, Keiichiro; Idosako, Hidetaka; and Kazusa, Hideo, 4,714,368, Cl. 403-132.000.

Idota, Yoshinori: *See—*
  Sugiyama, Katsuhiko; Kawazoe, Hiromitsu; and Idota, Yoshinori, 4,693,215, Cl. 123-188.00M.

Idota, Yoshio; and Yagihara, Morio, to Fuji Photo Film Co., Ltd. Toners for silver halide diffusion transfer image with sulfo or carboxyl groups. 4,683,189, 7-28-87, Cl. 430-248.000.

Idstein, Paul H. Food storage device. 4,637,580, 1-20-87, Cl. 248-95.000.

Idvorian, Nick; and Renshaw, Robert H., to Foster Wheeler Energy Corporation. Tandem curved arm steam-water separator. 4,713,098, 12-15-87, Cl. 55-345.000.

Idzorek, George C.: *See—*
  Morris, Christopher L.; Idzorek, George C.; and Atencio, Leroy G., 4,654,531, Cl. 250-385.000.

Ieki, Hiroshi, to Mitsubishi Denki Kabushiki Kaisha. Electron gun for a high power klystron. 4,634,925, 1-6-87, Cl. 313-454.000.

Ieki, Kouichi: *See—*
  Iguma, Akira; Okuda, Tadashi; Ieki, Kouichi; and Sasamoto, Toshio, 4,702,555, Cl. 350-247.000.

IEL Limited: *See—*
  Mandal, Arun K.; Jawalkar, Damodar G.; and Mahajan, Satish W., 4,680,418, Cl. 549-305.000.

Ielmini, Angelo, to Patterson Frozen Foods, Inc. Microwave carton. 4,687,104, 8-18-87, Cl. 206-607.000.

Iemura, Shigeru; and Ohigashi, Chiaki, to Mitsushita Graphic Communication Systems, Inc. Device for controlling concentration of a liquid developing machine. 4,671,309, 6-9-87, Cl. 137-93.000.

Ienaga, Kazuharu; and Nakamura, Ko, to Nippon Zoki Pharmaceutical Co., Ltd. Hypoglycemic hydantoin derivatives. 4,647,574, 3-3-87, Cl. 514-390.000.

Ienaga, Kazuharu; Nakamura, Ko; and Ishii, Akira, to Nippon Zoki Pharmaceutical Co., Ltd. Pharmaceutical composition containing an imidazolidinetrione derivative or pharmaceutically acceptable salt thereof. 4,683,240, 7-28-87, Cl. 514-390.000.

Ienaga, Kazuharu; Nakamura, Ko; and Ishii, Akira, to Nippon Zoki Pharmaceutical Co., Ltd. Hypoglycemic oxaluric acid derivatives. 4,708,954, 11-24-87, Cl. 514-183.000.

Ienaga, Kazuharu; and Nakamura, Ko. Acylindole derivatives and their use in pharmaceutical compositions. 4,708,961, 11-24-87, Cl. 514-423.000.

Ieperband N.V.: *See—*
  Koch, Gerhard, 4,660,605, Cl. 139-420.00R.
  Koch, Gerhard, 4,662,487, Cl. 188-371.000.

Ierardi, Joseph A.: *See—*
  Golder, Willis E.; Ierardi, Joseph A.; and Beety, Carl, Jr., 4,644,269, Cl. 324-158.00F.

Ierna, William F., to United States of America, Energy. Cermet insert high voltage holdoff for ceramic/metal vacuum devices. 4,704,557, 11-3-87, Cl. 313-623.000.

Iesaka, Takashi; Wada, Takaaki; Ohta, Ikumi; and Izumi, Masayuki, to Inax Corporation; and Japan Alpha Corporation. Decorative panels comprising replaceable decorative sheets. 4,638,618, 1-27-87, Cl. 52-509.000.

Iesaka, Tsutomu: *See—*
  Ikeda, Hiroshi; and Iesaka, Tsutomu, 4,643,602, Cl. 400-354.000.

Ife, Robert J., to Smith Kline & French Laboratories Limited. Pyridylaminoalkylamine intermediates. 4,652,650, 3-24-87, Cl. 546-289.000.

e, Robert J., to Smith Kline & French Laboratories Limited. 3-(2-pyridylaminoalkylamino)cyclobutenediones and pyridones useful as histamine H_1-antagonists. 4,659,725, 4-21-87, Cl. 514-352.000.

e, Robert J., to Smith Kline & French Laboratories Limited. 3-Pyridylaminoalkyleneamino-4-amino-1,2,5-thiadiazole-1-oxides, composition containing them, and use of them to block histamine h_2-receptors. 4,692,456, 9-8-87, Cl. 514-333.000.

e, Robert J.: *See—*

Brown, Thomas H.; and Ife, Robert J., 4,649,141, Cl. 514-272.000.

Ganellin, Charon R.; Ife, Robert J.; and Owen, David A. A., 4,639,519, Cl. 544-320.000.

Gribble, Andrew D.; and Ife, Robert J., 4,668,671, Cl. 514-211.000.

f, Rene, to Neotecha AG. Plastic lined rotatable valve. 4,696,323, 9-29-87, Cl. 137-375.000.

FM Electronic GmbH: *See—*

Spahn, Hans P., 4,672,230, Cl. 307-116.000.

R, Inc.: *See—*

Selim, Harold N., 4,636,747, Cl. 331-1.00R.

Selim, Harold N., 4,641,101, Cl. 328-25.000.

Selim, Harold N., 4,654,886, Cl. 455-317.000.

gaki, Tetsuo: *See—*

Obitsu, Takeo; Igaki, Tetsuo; Kinoshita, Kimiaki; Nanbu, Morio; and Satoh, Shinichi, 4,680,598, Cl. 503-217.000.

Obitsu, Takeo; Igaki, Tetsuo; Kinoshita, Kimiaki; Nanbu, Morio; and Satoh, Shinichi, 4,687,862, Cl. 549-224.000.

Yahagi, Masakichi; Igaki, Tetsuo; Yosinaka, Sinzi; Morita, Kousaku; Saito, Morikuni; and Kinoshita, Kimiaki, 4,642,357, Cl. 549-226.000.

Yahagi, Masakichi; Igaki, Tetsuo; Yoshinaka, Sinzi; Morita, Kousaku; Saito, Morikuni; and Kinoshita, Kimiaki, 4,665,199, Cl. 549-226.000.

Yahagi, Masakichi; Obitsu, Takeo; Igaki, Tetsuo; Horisawa, Kazuyuki; Nanbu, Morio; Kinoshita, Kimiaki; and Manaka, Sumio, 4,668,967, Cl. 346-221.000.

Yahagi, Masakichi; Horiuchi, Shoichi; Toyama, Takahumi; Kashiwagi, Akio; Suzuki, Teruo; Igaki, Tetsuo; Horisawa, Kazuyuki; and Shoji, Mituhiro, 4,677,203, Cl. 546-15.000.

Yahagi, Masakichi; Igaki, Tetsuo; Yoshinaka, Shinji; Kinoshita, Kimiaki; Saito, Morikuni; Yamashita, Toshiyuki; and Nanbu, Morio, 4,695,640, Cl. 549-226.000.

garashi, Akira; Ikeda, Kensuke; and Ikeda, Kenji, to Fuji Photo Film Co., Ltd. Heat-sensitive recording sheet. 4,646,113, 2-24-87, Cl. 346-209.000.

garashi, Akira: *See—*

Onohara, Masayuki; Kawai, Kenji; Shibata, Masaru; Igarashi, Akira; and Kawaguchi, Nobuhisa, 4,686,124, Cl. 428-35.000.

Satomura, Masato; Igarashi, Akira; and Iwakura, Ken, 4,644,377, Cl. 346-221.000.

Takashima, Masanobu; Satomura, Masato; Iwakura, Ken; and Igarashi, Akira, 4,707,464, Cl. 503-216.000.

garashi, Hatsuhide, to NEC Corporation. Protection circuit utilizing distributed transistors and resistors. 4,656,491, 4-7-87, Cl. 357-23.130.

garashi, Hideo: *See—*

Otsuka, Nobuo; Igarashi, Hideo; and Thompson, Peter, 4,635,445, Cl. 62-158.000.

garashi, Hisashi: *See—*

Kato, Akira; Igarashi, Hisashi; and Umeda, Tadashi, 4,702,211, Cl. 123-421.000.

garashi, Isamu: *See—*

Nakao, Hideo; Fujimoto, Koichi; Ishihara, Sadao; Sugawara, Shinichi; and Igarashi, Isamu, 4,716,158, Cl. 514-202.000.

garashi, Keiichi: *See—*

Yoshimoto, Takeo; Umemoto, Mitsumasa; Igarashi, Keiichi; Kubota, Yutaka; Yamazaki, Hideo; Enomoto, Yuji; and Yanagita, Hirohisa, 4,692,466, Cl. 514-604.000.

garashi, Makoto; Okano, Kiichiro; and Kumagami, Naoki, to Toppan Printing Co., Ltd. Article transfer apparatus. 4,641,742, 2-10-87, Cl. 198-627.000.

garashi, Masaaki; Okada, Yasutaka; Yoshikawa, Kunihiko; and Kudo, Takeo, to Sumitomo Metal Industries, Ltd. Precipitation-hardening nickel-base alloy and method of producing same. 4,652,315, 3-24-87, Cl. 148-12.70R.

garashi, Masahiko: *See—*

Okazaki, Atsushi; Igarashi, Masahiko; and Horie, Tsuneo, 4,712,084, Cl. 338-184.000.

garashi, Masami: *See—*

Kato, Yoshinori; Igarashi, Masami; and Kamijo, Yoshimi, 4,661,373, Cl. 427-66.000.

garashi, Michiko: *See—*

Shimizu, Kimihiro; Nakahara, Tsuguji; Kinoshita, Taketoshi; Takatsuka, Jun; and Igarashi, Michiko, 4,640,835, Cl. 424-94.000.

garashi, Noriyuki: *See—*

Suzuki, Kempei; Iwanaga, Yushi; Sato, Hiroshi; Sato, Kohei; Igarashi, Noriyuki; and Koya, Shinichi, 4,691,831, Cl. 209-573.000.

garashi, Osamu, to Yoshida Kogyo K. K. System for inspecting attached state of slide fastener separable end stop, and inspection apparatus used in said system. 4,671,122, 6-9-87, Cl. 73-865.800.

garashi, Osamu, to Hitachi, Ltd. Vehicle-mounted electronic display gauge board with serial data transfer. 4,713,762, 12-15-87, Cl. 364-424.000.

garashi, Osamu: *See—*

Kugo, Masaru; Igarashi, Osamu; Katogi, Kozo; Ito, Hiroshi; and Nakamura, Mamoru, 4,673,252, Cl. 350 V-339.00F.

Kugo, Masaru; Ouchi, Hideyuki; Katogi, Kouzou; Igarashi, Osamu; Suda, Seiji; Tokuyama, Keiichi; and Yamamura, Hirohisa, 4,708,440, Cl. 350-339.00F.

Masuda, Mitsuhiro; Igarashi, Osamu; Tokuyama, Keiichi; and Katogi, Kozo, 4,649,381, Cl. 340-784.000.

Tokuyama, Keiichi; Masuda, Mitsuhiro; Igarashi, Osamu; and Hasegawa, Taiji, 4,700,303, Cl. 364-424.000.

Igarashi Plier Co., Ltd.: *See—*

Igarashi, Tsutomu, 4,669,340, Cl. 81-416.000.

Igarashi, Ryuji; and Suzuki, Yukio, to Kabushiki Kaisha Toshiba. Compact high-frequency heating apparatus with stepped waveguide. 4,673,783, 6-16-87, Cl. 219-10.55F.

Igarashi, Sadao, to Alps Electric Co., Ltd. Waveguide filter. 4,701,728, 10-20-87, Cl. 333-212.000.

Igarashi, Sadao, to Alps Electric Co., Ltd. Waveguide-microstrip line converter. 4,716,387, 12-29-87, Cl. 333-26.000.

Igarashi, Susumu; and Ito, Norihiko, to Honda Giken Kogyo Kabushiki Kaisha. Vehicle with power unit. 4,650,025, 3-17-87, Cl. 180-227.000.

Igarashi, Tadao: *See—*

Kato, Shinichiro; Chiba, Teruo; and Igarashi, Tadao, 4,646,188, Cl. 360-132.000.

Igarashi, Tadashi; Yamaji, Mikio; and Oneyama, Naotake, to Shoketsu Kinzoku Kogyo Kabushiki Kaisha. Fluid pressure booster. 4,674,958, 6-23-87, Cl. 417-225.000.

Igarashi, Takao: *See—*

Ishikawa, Toshimitsu; Ozawa, Mishihiro; Sakurai, Mikio; Konno, Mutsuo; Aizawa, Yasuhiro; Igarashi, Takao; and Hirakawa, Hiromasa, 4,686,079, Cl. 376-444.000.

Sakurai, Mikio; Nakamura, Shiro; Igarashi, Takao; and Yamauchi, Koki, 4,656,000, Cl. 376-352.000.

Igarashi, Takeshi; Endo, Toshihiko; and Koshi, Isei, to Terumo Kabushiki Kaisha. Medium for lysine decarboxylation test. 4,673,636, 6-16-87, Cl. 435-34.000.

Igarashi, Toshibumi: *See—*

Kimimura, Kyomi; Shimokawa, Wataru; and Igarashi, Toshibumi, 4,647,504, Cl. 428-327.000.

Igarashi, Toshihiko: *See—*

Goto, Motoo; Kono, Hiroshi; Asao, Haruhiko; Miyamoto, Yukio; and Igarashi, Toshihiko, 4,711,433, Cl. 266-222.000.

Igarashi, Toshiji, to Eisai Co., Ltd. Treating and preventing agent for ischemic cardiac disease and arrhythmia. 4,707,477, 11-17-87, Cl. 514-218.000.

Igarashi, Toshiji: *See—*

Minami, Norio; Mathukura, Masayuki; Ueda, Koichiro; Tanaka, Satoru; and Igarashi, Toshiji, 4,650,798, Cl. 514-227.000.

Yamatsu, Isao; Inai, Yuichi; Abe, Shinya; Watanabe, Hideaki; Igarashi, Toshiji; Shiojiri, Hiroyuki; Tanabe, Yoshio; and Hara, Kumiko, 4,639,450, Cl. 514-238.000.

Igarashi, Tsutomu, to Igarashi Plier Co., Ltd. Slip-joint pliers. 4,669,340, 6-2-87, Cl. 81-416.000.

Igarashi, Tsutomu: *See—*

Takeda, Kazuma; and Igarashi, Tsutomu, 4,683,462, Cl. 340-571.000.

Igarashi, Yoshiaki: *See—*

Gotou, Makoto; Mitani, Hiroshi; and Igarashi, Yoshiaki, 4,713,697, Cl. 358-222.000.

Minakuchi, Hiroshi; Kunihira, Tadashi; and Igarashi, Yoshiaki, 4,636,696, Cl. 318-327.000.

Igarashi, Yoshinobu: *See—*

Kido, Hitoshi; Igarashi, Yoshinobu; and Okabe, Junji, 4,660,389, Cl. 62-298.000.

Igarashi, Yoshio, to Kabushiki Kaisha Sankosha. Discharge-type arrester. 4,644,441, 2-17-87, Cl. 361-120.000.

Igarashi, Yoshio: *See—*

Murakami, Shiro; Fujii, Shigeo; Nakao, Masayuki; Igarashi, Yoshio; and Endo, Juro, 4,645,690, Cl. 427-128.000.

Igarashi, Yosuke, to Kabushiki Kaisha Toshiba. Information reading device with driver circuitry separate from sensor board. 4,682,042, 7-21-87, Cl. 250-578.000.

Igarashi, Yosuke, to Kabushiki Kaisha Toshiba. Image information reading device. 4,704,638, 11-3-87, Cl. 358-296.000.

Igarashi, Yousuke: *See—*

Kai, Masanori; Hisabayashi, Satoshi; Homma, Seiichi; and Igarashi, Yousuke, 4,653,008, Cl. 364-471.000.

Igarashi, Yuriko: *See—*

Okada, Yoshio; and Igarashi, Yuriko, 4,640,847, Cl. 427-150.000.

Okada, Yoshio; Ahiko, Nobuo; and Igarashi, Yuriko, 4,654,251, Cl. 428-202.000.

Okada, Yoshio; and Igarashi, Yuriko, 4,670,344, Cl. 428-402.210.

Okada, Yoshio; and Igarashi, Yuriko, 4,677,449, Cl. 503-206.000.

Okada, Yoshio; Ahiko, Nobuo; and Igarashi, Yuriko, 4,696,856, Cl. 428-321.500.

Igarashi, Yutaka, to Kabushiki Kaisha Toshiba. Method for producing printed wiring board with flexible auxiliary board. 4,674,182, 6-23-87, Cl. 29-837.000.

Igarashi, Yutaka: *See—*

Shimura, Takaki; Murakami, Keiichi; Igarashi, Yutaka; Shiba, Akira; Hayashi, Hajime; Miwa, Hirohide; Inoue, Michitoshi; and Matsumoto, Masayuki, 4,655,228, Cl. 128-660.000.

Igari, Kozaburo: *See—*

Suzuki, Akimitsu; Awaji, Toshio; and Igari, Kozaburo, 4,690,257, Cl. 192-3.310.

Igashira, Toshihiko; Sakakibara, Yasuyuki; Abe, Seiko; Takigawa, Masahiro; and Izawa, Akihiro, to Nippon Soken, Inc. Piezoelectric low-pressure fuel injector. 4,635,849, 1-13-87, Cl. 239-102.200.

Igashira, Toshihiko; Tanaka, Taro; and Sakakibara, Yasuyuki, to Nippon Soken, Inc. Fuel injection system for an internal combustion engine. 4,649,886, 3-17-87, Cl. 123-498.000.

Igashira, Toshihiko; Sakakibara, Yasuyuki; Yoshinaga, Toru; and Abe, Seiko, to Nippon Soken, Inc. Pump for supplying pressurized fuel to fuel injector of internal combustion engine. 4,649,887, 3-17-87, Cl. 123-508.000.

Igashira, Toshihiko; Sakakibara, Yasuyuki; Takeuchi, Yasuhiro; Abe, Seiko; and Nohira, Hidetaka, to Nippon Soken, Inc.; and Toyota Jidosha Kabushiki Kaisha. Fuel injection apparatus for internal combustion engine. 4,667,638, 5-26-87, Cl. 123-446.000.

Igashira, Toshihiko: *See—*
- Sakakibara, Yasuyuki; Abe, Seiko; Tomita, Masahiro; Yorita, Hiroshi; Tanaka, Takeshi; and Igashira, Toshihiko, 4,705,003, Cl. 123-449.000.
- Takeuchi, Yasuhiro; Sakakibara, Yasuyuki; Igashira, Toshihiko; and Nohira, Hidetaka, 4,711,216, Cl. 123-447.000.

Igata, Kouichi: *See—*
- Matsumoto, Tokikazu; and Igata, Kouichi, 4,635,137, Cl. 360-10.200.

Igawa, Kazushige: *See—*
- Arika, Junji; Miyazaki, Hiroshi; Igawa, Kazushige; and Itabashi, Keiji, 4,650,654, Cl. 423-328.000.
- Arika, Junji; Igawa, Kazushige; and Itabashi, Keiji, 4,687,653, Cl. 423-329.000.

Igawa, Norio: *See—*
- Tsuji, Eiji; Igawa, Norio; Tabuchi, Hiroshi; and Horiike, Tomoji, 4,676,152, Cl. 99-468.000.

Igawa, Tatsuo: *See—*
- Umeda, Takao; Ooishi, Kazuya; Igawa, Tatsuo; and Hori, Yasuro, 4,712,876, Cl. 350-350.00S.

Igawa, Tetsuo: *See—*
- Motoyama, Hatsuo; and Igawa, Tetsuo, 4,659,999, Cl. 331-2.000.

Igbal, Muhammad, to Stanadyne, Inc. Adjustable stem assembly. 4,662,389, 5-5-87, Cl. 137-359.000.

Igel, Richard, to Webasto-Werk W. Baier GmbH & Co. Vehicle roof installation with a wind deflector. 4,676,546, 6-30-87, Cl. 296-217.000.

Igel, Richard; and Lutz, Alfons, to Webasto-Werk W. Baier GmbH & Co. Sliding and lifting roof with a locking lever. 4,684,169, 8-4-87, Cl. 296-221.000.

Igel, Richard: *See—*
- Schaetzler, Walter; Schleicher, Bernhard; Igel, Richard; and Jardin, Hans, 4,699,421, Cl. 296-221.000.

Igelbuscher, Heinrich: *See—*
- Holter, Heinz; Igelbuscher, Heinrich; Gresch, Heinrich; and Dewert, Heribert, 4,670,234, Cl. 423-235.000.

Igene Biotechnology, Inc.: *See—*
- Blanco, John F., 4,670,251, Cl. 424-465.000.

Iggulden, Jerry R., to INR Technologies, Inc. Wireless audio transmission system. 4,685,133, 8-4-87, Cl. 381-3.000.

Igi, Hisashi; Ohta, Eiichi; Bandai, Yasuhito; and Takagi, Kazuhiko, to Brother Kogyo Kabushiki Kaisha. Printer with an image reader. 4,687,352, 8-18-87, Cl. 400-73.000.

Igi, Hisashi; Yamada, Tomohiro; Higuchi, Tomohisa; Ohta, Eiichi; and Yazawa, Hiroaki, to Brother Kogyo Kabushiki Kaisha. Facsimile-printer apparatus. 4,702,630, 10-27-87, Cl. 400-82.000.

Igi, Keishiro: *See—*
- Endo, Hideki; Hashimoto, Kazuto; Tanaka, Kenji; Matsumoto, Takeshi; Igi, Keishiro; Okamura, Takayuki; Taniguchi, Shunro; Ishii, Masao; Murata, Yoshifumi; and Yokota, Shinichi, 4,657,973, Cl. 525-67.000.
- Ishii, Masao; and Igi, Keishiro, 4,659,615, Cl. 428-220.000.

Igloo Corporation: *See—*
- Decker, Joseph A., Jr.; Fiore, Joseph F., Jr.; and Katz, Stanley A., 4,640,392, Cl. 190-108.000.
- McGowan, Ronald C.; and Pham, Ninh G., 4,696,412, Cl. 220-335.000.

Ignasiak, Martin C., to Minnesota Mining and Manufacturing Company. Test clip for PLCC. 4,671,590, 6-9-87, Cl. 439-266.000.

Ignasiak, Martin C.; Tengler, John N.; and Hartman, John E., to Minnesota Mining and Manufacturing Company. Test clip for PLCC. 4,671,592, 6-9-87, Cl. 439-331.000.

Ignatius, James E.: *See—*
- Rockar, James A.; and Ignatius, James E., 4,683,693, Cl. 52-198.000.

Ignatius, Mark J.: *See—*
- Locke, Philip F., Jr.; and Ignatius, Mark J., 4,716,519, Cl. 364-186.000.
- Locke, Philip F., Jr.; and Ignatius, Mark J., 4,716,520, Cl. 364-186.000.

Igota, Shoji: *See—*
- Sasaki, Hitoshi; and Igota, Shoji, 4,642,252, Cl. 428-35.000.
- Sasaki, Hitoshi; and Igota, Shoji, 4,684,553, Cl. 428-35.000.

IGR Enterprises: *See—*
- Gordon, Arnold Z., 4,659,448, Cl. 204-277.000.

IGT: *See—*
- Dickinson, Peter D.; and Luciano, Robert A., 4,635,937, Cl. 273-143.00R.
- Dickinson, Peter D.; and Bertram, William, 4,660,833, Cl. 273-143.00R.
- Koester, Harold E., 4,650,057, Cl. 194-346.000.

Iguchi, Eiko: *See—*
- Kitaura, Yoshihiko; Nakaguchi, Osamu; Hemmi, Keiji; Aratani, Matsuhiko; Takeno, Hidekazu; Okada, Satoshi; Tanaka, Hirokazu; Hashimoto, Masashi; Kuroda, Yoshio; Iguchi, Eiko; Kohsaka, Masanobu; Aoki, Hatsuo; and Imanaka, Hiroshi, 4,666,890, Cl. 514-18.000.

Iguchi, Katsuhiko; Nitta, Satoru; Wada, Hidemi; and Sano, Takayoshi, to Toshiba Kikai Kabushiki Kaisha. T-dies adapted for extrusion molding. 4,704,083, 11-3-87, Cl. 425-466.000.

Iguchi, Keisuke; and Ebato, Seigo, to Mitsubishi Paper Mills, Ltd. Novel silver halide crystal and process for production of same. 4,710,455, 12-1-87, Cl. 430-567.000.

Iguchi, Masashi: *See—*
- Sawada, Tadashi; Ikegami, Tatsuji; and Iguchi, Masashi, 4,708,594, Cl. 415-72.000.

Iguchi, Shigeki: *See—*
- Inoue, Tomohiro; Tsugei, Shinji; and Iguchi, Shigeki, 4,715,010, Cl. 364-705.000.
- Tsugei, Shinji; and Iguchi, Shigeki, 4,656,317, Cl. 178-18.000.

Iguchi, Takeshi: *See—*
- Kamiya, Hiroshi; Iguchi, Takeshi; and Fukumi, Shigenobu, 4,705,206, Cl. 228-183.000.

Iguchi, Yoji: *See—*
- Nagasaki, Haruki; Kitamura, Masami; and Iguchi, Yoji, 4,649,642, Cl. 30-34.100.

Iguchi, Yukinobu; Murakami, Kanemitsu; and Kikuchi, [illegible], to Sony Corporation. Electron gun for a color display apparatus. 4,703,223, 10-27-87, Cl. 313-414.000.

Iguma, Akira; and Okuda, Tadashi, to Hitachi, Ltd. Optical system drive for optical recording/reproducing apparatus. 4,669,823, 6-2-87, Cl. 380-255.000.

Iguma, Akira; Okuda, Tadashi; Ieki, Kouichi; and Sasamoto, Toshio, to Hitachi, Ltd. Optical system drive for optical recording/reproducing apparatus. 4,702,555, 10-27-87, Cl. 350-247.000.

Igusa, Kazuo: *See—*
- Ishihara, Kouji; Igusa, Kazuo; and Ogasawara, Toshichika, 4,668,665, Cl. 514-53.000.

Igusa, Masaru; and Nakai, Masayoshi, to Sanden Corporation. Coffee roaster. 4,683,666, 8-4-87, Cl. 34-67.000.

Iha, Kiyoshi; and Henry, Susanne, to Chamberlain Manufacturing Corporation. Garage door opener. 4,653,565, 3-31-87, Cl. 160-193.000.

Iha, Yukihiro: *See—*
- Umemura, Toshikazu; Masumoto, Isamu; and Iha, Yukihiro, 4,681,927, Cl. 528-232.000.

Ihama, Mikio; Tani, Tadaaki; and Ohnishi, Hiroshi, to Fuji Photo Film Co., Ltd. Process for producing silver halide photographic emulsion. 4,683,193, 7-28-87, Cl. 430-570.000.

Ihama, Mikio; and Tani, Tadaaki, to Fuji Photo Film Co., Ltd. Method for manufacturing a silver halide emulsion. 4,693,965, 9-15-87, Cl. 430-569.000.

Ihana, Toshio: *See—*
- Inoue, Kazuhiko; Kawasaki, Tsutomu; and Ihana, Toshio, 4,709,281, Cl. 360-97.000.
- Tsuchiya, Isamu; and Ihana, Toshio, 4,665,454, Cl. 360-97.000.

Ihara Chemical Industry Co., Ltd.: *See—*
- Morinaga, Michio; Ikeda, Akira; and Shinohara, Akira, 4,673,749, Cl. 548-490.000.
- Motojima, Kenji; Miyazawa, Takeshige; Toyokawa, Yasufumi; Matsuzawa, Masafumi; Hokari, Hiroshi; and Kusano, Shoji, 4,678,496, Cl. 71-76.000.
- Takematsu, Tetsuo; Konnai, Makoto; Shimizu, Kuniaki; Urushibata, Ikumi; and Kajiwara, Ikuo, 4,659,371, Cl. 71-103.000.

Ihara, Hirokazu: *See—*
- Mori, Kinji; Miyamoto, Shoji; and Ihara, Hirokazu, 4,672,373, Cl. 340-825.050.
- Mori, Kinji; Miyamoto, Shoji; and Ihara, Hirokazu, 4,698,629, Cl. 340-825.050.
- Yabushita, Masaharu; Nohmi, Makoto; Fujikura, Nobuyuki; Miyamoto, Shoji; and Ihara, Hirokazu, 4,641,237, Cl. 364-200.000.

Ihara, Keiichi, to TDK Corporation. Apparatus for automatically mounting special-type chips on substrate. 4,677,745, 7-7-87, Cl. 29-741.000.

Ihara, Keisuke: *See—*
- Alaki, Yasuhide; Ohtake, Masayuki; and Ihara, Keisuke, 4,681,323, Cl. 273-232.000.

Ihara, Kiyohiko; and Nakagawa, Tsuneo, to Daikin Industries Ltd. Ethylene/tetrafluoroethylene copolymer. 4,677,175, 6-30-87, Cl. 526-254.000.

Ihara, Tatsuya: *See—*
- Hatano, Masakatsu; Oshima, Kazunori; Ihara, Tatsuya; and Kiyono, Kenichi, 4,711,867, Cl. 502-205.000.

IHC Holland N.V.: *See—*
- Arentsen, Dik, 4,701,077, Cl. 405-232.000.
- Kurvers, Hedwigus A. M. H.; and Bras, Adrianus, 4,646,450, Cl. 37-72.000.
- Langejan, Hendrik, 4,644,888, Cl. 114-27.000.

Ihikawa, Junji: *See—*
- Sawada, Takamasa; and Ihikawa, Junji, 4,685,793, Cl. 355-3.0SH.

Ihle, Robert D.: *See—*
- Voy, Peter A.; and Ihle, Robert D., 4,661,189, Cl. 156-248.000.

Ihlein, Walter; and Rogler, Wolfgang, to Siemens Aktiengesellschaft. Heat-hardening reaction resin mixture for impregnating insulation of electrical equipment and for the manufacture of molding materials with and without inserts. 4,636,556, 1-13-87, Cl. 528-53.000.

Ihlenburg, Frederick. Reduced torsion resistance athletic shoe sole. 4,689,901, 9-1-87, Cl. 36-126.000.

Ihlenburg, Rainer; Baitz, Guenter; and Nixdorf, Heinz, to Nixdorf Computer AG. Carrier arrangement for magnetic heads of magnetic disk drive assembly. 4,698,709, 10-6-87, Cl. 360-104.000.

Ihlenfeld, William, III, to Creative Medical Systems, Inc. Cardiac ambulatory monitor. 4,667,682, 5-26-87, Cl. 128-711.000.

Ihlenfield, Harry; and Warsack, George, to GlowCore Corporation. Gas burner. 4,657,506, 4-14-87, Cl. 431-329.000.

hnat, Dale E.: *See*—

Gilby, Anthony C.; and Ihnat, Dale E., 4,713,540, Cl. 250-231.00R.

i, Akira: *See*—

Okano, Hiroshi; Kawai, Yukio; and Ii, Akira, 4,644,784, Cl. 73-117.300.

i, Hiroshi: *See*—

Yasuda, Syuhei; Ii, Hiroshi; and Sasada, Taizo, 4,700,241, Cl. 360-51.000.

ida, Akinori: *See*—

Fujiwara, Kenichi; Asano, Hideo; Hasada, Eiichi; Makida, Kazuhisa; and Iida, Akinori, 4,637,222, Cl. 62-244.000.

ida, Atsuko: *See*—

Yoshihara, Kunio; Sudo, Toshio; Iida, Atsuko; Miyagi, Takeshi; Saito, Tamio; and Oe, Shigeyuki, 4,644,093, Cl. 174-36.000.

ida, Hideyo; Mishuku, Toshio; and Shiba, Nobuyasu, to Taiyo Yuden Kabushiki Kaisha. Amorphous silicon solar battery. 4,675,469, 6-23-87, Cl. 136-259.000.

ida, Hideyo: *See*—

Hayashi, Yutaka; Iida, Hideyo; and Mishuku, Toshio, 4,644,091, Cl. 136-259.000.

Hayashi, Yutaka; Itoh, Atsuo; and Iida, Hideyo, 4,649,857, Cl. 118-326.000.

Hayashi, Yutaka; Mishuku, Toshio; Yamanaka, Mitsuyuki; and Iida, Hideyo, 4,694,116, Cl. 136-256.000.

ida, Hiroshi; Azuma, Kunihiro; and Hayashi, Masahiko, to Toray Industries Incorporated. Method for producing polybutylene terephthalate. 4,656,241, 4-7-87, Cl. 528-279.000.

ida, Hiroshi: *See*—

Takahashi, Susumu; and Iida, Hiroshi, 4,716,590, Cl. 381-15.000.

ida, Hiroyuki; Murakami, Haruhiko; Matsumoto, Tsuyoshi; and Kashihara, Junzo, to Sharp Kabushiki Kaisha. Foldable weighing scale. 4,711,313, 12-8-87, Cl. 177-127.000.

ida, Hitoshi; and Nakayama, Ryoichi, to Kabushiki Kaisha Toshiba. Apparatus for moving carriages along ladders. 4,637,494, 1-20-87, Cl. 87-10.000.

ida, Katsumi, to Diesel Kiki Kabushiki Kaisha. Automotive air-conditioning system. 4,688,389, 8-25-87, Cl. 62-127.000.

ida, Katsumi, to Diesel Kiki Kabushiki Kaisha. Automotive air-conditioning system adapted to obviate the influence of insolation during blower start-up. 4,690,203, 9-1-87, Cl. 165-25.000.

ida, Katumi, to Diesel Kiki Co., Ltd. Automotive air-conditioning apparatus with demist control. 4,685,508, 8-11-87, Cl. 165-17.000.

ida, Kazumasa: *See*—

Danno, Yoshiaki; Takahashi, Akira; and Iida, Kazumasa, 4,705,001, Cl. 123-417.000.

ida, Kazumi; Ohata, Yosuke; Hyodo, Keiichiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, to Mita Industrial Co., Ltd. Electrostatic copying apparatus. 4,636,057, 1-13-87, Cl. 355-3.00R.

ida, Kazumi; Ohata, Yosuke; Hyodo, Keiichiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, to Mita Industrial Co., Ltd. Electrostatic copying apparatus. 4,666,283, 5-19-87, Cl. 355-3.0DD.

ida, Kazumi; Ohata, Yosuke; Hyodo, Keiichiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, to Mita Industrial Co., Ltd. Electrostatic copying apparatus. 4,666,285, 5-19-87, Cl. 355-8.000.

ida, Kazumi; Ohata, Yosuke; Hyodo, Keiichiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, to Mita Industrial Co. Ltd. Electrostatic copying apparatus. 4,714,338, 12-22-87, Cl. 355-3.0FU.

ida, Kazuyoshi: *See*—

Mizuno, Keiichiro; Iida, Kazuyoshi; and Murakami, Kazutomo, 4,635,501, Cl. 74-574.000.

ida, Kiyomi: *See*—

Otsuka, Yukio; Kawai, Hiroshi; Iida, Kiyomi; and Nakano, Hironobu, 4,671,338, Cl. 164-150.000.

ida, Koujirou; Yoshioka, Yasuo; Ogawa, Hiroshi; Haruno, Kiyoshi; and Ohigashi, Tsugio, to Matsushita Electric Industrial Co., Ltd. Bill receiving/dispensing apparatus. 4,682,768, 7-28-87, Cl. 271-3.100.

ida, Kozo; Nagano, Tsuneo; Yokoyama, Naruo; Obayashi, Yoshiaki; and Mitsuoka, Shigeaki, to Mitsubishi Jukogyo Kabushiki Kaisha. Method for recovering denitrating catalyst for ammonia catalytic reduction. 4,656,147, 4-7-87, Cl. 502-26.000.

ida, Masami: *See*—

Taki, Masaru; Okada, Hiroshi; Kawamura, Seijiro; Kusumoto, Akio; Morita, Koji; Ikenaga, Takao; Shigematsu, Toshifumi; and Iida, Masami, 4,692,951, Cl. 4-664.000.

ida, Masamichi: *See*—

Fujitomi, Tetsuo; Iida, Masamichi; and Kato, Kiminobu, 4,674,277, Cl. 60-293.000.

ida, Motoyori. Spout for liquid container. 4,664,295, 5-12-87, Cl. 222-109.000.

ida, Muneo; Simizu, Jyosei; Suzuki, Masami; Okamoto, Nobuyuki; Kazama, Toshinori; Honda, Masanobu; Mochida, Jiro; Tada, Seiji; and Fuju, Masayuki, to Hitachi, Ltd. Magnetic disk storage device with shroud enclosing disk assembly. 4,660,110, 4-21-87, Cl. 360-98.000.

ida, Naohiro, to Nippon Sheet Glass Co., Ltd. Apparatus for shaping glass sheet. 4,711,654, 12-8-87, Cl. 65-172.000.

ida, Naohiro: *See*—

Kitaya, Katsuhiko; Iida, Naohiro; Miyake, Atsushi; Kobayashi, Mitsuo; and Shirai, Akira, 4,685,180, Cl. 29-33.00R.

ida, Noboru: *See*—

Ishikawa, Katsutoshi; Shimotori, Hitoshi; Iida, Noboru; Ozawa, Shuji; and Inami, Shunichi, 4,652,569, Cl. 514-269.000.

Takada, Masaru; Shiraishi, Kazuhiro; and Iida, Noboru, 4,663,107, Cl. 264-519.000.

Iida, Norikazu; Fukumoto, Ryoichi; and Mori, Keiji, to Aisin Seiki Kabushiki Kaisha. Device for adjusting the angular position of one member relative to another. 4,699,024, 10-13-87, Cl. 74-805.000.

Iida, Norikazu: *See*—

Nakamura, Junji; Iida, Norikazu; and Ogino, Nobukuni, 4,644,446, Cl. 361-433.000.

Iida, Sachihiro, to Kawasaki Steel Corporation. Method of cooling steel strip in continuous heat treating line. 4,713,125, 12-15-87, Cl. 148-128.000.

Iida, Sachihiro: *See*—

Yanagi, Kenichi; Makihara, Katsumi; Fukushima, Takeo; Hashimoto, Osamu; and Iida, Sachihiro, 4,644,667, Cl. 34-54.000.

Iida, Shigeki: *See*—

Orii, Shingo; Hara, Hajime; Satoh, Tetsuo; Toya, Tomohiro; and Iida, Shigeki, 4,652,626, Cl. 528-194.000.

Toya, Tomohiro; Hara, Hajime; Iida, Shigeki; and Satoh, Tetsuo, 4,698,397, Cl. 525-437.000.

Iida, Shinobu: *See*—

Yamaguchi, Nobutaka; Iida, Shinobu; Nasu, Norio; Ryoke, Katsumi; Okutu, Toshimitu; and Masuyama, Kenichi, 4,647,501, Cl. 428-323.000.

Yamaguchi, Nobutaka; Iida, Shinobu; Utsumi, Masahiro; Nasu, Norio; and Tadokoro, Eiichi, 4,663,217, Cl. 428-212.000.

Iida, Takafumi: *See*—

Kurono, Masayasu; Iida, Takafumi; Hayashi, Katsuhiro; and Yagi, Kunio, 4,656,303, Cl. 558-354.000.

Iida, Takeo: *See*—

Yoshida, Shoji; Haru, Yasuhiko; Kosaka, Etsuji; Ikeda, Toshimichi; Aoyama, Mikio; and Iida, Takeo, 4,691,788, Cl. 175-62.000.

Iida, Taketoshi, to Kabushiki Kaisha Toshiba. Ultrasonic scanning apparatus. 4,663,973, 5-12-87, Cl. 73-626.000.

Iida, Taketoshi: *See*—

Saito, Kazuyoshi; Iida, Taketoshi; Shirasaka, Toshio; and Takemura, Yasuhiko, 4,665,924, Cl. 128-660.000.

Iida, Tetsuo: *See*—

Odo, Satoshi; Iida, Tetsuo; Abe, Atsushi; and Tsuchida, Makoto, 4,702,201, Cl. 123-2.000.

Tsukamoto, Teisuke; Morohoshi, Shinichi; Iida, Tetsuo; Kishizawa, Yuji; Kato, Shoichi; Suzuki, Toshio; and Ebihara, Toshio, 4,698,975, Cl. 60-721.000.

Iida, Tetsuya; and Ikarashi, Takayoshi, to Kabushiki Kaisha Toshiba. Synchronous binary counter. 4,679,216, 7-7-87, Cl. 377-116.000.

Iida, Tetsuya: *See*—

Sanoda, Masayuki; Tanaka, Fuminari; and Iida, Tetsuya, 4,701,877, Cl. 364-784.000.

Iida, Toshihide: *See*—

Komori, Shigehiro; Sakamaki, Hisashi; Hattori, Hiroyuki; Iida, Toshihide; Miyamoto, Koichi; and Umezawa, Kazumi, 4,662,740, Cl. 355-3.0SH.

Iida, Yasuhiro: *See*—

Imakoshi, Shigeyoshi; Soda, Yutaka; Suyama, Hideo; and Iida, Yasuhiro, 4,679,107, Cl. 360-113.000.

Imakoshi, Shigeyoshi; Suyama, Hideo; Soda, Yutaka; Fukuyama, Munekatsu; and Iida, Yasuhiro, 4,703,378, Cl. 360-113.000.

Souda, Yutaka; Imakoshi, Shigeyoshi; Suyama, Hideo; Uchida, Hiroyuki; Iida, Yasuhiro; and Sekiya, Tetsuo, 4,673,998, Cl. 360-113.000.

Iida, Yasuo: *See*—

Tanigaki, Katsumi; and Iida, Yasuo, 4,690,882, Cl. 430-192.000.

Iida, Yoshiaki; and Iwamoto, Katsuo, to Kawasaki Steel Corporation. Method for producing grain-oriented silicon steel sheets. 4,642,141, 2-10-87, Cl. 148-113.000.

Iida, Yoshiaki: *See*—

Nishiike, Ujihiro; Komatsubara, Michiro; Iida, Yoshiaki; and Matoba, Isao, 4,655,854, Cl. 148-111.000.

Iida, Yoshihiko: *See*—

Kikuma, Toshio; Matsumoto, Hiromi; Tagawa, Masayoshi; Kajiwara, Toshiyuki; Kimura, Tomoaki; Iida, Yoshihiko; and Yoshimoto, Kenichi, 4,700,312, Cl. 364-472.000.

Iida, Yoshikazu; and Takahata, Hisatoshi, to Nippon Kogaku K. K. Driving device for illuminating lamp of flash apparatus. 4,652,108, 3-24-87, Cl. 354-415.000.

Iida, Yoshikazu; and Ishizuki, Kenji, to Nippon Kogaku K. K. Exposure control device for camera. 4,685,786, 8-11-87, Cl. 354-21.000.

Iida, Yoshimichi: *See*—

Hosokawa, Hidehiro; Iida, Yoshimichi; and Takahashi, Hisatsugu, 4,641,500, Cl. 62-70.000.

Iida, Yoshiya: *See*—

Sata, Toshikatsu; Katsube, Teruaki; and Iida, Yoshiya, 4,715,691, Cl. 350-357.000.

Iida, Yuji, to Tokyo Electric Co., Ltd. Electronic cash register and method for defining print characters. 4,680,707, 7-14-87, Cl. 364-405.000.

Iidaka, Yoshiaki: *See*—

Shirai, Shoji; Noda, Fumio; Iidaka, Yoshiaki; Yamauchi, Masaaki; and Fukushima, Masakazu, 4,672,261, Cl. 313-414.000.

Iigima, Kouta, to Alps Electric Co., Ltd. Oscillator. 4,639,691, 1-27-87, Cl. 331-99.000.

Iijima, Akemi: *See*—

Nakamura, Hitoshi; Shiiki, Kasuo; Yuito, Isamu; Shiroishi, Yoshihiro; Fujiwara, Hideo; Shinagawa, Kiminari; and Iijima, Akemi, 4,636,897, Cl. 360-119.000.

Iijima, Akira: *See*—

Furuichi, Akira; and Iijima, Akira, 4,637,555, Cl. 241-46.020.

- Iijima, Eiji: *See—*
  - Eguchi, Yasuteru; Yorozu, Hidenori; and Iijima, Eiji, 4,650,667, Cl. 424-44.000.
- Iijima, Hideaki: *See—*
  - Matsumoto, Fumio; Nakauchi, Kenji; and Iijima, Hideaki, 4,666,307, Cl. 356-404.000.
- Iijima, Hideto: *See—*
  - Yakuwa, Masahiko; and Iijima, Hideto, 4,644,917, Cl. 123-414.000.
- Iijima, Hitoshi; Tanaka, Naoki; and Ikeuchi, Masaki, to Mitsubishi Denki Kabushiki Kaisha. Heat pump system. 4,671,075, 6-9-87, Cl. 62-196.100.
- Iijima, Hitoshi; and Hama, Hiroaki, to Mitsubishi Denki Kabushiki Kaisha. Refrigerating cycle apparatus. 4,672,822, 6-16-87, Cl. 62-468.000.
- Iijima, Hitoshi: *See—*
  - Umemura, Hiroyuki; Matsuda, Kenji; Tezuka, Tomofumi; Isono, Kazuaki; Ishioka, Hidenori; Matsuoka, Fumio; and Iijima, Hitoshi, 4,709,554, Cl. 62-156.000.
- Iijima, Ikuo; Homma, Koichi; Saiga, Yutaka; Matsuoka, Yuzo; and Matsumoto, Mamoru, to Tanabe Seiysku Co., Ltd. 3-(1,3-dithiol-2-ylidene)-2,4-dioxopyrrolidines, -piperidines, and -hexahydroazepines and use thereof against hepatic diseases. 4,663,319, 5-5-87, Cl. 514-212.000.
- Iijima, Kenzaburo; and Hayashi, Yoshinori, to Nippon Gakki Seizo Kabushiki Kaisha. Method for producing a magnet with radial magnetic anisotropy. 4,715,904, 12-29-87, Cl. 148-102.000.
- Iijima, Kenzaburou; and Hayashi, Yoshinori, to Nippon Gakki Seizo Kabushiki Kaisha. Method for producing a shadow mask for a color cathode ray tube. 4,683,013, 7-28-87, Cl. 148-102.000.
- Iijima, Kouta; and Tanemura, Takeshi, to Alps Electric Co., Ltd. High frequency oscillator using a diode for frequency switching and FM modulation. 4,660,002, 4-21-87, Cl. 332-16.00T.
- Iijima, Nobuo: *See—*
  - Nagashima, Masayasu; and Iijima, Nobuo, 4,690,591, Cl. 406-88.000.
- Iijima, Shigeharu: *See—*
  - Kamio, Masaru; Iijima, Shigeharu; Yoshihara, Satoshi; and Ogura, Yasutsugu, 4,661,191, Cl. 156-275.500.
  - Takano, Katsuhiko; Yoshihara, Satoshi; Iijima, Shigeharu; Sasamori, Eizo; Matsushima, Masaaki; and Kishi, Hiroyoshi, 4,710,418, Cl. 428-192.000.
- Iijima, Shiro: *See—*
  - Takeda, Yukio; Iijima, Shiro; Higuchi, Shinsuke; Ohura, Masaki; and Nagaike, Sadanori, 4,639,803, Cl. 360-103.000.
- Iijima, Susumu: *See—*
  - Kato, Yasuyuki; Yuyama, Masahiro; Moritani, Masahiko; and Iijima, Susumu, 4,661,571, Cl. 526-216.000.
- Iijima, Takashi: *See—*
  - Yamaura, Junichi; Toyoguchi, Yoshinori; Matsui, Tooru; and Iijima, Takashi, 4,658,498, Cl. 29-623.100.
  - Yoshinori, Toyoguchi; Yamaura, Junichi; Matsui, Tooru; and Iijima, Takashi, 4,683,182, Cl. 429-194.000.
- Iijima, Takeo; Nomura, Hiroshi; Saito, Susumu; and Echizen, Susumu, to Diesel Kiki Co., Ltd. Compressor having pulsating reducing mechanism. 4,690,619, 9-1-87, Cl. 417-269.000.
- Iijima, Takeo, to Diesel Kiki Co., Ltd. Swash-plate type rotary compressor with drive shaft, lubrication. 4,701,110, 10-20-87, Cl. 417-269.000.
- Iijima, Takeo; Nomura, Hiroshi; Saito, Susumu; and Echizen, Susumu, to Diesel Kiki Co., Ltd. Compressor having pulsating reducing mechanism. 4,715,790, 12-29-87, Cl. 417-269.000.
- Iijima, Takeshi: *See—*
  - Mino, Hisashi; Yabe, Norio; and Iijima, Takeshi, 4,670,371, Cl. 430-143.000.
- Iijima, Tetsuo: *See—*
  - Yoshida, Isao; Okabe, Takeaki; Ito, Mitsuo; Ashikawa, Kazutoshi; and Iijima, Tetsuo, 4,688,323, Cl. 437-29.000.
- Iijima, Toshifumi; Kumashiro, Kenji; Kashiwagi, Hiroshi; Hatta, Koichi; Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; and Shinozaki, Kaoru, to Konishiroku Photo Industry Co., Ltd. Silver halide color photographic material containing a magenta coupler. 4,665,015, 5-12-87, Cl. 430-558.000.
- Iijima, Toshifumi; Yamada, Yoshitaka; Kumashiro, Kenji; Kamio, Takashi; and Shimura, Shinya, to Konishiroku Photo Industry Co., Ltd. Silver halide color photographic material of high sensitivity and improved granularity. 4,701,404, 10-20-87, Cl. 430-559.000.
- Iijima, Toshifumi: *See—*
  - Kumashiro, Kenji; Iijima, Toshifumi; Akamatsu, Hideo; and Matsuzaka, Syoji, 4,692,400, Cl. 430-553.000.
- Iijima, Toshijumi: *See—*
  - Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; Iijima, Toshijumi; Kumashiro, Kenji; Kashiwagi, Hiroshi; Hatta, Koichi; Uchida, Takashi; Wada, Hajime; Ishii, Fumio; Matsunaga, Satoshi; Matsubara, Yasuko; and Shinozaki, Kaoru, 4,695,533, Cl. 430-558.000.
- Iijima, Toshiyuki: *See—*
  - Kazama, Toyoki; Aizawa, Koichi; Yamaguchi, Kiyoto; Hara, Kenichi; and Iijima, Toshiyuki, 4,675,265, Cl. 430-67.000.
- Iijima, Yoshimi: *See—*
  - Sato, Kazuhiro; Iijima, Yoshimi; and Mori, Hiroyoshi, 4,670,874, Cl. 370-110.100.
- Iijima, Yoshio, to Daido Metal Company Ltd. Composite sliding structure for piston body. 4,688,808, 8-25-87, Cl. 277-223.000.
- Iijima, Yoshitaka, to Nissan Motor Co., Ltd. Automotive suspension system with vehicle height control. 4,647,069, 3-3-87, Cl. 280-707.000.
- Iijima, Yoshitaka; and Noguchi, Hiroshi, to Nissan Motor Co., Ltd. Rear independent suspension for automotive vehicle. 4,70 11-17-87, Cl. 280-701.000.
- Iimori, Takamasa: *See—*
  - Shibasaki, Masakatsu; and Iimori, Takamasa, 4,709,064, Cl. 556-418.000.
- Iimura, Izumi: *See—*
  - Sawayama, Takeo; Iimura, Izumi; and Miyazaki, Hisaya, 4,65 Cl. 376-451.000.
- Iimura, Kyosuke; and Maruyama, Kiyoshi. Retractable door structu 4,641,896, 2-10-87, Cl. 312-110.000.
- Iimura, Kyosuke. Magnet catcher for doors. 4,702,506, 10-27-87, Cl. 292-251.500.
- Iimura, Seiji; Abe, Yoshio; Okumura, Jun; Naito, Takayuki; and Kamachi, Hajime, to Bristol-Myers Company. 3-(substituted)propenyl-2-aminothiazol-ylcephalosporanic acids and esters thereof. 4,708,9 11-24-87, Cl. 514-202.000.
- Iimura, Tsutomu: *See—*
  - Endo, Juro; Murakami, Shiro; Fujii, Shigeo; Nakao, Masayuki; and Iimura, Tsutomu, 4,663,193, Cl. 427-129.000.
  - Kawanishi, Tsuneaki; Mori, Yasuki; Noguchi, Koji; and Iimura, Tsutomu, 4,640,880, Cl. 430-106.600.
- Iino, Akira: *See—*
  - Kawazoe, Hideyo; Iino, Akira; and Orimo, Katsumi, 4,707,17 Cl. 65-3.120.
  - Yoshino, Shigeru; Ueki, Junzo; Shibuya, Ichiro; Kawada, Shige Iino, Akira; Tanzaki, Hiromasa; and Murano, Kazuo, 4,670,9 Cl. 29-838.000.
- Iino, Kimio: *See—*
  - Miyadera, Tetsuo; Sugimura, Yukio; Tanaka, Teruo; Hashimoto, Toshihiko; Iino, Kimio; and Sugawara, Shinichi, 4,639,441, Cl. 514-195.000.
- Iino, Shuji: *See—*
  - Mizuno, Hiroshi; Iino, Shuji; Osawa, Izumi; and Doi, Isa 4,659,639, Cl. 430-65.000.
  - Tanigami, Yukio; Iino, Shuji; and Nakamura, Mitsutoshi, 4,642,27 Cl. 430-66.000.
  - Tanigami, Yukio; Iino, Shuji; and Nakamura, Mitsutoshi, 4,642,27 Cl. 430-66.000.
- Iino, Tadashi; Nagashima, Yoshikazu; and Sugita, Masaya, to Yazaki Corporation. Display system for vehicle. 4,711,544, 12-8-87, Cl. 353-14.000.
- Iino, Tomohiko: *See—*
  - Kawamata, Yuuji; Iino, Tomohiko; Suzuki, Ryoichi; and Higa Noriyuki, 4,695,481, Cl. 427-96.000.
- Iinuma, Hironobu: *See—*
  - Umezawa, Hamao; Takeuchi, Tomio; Kondo, Shinichi; Iinuma, Hironobu; Ikeda, Daishiro; Nakamura, Teraya; and Fujii, Aki 4,658,058, Cl. 564-159.000.
  - Umezawa, Hamao; Takeuchi, Tomio; Hamada, Masa; Naganawa, Hiroshi; Sawa, Tsutomu; Imoto, Masaya; Iinuma, Hironobu; Uchida, Takeshi; and Isshiki, Kunio, 4,686,308, Cl. 564-219.000.
- Iinuma, Hiroshi; Sakaguchi, Shuichi; and Suzuki, Takashi, to Panafacom Limited; and Matsushita Electric Industrial Co., Ltd. Floppy disk unit. 4,644,419, 2-17-87, Cl. 360-46.000.
- Iinuma, Kazuhiro, to Kabushiki Kaisha Toshiba. System and method for measuring sound velocity of tissue in an object being investigated. 4,653,505, 3-31-87, Cl. 128-660.000.
- Iinuma, Kazuhiro, to Kabushiki Kaisha Toshiba. Ultrasonic method and apparatus for tissue characterization and imaging nonlinear parameter. 4,664,123, 5-12-87, Cl. 128-660.000.
- Iinuma, Kazuhiro: *See—*
  - Nishiki, Masayuki; and Iinuma, Kazuhiro, 4,689,487, Cl. 25 361.00R.
- Iinuma, Yoshio, to Citizen Watch Co., Ltd. Connecting structure for a display device. 4,688,074, 8-18-87, Cl. 357-79.000.
- Iinuma, Yoshio: *See—*
  - Watanabe, Haruo; Tajima, Eiichi; Matsunaga, Masaaki; Hirohara, Toshihide; Iinuma, Yoshio; Ando, Naotake; Takahashi, Shigeyuki; and Takahashi, Teruaki, 4,643,526, Cl. 350-332.000.
- Iio, Akira: *See—*
  - Minamizaki, Yoshihiro; Miki, Yoshio; Yamamoto, Takayuki; Iio, Akira; and Sakagami, Toshinori, 4,699,938, Cl. 524-271.000.
- Iio, Masaya, to Mitsubishi Denki Kabushiki Kaisha. Semiconductor integrated circuit device. 4,712,152, 12-8-87, Cl. 361-56.000.
- Iio, Shigeyoshi: *See—*
  - Nishibayashi, Hideyuki; Iio, Shigeyoshi; Watanabe, Fumio; and Goto, Takakiyo, 4,709,090, Cl. 562-537.000.
- Iio, Tsukasa: *See—*
  - Fujii, Hiroshi; Iio, Tsukasa; Genba, Yasusi; Moriwaki, Hideaki; and Mochizuki, Yoshinori, 4,716,265, Cl. 200-144.00R.
- Iio, Tukasa; and Egusa, Sumio, to Mitsubishi Denki Kabushiki Kaisha. Terminal assembly for a panel board. 4,700,271, 10-13-87, Cl. 361-355.000.
- Iioka, Michihiro: *See—*
  - Yamada, Hiroshi; Iioka, Michihiro; Sugano, Akira; Takita, Atsushi; Nigawara, Seiitsu; and Fukai, Masayuki, 4,707,778, Cl. 364-132.000.
- Iisaka, Katsuyoshi: *See—*
  - Mitani, Tetsuo; Baba, Fumiaki; and Iisaka, Katsuyoshi, 4,687,80 Cl. 524-104.000.
- Iiskola, Eero: *See—*
  - Venalainen, Tapani; Pakkanen, Tapani; Pakkanen, Tuula; and Iiskola, Eero, 4,699,775, Cl. 423-655.000.

, Eero I.: *See—*
ofgren, Barbro U.; Luciani, Luciano; Seppanen, Hanneli; Stjern-
berg, Maria H.; and Iiskola, Eero I., 4,673,661, Cl. 502-111.000.
esearch Institute: *See—*
idges, Jack E.; Taflove, Allen; and Sresty, Guggilam C.,
4,645,004, Cl. 166-248.000.
idges, Jack E.; Dev, Harsh; Snow, Richard H.; and Taflove,
Allen, 4,670,634, Cl. 219-10.410.
aman, Frederic D.; Rajagopal, Srinivasan; and Altergott, Wil-
liam H., 4,689,174, Cl. 75-0.50B.
, Hiroshi: *See—*
asuda, Sumio; Iiyama, Hiroshi; and Tamura, Kazuyuki, 4,692,613,
Cl. 250-231.0SE.
, Kiyotaka; and Inaba, Norihiko, to Ricoh Company, Ltd. Two-
r thermosensitive recording label. 4,638,340, 1-20-87, Cl.
204.000.
, Kiyotaka; and Inaba, Norihiko, to Ricoh Company, Ltd. Two-
r thermosensitive recording adhesive label. 4,663,641, 5-5-87, Cl.
204.000.
, Kiyotaka; and Inaba, Norihiko, to Ricoh Company, Ltd. Multi-
r thermosensitive recording material. 4,665,410, 5-12-87, Cl.
204.000.
, Ryuji; and Murakami, Koji, to Fujitsu Limited; and Aisin Seiki
ushiki Kaisha. Motor control method and apparatus therefor.
1,067, 2-3-87, Cl. 318-287.000.
Masaki: *See—*
ibata, Takashi; Yamada, Nobuo; Mada, Yoshikazu; and Iizima,
Masaki, 4,705,977, Cl. 310-235.000.
Noriko: *See—*
iyata, Shigeo; Iizima, Noriko; and Manabe, Tadashi, 4,642,193,
Cl. 210-682.000.
Akira; Konai, Yutaka; Yamauchi, Takashi; and Hayashi, Shoi-
, to Kureha Kagaku Kogyo Kabushiki Kaisha. 6-substituted
thalene-2-carboxylic acids and process for producing the same.
8,087, 1-20-87, Cl. 562-467.000.
Akira: *See—*
guri, Shigenori; and Iizuka, Akira, 4,699,039, Cl. 84-1.030.
Fumio; Shimoyama, Shin; and Abe, Yoshiaki, to Pentel Kabu-
Kaisha. Pencil lead composition with magnesium oxysulfate
us material. 4,668,572, 5-26-87, Cl. 428-330.000.
Hajime: *See—*
atakami, Tsutomu; Fukazawa, Nobuyuki; Iizuka, Hajime; Ni-
shina, Takashi; Kamiya, Joji; Tanaka, Yasuhito; and Nakano,
Takuo, 4,639,451, Cl. 514-247.000.
Jiro; and Ozu, Akira, to Victor Company of Japan, Ltd. High-
d video camera and method of high-speed imaging using a beam
ter. 4,646,156, 2-24-87, Cl. 358-225.000.
Jiro: *See—*
amizu, Shigemi; and Iizuka, Jiro, 4,701,115, Cl. 418-55.000.
Kazuo: *See—*
imomura, Hiroshi; Karino, Katsuyoshi; and Iizuka, Kazuo,
4,645,384, Cl. 407-42.000.
imomura, Hiroshi; Takaya, Sueji; and Iizuka, Kazuo, 4,699,549,
Cl. 407-42.000.
imomura, Hiroshi; Iizuka, Kazuo; Harano, Makoto; and Hamada,
Akifumi, 4,714,383, Cl. 407-42.000.
Kenichi; Kitayama, Tooru; Uzuhashi, Hideo; and Aoki, Hideo,
Hitachi, Ltd. Inverting apparatus. 4,709,317, 11-24-87, Cl.
37.000.
Kenichi: *See—*
obayashi, Minoru; Iizuka, Kenichi; and Uzuhashi, Hideo,
4,662,185, Cl. 62-228.400.
Kinji; Kamijo, Tetsuhide; Kubota, Tetsuhiro; Akahane, Kenji;
yama, Hideaki; and Kiso, Yoshiaki, to Kissei Pharmaceutical
Ltd. Histidine derivatives. 4,656,269, 4-7-87, Cl. 544-139.000.
Kinji; Kamijo, Tetsuhide; Kubota, Tetsuhiro; Akahane, Kenji;
yama, Hideaki; and Kiso, Yoshiaki, to Kissei Pharmaceutical
Ltd. Morpholine containing amino acid derivatives. 4,711,958,
-87, Cl. 544-139.000.
Kiyoshi, to Canon Kabushiki Kaisha. Display device. 4,711,547,
-87, Cl. 354-471.000.
Michio; and Shiba, Haruo, to TDK Corporation. Disk cartridge.
6,550, 4-7-87, Cl. 360-133.000.
Michio; and Shiba, Haruo, to TDK Corporation. Disk cartridge
ng elastic pieces. 4,677,516, 6-30-87, Cl. 360-133.000.
Michio; and Shiba, Haruo, to TDK Corporation. Magnetic disc
idge. 4,710,839, 12-1-87, Cl. 360-133.000.
Nobuyuki; Hisano, Katsukuni; Wada, Katsuo; Kunihiro, Masa-
Hirose, Fumiyuki; Ishibashi, Yoji; Sato, Isao; Arai, Osamu; Inose,
shi; and Sakuda, Osamu, to Hitachi, Ltd. Gas turbine combustor.
7,822, 7-7-87, Cl. 60-39.230.
Nobuyuki; Hisano, Katsukuni; Oshima, Ryoichiro; Wada, Kat-
Hirose, Fumiyuki; Kuroda, Michio; Uchiyama, Yoshihiro;
ashi, Yoji; Sato, Isao; and Inose, Hiroshi, to Hitachi, Ltd.
od of starting gas turbine plant. 4,683,715, 8-4-87, Cl. 60-39.060.
Nobuyuki; Hirose, Fumiyuki; Sato, Isao; and Ishibashi, Yoji, to
chi, Ltd. Gas turbine combustor. 4,704,869, 11-10-87, Cl.
51.000.
Shigeo, to Yoshino Kogyosho Co., Ltd. Manual liquid dis-
er. 4,643,338, 2-17-87, Cl. 222-321.000.
Shigeru: *See—*
mazaki, Masahiro; Iizuka, Shigeru; Kamiya, Shigemitsu; Oka,
Yoshiro; and Fujino, Katsuhiro, 4,676,404, Cl. 222-56.000.
Tetsuya, to Tokyo Shibaura Denki Kabushiki Kaisha. Metal
e semiconductor field-effect transistor with metal source making ohmic contact to channel-base region. 4,639,758, 1-27-87, Cl. 357-42.000.

Iizuka, Tetsuya; Fujii, Syuso; and Uchida, Yukimasa, to Tokyo Shibaura Denki Kabushiki Kaisha. Dynamic memory device with an RC circuit for inhibiting the effects of alpha particle radiation. 4,641,165, 2-3-87, Cl. 357-23.600.

Iizuka, Tetsuya, to Kabushiki Kaisha Toshiba. Semiconductor device. 4,646,126, 2-24-87, Cl. 357-51.000.

Iizuka, Tetsuya, to Kabushiki Kaisha Toshiba. MOS semiconductor device. 4,698,789, 10-6-87, Cl. 365-226.000.

Iizuka, Tetsuya: *See—*
- Miyamoto, Junichi; and Iizuka, Tetsuya, 4,642,673, Cl. 357-23.500.
- Sakurai, Takayasu; and Iizuka, Tetsuya, 4,677,592, Cl. 365-222.000.
- Sakurai, Takayasu; and Iizuka, Tetsuya, 4,682,306, Cl. 365-222.000.
- Sakurai, Takayasu; and Iizuka, Tetsuya, 4,683,382, Cl. 307-296.00R.
- Sugisaku, Noritsugu; and Iizuka, Tetsuya, 4,664,621, Cl. 431-346.000.

Iizuka, Tokio: *See—*
- Okazaki, Susumu; Iizuka, Tokio; and Kado, Satoshi, 4,652,544, Cl. 502-208.000.

Iizuka, Toshimi; and Kamata, Shigeru, to Canon Kabushiki Kaisha. Lens mounting. 4,690,505, 9-1-87, Cl. 350-252.000.

Iizuka, Toshimi; and Kamata, Shigeru, to Canon Kabushiki Kaisha. Lens moving device. 4,707,083, 11-17-87, Cl. 350-429.000.

Iizuka, Toshimi: *See—*
- Kamata, Shigeru; and Iizuka, Toshimi, 4,687,297, Cl. 350-252.000.
- Kamata, Shigeru; and Iizuka, Toshimi, 4,690,514, Cl. 350-429.000.

Iizuka, Yasuo: *See—*
- Tsukuda, Yasuo; Hara, Hisao; Harada, Hideki; and Iizuka, Yasuo, 4,715,178, Cl. 60-272.000.

Iizuka, Yo; Iwasaki, Takao; Katto, Takayuki; and Shiiki, Zenya, to Kureha Kagaku Kogyo Kabushiki Kaisha. Process for production of high to ultra-high molecular weight linear polyarylenesulfides. 4,645,826, 2-24-87, Cl. 528-388.000.

Iizuka, Yo: *See—*
- Katto, Takayuki; Tada, Masahito; Kouyama, Toshitaka; and Iizuka, Yo, 4,659,789, Cl. 525-537.000.

Iizuka, Yoshio; Matsunaga, Shigeo; and Ogawa, Satoshi, to Fujitsu Limited. Facsimile apparatus. 4,646,160, 2-24-87, Cl. 358-257.000.

Iizuka, Yoshio: *See—*
- Yoshioka, Takao; Kitazawa, Eiichi; Yamazaki, Mitsuo; and Iizuka, Yoshio, 4,691,027, Cl. 549-32.000.

Iizuka, Yumiko: *See—*
- Watanabe, Toshinori; Sasaki, Koji; Yasunobu, Chizuko; Iizuka, Yumiko; Nagai, Yoshiaki; Yamanaka, Toshiro; Yamakoshi, Minoru; and Tanaka, Takashi, 4,700,317, Cl. 364-488.000.

Iizuka, Yutaka, to Nippon Kogaku K. K. Catadioptric telephoto lens. 4,666,259, 5-19-87, Cl. 350-444.000.

Ijichi, Kiyoteru: *See—*
- Ozawa, Isao; Ito, Noboru; Takizawa, Masaaki; Ohta, Yoshio; and Ijichi, Kiyoteru, 4,635,910, Cl. 267-140.100.

Ijichi, Masakatsu; Uehara, Yutaka; Sakaguchi, Masahiro; and Imamura, Shinichi, to Kabushiki Kaisha Ijichi Shukeijo. Stall house for livestock breeding. 4,706,607, 11-17-87, Cl. 119-16.000.

Ijiri, Waichiro; and Hirakushi, Shuzo, to Koyo Jidoki Kabushiki Kaisha. Hydraulic control apparatus for a power steering device. 4,637,484, 1-20-87, Cl. 180-142.000.

Ijiri, Yasuo; Iri, Eiji; Oguchi, Toshitaro; and Aritomi, Koichiro, to Dainichi-Nippon Cables, Ltd. Waterproof optical fiber cable. 4,703,997, 11-3-87, Cl. 350-96.230.

Ijiri, Yasuo: *See—*
- Iri, Eiji; Kaneko, Takashi; Shintani, Takeshi; Mio, Kotaro; and Ijiri, Yasuo, 4,711,523, Cl. 350-96.230.

Ikada, Shoji: *See—*
- Fujii, Haruki; Ikada, Shoji; Fukuda, Akimitsu; and Okumura, Yasuo, 4,637,840, Cl. 148-6.200.

Ikada, Yoshito: *See—*
- Hyon, Suong-Hyu; and Ikada, Yoshito, 4,663,358, Cl. 521-64.000.

Ikagami, Akira: *See—*
- Kaneyasu, Masayoshi; Arima, Hideo; Ito, Mitsuko; Iwanaga, Shoichi; Sato, Nobuo; Noro, Takanobu; Ikagami, Akira; and Isogai, Tokio, 4,638,443, Cl. 364-497.000.

Ikaheimo, Antero, to Pohjoiskalotti Oy. Spring structure intended specifically for play or exercise apparatus. 4,693,467, 9-15-87, Cl. 272-52.000.

Ikai, Tadayoshi; and Kamo, Takashi, to Toyota Jidosha Kabushiki Kaisha. Air/fuel ratio detector. 4,712,419, 12-15-87, Cl. 73-116.000.

Ikai, Takasi: *See—*
- Baba, Masatoshi; Tanaka, Norio; Ikai, Takasi; Nawamaki, Tsutomu; and Matsunaga, Masaji, 4,643,757, Cl. 71-86.000.
- Numata, Tatsuo; Hatanaka, Masataka; Watanabe, Junichi; Ikai, Takasi; Nawamaki, Tsutomu; and Hattori, Kenji, 4,696,694, Cl. 71-86.000.
- Yamamoto, Susumu; Sato, Toshiaki; Ikai, Takasi; Oguti, Tosihiko; and Nawamaki, Tsutomu, 4,668,277, Cl. 71-92.000.
- Yamamoto, Susumu; Sato, Toshiaki; Ikai, Takasi; Nawamaki, Tsutomu; and Oguti, Tosihiko, 4,689,417, Cl. 548-376.000.

Ikarashi, Masami: *See—*
- Kamijo, Yoshimi; Kato, Yoshinori; and Ikarashi, Masami, 4,653,186, Cl. 29-838.000.
- Kamijo, Yoshimi; Kato, Yoshinori; and Ikarashi, Masami, 4,667,128, Cl. 313-505.000.

Ikarashi, Takayoshi: *See—*
- Iida, Tetsuya; and Ikarashi, Takayoshi, 4,679,216, Cl. 377-116.000.

Ikari, Kazuo, to Olympus Optical Co., Ltd. Photographic lens system. 4,645,312, 2-24-87, Cl. 350-464.000.

Ikari, Kazuo: *See—*

Mihara, Shin-ichi; Imai, Tosihiro; Ikari, Kazuo; and Fujii, Toru, 4,635,125, Cl. 358-228.000.

Ikari, Kyoichiro: *See—*

Negi, Taichi; Kawasaki, Akihiko; and Ikari, Kyoichiro, 4,645,695, Cl. 428-35.000.

Satoh, Kenji; Kaneshige, Isao; and Ikari, Kyoichiro, 4,684,564, Cl. 428-216.000.

Ikari, Masahide, to Victor Company of Japan, Ltd. Magnetic recording and/or reproducing apparatus. 4,647,995, 3-3-87, Cl. 360-96.200.

Ikari, Masahiro: *See—*

Yamamoto, Fumio; Suzuki, Takayoshi; Ikari, Masahiro; Saito, Susumu; Ohmori, Akira; and Yasuhara, Takashi, 4,684,705, Cl. 526-246.000.

Ikari, Yasuki: *See—*

Morishita, Mitsuharu; Hara, Tadayuki; Kohge, Shinichi; Watanabe, Tetsushi; and Ikari, Yasuki, 4,635,741, Cl. 180-79.100.

Morishita, Mitsuharu; Hara, Tadayuki; Kohge, Shinichi; Watanabe, Tetsushi; and Ikari, Yasuki, 4,666,010, Cl. 180-79.100.

Ikari, Yoshikatsu; Yokoyama, Shoichiro; Ohama, Chiaki; and Fukui, Ryosuke, to Director-General of Agency of Industrial Science and Technology; and Minato Sangyo Co., Ltd. Chemically-active composition containing divalent iron ions. 4,670,288, 6-2-87, Cl. 427-4.000.

Ikariya, Takao; Itagaki, Masanori; Mizuguchi, Masatsugu; Sakai, Itaru; and Tajima, Osamu, to Nippon Kokan Kabushiki Kaisha. Method of manufacturing aromatic urethane and intermediate product thereof. 4,678,856, 7-7-87, Cl. 560-24.000.

Ikariya, Takao; Itagaki, Masanori; Mizuguchi, Masatsugu; Sakai, Itaru; and Tajima, Osamu, to Nippon Kokan Kabushiki Kaisha. Method of manufacturing diphenylmethane dicarbamic acid diester. 4,699,994, 10-13-87, Cl. 560-025.000.

Ikariya, Takao: *See—*

Yoshikawa, Sadao; Saburi, Masahiko; Ikariya, Takao; Ishii, Youichi; and Akutagawa, Susumu, 4,691,037, Cl. 556-18.000.

Ikariya, Toshiyuki: *See—*

Sakamoto, Norio; Ikariya, Toshiyuki; Takahashi, Kiyohiko; Nakamura, Masao; and Yanagisawa, Akira, 4,668,472, Cl. 422-56.000.

Ikawa, Hiroshi: *See—*

Kutsuma, Teruo; Ikawa, Hiroshi; and Sato, Yoshiaki, 4,672,068, Cl. 514-336.000.

Ikawa, Kazuo; and Watanabe, Isao, to Canon Kabushiki Kaisha. Electronic flash device for camera. 4,672,273, 6-9-87, Cl. 315-241.00P.

Ikawa, Kazuo: *See—*

Miyawaki, Makoto; and Ikawa, Kazuo, 4,666,280, Cl. 354-414.000.

Ikawa, Shoji: *See—*

Haga, Minoru; Kaneko, Shinobu; Ikawa, Shoji; Murayama, Kimimasa; Nakamura, Yasuhide; and Saito, Mitsuo, 4,691,551, Cl. 72-88.000.

Murayama, Kimimasa; Ikawa, Shoji; and Kaneko, Shinobu, 4,633,696, Cl. 72-88.000.

Ikawa, Yasuo; Kawakyu, Katsue; and Kameyama, Atushi, to Kabushiki Kaisha Toshiba. Gallium arsenide gate array integrated circuit including DCFL NAND gate. 4,639,621, 1-27-87, Cl. 307-450.000.

Ikawa, Yasuo; Toyoda, Nobuyuki; Kanazawa, Katsue; Mizoguchi, Takamaro; and Hojo, Akimichi, to Kabushiki Kaisha Toshiba. Gate array integrated circuit using Schottky-barrier FETs. 4,663,646, 5-5-87, Cl. 357-45.000.

Ike, Hideo: *See—*

Tsuji, Eiji; Okabe, Hirobumi; Ike, Hideo; Uratani, Fumihiro; Ota, Takashi; Kaneda, Hiroshi; Hanatate, Yuko; Hamada, Tadashi; and Oonishi, Hironobu, 4,668,585, Cl. 428-469.000.

Ike, Kazuo: *See—*

Kawada, Hideaki; Ike, Kazuo; Nemoto, Tsuneo; and Omori, Kiyoshi, 4,703,384, Cl. 360-132.000.

Ikebe, Masaru; Satoh, Takateru; and Tanaka, Kimio, to TDK Corporation. Tape cassette. 4,671,469, 6-9-87, Cl. 242-198.000.

Ikebuchi, Iwao; Fuse, Kazuo; and Ganse, Akira, to Kubota Ltd. Vertical grinding mill. 4,660,776, 4-28-87, Cl. 241-53.000.

Ikeda, Akihiko: *See—*

Ai, Hideo; Ikeda, Akihiko; and Matsuoka, Yoshio, 4,645,823, Cl. 528-336.000.

Ikeda, Akira: *See—*

Morinaga, Michio; Ikeda, Akira; and Shinohara, Akira, 4,673,749, Cl. 548-490.000.

Ikeda, Akitoshi; Nishimura, Chitoshi; Katsuoka, Norio; and Obara, Masami, to Furukawa Electric Co., Ltd., The. Method of winding optical cable on aerial wire. 4,715,582, 12-29-87, Cl. 254-134.3CL.

Ikeda, Atsuo, to Pioneer Electronic Corporation. Optical data reader. 4,661,943, 4-28-87, Cl. 369-44.000.

Ikeda Bussan Co., Ltd.: *See—*

Fujiwara, Mikio, 4,668,010, Cl. 297-150.000.

Ishigami, Yukio; Akiyama, Yoshinori; and Terasawa, Haruhumi, 4,655,501, Cl. 297-113.000.

Izumida, Satoshi, 4,702,454, Cl. 248-585.000.

Kimura, Syuzaburo, 4,648,656, Cl. 297-337.000.

Maruyama, Hidekazu, 4,652,051, Cl. 297-332.000.

Maruyama, Hidekazu, 4,691,966, Cl. 297-452.000.

Matsuda, Koichi; Kondo, Nobuaki; and Tanaka, Yuji, 4,635,890, Cl. 248-429.000.

Miyauchi, Fumio, 4,673,200, Cl. 285-319.000.

Sato, Toru; and Asano, Yoshihiro, 4,670,324, Cl. 428-178.000.

Seura, Yasuyuki, 4,709,964, Cl. 297-354.000.

Shimomura, Kenji; Kouketsu, Shigeaki; Okuyama, Toru; and Sato, Take, 4,696,952, Cl. 521-107.000.

Sugiyama, Hiroshi, 4,675,587, Cl. 318-568.000.

Tagawa, Yuji, 4,699,426, Cl. 297-378.000.

Tamura, Hisao; and Kawakami, Takuji, 4,674,792, Cl. 297-408.000.

Tateyama, Tomoyoshi, 4,674,797, Cl. 297-408.000.

Terui, Mituru; Obata, Masaaki; and Morooka, Noriji, 4,660,884, Cl. 297-317.000.

Yamane, Eiiti; and Yamauchi, Yoshihiko, 4,708,387, Cl. 296-63.000.

Ikeda, Daishiro: *See—*

Umezawa, Hamao; Takeuchi, Tomio; Kondo, Shinichi; Iinuma, Hironobu; Ikeda, Daishiro; Nakamura, Teruya; and Fujii, Akio, 4,658,058, Cl. 564-159.000.

Ikeda, Haruhiko; and Hiraishi, Shigetoshi, to Mitsubishi Paper Mills, Ltd. Thermal recording materials. 4,688,058, 8-18-87, Cl. 503-209.000.

Ikeda, Haruhiko; and Hiraishi, Shigetoshi, to Mitsubishi Paper Mills, Ltd. Heat sensitive recording material. 4,707,463, 11-17-87, Cl. 503-209.000.

Ikeda, Haruyoshi: *See—*

Yoshiura, Shoichiro; and Ikeda, Haruyoshi, 4,669,863, Cl. 355-14.0SH.

Ikeda, Hidekatsu; Morikawa, Hiroyuki; and Yoshie, Yasunori, to Amada Company, Limited. Tapping machine. 4,700,441, 10-20-87, Cl. 29-33.00P.

Ikeda, Hidekatsu: *See—*

Hirata, Tadashi; Ikeda, Hidekatsu; Arima, Yoshitaka; and Kashihara, Yoshihiko, 4,679,473, Cl. 83-157.000.

Ikeda, Hidekazu; and Ono, Masayoshi, to Mazda Motor Corporation. Knee projector in automobile. 4,662,649, 5-5-87, Cl. 280-752.000.

Ikeda, Hideo; Ohno, Shigeru; Nakamura, Koki; and Miyasaka, Nobuaki, to Fuji Photo Film Co., Ltd. Silver halide photographic light-sensitive materials. 4,657,847, 4-14-87, Cl. 430-523.000.

Ikeda, Hideo, to Sanden Corporation. Control device for refrigerated display case. 4,691,527, 9-8-87, Cl. 62-234.000.

Ikeda, Hideo: *See—*

Nakamura, Koki; Kojima, Tetsuro; Toyoda, Takashi; and Ikeda, Hideo, 4,675,276, Cl. 430-446.000.

Sugimoto, Tadao; and Ikeda, Hideo, 4,656,120, Cl. 430-434.000.

Ikeda, Hidetsugu: *See—*

Matsui, Shingo; Ikeda, Hidetsugu; Era, Akio; and Nishimura, Sanji, 4,639,355, Cl. 423-112.000.

Ikeda, Hiraku; and Kuwashima, Hidesumi, to Hitachi, Ltd. Governing mode change-over apparatus. 4,714,401, 12-22-87, Cl. 415-30.000.

Ikeda, Hiroaki: *See—*

Adachi, Masahiko; Ono, Isao; and Ikeda, Hiroaki, 4,672,328, Cl. 330-286.000.

Funaki, Shinsuke; Akanabe, Yuichi; and Ikeda, Hiroaki, 4,710,779, Cl. 346-1.100.

Ikeda, Hiroki; and Takanashi, Nobuaki, to NEC Corporation. Joint assembly movable like a human arm. 4,683,406, 7-28-87, Cl. 318-568.000.

Ikeda, Hiroshi, to Citizen Watch Co., Ltd. Paper feeder for a printer. 4,637,537, 1-20-87, Cl. 226-76.000.

Ikeda, Hiroshi; and Iesaka, Tsutomu, to Citizen Watch Co., Ltd. Carriage supporting device for a printer. 4,643,602, 2-17-87, Cl. 400-354.000.

Ikeda, Hiroshi, to Citizen Watch Co., Ltd. Tract wire tightening device for carriage of printer. 4,653,948, 3-31-87, Cl. 400-335.000.

Ikeda, Hirotane; Hattori, Tadashi; Ohta, Minoru; and Mukainakano, Shinichi, to Nippon Soken, Inc. Method and device for forming ultrafine particle film of compound. 4,714,047, 12-22-87, Cl. 118-724.000.

Ikeda, Hiroyuki; Matsumoto, Seikichi; Kitagawa, Shunji; Inagaki, Takefumi; and Sebata, Ichiro, to Fujitsu Limited. Beam scanning type information readout device. 4,639,070, 1-27-87, Cl. 350-3.710.

Ikeda, Hiroyuki: *See—*

Matsumoto, Seikichi; and Ikeda, Hiroyuki, 4,639,071, Cl. 350-3.710.

Yamazaki, Kozo; Yamagishi, Fumio; Ikeda, Hiroyuki; Watanabe, Hiroshi; Ishii, Mitsuharu; Sebata, Ichiro; and Inagaki, Takefumi, 4,647,143, Cl. 350-3.710.

Yamazaki, Kozo; Yamagishi, Fumio; Ikeda, Hiroyuki; Inagaki, Takefumi; Sebata, Ichiro; Kitagawa, Shunji; Kato, Masayuki; and Ichikawa, Toshiyuki, 4,655,541, Cl. 350-3.710.

Ikeda, Hisatoshi: *See—*

Yanabu, Satoru; Mizoguchi, Hitoshi; Ikeda, Hisatoshi; Sasaki, Katsumi; Toyoda, Mitsuru; and Thuries, Edmond, 4,665,289, Cl. 200-148.00A.

Ikeda, Hisayuki: *See—*

Kuze, Shuichi; Inomata, Tamotsu; Muramoto, Setsuo; and Ikeda, Hisayuki, 4,676,897, Cl. 210-198.200.

Ikeda, Itsuo: *See—*

Adachi, Tsukasa; Shinguryo, Satoshi; Furuta, Hideya; Sakai, Yoshihiro; Ikeda, Itsuo; and Sakai, Katsuo, 4,655,579, Cl. 355-4.000.

Koizumi, Yutaka; Furuta, Hideya; Sakai, Yoshihiro; Mamizuka, Mitsuru; Adachi, Tsukasa; Ikeda, Itsuo; and Sakai, Katsuo, 4,664,501, Cl. 355-4.000.

Mochizuki, Manabu; Ikeda, Itsuo; Kurotori, Tsuneo; Shinguryo, Satoshi; Miyakawa, Seiichi; Kobayashi, Yuichi; Nonaka, Mitsuhiro; and Fukuda, Haruhiko, 4,669,859, Cl. 355-10.000.

Ikeda, Ituso: *See—*

Sakai, Yoshihiro; Ikeda, Ituso; Sakai, Katsuo; Adachi, Tsukasa; Shinguryo, Satoshi; and Furuta, Hideya, 4,690,541, Cl. 355-4.000.

Ikeda, Junichi: *See—*

Kohata, Toshihide; Miyazaki, Masaru; Sato, Yoshihisa; and Ikeda, Junichi, 4,697,408, Cl. 57-264.000.

Ikeda, Kaoru: *See—*

Konno, Kazuhiko; Araki, Koichi; Ikeda, Kaoru; Endo, Keiji; and Hikido, Mitsuru, 4,659,365, Cl. 71-92.000.

Kazuhiko; and Kawamura, Makoto, to Panafacom Limited.
puter system capable of interruption using special protection
for write interruption region of memory device. 4,701,846,
-87, Cl. 364-200.000.

Kazushige: *See—*
uri, Akihiko; and Ikeda, Kazushige, 4,680,929, Cl. 60-368.000.
kasaki, Eiji; Shirashoji, Hisashi; Hoshikawa, Katsuyuki, Kamijo,
Takao; Ikeda, Kazushige; Inoue, Yasuhiro; and Kato, Takeo,
,640,329, Cl. 152-209.00R.

Kei: *See—*
awa, Hidehiro; Ezawa, Akira; and Ikeda, Kei, 4,652,102, Cl.
54-21.000.

Keichi: *See—*
egood, Norman W.; Fritsche, Joel L.; Groezinger, John J.;
keda, Keichi, and Streitmatter, Ronald W., 4,692,196, Cl.
56-187.000.

Kenichi: *See—*
, Akira; Kanno, Hideo; Hasegawa, Nobu; Miyagi, Yukio; Ni-
himura, Akira; Konaka, Shigeo; Ohmi, Tetsuto; Munechika,
Yukimi; Uchida, Matazaemon; and Ikeda, Kenichi, 4,636,519, Cl.
14-397.000.

Kenji: *See—*
rashi, Akira; Ikeda, Kensuke; and Ikeda, Kenji, 4,646,113, Cl.
46-209.000.
ba, Tetsuo; Takahashi, Kazuhisa; Ikeda, Kenji, and Higuchi,
Hideyo, 4,706,106, Cl. 357-78.000.
mamoto, Masaya; and Ikeda, Kenji, 4,667,611, Cl. 112-166.000.

Kensuke: *See—*
rashi, Akira; Ikeda, Kensuke; and Ikeda, Kenji, 4,646,113, Cl.
46-209.000.

Kinjiro: *See—*
mei, Noboru; Ikeda, Kinjiro; Aoyama, Keishi; and Hamano,
Seitaro, 4,639,294, Cl. 203-88.000.

Kinzokukogyo Co., Ltd.: *See—*
eyama, Tomoyoshi, 4,674,797, Cl. 297-408.000.

Kinzokukuogyo Co, Ltd.: *See—*
mura, Hisao; and Kawakami, Takuji, 4,674,792, Cl. 297-408.000.

Kiyoshi, to NEC Corporation. Multi-direction time division
plex communication apparatus. 4,703,479, 10-27-87, Cl.
04.000.

Koichi; Nakamura, Kozi; and Okabe, Toshihiro, to Hitachi, Ltd.
al address system having fixed common bus cycles. 4,695,947,
87, Cl. 364-200.000.

Kosaku, to Mitsubishi Denki Kabushiki Kaisha. Movable contact
bly for a switch. 4,634,819, 1-6-87, Cl. 200-16.00A.

Kosaku: *See—*
do, Isao; Tazawa, Hiroaki; Sako, Yuji; Ootsuka, Shigeharu;
Mizuno, Yuji; and Ikeda, Kosaku, 4,671,697, Cl. 403-325.000.

Kouhei; Iwata, Kozo; and Masaki, Hisayoshi, to Howa Kogyo
shiki Kaisha. Gas pressure adjusting device in gas-operated
loading firearm. 4,702,146, 10-27-87, Cl. 89-193.000.

Kouji: *See—*
akada, Tsutomu; Ashaishi, Ishao; Koizumi, Tatsunori; and Ikeda,
Kouji, 4,655,800, Cl. 55-195.000.

Kunihiko; Suzuki, Shigeru; Yokota, Takashi; Shimura, Akira;
ama, Yutaka; Yamazaki, Shigeru; Niro, Masaichi; and Tomita,
ru. Printer. 4,657,372, 4-14-87, Cl. 355-3.00R.

Kunihiko, to Canon Kabushiki Kaisha. Ink jet recorder having
k acceptor with an ink absorber provided therein. 4,701,771,
-87, Cl. 346-140.00R.

Masaaki; Takahara, Wataru; Iteguchi, Junichi; Satoh, Hiroyuki;
h, Shyuji, to TDK Corporation. Dielectric ceramic composi-
and method of producing same, and a monolithic capacitor.
,732, 2-10-87, Cl. 361-321.000.

Masafumi: *See—*
kashima, Hirohisa; Komatsu, Yoshimi; Ikeda, Masafumi; and
Kondo, Tsuneo, 4,652,306, Cl. 75-10.170.
kashima, Hirohisa; Komatsu, Yoshimi; Ikeda, Masafumi; and
Kondo, Tsuneo, 4,652,308, Cl. 75-49.000.

Masahiko: *See—*
imizu, Takanori; and Ikeda, Masahiko, 4,646,107, Cl. 346-74.200.

Masaki: *See—*
shino, Atsushi; Ikeda, Masaki; Watanabe, Yoshihiro; and Hiraka,
Masahiro, 4,694,573, Cl. 29-846.000.

Masakiyo; Kojima, Seiji; Kikuchi, Hiroshi; and Kashiwayanagi,
, to Furukawa Electric Co., Ltd., The. Chemical vapor depos-
method for the thin film of semiconductor. 4,705,700, 11-10-87,
37-231.000.

Masami; Aoki, Seiichi; Saito, Akio; Inamoto, Tadayoshi; and
i, Katsuyuki, to Canon Kabushiki Kaisha. Liquid injection
rding apparatus. 4,646,110, 2-24-87, Cl. 346-140.00R.

Masami, to Canon Kabushiki Kaisha. Recording head. 4,663,640,
7, Cl. 346-140.00R.

Masami, Shibata, Makoto; Takahashi, Hiroto; and Matsuda,
to, to Canon Kabushiki Kaisha. Liquid jet recording head.
,544, 8-11-87, Cl. 346-140.00R.

Masami; Matsuda, Hiroto; Takahashi, Hiroto; and Shohji, Tat-
, to Canon Kabushiki Kaisha. Liquid jet recording head with a
ective layer formed by converting the surface of a transducer into
sulating material. 4,694,306, 9-15-87, Cl. 346-140.00R.

Masami: *See—*
atsumoto, Tokio; Aoki, Seiichi; Matsuda, Hiroto; Ikeda, Masami;
Matsumoto, Haruyuki; and Saito, Asao, 4,646,105, Cl. 346-1.100.
gitani, Hiroshi; Ozawa, Masakazu; Matsuda, Hiroto; Ikeda,
Masami; and Matsumoto, Haruyuki, 4,701,766, Cl. 346-1.100.

Ikeda, Masao: *See—*
  Higuchi, Seizun; Oga, Tomonari; Ikeda, Masao; and Nakano, Hirohumi, 4,713,301, Cl. 428-628.000.

Ikeda, Masayuki: *See—*
  Wakabayashi, Hiroshi; Obikawa, Fumito; and Ikeda, Masayuki, 4,688,763, Cl. 354-173.110.

Ikeda, Masuhiro: *See—*
  Yoshino, Hiroshi; Tsuchiya, Yutaka; Kaneko, Takeru; Nakazawa, Takahiro; Ikeda, Masuhiro; Araki, Shin; Yamatsu, Kiyomi; Tachibana, Shinro; and Arakawa, Yoshihiro, 4,707,468, Cl. 514-16.000.

Ikeda, Minoru; and Higashigawa, Yasuyuki, to Sumikin Coke Company Limited. Automatic control method for coke oven working machines and fixed position control apparatus therefor. 4,674,054, 6-16-87, Cl. 364-477.000.

Ikeda, Minoru: *See—*
  Komeyama, Yoshihiro; Kembo, Yukio; Kuni, Asahiro; Funatsu, Ryuuichi; Inagaki, Akira; Ikeda, Minoru; and Okamoto, Keiichi, 4,708,484, Cl. 356-401.000.

Ikeda, Mitsuhiro; and Nakao, Yasuo, to Nippon Air Brake Co., Ltd. Emergency brake command read-convert device for railway train having cars with pneumatic and cars with electrical brake control. 4,679,363, 7-14-87, Cl. 303-3.000.

Ikeda, Mitsuhiro: *See—*
  Tamamori, Hideo; and Ikeda, Mitsuhiro, 4,678,241, Cl. 303-33.000.

Ikeda, Mitsuo; Aiba, Kazumi; and Arata, Tetsuya, to Hitachi, Ltd. Method of and apparatus for positioning compressor scroll member. 4,649,611, 3-17-87, Cl. 29-156.40R.

Ikeda, Mitsuo: *See—*
  Murayama, Akira; Kuno, Hiroaki; Uchikawa, Naoshi; Tamura, Takahiro; Mizuno, Takao; Aiba, Kazumi; Ikeda, Mitsuo; and Fukatsu, Kiyoshi, 4,690,625, Cl. 418-55.000.

Ikeda, Mitsuru, to Fuji Photo Film Co., Ltd. Device for measuring the number of bacteria in superpure water. 4,698,308, 10-6-87, Cl. 435-291.000.

Ikeda, Mitsuru: *See—*
  Higashi, Akio; Shinada, Haruji; Kawajiri, Kazuhiro; Ono, Yoshihiro; Saitou, Mitsuo; Tamura, Hiroshi; and Ikeda, Mitsuru, 4,694,317, Cl. 357-30.000.
  Ishikawa, Ken; Ikeda, Mitsuru; and Watanabe, Shigeru, 4,652,735, Cl. 250-578.000.

Ikeda, Mitsushi: *See—*
  Suzuki, Kouji; Ikeda, Mitsushi; and Aoki, Toshio, 4,700,458, Cl. 437-83.000.

Ikeda Mohando Co., Ltd.: *See—*
  Nohara, Fujio; and Fujinawa, Tomoaki, 4,639,523, Cl. 546-209.000.
  Nohara, Fujio; and Fujinawa, Tomoaki, 4,673,747, Cl. 546-334.000.
  Nohara, Fujio; and Fujinawa, Tomoaki, 4,710,498, Cl. 514-242.000.

Ikeda, Noriyasu: *See—*
  Saito, Kiichi; Aoki, Masahiro; Ikeda, Noriyasu; Miki, Masayoshi; and Nagayama, Masaaki, 4,653,684, Cl. 228-263.150.

Ikeda, Sadao: *See—*
  Tsutsumi, Teruo; Ikeda, Sadao; and Takagi, Toshio, 4,660,053, Cl. 346-76.0PH.

Ikeda, Sakio, to Dynic Corporation; and Mine Kinzoku Kogyo Kabushiki Kaisha. Device for decreasing side stream smoke of tobacco products. 4,638,819, 1-27-87, Cl. 131-331.000.

Ikeda, Sakio; and Yonamine, Shozen, to Dynic Corporation; and Mine Kinzoku Kogyo K.K. Cigarettes. 4,691,717, 9-8-87, Cl. 131-365.000.

Ikeda, Satoshi; and Suzuki, Nobukazu, to Sumitomo Metal Industries, Ltd. Steel strips with corrosion resistant surface layers having good appearance. 4,707,415, 11-17-87, Cl. 428-621.000.

Ikeda, Shigeki, to NEC Corporation. Radio communication device and method of controlling transmitter output power. 4,654,882, 3-31-87, Cl. 455-88.000.

Ikeda, Shigeko: *See—*
  Inokuchi, Yukio; Ikeda, Shigeko; and Ito, Yoh, 4,702,780, Cl. 148-111.000.
  Inokuti, Yukio; Ikeda, Shigeko; Funahashi, Toshihiko; and Ito, Yo, 4,690,855, Cl. 428-209.000.

Ikeda, Shigeru; and Okamura, Naomi, to Cemedine Co., Ltd. Extrusion device. 4,681,524, 7-21-87, Cl. 425-376.00R.

Ikeda, Shinji, and Matsumoto, Shinichi, to Toyota Jidosha Kabushiki Kaisha. Method and apparatus for controlling the fuel injection amount and timing for a diesel engine. 4,633,842, 1-6-87, Cl. 123-501.000.

Ikeda, Shinji, to Toyota Jidosha Kabushiki Kaisha. Method of and apparatus for controlling vacuum modulating valve for exhaust gas recirculation control. 4,638,784, 1-27-87, Cl. 123-571.000.

Ikeda, Shinji, to Toyota Jidosha Kabushiki Kaisha. Ignition timing sensor system for a swirl chamber type Diesel engine. 4,648,266, 3-10-87, Cl. 73-117.300.

Ikeda, Shinji, to Toyota Jidosha Kabushiki Kaisha. Method and apparatus for detecting the ignition timing for a diesel engine. 4,658,642, 4-21-87, Cl. 73-119.00A.

Ikeda, Shinji: *See—*
  Matsumoto, Hisashi; Motogami, Yoshikazu; Miyahara, Masahiko; Inoue, Tokuta; Hasegawa, Kohichi; Aoki, Keiji; Ikeda, Shinji; Kawai, Mitsuo; Kobashi, Mamoru; Takata, Mamoru; Nagase, Masaomi; and Hoshiba, Hiroyuki, 4,665,740, Cl. 73-116.000.

Ikeda, Shoichiro: *See—*
  Kondo, Tatsuhei; Ito, Kaname; Ikeda, Shoichiro; Umeno, Masayoshi; and Ichikawa, Kenji, 4,673,391, Cl. 604-141.000.

Ikeda, Shunichi: *See—*
  Yamauchi, Takayoshi; Hattori, Kaneaki; Ikeda, Shunichi; Nakao, Kenji; and Tamaki, Kentaro, 4,649,213, Cl. 560-56.000.

Yamauchi, Takayoshi; Hattori, Kaneaki; Ikeda, Shunichi; and Tamaki, Kentaro, 4,716,241, Cl. 558-44.000.
Ikeda, Tadao: *See—*
Fujita, Yuji; Ikeda, Tadao; and Makishima, Tokuo, deceased, 4,634,740, Cl. 525-240.000.
Ikeda, Tadashi: *See—*
Imura, Ryo; Ikeda, Tadashi; and Sugita, Yutaka, 4,701,385, Cl. 428-693.000.
Kokubo, Tadayoshi; Ikeda, Tadashi; Adachi, Keiichi; Okazaki, Masaki; and Yoshida, Tetsuo, 4,657,846, Cl. 430-434.000.
Ikeda, Takashi. Piercing tool. 4,713,886, 12-22-87, Cl. 30-366.000.
Ikeda, Takashi: *See—*
Ikesue, Masumi; and Ikeda, Takashi, 4,641,945, Cl. 355-3.0DD.
Taniguti, Ryosuke; Kohmo, Hidenori; Kubo, Manabu; and Ikeda, Takashi, 4,688,184, Cl. 364-560.000.
Ikeda, Takenori: *See—*
Okoshi, Noboru; Motomura, Masatoshi; Ohtsubo, Mitsuru; and Ikeda, Takenori, 4,710,230, Cl. 106-308.00N.
Ikeda, Takeshi; Imai, Eiichi; Fukumoto, Hiroshi; Tanaka, Katsuhiko; Suematsu, Koshi; Urawa, Motoo; and Takenouchi, Masanori, to Canon Kabushiki Kaisha. Toner, charge-imparting material and composition containing substituted guanidine compound for electrophotography. 4,663,263, 5-5-87, Cl. 430-110.000.
Ikeda, Takeshi: *See—*
Suematsu, Koshi; Takenouchi, Masanori; Urawa, Motoo; and Ikeda, Takeshi, 4,666,814, Cl. 430-126.000.
Ikeda, Taro; Yahiro, Teruo; Yoshida, Hiroshi; Nishi, Kenji; Isobe, Takahisa; Kume, Yoichi; and Hamano, Hidenobu, to Kajima Corporation. Method of and apparatus for crushing earth under the ground. 4,688,648, 8-25-87, Cl. 175-242.000.
Ikeda, Tatsufumi: *See—*
Kano, Toshio; Knodo, Masamichi; Ikeda, Tatsufumi; and Morikawa, Chiharu, 4,703,059, Cl. 514-493.000.
Ikeda, Tatsuhiko: *See—*
Sirbasku, David A.; and Ikeda, Tatsuhiko, 4,670,539, Cl. 530-324.000.
Ikeda, Tetsuya, to Hitachi, Ltd. Character and pattern display system. 4,689,613, 8-25-87, Cl. 340-703.000.
Ikeda, Tetsuya: *See—*
Komatsu, Shigeru; and Ikeda, Tetsuya, 4,677,427, Cl. 340-703.000.
Ikeda, Toshiaki: *See—*
Kasanami, Toru; Tani, Hiroji; Watanabe, Shizuharu; and Ikeda, Toshiaki, 4,693,843, Cl. 252-518.000.
Ikeda, Toshihide: *See—*
Yagita, Yoshiaki; Okunuki, Yutaka; Ikeda, Toshihide; and Hyodo, Shoji, 4,650,672, Cl. 424-69.000.
Ikeda, Toshiki; Beppu, Yoshitugu; Yamamoto, Takashi; Ishigaki, Hideyo; and Ohmura, Hiroshi, to Sekisui Kaseihin Kogyo Kabushiki Kaisha; and Nippon Oil and Fats Co., Ltd. Expandable thermoplastic resin particles. 4,698,367, 10-6-87, Cl. 521-57.000.
Ikeda, Toshiki: *See—*
Iwamoto, Tadashi; Ikeda, Toshiki; Yukitomo, Kazuo; Hattori, Masaichi; Arakawa, Kaneyasu; Kihira, Koichi; and Hanaki, Akira, 4,683,403, Cl. 315-83.000.
Ikeda, Toshimichi: *See—*
Yoshida, Shoji; Haru, Yasuhiko; Kosaka, Etsuji; Ikeda, Toshimichi; Aoyama, Mikio; and Iida, Takeo, 4,691,788, Cl. 175-62.000.
Ikeda, Toshio; Sakamoto, Tamaki; and Masuo, Yoshihisa, to Omron Tateisi Electronics Co. Electronic thermometer. 4,634,292, 1-6-87, Cl. 374-109.000.
Ikeda, Toshio, to Canon Kabushiki Kaisha. Network system utilizing plural station addresses. 4,701,908, 10-20-87, Cl. 370-85.000.
Ikeda, Toshio: *See—*
Nakai, Hiroyasu; Ikeda, Toshio; Ando, Shiro; and Ozutsumi, Kyohei, 4,668,457, Cl. 264-227.000.
Ikeda, Toshiya: *See—*
Irikura, Tsutomu; Nishino, Keigo; Okamura, Kyuya; and Ikeda, Toshiya, 4,680,398, Cl. 546-121.000.
Ikeda, Yasuhiko: *See—*
Sakurada, Shuroku; and Ikeda, Yasuhiko, 4,682,198, Cl. 357-38.000.
Ikeda, Yasunari; Nakano, Hiroshi; and Yuchi, Hirofumi, to Sony Corporation. Television receiver having interlaced scanning with doubled field frequency. 4,672,446, 6-9-87, Cl. 358-140.000.
Ikeda, Yasunari: *See—*
Okada, Takashi; and Ikeda, Yasunari, 4,651,209, Cl. 358-140.000.
Ikeda, Yoneichi: *See—*
Miyauchi, Terukatsu; Ikeda, Yoneichi; Tashiro, Masaharu; and Kubota, Osamu, 4,668,378, Cl. 208-127.000.
Miyauchi, Terukatsu; Ikeda, Yoneichi; and Kikuchi, Tatsuji, 4,675,098, Cl. 208-127.000.
Ikeda, Yoshiaki, to Fanuc Ltd. Graphic display device. 4,646,228, 2-24-87, Cl. 364-192.000.
Ikeda, Yoshiaki, to Fanuc Ltd. Data transfer system for display. 4,661,812, 4-28-87, Cl. 340-799.000.
Ikeda, Yoshiaki, to Fanuc Ltd. Sequence controller. 4,663,730, 5-5-87, Cl. 364-900.000.
Ikeda, Yoshiaki, and Kuwasawa, Mitsuru, to Fanuc Ltd. Data transfer system for numerically controlled equipment. 4,682,167, 7-21-87, Cl. 340-825.230.
Ikeda, Yoshiaki: *See—*
Takeuchi, Toyoaki; Ohshima, Ken; Kenjyo, Hideyuki; Ikeda, Yoshiaki; and Sakamoto, Masaharu, 4,683,560, Cl. 369-45.000.
Ikeda, Yoshinori, to Canon Kabushiki Kaisha. Color image processing apparatus for generating color output signals and a black output signal in a mutually exclusive manner. 4,642,681, 2-10-87, Cl. 358-79.000.
Ikeda, Yoshinori, to Canon Kabushiki Kaisha. Color image reading apparatus. 4,667,227, 5-19-87, Cl. 358-75.000.
Ikeda, Yoshinori; and Aoki, Takao, to Canon Kabushiki Kaisha. Image forming device for reproducing a half-tone image. 4,680,646, 7-14-87, Cl. 358-298.000.
Ikeda, Yoshinori, to Canon Kabushiki Kaisha. Image processing apparatus for combining image and character data. 4,682,190, 7-21-87, Cl. 346-154.000.
Ikeda, Yoshinori: *See—*
Mita, Yoshinobu; and Ikeda, Yoshinori, 4,653,111, Cl. 382-69.000.
Ikeda, Yoshio, to Kabushiki Kaisha Toshiba. Washing machine. 4,711,104, 12-8-87, Cl. 68-23.00R.
Ikeda, Yuji: *See—*
Ohtani, Teruo; Tamura, Toshihisa; Ikeda, Yuji; Araikawa, Mitsuya; and Kywata, Kazuyoshi, 4,696,635, Cl. 425-330.000.
Ikeda, Yukihiro: *See—*
Arakawa, Tatsumi; Ozaki, Masaru; and Ikeda, Yukihiro, 4,701,317, Cl. 423-445.000.
Ikeda, Yutaka: *See—*
Ota, Toyokazu; Nakamura, Yutaka; Ikeda, Yutaka; Kataoka, Shunzi; and Ito, Yoshinobu, 4,639,291, Cl. 162-207.000.
Ikeda, Yuzo: *See—*
Ohue, Kazuto; Kondou, Toshiyuki; Takeuchi, Hisaharu; and Ikeda, Yuzo, 4,663,222, Cl. 428-224.000.
Ohue, Kazuto; Kondou, Toshiyuki; Takeuchi, Hisaharu; and Ikeda, Yuzo, 4,707,269, Cl. 210-651.000.
Ikedo, Masaru; Watari, Masafumi; Hayashi, Yoshiaki; Yamamoto, Osamu; and Tsutsui, Hiroshi, to Matsushita Electric Industrial Co., Ltd. Optical fiber for infrared transmission consisting essentially of high purity mixed crystal of thallium bromide and thallium iodide. 4,678,275, 7-7-87, Cl. 350-96.340.
Ikedo, Yuji; and Okajima, Takahiro, to Pioneer Electronic Corporation. Auto loading disc player. 4,641,298, 2-3-87, Cl. 369-77.100.
Ikegame, Hiroo; and Takahashi, Tadashi, to Kabushiki Kaisha Toshiba. Enclosed thyristor valve. 4,675,720, 6-23-87, Cl. 357-75.000.
Ikegami, Hiroo: *See—*
Machii, Akihiko; Ikegami, Hiroo; Ishinabe, Masao; Imazu, Katsuhiro; and Ueno, Hiroshi, 4,692,810, Cl. 358-256.000.
Ikegami, Masahiko: *See—*
Yamashita, Akihiko; Ikegami, Masahiko; and Hatanaka, Kaoru, 4,709,123, Cl. 174-52.00R.
Ikegami, Ryoichi; and Kojima, Hitoshi, to NGK Insulators, Ltd. Infrared ray heater. 4,703,154, 10-27-87, Cl. 219-345.000.
Ikegami, Tatsuji: *See—*
Sawada, Tadashi; Ikegami, Tatsuji; and Iguchi, Masashi, 4,708,5[illegible], Cl. 415-72.000.
Ikegami Tsushinki Co., Ltd.: *See—*
Akimoto, Taizo; and Nagai, Asaki, 4,701,800, Cl. 358-244.000.
Akimoto, Taizo; and Kawai, Masahiko, 4,709,268, Cl. 358-150.000.
Hidaka, Masanori, 4,671,505, Cl. 271-293.000.
Ikegami, Yoshiki; Matsumoto, Fumio; Sato, Yasuaki; and Hayakawa, Yoshio, to Fujitsu Limited. Word processing system for inserting characters into a series of characters. 4,663,731, 5-5-87, Cl. 364-900.000.
Ikegami, Yoshiki; Sato, Yasuaki; and Ishimaru, Mitsutoshi, to Fujitsu Limited. Method for obtaining common mode information and common field attribute information for a plurality of card images. 4,677,585, 6-30-87, Cl. 364-900.000.
Ikegami, Yuji: *See—*
Takahashi, Satoshi; Tsutsumi, Akira; Suzuki, Junji; Kumakura, Hiroshi; Ito, Takao; Ohsawa, Kenji; Ikegami, Yuji; Haruki, Muneyuki; Yasuda, Nobuyuki; and Ohta, Masayuki, 4,677,252, Cl. 174-68.500.
Ikegawa, Akihiko: *See—*
Yagihara, Morio; and Ikegawa, Akihiko, 4,659,651, Cl. 430-542.000.
Yagihara, Morio; and Ikegawa, Akihiko, 4,690,885, Cl. 430-212.000.
Ikegaya, Akihiko; and Tobioka, Masaaki, to Sumitomo Electric Industries, Ltd. Process for the production of a surface-coated article. 4,675,206, 6-23-87, Cl. 427-38.000.
Ikegaya, Isao; and Kawashima, Hatsuo, to Fuji Kiko Company, Limited. Seat slide device for automotive seat. 4,660,795, 4-28-87, Cl. 248-430.000.
Ikegaya, Kouji: *See—*
Fujii, Setsuro; Yokoyama, Touru; Ikegaya, Kouji; Yokoo, Nobuo; and Nagakura, Masahiko, 4,639,435, Cl. 514-11.000.
Ikegaya, Yuji: *See—*
Kakubo, Yuji; Niimi, Koji; and Ikegaya, Yuji, 4,706,291, Cl. 381-63.000.
Ikeguchi, Nobuyuki: *See—*
Gaku, Morio; Ikeguchi, Nobuyuki; and Kimbara, Hidenori, 4,645,805, Cl. 525-437.000.
Ikehata, Hiromi: *See—*
Motonami, Masanao; and Ikehata, Hiromi, 4,650,241, Cl. 296-187.000.
Ikehata, Tsutomu; Masuda, Katsuya; Yasunaga, Makoto; and Michioto, Takao, to Citizen Watch Co., Ltd. Printing head for use in dot printers. 4,687,355, 8-18-87, Cl. 400-124.000.
Ikehira, Junko: *See—*
Yasuda, Akira; Ikehira, Junko; Itoh, Kenji; Takasaki, Junsuke; and Tsunoyama, Kozou, 4,670,065, Cl. 148-2.000.
Ikejima, Hiroyuki, to Mitsubishi Denki Kabushiki Kaisha. Speed control apparatus for elevator. 4,681,191, 7-21-87, Cl. 187-119.000.
Ikejiri, Kenichi: *See—*
Furumoto, Mitsumasa; Yamaguchi, Kouji; Kawahara, Eiichiro; and Ikejiri, Kenichi, 4,646,520, Cl. 60-469.000.

ri, Masahisa: *See—*
Osafune, Haruo; Kanbe, Sadao; Mori, Teiichiro; and Ikejiri,
Masahisa, 4,680,045, Cl. 65-17.000.
iwa, Nobuo, to Taisho Pharmaceutical Co., Ltd. 1α,25-dihydroxy-
,27-dimethylcholecalciferol and its use in the treatment of calcium
thobolism. 4,711,881, 12-8-87, Cl. 514-167.000.
atsu, Hideaki; and Kawamoto, Masako. Sanitary urine collecting
paratus. 4,707,864, 11-24-87, Cl. 4-144.300.
atsu, Morio; and Hiranuma, Hiromichi, to Nippon Ball Valve Co.,
d. Clamp for use with top entry ball valve. 4,641,681, 2-10-87, Cl.
7-315.000.
atsu, Morio; Wada, Tohru; Nakanishi, Tohru; and Ishigami,
obuo, to Nippon Ball Valve Co., Ltd. Top entry ball valve and a
amp therefor. 4,658,978, 4-21-87, Cl. 251-315.000.
ori, Keiji, to Canon Kabushiki Kaisha. Small-sized wide angle
om objective. 4,647,160, 3-3-87, Cl. 350-426.000.
ori, Keiji; and Kato, Masatake, to Canon Kabushiki Kaisha. Zoom
s of the rear focusing type. 4,684,223, 8-4-87, Cl. 350-427.000.
ori, Keiji; Tanaka, Tsunefumi; and Kato, Masatake, to Canon
bushiki Kaisha. Zoom lens. 4,687,302, 8-18-87, Cl. 350-427.000.
ori, Keiji, to Canon Kabushiki Kaisha. Aberrational deterioration
evented zoom lens. 4,705,363, 11-10-87, Cl. 350-427.000.
ori, Keiji; and Koyama, Takeshi, to Canon Kabushiki Kaisha.
tical system of variable magnification. 4,707,103, 11-17-87, Cl.
4-403.000.
ori, Keiji: *See—*
Kato, Masatake; Ikemori, Keiji; Tanaka, Tsunefumi; and Tanaka,
Kazuo, 4,702,567, Cl. 350-427.000.
Kitagishi, Nozomu; Momiyama, Kikuo; Ikemori, Keiji; Takahashi,
Sadatoshi; and Tanaka, Tsunefumi, 4,639,096, Cl. 350-427.000.
Kitagishi, Nozomu; Takahashi, Sadatoshi; Ikemori, Keiji;
Momiyama, Kikuo; and Tanaka, Tsunefumi, 4,695,133, Cl.
350-427.000.
Matsushita, Takashi; Takahashi, Sadatoshi; Ikemori, Keiji; Kitagi-
shi, Nozomu; Tanaka, Tsunefumi; and Momiyama, Kikuo,
4,711,534, Cl. 350-426.000.
Tanaka, Tsunefumi; Ikemori, Keiji; Kitagishi, Nozomu; Takahashi,
Sadatoshi; and Momiyama, Kikuo, 4,666,257, Cl. 350-427.000.
oto, Hiroyuki; Oowa, Nobutaka; Hayashi, Yasutaka; and Doi,
unichi, to Toyota Jidosha Kabushiki Kaisha; and Toyota Central
search & Development Laboratories, Inc. System for vehicle body
l control utilizing steering angle detection. 4,693,493, 9-15-87, Cl.
0-707.000.
oto, Kazuhito; Terakura, Yukio; and Funato, Yasumichi, to
oyota Jidosha Kabushiki Kaisha. Gear synchronizer assembly for
wer transmission. 4,674,614, 6-23-87, Cl. 192-53.00F.
oto, Kazuhito, to Toyota Jidosha Kabushiki Kaisha. Power trans-
ssion with ancillary change-speed mechanism for extra-low-speed
ar train. 4,708,026, 11-24-87, Cl. 74-359.000.
oto, Yoshihiro; Kataoka, Jiro; Otsuki, Toshinori; and Nakamura,
kuji, to Matsushita Electric Industrial Co. Ltd. Facsimile appara-
. 4,701,810, 10-20-87, Cl. 358-296.000.
oto, Yoshihiro: *See—*
Nakamura, Takuji; Otsuki, Toshinori; Nagasawa, Takeshi; and
Ikemoto, Yoshihiro, 4,667,252, Cl. 358-286.000.
oto, Yoshiyuki: *See—*
Murai, Takaaki; Watanabe, Shoji; Inoue, Kimio; Isobe, Tomohisa;
Nakashima, Naoki; Miho, Takuya; and Ikemoto, Yoshiyuki,
4,663,429, Cl. 528-355.000.
oto, Yutaka; and Sawada, Ken, to Sharp Kabushiki Kaisha. Lan-
age translator with keys for marking and recalling selected stored
ords. 4,636,977, 1-13-87, Cl. 364-900.000.
ura, Akio; and Kajiki, Minoru, to Yoshida Kogyo K. K. Bay
ndow with ventilator. 4,643,246, 2-17-87, Cl. 165-54.000.
ura, Akio; and Kajiki, Minoru, to Yoshida Kogyo K.K. Multimode
ntilator. 4,646,813, 3-3-87, Cl. 165-54.000.
ura, Akio; and Kajiki, Minoru, to Yoshida Kogyo K.K. Thermally
sulated window with ventilation ducts. 4,654,024, 5-12-87, Cl.
-88.100.
ura, Hisao: *See—*
Takeuchi, Hitoshi; Yamada, Naoki; Ikemura, Hisao; and Suzuki,
Noriyasu, 4,676,189, Cl. 118-626.000.
ura, Yuichi; and Takano, Hiroshi, to Victor Company of Japan,
d. Automatic white balance adjusting circuit for image pickup
vice. 4,682,210, 7-21-87, Cl. 358-29.000.
aga, Osamu, to Tokyo Shibaura Denki Kabushiki Kaisha. Mark
sition detecting method and apparatus. 4,701,053, 10-20-87, Cl.
6-375.000.
aga, Shinichi: *See—*
Aoki, Masakazu; Nakagome, Yoshinobu; Horiguchi, Masashi;
Ozaki, Toshifumi; Shimohigashi, Katsuhiro; and Ikenaga, Shini-
chi, 4,636,985, Cl. 365-189.000.
Aoki, Masakazu; Nakagome, Yoshinobu; Horiguchi, Masashi;
Ikenaga, Shinichi; and Shimohigashi, Katsuhiro, 4,661,929, Cl.
365-189.000.
Aoki, Masakazu; Horiguchi, Masashi; Nakagome, Yoshinobu;
Ikenaga, Shinichi; Shimohigashi, Katsuhiro; Masuhara, Toshiaki;
Itoh, Kiyoo; Nakamura, Hideo; and Minato, Osamu, 4,701,884,
Cl. 365-189.000.
Nakagome, Yoshinobu; Aoki, Masakazu; Horiguchi, Masashi;
Shimohigashi, Katsuhiro; and Ikenaga, Shinichi, 4,709,350, Cl.
365-45.000.
aga, Takao; Shigematsu, Toshifumi; Hamanaka, Tatsumi; and
irahara, Manabu, to Toto Ltd. Lavatory hopper flushing apparatus.
667,350, 5-26-87, Cl. 4-304.000.

Ikenaga, Takao: *See—*
Taki, Masaru; Okada, Hiroshi; Kawamura, Seijiro; Kusumoto, Akio; Morita, Koji; Ikenaga, Takao; Shigematsu, Toshifumi; and Iida, Masami, 4,692,951, Cl. 4-664.000.
Ikenaka, Tokuji; and Omichi, Kaoru, to Wako Pure Chemical Industries, Ltd. Modified oligosaccharides used as substrate for measuring α-amylase activity. 4,697,006, 9-29-87, Cl. 536-17.200.
Ikeno, Hiroshige: *See—*
Kishi, Matsuo; Ogawa, Kenichi; and Ikeno, Hiroshige, 4,699,850, Cl. 428-469.000.
Ikeno, Hitoshi: *See—*
Moritani, Nakanobu; Sugita, Mitsuyuki; Hoshino, Isamu; Yanagi, Hirofumi; Ikeno, Hitoshi; and Konno, Tetsuro, 4,709,218, Cl. 331-116.0FE.
Ikeno, Yoshiko: *See—*
Horino, Hiroshi; Ohnaka, Michiro; Hayashi, Atsushi; and Ikeno, Yoshiko, 4,684,737, Cl. 549-240.000.
Ikeno, Yoshimitsu: *See—*
Sadakata, Nobuyuki; Ikeno, Yoshimitsu; Sugimoto, Masaru; and Kohno, Osamu, 4,665,611, Cl. 29-599.000.
Ikenoue, Shinpei; Mikawa, Akikazu; and Ichijima, Seiji, to Fuji Photo Film Co., Ltd. Silver halide color photographic light-sensitive materials comprising combination of color-forming coupler and colored coupler. 4,647,527, 3-3-87, Cl. 430-505.000.
Ikenoue, Yoshikazu: *See—*
Ito, Masazumi; Irie, Yutaka; Ikenoue, Yoshikazu; and Nakamura, Minoru, 4,669,858, Cl. 355-8.000.
Tohdai, Akiyoshi; Yamada, Hirokazu; Ikenoue, Yoshikazu; and Ishikawa, Takuma, 4,638,992, Cl. 271-293.000.
Ikenoue, Yutaka; Endoh, Hiroyuki; Ishii, Kei; and Suzuki, Keitaro, to Hitachi Powdered Metals Co., Ltd. Iron base sintered, wear-resistant materials and method for producing the same. 4,648,903, 3-10-87, Cl. 75-230.000.
Ikenoue, Yutaka: *See—*
Takagi, Yoshiaki; Katsui, Yoshihiro; Endo, Hiroyuki; and Ikenoue, Yutaka, 4,702,771, Cl. 75-241.000.
Ikenoya, Yasuo: *See—*
Tanaka, Kunihiko; Ochiai, Hideo; and Ikenoya, Yasuo, 4,671,781, Cl. 474-93.000.
Ikeou, Shinnei: *See—*
Yamauchi, Noriaki; Ikeou, Shinnei; and Imada, Kunihiko, 4,693,725, Cl. 8-527.000.
Ikeshima, Tetsuro: *See—*
Sakano, Kenji; Aketa, Masahiro; Ikeshima, Tetsuro; Hataura, Kiyoshi; Sakanaka, Hiroo; and Yamashita, Masahiro, 4,703,729, Cl. 123-308.000.
Ikesue, Masumi; and Ikeda, Takashi, to Ricoh Company, Ltd. Developer supply device for dry process electrophotographic copier. 4,641,945, 2-10-87, Cl. 355-3.0DL.
Ikesue, Masumi; and Takahashi, Yasuhiro, to Ricoh Company, Ltd. Sheet aligning device. 4,657,239, 4-14-87, Cl. 271-227.000.
Ikesue, Masumi: *See—*
Hirakura, Koji; and Ikesue, Masumi, 4,700,659, Cl. 118-652.000.
Iketani, Akira: *See—*
Juri, Tatsuro; Iketani, Akira; Yamamitsu, Chojuro; and Ide, Akifumi, 4,691,329, Cl. 375-122.000.
Iketani, Kohichi: *See—*
Tanimoto, Yoshio; and Iketani, Kohichi, 4,708,992, Cl. 525-313.000.
Ikeuchi, Hiroji; and Ikeuchi, Kiyoaki, to Kabushiki Kaisha Ikeuchi Tekkosho. Method for producing a food product simulating shellfish. 4,692,341, 9-8-87, Cl. 426-250.000.
Ikeuchi, Kazuo: *See—*
Sasada, Tetsuo; Sato, Takeshi; Urushidani, Haruo; Hisano, Katsukuni; Kaneko, Ryoichi; Ikeuchi, Kazuo; and Tsuji, Kunio, 4,662,820, Cl. 415-170.00R.
Ikeuchi, Kiyoaki: *See—*
Ikeuchi, Hiroji; and Ikeuchi, Kiyoaki, 4,692,341, Cl. 426-250.000.
Ikeuchi, Masaki: *See—*
Iijima, Hitoshi; Tanaka, Naoki; and Ikeuchi, Masaki, 4,671,075, Cl. 62-196.100.
Yumikura, Tsuneo; Ikeuchi, Masaki; Nakao, Kazushige; and Ozaki, Eiichi, 4,651,819, Cl. 165-115.000.
Ikeuchi, Satoru: *See—*
Watanabe, Kazumasa; Ikeuchi, Satoru; Sasaki, Osamu; and Hirose, Naohiro, 4,647,520, Cl. 430-58.000.
Ikeuchi, Satoshi; and Taniguchi, Ikuo, to Fujitsu Limited. Protection switching system for carrier transmission line. 4,680,776, 7-14-87, Cl. 375-40.000.
Ikeya, Hirotoshi; and Higashi, Michiya, to Kabushiki Kaisha Toshiba. Resin encapsulation type semiconductor device by use of epoxy resin composition. 4,710,796, 12-1-87, Cl. 357-72.000.
Ikeya, Kiyokazu: *See—*
Ezura, Toyokazu; Katsumata, Fujio; and Ikeya, Kiyokazu, 4,715,823, Cl. 439-267.000.
Ikeyama, Norio; Yoshioka, Noriaki; Tamaru, Shusaku; and Ichinose, Hisashi, to Nitto Electric Industrial Co., Ltd. Tubular membrane ultrafiltration module. 4,707,261, 11-17-87, Cl. 210-433.200.
Ikeyama, Takeshi, to Aisin Seiki Kabushiki Kaisha. Vehicle-loaded heartbeat meter. 4,664,127, 5-12-87, Cl. 128-689.000.
Ikeyama, Takeshi, to Aisin Seiki Kabushiki Kaisha. Human condition monitoring and security controlling apparatus on a road-vehicle. 4,706,072, 11-10-87, Cl. 340-576.000.
Ikeyama, Toshiharu: *See—*
Morita, Tsuneharu; Ikeyama, Toshiharu; Iwaki, Osamu; and Katsuta, Hisao, 4,705,445, Cl. 414-280.000.

Ikezaki, Takashi: *See—*
  Naitoh, Kazumi; Ikezaki, Takashi; and Shimodaira, Saburo, 4,648,010, Cl. 361-433.000.
Ikezaki, Yasuo; Matsuoka, Tadashi; and Mitani, Kazuyuki, to Toshiba Tungaloy Co., Ltd.; Science & Creative Co., Ltd., and Toyomitsu Kogyo, Co., Ltd. Anti-clogging device for grinding wheel. 4,712,334, 12-15-87, Cl. 51-262.00A.
Ikezawa, Harumi: *See—*
  Miyazaki, Haruhiko; Hirai, Koichi; Uda, Taizo; Nakamura, Yasuo; Ikezawa, Harumi; and Tsuchie, Takanori, 4,647,551, Cl. 502-200.000.
Ikezue, Tatsuya: *See—*
  Yoshizawa, Shuji; Mitani, Wataru; Yamamoto, Mariko; Sanjoh, Akira; and Ikezue, Tatsuya, 4,678,731, Cl. 430-65.000.
  Yoshizawa, Shuji; Mitani, Wataru; Yamamoto, Mariko; Sanjoh, Akira; and Ikezue, Tatsuya, 4,713,308, Cl. 430-65.000.
Iki, Makoto: *See—*
  Une, Atsunobu; Iki, Makoto; Takeuchi, Nobuyuki; and Deguchi, Kimiyoshi, 4,656,347, Cl. 250-201.000.
Ikimi, Kiyoshi: *See—*
  Sato, Hiroshi; Ikimi, Kiyoshi; Tojima, Hideto; and Takahashi, Mikoto, 4,709,112, Cl. 585-513.000.
Ikimi, Yoshihiro; and Tsukada, Osamu, to Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Fluid-operated cylinder with cushioning flow rate control valve means. 4,706,781, 11-17-87, Cl. 187-9.00E.
Ikimi, Yoshihiro: *See—*
  Sakata, Masataka; Takasu, Shigeo; and Ikimi, Yoshihiro, 4,683,987, Cl. 187-9.00E.
Ikita, Takao: *See—*
  Deguchi, Takenori; Uchida, Kazuko; Ikita, Takao; Maruhaski, Shigeaki; Hoshino, Kazuo; and Oosaki, Keiji, 4,696,724, Cl. 204-27.000.
Iknadossian, Leon. Organic car wash containing raw potato juice. 4,702,856, 10-27-87, Cl. 252-170.000.
IKO Kabel AB: *See—*
  Persson, Karl-Gustav, 4,693,422, Cl. 239-195.000.
Ikoma, Hideto: *See—*
  Shibahara, Yoshihiko; and Ikoma, Hideto, 4,680,253, Cl. 430-504.000.
Ikoma, Hideyuki: *See—*
  Kinoshita, Takeo; Ikoma, Hideyuki; and Tsunooka, Tsutomu, 4,704,373, Cl. 501-136.000.
Ikoma, Kazuhiko: *See—*
  Okuno, Akiyasu; Watanabe, Masakazu; and Ikoma, Kazuhiko, 4,695,517, Cl. 428-698.000.
Ikoma, Kenji: *See—*
  Miyake, Katsunobu; Horii, Hiroshi; and Ikoma, Kenji, 4,669,499, Cl. 137-375.000.
Ikoma, Toshiaki; Maeda, Hajime; Yanai, Hisayoshi; Dang, Ryo; and Shigyo, Naoyuki, to Ikoma, Toshiaki; and Tokyo Shibaura Denki Kabushiki Kaisha. Voltage-controlled type semiconductor switching device. 4,636,824, 1-13-87, Cl. 357-23.140.
Ikoma, Toshiaki: *See—*
  Iwasaki, Tamotsu; Ikoma, Toshiaki; and Okumura, Tsugunori, 4,648,095, Cl. 372-44.000.
IKU Holding Montfoort B.V.: *See—*
  Koot, Hermanus M. I.; and Oskam, Aane A., 4,670,679, Cl. 310-99.000.
Ikuchi, Nozomu: *See—*
  Tawada, Yoshihisa; Nakayama, Takehisa; Tai, Masahiko; and Ikuchi, Nozomu, 4,664,890, Cl. 422-186.050.
Ikuma, Akira: *See—*
  Mizuno, Yoshikazu; Gonda, Katsumi; Ikuma, Akira; and Ochiai, Takeshi, 4,650,020, Cl. 180-176.000.
  Mizuno, Yoshikazu; Ninoyu, Yutaka; Suzuki, Motoyoshi; and Ikuma, Akira, 4,658,150, Cl. 307-10.00R.
Ikuma, Sadao, to Mitsubishi Monsanto Chemical Company. Method for production of copolymer of vinyl cyanide compound and aromatic vinyl compound. 4,713,429, 12-15-87, Cl. 526-87.000.
Ikura, Hiroshi: *See—*
  Suzuki, Yoshiki; Ikura, Hiroshi; Yamashita, Gentaro; and Nagai, Tsuneji, 4,715,369, Cl. 128-156.000.
Ikura, Katsuyata; Hagiwara, Kenji; Nagasaki, Fumihiko; Yamada, Tomio; Takahashi, Hidemitsu; and Hatano, Renpei, to Nippon Soda Co., Ltd. Benzoylurea derivatives. 4,713,396, 12-15-87, Cl. 514-594.000.
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Ikushima, Kazuo: *See—*
  Takeuchi, Kazumasa; Iwadachi, Takaharu; and Ikushima, Kazuo, 4,696,704, Cl. 148-412.000.
Ikushima, Koichiro: *See—*
  Utsumi, Shigeo; Kanesaki, Tateo; Kagiyama, Takashi; Otonari, Satoshi; Ikushima, Koichiro; and Okumura, Norio, 4,708,902, Cl. 428-141.000.
Ikuta, Eishi: *See—*
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Ikuta, Kunio; and Yamada, Katsunori, to Dainippon Screen Mfg. Co., Ltd. Halftone dot formation. 4,673,971, 6-16-87, Cl. 358-75.000.
Ikuta, Kunio, to Dainippon Screen Mfg. Co., Ltd. Method of and apparatus for forming the address signals of a screen memory of a half tone dot generator. 4,692,879, 9-8-87, Cl. 364-518.000.
Ikuta, Masaki: *See—*
  Shiraishi, Masazumi; and Ikuta, Masaki, 4,677,524, Cl. 361-335.00
Ikuta, Takashi: *See—*
  Shimizu, Ryuichi; and Ikuta, Takashi, 4,712,687, Cl. 358-138.00
Ikuta, Yoshihisa, to Mita Industrial Co., Ltd. Photocopier permitting recording and editing of documents. 4,655,577, 4-7-87, Cl. 355-3.00R
Ikuzaki, Kunihiko, to Hitachi, Ltd. Dynamic MOS random acces memory. 4,636,989, 1-13-87, Cl. 365-222.000.
Ikuzaki, Kunihiko: *See—*
  Shimohigashi, Katsuhiro; Masuda, Hiroo; Ikuzaki, Kunihiko; an Kawamoto, Hiroshi, 4,646,267, Cl. 365-189.000.
  Shimohigashi, Katsuhiro; Masuda, Hiroo; Ikuzaki, Kunihiko; an Kawamoto, Hiroshi, 4,709,353, Cl. 365-205.000.
Ikuzawa, Masanori: *See—*
  Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,637,998, Cl. 514-42.000.
  Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,649,133, Cl. 514-42.000.
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ILAPAK Research & Development S.A.: *See—*
  Klinkel, Wolfgang, 4,713,047, Cl. 493-34.000.
ILC Technology, Inc.: *See—*
  Ray, David J., 4,649,267, Cl. 250-205.000.
  Roberts, Roy D., 4,658,179, Cl. 313-113.000.
  Roberts, Roy D., 4,702,716, Cl. 445-26.000.
Ilco-Unican Corp: *See—*
  Fish, Aaron M.; and Dausseing, Jean-Paul, 4,643,007, C 70-134.000.
Ilco-Unican Corp.: *See—*
  Fish, Aaron M.; Mazoff, Stanley S.; D'Intino, Adamo M.; an Somasundaram, Hariharan, 4,640,110, Cl. 70-269.000.
  Fish, Aaron M.; and Somasundaram, Hariharan, 4,663,953, C 70-380.000.
Ilderem, Vida: *See—*
  Reif, L. Rafael; Tedrow, Prabha K.; and Ilderem, Vida, 4,668,53 Cl. 427-55.000.
Iles, Lawrence F.; and Goplen, Gary D., to Nelson Industries, Inc Particulate trap exhaust muffler. 4,712,643, 12-15-87, Cl. 181-231.00
Ilex Corporation: *See—*
  Conover, Gilbert; Minior, Thaddeus; and Willis, John P., 4,713,16 Cl. 204-403.000.
Iliff, Michael D.: *See—*
  Iwasaki, Dean H.; and Iliff, Michael D., 4,668,634, Cl. 436-68.00
Ilin, Vladimir M.: *See—*
  Lidorenko, Nikolai S.; Gorun, Viktor T.; Muchnik, Grigory F. Karichev, Zia R.; Shteinberg, Alexandr N.; Lev, Mikhail B. Moiseev, Viktor I.; Schegolev, Igor S.; Ilin, Vladimir M.; and Smirnov, Igor I., 4,666,668, Cl. 422-48.000.
Iljushin, Alexei F.: *See—*
  Bragin, Boris F.; Iljushin, Alexei F.; Kolosov, Vladimir V.; Kukov, Mikhail A.; Markuntovich, Felix D.; Ryabenko, Boris Z. and Ekber, Boris Y., 4,671,487, Cl. 251-84.000.
Ilk, Emil. Drinking glass having a press-molded stem and a base (or pedestal). 4,681,236, 7-21-87, Cl. 215-99.500.
Illakowicz, Jan, to McDermott Incorporated. Flexible conductor for welding. 4,675,473, 6-23-87, Cl. 174-68 [illegible]R.
Illemann, Heinrich; and Heinricher, Gustav M., to Osterreichisch-Amerikanische Magnesit Aktiengesellschaft. Apparatus for introducing gas to molten metal within a vessel. 4,657,226, 4-14-87, Cl. 266-220.000.
Illerhaus, Roland: *See—*
  Voelz, Dieter; and Illerhaus, Roland, 4,690,228, Cl. 175-24.000.
Illg, Thomas, to ITT Industries, Inc. Control arrangement for a vehicle seat adjusting mechanism having a self checking, reduced terminal microcomputer. 4,660,140, 4-21-87, Cl. 364-184.000.
Illger, Hans-Walter: *See—*
  Haas, Peter; Freitag, Hans-Albrecht; Avar, Geza; Sommerfeld, Claus-Dieter; and Illger, Hans-Walter, 4,644,017, Cl. 521-129.000.
Illgner, Wolfram, to Philipp Holzmann AG. Cryogenic wedge-type anchor for stranded tension cables. 4,662,134, 5-5-87, Cl. 52-223.00R
Illig, Egon; and Kniep, Volkmar, to Fraunhofer-Gesellschaft zur Forderung der angewandten Forschung e.V. Apparatus for separating and conveying sheet-like articles. 4,709,912, 12-1-87, Cl. 271-42.00
Illig, Heinz-Peter: *See—*
  Gilljam, Hans N.; Chardon, Manfred; Gebald, Gregor; and Illig, Heinz-Peter, 4,702,433, Cl. 242-118.100.
Illingworth, Lewis: *See—*
  Rhyne, Earl C.; and Illingworth, Lewis, 4,636,927, Cl. 363-15.00
Illinois Bell Telephone Company: *See—*
  Boland, Donald P.; Menz, William; and Seimetz, Glen R. 4,635,983, Cl. 293-111.100.

Breck, Steven E.; and Armbruster, George E., 4,659,126, Cl. 294-93.000.
ois Foundation Seeds, Inc.: See—
Eberle, Ray, 4,716,280, Cl. 235-98.00C.
ois Institute of Technology: See—
Senkan, Selim M., 4,714,796, Cl. 585-328.000.
is Tool Works Inc.: See—
Bettini, John E., 4,693,654, Cl. 411-387.000.
Bishop, Bernard F., 4,703,880, Cl. 226-172.000.
Blucher, William J.; Ernst, Richard J.; and Peterson, Francis C., 4,642,012, Cl. 411-371.000.
Boeckmann, Hugo; Huff, Glenn E.; and Tilman, Paul A., 4,708,245, Cl. 206-330.000.
Briggs, Paul C.; and Gosiewski, Donald E., 4,714,730, Cl. 524-321.000.
Broomfield, Donald J.; Briggs, Paul C.; Parker, Eric G.; and Wagner, David P., 4,715,316, Cl. 118-716.000.
Cearlock, Steven V.; Peterson, Francis C.; and Kunos, Gene S., 4,657,626, Cl. 156-580.000.
Cearlock, Steven V.; Peterson, Francis C.; and Kunos, Gene S., 4,676,707, Cl. 411-510.000.
Diener, Walter C.; Gaubatz, Tommy L.; and Stiefel, Michael S., 4,699,305, Cl. 226-170.000.
Dumbovic, Steve; and Dempsky, Mark A., 4,707,782, Cl. 364-200.000.
Engstrom, Keith A., 4,704,601, Cl. 340-365.00E.
Erickson, David A., 4,709,889, Cl. 248-74.500.
Gueick, Volker, 4,683,675, Cl. 49-181.000.
Gugle, James E.; and Peek, Brian R., 4,636,124, Cl. 411-82.000.
Gugle, James E., 4,650,044, Cl. 188-322.210.
Hasan, Riaz, 4,663,910, Cl. 52-410.000.
Hasan, Riaz, 4,712,959, Cl. 411-533.000.
Heath, James G., 4,692,572, Cl. 200-17.00R.
Hewison, George D.; and Harris, Terence E., 4,712,802, Cl. 277-212.00C.
Klygis, Mindaugas J., 4,691,860, Cl. 229-52.00A.
Kobetsky, Robert G., 4,704,799, Cl. 33-179.50R.
Oddenino, Manrico, 4,712,703, Cl. 220-210.000.
Ollivier, Jean; and Almeras, Roland, 4,678,385, Cl. 411-456.000.
Peterson, Francis C.; Rodseth, William G.; and Spring, William A., 4,652,971, Cl. 361-386.000.
Peterson, Francis C., 4,662,227, Cl. 73-834.000.
Pliml, Frank V., 4,636,603, Cl. 200-296.000.
Rapata, George M.; and Albrecht, Jeffrey C., 4,653,968, Cl. 411-247.000.
Rayburn, Charles C., 4,648,006, Cl. 361-309.000.
Ruehl, William E.; Heidorn, Richard H.; and Swick, E. Grant, 4,654,743, Cl. 361-111.000.
Schavilje, John N.; and Swick, E. Grant, 4,655,423, Cl. 248-71.000.
Sharp, Larry L., 4,704,505, Cl. 200-61.080.
Singery, Denis C.; and Gordon, Ronald O., 4,692,154, Cl. 604-172.000.
Swain, Henry L., 4,685,562, Cl. 206-328.000.
Swick, E. Grant; and McCully, Peter K., 4,655,000, Cl. 47-44.000
Terrell, Kym A.; and Lance, Mark A., 4,662,040, Cl. 24-625.000.
Udelhofen, Mark J.; and Flood, David T., 4,665,590, Cl. 24-115.00H.
Wyckoff, Stephen G., 4,701,984, Cl. 24-573.000.
, Herbert: See—
Schmitt, Manfred; and Illius, Herbert, 4,643,219, Cl. 137-454.600.
Barbara D. Infusion package. 4,680,185, 7-14-87, Cl. 426-83.000.
inated Data, Inc.: See—
Erbert, Virgil, 4,638,110, Cl. 136-246.000.
rato, Vito I. Spring heel for shoe and the like. 4,638,575, 1-27-87,
36-38.000.
n, Vincent A.; Kutzavitch, Walter G.; and Rooney, Allen J., III, to
nerican Telephone and Telegraph Company; and AT&T Informa-
n Systems Inc. Self-oscillating switching regulator having real-
e current adjustment control. 4,642,550, 2-10-87, Cl. 323-222.000.
Ernesto, to Illycaffe S.p.A. Apparatus for monitoring a stream of
mminuted solid material. 4,708,485, 11-24-87, Cl. 356-440.000.
Hugo; Schliebs, Bjorn; and Hess, Wilhelm, to Ciba-Geigy Corpora-
n. Process for the preparation of cyclic phosphites. 4,692,540,
-87, Cl. 558-78.000.
affe S.p.A.: See—
lly, Ernesto, 4,708,485, Cl. 356-440.000.
Suggi-Liverani, Furio; Maughan, William S.; and Wainwright, Ronald C., 4,699,273, Cl. 209-580.000.
niemi, Erkki; Koskimies, Jouni; Lyytinen, Markku; Pitkajarvi,
ri; and Ottelin, Esa, to Valmet Oy. Method and apparatus for
ntrolling distortion of fibre orientation in a paper web. 4,687,548,
18-87, Cl. 162-216.000.
S.p.A.: See—
Merla, Adriano, 4,700,509, Cl. 49-487.000.
ann, Bernhard: See—
von Sivers, Rolf; Havemann, Kim; and Ilsemann, Bernhard, 4,690,238, Cl. 180-248.000.
ann, Heino. Method and apparatus for introducing compact disks
o compact disk boxes. 4,685,277, 8-11-87, Cl. 53-474.000.
Rumult, to Alexander, Ranya L. Moisture sensor. 4,683,904,
-87, Cl. 137-78.300.
Rumult: See—
Breley, Richard L.; and Iltis, Rumult, 4,657,039, Cl. 137-78.300
ova, Nelli I.: See—
Martyshenko, Jury P.; Martyshenko, Sergei J.; Kotelnikov, Jury S.; Kutukhtin, Evgeny G.; Ilyasova, Nelli I.; Volkov, Jury S.; Vardanian, Armenak M.; and Petrosian, Misha S., 4,701,075, Cl. 405-217.000.
Im, Byung-Do; and Spector, George. Shoe case. 4,667,817, 5-26-87, Cl. 206-204.000.
Im, Wha S.: *See—*
Kang, Yun H.; Im, Wha S.; and Lee, Kil S., 4,642,998, Cl. 62-187.000.
IMA-Industrie Macchine Automatiche SpA: *See—*
Grazia, Alessandro, 4,650,075, Cl. 206-526.000.
Imachi, Takao: *See—*
Moriya, Masafumi; Hosoda, Kazuo; Nishimura, Akira; and Imachi, Takao, 4,670,160, Cl. 210-728.000.
Moriya, Masafumi; Hosoda, Kazuo; Nishimura, Akira; and Imachi, Takao, 4,670,180, Cl. 252-180.000.
Imada, Eiji: *See—*
Ehara, Shaw; Kojima, Yoshimi; Imada, Eiji; Hayakawa, Takashi; and Matsuyama, Toshiro, 4,687,724, Cl. 430-84.000.
Kojima, Yoshimi; Narikawa, Shiro; Hayakawa, Takashi; Nojima, Hideo; Imada, Eiji; Matsuyama, Toshiro; and Ehara, Shaw, 4,666,816, Cl. 430-128.000.
Imada, Haruhiko: *See—*
Takenaka, Takaji; Watanabe, Hideki; and Imada, Haruhiko, 4,706,165, Cl. 361-403.000.
Imada, Kiyoshi: *See—*
Asai, Michihiko; Shimura, Yukio; Tsuda, Keishiro; Ueno, Susumu; Nomura, Hirokazu; and Imada, Kiyoshi, 4,639,379, Cl. 427-40.000.
Imada, Kunihiko: *See—*
Nakamatsu, Toshio; Matsuo, Yoshikazu; Nishikuri, Masao; and Imada, Kunihiko, 4,690,686, Cl. 8-638.000.
Nakamatsu, Toshio; Miyamoto, Tetsuya; and Imada, Kunihiko, 4,711,641, Cl. 8-524.000.
Yamauchi, Noriaki; Ikeou, Shinnei; and Imada, Kunihiko, 4,693,725, Cl. 8-527.000.
Imade, Shinichi; and Karaki, Kouichi, to Olympus Optical Co., Ltd. Sample stand adjusting device in an ultrasonic microscope. 4,683,751, 8-4-87, Cl. 73-606.000.
Imaeda, Fumihiro; and Imaeda, Yoshio, to Shin Nihon Kohan Co., Ltd. Modular panel for mold. 4,695,033, 9-22-87, Cl. 249-189.000.
Imaeda, Yoshio: *See—*
Imaeda, Fumihiro; and Imaeda, Yoshio, 4,695,033, Cl. 249-189.000.
IMAG-Verlage AG fur Immaterialguterrecht: *See—*
Petschner, Goetz, 4,710,967, Cl. 383-8.000.
Imagawa, Koji: *See—*
Akiyama, Shigeru; Ueno, Hidetoshi; Imagawa, Koji; Kitahara, Akira; Nagata, Sumio; Morimoto, Kazuo; Nishikawa, Tooru; and Itoh, Masao, 4,713,277, Cl. 428-131.000.
Imagawa, Takashi; Yokoyama, Kazumasa; and Mizushima, Yutaka, to Green Cross Corporation, The; and Taisho Pharmaceutical Co., Ltd. Phospholipid-emulsified prostaglandin composition. 4,684,633, 8-4-87, Cl. 514-78.000.
Imagawa, Takeshi: *See—*
Hagiwara, Tatsuo; Imai, Keiji; Nagaoka, Shigenori; Kogumazaka, Shinji; Yahagi, Kyoichi; Imagawa, Takeshi; Ishii, Hidenaga; and Kikuchi, Toshitsugu, 4,645,133, Cl. 241-182.000.
Hagiwara, Tatsuo; Imai, Keiji; Nagaoka, Shigenori; Kogumazaka, Shinji; Yahagi, Kyoichi; Imagawa, Takeshi; Ishii, Hidenaga; and Kikuchi, Toshitsugu, 4,664,321, Cl. 241-176.000.
Imai, Keiji; Nagaoka, Shigenori; Kogumazaka, Shinji; Imagawa, Takeshi; Ishii, Hidenaga; and Kikuchi, Toshitsugu, 4,666,591, Cl. 209-38.000.
Imagawa, Toshiyuki, to Toyota Jidosha Kabushiki Kaisha. Construction of door in motor vehicle. 4,651,483, 3-24-87, Cl. 52-212.000.
Image Graphics, Inc.: *See—*
Tarnowski, Andrew A., 4,651,171, Cl. 346-110.00V.
Image Systems, Inc.: *See—*
Yawn, Gary W.; and Hartwig, Richard P., 4,650,997, Cl. 250-236.000.
Image Technology Incorporated: *See—*
Beg, Mirza R.; Perl, Julius; and Malcolm, Ronald D., Jr., 4,688,095, Cl. 358-160.000.
Imahashi, Jinichi: *See—*
Takeuchi, Seizi; Kamo, Tomoichi; Horiba, Tatsuo; Kitami, Kunko; Mori, Toshikatsu; Kahara, Toshiki; Imahashi, Jinichi; Honji, Akio; Takeuchi, Masato; and Tamura, Kohki, 4,643,957, Cl. 429-41.000.
Imahashi, Satoshi: *See—*
Fujimura, Toshiaki; Katoh, Yoshio; Imahashi, Satoshi; Seto, Koichi; and Tanaka, Shinichi, 4,699,859, Cl. 430-18.000.
Imahashi, Takahiro. Work holding device in work grinding and polishing machine. 4,667,446, 5-26-87, Cl. 51-229.000.
Imahashi, Toshiaki: *See—*
Innami, Tatsuo; Koizumi, Katuo; Imahashi, Toshiaki; and Matsumoto, Kihachiro, 4,669,190, Cl. 30-273.000.
Imai, Akihiro; Shimizu, Tokihiko; and Taguchi, Nobuyoshi, to Matsushita Electric Industrial Co., Ltd. Color sheets for thermal transfer printing. 4,684,561, 8-4-87, Cl. 428-141.000.
Imai, Akio; Okamoto, Yasushi; and Saito, Masatoshi, to Sumitomo Chemical Company, Limited. Process for producing polystyrene. 4,639,494, 1-27-87, Cl. 525-271.000.
Imai, Akio; Okamoto, Yasushi; and Saito, Masatoshi, to Sumitomo Chemical Company, Limited. Polybutadiene and process for preparing the same. 4,710,554, 12-1-87, Cl. 526-180.000.
Imai, Akio: *See—*
Takao, Hiroyoshi; Yoshida, Nobuyuki; and Imai, Akio, 4,647,614, Cl. 524-526.000.

Imai, Chichiro, legal representative: *See—*
  Makishima, Tokuo, deceased; Makishima, Nobuko, legal representative; Ueki, Satoshi, legal representative; and Imai, Chichiro, legal representative, 4,705,830, Cl. 525-333.400.
Imai, Chihiro: *See—*
  Kato, Masayuki; Taguchi, Yoshio; Imai, Chihiro; and Makishima, Tokuo, deceased, 4,683,275, Cl. 526-262.000.
  Kohora, Tadanao; Ueki, Satoshi; Tachikawa, Mamoru; Imai, Chihiro; and Makishima, Tokuo, deceased, 4,647,550, Cl. 502-115.000.
  Niwa, Tadashi; Kato, Masayuki; Taguchi, Yoshio; and Imai, Chihiro, 4,704,438, Cl. 525-333.300.
  Tachikawa, Mamoru; Ueki, Satoshi; Sakuma, Masato; Imai, Chihiro; and Makishima, Tokuo, 4,678,767, Cl. 502-104.000.
  Tachikawa, Mamoru; Sakuma, Masato; Ueki, Satoshi; Imai, Chihiro; and Makishima, Tokuo, 4,686,199, Cl. 502-104.000.
  Ueki, Satoshi; Imai, Chihiro; and Makishima, Tokuo, deceased, 4,704,433, Cl. 525-242.000.
Imai, Eiichi; Uchiyama, Masaki; Urawa, Motoo; and Yamamoto, Atsuko, to Canon Kabushiki Kaisha. Method for developing electrostatic latent image with non-magnetic toner. 4,666,815, 5-19-87, Cl. 430-126.000.
Imai, Eiichi; Sakashita, Kiichiro; Takagi, Seiichi; and Kukimoto, Tsutomu, to Canon Kabushiki Kaisha. Electrophotographic method uses toner of polyalkylene and non-magnetic inorganic fine powder. 4,702,986, 10-27-87, Cl. 430-120.000.
Imai, Eiichi: *See—*
  Fukumoto, Hiroshi; Tanaka, Katsuhiko; and Imai, Eiichi, 4,657,838, Cl. 430-110.000.
  Ikeda, Takeshi; Imai, Eiichi; Fukumoto, Hiroshi; Tanaka, Katsuhiko; Suematsu, Koshi; Urawa, Motoo; and Takenouchi, Masanori, 4,663,263, Cl. 430-110.000.
  Suematsu, Koshi; and Imai, Eiichi, 4,680,245, Cl. 430-110.000.
Imai, Hajime: *See—*
  Ishikawa, Hiroshi; Takagi, Nobuyuki; and Imai, Hajime, 4,675,710, Cl. 357-17.000.
Imai, Hayato: *See—*
  Tsutsui, Yoshio; Nakamura, Kiyoshi; Kimura, Akira; Imai, Hayato; Tamura, Kaoru; and Miura, Shozuchi, 4,700,283, Cl. 363-68.000.
Imai, Hideki; and Sasaki, Minoru, to Kabushiki Kaisya Advance Kaihatsu Kenkyujo. Physiological signals processing system. 4,633,884, 1-6-87, Cl. 128-696.000.
Imai, Hideki: *See—*
  Kiyama, Seiichi; and Imai, Hideki, 4,650,524, Cl. 148-1.500.
  Kiyama, Seiichi; Kihara, Hitoshi; and Imai, Hideki, 4,668,840, Cl. 136-244.000.
Imai, Hironobu: *See—*
  Naito, Katsumi; and Imai, Hironobu, 4,671,468, Cl. 242-76.000.
Imai, Hiroshi; and Yoshioka, Kouichi, to Mitsubishi Denki Kabushiki Kaisha. Sealed disc drive assembly with internal air filter. 4,710,830, 12-1-87, Cl. 360-97.000.
Imai, Hiroshi: *See—*
  Ichikawa, Yataro; Yoshisato, Eishin; Harada, Toshiaki; Imai, Hiroshi; and Suzuki, Yoji, 4,668,782, Cl. 540-222.000.
  Kasai, Junichi; and Imai, Hiroshi, 4,641,344, Cl. 381-57.000.
  Kasai, Junichi; Imai, Hiroshi; and Tsuda, Hiroshi, 4,694,497, Cl. 381-63.000.
  Kasai, Junichi; Imai, Hiroshi; and Tsuda, Hiroshi, 4,703,502, Cl. 381-24.000.
Imai, Hirosuke: *See—*
  Itoh, Hiroyuki; Sakata, Ko; and Imai, Hirosuke, 4,636,229, Cl. 55-158.000.
  Takezono, Tetsuya; Amari, Takaaki; and Imai, Hirosuke, 4,645,576, Cl. 203-30.000.
Imai, Hisaya: *See—*
  Aoshima, Atsushi; Tonomura, Shoichiro; Fukui, Hiroyuki; and Imai, Hisaya, 4,658,065, Cl. 564-487.000.
Imai, Isamu; Oshima, Kazuo; Tanaka, Kenichi; and Inada, Norio, to Bridgestone Tire Company Limited. Pneumatic radial tire. 4,708,185, 11-24-87, Cl. 152-451.000.
Imai, Jun: *See—*
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  Hagiwara, Tatsuo; Imai, Keiji; and Nagaoka, Shigenori, 4,637,562, Cl. 241-259.200.
  Hagiwara, Tatsuo; Imai, Keiji; Nagaoka, Shigenori; Kogumazaka, Shinji; Yahagi, Kyoichi; Imagawa, Takeshi; Ishii, Hidenaga; and Kikuchi, Toshitsugu, 4,645,133, Cl. 241-182.000.
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Imai, Kenji: *See—*
  Saito, Akinori; Yamada, Masatoshi; Imai, Kenji; Kawamura, Kiyomi; and Kimura, Masanobu, 4,685,432, Cl. 123-276.000.
Imai, Kiyokazu; Shiomi, Tomoo; and Tezuka, Yasuyuki, to Shin-Ets Chemical Co., Ltd. Novel cellulose derivative, process for preparing the same and sulfur dioxide gas permselective membrane comprising the same. 4,694,077, 9-15-87, Cl. 536-92.000.
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  Itoh, Kunio; Imai, Kiyoshi; Yoshida, Takeo; and Fukushima, Motoo, 4,678,827, Cl. 524-188.000.
  Konno, Masanori; Imai, Kiyoshi; and Dobashi, Toshihiro, 4,673,791, Cl. 219-69.00M.
  Konno, Masanori; Imai, Kiyoshi; and Dobashi, Toshihiro, 4,700,039, Cl. 219-69.00G.
  Nakamura, Tsutomu; and Imai, Kiyoshi, 4,678,828, Cl. 524-265.00
  Suzuki, Niichiro; Ogushi, Yoshimi; Imai, Kiyoshi; Ohta, Nobuhiro; and Ueno, Susumu, 4,639,285, Cl. 156-272.600.
Imai, Kiyotaka: *See—*
  Makabe, Eiichi; Harada, Naoki; Imai, Kiyotaka; Hosoda, Yoshi and Kato, Akira, 4,643,587, Cl. 374-104.000.
Imai, Kunihiko: *See—*
  Obinata, Hiroaki; Imai, Kunihiko; and Sunohara, Masayuki, 4,675,243, Cl. 428-210.000.
Imai, Kuninori: *See—*
  Nakanishi, Keiichirou; Yamada, Minoru; Masaki, Akira; Ima Kuninori; and Chiba, Katuaki, 4,644,385, Cl. 357-82.000.
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  Hiroyuki, Furuhashi; Yamamoto, Tadashi; Imai, Masafumi; and Ueno, Hiroshi, 4,693,990, Cl. 502-116.000.
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Imai, Masaharu, to Olympus Optical Co., Ltd. Solid state image sensor 4,636,865, 1-13-87, Cl. 358-213.000.
Imai, Masahiro: *See—*
  Aoshima, Terutaka; Asahi, Morio; Imai, Masahiro; and Narita, Ryuuho, 4,687,910, Cl. 219-506.000.
  Asahi, Morio; Aoshima, Terutaka; Narita, Ryuuho; and Ima Masahiro, 4,644,137, Cl. 219-497.000.
  Kojima, Mitsuhiro; Asahi, Morio; Narita, Ryuuho; and Ima Masahiro, 4,674,890, Cl. 368-107.000.
  Narita, Ryuuho; and Imai, Masahiro, 4,644,571, Cl. 377-56.000.
  Narita, Ryuuho; and Imai, Masahiro, 4,671,668, Cl. 368-10.000.
  Yamashita, Kiyoshi; Aoshima, Terutaka; Narita, Ryuuho; and Ima Masahiro, 4,695,710, Cl. 219-506.000.
Imai, Masao: *See—*
  Ozawa, Hiroshi; Hosono, Yoichi; Hirose, Sumio; Sasagawa, Katsuyoshi; and Imai, Masao, 4,707,430, Cl. 430-270.000.
  Sasagawa, Katsuyoshi; Nishihara, Kunio; Ozawa, Hiroshi; and Imai, Masao, 4,707,425, Cl. 430-21.000.
Imai, Michio, to Mitsubishi Denki Kabushiki Kaisha. Thyristor device 4,675,719, 6-23-87, Cl. 357-75.000.
Imai, Miho: *See—*
  Yamamoto, Hiromi; Imai, Miho; and Suzuki, Noboru, 4,694,525, C 15-160.000.
Imai, Motomasa; Harata, Mitsuo; Takahashi, Takashi; and Nishijima, Kazuo, to Kabushiki Kaisha Toshiba. Magnetic recording head and method for manufacturing. 4,701,767, 10-20-87, Cl. 346-74.200.
Imai, Nobuhiro: *See—*
  Ito, Michio; Shinohara, Yukimasa; and Imai, Nobuhiro, 4,687,283, Cl. 350-6.800.
Imai, Nobuo, to Sanyo Electric Co., Ltd. Disc player. 4,701,901, 10-20-87, Cl. 369-75.200.
Imai, Nobuyuki: *See—*
  Hochstein, Peter; and Imai, Nobuyuki, 4,712,433, Cl. 73-862.360.
  Hochstein, Peter A., and Imai, Nobuyuki, 4,712,432, Cl. 73-862.360.
Imai, Osamu: *See—*
  Haga, Takahiro; Toki, Tadaaki; Koyanagi, Toru; Okada, Hiroshi; Yoshida, Kiyomitsu; and Imai, Osamu, 4,645,761, Cl. 514-94.000.
Imai, Ryuji: *See—*
  Sawada, Daisaku; Sugaya, Masami; Imai, Ryuji; and Soga, Yoshinobu, 4,642,069, Cl. 474-28.000.
  Sawada, Daisaku; Sugaya, Masami; Soga, Yoshinobu; and Imai, Ryuji, 4,685,357, Cl. 74-867.000.
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Imai, Satoru; and Sukeda, Toshiaki, to Fujitsu Limited. Magnetic bubble cassette. 4,635,225, 1-6-87, Cl. 365-1.000.
Imai, Shigeo: *See—*
  Suzuki, Migaku; Kobayashi, Toshio; and Imai, Shigeo, 4,665,59 Cl. 28-104.000.
Imai, Shigeru: *See—*
  Akiyama, Hideki; and Imai, Shigeru, 4,638,542, Cl. 29-408.000.
Imai, Shuichi: *See—*
  Isobe, Minoru; Imai, Shuichi; Hiroki, Toru; Kodama, Tadashi; and Ohara, Waturu, 4,688,955, Cl. 400-248.000.

Takeshi: *See—*
Sugihara, Junpei; Imai, Takeshi; Toida, Shuzo; and Takahashi,
Ikuzo, 4,697,027, Cl. 556-466.000.
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ylation catalyst and process for the use thereof. 4,636,488, 1-13-87,
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Tamotsu; and Bricker, Jeffery C., to UOP Inc. Process for the
hydrogenation of dehydrogenatable hydrocarbons. 4,652,687,
24-87, Cl. 585-319.000.
Tamotsu; and Barger, Paul T., to UOP Inc. Process for the synthe-
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ylation catalyst and process for the use thereof. 4,665,271, 5-12-87,
585-724.000.
Tamotsu; and Abrevaya, Hayim, to UOP Inc. Dehydrogenation
alyst compositions. 4,677,237, 6-30-87, Cl. 585-444.000.
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716,143, 12-29-87, Cl. 502-326.000.
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Abrevaya, Hayim; and Imai, Tamotsu, 4,672,146, Cl. 585-660.000.
Kocal, Joseph A.; and Imai, Tamotsu, 4,634,801, Cl. 585-724.000.
Kocal, Joseph A.; and Imai, Tamotsu, 4,677,245, Cl. 585-724.000.
Tatsuhiko; and Kawasawa, Masuo, to Daicel Chemical Industries,
d. Flame retardant resin composition. 4,707,510, 11-17-87, Cl.
4-281.000.
Tesuo: *See—*
Boyer, Kirk A.; and Imai, Tesuo, 4,633,964, Cl. 180-190.000.
Tetsuya; Fujita, Hiroshi; Koikeda, Minoru; and Suzuki, Takashi,
Research Association for Petroleum Alternatives Development.
ystalline silicates, and processes for the production or use thereof.
98,449, 10-6-87, Cl. 585-469.000.
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-101.00R.
Tomoyasu: *See—*
Tsuneki, Takao; Ano, Shinji; Uchida, Takahiko; Imai, Tomoyasu;
Okamoto, Masaru; Ohtaka, Hideo; and Murakami, Hiromi,
4,666,609, Cl. 210-701.000.
Toshiaki: *See—*
Shinohara, Hiroo; and Imai, Toshiaki, 4,678,755, Cl. 436-43.000.
Toshihiro, to Olympus Optical Co., Ltd. Flare stop for a large
erture ratio zoom lens system. 4,662,723, 5-5-87, Cl. 350-426.000.
Toshihiro: *See—*
Mihara, Shin-ichi; Imai, Toshihiro; Ikari, Kazuo; and Fujii, Toru,
4,635,125, Cl. 358-228.000.
Yoshikazu: *See—*
Ishikawa, Toshikatsu; Teranishi, Haruo; Imai, Yoshikazu; and
Nagata, Yoichi, 4,649,060, Cl. 427-57.000.
Yoshikiyo; and Yasuoka, Yuji, to Omron Tateisi Electronics Co.
larized relay. 4,673,908, 6-16-87, Cl. 335-79.000.
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Yuji, to TDK Corporation. Metal layer patterning method.
42,168, 2-10-87, Cl. 204-129.650.
Yuji: *See—*
Matsuura, Toshio; Murakami, Seiro; Imai, Yuji; Ohta, Kazuya; and
Tanimoto, Akikazu, 4,702,606, Cl. 356-401.000.
Murakami, Seiro; Matsuura, Toshio; Imai, Yuji; and Ohta, Kazuya,
4,655,598, Cl. 356-400.000.
de, Takuya, to Hitachi, Ltd. Enhanced sensitivity color video
mera with reduced red component in second luminance signal.
688,085, 8-18-87, Cl. 358-44.000.
de, Takuya: *See—*
Nishimura, Ryuji; Kato, Minoru; Noda, Masaru; and Imaide, Ta-
kuya, 4,714,955, Cl. 358-48.000.
ida, Tetsuo: *See—*
Doe, Akihiko; Imaiida, Tetsuo; Uchida, Teruyoshi; and Kojima,
Hirotaka, 4,690,147, Cl. 128-635.000.
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d. Method and apparatus for producing microfine frozen particles.
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tecting device. 4,640,123, 2-3-87, Cl. 73-61.10R.
zumi, Haruo, to Junkosha Co., Ltd. Sensor for detecting the pres-
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zumi, Haruo: *See—*
Suzuki, Hirosuke; and Imaizumi, Haruo, 4,701,362, Cl. 428-131.000.
Tanaka, Satoshi; and Imaizumi, Haruo, 4,710,353, Cl. 422-68.000.
zumi, Hiroyuki; Inaba, Takihiro; Morita, Seishi; Takeno, Ryuko;
urotani, Yoshiharu; Fukuda, Hirohiko; Yoshida, Junichi; Tanaka,
iyoshi; Takano, Shuntaro; and Saikawa, Isamu, to Toyoma Chemi-
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Sadaki, Hiroshi; Imaizumi, Hiroyuki; Takeda, Kenji; Inaba, Takihiro; Takeno, Ryuko; Morita, Seishi; Kajita, Tetsuya; and Saikawa, Isamu, 4,667,040, Cl. 548-195.000.
Sadaki, Hiroshi; Narita, Hirokazu; Imaizumi, Hiroyuki; Konishi, Yoshinori; Inaba, Takihiro; Hirakawa, Tatsuo; Taki, Hideo; Tai, Masaru; Watanabe, Yasuo; and Saikawa, Isamu, 4,673,738, Cl. 540-222.000.
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Numata, Shun-ichi; Fujisaki, Koji; Kinjo, Noriyuki; Imaizumi, Junichi; and Mikami, Yoshikatsu, 4,690,999, Cl. 528-188.000.

Imaizumi, Ken: *See—*
Naito, Tadashi; Okuda, Kenzo; Ohmori, Masakazu; Saijyo, Toru; and Imaizumi, Ken, 4,700,309, Cl. 364-468.000.
Imaizumi, Mamoru; Ishikawa, Yujiro; Ohta, Eiichi; Sato, Shizuo; and Matsushita, Kazuyuki, to Brother Industries, Ltd. Image sensing head of image reading device having light shield and base plate disposed at end face thereof. 4,647,765, 3-3-87, Cl. 250-227.000.
Imaizumi, Mamoru: *See—*
Kuzuya, Susumu; and Imaizumi, Mamoru, 4,715,735, Cl. 400-82.000.
Imaizumi, Masahiro; Masumura, Masanori; Ishikawa, Takeshi; and Hosoya, Eiji, to Honda Giken Kogyo Kabushiki Kaisha. Gearbox assembly for vehicles. 4,635,506, 1-13-87, Cl. 74-745.000.
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Imaizumi, Masaki; Takase, Hiroshi; and Fujii, Toru, to Olympus Optical Co., Ltd. Compaet vari-focal photographic lens system. 4,653,870, 3-31-87, Cl. 350-422.000.
Imaizumi, Masaki, to Olympus Optical Co., Ltd. Zoom lens system. 4,693,566, 9-15-87, Cl. 350-427.000.
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Takase, Hiroshi; Imaizumi, Masaki; and Fujii, Toru, 4,668,054, Cl. 350-422.000.
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Imaizumi, Masaru; Ito, Masazumi; and Shibazaki, Kenji, to Minolta Camera Kabushiki Kaisha. Toner image fixing control process and apparatus in electrostatic copying machine. 4,634,262, 1-6-87, Cl. 355-14.00R.
Imaizumi, Mitsuyuki: *See—*
Wake, Masayoshi; Taguchi, Osamu; and Imaizumi, Mitsuyuki, 4,673,774, Cl. 174-94.00R.
Imaizumi, Norio, to Sanyo Electric Co., Ltd. Vertical deflection circuit. 4,692,670, 9-8-87, Cl. 315-388.000.
Imaizumi, Tomio, to Tokico Ltd. Hydraulic damper of adjustable damping force type. 4,645,043, 2-24-87, Cl. 188-319.000.
Imaizumi, Tomio: *See—*
Kato, Tetsuo; and Imaizumi, Tomio, 4,645,044, Cl. 188-319.000.
Imaje S.A.: *See—*
Reynaud, Jean-Louis, 4,714,932, Cl. 346-75.000.
Imajo, Minoru; and Kawakita, Tsunehiro, to Nissan Motor Company, Limited. Oil degradation warning system. 4,706,193, 11-10-87, Cl. 364-424.000.
Imajo, Minoru: *See—*
Kawakita, Tsunehiro; and Imajo, Minoru, 4,694,793, Cl. 123-196.00S.
Imakawa, Kazuhiko: *See—*
Crabtree, Paul J.; and Imakawa, Kazuhiko, 4,637,890, Cl. 252-90.000.
Crabtree, Paul J.; and Imakawa, Kazuhiko, 4,686,060, Cl. 252-90.000.
Imakawa, Makoto: *See—*
Hamashima, Kazuo; Imakawa, Makoto; and Kutsukake, Yukinori, 4,671,822, Cl. 75-244.000.
Imaki, Katsuhiro; Okegawa, Tadao; and Arai, Yoshinobu, to Ono Pharmaceutical Co., Ltd. 3-(indian-5-yloxy (or thio)) cyclopentanecarboxylic acid analogues. 4,640,931, 2-3-87, Cl. 514-510.000.
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Imakoshi, Shigeyoshi; Soda, Yutaka; Suyama, Hideo; and Iida, Yasuhiro, to Sony Corporation. Magnetic transducer head utilizing magnetoresistance effect. 4,679,107, 7-7-87, Cl. 360-113.000.
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Souda, Yutaka; Imakoshi, Shigeyoshi; Suyama, Hideo; Uchida, Hiroyuki; Iida, Yasuhiro; and Sekiya, Tetsuo, 4,673,998, Cl. 360-113.000.
Suyama, Hideo; Imakoshi, Shigeyoshi; Soda, Yutaka; Fuse, Takeyuki; Abe, Iwao; and Wakabayashi, Noboru, 4,673,999, Cl. 360-125.000.
Yada, Hiroaki; Imakoshi, Shigeyoshi; Suyama, Hideo; Sekiya, Tetsuo; and Nakavama, Masayuki, 4,701,815, Cl. 360-77.000.
Imam, Imdad: *See—*
Bagepalli, Bharat S.; Imam, Imdad; and Howell, Edward K., 4,656,445, Cl. 335-195.000.
Imamura, Akira: *See—*
Goto, Hideo; and Imamura, Akira, 4,686,588, Cl. 360-76.000.
Imamura, Eiji; Kumokawa, Takashi; Nakayama, Fumio; Mandai, Haruhumi; Fukutani, Iwao; and Tomono, Kunisaburo, to Murata Manufacturing Co., Ltd. Monolithic LC feed-through filter having a

ferrite body with a re-oxidized capacitive layer. 4,698,605, 10-6-87, Cl. 333-184.000.

Imamura, Hideko: *See*—

Soda, Yutaka; Imamura, Hideko; Uchida, Hiroyuki; and Sekiya, Tetsuo, 4,713,710, Cl. 360-121.000.

Imamura, Hideo: *See*—

Hagita, Hyoji; Fukuda, Takashi; Maeda, Shigeru; Imamura, Hideo; Ogata, Kazutosi; and Fukuoka, Masahiro, 4,688,411, Cl. 72-42.000.

Imamura, Hiroshi; Nakai, Katsumasa; Higashigawa, Masahiro; and Toho, Makoto, to Matsushita Electric Works, Ltd. Colored fluorescent lamp assembly. 4,665,341, 5-12-87, Cl. 313-493.000.

Imamura, Jiro, to Hitachi, Ltd. Apparatus for controlling I/O interrupt in multiprocessor system. 4,644,465, 2-17-87, Cl. 364-200.000.

Imamura, Kaoru; and Muramoto, Kenichi, to Kabushiki Kaisha Toshiba. Breakdown protected planar transistor device. 4,716,489, 12-29-87, Cl. 361-91.000.

Imamura, Kazunori; and Mori, Yoshio, to Nippon Kogaku K. K. Projection optical apparatus and a photographic mask therefor. 4,666,292, 5-19-87, Cl. 355-67.000.

Imamura, Kazunori: *See*—

Abe, Nobutoshi; and Imamura, Kazunori, 4,715,392, Cl. 134-62.000.

Tanimoto, Akikazu; and Imamura, Kazunori, 4,690,528, Cl. 353-101.000.

Imamura, Kenji, to Ushio Denki Kabushiki Kaisha. Exposure intensity detecting system for copying machine. 4,653,904, 3-31-87, Cl. 355-68.000.

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Imamura, Makoto: *See*—

Suzuki, Hiroshi; and Imamura, Makoto, 4,635,143, Cl. 360-65.000.

Imamura, Masanaga; and Mizuno, Isao, to Ricoh Co., Ltd. Image formation method subliming ink through a gas permeable membrane. 4,680,592, 7-14-87, Cl. 346-1.100.

Imamura, Mineo: *See*—

Nagai, Takaatsu; Takada, Masayuki; Sato, Akira; and Imamura, Mineo, 4,641,319, Cl. 373-84.000.

Imamura, Minoru: *See*—

Kawase, Akira; and Imamura, Minoru, 4,704,897, Cl. 73-40.50R.

Matsuda, Toshiharu; Saho, Norihide; Imamura, Minoru; and Hosomi, Nobuyuki, 4,667,477, Cl. 62-55.500.

Imamura, Nobutake: *See*—

Tanaka, Fujio; and Imamura, Nobutake, 4,701,881, Cl. 365-122.000.

Imamura, Saburo: *See*—

Tanaka, Akinobu; Morita, Masao; Imamura, Saburo; Tamamura, Toshiaki; and Kogure, Osamu, 4,702,990, Cl. 430-197.000.

Imamura, Shinichi: *See*—

Ijichi, Masakatsu; Uehara, Yutaka; Sakaguchi, Masahiro; and Imamura, Shinichi, 4,706,607, Cl. 119-16.000.

Imamura, Shinzi: *See*—

Fuzita, Kazuhiro; Nishizawa, Kazunori; and Imamura, Shinzi, 4,642,838, Cl. 15-250.210.

Imamura, Takashi; Kayane, Shigeto; and Kurosaki, Tomihiro, to Kao Corporation. Sugar phosphates. 4,650,862, 3-17-87, Cl. 536-17.100.

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Imamura, Tatsuo; Yamamoto, Hiroyuki; and Yunoki, Yutaka, to Olympus Optical Co., Ltd. Perpendicular magnetic head. 4,703,380, 10-27-87, Cl. 360-121.000.

Imamura, Tatsuo: *See*—

Yunoki, Yutaka; Kimura, Kenji; Kato, Akira; and Imamura, Tatsuo, 4,642,711, Cl. 360-84.000.

Imamura, Tetsuo; and Yukawa, Yasuaki, to Nippondenso Co., Ltd. Starter with planetary gear type speed reducing mechanism. 4,635,489, 1-13-87, Cl. 74-7.00E.

Imamura, Tetsuya: *See*—

Kanai, Hiroyuki; Imamura, Tetsuya; Takeuchi, Takeshi; and Suzue, Shigetoshi, 4,675,250, Cl. 428-403.000.

Kishine, Nobuyuki; Imamura, Tetsuya; Yamauchi, Michihide; and Ootani, Tsuyoshi, 4,642,720, Cl. 360-126.000.

Kishine, Nobuyuki; Imamura, Tetsuya; Minami, Hideyuki; and Yamauchi, Michihide, 4,644,431, Cl. 360-122.000.

Kishine, Nobuyuki; Imamura, Tetsuya; Yamauchi, Michihide; and Takeuchi, Takashi, 4,661,402, Cl. 428-323.000.

Kishine, Nobuyuki; Imamura, Tetsuya; and Yamauchi, Michihide, 4,716,078, Cl. 428-336.000.

Imamura, Tomotsu, to Ricoh Company, Ltd. Device for stabilizing photosensor output to varying temperature. 4,710,622, 12-1-87, Cl. 250-214.00R.

Imamura, Toru, to NEC Corporation. Method of making a capacitor with reduced dielectric breakdown. 4,713,357, 12-15-87, Cl. 437-52.000.

Imamura, Tosuke, to Teijin Limited. Woven polyester webbing for safety belts. 4,710,423, 12-1-87, Cl. 428-272.000.

Imamura, Yoshinori: *See*—

Kusano, Chushirou; Ishioka, Sachio; Imamura, Yoshinori; Takasaki, Yukio; Ogawa, Hirofumi; Makishima, Tatsuo; and Hirai, Tadaaki, 4,636,682, Cl. 313-386.000.

Takagi, Takeo; Sakaguchi, Yuji; and Imamura, Yoshinori, 4,664,232, Cl. 188-74.000.

Imanaka, Asaji, to Nippon Air Brake Co., Ltd. Railway vehicle brake system with improved blending control of pneumatic and electric brakes. 4,639,047, 1-27-87, Cl. 303-15.000.

Imanaka, Asaji, to Nippon Air Brake Co., Ltd. Brake control system for supplementing electric brake with friction brake. 4,651,071, 3-17-87, Cl. 318-371.000.

Imanaka, Asaji, to Nippon Air Brake Co., Ltd. Railway vehicle brake system with improved blending control of pneumatic and electric brakes. 4,685,750, 8-11-87, Cl. 303-15.000.

Imanaka, Hiroshi: *See*—

Kitaura, Yoshihiko; Nakaguchi, Osamu; Hemmi, Keiji; Aratani, Matsuhiko; Takeno, Hidekazu; Okada, Satoshi; Tanaka, Hirokazu; Hashimoto, Masashi; Kuroda, Yoshio; Iguchi, Eiko; Kohsaka, Masanobu; Aoki, Hatsuo; and Imanaka, Hiroshi, 4,666,890, Cl. 514-18.000.

Kiyoto, Sumio; Okuhara, Masakuni; Kino, Eiko; Tanaka, Hirokazu; Aoki, Hatsuo; Kohsaka, Masanobu; and Imanaka, Hiroshi, 4,680,178, Cl. 424-122.000.

Umehara, Kazuyoshi; Yoshida, Keizo; Tanaka, Hirokazu; Uchida, Itsuo; Kohsaka, Masanobu; and Imanaka, Hiroshi, 4,643,990, Cl. 514-18.000.

Imanaka, Tadayuki: *See*—

Aiba, Shuichi; and Imanaka, Tadayuki, 4,695,546, Cl. 435-172.300.

Imanaka, Yoshiaki, to Sharp Kabushiki Kaisha. Cleaning device for a monochromatic copying machine. 4,696,565, 9-29-87, Cl. 355-15.000.

Imanaka, Yoshihiko; Ogawa, Hiromi; Tsukada, Mineharu; Udagawa, Etsuro; Kurihara, Kazuaki; Yokoyama, Hiromitsu; and Kamehara, Nobuo, to Fujitsu Limited. Process for producing multilayer ceramic circuit board with copper. 4,679,320, 7-14-87, Cl. 29-848.000.

Imanaka, Yoshihiko: *See*—

Kurihara, Kazuaki; Kamehara, Nobuo; Yokoyama, Hiromitsu; Ogawa, Hiromi; Yokouchi, Kishio; Imanaka, Yoshihiko; and Niwa, Koichi, 4,642,148, Cl. 156-89.000.

Imanari, Junichi: *See*—

Sakabe, Yukio; Nishioka, Goro; and Imanari, Junichi, 4,661,462, Cl. 501-134.000.

Imanari, Makoto; Iwane, Hiroshi; Kuzira, Katsufumi; and Seto, Takatoshi, to Research Association for Utilization of Light Oil. Process for the preparation of indoles. 4,659,841, 4-21-87, Cl. 548-508.000.

Imani, Kambiz: *See*—

Mansouris, Mansour N.; Mansouri, Masoud N.; and Imani, Kambiz, 4,648,141, Cl. 5-8.000.

Imani, Yuichi: *See*—

Hattori, Yoshiyuki; Matsui, Kazuma; Imani, Yuichi; Kuno, Akira; Nagata, Tetsuya; Nakane, Koji; and Nomura, Ken, 4,715,663, Cl. 303-110.000.

Matsui, Kazuma; Hattori, Yoshiyuki; Imani, Yuichi; Kuno, Akira; and Nomura, Yoshihisa, 4,687,260, Cl. 303-119.000.

Imanishi, Kazuo, to Mitsubishi Denki Kabushiki Kaisha. Numerical control device for scheduling machining of groups of workpieces. 4,661,912, 4-28-87, Cl. 364-474.000.

Imanishi, Kiyokazu; Naka, Hiroyuki; Sakurai, Yasuo; Ichiyanagi, Takashi; and Kishimoto, Masaru, to Matsushita Electric Industrial Co., Ltd. Rotary head assembly with pump-out type spiral grooves for more stable tape running. 4,641,214, 2-3-87, Cl. 360-130.240.

Imanishi, Masamichi: *See*—

Fujii, Mituru; Dobashi, Tomoyuki; Sasaki, Hisashi; Imanishi, Masamichi; and Ueda, Toshihiro, 4,674,654, Cl. 222-39.000.

Ueda, Toshihiro; Imanishi, Masamichi; Iyama, Kazuo; Fukuhara, Akio; and Iwase, Ken, 4,634,003, Cl. 206-221.000.

Imanishi, Nobuyuki: *See*—

Saeki, Osamu; Mori, Kenji; Onoda, Mamoru; Watanabe, Ryo; Shinohara, Katsufumi; Ashie, Takehiko; and Imanishi, Nobuyuki, 4,678,508, Cl. 75-26.000.

Imanishi, Shozo; and Sato, Mitsuo, to Aida Engineering, Ltd. Slide adjusting device for a press. 4,677,908, 7-7-87, Cl. 100-53.000.

Imanishi, Shozo; and Sato, Mitsuo, to Aida Engineering, Ltd. Balancing device for press. 4,711,169, 12-8-87, Cl. 100-257.000.

Imanishi, Syozo; Yamakawa, Hiroyoshi; and Ono, Yutaka, to Aida Engineering, Ltd. Feed bar driving system in transfer press machine. 4,651,866, 3-24-87, Cl. 198-500.000.

Imano, Snigeki: *See*—

Johnston, William D.; Hori, Yasuhiko; Nagata, Masanori; and Imano, Shigeki, 4,654,240, Cl. 428-35.000.

Johnston, William D.; Czuba, Leonard; Webster, R. D.; Hori, Yasuhiko; Nagata, Masanori; and Imano, Shigeki, 4,686,125, Cl. 428-35.000.

Johnston, William D.; Czuba, Leonard; Webster, R. D.; Hori, Yasuhiko; Nagata, Masanori; and Imano, Shigeki, 4,692,361, Cl. 428-35.000.

Imao, Kayoko: *See*—

Honda, Tadashi; Imao, Kayoko; Nakatsuka, Nobuo; and Nakanishi, Toshihiro, 4,665,201, Cl. 549-275.000.

Tatsuoka, Toshio; Suzuki, Kenji; Imao, Kayoko; Satoh, Fumio; Miyano, Seiji; and Sumoto, Kunihiro, 4,713,453, Cl. 544-60.000.

Imao, Shoji; Nakamoto, Hideo; Osaka, Norihisa; Takesue, Masatoshi; Kodama, Hitoshi; Suzuki, Kinuko; and Inomoto, Masataka, deceased (by Inomoto, Kazuko, legal representative), to Mitsubishi Rayon Co., Ltd. Composite molded articles having specified undercoat composition. 4,704,328, 11-3-87, Cl. 428-324.000.

Imaoka, Hirofumi: *See*—

Segawa, Keiji; Imaoka, Hirofumi; Kinjo, Hisao; and Sakurai, Toshiya, 4,675,765, Cl. 360-122.000.

Imaoka, Kanya: *See*—

Hakoyama, Soichi; Mori, Shigetatu; Takebe, Yoshiyuki; and Imaoka, Kanya, 4,638,624, Cl. 57-208.000.

eki, Takashi: *See—*

Ozaki, Kiyotaka; Torii, Shuuji; Jindo, Tomio; and Imaseki, Takashi, 4,679,463, Cl. 74-711.000.

aki, Hiroyuki: *See—*

Baba, Takeshi; Imataki, Hiroyuki; Usui, Masayuki; Serizawa, Takashi; and Nose, Hiroyasu, 4,712,882, Cl. 350-413.000.

Nakatsui, Hisashi; Imataki, Hiroyuki; and Hajimoto, Yoshioki, 4,682,019, Cl. 250-211.00R.

Usui, Masayuki; Imataki, Hiroyuki; Serizawa, Takashi; Baba, Takeshi; and Nose, Hiroyasu, 4,714,326, Cl. 350-485.000.

ani, Tsuneo: *See—*

Matsuno, Kenji; Yasumuro, Hisakazu; Taira, Kazuo; Imatani, Tsuneo; and Toyoshima, Makoto, 4,685,989, Cl. 156-244.130.

o, Shinji: *See—*

Yamazaki, Shunpei; Konuma, Toshimitsu; Hamatani, Toshiji; Mase, Akira; Koyanagi, Kaoru; Imato, Shinji; Yamaguchi, Toshiharu; Sakama, Mitsunori; and Inujima, Takashi, 4,691,995, Cl. 350-331.00R.

ron, Inc.: *See—*

Rand, Roy E.; and Wang, Dan Y., 4,644,168, Cl. 250-398.000.

Rutt, Brian K., 4,672,649, Cl. 378-10.000.

oshi, Kiyoyuki: *See—*

Hayashi, Motomu; Nagai, Masayuki; and Imayoshi, Kiyoyuki, 4,674,247, Cl. 52-208.000.

ato, Minoru: *See—*

Sudo, Michio; Hotta, Toshihiro; and Imazato, Minoru, 4,665,331, Cl. 310-68.00R.

eki, Chiharu: *See—*

Shibuya, Kouji; and Imazeki, Chiharu, 4,642,656, Cl. 346-76.0PH.

eki, Kazuyoshi, to General Research of Electronics, Inc. Radio ection finding system. 4,636,796, 1-13-87, Cl. 342-443.000.

eki, Kazuyoshi; and Koyama, Seizi, to General Research of Elec- nics, Inc. Radar detector. 4,668,952, 5-26-87, Cl. 342-20.000.

eki, Kazuyoshi; and Yokoyama, Nobuaki, to General Research of ectronics, Inc. Radio receiver. 4,679,245, 7-7-87, Cl. 455-155.000.

u, Katsuhiro: *See—*

Machii, Akihiko; Ikegami, Hiroo; Ishinabe, Masao; Imazu, Katsuhiro; and Ueno, Hiroshi, 4,692,810, Cl. 358-256.000.

u, Keinosuke: *See—*

Kamiya, Fumio; Nodera, Hisatoshi; Ueda, Kenji; Imazu, Keinosuke; and Tomioka, Hidehiro, 4,644,298, Cl. 331-65.000.

u, Shigeki, to Mazda Motor Corporation. Control device for ernal combustion engine. 4,714,064, 12-22-87, Cl. 123-339.000.

ch, Jean-Louis; Gosselin, Gilles; and De Rudder, Jean, to Syn- labo; and Imbach, Jean-Louis. Pharmaceutical compositions based xylosides and lyxosides of purine and pyrimidine bases used in a thod of treating viruses. 4,659,698, 4-21-87, Cl. 514-49.000.

ult, Jean-Francois R.; Mestre, Roland R.; Miraucourt, Carmen; i Ritt, Remy P. C., to Societe Nationale d'Etude et de Construc- n de Moteurs d'Aviation. Turbine rings of gas turbine plant. 76,715, 6-30-87, Cl. 415-116.000.

rge, Paul-Robert: *See—*

Ghyczy, Miklos; Imberge, Paul-Robert; and Wendel, Armin, 4,681,617, Cl. 71-86.000.

rt, Guy: *See—*

Kwiatkowski, Jean-Claude; and Imbert, Guy, 4,706,222, Cl. 365-230.000.

rt, Jean: *See—*

iuciu, Eric; Imbert, Jean; and Flandrois, Jacques, 4,689,791, Cl. 371-27.000.

rt, Jean-Paul, to La Bellignite. Tooling for manufacturing cages roller bearings. 4,702,455, 10-27-87, Cl. 249-79.000.

rt, Louis. Security enclosure having one or more compartments housing and protecting a windsurfer against theft. 4,690,467, -87, Cl. 312-198.000.

rt, Michel: *See—*

Douziech, Patrick; and Imbert, Michel, 4,644,388, Cl. 358-23.000.

rt, Thierry F.; Dorme, Nicole A. M.; and Langlois, Michel, to ialande S.A. 3-amino quinuclidine derivatives and the application reof as accelerators of gastro-intestinal motor function. 4,657,911, 4-87, Cl. 514-272.000.

Corporation: *See—*

Harris, Kim A., 4,706,748, Cl. 166-173.000.

C Corporation: *See—*

ulton, Donald E.; Curtiss, William P.; and Leehey, Jonathan R., 4,670,698, Cl. 318-802.000.

D Corporation: *See—*

isha, Jon, 4,689,043, Cl. 604-250.000.

loomquist, Ted C., 4,690,673, Cl. 604-67.000.

Meijer, Robert, 4,658,244, Cl. 340-632.000.

Michael T., to Intel Corporation. Seven transistor content ad- ssable memory (CAM) cell. 4,694,425, 9-15-87, Cl. 365-49.000.

Clifford W. Archery bow. 4,646,708, 3-3-87, Cl. 124-24.00R.

Clifford W., IV: *See—*

Thompson, Michael D.; and Imes, Clifford W., IV, 4,637,340, Cl. 118-657.000.

d, Marquard, to Hoffmann-La Roche Inc. Hydroquinone deriva- es useful in the production of vitamin E. 4,689,427, 8-25-87, Cl. -144.000.

f, Christian; and Kempf, Gerhard, to Sulzer Brothers Ltd.; and l Hamel Spinn-& Zwirnmaschine AG. Doubling machine. 93,069, 9-15-87, Cl. 57-59.000.

f, Christian: *See—*

Deeg, Helmut; and Imhof, Christian, 4,693,176, Cl. 98-40.120.

f, Rainer, to Mannesmann Rexroth GmbH. Pressure regulating ve. 4,643,225, 2-17-87, Cl. 137-596.170.

Imhof, Rene; and Kyburz, Emilio, to Hoffmann-La Roche Inc. Phenylquinolizidines. 4,684,731, 8-4-87, Cl. 546-138.000.

Imhof, Robert E.: *See—*

Birch, David J. S.; and Imhof, Robert E., 4,686,371, Cl. 250-461.100.

Imhoff, Claude: *See—*

d'Humieres, Etienne; Bernet, Jean M.; and Imhoff, Claude, 4,712,001, Cl. 250-213.0VT.

Imhoff, Daniel. Automatic transmission for a bicycle. 4,713,042, 12-15-87, Cl. 474-69.000.

Imhoff, Lee A., to American Institutional Maintenance Corporation. Cell lock. 4,648,253, 3-10-87, Cl. 70-135.000.

IMI Kynoch Limited: *See—*

Carter, George B.; and Manby, Alan P., 4,640,724, Cl. 149-109.600.

Carter, George B.; and Manby, Alan P., 4,676,164, Cl. 102-204.000.

IMI Refiners Ltd.: *See—*

Clark, Peter J.; Hudd, Anthony W.; Bloor, Stephen T.; and Rolier, Erling, 4,640,335, Cl. 164-440.000.

Imi-Tech Corporation: *See—*

Long, John V.; and Gagliani, John, 4,708,972, Cl. 521-185.000.

IMI Titanium Limited: *See—*

Kearns, Michael W., 4,659,546, Cl. 419-2.000.

Imiolek, Henry S.: *See—*

Brass, Robert L.; Glaberson, John; Mason, Richard W.; L'Heureux, Arthur J., III; Santulli, Scott; Roth, G. Thomas; Frega, John; and Imiolek, Henry S., 4,692,603, Cl. 235-454.000.

Immediate Business Systems Inc.: *See—*

Goodfellow, Anthony E. B., 4,674,056, Cl. 364-483.000.

Immunetech, Inc.: *See—*

Hahn, Gary S., 4,683,292, Cl. 530-328.000.

Hahn, Gary S., 4,686,282, Cl. 530-327.000.

Immunetech Pharmaceuticals: *See—*

Hahn, Gary S., 4,692,511, Cl. 530-325.000.

Immunex Corporation: *See—*

Hopp, Thomas P.; Bektesh, Susan L.; Conlon, Paul J., III; and March, Carl J., 4,703,004, Cl. 435-68.000.

Urdal, David L.; March, Carl J.; Mochizuki, Diane Y.; and Conlon, Paul J., III, 4,658,018, Cl. 530-351.000.

Immuno Aktiengesellschaft fur Chemisch-Medizinische Produkte: *See—*

Eibl, Johann; Schwarz, Otto; Elsinger, Fritz; Wober, Gunter; Philapitsch, Anton; Linnau, Yendra; Dorner, Friedrich; Trambauer, Karl; and Frechinger, Wolfgang, 4,640,834, Cl. 424-94.000.

Philapitsch, Anton; Wober, Gunter; Eibl, Johann; and Schwarz, Otto, 4,687,664, Cl. 424-85.000.

Immuno-Mycologics, Inc.: *See—*

Bauman, David S., 4,652,520, Cl. 435-34.000.

ImmunoMed Corporation: *See—*

McMichael, John C., 4,702,911, Cl. 424-92.000.

Immunomedics, Inc.: *See—*

Goldstein, Neil L., 4,699,780, Cl. 435-172.200.

Sundoro, Boby M., 4,680,338, Cl. 525-54.100.

Immunotech: *See—*

Bourgois, Alain; Delezay, Marylene; and Fert, Vincent, 4,670,543, Cl. 530-383.000.

IMO AB: *See—*

Segerstrom, Lars H., 4,637,787, Cl. 418-203.000.

Imo Delaval Inc.: *See—*

Maddox, James P., 4,687,495, Cl. 55-46.000.

Samek, Norbert E., 4,683,755, Cl. 73-727.000.

Wong, Tak-Yiu, 4,699,403, Cl. 285-233.000.

Imokawa, Genji: *See—*

Nakamura, Koichi; Hori, Kimihiko; Hattori, Michihiro; Tejima, Toru; Imokawa, Genji; and Takaishi, Naotake, 4,704,473, Cl. 562-463.000.

Nakamura, Koichi; Hattori, Michihiro; Tamura, Tadashi; Tejima, Toru; Takaishi, Naotake; Imokawa, Genji; and Hotta, Hajime, 4,710,373, Cl. 424-59.000.

Imokawa, Toshiaki: *See—*

Honda, Masaru; Chiba, Takanori; Imokawa, Toshiaki; Harada, Yoshito; and Nagayasu, Katsumi, 4,686,145, Cl. 428-425.900.

Imondi, Giuliano: *See—*

D'Arrigo, Sebastiano; Imondi, Giuliano; and Vergara, Sossio, 4,652,837, Cl. 331-111.000.

D'Arrigo, Sebastiano; Imondi, Giuliano; and Vergara, Sossio, 4,716,322, Cl. 307-592.000.

Vergara, Sossio; D'Arrigo, Sebastiano; and Imondi, Giuliano, 4,706,011, Cl. 323-274.000.

Imonti, Maurice M., to CooperVision, Inc. Intraocular surgical instrument. 4,674,502, 6-23-87, Cl. 128-305.000.

Imonti, Maurice M.: *See—*

Hood, Larry L.; and Imonti, Maurice M., 4,681,561, Cl. 604-22.000.

Imori, Hideo; and Adachi, Katsumi, to Mitsubishi Denki Kabushiki Kaisha. Terminal structure for an automotive AC generator. 4,683,390, 7-28-87, Cl. 310-71.000.

Imori, Hideo; and Takahara, Toshiyuki, to Mitsubishi Denki Kabushiki Kaisha. Rotor for rotary electrical machines. 4,686,399, 8-11-87, Cl. 310-62.000.

Imose, Masayuki, to Chugai Ro Co., Ltd. Continuous annealing furnace for metallic strip. 4,691,898, 9-8-87, Cl. 266-89.000.

Imoto, Kosuke; and Koyama, Kazutoshi, to Honda Giken Kogyo Kabushiki Kaisha. Ignition system for multi-cylinder 4 cycle engine. 4,702,222, 10-27-87, Cl. 123-643.000.

Imoto, Masaya: *See*—
  Umezawa, Hamao; Takeuchi, Tomio; Hamada, Masa; Naganawa, Hiroshi; Sawa, Tsutomu; Imoto, Masaya; Iinuma, Hironobu; Uchida, Takeshi; and Isshiki, Kunio, 4,686,308, Cl. 564-219.000.
Imoto, Sumio, to Pioneer Electronic Corporation. Method of correcting data carried on video format signal. 4,670,881, 6-2-87, Cl. 371-38.000.
Imoto, Sumio: *See*—
  Moriyama, Yoshiaki; and Imoto, Sumio, 4,654,853, Cl. 371-41.000.
Imoto, Takumi: *See*—
  Yoshida, Yuji; Suzuki, Shigeo; Nakatani, Kazuo; Mukai, Yuji; Nakazawa, Akira; and Imoto, Takumi, 4,679,403, Cl. 62-114.000.
Imoto, Yuzo; Takei, Toshihiro; Hattori, Yoshiyuki; Uno, Haruhiko; Inagaki, Mitsuo; and Takeda, Kenji, to Nippondenso Co., Ltd.; and Nippon Soken, Inc. Brake control apparatus for vehicle. 4,705,323, 11-10-87, Cl. 303-116.000.
Imoto, Yuzo; Wakata, Hideo; Takei, Toshihiro; and Hattori, Yoshiyuki, to Nippondenso Co., Ltd. Hydraulic control valve. 4,714,296, 12-22-87, Cl. 303-6.00C.
Impco Carburetion, Inc.: *See*—
  Bennett, David E., 4,694,811, Cl. 123-527.000.
  Bennett, David E., 4,703,742, Cl. 123-577.000.
Imperial Biotechnology Limited: *See*—
  Banks, Geoffrey T.; and Browning, Paul D., 4,692,408, Cl. 435-104.000.
Imperial Chemical Industries: *See*—
  Turner, Roger M.; Swerdlow, Martin S.; and Bate, Bernard, 4,662,887, Cl. 623-16.000.
Imperial Chemical Industries Limited: *See*—
  Leigh, Thomas, 4,683,089, Cl. 260-501.160.
  Whyman, Robin, 4,665,222, Cl. 560-263.000.
Imperial Chemical Industries PLC: *See*—
  Alford, Neil M.; Birchall, James D.; Howard, Anthony J.; Kendall, Kevin; and Raistrick, James H., 4,677,082, Cl. 501-88.000.
  Andrew, Sydney P.; Doy, Ralph J.; and Limbach, Antony P. J., 4,690,690, Cl. 48-214.00A.
  Andrew, Sydney P. S.; and Jennings, James R., 4,698,321, Cl. 502-330.000.
  Araya, Abraham; and Lowe, Barrie M., 4,705,674, Cl. 423-277.000.
  Atkinson, Peter; and Allan, Bernard D., 4,706,501, Cl. 73-730.000.
  Bagaglio, Giancarlo; Assche, Jan V.; and Watts, Arun, 4,678,513, Cl. 106-38.220.
  Baird, David B.; Baker, Ronald; Fishwick, Brian R.; and McClelland, Robert D., 4,658,040, Cl. 549-68.000.
  Barker, Sidney A.; and Somers, Peter J., 4,663,449, Cl. 536-125.000.
  Barker, Sidney A.; and Somers, Peter J., 4,713,118, Cl. 127-38.000.
  Baxter, Anthony G.; Bostock, Stephen B.; and Greenwood, David, 4,634,555, Cl. 540-126.000.
  Baxter, Anthony G. W.; Bostock, Stephen B.; and Greenwood, David, 4,703,113, Cl. 534-796.000.
  Baxter, Anthony G. W.; Bostock, Stephen B.; and Greenwood, David, 4,705,528, Cl. 8-641.000.
  Birse, Alan D.; and King, Alan G., 4,685,396, Cl. 102-206.000.
  Bornat, Alan, 4,689,186, Cl. 264-6.000.
  Bowden, Roy D., 4,638,091, Cl. 564-473.000.
  Bowler, Jean; and Tait, Brian S., 4,659,516, Cl. 260-397.500.
  Brewster, Andrew G., 4,668,698, Cl. 514-452.000.
  Briggs, Malcolm T.; Dowell, Robert I.; and Thornber, Craig W., 4,711,887, Cl. 514-247.000.
  Bromley, Charles W. A.; and Graystone, Jonathan A., 4,673,703, Cl. 524-504.000.
  Brown, David; Dowell, Robert I.; Hargreaves, Rodney B.; and Main, Brian G., 4,683,232, Cl. 514-228.000.
  Brown, David; Hargreaves, Rodney B.; McLoughlin, Bernard J.; and Mills, Stuart D., 4,694,005, Cl. 514-234.000.
  Brown, James P.; May, Ronald N.; and Randall, David, 4,703,069, Cl. 521-174.000.
  Bushell, Michael J.; and Worthington, Paul A., 4,689,337, Cl. 514-383.000.
  Bushell, Michael J., 4,714,790, Cl. 568-807.000.
  Butters, Alan; Barker, Roger N.; and Rennison, Stuart C., 4,711,834, Cl. 430-201.000.
  Cairns, John F.; and Cowell, Gawin W., 4,713,163, Cl. 204-296.000.
  Campbell, Frederick; Davies, Peter K.; and Schofield, John D., 4,645,611, Cl. 252-62.510.
  Candlin, John P.; Kelland, John W.; and Law, Peter L., 4,666,990, Cl. 525-268.000.
  Clough, John M.; Lewis, Timothy; and Gravestock, Michael B., 4,636,247, Cl. 71-92.000.
  Clough, John M.; and Griffin, David A., 4,684,396, Cl. 07-92.000.
  Coffee, Ronald A.; Noakes, Timothy J.; and Anstey, Robert A., 4,634,057, Cl. 239-690.000.
  Coffee, Ronald A., 4,659,012, Cl. 239-3.000.
  Cogswell, Frederic N.; and Measuria, Umakant, 4,713,283, Cl. 428-240.000.
  Cox, Michael K., 4,654,263, Cl. 428-366.000.
  Crocker, Christopher, 4,704,325, Cl. 428-323.000.
  Cross, William T.; and Ramshaw, Colin, 4,656,839, Cl. 62-476.000.
  Dalton, Raymond F.; Price, Raymond; Quan, Peter M.; and Stewart, David, 4,683,310, Cl. 546-321.000.
  Daniels, James A., 4,711,945, Cl. 528-86.000.
  Daoust, Daniel J. M.; Devaux, Jacques J.; Legras, Roger M.; Mercier, Jean P.; and Nield, Eric, 4,657,990, Cl. 525-471.000.
  Denyer, Robert; and Fortuin, Michael S., 4,689,015, Cl. 433-217.100.
  Devonald, David P.; Nelson, Anthony J.; Quan, Peter M.; and Stewart, David, 4,696,801, Cl. 423-24.000.
  Dewing, John; Hogan, Philip J.; and Stewart, Allan, 4,677,239, Cl. 585-475.000.
  Doroszkowski, Andrew; and Skinner, Maurice W., 4,690,837, Cl. 427-314.000.
  Doyle, Peter; and Whittle, Alan J., 4,670,464, Cl. 514-521.000.
  Dutta, Anand S.; Stein, Ross L.; Trainor, Diane A.; and Wildonger, Richard A., 4,691,007, Cl. 530-331.000.
  Eakin, Murdoch A.; Edwards, Philip N.; and Large, Michael S., 4,670,592, Cl. 564-234.000.
  Fawkes, David M., 4,655,756, Cl. 604-360.000.
  Forse, Sidney F.; and Rowe, Raymond C., 4,661,367, Cl. 427-3
  Frangou, Andrew, 4,675,358, Cl. 524-439.000.
  Gregory, Peter, 4,664,671, Cl. 8-471.000.
  Hargreaves, Rodney B.; McLoughlin, Bernard J.; and Mills, Stuart D., 4,716,164, Cl. 514-242.000.
  Hatfield, James H., 4,663,097, Cl. 264-40.700.
  Hendy, Brian N.; and Smith, John W., 4,714,725, Cl. 524-108.000.
  Ibbotson, Arthur, 4,700,010, Cl. 568-433.000.
  Jackson, Alistair J., 4,664,340, Cl. 244-76.00R.
  Jackson, Alistair J.; and Coffee, Ronald A., 4,703,891, Cl. 239-171.000.
  Jennings, James R., 4,654,320, Cl. 502-328.000.
  Jennings, James R., 4,668,657, Cl. 502-328.000.
  Jennings, James R., 4,668,658, Cl. 502-336.000.
  Jennings, James R., 4,689,317, Cl. 502-330.000.
  Jones, Michael E. B., 4,673,725, Cl. 528-266.000.
  Kay, Ian T.; and Noon, Robert A., 4,709,038, Cl. 546-316.000.
  Keary, Colin M.; and Shepherd, David, 4,657,676, Cl. 210-198.200.
  Kenyon, Ronald W.; and Thorp, Derek, 4,650,882, Cl. 549-259.000.
  Kenyon, Ronald W.; and Thorp, Derek, 4,680,417, Cl. 549-298.000.
  King, Alan G., 4,685,395, Cl. 102-202.200.
  Kirkland, Karin M.; and Mant, Derrick M., 4,683,228, Cl. 514-211.000.
  Loftus, Frank, 4,701,556, Cl. 564-106.000.
  Lord, Leslie W.; Kendall, Kevin; Williams, David T.; and Brown, John H., 4,707,351, Cl. 423-648.00R.
  Lowe, Barrie M.; and Fegan, Stuart G., 4,680,170, Cl. 423-329.000.
  Main, Brian G., 4,704,399, Cl. 514-452.000.
  McAloon, Kevin T.; and Brew, Allan T., 4,678,700, Cl. 423-198.000.
  McDonald, Edward; and Salmon, Roger, 4,661,488, Cl. 514-256.000.
  McDonnell, Damien G.; Gordon, Paul F.; Hughes, Anthony J.; and Thompson, David J., 4,668,811, Cl. 556-146.000.
  Mills, Stuart D., 4,645,771, Cl. 514-277.000.
  Moreland, Peter J., 4,713,160, Cl. 204-231.000.
  Nelson, Charles R.; and Thomas, Hugh, 4,701,268, Cl. 252-8
  Noon, Robert A.; Crowley, Patrick J.; and Worthington, Diana M., 4,634,466, Cl. 71-92.000.
  Norris, Alan J., 4,710,849, Cl. 361-228.000.
  O'Callaghan, Patrick; and Murton, Henry R., 4,702,743, Cl. 8-527.000.
  Owen, David; and McLaine, Colin G., 4,663,639, Cl. 346-140.000.
  Padget, John C.; and Forrester, James T., deceased, 4,686,278, Cl. 528-495.000.
  Parry, Keith P.; Rathmell, William G.; and Worthington, Paul A., 4,654,332, Cl. 514-184.000.
  Pinto, Alwyn, 4,671,893, Cl. 252-376.000.
  Pinto, Alwyn, 4,681,745, Cl. 423-359.000.
  Pinto, Alwyn, 4,689,208, Cl. 423-362.000.
  Pinto, Alwyn; and Johnson, John B. H., 4,695,442, Cl. 423-359.000.
  Pinto, Alwyn, 4,696,871, Cl. 429-17.000.
  Quan, Peter M.; and Nelson, Anthony J., 4,675,172, Cl. 423-658.500.
  Ramshaw, Colin, 4,687,585, Cl. 210-787.000.
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  Reinaud, Guy F., 4,703,820, Cl. 180-169.000.
  Reinaud, Guy F., 4,706,773, Cl. 180-169.000.
  Rochefort, Malcolm P.; and Wood, Richard, 4,680,155, Cl. 264-73.000.
  Ryan, Timothy G., 4,708,976, Cl. 523-300.000.
  Smith, Anthony P., 4,677,821, Cl. 60-39.020.
  Tavener, John W., 4,633,733, Cl. 74-533.000.
  Tucker, Howard, 4,636,505, Cl. 514-256.000.
  Turnbull, Michael D.; and Kay, Ian T., 4,696,926, Cl. 514-230.000.
  Ward, Mary V.; Nield, Eric; and Staniland, Philip A., 4,638,037, Cl. 525-471.000.
  Wardle, Ian; and Brattan, Keith, 4,648,953, Cl. 204-237.000.
  Watson, Keith G., 4,715,884, Cl. 71-90.000.
  Wem, James; and Brierley, Rowland J. P., 4,692,283, Cl. 261-89.000.
  Whittam, Thomas V., 4,645,655, Cl. 423-277.000.
  Whittle, Alan J., 4,705,900, Cl. 568-637.000.
  Williams, Ian G., 4,696,966, Cl. 524-412.000.
  Williams, John; and Robson, Michael J., 4,681,969, Cl. 558-407.000.
  Worthington, Paul A.; Crowley, Patrick J.; and Gravestock, Michael B., 4,655,820, Cl. 71-92.000.
  Worthington, Paul A.; and Shephard, Margaret C., 4,690,941, Cl. 514-383.000.
  Yellin, Tobias O.; Gilman, David J.; Edwards, Philip N.; Large, Michael S.; Jones, Derrick F.; and Oldham, Keith, 4,657,908, Cl. 514-245.000.
  Yellin, Tobias O.; and Gilman, David J., 4,665,073, Cl. 514-245.000.
  Yellin, Tobias O.; and Gilman, David J., 4,696,933, Cl. 514-275.000.

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rd, Brian C.; Hooper, John D.; and Bale, Christopher R.,
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arit, Luigi; and Santos, Llandro C., 4,714,670, Cl. 430-331.000.
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z, Yoram, 4,715,192, Cl. 62-323.100.
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ng, Kwangling; and Imperio, Louis, 4,665,321, Cl. 307-10.0LS.
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Thomas T. Double disc gate valve. 4,640,302, 2-3-87, Cl.
.000.
Albert J., Jr., to Westinghouse Electric Corp. Method and
atus for continuous on-line synthesis of power distribution in a
ar reactor core. 4,637,910, 1-20-87, Cl. 376-216.000.
Albert J., Jr., to Westinghouse Electric Corp. Anticipatory
ol of xenon in a pressurized water reactor. 4,642,213, 2-10-87, Cl.
18.000.
Albert J., Jr., to Westinghouse Electric Corp. Spectral shift
r control method. 4,687,620, 8-18-87, Cl. 376-209.000.
Albert J., Jr., to Westinghouse Electric Corp. Spectral shift
r control method. 4,716,006, 12-29-87, Cl. 376-209.000.
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leman, Neal B., 4,657,510, Cl. 433-173.000.
imited: *See*—
es, David R., 4,703,523, Cl. 5-83.000.
es, David R., 4,712,257, Cl. 5-83.000.
Mir, to Mirowski, Mieczyslaw. Clocking circuit with back-up
source. 4,667,328, 5-19-87, Cl. 371-61.000.
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implantable cardioverter/pacer. 4,705,043, 11-10-87, Cl. 128-
PG.
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nt, Joseph P., Jr.; and Hargreaves, Richard E., 4,681,870, Cl.
02-403.000.
ghal, Anil K., 4,711,839, Cl. 435-4.000.
e Virag, Ilona: *See*—
mon, Zoltan; Imre nee Virag, Ilona; and Sebestyen, Magdolna,
,659,834, Cl. 546-180.000.
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tlieb, A. Arthur, 4,699,898, Cl. 514-18.000.
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ke, Donald J.; Campanelli, Michael R.; and Ims, Dale R.,
,678,529, Cl. 156-234.000.
Donald J. Picture processing system for three dimensional
s and video systems. 4,647,965, 3-3-87, Cl. 358-88.000.
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a. Optical system of a radiation thermometer. 4,664,515,
7, Cl. 356-43.000.
Midori; Morijiri, Makoto; Hanazono, Masanobu; Kazui, Shini-
Miura, Youri; and Ogino, Hiroyuki, to Hitachi, Ltd. Electroless
g process and process for producing multilayer wiring board.
,587, 4-21-87, Cl. 427-35.000.
Ryo; Ikeda, Tadashi; and Sugita, Yutaka, to Hitachi, Ltd. Ion-
nted magnetic bubble device and a method of manufacturing the
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ki, Masatada; Kuroyama, Yutaka; Takeuchi, Yukihisa; Takagi,
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tomi, Hisao; and Kuraoka, Koji, to Mazda Motor Corporation.
le door structure having plastic door panel. 4,651,470, 3-24-87,
-502.000.
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utomi, Hisao; Kotashi, Takeshi; Kuraoka, Koji; Umeda, Morio;
uchiya, Takanori; and Imura, Yutaka, 4,695,089, Cl.
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ni, Mario, 4,690,282, Cl. 206-626.000.
h Industries: *See*—
nd, John G., 4,649,614, Cl. 29-257.000.
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lloway, Terry R., 4,688,495, Cl. 110-250.000.
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inwright, H. Kent, 4,682,156, Cl. 340-603.000.
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ch, Hans W.; and Tanner, Colin R., 4,688,953, Cl. 384-615.000.
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deki; and Shinkai, Hiroshi, to Canon Kabushiki Kaisha. Method
pparatus for alignment. 4,669,883, 6-2-87, Cl. 356-401.000.
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zuki, Akiyoshi; and Ina, Hideki, 4,634,240, Cl. 350-508.000.
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ka; and Abe, Tomoaki, to Nippondenso Co., Ltd. Heat wire type
owrate measuring apparatus. 4,665,745, 5-19-87, Cl. 73-204.000.

Ina, Kenzoh; Otani, Masatoshi; and Mishima, Kenichi, to Canon Kabushiki Kaisha. Image information processing system. 4,694,352, 9-15-87, Cl. 358-257.000.

Ina, Toshikazu: *See*—
  Obayashi, Hideki; Kawai, Hisasi; Ina, Toshikazu; Shigematsu, Takashi; Tokoro, Setsuo; and Kohama, Tokio, 4,691,286, Cl. 364-431.040.
  Sakakibara, Kazuo; Kuwakado, Satosi; Shimogawa, Toshiaki; Taguchi, Masahiro; Onimaru, Sadahisa; and Ina, Toshikazu, 4,669,780, Cl. 297-257.000.
  Tashiro, Syuzaburo; Ina, Toshikazu; Taguchi, Masahiro; Onimaru, Sadahisa; Nakano, Osamu; and Kuno, Akira, 4,707,788, Cl. 364-424.000.

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  Klug, Horst; Mocker, Wolfgang; Schaeffler, George; and Speil, Walter, 4,709,668, Cl. 123-90.550.
  Kraus, Gerhard, 4,652,474, Cl. 428-36.000.
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  Parzefall, Walter, 4,648,500, Cl. 192-99.00S.
  Spiess, Karl; Baberowski, Waldemar; and Glatter, Otto, 4,704,782, Cl. 29-434.000.

Inaba, Akio, to Nifco, Inc. Clip nut. 4,676,706, 6-30-87, Cl. 411-175.000.

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  Shioda, Mitsugu; and Inaba, Akio, 4,688,829, Cl. 285-61.000.

Inaba, Hideaki: *See*—
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  Yuasa, Yoshio; Naruse, Kazuhiko; and Inaba, Masahito, 4,655,576, Cl. 354-415.000.
  Yuasa, Yoshio; Yasumoto, Hidetoshi; Naruse, Kazuhiko; Kawagoe, Nobukazu; and Inaba, Masahito, 4,704,025, Cl. 355-38.000.

Inaba, Masao; Takahashi, Hiroshi; Nosaka, Kazuhiko; and Hattori, Takahiko, to NEC Corporation; and New Nippon Electric Co., Ltd. Segmented transversal filter. 4,649,507, 3-10-87, Cl. 364-724.000.

Inaba, Masao; and Kashigi, Kazuo, to NEC Corporation. Television signal scrambling apparatus. 4,673,975, 6-16-87, Cl. 380-14.000.

Inaba, Masatsugu; and Murasaki, Takumi, to Fuji Kagakushi Kogyo Co., Ltd. Lift-off tape usable many times. 4,634,629, 1-6-87, Cl. 428-343.000.

Inaba, Michihiko; Kanto, Masaharu; Shikanai, Satoshi; and Ohtake, Yasuhisa, to Kabushiki Kaisha Toshiba. Front end elements for a color cathode ray tube. 4,665,338, 5-12-87, Cl. 313-402.000.

Inaba, Michihiko; Fujiwara, Tetsuo; Kanto, Masaharu; Ohtake, Yasuhisa; and Mori, Fumio, to Kabushiki Kaisha Toshiba. Color picture tube having a shadow mask with a Cr enriched layer. 4,698,545, 10-6-87, Cl. 313-402.000.

Inaba, Mitsuharu; Sekiguchi, Takashi; Yoneyama, Yoshio; and Suzuki, Tadashi, to Fuji Jukogyo Kabushiki Kaisha. Crane device installed in cargo transporting vehicle. 4,639,182, 1-27-87, Cl. 414-543.000.

Inaba, Motohiro, to Nissan Motor Company, Limited. Engine exhaust control system. 4,665,692, 5-19-87, Cl. 60-324.000.

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  Fujita, Masahito; Kizaki, Masami; Miyazaki, Makoto; and Inaba, Naomi, 4,716,206, Cl. 526-139.000.
  Imai, Masafumi; Yamamoto, Tadashi; Furuhashi, Hiroyuki; Ueno, Hiroshi; and Inaba, Naomi, 4,652,541, Cl. 502-119.000.
  Imai, Masafumi; Yamamoto, Tadashi; Furuhashi, Hiroyuki; Ueno, Hiroshi; and Inaba, Naomi, 4,711,939, Cl. 526-124.000.
  Maruyama, Kouji; Nomura, Takeshi; Ueno, Hiroshi; and Inaba, Naomi, 4,686,265, Cl. 526-125.000.
  Yamamoto, Tadashi; Imai, Masafumi; Furuhashi, Hiroyuki; Ueno, Hiroshi; and Inaba, Naomi, 4,654,318, Cl. 502-119.000.
  Yamamoto, Tadashi; Imai, Masafumi; Furuhashi, Hiroyuki; Ueno, Hiroshi; and Inaba, Naomi, 4,711,940, Cl. 526-124.000.

Inaba, Norihiko: *See*—
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  Iiyama, Kiyotaka; and Inaba, Norihiko, 4,663,641, Cl. 346-204.000.
  Iiyama, Kiyotaka; and Inaba, Norihiko, 4,665,410, Cl. 346-204.000.

Inaba Seisakusho Ltd.: *See*—
  Sema, Teruji, 4,703,700, Cl. 108-10.000.
  Sema, Teruji, 4,703,701, Cl. 108-10.000.
  Uredat-Neuhoff, Angela, 4,714,028, Cl. 108-144.000.

Inaba, Shigeru: *See*—
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Imaizumi, Hiroyuki; Inaba, Takihiro; Morita, Seishi; Takeno, Ryuko; Murotani, Yoshiharu; Fukuda, Hirohiko; Yoshida, Junichi; Tanaka, Kiyoshi; Takano, Shuntaro; and Saikawa, Isamu, 4,656,287, Cl. 548-194.000.

Sadaki, Hiroshi; Imaizumi, Hiroyuki; Takeda, Kenji; Inaba, Takihiro; Takeno, Ryuko; Morita, Seishi; Kajita, Tetsuya; and Saikawa, Isamu, 4,667,040, Cl. 548-195.000.

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Inaba, Tsutomi: *See—*

Nakamura, Toshiyuki; Sugihara, Masahiro; Inaba, Tsutomi; Oide, Masahiko; Kimura, Tadashi; and Kobayashi, Norihide, 4,655,697, Cl. 418-55.000.

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Inaba, Tsutomu; Sugihara, Masahiro; Nakamura, Toshiyuki; Oide, Masahiko; Kimura, Tadashi; and Kobayashi, Norihide, to Mitsubishi Denki Kabushiki Kaisha. Motor driven scroll-type machine with compact oil lubricating structure. 4,702,682, 10-27-87, Cl. 418-55.000.

Inaba, Tsutomu; Sugihara, Masahiro; Nakamura, Toshiyaki; Oide, Masahiko; Kimura, Tadashi; and Kobayashi, Norihide, to Mitsubishi Denki Kabushiki Kaisha. Motor driven scroll-type machine with an eccentric bushing structure for enhancing lubrication. 4,702,683, 10-27-87, Cl. 418-55.000.

Inaba, Tsutomu; Kimura, Tadashi; Kobayashi, Norihide; Sugihara, Masahiro; and Matsugi, Tetsuzo, to Mitsubishi Denki Kabushiki Kaisha. Scroll-type fluid transferring machine with loose drive fit in crank shaft recess. 4,715,796, 12-29-87, Cl. 418-55.000.

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Inaba, Yasuhisa: *See—*

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Kazaoka, Kenichi; Okazaki, Hiroshi; and Inaba, Yasuhisa, 4,682,763, Cl. 267-89.000.

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Inaba, Yoshiharu, to Fanuc Ltd. Injection molding apparatus. 4,695,237, 9-22-87, Cl. 425-135.000.

Inaba, Yoshiharu, to Fanuc Ltd. Mold opening/closing speed control device. 4,696,632, 9-29-87, Cl. 425-150.000.

Inaba, Yoshihiro; Koshizuka, Kunihiro; Maehashi, Tatsuichi; and Abe, Takao, to Konishiroku Photo Industry Co., Ltd. Thermal transfer recording medium. 4,707,406, 11-17-87, Cl. 428-336.000.

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Inaba, Yushihiko. Method of collecting a sample of endometrium cells. 4,662,381, 5-5-87, Cl. 128-756.000.

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Inaba, Yutaka; and Ando, Yujiro, to Canon Kabushiki Kaisha. Ion generating device and method of manufacturing same. 4,691,213, 9-1-87, Cl. 346-159.000.

Inaba, Yutaka; Satomura, Hiroshi; Nagase, Yukio; Takeuchi Tatsuo; Egami, Hidemi; and Hosaka, Akihito, to Canon Kabushiki Kaisha. Electrostatic recording method and apparatus. 4,697,196, 9-29-87, Cl. 346-159.000.

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Okada, Shinjiro; Kanbe, Junichiro; Tsuboyama, Akira; and Inaba, Yutaka, 4,712,877, Cl. 350-350.00S.

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Inada, Mitate, to Kabushiki Kaisha Gakushu Kenkyusha. Corre answer displaying device for arithmetic practicing unit. 4,674 6-23-87, Cl. 116-279.000.

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Inada, Norio: *See—*

Imai, Isamu; Oshima, Kazuo; Tanaka, Kenichi; and Inada, Nor 4,708,185, Cl. 152-451.000.

Inada, Shoshichiro; Furukawa, Kurune; Masui, Takachika; Hond Keijiro; Ogasawara, Joji; and Tsubakimoto, Giichi, to Sete Kagaku Co., Ltd.; Shinko Seito Co., Ltd.; and Shinko Sugar Produc tion Co., Ltd. Process for recovering primary normal aliphatic high alcohols. 4,714,791, 12-22-87, Cl. 568-913.000.

Inada, Shunji: *See—*

Sugimoto, Norihiko; Inada, Shunji; and Usami, Nagatosh 4,680,756, Cl. 370-88.000.

Inada, Takeo: *See—*

Nishikawa, Makoto; Inada, Takeo; Tomoda, Hiroaki; Naruto, Ei Oki, Kazuyuki; and Hirano, Kouichi, 4,655,061, Cl. 70-271.00

Inada, Tomohide: *See—*

Nara, Toshio; Hobo, Sumiya; Kashiwada, Masao; Tomoki Motoyuki; Hoshiai, Takao; Umetani, Katsutoshi; Akazawa, Keisuke; Inada, Tomohide; and Takayama, Hisao, 4,639,22 C 433-69.000.

Inada, Tooru: *See—*

Sohma, Ken-ichi; Arashi, Norio; Azuhata, Shigeru; Narato, Kiyoshi; Inada, Tooru; Kobayashi, Hironobu; Ohtsuka, Keizou; an Hishinuma, Yukio, 4,653,998, Cl. 431-79.000.

Inada, Toshio: *See—*

Yamanashi, Hidenori; Inada, Toshio; and Wakabayashi, Seiich 4,701,662, Cl. 313-51.000.

Inada, Yasuo; Sato, Koki; Fujii, Takazo; Yokoyama, Hideo; Takahash Shoichi; Mizutani, Kiyoshi; Kawashima, Takayoshi; and Nagawa Akira, to Kabushiki Kaisha Toka-rika-denki-seisakusho; Toyoda Bohshoki Kabushiki Kaisha; and Hoshino Kougiyo Co., Ltd. Webbing for seatbelt system. 4,664,333, 5-12-87, Cl. 242-107.40A.

Inada, Yuji, to Bellex Corporation. Modified lipase. 4,645,741, 2-24-87, Cl. 435-134.000.

Inagaki, Akira: *See—*

Komeyama, Yoshihiro; Kembo, Yukio; Kuni, Asahiro; Funatsu, Ryuuichi; Inagaki, Akira; Ikeda, Minoru; and Okamoto, Keiich 4,708,484, Cl. 356-401.000.

Taniguchi, Motoya; Kuni, Asahiro; Funatsu, Ryuichi; Kembo, Yukio; and Inagaki, Akira, 4,666,291, Cl. 355-52.000.

Inagaki, Etsuo: *See—*

Hanada, Shigeru; Inagaki, Etsuo; and Nakata, Hiroya, 4,689,0 Cl. 373-104.000.

Inagaki, Hazime: *See—*

Tabata, Osamu; Inagaki, Hazime; and Kitano, Tomoyuk 4,680,963, Cl. 73-204.000.

Inagaki, Hiromichi, to Nihon Tokkyo Kanri Company Limited. Packaging bags. 4,669,251, 6-2-87, Cl. 53-385.000.

Inagaki, Hiromichi. Water-proof container. 4,679,724, 7-14-87, C 229-4.500.

Inagaki, Hiromichi. Casings for ham and sausage. 4,690,843, 9-1-87, C 428-36.000.

Inagaki, Hiroshi; Miyamoto, Takeaki; Ito, Hiraku; and Shibata, Tohru, to Daicel Chemical Industries Ltd. Anticoagulative high-molecular compositions. 4,708,951, 11-24-87, Cl. 514-57.000.

Inagaki, Hiroshi: *See—*

Shibahashi, Yutaka; Nakasuji, Norikazu; Kataoka, Takash Inagaki, Hiroshi; Kito, Tutomu; Ozaki, Masaharu; Matsumo Nobuaki; Ishimura, Naoya; and Fujita, Katuyuki, 4,681,791, C 428-96.000.

Inagaki, Hiroyuki: *See—*

Suzuki, Migaku; Sasaki, Satoshi; Mitsuno, Takashi; and Inagak Hiroyuki, 4,687,477, Cl. 604-385.00A.

Inagaki, Junichi: *See—*

Nakaoka, Kazuhide; Takada, Yoshikazu; Inagaki, Junichi; and Hiura, Akira, 4,715,905, Cl. 148-111.000.

Yamaura, Mitsuru; Inagaki, Junichi; and Ito, Hachidai, 4,709,29 Cl. 361-80.000.

Inagaki, Kazuya, to Toyota Jidosha Kabushiki Kaisha. Frame structure for vehicle body. 4,674,770, 6-23-87, Cl. 280-797.000.

Inagaki, Masahisa; Jinbo, Ryutaro; Kuniya, Keiichi; Masaoka, Isao; and Maki, Hideo, to Hitachi, Ltd. Zirconium alloy having superior corrosion resistance. 4,664,727, 5-12-87, Cl. 148-407.000.

Inagaki, Masahisa: *See—*

Haramaki, Takashi; Funamoto, Takao; Kokura, Satoshi; Inagak Masahisa; Jimbou, Ryutaro; Sasaki, Toshimi; and Nagayama Kousei, 4,691,856, Cl. 228-194.000.

Yoshida, Toshimi; Maki, Hideo; Umehara, Hajime; Yasuda, Tetsuo Masaoka, Isao; Takase, Iwao; Inagaki, Masahisa; Jimbow, Ryutarou; and Kuniya, Keiichi, 4,678,521, Cl. 148-11.50F.

Yoshida, Toshimi; Maki, Hideo; Umehara, Hajime; Yasuda, Tetsuo Masaoka, Isao; Takase, Iwao; Inagaki, Masahisa; Jimbow, Ryutarou; and Kuniya, Keiichi, 4,689,091, Cl. 148-11.50F.

Inagaki, Mitsuo: *See—*

Imoto, Yuzo; Takei, Toshihiro; Hattori, Yoshiyuki; Uno, Haruhiko Inagaki, Mitsuo; and Takeda, Kenji, 4,705,323, Cl. 303-116.00

Iwanami, Shigeki; Inagaki, Mitsuo; and Sasaya, Hideaki, 4,650,40 Cl. 418-5.000.

Takeda, Kenji; Inagaki, Mitsuo; Sasaya, Hideaki; and Matsu Kazuma, 4,690,465, Cl. 303-119.000.

Inagaki, Mitukane; Ohta, Masaki; Hyodo, Akihiko; Takenaka, Kenji Mitibata, Takashi; Suzuki, Shinichi; and Kayukawa, Hiroaki

shiki Kaisha Toyoda Jidoshokki Seisakusho. Variable displace-
wobble plate type compressor with guide means for wobble
4,712,982, 12-15-87, Cl. 417-222.000.
, Naoki: *See—*
nke, Takao; Takashima, Susumu; and Inagaki, Naoki, 4,653,099,
Cl. 381-51.000.
, Nobuo: *See—*
mura, Takao; Inagaki, Nobuo; Yoshihara, Mitsuo; and Kato,
Fumihiko, 4,639,080, Cl. 350-96.340.
, Shigemi: *See—*
kashima, Seiichiro; Toyoda, Kenichi; Inagaki, Shigemi; and Ito,
Susumu, 4,702,665, Cl. 414-730.000.
kashima, Seiichiro; Toyoda, Kenichi; Inagaki, Shigemi; and
Otsuka, Kazuhisa, 4,712,972, Cl. 414-744.00R.
, Taizo, to Kabushiki Kaisha Toshiba. Multistage hydraulic
ines. 4,674,953, 6-23-87, Cl. 415-201.000.
, Takafumi; Sasaoka, Hiroshi; Masutomi, Susumu; Itoh, Hiroshi;
Takada, Mitsuru, to Toyota Jidosha Kabushiki Kaisha. Diagnos-
pparatus for continuously variable transmission. 4,698,764,
87, Cl. 364-424.100.
, Takahumi: *See—*
h, Hiroshi; Takada, Mitsuru; Sasaoka, Hiroshi; Inagaki,
Takahumi; and Masutomi, Susumu, 4,689,745, Cl. 364-424.100.
, Takashi; Shimada, Toshio; and Yoshimoto, Tokuji, to Honda
n Kogyo Kabushiki Kaisha. Multi-cylinder internal combustion
ie. 4,685,428, 8-11-87, Cl. 123-52.00A.
, Takashi; and Nakano, Shinichi, to Honda Giken Kogyo Kabu-
Kaisha. Valve structure for an internal combustion engine.
,945, 8-18-87, Cl. 123-90.220.
, Takashi: *See—*
aizumi, Masahiro; Akai, Hiroshi; Irie, Takafumi; and Inagaki,
Takashi, 4,646,865, Cl. 180-73.100.
, Takefumi: *See—*
da, Hiroyuki; Matsumoto, Seikichi; Kitagawa, Shunji; Inagaki,
Takefumi; and Sebata, Ichiro, 4,639,070, Cl. 350-3.710.
kashima, Masato; Koezuka, Tetsuo; Tsukahara, Hiroyuki; and
Inagaki, Takefumi, 4,651,341, Cl. 382-34.000.
rasaki, Masataka; Nakajima, Hirochika; Furukawa, Yasuo; and
Inagaki, Takefumi, 4,637,027, Cl. 372-27.000.
mazaki, Kozo; Yamagishi, Fumio; Ikeda, Hiroyuki; Watanuki,
Hiroshi; Ishii, Mitsuharu; Sebata, Ichiro; and Inagaki, Takefumi,
4,647,143, Cl. 350-3.710.
mazaki, Kozo; Yamagishi, Fumio; Ikeda, Hiroyuki; Inagaki,
Takefumi; Sebata, Ichiro; Kitagawa, Shunji; Kato, Masayuki; and
Ichikawa, Toshiyuki, 4,655,541, Cl. 350-3.710.
, Tetsuya; Aoki, Hidemi; Aikawa, Hiroyasu; and Takahashi,
ao, to Zeria Shinyaku Kogyo Kabushiki Kaisha. Cycloartenol
ate/cyclodextrin complex. 4,70 ,472, 11-17-87, Cl. 514-58.000.
, Toshiyuki; and Furusawa, Choji, to Aisin Seiki Kabushiki
ha. Clutch pressure modulator valve device. 4,646,519, 3-3-87,
0-416.000.
, Toshiyuki, to Aisin Seiki Kabushiki Kaisha. Power transmis-
4,649,765, 3-17-87, Cl. 74-359.000.
, Toshiyuki; and Maeda, Hiroaki, to Aisin Seiki Kabushiki
ha. Oil pressure control system for power transmissions.
6,549, 11-17-87, Cl. 91-448.000.
, Toshiyuki: *See—*
nigawa, Naoya; Inagaki, Toshiyuki; and Maeda, Hiroyuki,
4,653,533, Cl. 137-565.000.
, Tsuguya: *See—*
numa, Eiichi; Kawamura, Youji; Obana, Hiroshi; Aizawa,
Takemi; Tamai, Motomi; Inagaki, Tsuguya; and Tokita, Minoru,
4,691,869, Cl. 241-31.000.
, Yasaburo; and Nakaizumi, Kazuo, to NEC Corporation. Semi-
ductor dynamic memory device with less power consumption in
nal refresh mode. 4,688,196, 8-18-87, Cl. 365-222.000.
, Yasaburo, to NEC Corporation. Semiconductor memory
ce with variable self-refresh cycle. 4,716,551, 12-29-87, Cl.
222.000.
, Yoshihiro: *See—*
keda, Fumiteru; Hirano, Katsuhiko; and Inagaki, Yoshihiro,
4,711,148, Cl. 84-1.010.
, Yoshio; and Shishido, Tadao, to Fuji Photo Film Co., Ltd.
aino-2-methyl-3-phenyl-1-(2,4,6-trichlorophenyl)-3-pyrazolin
e. 4,711,963, 12-8-87, Cl. 548-365.000.
, Yoshio: *See—*
oue, Nobuaki; Inagaki, Yoshio; and Kameoka, Kimitaka,
4,681,836, Cl. 430-434.000.
, Yumiko: *See—*
atsuura, Junichi; Kobayashi, Yoshiteru; Kishiro, Osamu; and
Inagaki, Yumiko, 4,662,905, Cl. 55-158.000.
ni, Kaoru; and Ohtsu, Takawo, to Calpis Food Industry Co., Ltd.,
; and JGC Corporation. Sterilizing process. 4,661,126, 4-28-87,
55-97.000.
ni, Kaoru; and Kikuchi, Noboru, to Calpis Food Industry Co.,
, The. Water-dispersible hydrophilic milk protein product.
1,011, 9-1-87, Cl. 530-832.000.
va, June; and Kojima, Tadashi, to Kabushiki Kaisha Toshiba.
trol apparatus for a recording medium drive motor in a digital
rmation reproducing apparatus. 4,700,337, 10-13-87, Cl.
50.000.
Kengo: *See—*
aigo, Yasuhito; Horibe, Takashi; Inage, Kengo; Naruse,
Shigeyasu; Nara, Takashi; Okamoto, Yoshizo; and Yamamoto,
Hironobu, 4,659,384, Cl. 106-35.000.
ya, Osamu; Fujiwara, Hideo; Tottori, Takeshi; Yamano, Minoru;
nasaka, Noriyuki; Otomo, Shigekazu; Kudo, Mitsuhiro;

Morikawa, Juiti; Ishihara, Kiyoshi; Usui, Akira; and Hayashi, Masashi, to Hitachi Maxell, Ltd.; and Hitachi, Ltd. Magnetic head to effect high density magnetic recording. 4,701,819, 10-20-87, Cl. 360-122.000.

Inaguma, Yukio: *See—*
  Asano, Katsuhiro; Inaguma, Yukio; and Iwama, Norio, 4,641,075, Cl. 318-811.000.

Inahara, Kazuo, to Nihon Kohden Corporation. Input device for hardwire patient monitoring system. 4,688,579, 8-25-87, Cl. 128-695.000.

Inai, Yuichi: *See—*
  Yamatsu, Isao; Inai, Yuichi; Abe, Shinya; Watanabe, Hideaki; Igarashi, Toshiji; Shiojiri, Hiroyuki; Tanabe, Yoshio; and Hara, Kumiko, 4,639,450, Cl. 514-238.000.
  Yamatsu, Isao; Inai, Yuichi; Abe, Shinya; Suzuki, Takeshi; Suzuki, Yoshikazu; Tagaya, Osamu; Suzuki, Kouichi; Abe, Kouichi; and Yamada, Kouji, 4,655,973, Cl. 260-404.000.
  Yamatsu, Isao; Abe, Shinya; Inai, Yuichi; Suzuki, Takeshi; Kinoshita, Kensaku; Mishima, Mannen; Katoh, Yoshinori; Kobayashi, Seiichi; Murakami, Manabu; and Yamada, Kouzi, 4,709,079, Cl. 560-66.000.

Inaji, Toshio; Okamoto, Hiroshi; and Yokobori, Nobuyoshi, to Matsushita Electric Industrial Co., Ltd. Rotary head deflection apparatus. 4,695,907, 9-22-87, Cl. 360-107.000.

Inako, Yoshihide: *See—*
  Sumi, Takao; Matoba, Takashi; Shimamoto, Kouichirou; and Inako, Yoshihide, 4,662,966, Cl. 156-230.000.

Inami, Mamoru: *See—*
  Tanaka, Yoshiaki; Inami, Mamoru; and Otsuki, Zenju, 4,665,494, Cl. 364-485.000.

Inami, Shunichi: *See—*
  Ishikawa, Katsutoshi; Shimotori, Hitoshi; Iida, Noboru; Ozawa, Shuji; and Inami, Shunichi, 4,652,569, Cl. 514-269.000.

Inami, Sumiaki: *See—*
  Momoi, Shoji; and Inami, Sumiaki, 4,679,286, Cl. 29-33.00P.

Inami, Yasuhiko; Watanabe, Masanori; and Hijikigawa, Masaya, to Sharp Kabushiki Kaisha. Field effect transistor-type moisture sensor. 4,638,346, 1-20-87, Cl. 357-25.000.

Inamine, Edward S.: *See—*
  Goegelman, Robert T.; Inamine, Edward S.; and White, Raymond F., 4,666,937, Cl. 514-450.000.
  Goegelman, Robert T.; White, Raymond F.; and Inamine, Edward S., 4,668,696, Cl. 514-450.000.
  Houck, David R.; Inamine, Edward S.; and Goetz, Michael A., 4,696,925, Cl. 514-219.000.

Inamorato, Jack T.; and Crossin, Michael C., to Colgate-Palmolive Company. Built single phase liquid anionic detergent compositions containing stabilized enzymes. 4,652,394, 3-24-87, Cl. 252-174.120.

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Inamori, Hiroo; Nasuda, Sigeyuki; Morimoto, Yoshio; and Haruna, Takayuki, to Daido Tokushuko Kabushiki Kaisha. Method and apparatus for winding wire rod. 4,691,874, 9-8-87, Cl. 242-80.000.

Inamori, Mikio: *See—*
  Takenoya, Hideaki; Inamori, Mikio; and Shomura, Eiichi, 4,640,210, Cl. 112-456.000.
  Takenoya, Hideaki; Syomura, Eiichi; and Inamori, Mikio, 4,649,845, Cl. 112-439.000.

Inamoto, Kiyoshi, to Sharp Kabushiki Kaisha. Corona discharger for separating copy paper from photoreceptor in electrophotographic copying machine. 4,640,606, 2-3-87, Cl. 355-14.0TR.

Inamoto, Tadayoshi; Noguchi, Hiromichi; and Munakata, Megumi, to Canoa Kabushiki Kaisha. Liquid jet recording head having a layer of a resin composition curable with an active energy ray. 4,688,052, 8-18-87, Cl. 346-140.00R.

Inamoto, Tadayoshi; Noguchi, Hiromichi; and Munakata, Megumi, to Canon Kabushiki Kaisha. Liquid jet recording head. 4,688,054, 8-18-87, Cl. 346-140.00R.

Inamoto, Tadayoshi, to Canon Kabushiki Kaisha. Ink-jet recording head with an improved bonding arrangement for the substrate and cover comprising the head. 4,698,645, 10-6-87, Cl. 346-140.00R.

Inamoto, Tadayoshi: *See—*
  Ikeda, Masami; Aoki, Seiichi; Saito, Akio; Inamoto, Tadayoshi; and Yokoi, Katsuyuki, 4,646,110, Cl. 346-140.00R.
  Noguchi, Hiromichi; Inamoto, Tadayoshi; and Munakata, Megumi, 4,688,053, Cl. 346-140.00R.
  Noguchi, Hiromichi; Inamoto, Tadayoshi; and Munakata, Megumi, 4,688,055, Cl. 346-140.00R.
  Noguchi, Hiromichi; Inamoto, Tadayoshi; and Munakata, Megumi, 4,688,056, Cl. 346-140.00R.
  Yokota, Masami; Sugitani, Hiroshi; and Inamoto, Tadayoshi, 4,666,823, Cl. 430-320.000.

Inamoto, Yoshiaki: *See—*
  Takaishi, Naotake; Urata, Kouichi; Inamoto, Yoshiaki; Tsutsumi, Hisao; and Kawano, Junichi, 4,634,719, Cl. 514-772.000.

Inamura, Atsuo: *See—*
  Shimizu, Hiroyasu; Inamura, Atsuo; and Haraguchi, Manabu, 4,664,289, Cl. 221-2.000.

Inamura, Junshiro: *See—*
  Nojiri, Yuukou; Ishizaki, Kosho; Ishida, Giichi; and Inamura, Junshiro, 4,644,232, Cl. 318-66.000.

Inamura, Kazuhiko, to Oki Electric Industry Co., Ltd. Rotary drier apparatus for semiconductor wafers. 4,677,759, 7-7-87, Cl. 34-58.000.

Inanaga, Takugi: *See—*
  Komatsubara, Masahiro; Kamimura, Tetsuro; Inanaga, Takugi; and Takahashi, Akira, 4,695,011, Cl. 242-199.000.

Inariba, Tokuzo. Manufacture of a miniature electric motor. 4,695,419, 9-22-87, Cl. 264-259.000.

Inashima, Satoshi; Terada, Kiyoshi; Wakabayashi, Hideo; and Tanaka, Yoshiharu, to Sony Corporation. Discharge protecting circuit for a television receiver. 4,689,684, 8-25-87, Cl. 358-190.000.

Inatsuki, Kenichi, to Fuji Photo Film Co., Ltd. Automatic notcher with judging device for film frames to be printed. 4,641,019, 2-3-87, Cl. 250-201.000.

Inatsuki, Kenichi, to Fuji Photo Film Co., Ltd. Method of reading image data. 4,710,818, 12-1-87, Cl. 358-214.000.

Inax Corporation: *See—*

  Aoyama, Fumihiko; Murata, Kazushige; and Hayashi, Masahiro, 4,664,610, Cl. 425-84.000.

  Iesaka, Takashi; Wada, Takaaki; Ohta, Ikumi; and Izumi, Masayuki, 4,638,618, Cl. 52-509.000.

  Ito, Kazuo; Terabe, Seiji; and Harada, Shozo, 4,663,104, Cl. 264-60.000.

  Kurata, Ikuro; Hayashi, Hideaki; Sugiyama, Kazumi; and Kuboi, Kunihiko, 4,654,108, Cl. 156-561.000.

  Terabe, Seiji; and Ito, Kazuo, 4,643,921, Cl. 428-15.000.

Inayama, Takayuki: *See—*

  Yokoyama, Shigeki; Inayama, Takayuki; Sugimoto, Naohiko; and Naoi, Takashi, 4,677,050, Cl. 430-536.000.

Inayashi, Minoru: *See—*

  Okura, Masahiko; and Inayashi, Minoru, 4,637,098, Cl. 24-136.00R.

Inazawa, Keichi: *See—*

  Fukuroi, Takeo; and Inazawa, Keichi, 4,639,983, Cl. 24-689.000.

Inazawa, Yoshizumi; Takahashi, Toshihiko; Tani, Toshiyuki; and Satomura, Shigeyuki, to Sony Corporation. Recording/reproducing apparatus. 4,641,208, 2-3-87, Cl. 360-72.200.

Inazawa, Yoshizumi: *See—*

  Furuya, Tsuneo; and Inazawa, Yoshizumi, 4,682,312, Cl. 369-32.000.

  Takahashi, Toshihiko; Inazawa, Yoshizumi; Tani, Toshiyuki; and Satomura, Shigeyuki, 4,688,115, Cl. 360-70.000.

Inazuma, Sunao: *See—*

  Matsumoto, Tadao; and Inazuma, Sunao, 4,708,055, Cl. 99-484.000.

Inbar, Michael, to Applied Magnetics Corp. Method of converting a pulse train of electrical signals into digital signals. 4,651,102, 3-17-87, Cl. 328-13.000.

Inbar, Michael, to Applied Magnetics Corp. Digital peak detecting means for a pulse train of electrical signals having a frequency within a known frequency bandwidth. 4,651,105, 3-17-87, Cl. 328-150.000.

Inberg, Gerald A.: *See—*

  Baron, Donna M.; Espenlaub, David E.; Haines, Vicki A.; Inberg, Gerald A.; Shilling, Steve A.; Truesdale, James B.; and Willett, Robert J., 4,635,187, Cl. 364-200.000.

Inbex, Inc.: *See—*

  Kilmon, Jack, 4,672,107, Cl. 530-350.000.

Incardona, Angelo: *See—*

  Sparling, Kenneth P.; Richardson, David G.; Incardona, Angelo; Wood, Ronald E.; Kikendall, Garth D.; and Bakow, Leon, 4,678,384, Cl. 411-43.000.

  Sparling, Kenneth P.; Incardona, Angelo; Kikendall, Garth D.; Richardson, David G.; Wood, Ronald E.; and Bakow, Leon, 4,681,499, Cl. 411-507.000.

  Sparling, Kenneth P.; Incardona, Angelo; Kikendall, Garth D.; Richardson, David G.; Wood, Ronald E.; and Bakow, Leon, 4,695,213, Cl. 411-506.000.

  Sparling, Kenneth P.; Incardona, Angelo; Kikendall, Garth D.; Richardson, David G.; Wood, Ronald E.; and Bakow, Leon, 4,712,958, Cl. 411-506.000.

Ince, Francis; and Tinker, Alan C., to Fisons plc. Compounds. 4,657,929, 4-14-87, Cl. 514-524.000.

Incefy, Genevieve S.: *See—*

  Erickson, Bruce W.; Fok, Kam-Fook; Incefy, Genevieve S.; and Ohga, Kazuhiro, 4,634,682, Cl. 436-518.000.

Inciong, Josefino T.; and Widder, Edward S., to Felt Products Mfg. Co. Gasket assembly for oil pan valve covers and the like. 4,655,463, 4-7-87, Cl. 277-180.000.

Incitti, Corkey. Camp stove. 4,696,282, 9-29-87, Cl. 126-9.00R.

Inclasco Corporation Ltd.: *See—*

  Drolet, Denis; Burchmore, William; and Drolet, Leo, 4,684,130, Cl. 273-67.00A.

Inco Alloys International, Inc.: *See—*

  Benn, Raymond C., 4,634,491, Cl. 156-603.000.

  Benn, Raymond C.; Davidson, Jeffrey M.; and Andryszak, Kenneth R., 4,668,312, Cl. 148-410.000.

  Gilman, Paul S.; and Donachie, Stephen J., 4,643,780, Cl. 148-12.70A.

  Gilman, Paul S.; Jatkar, Arun D.; Donachie, Stephen J.; Woodward, Winfred L., III; and Mattson, Walter E., 4,668,282, Cl. 75-0.50R.

  Gilman, Paul S.; Jatkar, Arun D.; Donachie, Stephen; Woodard, Winfred L., III; and Mattson, Walter E., 4,668,470, Cl. 419-32.000.

  Orlando, John J., 4,653,335, Cl. 73-863.850.

  Orlando, John J., 4,679,736, Cl. 241-25.000.

  Shoemaker, Lewis E.; and Bates, Thomas O., 4,639,576, Cl. 219-146.230.

  Smith, Gaylord D.; Brown, Douglas S.; Bernstein, Philip; and Weller, John E., 4,673,754, Cl. 556-137.000.

  Tassen, Curtis S.; and Smith, Gaylord D., 4,685,427, Cl. 122-511.000.

Inco Engineered Products Ltd.: *See—*

  Law, Anthony G.; and Fleetwood, Michael J., 4,709,741, C 164-463.000.

Inco Limited: *See—*

  Bell, James A. E.; and Krause, Eberhard, 4,657,746, C 423-242.000.

  England, John R.; and Riach, Richard L., 4,637,475, Cl. 173-41.00

  Hradil, John H.; Bottomley, Frank; and Crawshay, Richar 4,648,776, Cl. 414-565.000.

  Pfeil, Leonard B., 4,673,430, Cl. 75-0.5AA.

Incoe Corporation: *See—*

  Seres, Alex, 4,644,678, Cl. 43-4.000.

Incoe Exp. Inc.: *See—*

  Gauler, Kurt, 4,702,686, Cl. 425-190.000.

Incom, Inc.: *See—*

  Jeskey, Richard V., 4,647,152, Cl. 350-96.240.

  Jeskey, Richard V., 4,669,813, Cl. 350-96.100.

  Jeskey, Richard V., 4,693,552, Cl. 350-96.240.

Incom International Inc.: *See—*

  McCloskey, Albert R., 4,674,164, Cl. 29-149.50B.

Incomm Direct Pty. Ltd.: *See—*

  Berton, Andrew S., 4,690,410, Cl. 273-299.000.

Incorvia, Michael J., to Texaco, Inc. Reaction product of hydroge sulfide with the reaction product of a dione and a primary polyamine 4,663,124, 5-5-87, Cl. 422-7.000.

Incorvia, Samuel A.: *See—*

  Cullen, John S.; Incorvia, Samuel A.; and Vogt, James A. 4,642,973, Cl. 53-546.000.

Incotex B.V.: *See—*

  Wright, Kenneth, 4,663,946, Cl. 66-177.000.

Inculet, Ion I., to Canadian Patents and Development Limited. Mul liquid electrostatic spraying apparatus. 4,666,089, 5-19-87, C 239-707.000.

Inculet, Ion I.; and Castle, George S. P., to Canadian Patents and Development Limited. Spraying apparatus. 4,673,132, 6-16-87, C 239-706.000.

Inculet, Ion I., to Canadian Patents and Development Limited. Continuous electrostatic conveyor for small particles. 4,700,262, 10-13-87, C 361-233.000.

Inczedy, Peter: *See—*

  Dombay, Zsolt; Grega nee Toth, Erzsebet; Nagy, Jozsef; Pavlisc sak, Csaba; Tasi, Laszlo; Toth, Andras; Toth, Oszkar; Vitany Judit; Bihari, Ferenc; Bohus, Peter; Inczedy, Peter; Magyar, Istvan; Kertesz nee Szabo, Marianna; Wohl, Laszlo; and Ferenczi, Attila, 4,670,429, Cl. 514-187.000.

Ind Inventions and Development of Novelties AG: *See—*

  Ackeret, Peter, 4,705,166, Cl. 206-309.000.

Indak Manufacturing Corp.: *See—*

  Black, Charles E., III; and Halstead, Raymond T., 4,678,249, C 439-77.000.

  Cummings, John G., 4,667,068, Cl. 200-61.860.

  Habecker, John W.; and Black, Charles E., III, 4,691,086, C 200-159.00R.

  Raab, Andrew F.; and Cobb, Albert R., III, 4,679,588, C 137-560.000.

  Raab, Andrew F.; and Habecker, John W., 4,710,601, C 200-302.300.

Indal, Inc.: *See—*

  Rushford, Calvin R., 4,640,046, Cl. 49-44.000.

Indal Technologies Inc.: *See—*

  Wood, Charles F., 4,659,284, Cl. 416-36.000.

  Wood, Charles F., 4,664,596, Cl. 416-32.000.

Indalloy Division of Indal Limited: *See—*

  Kozierok, Leon; and Gallagher, Robert, 4,676,742, Cl. 432-143.00

Indapp Engineering B.V.: *See—*

  Van der Hulst, Herman L.; and Meerman, Arend H., 4,685,713, C 294-90.000.

Inden, Masahiro; Kuwana, Kazutaka; Nakanishi, Nobuyasu; and Noguchi, Noboru, to Aisin Seiki Kabushiki Kaisha; and Toyota Jidosha Kabushiki Kaisha. Fluid pressure controlling solenoid valve 4,679,589, 7-14-87, Cl. 137-596.170.

Independent Broadcasting Authority: *See—*

  Beech, Brian H.; and Moore, Simon, 4,654,601, Cl. 329-122.00

  Beech, Brian H., 4,658,296, Cl. 358-167.000.

  Beech, Brian H., 4,700,216, Cl. 358-23.000.

  Crowther, Gerald O.; and Mason, Arthur G., 4,636,854, C 358-123.000.

  Douglas, Peter G.; and Kyffin, Morris N., 4,710,815, C 358-186.000.

  Drury, Gordon M.; Mason, Arthur G.; Lodge, Nicolas K.; and Flannaghan, Barry A., 4,636,851, Cl. 358-119.000.

  Flannaghan, Barry A., 4,703,358, Cl. 358-167.000.

  Hackett, Andrew D., 4,675,722, Cl. 358-13.000.

  Harding, Wilfrid B.; and Amin, Mohammad B., 4,661,954, C 371-37.000.

  Morcom, Richard, 4,639,764, Cl. 358-14.000.

  Morcom, Richard; and Hurley, Terence R., 4,700,345, C 370-118.000.

  Tonge, Gary J., 4,697,206, Cl. 358-14.000.

Independent Explosives Co. of Penna.: *See—*

  Rehman, Habib U., 4,664,729, Cl. 149-21.000.

Independent Technologies, Inc.: *See—*

  Ingalsbe, David L., 4,703,497, Cl. 379-22.000.

Indescor Hydrodynamics Inc.: *See—*

  Puchala, Ryszard J.; and Miko, Stephen J., 4,640,644, C 404-75.000.

lesit Industria Elettrodomestici Italiana S.p.A.: *See—*
Alluto, Luigi; Delotto, Romeo; and Orlandin, Vanis, 4,645,124, Cl. 236-20.00A.
Delotto, Romeo; and Orlandin, Vanis, 4,646,963, Cl. 236-20.00A.
lex-Werke Komm.-Ges. Hahn & Tessky: *See—*
Lahm, Heinrich, 4,700,442, Cl. 29-39.000.
Link, Helmut F., 4,635,340, Cl. 29-558.000.
Link, Helmut F.; Trautmann, Gunther; and Herrscher, Albert, 4,640,158, Cl. 82-3.000.
Link, Helmut F.; and Grossmann, Walter, 4,644,636, Cl. 29-568.000.
Link, Helmut F.; and Schafer, Erich E., 4,645,219, Cl. 279-1.00C.
Link, Helmut F., 4,677,719, Cl. 29-40.000.
Link, Helmut F., 4,683,787, Cl. 82-18.000.
lian Head, Inc.: *See—*
Pate, Harold T.; and Fochler, Helmut P., 4,647,074, Cl. 285-64.000.
iana Mills & Manufacturing, Inc.: *See—*
Anthony, James R.; and Merrick, David, 4,651,946, Cl. 242-107.200.
Anthony, James R.; and Lortz, Allan R., 4,660,889, Cl. 297-467.000.
Anthony, James R.; and Lortz, Allan R., 4,679,852, Cl. 297-464.000.
Anthony, James R.; and Wiseman, Michael A., 4,692,970, Cl. 24-642.000.
liana University Foundation: *See—*
Hieftje, Gary M.; and Honigs, David H., 4,642,778, Cl. 364-498.000.
Kaplan, Jerome I., 4,642,567, Cl. 324-309.000.
Kesmodel, Lawrence L., 4,659,926, Cl. 250-305.00C.
lianapolis Center for Advanced Research: *See—*
Sanghvi, Narendra T.; Fry, Francis J.; Morris, Richard F.; and Stuber, Richard A., 4,664,121, Cl. 128-660.000.
licator Controls Corporation: *See—*
Martin, Marshall H., 4,680,717, Cl. 364-436.000.
lo, Kenji; and Ishimaru, Yoshihiko, to Sokkisha Co., Ltd. Mechanism for mounting measuring system using magnetic scale. 4,663,853, 5-12-87, Cl. 33-125.00C.
lo, Kenji, to Sokkisha Co., Ltd. Multi-gap head apparatus for use with a magnetic scale. 4,672,317, 6-9-87, Cl. 324-208.000.
loor Archery International Corporation: *See—*
Paraskevakos, Theodore G., 4,708,341, Cl. 272-135.000.
luctive Control Systems B.V.: *See—*
Ruumpol, Geurt J., 4,642,595, Cl. 336-135.000.
luctotherm Corporation: *See—*
Cartlidge, Jesse M., 4,695,316, Cl. 75-10.140.
Mortimer, John H., 4,673,025, Cl. 164-457.000.
Mortimer, John H., 4,688,231, Cl. 373-138.000.
luctotherm Industries, Inc.: *See—*
Mortimer, John H., 4,639,931, Cl. 373-138.000.
lustra Products, Inc.: *See—*
Moser, Keith W., 4,648,176, Cl. 29-596.000.
lustri AB Thule: *See—*
Thulin, Willis, 4,688,706, Cl. 224-329.000.
lustrial Adhesives, Inc.: *See—*
Getz, John L., 4,692,202, Cl. 156-554.000.
lustrial Automation Corporation: *See—*
Totten, Roger W., 4,635,662, Cl. 134-68.000.
lustrial Clutch Corporation: *See—*
Matson, Robert C., 4,633,986, Cl. 192-18.00A.
lustrial Electric Heating, Inc.: *See—*
Rylicki, Edward J., 4,701,584, Cl. 219-10.570.
lustrial Equipment & Engineering, Inc.: *See—*
Carlin, Hervin A., Jr., 4,699,294, Cl. 220-465.000.
lustrial Filter & Pump Mfg. Co.: *See—*
Zievers, James F.; and Eggerstedt, Paul, 4,664,752, Cl. 203-10.000.
Zievers, James F.; and Eggerstedt, Paul, 4,713,174, Cl. 210-233.000.
lustrial Holographics, Inc.: *See—*
Grant, Ralph M.; Haskell, Richard E.; Paskus, Anthony; Windeler, Stanley R.; and Wright, Forrest S., 4,690,552, Cl. 356-35.500.
Grant, Ralph M., 4,702,594, Cl. 356-35.500.
lustrial Innovations, Inc.: *See—*
Urbani, William G., 4,647,383, Cl. 210-768.000.
Urbani, William G., 4,672,710, Cl. 15-302.000.
Urbani, William G., 4,687,584, Cl. 210-769.000.
Urbani, William G., 4,707,878, Cl. 15-302.000.
Urbania, William G., 4,696,073, Cl. 15-302.000.
lustrial Insulations, Inc.: *See—*
Frahme, Carl E., 4,633,637, Cl. 52-512.000.
lustrial Iron Works, Incorporated: *See—*
Adams, William W., 4,703,818, Cl. 180-53.600.
lustrial Management Co.: *See—*
Rooklyn, Jack, 4,702,951, Cl. 428-193.000.
lustrial Metal Products Corporation: *See—*
Judge, Norman R.; Judge, Edward E., Jr.; and Reiser, Arthur G., 4,682,444, Cl. 51-154.000.
lustrial Polymers, Inc.: *See—*
Boddie, Carl E., 4,659,748, Cl. 521-170.000.
lustrial Power Controls Inc.: *See—*
Westfall, Raymond T.; and Kohls, John F., 4,672,301, Cl. 323-243.000.
lustrial Research Development, Inc.: *See—*
Stewart, Victor M., 4,680,909, Cl. 52-409.000.
Stewart, Victor M., 4,706,418, Cl. 52-58.000.
Stewart, Victor M., 4,706,435, Cl. 52-533.000.
lustrial Research Institute: *See—*
Tamura, Takaaki; Fujita, Norihiko; Kawanishi, Toshio; and Matsuura, Chihiro, 4,652,537, Cl. 502-5.000.
lustrial Research Products, Inc.: *See—*
Killion, Mead C., 4,689,819, Cl. 381-68.000.
Industrial Science Associates: *See—*
Durand, David, 4,656,314, Cl. 174-68.500.
Industrial Technology Institute: *See—*
Hornacek, Kenneth J., 4,674,948, Cl. 414-744.00A.
Industrial Technology Research Institute: *See—*
Chen, Chang C., 4,685,388, Cl. 99-641.000.
Chiu, Horn-Ming; and Rei, Min-Hon, 4,670,605, Cl. 568-361.000.
Kuo, Tai-Haur, 4,706,013, Cl. 323-316.000.
Lee, Ming-Kwang, 4,673,521, Cl. 252-512.000.
Lee, Ming-Kwang, 4,685,196, Cl. 437-41.000.
Luo, Jih-Tzang, 4,671,134, Cl. 74-689.000.
Luo, Jih-Tzang, 4,708,100, Cl. 123-73.0PP.
Shyu, Jia-Ming, 4,708,337, Cl. 272-69.000.
Yeh, Der-Zong; Wang, Der-Chyen; and Hsu, Tung-Tian, 4,669,898, Cl. 400-124.000.
Industrial Technology Research Institute Republic of China: *See—*
Wan, Shyue-Yun; Guo, Jeng-Joung; and Lin, Cheng-Fung, 4,701,937, Cl. 375-25.000.
Industrial Trade Exchange, Inc.: *See—*
Smith, Peter R., 4,641,625, Cl. 123-575.000.
Industrial Vehicles International, Inc.: *See—*
Bird, James M., 4,658,930, Cl. 181-113.000.
Bird, James M., Sr.; and Lewis, Jesse M., 4,635,747, Cl. 181-120.000.
Industrias Mediterraneo, S.A.: *See—*
Sanchez, Don Casimiro L., 4,653,161, Cl. 29-156.40R.
Industrias Romi S/A: *See—*
Romi, Romeu, 4,646,893, Cl. 192-85.0CA.
Romi, Romeu, 4,665,783, Cl. 82-5.000.
Industrie Magneti Marelli S.r.l.: *See—*
Angelillo, Domenico, 4,712,577, Cl. 137-270.000.
Industrie Pirelli S.p.A.: *See—*
Robecchi, Edoardo; and Dell'Orto, Renato, 4,708,702, Cl. 474-261.000.
Tangorra, Giorgio, 4,634,396, Cl. 464-55.000.
Tangorra, Giorgio; Cicognani, Mario; and Macchiarulo, Vincenzo, 4,634,410, Cl. 474-153.000.
Tangorra, Giorgio; and Robecchi, Edoardo, 4,657,526, Cl. 474-261.000.
Tangorra, Giorgio, 4,661,088, Cl. 474-237.000.
Tangorra, Giorgio, 4,697,674, Cl. 188-298.000.
Industrie Specializzate Articoli Plastici SpA: *See—*
Padovani, Pietro, 4,688,714, Cl. 229-2.5EC.
Industriell Arbetshygien i Soderhamn AB: *See—*
Krantz, Anders, 4,655,805, Cl. 55-298.000.
Industries Plastiques Maules—IPM: *See—*
Thivichon-Prince, Guy; and Thivichon-Prince, Jacky, 4,661,055, Cl. 425-556.000.
Industries Tanguay, Inc.: *See—*
Pelletier, Jean; Tanguay, Jacques; and Potvin, Clement, 4,650,017, Cl. 180-9.100.
Indyk, Richard F.; Lamelas, Francisco J.; and Neisser, Mark O., to International Business Machines Corporation. Screenable paste for use as a barrier layer on a substrate during maskless cladding. 4,663,156, 5-5-87, Cl. 427-57.000.
Inficon Leybold-Heraeus, Inc.: *See—*
Gogol, Carl A., 4,692,630, Cl. 250-573.000.
Holkeboer, David H., 4,672,203, Cl. 250-289.000.
Infinet, Inc.: *See—*
Holsinger, Jerry L.; Jotikasthira, Charamporn; and Pahlavan, Kaveh, 4,660,213, Cl. 375-39.000.
Pahlavan, Kaveh; and Holsinger, Jerry L., 4,660,214, Cl. 375-39.000.
Infinity Boring Tool Company: *See—*
Peterson, Richard L., 4,710,073, Cl. 408-181.000.
Infinity Pumping Systems: *See—*
Mosley, Bobbie L., 4,660,426, Cl. 74-41.000.
Info-Chem, Inc.: *See—*
Witonsky, Robert J.; and Larsson, Raymond P., 4,643,980, Cl. 436-128.000.
Infoquest Corporation: *See—*
Hibbard, Earl R., 4,669,838, Cl. 353-26.00A.
Informatek - Sopha Medical: *See—*
Roux, Georges; Mestais, Corinne; and Gauthier, Rene, 4,672,542, Cl. 364-414.000.
Infors GmbH: *See—*
Hawrylenko, Alexander, 4,668,220, Cl. 604-155.000.
Infrarodteknik AB: *See—*
Bjornberg, Thomas, 4,685,762, Cl. 350-1.100.
Infusino, Ralph J.; and Schulz, Arthur M., to Riddell, Inc. Adjustable chin strap assembly for athletic helmets. 4,646,368, 3-3-87, Cl. 2-421.000.
Infusion Systems Corporation: *See—*
Gortz, Norman, 4,702,397, Cl. 222-211.000.
Ing. A. Hilty: *See—*
Hilty, Andreas, 4,658,999, Cl. 224-202.000.
Ing. Alfred Schmidt GmbH: *See—*
Schmidt, Alfred, 4,715,134, Cl. 37-238.000.
Ing. C. Olivetti: *See—*
Graciotti, Alessandro, 4,716,527, Cl. 364-200.000.
Ing. C. Olivetti & C., S.p.A.: *See—*
Bava, Gianfranco; and Enrico, Franco, 4,651,174, Cl. 346-140.00R.
Bertina, Domenico, 4,658,124, Cl. 235-145.00R.
Bettini, Giuseppe, 4,672,486, Cl. 360-97.000.
Cantello, Giuseppe; and Concari, Severino, 4,683,504, Cl. 360-78.000.

- Cappio, Emilio C.; and Guerrini, Giampaolo, 4,661,698, Cl. 250-231.0SE.
- Carena, Ugo; Coli, Giuseppe; and Fogaroli, Giuseppe, 4,683,501, Cl. 358-293.000.
- Castellano, Pietro, 4,682,188, Cl. 346-140.00R.
- Coli, Giuseppe, 4,651,229, Cl. 358-285.000.
- Conta, Renato; Rocchi, Remo; and Scardovi, Alessandro, 4,675,043, Cl. 65-160.000.
- Corallo, Gianbattista; and Domenici, Gilberto, 4,666,039, Cl. 206-424.000.
- Crotti, Alessandro; and Luc, Roberto R., 4,703,332, Cl. 346-140.00R.
- Dagna, Giandomenico, 4,679,059, Cl. 346-140.00R.
- Graciotti, Alessandro; and Kutscha, Herbert A., 4,713,779, Cl. 364-521.000.
- Guerrini, Giampaolo; and Sommacal, Franco, 4,702,107, Cl. 73-319.000.
- Guerrini, Giampaolo; and Caligaris Cappio, Emilio, 4,716,289, Cl. 250-231.0SE.
- Knirsch, Franco; and Coli, Giuseppe, 4,651,198, Cl. 358-75.000.
- Knirsch, Franco; and Gianolini, Giovanni, 4,687,701, Cl. 428-216.000.
- Racchia, Loriano, 4,706,076, Cl. 340-726.000.
- Scardovi, Alessandro; and Fetta, Adriano, 4,689,641, Cl. 346-140.00R.
- Scardovi, Alessandro, 4,695,852, Cl. 346-140.00R.
- Tronzano, Sergio, 4,685,010, Cl. 360-97.000.
- Ukmar, Boris; and Trompetto, Mario, 4,669,902, Cl. 400-208.000.
- Valle, Franco; and Musso, Pietro, 4,637,744, Cl. 400-185.000.
- Vittorelli, Vittore, 4,703,504, Cl. 381-51.000.

Ing. Erich Pfeiffer GmbH & Co. KG: *See—*
- Graf, Lothar; Maerte, Leo; and Skorka, Thomas, 4,694,977, Cl. 222-259.000.
- Schuetz, Hans-Josef, 4,694,976, Cl. 222-189.000.

Ing. H.c.F. Porsche Aktiengesellschaft: *See—*
- Anhegger, Sigmund; and Lehmann, Klaus-Peter, 4,656,807, Cl. 52-718.100.

Ing. Rolf Seifert Electronic GmbH: *See—*
- Seifert, Rolf; and Schlicker, Volker, 4,653,988, Cl. 416-39.000.

Ing Shoji Co., Ltd.: *See—*
- Kawatsu, Hajime, 4,653,777, Cl. 285-16.000.

Ingalls, Robert A. Screw rotor machine with specific lobe profiles. 4,673,344, 6-16-87, Cl. 418-201.000.

Ingalsbe, David L., to Independent Technologies, Inc. Four pair cable test set. 4,703,497, 10-27-87, Cl. 379-22.000.

Inge, Claes; Lagerstedt, Torgny; Borgstroem, Leonard; Carlsson, Claes-Goeran; Naebo, Sven-Olof; Moberg, Hans; and Franzen, Peter, to Alfa-Laval Separation AB. Centrifugal separator. 4,701,158, 10-20-87, Cl. 494-74.000.

Ingebright, David E., to Boeing Company, The. Aircraft communications apparatus. 4,700,379, 10-13-87, Cl. 379-167.000.

Ingegard, Olsson: *See—*
- Ove, Olsson; and Ingegard, Olsson, 4,633,816, Cl. 119-72.500.

Ingels, Luis: *See—*
- White, Larry; and Ingels, Luis, 4,680,825, Cl. 15-105.000.

Ingendoh, Axel; Meyer, Horst; and Garthoff, Bernward, to Bayer Aktiengesellschaft. Novel hypotensive imidazothiadiazolealkanecarboxamides. 4,657,905, 4-14-87, Cl. 514-231.000.

Ingendoh, Axel; Berschauer, Friedrich; Becker, Benedikt; Stendel, Wilhelm; Homeyer, Bernhard; Scheer, Martin; de Jong, Anno; Hanssler, Gerd; and Reinecke, Paul, to Bayer Aktiengesellschaft. Biologically active agents containing substituted isoxazolidines. 4,678,797, 7-7-87, Cl. 514-378.000.

Ingendoh, Axel; Scheinert, Wolfgang; Becker, Benedikt; Halcour, Kurt; and Stendel, Wilhelm, to Bayer Aktiengesellschaft. Isoxazolidine insecticides and fungicides. 4,681,892, 7-21-87, Cl. 514-378.000.

Ingendoh, Axel; Meyer, Horst; and Garthoff, Bernward, to Bayer Aktiengesellschaft. Amidazothiodiazone carbonyl compounds useful to prepare novel hypotensive imidazothiadiazolealkenecarboxamides and intermediates therefor. 4,703,125, 10-27-87, Cl. 548-126.000.

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Ingenhoven, Jurgen, to Kiekert GmbH & Co. Kommandi[illegible]aft. Device for actuating a motor vehicle door closure. 4,645,[illegible]-87, Cl. 192-36.000.

Ingenhoven, Jurgen, to Kiekert GmbH & Co. Kommanditgesellschaft. Central locking device for automobile doors. 4,669,283, 6-2-87, Cl. 70-264.000.

Ingenhoven, Jurgen, to Kiekert GmbH & Co. Kommanditgesellschaft. Electrically controlled central locking device for automobile doors. 4,708,378, 11-24-87, Cl. 292-201.000.

Ingenieurburo S. Ficker: *See—*
- Ficker, Stefan, 4,665,101, Cl. 521-41.000.

Ingenieurburo Timmer GmbH: *See—*
- Timmer, Hans H.; and Reichel, Wolfgang, 4,683,941, Cl. 165-47.000.

Ingenieursbureau Marcon (Marine Consultants) B.V.: *See—*
- Koot, Petrus C., 4,666,187, Cl. 285-24.000.

Ingenior F. Selmer A/S Norway: *See—*
- Einstabland, Tomas; and Opedal, Torlak, 4,688,967, Cl. 405-222.000.

Ingenjorsfirma B Nord AB: *See—*
- Nord, Bert, 4,715,705, Cl. 353-120.000.

Ingenuity Unlimited, Inc.: *See—*
- Bowman, Gary K., 4,715,966, Cl. 210-800.000.

Ingersoll Cutting Tool Company: *See—*
- Johnson, William B., 4,712,949, Cl. 407-42.000.
- Luck, Edwin, 4,697,963, Cl. 407-105.000.
- Smith, Darrel E., 4,645,386, Cl. 407-113.000.

Ingersoll Equipment Co., Inc.: *See—*
- Schlapman, William J.; Wirsbinski, James L.; and Manteufel, Dale, 4,662,646, Cl. 280-462.000.

Ingersoll Milling Machine Company, The: *See—*
- Korwin, David A.; and Remillard, Robert E., 4,662,117, Cl. 51-5.00R.
- Lewis, Henry W.; and Romero, Jorge E., 4,696,707, Cl. 156-64.000.
- Lewis, Henry W.; and Van Roojen, Jan, 4,709,465, Cl. 29-568.000.

Ingersoll-Rand Company: *See—*
- Back, Carl F., 4,671,365, Cl. 173-28.000.
- Decker, Robert W., 4,690,622, Cl. 417-342.000.
- Goyarts, Wynand M., 4,640,369, Cl. 173-42.000.
- Hartshorn, Kevin, 4,643,220, Cl. 137-516.130.
- Hartshorn, Kevin, 4,705,068, Cl. 137-512.100.
- Hughes, Robert W., 4,706,764, Cl. 175-320.000.
- Jordan, Raymond M., 4,665,949, Cl. 138-37.000.
- Kates, Richard; and Chyb, Mario, 4,652,178, Cl. 405-259.000.
- Kirkland, Thomas R., Jr., 4,639,196, Cl. 417-228.000.
- Krasnoff, Eugene L., 4,707,952, Cl. 51-410.000.
- Kursar, James V., 4,694,732, Cl. 92-60.500.
- Larson, John A., 4,702,887, Cl. 420-442.000.
- Lewis, Frederick; and Muhson, Robert W., 4,643,439, Cl. 277-95.000.
- McCoy, Gregory A., 4,649,978, Cl. 152-410.000.
- Miller, Bernard F., 4,714,414, Cl. 418-11.000.
- Wehber, Wayne F., 4,657,264, Cl. 277-118.000.

Ingersoll, Roger W., to Mobil Oil Corporation. System and method for controlling erosion of a shoreline. 4,693,632, 9-15-87, Cl. 405-18.000.

Ingf. C. Olivetti & C., S.p.A.: *See—*
- Prevignano, Paolo, 4,688,957, Cl. 400-605.000.

Ingham, Gary G.: *See—*
- Ingham, Steven G.; and Ingham, Gary G., 4,658,545, Cl. 49-340.000.

Ingham, Kenneth T.: *See—*
- Davis, Donald E.; and Ingham, Kenneth T., 4,660,435, Cl. 74-572.000.

Ingham, Paul: *See—*
- Greaves, Brian; and Ingham, Paul, 4,692,315, Cl. 422-18.000.

Ingham, Steven G.; and Ingham, Gary G. Automatic door opener and closer. 4,658,545, 4-21-87, Cl. 49-340.000.

Ingham, Vernon R.: *See—*
- Marshall, Michael S.; and Ingham, Vernon R., 4,642,007, Cl. 410-78.000.

Ingle, Frank: *See—*
- Mundy, Thomas C., Jr.; and Ingle, Frank, 4,656,656, Cl. 379-113.000.

Ingle, Frank W.; and Selfridge, Alan R., to Kendall Company, The. Biological fluid specific gravity monitor with ultrasonic sensor circuit. 4,664,124, 5-12-87, Cl. 128-660.000.

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Ingleby, Leslie W. Apparatus for dispensing particulate material. 4,655,371, 4-7-87, Cl. 222-355.000.

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Inglis, James L., to Farmland Industries, Inc. Battery plant waste water treatment process. 4,652,381, 3-24-87, Cl. 210-724.000.

Inglis, Peter J.; and Tysoe, Nicholas W., to Britax Vega Limited. Vehicle lamp assembly. 4,644,455, 2-17-87, Cl. 362-309.000.

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Ingman, Thomas M., to Condor, Inc. Automatic switchover circuit. 4,658,345, 4-14-87, Cl. 363-143.000.

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ckner, Frederick L.; Hulderman, Garry N.; and Ingram, Darrell
K., 4,647,873, Cl. 331-4.000.
, Douglas E.: *See—*
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Vest Inc. Emergency medical services system. 4,637,075,
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Kalawrytinos, Georg. Process for waste water purification.
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h Gesellschaft mit beschrankter Haftung. Process for separation
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Julich Gesellschaft mit beschrankter Haftung; and Schoeller,
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brane. 4,699,637, 10-13-87, Cl. 55-158.000.
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75-53.000.
Medical Products, Inc.: *See—*
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ndustrial Corporation: *See—*
ng, Minghaw, 4,697,701, Cl. 206-316.000.
Container Corporation: *See—*
cClure, Jack A., 4,676,428, Cl. 229-16.00R.
Steel Company: *See—*
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Daniel, Jr., 4,667,715, Cl. 164-453.000.
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4,666,515, Cl. 420-85.000.
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4,697,697, Cl. 206-5.100.
Charles S. Golf ball carrier. 4,678,108, 7-7-87, Cl. 224-274.000.
Scott; and Enright, Mitchell K., to Melles Griot, Irvine Com-
. Vibration damped apparatus. 4,706,788, 11-17-87, Cl.
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Inman, Stephen L.: *See—*
Rusch, Randy A.; Kittle, Douglas A.; Ulfers, Bernhard G.; and Inman, Stephen L., 4,633,572, Cl. 29-576.00B.
Inmarco AG: *See—*
Hartnig, Heinz, 4,667,690, Cl. 134-62.000.
Inmos Corporation: *See—*
Allan, James D., 4,656,612, Cl. 365-203.000.
Allan, James D., 4,698,526, Cl. 307-475.000.
Bourassa, Ronald R., 4,658,378, Cl. 365-154.000.
Bourassa, Ronald R.; and Butler, Douglas B., 4,679,170, Cl. 365-154.000.
Hardee, Kim C.; and Griffus, Mike J., 4,660,178, Cl. 365-189.000.
Hardee, Kim C.; Khan, Anwar U.; McEuen, Steven D.; and Wicker, David J., Jr., 4,680,762, Cl. 371-28.000.
Heath, Barbara A., 4,686,000, Cl. 156-643.000.
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Edwards, Jonathan; Waller, David L.; and May, Michael D., 4,680,698, Cl. 364-200.000.
May, Michael D., 4,692,861, Cl. 364-200.000.
May, Michael D., 4,704,678, Cl. 364-200.000.
Talbot, Gerald R., 4,689,581, Cl. 331-1.00A.
Waller, David L., 4,672,581, Cl. 365-200.000.
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Innami, Tatsuo; Koizumi, Katuo; Imahashi, Toshiaki; and Matsumoto, Kihachiro, to Hitachi Koki Company, Ltd. Portable motor-driven cutter. 4,669,190, 6-2-87, Cl. 30-273.000.
Innami, Yasutaka: *See—*
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Innerspace Corporation: *See—*
Gongwer, Calvin A., 4,672,807, Cl. 60-222.000.
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Innes, James G.; and Hofer, Ferdinand. Airflow enhancement for sailboat headsails. 4,646,671, 3-3-87, Cl. 114-103.000.
Innes, Robert A., to Alcan International Limited. Apparatus and method for coating elongated strip articles. 4,675,230, 6-23-87, Cl. 427-280.000.
Innes, Robert S.; and Pagowski, Stefan, to Canadian Bird Equipment Limited. Poultry transfer machine. 4,660,256, 4-28-87, Cl. 17-52.000.
Innes, Robert S.: *See—*
McGuire, Bernie; Innes, Robert S.; and Pagowski, Stefan, 4,709,448, Cl. 17-11.000.
Innings Telecom Inc.: *See—*
Cheung, Edward H., 4,694,483, Cl. 379-34.000.
Innis, Pamela B. Flower holder jewelry article. 4,712,389, 12-15-87, Cl. 63-1.00R.
Innofinance Altalanos Innovacios Penzintezet: *See—*
Barta, Gyorgy; and Aszlanyi, Jozsef, 4,634,455, Cl. 55-32.000.
Keri, Tibor; and Kristof, Janosne , 4,702,915, Cl. 424-195.100.
Innotech Energy Corporation: *See—*
Curlett, Harry B.; and Raulias, George M., 4,676,563, Cl. 439-194.000.
Curlett, Harry B., 4,683,944, Cl. 166-65.100.
Innothera: *See—*
Robba, Max F.; and Aurousseau, Michel E., 4,673,675, Cl. 514-252.000.
Innova/Pure Water Inc.: *See—*
Nohren, John E., Jr.; and Downes, Richard T., 4,695,379, Cl. 210-282.000.
Innova Wiener Innovationsgesellschaft M.B.H.: *See—*
Schrems, Emil, 4,659,347, Cl. 55-186.000.
Innovacios Alap Kozponti Valto Es Hitelbank RT.: *See—*
Gulyas, Tamas; Horvath, Aniko; Keri, Gyorgy; Nikolics, Karoly; Szoke, Balazs; and Teplan, Istvan, 4,647,553, Cl. 514-15.000.
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Elstein, Rick A.; Faret, Svein; and Gazzo, John J., 4,702,475, Cl. 273-1.0GC.
Innovation Industries, Inc.: *See—*
Wright, Mark W., 4,683,990, Cl. 187-134.000.
Innovative Concepts Europe B.V.: *See—*
Ros, Johannes F., 4,713,951, Cl. 70-456.00R.
Innovative Concepts, Inc.: *See—*
Long, Jerry M.; and Womack, James A., 4,641,897, Cl. 312-183.000.
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Kuhnel, Donald S.; and Ottenstein, Sidney A., 4,682,084, Cl. 315-307.000.
Kuhnel, Donald S.; and Ottenstein, Sidney A., 4,686,428, Cl. 315-307.000.
Innovative Hearing Corporation: *See—*
Schlaegel, Norman, 4,652,414, Cl. 264-154.000.
Innovative Research and Development Co.: *See—*
Palmer, Thomas M., 4,690,384, Cl. 256-47.000.
Innovative Surgical Products, Inc.: *See—*
Wright, George M.; and Blake, Larry W., 4,702,733, Cl. 604-34.000.
Innovator Mernok Kisszovetkezet: *See—*
Gyorgy, Makara, 4,691,472, Cl. 47-58.000.
Innovus: *See—*
Bosley, Robert W.; Kirshman, Samson; LeMay, Dan B.; and Renken, Wayne G., 4,690,371, Cl. 251-65.000.
Renken, Wayne G.; Heigel, Douglas W.; and Payne, Ronald G., 4,647,133, Cl. 339-97.00R.
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  Galletti, Cesare, 4,668,119, Cl. 403-342.000.
Ino, Hiromitsu: *See—*
  Chiba, Kiyoshi; Ino, Hiromitsu; and Tokumitsu, Kazuto, 4,707,198, Cl. 148-304.000.
Ino, Hiroshi: *See—*
  Nagasaka, Hiroyasu; Kamidaira, Kunio; Ino, Hiroshi; and Utsuno, Mitsuo, 4,636,093, Cl. 374-186.000.
Ino, Kazuhide: *See—*
  Obayashi, Tsutomo; Watanabe, Shinobu; and Ino, Kazuhide, 4,696,830, Cl. 427-41.000.
  Obayashi, Tsutomu; Watanabe, Shinobu; and Ino, Kazuhide, 4,678,681, Cl. 427-38.000.
  Obayashi, Tsutomu; Ino, Kazuhide; Hiraoka, Yoshiji; and Baba, Saburo, 4,686,135, Cl. 428-265.000.
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Ino, Toshio; Maenosono, Tsukasa; Yoshida, Kazuo; Terasaki, Masanori; Kuriwaki, Tetsusho; Koga, Tadao; and Hirado, Miharu, to Daiichi Koshuha Kogyo Kabushiki Kaisha; and Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Induction heating method and apparatus for relieving residual stress in welded joint between main and branch pipes. 4,694,131, 9-15-87, Cl. 219-10.410.
Ino, Yoichi; and Kosuge, Kazuo, to Anelva Corporation. Vacuum gauge. 4,652,752, 3-24-87, Cl. 250-281.000.
Ino, Yoichi, to Anelva Corporation. Apparatus comprising a double-collector electron multiplier for counting the number of charged particles. 4,691,160, 9-1-87, Cl. 324-71.300.
Ino, Yoichi. and Morisako, Isamu, to Anelva Corporation. Mass spectrometer of a quadrupole electrode type comprising a divided electrode. 4,700,069, 10-13-87, Cl. 250-292.000.
Inoguchi, Kenichi; Iwakura, Yoichi; and Umehara, Jun, to Aisan Kogyo Kabushiki Kaisha; and Daihatsu Motor Co., Ltd. Warming-up system of a car engine. 4,644,919, 2-24-87, Cl. 123-438.000.
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Inoguchi, Toshio: *See—*
  Higashigaki, Yoshiyuki; Yoshimoto, Yoshikazu; Suzuki, Tomonari; Nakajima, Shigeo; and Inoguchi, Toshio, 4,714,639, Cl. 428-36.000.
Inoh, Isamu, to Honda Giken Kogyo Kabushiki Kaisha. Striker means for automotive door latch assembly. 4,707,007, 11-17-87, Cl. 292-341.160.
Inoh, Isamu: *See—*
  Midorikawa, Masashi; and Inoh, Isamu, 4,712,891, Cl. 350-604.000.
Inohara, Kazumi: *See—*
  Sakata, Isao; Nakajima, Susumu; Koshimuzi, Koichi; Samejima, Natsuki; Inohara, Kazumi; and Takata, Hiroyuki, 4,709,022, Cl. 540-145.000.
Inoi, Takeshi; Akabane, Toshiaki; Kurokawa, Yasuhiro; and Matsuoka, Shingo, to Shinnenryoyu Kaihatsugijutsu Kenkyukumiai. Process for pretreating biomasses in advance of their enzymatic treatment. 4,642,287, 2-10-87, Cl. 435-99.000.
Inoko, Kenji, to AB Tetra Pak. Accumulating commodity conveyor. 4,679,685, 7-14-87, Cl. 198-461.000.
Inokuchi, Hiroo; Saito, Gunji; Seki, Kazuhiko; and Mori, Takehiko, to Ajinomoto Co., Inc. Tetra-substituted fulvalene derivatives. 4,691,028, 9-1-87, Cl. 549-36.000.
Inokuchi, Kiyoshi; Sugimachi, Keizo; Shirakami, Toshiharu; Kai, Hidenobu; Kawai, Yoshio, and Hotta, Tetsuya, to Kureha Kagaku Kogyo Kabushiki Kaisha. Device for hyperthermia. 4,676,258, 6-30-87, Cl. 128-804.000.
Inokuchi, Kiyoshi: *See—*
  Sogawa, Akira; Inokuchi, Kiyoshi; Sugimachi, Keizo; Kai, Hidenobu; Hotta, Tetsuya; and Kawai, Yoshio, 4,662,383, Cl. 128-784.000.
Inokuchi, Toshiyuki, to Ricoh Company, Ltd. Hot cathode fluorescent tube illumination system. 4,660,967, 4-28-87, Cl. 355-67.000.
Inokuchi, Toshiyuki, to Ricoh Company, Ltd. Anamorphic focusing system. 4,678,321, 7-7-87, Cl. 355-52.000.
Inokuchi, Toshiyuki, to Ricoh Company, Ltd. Image forming optical apparatus. 4,679,902, 7-14-87, Cl. 350-167.000.
Inokuchi, Yukio; Ikeda, Shigeko; and Ito, Yoh, to Kawasaki Steel Corporation. Process for producing a grain oriented silicon steel sheet excellent in surface properties and magnetic characteristics. 4,702,780, 10-27-87, Cl. 148-111.000.
Inokuma, Hiroyuki: *See—*
  Mine, Kiyomitsu; Kobayashi, Yayoi; Kawaguchi, Yasushi; and Inokuma, Hiroyuki, 4,698,280, Cl. 428-425.900.
Inokuti, Yukio; Ikeda, Shigeko; Funahashi, Toshihiko; and Ito, Yo, to Kawasaki Steel Corporation. Substrate for print circuit board, a print circuit board, and method of manufacturing the same. 4,690,855, 9-1-87, Cl. 428-209.000.
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Inomata, Fumio; and Iwadate, Tooru, to Honda Giken Kogyo Kabushiki Kaisha. Cooling structure for an engine in a straddled type vehicle. 4,687,069, 8-18-87, Cl. 180-68.200.
Inomata, Kenichi, to Diesel Kiki Co., Ltd. Vane compressor provided with endless camming surface minimizing torque fluctuation. 4,712,987, 12-15-87, Cl. 418-150.000.
Inomata, Koichiro: *See—*
  Mizoguchi, Tetsuhiko; Inomata, Koichiro; Higuchi, Toru; and Sakai, Isao, 4,664,724, Cl. 148-302.000.
Inomata, Masaichi: *See—*
  Makabe, Eiichi; Uesugi, Mitsuaki; Inomata, Masaichi; Maruyama, Kyusuke; Iwai, Kenji; and Sano, Kazuo, 4,716,459, C 358-106.000.
Inomata, Noriyuki: *See—*
  Urakawa, Shigeki; and Inomata, Noriyuki, 4,684,355, C 446-464.000.
Inomata, Tamotsu: *See—*
  Kuze, Shuichi; Inomata, Tamotsu; Muramoto, Setsuo; and Ikeda, Hisayuki, 4,676,897, Cl. 210-198.200.
Inomata, Yoshihisa: *See—*
  Shimizu, Isoo; Matsumura, Yasuo; and Inomata, Yoshihisa, 4,659,840, Cl. 548-549.000.
  Shimizu, Isoo; Matsumura, Yasuo; and Inomata, Yoshihisa, 4,709,089, Cl. 562-494.000.
Inomoto, Kazuko, legal representative: *See—*
  Imao, Shoji; Nakamoto, Hideo; Osaka, Norihisa; Takesue, Masatoshi; Kodama, Hitoshi; Suzuki, Kinuko; and Inomoto, Masataka, deceased, 4,704,328, Cl. 428-324.000.
Inomoto, Masataka, deceased: *See—*
  Imao, Shoji; Nakamoto, Hideo; Osaka, Norihisa; Takesue, Masatoshi; Kodama, Hitoshi; Suzuki, Kinuko; and Inomoto, Masataka, deceased, 4,704,328, Cl. 428-324.000.
Inoo, Eiji: *See—*
  Watanabe, Kanji; Mizoe, Mikio; and Inoo, Eiji, 4,643,929, C 428-36.000.
Inoo, Hiroshi: *See—*
  Amagasa, Nobutada; Takatani, Ryoji; Inoo, Hiroshi; Suzuki, Kazuchi; and Kiriyama, Mitsuo, 4,646,131, Cl. 357-79.000.
Inose, Hiroshi: *See—*
  Iizuka, Nobuyuki; Hisano, Katsukuni; Wada, Katsuo; Kunihiro, Masashi; Hirose, Fumiyuki; Ishibashi, Yoji; Sato, Isao; Ara Osamu; Inose, Hiroshi; and Sakuda, Osamu, 4,677,822, C 60-39.230.
  Iizuka, Nobuyuki; Hisano, Katsukuni; Oshima, Ryoichiro; Wada, Katsuo; Hirose, Fumiyuki; Kuroda, Michio; Uchiyama, Yoshihiro; Ishibashi, Yoji; Sato, Isao; and Inose, Hiroshi, 4,683,71 Cl. 60-39.060.
Inose, Jun: *See—*
  Hosaka, Shunichi; Kurabayashi, Hiroyuki; and Inose, Jun, 4,668,602, Cl. 430-207.000.
Inose, Shigeru: *See—*
  Sato, Ichiya; Yoneyama, Takao; Tanabe, Masanori; Kawakam Kanji; Okada, Hisao; Sasaki, Soji; Inose, Shigeru; Suto, Mare and Uzuhashi, Hideo, 4,665,282, Cl. 178-18.000.
Inou, Kiyoharu; Matsumura, Hideaki; and Saito, Hitoshi, to Yokogawa Hokushin Electric Corporation. DC/DC converter. 4,680,68 7-14-87, Cl. 363-21.000.
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Inoue, Akihisa: *See—*
  Masumoto, Tsuyoshi; Inoue, Akihisa; and Tomioka, Hiroyuki 4,642,145, Cl. 148-336.000.
  Masumoto, Tsuyoshi; Inoue, Akihisa; Oka, Tetsuo; Ishii, Masam Motoyama, Hiroshi; and Yabuno, Ryohei, 4,655,079, C 73-295.000.
  Masumoto, Tsuyoshi; Inoue, Akihisa; and Tomioka, Hiroyuki 4,655,857, Cl. 148-423.000.
  Miyagi, Tokuya; Inoue, Akihisa; Hamada, Katushi; Fujimori, Shoichi, and Hori, Yoshihiro, 4,663,041, Cl. 210-493.200.
Inoue, Akio; and Tanabe, Tsuneaki, to Asahi Kasei Kogyo Kabushiki Kaisha. Acrylonitrile polymer film and process for preparing same. 4,683,261, 7-28-87, Cl. 524-566.000.
Inoue, Akira; Nomura, Shinichi; and Hanami, Osamu, to Seiko Seiki Kabushiki Kaisha. Stepping motor control apparatus. 4,663,408 7-28-87, Cl. 318-696.000.
Inoue, Akira: *See—*
  Kato, Yushi; Suzuki, Shoichi; and Inoue, Akira, 4,652,221, Cl 417-500.000.
Inoue, Akito. Diaphragm-electrode system for electrocoating 4,711,709, 12-8-87, Cl. 204-282.000.
Inoue, Atsuo; Miyamoto, Kazuhiro; Hisada, Nobuo; and Okinaga, Nobuyuki, to Nippon Kayaku Kabushiki Kaisha. Water-in-oil type emulsion explosives. 4,698,105, 10-6-87, Cl. 149-2.000.
Inoue, Atsushi; Kuroda, Yuji; and Tamura, Sadahiro. Oscillator with resonator having a switched capacitor for frequency changing 4,694,262, 9-15-87, Cl. 331-96.000.
Inoue, Eiichi; Shimizu, Isamu; and Komatsu, Toshiyuki, to Canon Kabushiki Kaisha. Image forming member for electrophotography. 4,673,628, 6-16-87, Cl. 430-58.000.
Inoue, Eiichi; Shimizu, Isamu; and Komatsu, Toshiyuki, to Canon Kabushiki Kaisha. Image forming member for electrophotography. 4,701,394, 10-20-87, Cl. 430-57.000.
Inoue, Eiji: *See—*
  Komeya, Seiji; Yamana, Takahiro; and Inoue, Eiji, 4,660,881, Cl 296-37.900.
Inoue, Fumio; Eto, Masahiro, Shimaoka, Shoei; and Sakai, Noboru, to Hitachi, Ltd. Scanning speed modulating apparatus for televisio receiver. 4,641,195, 2-3-87, Cl. 358-242.000.

noue, Fumio; Katsuhara, Yutaka; and Okazaki, Koshi, to Central Glass Company, Limited. Process of preparing metachlorobenzotrifluoride. 4,691,066, 9-1-87, Cl. 570-144.000.

noue, Hajime: *See—*
- Okada, Hiroshi; Takahashi, Takao; and Inoue, Hajime, 4,716,476, Cl. 360-66.000.
- Ueno, Tatsuaki; and Inoue, Hajime, 4,691,217, Cl. 357-23.130.

noue, Haruhiko: *See—*
- Nakashima, Toru; Inoue, Haruhiko; and Furuta, Sigeki, 4,700,177, Cl. 340-388.000.

noue, Haruo: *See—*
- Hayashi, Mikio; and Inoue, Haruo, 4,704,041, Cl. 400-124.000.

noue, Hideaki; Katayose, Shinji; Takei, Akira; and Oka, Takashi, to Nissan Motor Company, Limited. Apparatus for throttle valve control. 4,660,520, 4-28-87, Cl. 123-399.000.

noue, Hideaki: *See—*
- Asano, Hiroyuki; Katayose, Shinji; Inoue, Hideaki; Takei, Akira; and Tamura, Minoru, 4,649,880, Cl. 123-399.000.

noue, Hidefumi; Gotoh, Yuzoh; and Ishihara, Kimio, to Jidosha Kiki Co., Ltd. Booster ratio controller for liquid pressure booster. 4,706,546, 11-17-87, Cl. 91-370.000.

noue, Hidehiko; Kondo, Toshio; and Isomura, Shigenori, to Nippondenso Co., Ltd. Start and termination timing control of fuel injection. 4,646,698, 3-3-87, Cl. 123-478.000.

noue, Hidekimi: *See—*
- Ozaki, Haruhiko; Yamada, Tadatoshi; Machida, Kunio; Ohno, Kiyoshi; Shimazaki, Hirato; Inoue, Hidekimi; and Uji, Ryohei, 4,713,686, Cl. 358-107.000.

noue, Hidemasa; and Taniguchi, Hisashi, to Trinity Industrial Corporation. Method of operating an air conditioner. 4,649,710, 3-17-87, Cl. 62-92.000.

noue, Hidemasa: *See—*
- Osawa, Michiaki; Omori, Hidetoshi; and Inoue, Hidemasa, 4,653,387, Cl. 98-115.200.

noue, Hirokatsu; and Shimizu, Chuji, to Fukuda Denshi Co., Ltd. Electrode securement sheet. 4,653,502, 3-31-87, Cl. 128-640.000.

noue, Hirokatsu: *See—*
- Osada, Soichi; Inoue, Hirokatsu; Shimizu, Chuji; Onodera, Yasuaki; Kobayashi, Ken-ichi; Kozima, Kazuo; and Shioda, Shigeyoshi, 4,653,500, Cl. 128-639.000.

noue, Hiromichi; Saito, Shinichi; Terashima, Kanetsugu; Inukai, Takashi; and Furukawa, Kenji, to Chisso Corporation. Liquid crystalline biphenyl derivatives and mixtures thereof. 4,676,925, 6-30-87, Cl. 252-299.650.

noue, Hiromichi; Saito, Shinichi; Miyazawa, Kazutoshi; Inukai, Takashi; and Terashima, Kanetsugu, to Chisso Corporation. Novel optically active compound and liquid crystal composition containing same. 4,689,176, 8-25-87, Cl. 252-299.650.

noue, Hiromichi; Fukui, Masahiro; Goto, Yasuyuki; and Tokita, Susumu, to Chisso Corporation. Liquid-crystalline compounds. 4,704,228, 11-3-87, Cl. 252-299.630.

noue, Hiromichi: *See—*
- Saito, Shinichi; Inoue, Hiromichi; Terashima, Kanetsugu; Inukai, Takashi; and Furukawa, Kenji, 4,647,398, Cl. 252-299.650.
- Saito, Shinichi; Inoue, Hiromichi; Terashima, Kanetsugu; Inukai, Takashi; and Furukawa, Kenji, 4,657,695, Cl. 252-299.610.
- Saito, Shinichi; Inoue, Hiromichi; Miyazawa, Kazutoshi; Inukai, Takashi; and Terashima, Kanetsugu, 4,668,427, Cl. 252-299.660.

noue, Hiroshi, to Canon Kabushiki Kaisha. Liquid crystal panel having an organic indium and/or organic zirconium orientation film. 4,643,531, 2-17-87, Cl. 350-341.000.

noue, Hiroshi; and Sasaki, Yoshio, to Kansai Paint Co., Ltd. Thermosetting alkyd resin coating composition. 4,649,175, 3-10-87, Cl. 525-38.000.

noue, Hiroshi; Tsuge, Akihiko; and Komeya, Katsutoshi, to Kabushiki Kaisha Toshiba. Process for preparing aluminum nitride powder. 4,680,278, 7-14-87, Cl. 501-98.000.

noue, Hiroshi; Miyazaki, Makoto; Isoi, Masaaki; and Yoda, Makoto, to Toa Nenryo Kogyo Kabushiki Kaisha. Modified elastomer and laminate thereof. 4,684,578, 8-4-87, Cl. 428-462.000.

noue, Hiroshi, to Canon Kabushiki Kaisha. Liquid crystal panel having uniaxially-stretched substrates. 4,707,079, 11-17-87, Cl. 350-334.000.

noue, Hiroshi: *See—*
- Amatsu, Masashi; Yanase, Takeyasu; Inoue, Hiroshi; and Nakagawa, Yusuke, 4,698,786, Cl. 365-39.000.
- Saito, Makoto; Inoue, Hiroshi; and Yamamoto, Noboru, 4,704,196, Cl. 204-130.000.
- Tominari, Kenichi; Inoue, Hiroshi; and Sakai, Masayuki, 4,668,752, Cl. 526-348.200.

noue, Hiroshige; Fukushima, Kenichi; and Nishiguchi, Ikuzo, to Yamamoto Chemical Industrial Co., Ltd.; and Osaka Municipal Government. Halo-containing 3-methylflavone-8-carboxylic acid derivatives. 4,634,768, 1-6-87, Cl. 544-151.000.

noue, Ichiro: *See—*
- Hamano, Masanori; Takeuchi, Siro; and Inoue, Ichiro, 4,678,640, Cl. 422-56.000.

noue, Ichizo; Oine, Toyonari; Yamada, Yoshihisa; Ishida, Ryuichi; and Ochiai, Takashi, to Tanabe Seiyaku Co., Ltd. Quinazolinone derivative. 4,714,702, 12-22-87, Cl. 514-259.000.

noue, Ikuo: *See—*
- Hirose, Tokuzo; and Inoue, Ikuo, 4,641,118, Cl. 335-282.000.

noue, Isao, to Daiya Seiko Kabushiki-Kaisha. Adjustable wrench. 4,706,528, 11-17-87, Cl. 81-179.000.

noue, Isao. Ratchet handle. 4,711,145, 12-8-87, Cl. 81-177.100.

noue-Japax Research Inc: *See—*
- Inoue, Kiyoshi, 4,686,343, Cl. 219-69.00W.

Inoue-Japax Research Incorporated: *See—*
- Inoue, Kiyoshi, 4,639,378, Cl. 427-35.000.
- Inoue, Kiyoshi, 4,641,251, Cl. 364-513.000.
- Inoue, Kiyoshi, 4,642,444, Cl. 219-69.00D.
- Inoue, Kiyoshi, 4,645,048, Cl. 192-0.034.
- Inoue, Kiyoshi, 4,646,088, Cl. 340-870.310.
- Inoue, Kiyoshi, 4,649,255, Cl. 219-69.00M.
- Inoue, Kiyoshi, 4,659,894, Cl. 219-69.00P.
- Inoue, Kiyoshi, 4,661,674, Cl. 219-69.00C.
- Inoue, Kiyoshi, 4,672,161, Cl. 219-69.00P.
- Inoue, Kiyoshi, 4,673,787, Cl. 219-69.00W.
- Inoue, Kiyoshi, 4,674,235, Cl. 51-281.00R.
- Inoue, Kiyoshi, 4,678,420, Cl. 425-144.000.
- Inoue, Kiyoshi, 4,678,976, Cl. 318-577.000.
- Inoue, Kiyoshi, 4,689,467, Cl. 219-121.00L.
- Inoue, Kiyoshi; and Kaneko, Hideo, 4,695,333, Cl. 148-306.000.
- Miyano, Kazuyoshi, 4,704,511, Cl. 219-69.00W.

Inoue, Jiro, to Murata Manufacturing Co., Ltd. Piezoelectric resonance component having an improved group delay time characteristic. 4,651,109, 3-17-87, Cl. 329-117.000.

Inoue, Jiro; and Kota, Masaharu, to Murata Manufacturing Co., Ltd. Ultrasonic transducer. 4,705,981, 11-10-87, Cl. 310-324.000.

Inoue, Jiro, to Murata Manufacturing Co., Ltd. Piezoelectric resonance component having an improved group delay time characteristic. 4,716,377, 12-29-87, Cl. 329-117.000.

Inoue, Junichi: *See—*
- Matsumura, Tsuneo; Mano, Tsuneo; Yamada, Junzo; and Inoue, Junichi, 4,694,428, Cl. 365-189.000.

Inoue, Kaname: *See—*
- Yokota, Tohru; Inoue, Kaname; Kitamura, Hajime; Isobe, Kenichi; Ichinohe, Shoji; and Yanagisawa, Takeji, 4,665,145, Cl. 526-279.000.

Inoue, Kaoru; Miyagawa, Hiroharu; Itoh, Masayoshi; Abe, Tomohiro; Koizumi, Kyogo; and Yanagawa, Noriyuki, to Mitsui Toatsu Chemicals, Inc. Process for disproportionating silanes. 4,667,048, 5-19-87, Cl. 556-469.000.

Inoue, Kazuhiko, to Teac Corporation. Rotary to linear converter employing a lead screw, for use in a flexible magnetic disk drive or the like. 4,658,163, 4-14-87, Cl. 310-80.000.

Inoue, Kazuhiko; Mitani, Tatsuro; and Kishita, Yoshihiro, to Kabushiki Kaisha Toshiba. GAAS semiconductor device. 4,695,869, 9-22-87, Cl. 357-71.000.

Inoue, Kazuhiko; Kawasaki, Tsutomu; and Ihana, Toshio, to Teac Corporation. Data transfer apparatus for use with a magnetic disk cartridge. 4,709,281, 11-24-87, Cl. 360-97.000.

Inoue, Kazuo: *See—*
- Shigetomi, Tsuyoshi; and Inoue, Kazuo, 4,647,194, Cl. 356-30.000.
- Yasuhara, Seishi; Hagiwara, Mitsuo; Inoue, Kazuo; Fujimori, Kyoichi; Sekiguchi, Akira; and Okada, Hiroshi, 4,638,782, Cl. 123-502.000.

Inoue, Kazuyuki: *See—*
- Yamaguchi, Kimiaki; Nitta, Masahiro; Inoue, Kazuyuki; Hirose, Teruo; and Toda, Yoshihiro, 4,659,891, Cl. 219-10.55D.

Inoue, Keizo; Nomura, Hiroaki; and Okutani, Tetsuya, to Takeda Chemical Industries, Inc. 2-alkanoyloxy-3-(N-octadecylcarbamoyloxy)propyl 2-trimethylaminoethyl phosphate. 4,675,430, 6-23-87, Cl. 558-172.000.

Inoue, Kenichi: *See—*
- Funahashi, Masaya; Miyata, Teruhisa; Inoue, Kenichi; Miyake, Akira; and Norimatsu, Kohji, 4,690,864, Cl. 428-336.000.
- Funahashi, Masaya; Miyata, Teruhisa; Inoue, Kenichi; and Miyake, Akira, 4,696,869, Cl. 428-695.000.

Inoue, Kenji: *See—*
- Takahashi, Satomi; Inoue, Kenji; Yanagida, Yoshifumi; Ohashi, Takehisa; and Watanabe, Kiyoshi, 4,716,235, Cl. 548-533.000.

Inoue, Kichiro: *See—*
- Enomoto, Hiroshi; Nomura, Tadatoshi; Aoyagi, Yoshiaki; Chokai, Shoichi; Fujita, Yukio; Kono, Tatsuhiko; Murase, Masao; Inoue, Kichiro; and Adachi, Masahiro, 4,711,898, Cl. 514-312.000.

Inoue, Kimio; Fukumizu, Shinichi; and Fusamoto, Akira, to Kabushiki Kaisha Kobe Seiko Sho. Single screw kneading extruder. 4,652,138, 3-24-87, Cl. 366-89.000.

Inoue, Kimio: *See—*
- Fukumizu, Shinnichi; Inoue, Kimio; and Kuriyama, Akimasa, 4,695,165, Cl. 366-90.000.
- Murai, Takaaki; Watanabe, Shoji; Inoue, Kimio; Isobe, Tomohisa; Nakashima, Naoki; Miho, Takuya; and Ikemoto, Yoshiyuki, 4,663,429, Cl. 528-355.000.

Inoue, Kiyoshi, to Inoue-Japax Research Incorporated. Auto-selective metal deposition on dielectric surfaces. 4,639,378, 1-27-87, Cl. 427-35.000.

Inoue, Kiyoshi, to Inoue-Japax Research Incorporated. Robot. 4,641,251, 2-3-87, Cl. 364-513.000.

Inoue, Kiyoshi, to Inoue-Japax Research Incorporated. Electrical machining fluid and method utilizing the same. 4,642,444, 2-10-87, Cl. 219-69.00D.

Inoue, Kiyoshi, to Inoue Japax Research Incorporated. Drive mechanism for machines. 4,645,048, 2-24-87, Cl. 192-0.034.

Inoue, Kiyoshi, to Inoue-Japax Research Incorporated. Magnetic encoder system. 4,646,088, 2-24-87, Cl. 340-870.310.

Inoue, Kiyoshi, to Inoue-Japax Research Incorporated. EDM using a partition member to separate hydrocarbon and water liquids in the work tank. 4,649,255, 3-10-87, Cl. 219-69.00M.

Inoue, Kiyoshi, to Inoue-Japax Research Incorporated. Capacitor-type HF power supply for electrical machining. 4,659,894, 4-21-87, Cl. 219-69.00P.

Inoue, Kiyoshi, to Inoue-Japax Research Incorporated. Minimum-impedance conductor assembly for EDM. 4,661,674, 4-28-87, Cl. 219-69.00C.

Inoue, Kiyoshi, to Inoue-Japax Research Incorporated. EDM method and apparatus with trapezoidized short-duration pulses. 4,672,161, 6-9-87, Cl. 219-69.00P.

Inoue, Kiyoshi, to Inoue-Japax Research Incorporated. Electroerosion method of wire-cutting a desired contour in a workpiece. 4,673,787, 6-16-87, Cl. 219-69.00W.

Inoue, Kiyoshi, to Inoue-Japax Research Incorporated. Grinding wheel crack detector and method. 4,674,235, 6-23-87, Cl. 51-281.00R.

Inoue, Kiyoshi, to Inoue-Japax Research Incorporated. Injection molding machine with auxiliary packing means. 4,678,420, 7-7-87, Cl. 425-144.000.

Inoue, Kiyoshi, to Inoue-Japax Research Inc. Path-controlled machining method. 4,678,976, 7-7-87, Cl. 318-577.000.

Inoue, Kiyoshi; and Nose, Yoshiharu, to Nippon Oil Co., Ltd. Method for producing alkaline earth metal borate dispersions. 4,683,126, 7-28-87, Cl. 423-280.000.

Inoue, Kiyoshi, to Inoue-Japax Research Inc. Method of and apparatus for resetting a wire electrode in an operating setup on an electroerosion machine. 4,686,343, 8-11-87, Cl. 219-69.00W.

Inoue, Kiyoshi, to Inoue-Japax Research Incorporated. Laser machining apparatus. 4,689,467, 8-25-87, Cl. 219-121.00L.

Inoue, Kiyoshi; and Kaneko, Hideo, to Inoue-Japax Research Incorporated. Iron-chromium-base spinodal decomposition-type magnetic (hard or semi-hard) alloy. 4,695,333, 9-22-87, Cl. 148-306.000.

Inoue, Kiyoshi: *See—*
Nakada, Yoshiyuki; Asada, Masao; and Inoue, Kiyoshi, 4,699,662, Cl. 106-287.130.

Inoue, Koi, to Daiwa Seiko Inc. Tube for fishing rod. 4,653,216, 3-31-87, Cl. 43-18.500.

Inoue, Koi; Go, Youki; and Naeki, Yoshihiro, to Daiwa Seiko Inc. Fishingline guide for fishing rod. 4,682,439, 7-28-87, Cl. 43-24.000.

Inoue, Koichi: *See—*
Takebayashi, Hiroaki; Harumi, Fujio; Nakamura, Kiyoshi; and Inoue, Koichi, 4,634,300, Cl. 384-548.000.

Inoue, Kotaro: *See—*
Amano, Ken; and Inoue, Kotaro, 4,654,193, Cl. 376-436.000.
Kawashima, Katsuyuki; and Inoue, Kotaro, 4,655,989, Cl. 376-173.000.

Inoue, Kouichi: *See—*
Doura, Fumihiro; Asada, Kazuo; and Inoue, Kouichi, 4,666,981, Cl. 525-100.000.

Inoue, Makoto: *See—*
Nakagawa, Fumio; Nakamura, Kazuyoshi; Shibao, Hitoshi; Yoshimura, Hiroshi; Taki, Koichi; Inoue, Makoto; Hayashi, Eiji; Dejima, Fusao; and Kohara, Yuritoshi, 4,690,638, Cl. 432-81.000.
Nakamura, Shizuo; Inoue, Makoto; and Tsuda, Yoshiaki, 4,642,355, Cl. 548-533.000.

Inoue, Mamoru: *See—*
Yamanaka, Kazuo; Nagano, Hiroo; Minami, Takao; Okada, Yaautaka; Inoue, Mamoru; Susukida, Hiroshi; Onimura, Kichiro; Yonezawa, Toshio; Sasaguri, Nobuya; Kawaguchi, Katsuji; and Kusakabe, Takaya, 4,714,501, Cl. 148-13.000.
Yonezawa, Toshio; Sasaguri, Nobuya; Onimura, Kichiro; Susukida, Hiroshi; Kawaguchi, Katsuji; Nagano, Hiroo; Minami, Takao; Yamanaka, Kazuo; Okada, Yasutaka; and Inoue, Mamoru, 4,710,237, Cl. 148-13.000.

Inoue, Manabu; Fujino, Akihiko; and Nakai, Masaaki, to Minolta Camera Co., Ltd. Camera exposure calculating device. 4,653,893, 3-31-87, Cl. 354-443.000.

Inoue, Manabu; Fujino, Akihiko; Hirano, Masayasu; Nakai, Masaaki; and Yoshida, Fumio, to Minolta Camera Kabushiki Kaisha. Camera having motor-driven film wind and rewind system. 4,707,104, 11-17-87, Cl. 354-412.000.

Inoue, Manabu: *See—*
Fujino, Akihiko; Inoue, Manabu; Nakai, Masaaki; and Sekida, Minoru, 4,690,530, Cl. 354-21.000.

Inoue, Masahiro: *See—*
Honda, Yoshiyuki; Esaki, Mitsunobu; Minagawa, Yoshiji; Uemera, Kazuho; and Inoue, Masahiro, 4,665,544, Cl. 379-104.000.

Inoue, Masami: *See—*
Fujioka, Hirofumi; and Inoue, Masami, 4,690,957, Cl. 522-31.000.

Inoue, Masaru; and Ashiba, Masahiro, to Jidosha Denki Kogyo Kabushiki Kaisha; and Tokico Ltd. Hydraulic damper. 4,645,042, 2-24-87, Cl. 188-319.000.

Inoue, Masaru; Ida, Masao; and Kohara, Takao, to Jidosha Denki Kogyo Kabushiki Kaisha; and Tokico Ltd. Rotary actuator. 4,665,764, 5-19-87, Cl. 74-436.000.

Inoue, Masaru; Ida, Masao; and Kohara, Takao, to Tokico Ltd.; and Jidosha Denki Kogyo Kabushiki Kaisha. Rotary actuator. 4,686,863, 8-18-87, Cl. 74-425.000.

Inoue, Masataka: *See—*
Yanazawa, Tadaaki; Tanaka, Teruaki; Noda, Akio; Takeda, Ryo; and Inoue, Masataka, 4,685,320, Cl. 72-250.000.

Inoue, Masatoshi: *See—*
Yanagiuchi, Noboru; Adachi, Shigeo; Inoue, Masatoshi; Takata, Hiroshi; and Matsuda, Toyoshi, 4,637,270, Cl. 74-336.500.

Inoue, Masatsugu; and Yamazaki, Hidetoshi, to Kabushiki Kaisha Toshiba. Color cathode ray tube. 4,677,339, 6-30-87, Cl. 313-402.000.

Inoue, Masatsugu; and Yamazaki, Hidetoshi, to Kabushiki Kaisha Toshiba. Color cathode ray tube having a non-spherical curved mask. 4,697,119, 9-29-87, Cl. 313-408.000.

Inoue, Masatsugu: *See—*
Yamazaki, Hidetoshi; and Inoue, Masatsugu, 4,700,104, Cl. 313-407.000.

Inoue, Masayoshi; Hirano, Kenichiro; and Tanihata, Ryoichi, to NEC Corporation. Key telephone system. 4,682,353, 7-21-87, Cl. 379-163.000.

Inoue, Masayuki: *See—*
Yamanaka, Masaaki; Inoue, Masayuki; and Asazuma, Harumitsu, 4,705,719, Cl. 428-323.000.

Inoue, Masuo: *See—*
Terano, Minoru; Yokoyama, Yasushi; Inoue, Masuo; and Miyoshi, Katsuyoshi, 4,640,906, Cl. 502-104.000.
Terano, Minoru; Soga, Hirokazu; Inoue, Masuo; and Miyoshi, Katsuyoshi, 4,686,200, Cl. 502-112.000.

Inoue, Michio; and Kawashima, Kazuto, to Mitsubishi Rayon Co., Ltd. Hollow-fiber filtering module and water purification device utilizing it. 4,636,307, 1-13-87, Cl. 210-188.000.

Inoue, Michio: *See—*
Yamamori, Hisayoshi; Inoue, Michio; Kawashima, Kazuto; and Tanaka, Hisao, 4,663,227, Cl. 428-315.700.
Yamamori, Hisayoshi; Inoue, Michio; Kawashima, Kazuto; and Tanaka, Hisao, 4,675,213, Cl. 427-244.000.

Inoue, Michitoshi: *See—*
Shimura, Takaki; Murakami, Keiichi; Igarashi, Yutaka; Shiba, Akira; Hayashi, Hajime; Miwa, Hirohide, Inoue, Michitoshi; and Matsumoto, Masayuki, 4,655,228, Cl. 128-660.000.

Inoue, Michiya; Obara, Haruki; and Izumiya, Shunzo, to Fanuc Ltd. Wire-cut, electric discharge machining power supply unit. 4,681,997, 7-21-87, Cl. 219-69.00C.

Inoue, Mitsuhiro: *See—*
Hasegawa, Hiroshi; and Inoue, Mitsuhiro, 4,713,284, Cl. 428-246.000.

Inoue MTP Kabushiki Kaisha: *See—*
Matsuda, Hiromichi, 4,680,150, Cl. 264-26.000.
Watanabe, Kenji; Kato, Hiroshi; and Onishi, Katsunori, 4,690,348, Cl. 242-66.000.

Inoue, Nanao: *See—*
Saito, Koichi; Fujimura, Yoshihiko; and Inoue, Nanao, 4,710,780, Cl. 346-1.100.

Inoue, Naohiko: *See—*
Ito, Ken; Inoue, Naohiko; and Kawabe, Taketosi, 4,679,809, Cl. 280-91.000.
Ito, Ken; and Inoue, Naohiko, 4,690,431, Cl. 280-771.000.

Inoue, Naomitsu: *See—*
Saeki, Yukio; Inoue, Naomitsu, and Tokunaga, Yukio, 4,694,028, Cl. 521-110.000.
Saeki, Yukio; Inoue, Naomitsu; and Tokunaga, Yukio, 4,698,370, Cl. 521-128.000.

Inoue, Naoyuki: *See—*
Hayashi, Yoshimasa; Minezaki, Yutaka; Ito, Yoji; Inoue, Naoyuki; and Hirano, Yoshinori, 4,700,664, Cl. 123-41.270.

Inoue, Noboru; and Miura, Yoshio, to Takasago Medical Industry Co., Ltd. Soluble suturing device for an intestine. 4,708,141, 11-24-87, Cl. 128-334.00R.

Inoue, Nobuaki; Inagaki, Yoshio; and Kameoka, Kimitaka, to Fuji Photo Film Co., Ltd. Silver halide photographic material and method for forming high contrast negative image using the same. 4,681,836, 7-21-87, Cl. 430-434.000.

Inoue, Nobuhiro, to Tachikawa Spring Co., Ltd. Top cover member fixing arrangement in a vehicle seat. 4,637,650, 1-20-87, Cl. 297-410.000.

Inoue, Nobuhiro: *See—*
Fushiya, Fusao; Hakamata, Nobuo; Abe, Hiroyuki, and Inoue, Nobuhiro, 4,638,700, Cl. 83-467.00R.

Inoue, Nobuo: *See—*
Hattori, Yoshihisa; and Inoue, Nobuo, 4,639,771, Cl. 358-80.000.

Inoue, Nori; Moriai, Yasuharu; Sakatani, Atushi; and Yoshida, Noriyuki, to Tokai Electric Wire Company, Limited; and Sumitomo Electric Industries, Ltd. Electrical junction box. 4,688,149, 8-18-87, Cl. 361-399.000.

Inoue, Norihiro; Tominaga, Shinji; Kashima, Masataka; and Nakamura, Ikushi, to Minolta Camera Kabushiki Kaisha. Electronic instrument which selectively receives different kinds of batteries. 4,645,325, 2-24-87, Cl. 354-484.000.

Inoue, Noriyuki, to Fuji Photo Film Co., Ltd. Silver salt diffusion transfer element comprising two silver halide layers. 4,654,297, 3-31-87, Cl. 430-509.000.

Inoue, Noriyuki, to Fuji Photo Film Co., Ltd. Silver salt diffusion transfer photographic material. 4,659,646, 4-21-87, Cl. 430-230.000.

Inoue, Noriyuki, to Fuji Photo Film Co., Ltd. Silver salt diffusion transfer photographic material comprising fine and coarse grain silver halide. 4,677,052, 6-30-87, Cl. 430-568.000.

Inoue, Osamu, to Victor Company of Japan, Ltd. Magnetic tape recording and reproducing apparatus with rotatable drum having inclined heads. 4,639,799, 1-27-87, Cl. 360-85.000.

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Funada, Fumiaki; Hamada, Hiroshi; and Inoue, Osamu, 4,680,505, Cl. 313-558.000.

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Kawazoe, Akio; and Inoue, Satoru, 4,701,635, Cl. 307-270.000.
Ozaki, Sei; Futamura, Shoji; Kojima, Masaru; and Inoue, Satoru, 4,687,433, Cl. 425-464.000.

Uematsu, Tamon; Inoue, Satoru; and Yamashita, Norihisa, 4,670,451, Cl. 514-375.000.
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Narisoko, Minoru; and Inoue, Satoshi, 4,708,067, Cl. 110-245.000.
oue, Seiji; and Takayasu, Hidekazu, to Sanshin Kogyo Kabushiki Kaisha. Fuel supplying system for internal combustion engine. 4,671,220, 6-9-87, Cl. 123-73.00A.
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oue, Shigeki: *See—*
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oue, Shinichi; Kishida, Hiroshi; and Oshima, Yasushi, to Yamato Scale Company, Limited. Product feeding device for combination weighing machine. 4,662,508, 5-5-87, Cl. 198-601.000.
oue, Shinji, to Texas Instruments Incorporated. Internal time-out circuit for CMOS dynamic RAM. 4,707,626, 11-17-87, Cl. 307-625.000.
oue, Shinsuke. Golf club. 4,697,813, 10-6-87, Cl. 273-167.00H.
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oue, Shohei; and Aida, Takuzo, to Kanegafuchi Chemical Industry Co., Ltd. Process for preparing polyalkylene oxide having narrow distribution of molecular weight. 4,654,417, 3-31-87, Cl. 528-416.000.
oue, Shohei; and Aida, Takuzo, to Hitachi Chemical Company Ltd. Process for producing block copolymer. 4,665,134, 5-12-87, Cl. 525-419.000.
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Hirano, Hirofumi; Nakamura, Masaaki; Hasumi, Hitoshi; Inoue, Shoichi; and Furukawa, Akiteru, 4,707,159, Cl. 400-639.100.
oue, Shosaku: *See—*
Goto, Shigeru; Asano, Masaru; Ishida, Matsuhiko; and Inoue, Shosaku, 4,681,207, Cl. 198-333.000.
oue, Shunichi: *See—*
Watanabe, Tadashi; and Inoue, Shunichi, 4,682,641, Cl. 157-13.000.
oue, Shunsaku. Golf ball. 4,706,958, 11-17-87, Cl. 273-213.000.
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Yamaguchi, Ikutoshi; Kashiwagi, Katsuhiko; Goto, Hideo; and Inoue, Susumu, 4,634,626, Cl. 428-312.400.
oue, Tadashi; Kuwabara, Tsumoru; and Yoshie, Kiyotaka, to Asahi Kasei Kogyo Kabushiki Kaisha. Composite hydrophilic membrane and method for manufacture thereof. 4,670,146, 6-2-87, Cl. 210-490.000.
oue, Tadashi; and Matsuura, Tosimi, to Omron Tateisi Electronics Co. Programmable controller. 4,703,414, 10-27-87, Cl. 364-147.000.
oue, Tadashi: *See—*
Aoyagi, Yoshiki; Suzuki, Masatoshi; Inoue, Tadashi; and Tsukakoshi, Kunio, 4,680,227, Cl. 428-331.000.
Hirai, Hitoshi; Homma, Yoshikatsu; and Inoue, Tadashi, 4,674,832, Cl. 350-96.210.
oue, Takao; Matsuo, Takahiro; and Nakamura, Youichi, to Matsushita Electric Industrial Co., Ltd. Method for forming light-shield coat on lenses. 4,643,911, 2-17-87, Cl. 427-54.100.
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Yoshinaka, Tadaaki; and Inoue, Takao, 4,714,954, Cl. 358-19.000.
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oue, Takashi, to Ricoh Company, Ltd. Block-divided driving of a thermal printhead. 4,639,741, 1-27-87, Cl. 346-76.0PH.
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oue, Takehisa: *See—*
Miwa, Kishio; Nagaoka, Yukiko; and Inoue, Takehisa, 4,698,453, Cl. 585-828.000.
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oue, Takemi: *See—*
Nishida, Hiroshi; and Inoue, Takemi, 4,677,872, Cl. 74-551.900.
Yamashita, Masanobu; Takada, Hiroshi; Inoue, Takemi; and Yamauchi, Suguru, 4,651,687, Cl. 123-182.000.
oue, Takeo: *See—*
Arai, Masatoshi; Inoue, Takeo; and Sato, Shinichi, 4,652,661, Cl. 549-214.000.
Inoue, Yoshio; Arai, Masatoshi; Inoue, Takeo; Yaginuma, Atsushi; and Tomizawa, Tetsuo, 4,675,365, Cl. 525-408.000.
Inoue, Yoshio; Arai, Masatoshi; and Inoue, Takeo, 4,695,603, Cl. 524-723.000.
Shirazawa, Takashi; and Inoue, Takeo, 4,665,305, Cl. 219-277.000.
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Akashi, Hiroyuki; Inoue, Takeshi; and Horie, Shoichi, 4,713,474, Cl. 560-66.000.
Magami, Masato; Saeki, Kazumi; Miura, Takanori; and Inoue, Takeshi, 4,695,649, Cl. 560-86.000.
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Inoue, Taro, to Kabushiki Kaisha Inoue Shoten. Iron for straightening curly hairs. 4,653,517, 3-31-87, Cl. 132-32.00R.
Inoue, Tatsuo, to NEC Corporation. Multilayer wiring substrate. 4,685,033, 8-4-87, Cl. 361-414.000.
Inoue, Teruhiko: *See—*
Yoshida, Hiroshi; and Inoue, Teruhiko, 4,675,412, Cl. 548-127.000.
Inoue, Tetsuo: *See—*
Konishi, Yuji; and Inoue, Tetsuo, 4,660,369, Cl. 57-281.000.
Inoue, Tokuta: *See—*
Kato, Kenji; Inoue, Tokuta; Nakanishi, Kiyoshi; and Matsushita, Soichi, 4,682,577, Cl. 123-492.000.
Matsumoto, Hisashi; Motogami, Yoshikazu; Miyahara, Masahiko; Inoue, Tokuta; Hasegawa, Kohichi; Aoki, Keiji; Ikeda, Shinji; Kawai, Mitsuo; Kobashi, Mamoru; Takata, Mamoru; Nagase, Masaomi; and Hoshiba, Hiroyuki, 4,665,740, Cl. 73-116.000.
Inoue, Tomohiro; Tsugei, Shinji; and Iguchi, Shigeki, to Sharp Kabushiki Kaisha. Schedule alarm device. 4,715,010, 12-22-87, Cl. 364-705.000.
Inoue, Tomohiro: *See—*
Hashimoto, Shintaro; Masuzawa, Sigeaki; Kunita, Hisao; Inoue, Tomohiro; and Nishimura, Kosuke, 4,707,794, Cl. 364-513.500.
Tsugei, Shinji; and Inoue, Tomohiro, 4,696,054, Cl. 455-89.000.
Inoue, Tomoyasu, to Kabushiki Kaisha Toshiba. Method of manufacturing a semiconductor device involving a capacitor. 4,656,054, 4-7-87, Cl. 427-81.000.
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Inoue, Toru: *See—*
Nagasawa, Kiyoshi; Inoue, Toru; and Kashiwazaki, Susumu, 4,712,050, Cl. 318-254.000.
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Inoue, Toshihide: *See—*
Nakamura, Kiyokazu; Kometani, Kiichi; and Inoue, Toshihide, 4,664,983, Cl. 428-458.000.
Inoue, Toshiyuki, to Nisshin Kohki Co., Ltd. Pen-type bar code reader. 4,682,016, 7-21-87, Cl. 235-462.000.
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Fujiwara, Kazuo; Torii, Yasushi; Kitahata, Koujiro; Inoue, Tsuyoshi; and Yokoyama, Tadamasa, deceased. 4,689,198, Cl. 420-47.000.
Inoue, Yasuhiro: *See—*
Nakasaki, Eiji; Shirashoji, Hisashi; Hoshikawa, Katsuyuki; Kamijo, Takao; Ikeda, Kazushige; Inoue, Yasuhiro; and Kato, Takeo, 4,640,329, Cl. 152-209.00R.
Inoue, Yasukazu: *See—*
Fukuzo, Yukio; and Inoue, Yasukazu, 4,692,642, Cl. 307-530.000.
Fukuzo, Yukio; and Inoue, Yasukazu, 4,695,980, Cl. 365-222.000.
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Inoue, Yasuo; Yonekubo, Ken; Yamagishi, Masaaki; and Endo, Itaru, to Olympus Optical Co., Ltd. Inverted-design optical microscope. 4,685,776, 8-11-87, Cl. 350-502.000.
Inoue, Yasuo; and Shinohara, Daizo, to Olympus Optical Co. Ltd. Photographing apparatus for microscope. 4,705,381, 11-10-87, Cl. 354-411.000.
Inoue, Yasuo: *See—*
Hirosaki, Yukihiro; Koike, Seiji; Hamada, Motonobu; Ohhata, Takahiko; Inoue, Yasuo; Karibe, Haruyuki; and Hama, Hideki, 4,671,844, Cl. 156-542.000.
Kitagawa, Hisao; and Inoue, Yasuo, 4,643,550, Cl. 354-79.000.
Nishimura, Tadashi; Sugahara, Kazuyuki; Kusunoki, Shigeru; and Inoue, Yasuo, 4,694,143, Cl. 219-388.000.
Sugahara, Kazuyuki; Nishimura, Tadashi; Kusunoki, Shigeru; and Inoue, Yasuo, 4,714,684, Cl. 437-19.000.
Inoue, Yoshiaki: *See—*
Iwata, Takashi; Yokota, Seiji; Inoue, Yoshiaki; and Koizumi, Tadashi, 4,665,296, Cl. 219-121.0PR.

Wakamatsu, Syuji; Komatsu, Toshio; Inoue, Yoshiaki; and Harima, Yoshimiko, 4,667,814, Cl. 206-0.700.
Inoue, Yoshifumi: *See—*
Shinohara, Toshio; and Inoue, Yoshifumi, 4,663,471, Cl. 556-411.000.
Inoue, Yoshiharu; Tanimoto, Fumio; and Kitano, Hisao, to Nippon Petrochemicals Company Limited. Vinylnorbornyl alcohol and perfume composition containing the same. 4,693,844, 9-15-87, Cl. 512-14.000.
Inoue, Yoshihisa: *See—*
Fukunaga, Mitsuo; and Inoue, Yoshihisa, 4,642,980, Cl. 57-58.860.
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Takaya, Takao; Takasugi, Hisashi; Yamanaka, Hideaki; Miyai, Kenji; and Inoue, Yoshikazu, 4,639,448, Cl. 514-226.000.
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Yokoyama, Akira, 4,671,201, Cl. 114-102.000.
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Asari, Akira; and Inoue, Youichi, 4,708,627, Cl. 425-405.00H.
Inoue, Yuichi, to Seiko Instruments & Electronics Ltd. Method for driving a turn detector circuit which detects the turn of a step motor. 4,673,857, 6-16-87, Cl. 318-696.000.
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Inoue, Yutaka: *See—*
Tanioka, Hiroshi; Yamakawa, Tadashi; Inoue, Yutaka; Hosaka, Masao; Yagasaki, Toshiaki; Kasama, Nobuhiro; and Kurata, Mitsuru, 4,646,249, Cl. 364-518.000.
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Inouye, Hiroshi: *See—*
Mizumoto, Muneo; Inouye, Hiroshi; and Kitsunai, Hiroyuki, 4,708,350, Cl. 277-80.000.
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Ackley, Donald E.; Engelmann, Reinhart W. H.; and Inouye, Teruko K., 4,665,525, Cl. 372-46.000.
Inouye, Tohru. Method and apparatus for locating and embedding a specimen. 4,657,720, 4-14-87, Cl. 264-275.000.
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Varshney, Ramesh C., 4,703,436, Cl. 364-490.000.
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Weik, Guenter; and Ackermann, Max 4,642,891 Cl. 29-879.000.
Inprohold Establishment: *See—*
Schlegel, Hans-Joachim, 4,673,406, Cl. 623-6.000.
INR Technologies, Inc.: *See—*
Iggulden, Jerry R., 4,685,133, Cl. 381-3.000.
INRESA Schultheiss GmbH: *See—*
Schultheiss, Alfons, 4,674,559, Cl. 164-507.000.
Schultheiss, Alfons, 4,699,198, Cl. 164-150.000.
Insa, Andre: *See—*
Mace, Guy; Anglard, Andre; and Insa, Andre, 4,685,377, Cl. 89-1.540.
Insako, KB: *See—*
Olsson, Mats A.; and Sandstrom, Roland, 4,635,571, Cl. 110-297.000.
Insana, Samuel P.: *See—*
Binzen, Willard; Insana, Samuel P.; Manning, Edward T., Jr.; and Muhoray, Cornel, 4,655,401, Cl. 241-69.000.
Insel, Richard A.; and Gigliotti, Francis, to University of Rochester Human monoclonal antibodies against bacterial toxins. 4,689,29 8-25-87, Cl. 435-240.270.
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Dunbar, Donald D., 4,683,933, Cl. 160-273.00R.
Dunbar, Donn D., 4,694,877, Cl. 160-273.00R.
Insituform Group Limited: *See—*
Wood, Eric, 4,677,472, Cl. 358-100.000.
Wood, Eric, 4,680,066, Cl. 156-156.000.
Insituform Holdings Limited: *See—*
Wood, Eric, 4,637,754, Cl. 405-150.000.
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Insley, Thomas I., to Minnesota Mining and Manufacturing Company. Sorbent sheet product. 4,650,479, 3-17-87, Cl. 604-358.000.
Insolio, Thomas A., to Harshaw/Filtrol Partnership. Constant force manual glass cutter. 4,691,438, 9-8-87, Cl. 30-164.950.
Insta-Foam Products, Inc.: *See—*
Brown, Daniel P., 4,676,437, Cl. 239-414.000.
Insta, Inc.: *See—*
Khudenko, Boris M.; and Zbar, Jack, 4,713,102, Cl. 62-535.000.
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Willard, Stephen J., 4,678,251, Cl. 439-61.000.
Instance, David J. Label in the form of a sheet and envelope. 4,637,63 1-20-87, Cl. 283-81.000.
Instance, David J. Method and apparatus for making labels. 4,675,062 6-23-87, Cl. 156-227.000.
Instance, David J. Apparatus for producing labels. 4,680,080, 7-14-87, Cl. 156-357.000.
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Redikultsev, Jury V.; Zanin, Jury G.; Shkidchenko, Alexandr N.; Gorbunov, Oleg P.; Maximov, Mikhail G.; and Chermenskaya, Taisia S., 4,689,306, Cl. 435-292.000.
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Redikultsev, Jury V.; Litvinenko, Leonid A.; Chermenskaya, Taisia S.; Petrikevich, Svetlana B.; and Maximov, Mikhail G., 4,656,138, Cl. 435-314.000.
Institut Blagoveschensky Gosudarstvenny Meditsinsky: *See—*
Kulik, Yaroslav P.; Shmyrin, Ivan I.; Utyamyshev, Rustam I.; Vyrzhikovskaya, Marina N.; and Smirnov, Boris A., 4,667,657, Cl. 128-20.000.
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Hartwig, Carl S. M., 4,639,645, Cl. 318-51.000.
Hartwig, Carl S. M., 4,665,704, Cl. 60-597.000.
Kramer-Wasserka, Thomas, 4,660,891, Cl. 299-81.000.
Institut De La Recherche Agronomique: *See—*
Roger, Loic; Maubois, Jean-Louis; Brule, Gerard; and Piot, Michel, 4,711,953, Cl. 530-366.000.
Institut de Recherche et de Coordination Acoustique Musique IRCAM: *See—*
Kergomard, Jean; and Meynial, Xavier, 4,714,001, Cl. 84-386.000.
Institut de Recherches Chimiques et Biologiques Appliquees (I.R.C.E.B.A): *See—*
Lacolle, Jean-Yves; and Danree, Bernard, 4,659,741, Cl. 514-643.000.
Institut de Recherches Chimiques et Biologiques Appliques (I.R.C.E.B.A.): *See—*
Danree, Bernard, 4,678,810, Cl. 514-640.000.

itut de Recherches de la Construction Navale: *See—*

Sicard, Claude; Kroczynski, Patrice; Gallard, Herve; Mars, Denis; and Devos, Michel, 4,697,239, Cl. 364-468.000.

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raczyk, Jan; Brejnak, Jacek; and Kawalec, Krzysztof, 4,696,622, Cl. 415-211.000.
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blonski, Marek; Kwapisz, Bogdan; Proniewicz, Andrzej; Stepniewska-Jarzebska, Joanna; and Tokarski, Czeslaw J., 4,662,982, Cl. 156-617.0SP.
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a Bate, Michael D., II; and Perri, Joseph A., 4,637,592, Cl. 266-272.000.
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Rib, Inc.: *See—*
rombie, Terence G.; and Wong, Bernard K., 4,672,888, Cl. 98-29.000.
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lonato, Alfred J. Table tray. 4,708,256, 11-24-87, Cl. 220-23.400.
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erry, Johnny D., 4,673,516, Cl. 252-49.500.
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Taber, Robert L.; and Fitts, Renee A., 4,689,295, Cl. 435-6.000.
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Intelledex Incorporated: *See—*
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Intellicard International, Inc.: *See—*
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Intellicorp Corporation: *See—*
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Intelligent Medical Systems, Inc.: *See—*
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Intelligent Medicine, Inc.: *See—*
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Hanlet, Jacques M., 4,675,577, Cl. 315-248.000.
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Inter Innovation AB: *See—*
Idegren, Gustav L.; Gyllstal, Lars-Goran L.; and Bartha, Istvan V., 4,714,029, Cl. 109-45.000.
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Inter-wood Maschinen GmbH & Co. KG: *See—*
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  - Klas, Ernst; Schmidt, Rudolf; Schumacher, Gunther; Stausebach, Dieter; and Zentis, Alfred, 4,699,010, Cl. 73-774.000.
  - Maus, Wolfgang, 4,713,361, Cl. 502-2.000.
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  - Tittizer, Gabriel, 4,715,731, Cl. 384-100.000.
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  - Barzantny, Joachim; Lauhoff, Theodor; and Thissen, Klaus, 4,668,170, Cl. 417-50.000.
- Intercal Company: *See—*
  - Vogel, Ferdinand L., 4,642,201, Cl. 252-503.000.
- Interconnect Technology Inc.: *See—*
  - Burgess, Larry W., 4,642,160, Cl. 156-630.000.
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  - Valasek, Gary M., 4,664,721, Cl. 134-26.000.
- Intercontinental Engineering-Manufacturing Corporation: *See—*
  - Kuhlman, Clare J.; and Hill, Robert P., 4,688,507, Cl. 114-249.000.
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  - Lauper, Daniel, 4,670,947, Cl. 24-71.00J
- Interdyne Service Corporation: *See—*
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  - Shimp, David A., 4,709,008, Cl. 528-422.000.
  - Skiscim, Ronald J., 4,657,983, Cl. 525-255.000.
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  - Sawyer, Philip N.; and Fitzgerald, Joseph F., 4,684,364, Cl. 604-123.000.
- Interface Research Corporation: *See—*
  - McIntosh, Robert H., 4,647,601, Cl. 523-122.000.
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  - Williams, Glenn T.; and Thomas, Michael D., 4,693,444, Cl. 248-653.000.
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  - Hummel, Karl, 4,680,827, Cl. 15-319.000.
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  - Bach, Erik, 4,715,832, Cl. 439-723.000.
- Interlock Corporation: *See—*
  - Hoffman, Reinhold; and Klimke, Walter, 4,691,865, Cl. 239-690.000.
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- Interlock Structures International, Inc.: *See—*
  - Lange, Fredric A., 4,637,193, Cl. 52-648.000.
- Intermag Incorporated: *See—*
  - Cornwell, Lionel B., 4,634,958, Cl. 323-255.000.
- Intermec Corporation: *See—*
  - Samuel, Robert A., 4,675,695, Cl. 346-1.100.
- Intermedicat GmbH: *See—*
  - Kahlert, Wolfgang; Klein, Joachim; Steinert, Hans-Jurgen; and Vorlop, Claus, 4,639,423, Cl. 435-287.000.
  - Kroner, Karl H., 4,699,013, Cl. 73-863.230.
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  - Rosskopf, Gerhard; Seidel, Dietrich; and Wieland, Heinrich, 4,648,974, Cl. 210-651.000.
  - Schmidt, Karl-Heinz; and Feller, Wolfgang, 4,698,387, Cl. 525-54.100.
- Intermedics, Inc.: *See—*
  - Alt, Eckhard, 4,688,573, Cl. 128-419.0PG.
  - Baker, Ross G., Jr., 4,679,572, Cl. 128-786.000.
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  - Sluetz, James E.; Pless, Benjamin D.; and Spehr, Paul R., 4,662,382, Cl. 128-785.000.
  - Stotts, Lawrence J., 4,663,701, Cl. 363-60.000.
- Intermedics Infusaid, Inc.: *See—*
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- Intermedics Intraocular, Inc.: *See—*
  - Sayano, Reizo; and Goldberg, Eugene P., 4,681,585, Cl. 623-6.000.
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  - Asbrink, Leif, 4,704,602, Cl. 340-551.000.
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  - Copenhafer, William C.; and Pfeffer, Henry A., III, 4,652,054, Cl. 299-5.000.
  - Copenhafer, William C.; Pfeffer, Henry A., III; and Rauh, Francis, 4,654,204, Cl. 423-422.000.
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  - Katz, Hart V.; and Kien, Gerald A., 4,712,565, Cl. 128-715.000.
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  - Gerhard, Gregory J., 4,689,308, Cl. 436-18.000.
  - Hochberg, Howard M.; Schmalzbach, Edwin L.; and Ziedonis, Janis G., 4,658,825, Cl. 128-634.000.
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  - Church, Mark A., 4,652,954, Cl. 360-120.000.
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  - Heim, David E., 4,644,432, Cl. 360-123.000.
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  - Krounbi, Mohamad T.; and Voegeli, Otto, 4,713,708, Cl. 360-113.000.
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  - Santini, Hugo A. A., 4,696,729, Cl. 204-224.00R.
  - Stockwell, Dean A., 4,663,617, Cl. 340-726.000.
  - Tsang, Ching H., 4,663,685, Cl. 360-113.000.
  - Voegeli, Otto, 4,663,676, Cl. 360-40.000.
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  - Advani, Hira; Loucks, Larry K.; and Springen, Nancy L., 4,649,479, Cl. 364-300.000.
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  - Anderson, Karen L.; and Mitchell, Joan L., 4,658,430, Cl. 382-46.000.
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rnett, Joseph A.; Gomez, Joseph M.; Green, William F.; Lisica, Vincent M.; and Rosenthal, Arnold B., 4,714,400, Cl. 414-751.000.
rzilai, Zeev; Iyengar, Vijay S.; and Silberman, Gabriel M., 4,698,830, Cl. 377-19.000.
ss, Vance R.; Bonebrake, Veronica A.; Garrison, David A.; Landis, James K.; Neff, Mary S.; Urquhart, Robert J.; and Williams, Susan C., 4,672,571, Cl. 364-900.000.
ss, Vance R.; Bonebrake, Veronica A.; Garrison, David A.; Landis, James K.; Neff, Mary S.; Urquhart, Robert J.; and Williams, Susan C., 4,701,851, Cl. 364-419.000.
ss, Walter E.; Matyas, Stephen M.; and Oseas, Jonathan, 4,649,233, Cl. 380-21.000.
uer, Hans J., 4,647,361, Cl. 204-298.000.
uer, Hans J.; and Froehlich, Marianne B., 4,704,301, Cl. 427-38.000.
ausoleil, William F.; and McManigal, David F., 4,716,546, Cl. 364-900.000.
aven, Paul A.; Canton, Dave A.; Sargeant, Nick B.; and Snagge, Tom H., 4,686,521, Cl. 340-703.000.
dnorz, Johannes G.; Gueret, Pierre L.; Nievergelt, Hermann E.; Ott, Hanspeter; Pohl, Wolfgang D.; and Widmer, Daniel F., 4,643,627, Cl. 414-217.000.
dnorz, Johannes G.; Denk, Winfried; Lanz, Martin; and Pohl, Wolfgang D., 4,684,206, Cl. 350-96.120.
dnorz, Johannes G.; Gimzewski, James K.; and Reihi, Bruno, 4,698,502, Cl. 250-306.000.
glin, Thomas W.; Pence, Jane R.; Kamionka, Harvey E.; and Pence, Jerry W., 4,638,424, Cl. 364-200.000.
ha, Johannes G.; Dreyfus, Russell W.; Hartstein, Allan M.; and Rubloff, Gary W., 4,644,264, Cl. 324-73.00R.
ha, Johannes G.; Dreyfus, Russell W.; and Rubloff, Gary W., 4,670,710, Cl. 324-73.00R.
ha, Johannes G.; Dreyfus, Russell W.; Kash, Jeffrey A.; and Rubloff, Gary W., 4,703,260, Cl. 324-158.00R.
ha, Johannes G.; Dreyfus, Russell W.; and Rubloff, Gary W., 4,706,018, Cl. 324-158.00R.
Benjamin, Jay H.; Gray, James P.; Hayward, Royal C.; Hess, Matthew L.; McGriff, Frederick E.; Miller, Ellis L.; and Weingarten, Robert A., 4,677,588, Cl. 364-900.000.
Bennett, Reid S.; Ephrath, Linda M.; Schwartz, Geraldine C.; and Selwyn, Gary S., 4,675,072, Cl. 156-626.000.
Bentley, Alan M.; Fitch, Edward W.; Freeburger, John W.; and Goulet, Gary P., 4,654,852, Cl. 371-29.000.
Beranger, Herve L.; Gaudenzi, Gene J.; Reedy, Dennis C.; and Schettler, Helmut, 4,682,050, Cl. 307-270.000.
Berkland, Philip T.; Heath, Allen W.; and Waddell, Grady K., 4,648,047, Cl. 364-519.000.
Berkland, Philip T.; Heath, Allen W.; and Waddell, Grady K., 4,656,602, Cl. 364-900.000.
Bertsch, John E., 4,707,667, Cl. 330-9.000.
Beumer, Karl W.; Gaston, Charles A.; Locke, Charles H.; Mack, Alfred; O'Neill, Brian C.; Pinckney, Warren J.; and Wilson, Alan D., 4,642,438, Cl. 219-121.00L.
Beyer, Klaus D.; Makris, James S.; Mendel, Eric; Nummy, Karen A.; Ogura, Seiki; Riseman, Jacob; and Rovedo, Nivo, 4,671,851, Cl. 156-645.000.
Bezama, Raschid J.; and Perry, Charles H., 4,684,339, Cl. 425-389.000.
Bhatia, Harsaran S.; Bhatia, Satyapal S.; Riseman, Jacob; and Valsamakis, Emmanuel A., 4,712,125, Cl. 357-59.000.
Bhattacharyya, Arup; and Wen Ho, Chung, 4,648,179, Cl. 29-832.000.
Bissinger, Werner D., 4,696,717, Cl. 156-642.000.
Bjorklund, Henry S.; Cisneros, Daniel N.; and Yardy, Raymond, 4,647,155, Cl. 350-252.000.
Bland, Patrick M.; and Bolt, William H., 4,649,373, Cl. 340-365.00R.
Blevins, Ballard J.; Kulpa, William G.; Mathis, Joseph R.; and McCullough, John W., 4,695,948, Cl. 364-200.000.
Bloom, Robert D.; Carrington, James E.; Ide, Richard A.; Traglia, Patrick J.; and Westcott, Gerald R., 4,649,501, Cl. 364-519.000.
Blum, Arnold, 4,669,079, Cl. 370-85.000.
Blum, Arnold, 4,688,222, Cl. 371-25.000.
Blum, Samuel E., 4,674,442, Cl. 118-719.000.
Bohg, Armin; and Hartmann, Kurt, 4,651,640, Cl. 101-93.480.
Bohg, Armin; Matthaei, Horst D.; and Zimmermann, Volker, 4,664,543, Cl. 400-174.000.
Bohg, Armin; Fischer, Ludwig; Gantz, Bruno; Hartmann, Kurt; and Wolfert, Gerhard, 4,688,012, Cl. 335-276.000.
Bolda, Frank J.; McKnight, John P.; and Sturm, Russell J., 4,689,608, Cl. 340-365.00L.
Bonaccio, Anthony R., 4,697,099, Cl. 307-355.000.
Boss, David W.; and Dubetsky, Derry J., 4,677,254, Cl. 174-68.500.
Bowman, Charles H.; Farringer, Jeffrey A.; Garwin, Richard L.; Greene, Larry L.; Levine, James L.; Miles, Anthony W.; and Vorhees, Kevin H., 4,675,569, Cl. 310-328.000.
Boyle, David H., 4,637,038, Cl. 377-117.000.
Braceras, George M.; and Dreibelbis, Jeffrey H., 4,709,162, Cl. 307-270.000.
Brandt, Henry R.; Gannon, Patrick M.; Leung, Wan L.; and Marchini, Timothy R., 4,695,950, Cl. 364-200.000.
Brelsford, David P.; Cerutti, Daniel D.; Coleman, Leslie S.; Davison, Gerald A.; Dewey, Pamela H.; Enichen, Margaret C.; Hartley, Sarah T.; Malinowski, Paul A.; Rogers, Roger W.; Tallman, Peter H.; and Wilczak, Lynn A., 4,674,038, Cl. 364-200.000.
Briska, Marian; Elsner, Gerhard; and Hinkel, Holger, 4,689,260, Cl. 428-161.000.
Bronte, Joseph J.; Hebert, Roland C.; and Khoury, Henri A., 4,659,220, Cl. 356-237.000.
Broom, Walter E.; Henry, Michael; and Schaffer, William J., 4,669,076, Cl. 369-77.100.
Brown, Mark W.; Dubke, Robert E.; and Kimmel, Milton J., 4,677,573, C., 364-521.000.
Brown, Mark W.; and Dubke, Robert E., 4,684,936, Cl. 340-721.000.
Brunsch, Arwed; Steiner, Werner; and Trippel, Gerhard, 4,651,092, Cl. 324-204.000.
Bryan, Barry L.; Druckerman, Martin; McDowell, Allen W.; Schneider, Ira H.; and Newkirk, Gary L., 4,641,262, Cl. 364-900.000.
Bryan, Dennis P.; and Rowe, John B., 4,713,815, Cl. 371-29.000.
Buller, Marvin L.; Lumbra, Douglas L.; Phelps, Douglas W.; Samuelsen, Sigvart J.; and Ward, William C., 4,714,953, Cl. 357-81.000.
Bumble, Bruce; Cuomo, Jerome J.; Logan, Joseph S.; and Rossnagel, Steven M., 4,637,853, Cl. 156-345.000.
Burger, Mark E.; George, Steven L.; and Ngai, Chuck H., 4,635,194, Cl. 364-200.000.
Burgess, Allan C.; Lussow, Robert O.; and Melvin, George E., 4,649,417, Cl. 357-80.000.
Burkhead, Herbert A.; and Hunt, Ronald E., 4,707,155, Cl. 400-199.000.
Burns, Francis C.; and Carden, Gary R., 4,684,436, Cl. 156-643.000.
Burns, Francis C.; Dreyfus, Russell W.; and Susko, John R., 4,687,539, Cl. 156-626.000.
Burns, Richard W., 4,643,796, Cl. 156-584.000.
Burrus, Gilbert S., Jr.; Cooper, Ronald J.; Marr, Michael R.; Pescatore, John C.; and Marsico, Mario A., 4,716,523, Cl. 364-200.000.
Buscaglia, Carl U.; and Knepper, Lawrence E., 4,636,990, Cl. 365-230.000.

Bushaw, Kenneth A.; Bustamante, Louis A.; and McCurry, James J., 4,639,126, Cl. 355-3.0SH.
Bushaw, Kenneth A., 4,648,709, Cl. 355-77.000.
Byerly, Kent A.; Feldhacker, Marvin E.; and Grant, Duane E., 4,692,877, Cl. 364-514.000.
Canton, David A.; Holloway, Brian L.; Sargeant, Nicholas B.; and Llewelyn, Roger J., 4,649,379, Cl. 340-750.000.
Capowski, Robert S.; and Zimmerman, Terrence K., 4,675,812, Cl. 364-200.000.
Capwell, Robert J.; Kaschak, Ronald A.; McBride, Donald G.; Rickert, Robert G.; and Seraphim, Donald P., 4,707,377, Cl. 427-8.000.
Carey, Paul D.; Cutts, Stanley J.; Heath, John S.; White, David E.; and Evans, David A., 4,660,117, Cl. 360-133.000.
Carini, Richard P.; Donnelly, James A.; Ellis, Joseph J., Jr.; and Lanzoni, Thomas P., 4,688,033, Cl. 340-800.000.
Carle, Jean-Francois; and Phillippot, Patrick, 4,705,591, Cl. 156-617.0SP.
Casper, Daniel F., 4,692,893, Cl. 364-900.000.
Caswell, Nathan S.; and Chang, Ifay F., 4,642,459, Cl. 250-227.000.
Cavaliere, Joseph R.; Chang, Albert Y.; and Robortaccio, Rocco J., 4,698,800, Cl. 370-24.000.
Cazcarra, Victor; and LeRoueille, Jocelyne, 4,637,123, Cl. 29-569.00R.
Chaitin, Gregory J.; Hopkins, Martin E.; Markstein, Peter W.; and Warren, Henry S., Jr., 4,656,582, Cl. 364-300.000.
Champ, Robert B.; and Vollmer, Robert L., 4,677,045, Cl. 430-76.000.
Chan, Kevin K.; and Malueg, Vicki J., 4,689,111, Cl. 156-643.000.
Chandra, Akhileshwari N.; Comerford, Liam D.; and White, Steve R., 4,644,493, Cl. 364-900.000.
Chang, Albert; Cocke, John; Mergen, Mark F.; and Radin, George, 4,638,426, Cl. 364-200.000.
Chang, Phillip, 4,679,527, Cl. 118-658.000.
Chang, Yi-Hua E.; Gruodis, Algirdas J.; Muhlfeld, Hans P., Jr.; Rodriguez, Charles W.; and Shulman, Mark L., 4,639,919, Cl. 371-27.000.
Chao, Hu H.; and Lu, Nicky C., 4,639,622, Cl. 307-482.000.
Chao, Hu H.; and Chau-Chun Lu, Nicky, 4,678,941, Cl. 307-449.000.
Chapman, Dale B.; and Chien, Jack H., 4,682,121, Cl. 331-1.00A.
Chapman, Dale B., 4,698,600, Cl. 331-1.00A.
Chappell, Barbara A.; and Schuster, Stanley E., 4,697,108, Cl. 307-475.000.
Chellis, LeRoy N.; and Ellis, Theron L., 4,704,791, Cl. 29-852.000.
Chen, Lee; and Mathad, Gangadhara S., 4,671,849, Cl. 156-643.000.
Chen, Yi-Hsin; Mintzer, Frederick C.; and Pennington, Keith S., 4,668,995, Cl. 358-282.000.
Cheselka, Harry; Lucash, Jeffrey S.; and Vincent, William R., 4,653,020, Cl. 364-900.000.
Chevillat, Pierre R.; Maiwald, Dietrich G.; and Ungerboeck, Gottfried, 4,674,103, Cl. 375-13.000.
Chickanosky, John J.; Courtney, Jack W.; and Murphy, Robert H., 4,681,221, Cl. 206-328.000.
Chiesa, George L.; Krygowski, Matthew A.; Messina, Benedicto U.; and Papanastasiou, Theodore A., 4,654,778, Cl. 364-200.000.
Childress, John F., 4,646,250, Cl. 364-518.000.
Chilinski, Herbert; Getzlaff, Klaus J.; Hajdu, Johann; and Richter, Stephan, 4,656,578, Cl. 364-200.000.
Choi, Kwangwoo; and Roberts, Stanley, 4,663,191, Cl. 427-93.000.
Chow, Ming-Fea; Guthrie, William L.; and Kaufman, Frank B., 4,702,792, Cl. 156-628.000.
Christensen, Carol S., 4,663,616, Cl. 340-724.000.
Chu, Richard C., 4,638,858, Cl. 165-185.000.
Chu, Richard C.; and Simons, Robert E., 4,709,754, Cl. 165-133.000.
Chung, Paul W.; Matick, Richard E.; and Ling, Daniel T., 4,649,516, Cl. 364-900.000.
Church, Mark A., 4,689,877, Cl. 29-603.000.
Churchwell, Robert W.; Flaitz, Philip L.; and Humenik, James N., 4,672,739, Cl. 29-589.000.
Clark, Roger J.; Economy, James; Flandera, Mary A.; Susko, John R.; and Wheater, Robin A., 4,690,962, Cl. 524-94.000.
Clarke, Thomas C.; Lu, Neng H.; Tomkiewicz, Yaffa; and Tong, Ho M., 4,690,836, Cl. 427-299.000.
Clementi, Robert J.; Gazdik, Charles E.; Lafer, William; Lovesky, Roy L.; McBride, Donald G.; Munson, Joel V.; and Skarvinko, Eugene P., 4,681,654, Cl. 156-630.000.
Clements, Silous F.; Motola, Patrick D.; and Swift, Shirley F., 4,642,792, Cl. 364-900.000.
Cocke, John; Markstein, Peter W.; and Markstein, Victoria I., 4,642,765, Cl. 364-300.000.
Cocke, John; and Hailpern, Brent T., 4,710,868, Cl. 364-200.000.
Codella, Christopher F.; and Ogura, Seiki, 4,636,822, Cl. 357-22.000.
Cohen, Donald K., 4,672,188, Cl. 250-201.000.
Cohen, Donald K.; and Yardy, Raymond, 4,694,447, Cl. 369-110.000.
Collins, David W.; and Weed, Michael A., 4,642,562, Cl. 324-83.00D.
Cook, Robert K.; and Shepard, Joseph F., 4,654,119, Cl. 156-649.000.
Cooper, John F.; Kirkpatrick, Edward S.; and Linsker, Ralph, 4,713,773, Cl. 364-491.000.
Cooper, Ronald J.; Marsico, Mario A.; Pescatore, John C.; and Sullivan, Paul D., 4,648,029, Cl. 364-200.000.
Copenhaver, Diane B.; Devany, E. Paul; and Hedgemon, LaBrose 4,648,046, Cl. 364-518.000.
Coppersmith, Don; and Kitchens, Bruce P., 4,675,650, Cl. 340-347.0DD.
Costa, Michael J.; and Shapiro, Jesse B., 4,689,617, Cl. 340-771.00
Cottrell, Peter E.; Craig, William J.; and Troutman, Ronald R. 4,670,669, Cl. 307-297.000.
Cottrell, Peter E.; Gersbach, John E.; and Pricer, Wilbur D. 4,675,559, Cl. 307-530.000.
Cottrell, Roger L.; and Murphy, Alan S., 4,688,181, C 364-521.000.
Couch, Wilfred R., 4,650,977, Cl. 235-379.000.
Cox, Allen R.; Lowe, Anthony C.; and Wood, John C., 4,684,219 Cl. 350-343.000.
Crabb, Robert M.; DeFoster, Steven M.; Rittenhouse, Norman E. West, Mark A.; and Ziegler, Richard A., 4,650,333, C 356-376.000.
Cranford, Hayden C., Jr.; and Garvin, Stacy J., 4,638,464, C 365-226.000.
Criscimagna, Tony N.; Hoffman, Harry S., Jr.; and Knecht, William R., 4,683,470, Cl. 340-771.000.
Crockett, Peter N.; Jewett, Robert P.; Scriver, Arthur J.; and Tucker, Thomas A., 4,646,236, Cl. 364-200.000.
Cronch, Darell D.; Fisher, Richard T.; Graham, Patricia A.; and Passafiume, John E., 4,706,008, Cl. 318-696.000.
Crouse, William G.; and Irvin, David R., 4,644,108, C 379-406.000.
Crowe, Jesse R.; Dove, Derek B.; and Shih, Kwang K., 4,699,53 Cl. 400-241.100.
Crus, Richard A.; Haderle, Donald J.; and Herron, Howard W. 4,716,528, Cl. 364-300.000.
Cservak, Nancy R.; Fribley, Susan K.; Goth, George R.; and Takacs, Mark A., 4,665,007, Cl. 430-311.000.
Culican, Edward F.; Pritzlaff, Philip E., Jr.; Schettler, Helmut; and Van Goor, Kenneth A., 4,656,367, Cl. 307-270.000.
Cummings, Michael J.; Hanford, Donald E.; and Japp, Robert M. 4,714,504, Cl. 156-64.000.
Cummins, Edmund M., 4,642,763, Cl. 364-300.000.
Cuomo, Jerome J.; and Guarnieri, Charles R., 4,664,7 C 204-192.100.
Czarniak, Jean-Christophe; and Diot, Rene, 4,656,435, C 330-253.000.
Daniels, Paul R., 4,689,764, Cl. 364-900.000.
Dansky, Allan H.; Savalle, Martine M. F.; and Schettler, Helmut 4,668,879, Cl. 307-454.000.
Darringer, John A.; and Joyner, William H., Jr., 4,703,435, C 364-489.000.
Darrow, Russell E.; Emerick, Alan J.; and Larnerd, John D. 4,676,426, Cl. 228-125.000.
David, Lawrence D., 4,701,314, Cl. 423-311.000.
Davidson, Evan E.; and Kiesling, David A., 4,644,265, Cl. 324-73.00R.
Davidson, William H.; and Miller, Ian, 4,654,706, Cl. 358-139.00
Day, George D.; Flack, John K.; Golledge, Ian; Hillary, Christopher J.; Pike, John V.; and Watson, Michael H., 4,640,485, C 248-422.000.
de la Salle, Christian, and D'Hervilly, Guy, 4,679,169, C 364-900.000
Deaver, Randall L.; and Milligan, John L., 4,654,656, C 340-825.080.
Decker, Dale D.; and Stanhope, Mary E., 4,696,426, Cl. 232-43.10
DeGeorge, Peter J.; Ross, Roger F.; and Sims, Donald E. 4,687,353, Cl. 400-76.000.
DeGroot, Richard D., 4,683,547, Cl. 364-748.000.
Deringer, Thomas J., 4,708,383, Cl. 294-86.400.
DesBlache, Andre; Galand, Claude; and Vermot-Gauchy, Robert 4,672,669, Cl. 381-46.000.
Di[illegible], Daniel M.; Kumar, Manoj; Lien, Yeong-Chang L.; and Maruyama, Kiyoshi, 4,679,190, Cl. 370-60.000.
Diaz, Arthur F.; and Hernandez, Richard A., 4,643,948, C 428-422.000.
Dick, Carroll J.; Linsker, Ralph; Rutter, Roger S.; and Thomas David L., 4,689,441, Cl. 174-68.500.
Dill, David M.; and Redmond, Holly F., 4,698,757, Cl. 364-300.00
Dill, Frederick H.; Ling, Daniel T.; Matick, Richard E.; and McBride, Dennis J., 4,667,305, Cl. 364-900.000.
Di Maria, Donelli J.; and Wolf, Hans P., 4,662,719, Cl. 350-332.00
DiStefano, Thomas H.; Hollis, Ralph L., Jr.; Johnson, Mark; and Wang, Sherman S., 4,684,547, Cl. 427-131.000.
Dixon, Jerry D.; Farrell, Robert H.; Marazas, Gerald A.; McNeill Andrew B., Jr.; and Merckel, Gerald U., 4,637,024, C 371-67.000.
Do, Phuc K.; Goodwin, Joel G.; and Krull, Nicholas J., 4,680,524 Cl. 318-696.000.
Dolivo, Francois B.; Ungerboeck, Gottfried; and Howell, Thomas D., 4,644,564, Cl. 375-18.000.
Donelon, John J.; Tomkiewicz, Yaffa; Wassick, Thomas A.; and Yeh, James T., 4,684,437, Cl. 156-643.000.
Donson, William A.; Ellerson, James V.; Hammer, Richard B. Lafer, William; and Snyder, Keith A., 4,690,833, Cl. 427-96.00
Doster, William A.; and Sachsenmaier, Robert, 4,644,468, C 364-200.000.
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Driscoll, Carleton D.; Najm, Elie M.; and Waechter, Manfred 4,685,020, Cl. 361-18.000.
Dube, Roger R., 4,636,027, Cl. 350-3.600.

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.; and Viallon, Paul P., 4,630,733, Cl. 364-900.000.
tton, Patrick F.; and Jackson, Earl W., Jr., 4,713,751, Cl.
64-200.000.
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gebrecht, Lewis C.; and Kummer, David A., 4,658,350, Cl.
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genberger, John S.; and Patel, Arvind M., 4,707,681, Cl. 340-
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gers, Eugene A.; and Summa, William J., 4,659,425, Cl.
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tto, Frank D.; Emmi, Francis; Mlynko, Walter E.; and Susko,
obin A., 4,654,115, Cl. 156-643.000.
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lotika, Franco; Sinchak, John L.; and Waicukauski, John A.,
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s, Kenneth L.; Martin, Stuart R.; and Slattery, William J.,
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Travis E.; and Stephenson, Jeff, 4,691,152, Cl. 318-616.000.
s, Joseph J., Jr., 4,695,838, Cl. 340-771.000.
asser, Michael; and Stohr, Roland, 4,686,464, Cl. 324-158.00P.
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onald J.; Stewart, Edward G.; Street, Ramon L.; and Thomp-
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57-22.000.
en, John F.; and Mosley, Joseph M., 4,694,261, Cl. 331-57.000.
g, Frank F.; and Grossman, Bertrand M., 4,649,638, Cl.
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vcett, Bradley W.; and Sendelbach, Lee A., 4,692,758, Cl.
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genbaum, Barry A.; Sachsenmaier, Robert; and Skowbo, James
., 4,644,470, Cl. 364-200.000.
, Edmond O.; Haselbauer, Peter; Jung, Dae Y.; Kaschak, Ro-
ald A.; Kilthau, Hans-Dieter; Magnuson, Roy H.; and Wagner,
obert J., 4,684,545, Cl. 427-98.000.
lds, Davis S., Jr., 4,685,005, Cl. 360-53.000.
dlay, Hugh T., 4,692,395, Cl. 430-254.000.
mholz, Alexander L., 4,637,714, Cl. 355-77.000.
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28-204.000.
t, Ephraim B.; Gruber, Peter A.; Marks, Ronald F.; Olive,
raham; and Zingher, Arthur R., 4,685,606, Cl. 228-123.000.
, Wilson W.; and Moussouris, John P., 4,684,921, Cl. 340-
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, Wilson W., 4,688,016, Cl. 340-347.0DD.
vler, Alan B.; and Hartstein, Allan M., 4,672,423, Cl. 357-23.300.
chet, Jean M. J.; Ito, Hiroshi; MacDonald, Scott A.; and Will-
on, Carlton G., 4,657,845, Cl. 430-326.000.
dericks, Edward C.; and Nanda, Madan M., 4,640,738, Cl.
56-656.000.
dericks, Kenneth J.; Guerriero, Thomas W.; Miracle, Gerald
.; and Wiegand, Michael R., 4,712,176, Cl. 364-200.000.
eman, Leo B., 4,677,312, Cl. 307-200.00A.
eouf, John L.; Jackson, Thomas N.; Laux, Steven E.; and
oodall, Jerry M., 4,638,342, Cl. 357-15.000.
y, Alexander H., 4,638,449, Cl. 364-760.000.
edman, Lee G.; Hailpern, Brent T.; Hoevel, Lee W.; and The-
aine, Yannick J., 4,710,769, Cl. 340-825.030.
ehauf, William J.; Janssen, Donovan M.; Kirton, Alan J.; Mur-
hy, Robert M.; and Rose, Leroy, 4,636,892, Cl. 360-97.000.
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shour, James E.; Mahar, Michael L.; Majka, Christopher J.; and
wenson, John E., 4,644,237, Cl. 318-313.000.
shour, James E., 4,697,142, Cl. 324-158.00R.
ton, Inge G.; Makris, James S.; Nastasi, Victor R.; Scaduto,
nthony F.; and Shartel, Anne C., 4,666,556, Cl. 156-643.000.
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l. 364-900.000.
land, Claude; and Daulasim, Khamphuc, 4,677,671, Cl.
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rwin, Richard L.; and Levine, James L., 4,642,422, Cl.
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udenzi, Gene J.; and Reedy, Dennis C., 4,682,056, Cl.
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orge, Frederick D.; Jaffe, Jeffrey M.; and Moss, Franklin H.,
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orgiou, Christos J., 4,635,250, Cl. 370-58.000.
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.; Lopata, Alexander D.; Scaduto, Anthony F.; and Shepard,
oseph F., 4,707,218, Cl. 156-643.000.
lett, John B.; and Miraglia, John A., 4,636,019, Cl. 339-17.00M.
nzewski, James K.; and Pohl, Wolfgang D., 4,668,865, Cl.
50-306.000.
roir, Didier; and Lacoste, Gerard, 4,672,536, Cl. 364-200.000.
adney, Henry M.; Lorch, Douglas J.; and Mattson, Richard L.,
,714,992, Cl. 364-200.000.

Gladney, Henry M.; Lorch, Douglas J.; and Mattson, Richard L., 4,714,996, Cl. 364-300.000.
Glaise, Rene J., 4,712,216, Cl. 371-38.000.
Glass, David W.; and Routt, Wilson M., Jr., 4,715,687, Cl. 350-345.000.
Godard, Dominique, 4,654,861, Cl. 375-10.000.
Goertzel, Gerald, and Thompson, Gerhard R., 4,654,721, Cl. 358-283.000.
Goertzel, Gerald, 4,672,539, Cl. 364-300.000.
Goth, George R., 4,691,219, Cl. 357-34.000.
Goth, George R.; and Malaviya, Shashi D., 4,704,368, Cl. 437-60.000.
Gourneau, Dwight A.; and Kerchberger, Steven W., 4,675,807, Cl. 364-200.000.
Graf, Volker; Gueret, Pierre L.; and Mueller, Carl A., 4,647,954, Cl. 357-23.300.
Grafe, Robert J.; and Pancoast, Steven T., 4,709,367, Cl. 371-38.000.
Gray, James P.; Hansen, Peter J.; Lerner, Michael A.; and Pozefsky, Mark, 4,688,035, Cl. 340-825.520.
Greanias, Evon C.; Guarnieri, C. Richard; Seeland, John J., Jr.; Verrier, Guy F.; and Donaldson, Robert L., 4,686,332, Cl. 178-19.000.
Greenberg, Richard; and Styczinski, David A., 4,656,532, Cl. 360-48.000.
Greschner, Johann; Schwerdt, Friedrich W.; and Trumpp, Hans J., 4,642,163, Cl. 156-643.000.
Griffin, William R.; Heller, Lawrence G.; and Horowitz, Peter N., 4,638,482, Cl. 371-63.000.
Gruzman, Boris; and Nilsen, Carl-Otto, 4,639,572, Cl. 219-121.0LG.
Gunn, John B., 4,712,916, Cl. 356-241.000.
Haas, Lee C.; and Loeb, Mitchell L., 4,677,618, Cl. 371-1.000.
Habich, Adolph B.; and Hunt, Ronald E., 4,635,919, Cl. 271-22.000.
Habich, Adolph B.; and Hunt, Ronald E., 4,640,502, Cl. 271-4.000.
Hakenewerth, Paul A.; Wadia, Aspi B.; Walker, James R.; and White, James M., 4,684,802, Cl. 250-235.000.
Halliwell, Harry, 4,675,665, Cl. 340-707.000.
Halter, Edward Arnold; Purcell, Billy D.; and Toutant, Edward E., 4,636,098, Cl. 400-208.000.
Hames, Jeffrey L.; Lacey, Charles M.; Neuman, Ronald R.; and Reidenbach, John R., 4,661,729, Cl. 310-13.000.
Hammer, William E.; Schwane, Walter H.; and Ziecina, Frederick J., 4,649,473, Cl. 364-200.000.
Harder, Christoph S.; Wolf, Hans P.; Baechtold, Werner; Gueret, Pierre L.; and Baratoff, Alexis, 4,675,711, Cl. 357-22.000.
Harder, Christoph S.; Jaeckel, Heinz; and Wolf, Hans P., 4,711,858, Cl. 437-99.000.
Hartung, Michael H.; and Tayler, Gerald E., 4,636,946, Cl. 364-200.000.
Hartung, Michael H., 4,638,425, Cl. 364-200.000.
Hatzakis, Michael; Liutkus, John J.; Paraszczak, Jurij R.; and Shaw, Jane M., 4,678,850, Cl. 526-293.000.
Headrick, Michael R., 4,672,177, Cl. 219-216.000.
Heard, Roderick S.; and Tremoulet, Joseph C., 4,689,768, Cl. 364-900.000.
Heath, Allen W., 4,710,886, Cl. 364-519.000.
Hedman, Robert L., 4,698,599, Cl. 330-252.000.
Herd, Harold H.; Jacobowitz, Lawrence; and Shaw, Jane M., 4,665,010, Cl. 430-330.000.
Hernandez, Irene H.; McCaskill, Rex A.; and Barker, Barbara A., 4,663,615, Cl. 340-721.000.
Hernandez, Irene H.; Barker, Barbara A.; Himelstein, Carol S.; and Machart, Beverly H., 4,674,042, Cl. 364-401.000.
Hernandez, Irene H.; Barker, Barbara A.; Himelstein, Carol S.; and Machart, Beverly H., 4,674,043, Cl. 364-401.000.
Hernandez, Irene H.; Himelstein, Carol S.; and Wang, John S., 4,686,522, Cl. 340-709.000.
Herron, Lester W.; Master, Raj N.; and Nufer, Robert W., 4,671,928, Cl. 419-10.000.
Herzog, Alexander; Marlin, James W.; Platte, Brian G.; and Yeskel, Filip J., 4,651,278, Cl. 364-300.000.
Hester, Phillip D.; and Simpson, Richard O., 4,680,700, Cl. 364-200.000.
Himelstein, Carol S.; and Wang, John S., 4,661,810, Cl. 340-709.000.
Himelstein, Carol S.; and Wang, John S., 4,683,468, Cl. 340-709.000.
Hiraoka, Hiroyuki; Labadie, Jeffrey W.; Lee, James H.; MacDonald, Scott A.; and Willson, Carlton G., 4,690,838, Cl. 427-343.000.
Hitchcock, Robert B.; Kellerman, Eduardo; and Koons, John P., 4,700,016, Cl. 174-68.500.
Hitchcock, Robert B., Sr.; and Graf, Matthew C., 4,656,580, Cl. 364-200.000.
Holden, Ian; and Malings, Michael J., 4,698,779, Cl. 364-520.000.
Holloway, Brian L.; and Llewelyn, Roger J., 4,644,340, Cl. 340-749.000.
Hong, Ju-Hi J., 4,677,627, Cl. 371-57.000.
Horlander, Frank J., 4,700,199, Cl. 346-76.0PH.
Horlander, Frank J., 4,701,836, Cl. 346-76.0PH.
Horn, Gary R.; and Mikelait, Robert C., 4,709,348, Cl. 364-900.000.
Hovel, Harold J.; and Kuech, Thomas F., 4,708,883, Cl. 427-38.000.
Howard, James K., 4,657,824, Cl. 428-611.000.
Howard, Robert T., Jr., 4,646,958, Cl. 228-123.000.
Howes, James K.; Kluvo, Kenneth G.; Rex, Donald K.; and White, Graham M., 4,671,686, Cl. 400-605.000.

Hrustich, John; and Sitler, Wayne R., 4,639,856, Cl. 364-200.000.
Hunt, Ronald E., 4,687,192, Cl. 271-119.000.
Hwang, Bao-Tai; Orr-Arienzo, Wendy A.; and Glang, Reinhard, 4,681,657, Cl. 156-657.000.
Iannucci, Robert A., 4,685,088, Cl. 365-230.000.
Indyk, Richard F.; Lamelas, Francisco J.; and Neisser, Mark O., 4,663,186, Cl. 427-57.000.
Irvin, David R., 4,679,187, Cl. 370-17.000.
Irwin, John W., 4,695,945, Cl. 364-200.000.
Irwin, John W., 4,703,420, Cl. 364-200.000.
Ishii, Takashi, 4,698,808, Cl. 371-21.000.
Itoh, Masaharu; Yokemura, Taketoshi; and Yanagisawa, Hiroshi, 4,682,869, Cl. 358-260.000.
Iwai, Shinichi; and Uno, Sakae, 4,710,806, Cl. 358-81.000.
Iwami, Tomoyuki, 4,682,297, Cl. 364-521.000.
Iyer, Subramanian S., 4,638,347, Cl. 357-54.000.
Jackson, Paul H., 4,636,770, Cl. 340-309.400.
Jackson, Robert L., 4,701,351, Cl. 427-98.000.
Jambotkar, Chakrapani G., 4,663,832, Cl. 29-576.00W.
Jambotkar, Chakrapani G.; and Renbeck, Robert B., 4,689,869, Cl. 437-44.000.
James, Leland E., 4,650,927, Cl. 379-96.000.
Jarisch, Walter; and Makosch, Gunter, 4,653,922, Cl. 356-357.000.
Jasinski, Joseph M.; Meyerson, Bernard S.; and Scott, Bruce A., 4,684,542, Cl. 437-245.000.
Jenner, Earle H., 4,648,031, Cl. 364-200.000.
Jitsukawa, Hirotoshi; and Maruyama, Tsutomu, 4,670,880, Cl. 371-36.000.
Johnson, Eric A.; and Price, Lynn A., II, 4,642,618, Cl. 340-683.000.
Johnson, Eric D., 4,669,178, Cl. 29-571.000.
Johnson, Steven E.; Karat, John; and Ruiz, Thomas M., 4,648,062, Cl. 364-900.000.
Jones, Carol R.; and Susko, Robin A., 4,715,941, Cl. 204-192.360.
Jones, Gardner D., Jr.; and Larsen, Larry D., 4,663,675, Cl. 360-32.000.
Jones, Gardner D., Jr., 4,712,235, Cl. 379-410.000.
Jones, Gerald W.; Pratt, W. Robert; and Summa, William J., 4,697,923, Cl. 356-239.000.
Jones, Pamela K., 4,706,577, Cl. 109-59.00T.
Jones, Rick O.; Price, Walter F., Jr.; Siemer, Glenn E.; and Ulrich, Michael H., 4,634,267, Cl. 355-66.000.
Jordy, George J.; and Mosley, Joseph M., 4,635,228, Cl. 365-154.000.
Jordy, George J.; and Mosley, Joseph M., 4,675,846, Cl. 365-174.000.
Jordy, George J.; Mooney, Donald B.; and Mosley, Joseph M., 4,689,772, Cl. 365-201.000.
Jove, Stephen A.; and Klaassen, Klaas B., 4,706,138, Cl. 360-67.000.
Joy, Richard C.; Kemlage, Bernard M.; and Mauer, John L., IV, 4,688,069, Cl. 357-34.000.
Juliana, Anthony, Jr.; Latta, Milton R.; Sincerbox, Glenn V.; and Willson, Carlton G., 4,645,338, Cl. 356-150.000.
Kant, Rishi; McEfee, Dennis R.; Roth, Thomas F.; and Wilmer, Richard K., 4,670,804, Cl. 360-102.000.
Kantor, Sherwood; Selby, Garry J.; and Wolfe, Larry L., 4,681,424, Cl. 355-14.00R.
Karidis, John P., 4,681,467, Cl. 400-124.000.
Karidis, John P., 4,712,027, Cl. 310-12.000.
Kenney, Donald M.; and Mandelman, Jack A., 4,642,491, Cl. 307-571.000.
Kenney, Donald M., 4,648,073, Cl. 365-149.000.
Kerr, Randal H.; and Mesnard, Robert M., 4,696,003, Cl. 371-19.000.
Kim, Kyong-Min; Smetana, Pavel; and Westdorp, Wolfgang A., 4,659,423, Cl. 156-617.0SP.
Kimmel, Richard D.; Knepper, Ronald W.; and Levi, Richard, 4,651,302, Cl. 365-104.000.
Kirkpatrick, Edward S.; Kronstadt, Eric P.; Montoye, Robert K.; and Wilcke, Winfried W., 4,656,417, Cl. 324-73.00R.
Klaassen, Klaas B., 4,712,144, Cl. 360-67.000.
Kobayashi, Masashi; Takahashi, Keishi; and Yoneyama, Kimiya, 4,691,258, Cl. 360-97.000.
Korth, Hans-Erdmann, 4,641,971, Cl. 356-357.000.
Kraus, Charles J.; Stoller, Herbert I.; and Wu, Leon L., 4,688,151, Cl. 361-405.000.
Kriz, Thomas A., 4,680,703, Cl. 364-200.000.
Kroll, Charles T., Jr.; and Stephens, Geoffrey B., 4,656,729, Cl. 29-571.000.
Kronstadt, Eric P.; Gheewala, Tushar R.; and Gandhi, Sharad P., 4,691,277, Cl. 364-200.000.
Kummer, David A.; Saenz, Jesus A.; and Trynosky, Stephen W., 4,706,079, Cl. 340-799.000.
Kunzinger, Charles A., 4,710,801, Cl. 358-23.000.
Lam, Chung H., 4,665,417, Cl. 357-23.500.
Lange, Frederick R.; and Rosenbaum, Walter S., 4,674,065, Cl. 364-900.000.
Lange, Russell C.; and Scheuerlein, Roy E., 4,651,183, Cl. 357-23.600.
Lange, Russell C.; and Wang, Wen-Yuan, 4,652,898, Cl. 357-23.600.
Larsen, Thor A.; Martin, David H.; and Moth, Frank T., 4,644,344, Cl. 340-785.000.
Larsen, Thor A., 4,699,469, Cl. 350-333.000.
Lebizay, Gerald, 4,695,999, Cl. 370-58.000.
Lebizay, Gerald; Lien, Yeong-Chang L.; and Yu, Philip S., 4,706,150, Cl. 340-825.500.
Lechaton, John S.; Malaviya, Shashi D.; Schepis, Dominic J.; and Srinivasan, Gurumakonda R., 4,661,832, Cl. 357-49.000.
Lewis, David O.; McMahon, Lynn A.; and Schardt, Terry L., 4,648,033, Cl. 364-200.000.
Ling, Daniel T.; Oklobdzija, Vojin G.; and Raver, Norman, 4,700,086, Cl. 307-443.000.
Linger, Claude J., 4,672,676, Cl. 382-8.000.
Litteken, Mark A., 4,710,885, Cl. 364-518.000.
Livingston, David L.; Sucher, Daniel J.; and Walk, Bruce M., 4,714,993, Cl. 364-200.000.
Lo, Tin-Chee, 4,686,392, Cl. 307-448.000.
Lu, Nicky C., 4,649,625, Cl. 29-571.000.
Lu, Nicky C.; Ning, Tak H.; and Terman, Lewis M., 4,688,063, Cl. 357-23.600.
Lucash, Jeffrey S.; and Mann, Joy L., 4,651,146, Cl. 340-721.000.
Luoma, Richard W.; Reidenbach, John R.; and Schwieters, Car ence R., 4,700,246, Cl. 360-98.000.
Lycke, Anders H., 4,662,503, Cl. 198-345.000.
Magnuson, Roy H.; and Schubert, Steven A., 4,666,858, Cl. 436-104.000.
Mahmoud, Issa S., 4,636,251, Cl. 75-246.000.
MaKosch, Gunter, 4,714,348, Cl. 356-351.000.
Malaviya, Shashi D., 4,648,173, Cl. 29-576.00W.
Mansuria, Mohanlal S.; Meinert, Rolf G.; Oktay, Sevgin; and Ostergren, Carl D., 4,696,578, Cl. 374-45.000.
Marple, Wendell P.; and Miller, Hubert A., 4,698,528, Cl. 307-517.000.
Martin, Daniel B., 4,638,427, Cl. 364-200.000.
Martin, David H.; and Spanner, Raymond A., 4,649,382, Cl. 340-785.000.
Martin, Mary S.; McCord, Elizabeth; Puckett, Harley D., Jr.; and Scrutchin, Thomas W., Jr., 4,649,513, Cl. 364-900.000.
Matick, Richard E.; Ling, Daniel T.; and Dill, Frederick H., 4,663,729, Cl. 364-900.000.
Matyas, Stephen M., 4,661,658, Cl. 380-23.000.
McBride, Donald G.; and Rickert, Robert G., Jr., 4,652,345, Cl. 204-14.100.
McBride, Donald G.; and Rickert, Robert G., 4,692,346, Cl. 427-8.000.
McBride, Donald G.; and Rickert, Robert G., 4,707,378, Cl. 427-8.000.
McCaskill, Rex A.; and Wang, John S., 4,698,625, Cl. 340-709.000.
Meltzer, Clifford B.; Kannan, Krishnamurthi; Burket, Thomas G.; Kruesi, Deborah J.; and Braudaway, Gordon W., 4,712,214, Cl. 371-32.000.
Metwaly, Mohamed F., 4,670,842, Cl. 364-419.000.
Meyerson, Bernard S.; Joshi, Rajiv V.; Rosenberg, Robert; and Patel, Vishnubhai V., 4,647,494, Cl. 428-216.000.
Millham, Ernest H., 4,682,330, Cl. 371-20.000.
Millham, Ernest H.; Moser, John J.; Shushereba, John J.; and Visco, Gary P., 4,696,005, Cl. 371-27.000.
Minshull, John F.; and Pinnell, Martin C., 4,642,790, Cl. 364-900.000.
Mintzer, Frederick C.; and Anderson, Karen L., 4,712,140, Cl. 358-260.000.
Mitchell, Joan L. V.; Anderson, Karen L.; and Mintzer, Frederick C., 4,689,824, Cl. 382-46.000.
Mohiuddin, Kottappuram M. A.; and Rissanen, Jorma J., 4,652,856, Cl. 340-347.0DD.
Montanari, Gerard M.; Baudelot, Francis E.; and Costes, Michel L., 4,695,997, Cl. 370-13.000.
Moore, Victor S.; Kraft, Wayne R.; and Rhodes, Joseph C., Jr., 4,660,171, Cl. 364-900.000.
Moritz, Holger; and Pfeiffer, Gerd, 4,659,650, Cl. 430-313.000.
Motika, Franco; and Waicukauski, John A., 4,688,223, Cl. 371-27.000.
Mueller, Wolfgang F., 4,697,058, Cl. 219-56.210.
Muhich, John S.; and Thornley, Joseph S., 4,706,074, Cl. 340-709.000.
Murphy, Alan S., 4,667,182, Cl. 340-407.000.
Nair, Ravindra K., 4,700,316, Cl. 364-488.000.
Nash, Dennis P.; Rex, Donald K.; Siegl, Ludwig R.; and Wusow, Wendy, 4,643,601, Cl. 400-216.100.
Nebgen, Gilbert B.; and Pelc, Rafael, 4,667,117, Cl. 307-154.000.
Neubauer, Jerry L.; Schmidt, Laurence J.; and Voss, Steven H., 4,639,802, Cl. 360-98.000.
Newton, Stephen F., 4,672,303, Cl. 323-285.000.
Ng, Chan Y.; Ouchi, Norman K.; Wang, David T.; and Yu, Wellington C., 4,680,653, Cl. 360-72.200.
Ngai, Chuck H.; and Watkins, Gerald J., 4,692,633, Cl. 307-269.000.
Nguyen, Son V.; and Severson, James M., 4,635,139, Cl. 368-25.000.
Nilsson, Ben A.; and Shepherd, Roger D., 4,711,552, Cl. 355-3.00R.
Noble, Wendell P., Jr.; Scheuerlein, Roy E.; and Walker, William W., 4,675,982, Cl. 29-576.00B.
Norgren, Kent S.; and Vogelsberg, Robert E., 4,660,169, Cl. 364-900.000.
Ogura, Seiki; Riseman, Jacob; Rovedo, Nivo; and Shepard, Joseph F., 4,641,170, Cl. 357-35.000.
Ogura, Seiki; Riseman, Jacob; Rovedo, Nivo; and Schulz, Ronald N., 4,648,937, Cl. 156-643.000.
Ohmori, Keiji, 4,716,533, Cl. 364-518.000.
Oklobdzija, Vojin G.; and Ling, Daniel T., 4,714,994, Cl. 364-200.000.
Olnowich, Howard T., 4,701,842, Cl. 364-200.000.

Oman, Price W.; Rinaldi, Mark A.; Russo, Vito W.; and Salyer, Gregory, 4,635,186, Cl. 364-200.000.
Ostergren, Carl D.; and Paivanas, John A., deceased, 4,639,829, Cl. 361-386.000.
Pasterchick, Harry, Jr.; and Turner, Craig W., 4,677,527, Cl. 361-395.000.
Patel, Arvind M., 4,703,485, Cl. 371-37.000.
Patel, Arvind M., 4,706,250, Cl. 371-39.000.
Paul, Wolfgang J.; and Pippenger, Nicholas J., 4,663,620, Cl. 340-825.500.
Pearce, Harold B., and West, Lynn P., 4,712,221, Cl. 375-14.000.
Pennebaker, William B., 4,656,665, Cl. 382-51.000.
Pennington, Keith S.; Afzali-Ardakani, Ali; and Sachdev, Krishna G., 4,678,701, Cl. 428-213.000.
Picard, Jean-Louis, 4,642,810, Cl. 375-37.000.
Piro, Ronald A., 4,701,637, Cl. 307-297.000.
Pomerene, James H.; Puzak, Thomas R.; Rechtschaffen, Rudolph N.; Rosenfeld, Philip L.; and Sparacio, Frank J., 4,679,141, Cl. 364-200.000.
Prasad, Chandrika; and Szewczyk, Andrew F., 4,634,041, Cl. 228-124.000.
Prasad, Chandrika; and Szewczyk, Andrew F., 4,714,982, Cl. 361-404.000.
Presley, Donald R., 4,661,882, Cl. 361-159.000.
Pricer, Wilbur D., 4,701,642, Cl. 307-446.000.
Prilik, Ronald J., 4,686,462, Cl. 324-158.00R.
Purcell, Billy D.; and Toutant, Edward E., 4,650,356, Cl. 400-208.000.
Radcliffe, Jerry K., 4,642,743, Cl. 363-21.000.
Rajeevakumar, Thekkemadathil V.; and Terman, Lewis M., 4,638,462, Cl. 365-203.000.
Reddy, Srinivasa S. N., 4,659,406, Cl. 156-89.000.
Repass, James T.; Ruiz, Thomas M.; Shipp, Kenneth O., Jr.; and Wood, Richard B., 4,648,067, Cl. 364-900.000.
Repass, James T.; Ruiz, Thomas M.; Shipp, Kenneth O., Jr.; and Wood, Richard B., 4,648,071, Cl. 364-900.000.
Rhodes, Joseph C., Jr.; Moore, Victor S.; Kraft, Wayne R.; and Barrs, John W., 4,685,080, Cl. 364-900.000.
Rickard, Dale A.; and Rudelis, Glen H., 4,638,183, Cl. 307-291.000.
Riley, Mack W., 4,691,170, Cl. 328-20.000.
Riso, Vladimir; and Kuhne, Roland, 4,648,102, Cl. 375-106.000.
Robinson, Clifford J., 4,677,032, Cl. 428-611.000.
Robinson, John T., 4,709,326, Cl. 364-200.000.
Rockett, Leonard R., Jr., 4,638,463, Cl. 365-205.000.
Romero, Hector, Jr.; St. Clair, Joe C.; and Wagoner, James D., 4,648,032, Cl. 364-200.000.
Rooke, Paul A., 4,635,985, Cl. 294-2.000.
Rossi, Eva-Maria; and Tietze, Armin R., 4,693,908, Cl. 427-130.000.
Roucek, Joseph A.; and Tessier, James R., 4,691,426, Cl. 29-402.180.
Rubloff, Gary W.; and Wittmer, Marc F., 4,692,348, Cl. 437-82.000.
Rush, Elizabeth A.; Howell, Dan M.; and Kolpek, Robert A., 4,686,649, Cl. 364-900.000.
Ryan, Charles T., 4,652,974, Cl. 361-395.000.
Sachdev, Krishna G.; Kwong, Ranee W.; Khojasteh, Mahmoud M.; and Sachdev, Harbans S., 4,665,006, Cl. 430-270.000.
Sachdev, Krishna G.; Kwong, Ranee W.; Gupta, Mani R.; Chace, Mark S.; and Sachdev, Harbans S., 4,692,205, Cl. 156-643.000.
Sakaue, Yoshinori; and Sugimoto, Kazutoshi, 4,665,441, Cl. 358-280.000.
Satoh, Junichi, 4,641,357, Cl. 382-61.000.
Scarborough, Randolph G., 4,710,872, Cl. 364-300.000.
Schlig, Eugene S.; and Chamberlain, Savvas G., 4,639,678, Cl. 324-457.000.
Schmidt, Laurence J.; Severson, Randall L.; Tufty, Lyle R.; and Voss, Steven H., 4,683,505, Cl. 360-98.000.
Schulz, Dietmar; Pohl, Peter; and Johnson, Alfred H., 4,715,674, Cl. 350-96.210.
Schuster, Stanley E., 4,645,954, Cl. 307-475.000.
Schwall, Robert E., 4,689,707, Cl. 361-19.000.
Scranton, Robert A.; and Thompson, David A., 4,648,087, Cl. 360-103.000.
Scranton, Robert A., 4,666,315, Cl. 384-1.000.
Scranton, Robert A.; Thompson, David A.; and Worthington, Thomas K., 4,669,013, Cl. 360-106.000.
Selander, Raymond K., 4,644,163, Cl. 250-341.000.
Shepard, Joseph F., 4,636,834, Cl. 357-23.300.
Shu, Nan-Chiang, 4,680,705, Cl. 364-300.000.
Silvestri, Victor J.; and Tang, D. Duan-Lee, 4,689,656, Cl. 357-49.000.
Sokol, Gary L.; Steen, Michael J.; and Stephen, Douglas A., 4,688,123, Cl. 360-97.000.
Spreen, James H., 4,703,409, Cl. 363-45.000.
Staiger, Dieter E., 4,648,042, Cl. 364-486.000.
Stelzenmuller, William K., 4,673,977, Cl. 358-133.000.
Stephens, Lawrence K.; and Hayes, Robert B., 4,644,478, Cl. 364-550.000.
Stephens, Lawrence K., 4,672,575, Cl. 364-900.000.
Stich, Michael C.; Resman, John B.; Ottesen, Hjalmar H.; and Anderson, Todd B., 4,697,127, Cl. 318-561.000.
Stock, Helmut, 4,675,764, Cl. 360-106.000.
Stoll, Erich P., 4,646,573, Cl. 73-606.000.
Strom, Robert E.; and Yemini, Shaula, 4,665,520, Cl. 371-7.000.
Sueta, Yoshihisa, 4,692,691, Cl. 324-73.00R.
Sun, Shu S.; and Laumann, Curt W., 4,649,519, Cl. 365-122.000.
Swank, Edgar W., 4,641,274, Cl. 364-900.000.
Szonyi, Laszio, 4,642,781, Cl. 364-513.000.
Tajima, Satoshi; and Watanabe, Shinpei, 4,644,497, Cl. 364-900.000.
Taub, Daniel M., 4,663,708, Cl. 364-200.000.
Thomas, Vincent P.; West, Roderick M. P.; and Woodley, John P., 4,672,579, Cl. 365-155.000.
Tien, Zu-Jean, 4,713,140, Cl. 156-626.000.
Torres, Abraham, 4,685,078, Cl. 364-770.000.
Toyokawa, Kazuhara, 4,673,987, Cl. 358-260.000.
Tozawa, Yoshio, 4,654,720, Cl. 358-283.000.
Troupes, Demetrios; and Alexander, Randall W., 4,703,323, Cl. 340-790.000.
Troupes, Demetrios; and Alexander, Randall W., 4,712,102, Cl. 340-790.000.
Tsai, Mon Y., 4,680,539, Cl. 324-73.00R.
Tufty, Lyle R., 4,676,672, Cl. 384-537.000.
Turner, John A., 4,635,107, Cl. 358-68.000.
Varker, Kenneth J., 4,662,963, Cl. 156-176.000.
Vautier, Remi A., 4,675,843, Cl. 364-900.000.
Veneski, Gerard A., 4,661,901, Cl. 364-200.000.
Vinal, Albert W., 4,642,709, Cl. 360-77.000.
Vinal, Albert W., 4,647,992, Cl. 360-77.000.
Vinal, Albert W., 4,654,684, Cl. 357-27.000.
Vinal, Albert W., 4,668,913, Cl. 324-235.000.
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Vincent, James P.; and Weidmann, Mary E., 4,645,238, Cl. 283-67.000.
Wagner, Dietmar, 4,681,442, Cl. 356-237.000.
Waldecker, Donald E.; and Wright, Charles G., 4,669,056, Cl. 364-900.000.
Wallace, David R., 4,686,623, Cl. 364-300.000.
Wallace, Joseph E.; and Wang, Han C., 4,703,689, Cl. 101-93.290.
Walsh, James R., 4,660,144, Cl. 364-200.000.
Wang, John S., 4,701,752, Cl. 340-723.000.
Weiss, Joel R., 4,675,240, Cl. 428-611.000.
Wells, Oliver C., 4,665,313, Cl. 250-306.000.
Wen, Sheree H., 4,644,335, Cl. 340-683.000.
West, Lynn P., 4,679,001, Cl. 328-167.000.
Widmer, Albert X., 4,665,517, Cl. 370-86.000.
Wiedmann, Siegfried K., 4,694,433, Cl. 365-230.000.
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Williams, Randal R., 4,636,073, Cl. 356-243.000.
Workman, Michael L., 4,679,103, Cl. 360-77.000.
Wright, Charles G., 4,688,172, Cl. 364-200.000.
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Miller, Jack E., 4,699,405, Cl. 285-338.000.

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Givens, Edwin N., and Kang, Doohee, 4,675,024, Cl. 44-51.000.
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Boughton, Geoffrey J., 4,639,723, Cl. 340-799.000.
Boughton, Geoffrey J., 4,647,916, Cl. 340-724.000.
Cliff, John F.; and Walton, Robert R., 4,713,656, Cl. 340-723.000.
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Fox, Trevor R., 4,688,232, Cl. 375-87.000.
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Martin, Sidney H., 4,643,333, Cl. 220-345.000.
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Russell, Brian M., 4,641,307, Cl. 370-60.000.
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Spillar, Alan; and Desyllas, Peter L. L., 4,697,234, Cl. 364-200.000.
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Vachek, Markus, 4,662,638, Cl. 273-160.000.

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Hammett, Roy, 4,700,836, Cl. 206-427.000.
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McNally, Paul F., 4,712,106, Cl. 340-870.320.

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  - Hall, John B., 4,650,898, Cl. 560-254.000.
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  - Sprecker, Mark A.; and Hanna, Marie R., 4,639,330, Cl. 252-522.00R.
  - Sprecker, Mark A.; Wiegers, Wilhelmus J.; Belko, Robert P.; and Boden, Richard M., 4,643,903, Cl. 426-538.000.
  - Sprecker, Mark A., 4,650,603, Cl. 252-522.00R.
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  - Verkler, Charles E., 4,690,044, Cl. 99-419.000.
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  - Luczak, Francis J.; and Landsman, Douglas A., 4,677,092, Cl. 502-185.000.
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  - Sederquist, Richard A., 4,642,272, Cl. 429-17.000.
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  - Smith, J. Harold, 4,642,042, Cl. 425-364.00R.
  - Stewart, Robert C., Jr., 4,670,300, Cl. 427-115.000.
  - Swarr, Thomas E.; and Trocciola, John C., 4,708,917, Cl. 429-40.000.
  - Taylor, William A., 4,670,357, Cl. 429-12.000.
  - Taylor, William A.; and Abrams, Martin L., 4,706,737, Cl. 165-47.000.
  - Wertheim, Ronald J., 4,678,723, Cl. 429-17.000.
  - Wnuck, Wayne G.; Dec, Bryan J.; and Jarvis, Raymond J., 4,654,195, Cl. 419-2.000.
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  - Breault, Richard D.; and Donahue, John, 4,652,502, Cl. 429-13.000.
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  - Dickinson, Peter D.; and Luciano, Robert A., 4,711,452, Cl. 273-143.00R.
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  - Neville, Donald, 4,669,580, Cl. 158-1.120.
  - Neville, Donald G., 4,640,486, Cl. 248-425.000.
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  - Beal, Charles B.; Fields, C. Bruce; and Stewart, David L., 4,645,486, Cl. 604-4.000.
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  - Zepp, Lawrence P., 4,644,893, Cl. 114-286.000.
  - Zepp, Lawrence P., 4,651,123, Cl. 338-176.000.
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  - Haardt, Henry; and Magdon, John, 4,681,295, Cl. 249-135.000.
  - Jenkins, Evan J., 4,634,449, Cl. 8-507.000.
  - Rawlings, David L.; Glick, Robert E.; and Chang, Robert, 4,680,149, Cl. 264-2.100.
  - Schaffner, Hans S., 4,647,261, Cl. 409-132.000.
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  - Szadkowski, Stanislav, 4,669,528, Cl. 164-437.000.
- International Jensen Incorporated: *See*—
  - Buehl, G. Thomas, 4,661,874, Cl. 360-128.000.
  - Powell, Jack R.; and Nation, Melvin S., 4,672,675, Cl. 381-182.000.
- International Laser Systems, Inc.: *See*—
  - Adsett, Anthony P., 4,714,107, Cl. 165-16.00A.
- International Medical Industries, Incorporated: *See*—
  - Vitello, John P.; Routhier, George W.; and McCrory, Daniel F., 4,667,837, Cl. 215-228.000.
- International Metals Reclamation Company, Inc., The: *See*—
  - Olano, Francisco; MacDougall, John A.; and Pargeter, John K., 4,636,127, Cl. 414-158.000.
  - Pargeter, John K., 4,676,741, Cl. 432-142.000.
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  - Holsonbake, David W., 4,699,275, Cl. 209-616.000.
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  - Baumann, Arthur N., 4,640,828, Cl. 423-321.00R.
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  - Hass, D. Kendall, 4,659,713, Cl. 514-249.000.
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  - Michalski, Dennis H.; and Srinivasan, Viswanathan, 4,639,359, Cl. 423-321.00R.
  - Myers-Keith, Paula, 4,707,492, Cl. 514-450.000.
  - Rausch, Steven K.; and Meng, Hsi, 4,677,196, Cl. 530-412.000.
  - Schricker, Brian R., 4,670,248, Cl. 424-19.000.
  - Seely, James E., 4,656,255, Cl. 530-412.000.
  - Shalati, Mohamad D.; and Sivaramakrishnan, Kallidaikurichi N., 4,666,704, Cl. 424-19.000.
  - Williams, Robert D.; Bright, David R.; Young, Vernon V.; and Martin, Jerome L., 4,654,334, Cl. 514-184.000.
  - Yang, Ren-Der; Hamilton, Edwin J., Jr.; and Taber, Larry D., 4,705,848, Cl. 530-399.000.
  - Young, Vernon V., 4,693,992, Cl. 514-11.000.
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  - Paneth, Eric; Critchlow, David N.; and Yehushua, Moshe, 4,644,561, Cl. 375-9.000.
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  - Dechene, Fernand J., 4,698,075, Cl. 55-163.000.
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  - Smith, George N., 4,671,208, Cl. 119-1.000.
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  - Humphrey, John R., 4,693,049, Cl. 53-64.000.
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  - Baxter, Kenneth F., 4,675,051, Cl. 106-16.000.
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Pitt, Gilles D.; Scott, Brian J.; Verreils, Michael V.; Hancock, Nicholas K.; and Extance, Phillip, 4,672,216, Cl. 250-574.000.
Pitt, Gillies D.; Batchelder, David N.; Jones, Roger E.; and Neat, Rosamund C., 4,637,071, Cl. 455-603.000.
Romer, Michael, 4,662,704, Cl. 339-177.00R.
Rossberg, Rolf; and Schmid, Peter, 4,660,972, Cl. 356-73.100.
Sodergard, Bengt, 4,640,666, Cl. 415-121.00B.
Van Simaeys, Francoise C. G.; Leurs, Anna M. C.; Upp, Daniel C.; Lawrence, Alan J.; and Cotton, John M., 4,641,301, Cl. 370-58.000.
Volz, Hans, 4,649,755, Cl. 73-861.780.
Volz, Hans; and Kersten, Peter, 4,659,378, Cl. 420-8.000.
Vyas, Mahesh K. R., 4,671,905, Cl. 264-1.500.
Waddoup, William D.; and Norris, Andrew P., 4,672,387, Cl. 343-781.00P.
Walker, Michael; and Holanda, Ladislav, 4,665,347, Cl. 315-411.000.
Ward, Kevin D., 4,653,844, Cl. 350-96.150.
Whittaker, Edward J. W., 4,640,993, Cl. 379-383.000.
Whittaker, Edward J. W., 4,644,579, Cl. 379-388.000.
International Technidyne Corp.: *See—*
Mintz, Michael D., 4,671,939, Cl. 422-58.000.
International Technology, Inc.: *See—*
Schoenhard, James D., 4,703,867, Cl. 220-85.00F.
International Technology Services, Inc.: *See—*
Schoenhard, James D., 4,660,585, Cl. 134-96.000.
International Teldata Corporation: *See—*
Oliver, Stewart W.; and Cosgrove, John, 4,710,919, Cl. 370-96.000.
International Telephone and Telegraph Corporation: *See—*
Anhalt, John W.; and Cabourne, Michael K., 4,641,903, Cl. 339-99.00R.
Bussard, Anne B.; and Pulfrey, Robert E., 4,643,519, Cl. 350-96.190.
Churchill, William M.; and Walambe, Anil G., 4,653,618, Cl. 188-322.170.
Reed, Joseph, 4,677,690, Cl. 455-207.000.
International Texas Industries, Inc.: *See—*
Smith, Robert E., 4,715,460, Cl. 180-7.100.
International Tool and Supply Company, Inc.: *See—*
Turner, John W., Jr., 4,656,937, Cl. 100-100.000.
International Totalizator Systems, Inc.: *See—*
Brunn, Frederick A.; Hoppe, Edward A.; and Volpini, Paul M., 4,704,518, Cl. 235-480.000.
Roberts, Brian J.; and Watters, James T., 4,677,553, Cl. 364-412.000.
International Waste Water Reclamation Technologies, Inc.: *See—*
Edwards, Richard N., deceased; and Edwards, Richard N., Jr., co-executor, 4,652,382, Cl. 210-752.000.
Internationale Octrooi Maatschappij "Octropa" BV: *See—*
Atkinson, Colin; Brace, Roger; and Burak, Nathan, 4,661,333, Cl. 423-328.000.
Edens, Luppo; Ledeboer, Adrianus; Verrips, Cornelis; and Van den Berg, Johannes A., 4,657,857, Cl. 435-68.000.
Eikelboom, Teunis; Rand, John A.; and van Dijk, Pieter M., 4,655,972, Cl. 260-404.000.
Ganguli, Keshab L.; Nootenboom, Peter; and Lox, Cornelis M., 4,657,889, Cl. 502-335.000.
Klimmek, Helmut; and Klauenberg, Gunter, 4,666,635, Cl. 260-409.000.
Lock, Michael W. B., 4,688,199, Cl. 367-137.000.

May, Keith; Gani, Mohamed M.; and Senior, Stephanie J., 4,659,666, Cl. 435-188.000.
Meili, Hermann, 4,646,862, Cl. 180-19.300.
Meili, Hermann, 4,667,364, Cl. 15-320.000.
Meili, Hermann, 4,674,142, Cl. 15-49.00R.
Oudejans, Johannes C.; Nootenboom, Peter; Ganguli, Keshab L.; and Lok, Cornelis M., 4,683,088, Cl. 260-409.000.
Ranger, Alan E., 4,647,332, Cl. 156-285.000.
Schram, Cornelius J., 4,673,512, Cl. 210-748.000
Sidki, Ahmad M.; and Smith, David S., 4,637,965, Cl. 436-518.000
Smith, Richard D., 4,664,424, Cl. 285-256.000.
Smith, Richard D., 4,684,157, Cl. 285-256.000
Van Leeuwen, Willem A.; Poels, Eduard K.; Staal, Leendert H.; and Verzijl, Dirk, 4,665,048, Cl. 502-221.000.
Wieske, Theophil; Todt, Klaus H.; and Kleibeuker, Johan F., 4,702,928, Cl. 426-607.000.

Internationale Octrooi Maatschappij "Octropa"BV: *See—*
Klimmek, Helmut; and Klauenberg, Gunter, 4,670,416, Cl. 502-259.000.

InterNorth, Inc.: *See—*
Grose, Ronald D., 4,650,138, Cl. 244-130.000.
Lisowyj, Bohdan; and Hitchcock, David C., 4,686,031, Cl. 209-2.000.
White, Geoffrey T., 4,709,750, Cl. 165-10.000.

Interox Chemicals Limited: *See—*
Hutton, Denis A.; and Millar, Malcolm H., 4,707,307, Cl. 260-502.00R.
Sanderson, William R., 4,704,404, Cl. 514-568.000.
Sankey, John P.; and Sanderson, William R., 4,708,236, Cl. 260-402.000.
Williams, John, 4,680,271, Cl. 436-55.000.

Interox(Societe Anonyme): *See—*
Walraevens, Rene ; and Coisne, Jean-Marc, 4,675,131, Cl 260-404.000.

Interpat Limited: *See—*
Sacks, Dieter; and Monch, Hans, 4,663,798, Cl. 15-261.000.
Sacks, Dieter; and Monch, Hans, 4,704,763, Cl. 15-262.000.

Interplastic Corporation: *See—*
Hand, George E.; and Kramer, Roman A., 4,635,563, Cl 108-111.000.
Hand, George E.; and Kramer, Roman A., 4,683,097, Cl. 264-268.000

Interpublic a.s: *See—*
Sondov, Sten Y.; and From, Jan O., 4,681,688, Cl. 210-770.000.

Interquad, Inc.: *See—*
Novak, Warren D., 4,635,565, Cl. 108-147.000.

Interrante, Mario J.: *See—*
Ainslie, Norman G.; Harvilchuck, Joseph M.; Interrante, Mario J.; King, William J., Jr.; Palmateer, Paul H.; and Sullivan, John F., 4,634,638, Cl. 428-671.000.

Interroll Fordertechnik GmbH & Co. KG: *See—*
Specht, Dieter, 4,711,045, Cl. 40-564.000.
vom Stein, Hans, 4,646,909, Cl. 198-460.000.

Interscan, Incorporated: *See—*
Rice, Mark; and Meisner, Douglas, 4,692,006, Cl. 354-75.000.

Intersil, Inc.: *See—*
Doluca, Tunc, 4,639,715, Cl. 340-347.0AD.
Doluca, Tunc; and Boyacigiller, Ziya G., 4,641,129, Cl. 340-347.0AD.
Doluca, Tunc, 4,667,164, Cl. 330-253.000.
Ely, Glenn L., 4,646,331, Cl. 377-47.000.
Ely, Glenn L., 4,703,199, Cl. 307-264.000.
Mostyn, Graham Y.; and Yunus, Mohammad, 4,652,808, Cl 323-222.000.
Mostyn, Graham Y.; and Yunus, Mohammad, 4,661,764, Cl. 323-222.000.
Snow, Dane R.; and Bingham, David, 4,683,528, Cl. 363-21.000.
Thurber, Charles R., Jr., 4,656,459, Cl. 340-347.0NT
Thurber, Charles R., Jr., 4,658,198, Cl. 320-1.000.
Wei, James Y., 4,644,353, Cl. 340-825.830.
Zommer, Nathan, 4,677,452, Cl. 357-23.400.

Interstate Brands Corporation: *See—*
Vanasse, Robert W., 4,709,851, Cl. 229-87.00B.

Intersteel Technology, Inc.: *See—*
Vallomy, John A., 4,681,537, Cl. 432-242.000.

Intertec Associates Inc.: *See—*
Conant, Louis A.; Bolton, Wilbur M.; and Wilson, James E., 4,678,028, Cl. 165-72.000.

Intertech Resources Inc.: *See—*
Gilman, Keith; and Lutz, Bruce W., 4,712,580, Cl. 137-512.150.
Miller, Kenneth G., 4,657,713, Cl. 261-142.000.

Interthal, Werner: *See—*
Ohlendorf, Dieter; Hoffmann, Heinz; Interthal, Werner; and Pintschovius, Ulrich, 4,705,860, Cl. 546-347.000.

Intertherm Inc.: *See—*
Benson, Robert J., 4,633,768, Cl. 98-34.600.
Roth, James E., 4,667,702, Cl. 138-162.000.
Roth, James E., 4,672,818, Cl. 62-239.000.

Interwest Import & Export Company: *See—*
Martin, Eugene W.; and Martin, Robert J., 4,648,639, Cl. 292-167.000.

inTest Corporation: *See—*
Holt, Alyn R.; and Matthiessen, Robert E., 4,715,574, Cl. 248-297.100.
Smith, Nathan R., 4,705,447, Cl. 414-590.000.

Intevep, S.A.: *See—*
Arias, Beatriz; Kum, Humberto; and Galiasso, Roberto, 4,670,13 Cl. 208-111.000.
Fekete, Amnon V., 4,708,597, Cl. 417-259.000.
Galiasso, Roberto E.; Belandria, Jose I.; and Caprioli, Pasquale L., 4,664,782, Cl. 208-143.000.
Garcia, Juan J.; Galiasso, Roberto E.; Ramirez de Agudelo, Magdalena M.; Rivas, Luis; and Hurtado, Juan, 4,701,435, C 502-252.000.
Martinez, Nelson P.; Galiasso, Roberto E.; Velasquez, Jose R. Lujano, Juan; and Zerpa, Carlos, 4,689,314, Cl. 502-210.000.
Martinez, Nelson P.; Valasquez, Jose R.; and Lujano, Juan A. 4,704,375, Cl. 502-64.000.
Morales, Alfredo L.; Galiasso, Roberto; Carrasquel, Angel R.; and Salazar, Jose A., 4,642,179, Cl. 208-217.000.
Rahbe, Georgette; Marzin, Roger; Cavicchioli, Ivan; and Krasuk Julio, 4,655,903, Cl. 208-96.000.
Rahbe, Georgette; Marzin, Roger; Cavicchioli, Ivan; Krasuk, Julio and Solari, Rodolfo B., 4,676,886, Cl. 208-50.000.
Rivas, Olegario, 4,682,655, Cl. 166-369.000.
Rodriguez, Domingo; and Schemel, Roberto, 4,678,557, C 208-112.000.
Vadasz, Amnon F., 4,662,392, Cl. 137-533.110.

Intra-Automation GmbH MESS- und Regelinstrumente: *See—*
Evers, Ernst, 4,703,661, Cl. 73-861.660.

Intra Med Industries Limited: *See—*
Knight, Allan C.; and Moroney, Ronald, 4,655,200, Cl. 128-71.000

Intradym Maschinen AG: *See—*
Egger, Hans R., 4,681,484, Cl. 406-63.000.

Intraspec, Inc.: *See—*
Roth, Philip M.; Itskovitch, Nathan M.; and Sussman, Arth 4,713,894, Cl. 34-30.000.

IntraTechnology Associates, Inc.: *See—*
Fawzy, Moharram M., 4,701,656, Cl. 310-254.000.

Intravascular Surgical Instruments, Inc.: *See—*
Kensey, Kenneth; and Nash, John, 4,664,112, Cl. 128-341.000.
Kensey, Kenneth; and Nash, John, 4,679,558, Cl. 128-328.000.
Kensey, Kenneth; and Nash, John, 4,681,106, Cl. 128-305.000.
Kensey, Kenneth; and Nash, John, 4,700,705, Cl. 128-341.000

Intreprinderea de Utilaj Greu "Progresul" : *See—*
Axinti, Gavril; Arama, Stefanica; Draghici, Ionel; Bratu, Polidor Stanciu, Corneliu; Ghinea, Aurelian; Badulescu, Florin; and Diaconu, Cristian, 4,688,468, Cl. 91-317.000.

Intropa S.A.: *See—*
Berz, Hans-Peter, 4,634,838, Cl. 219-297.000.

Introtek Corporation: *See—*
Dam, Naim, 4,651,555, Cl. 73-19.000.

Inui, Isao; Hosaka, Masato; Nakamoto, Mitsuyoshi; and Okamoto Kenji, to Matsushita Electric Industrial Co., Ltd. Pulse combustion apparatus with a plurality of pulse burners. 4,639,208, 1-27-87, Cl 431-1.000.

Inui, Jun: *See—*
Ao, Hideki; Obata, Minoru; and Inui, Jun, 4,678,785, C 514-222.000.

Inui, Keita: *See—*
Nakayama, Syoichi; Inui, Keita; and Suzuki, Setsuo, 4,673,602, C 428-65.000.

Inui, Masaki; and Ogawa, Shinji, to Toyota Jidosha Kabushiki Kaisha Reverse shift mechanism for automotive manual transmission 4,646,583, 3-3-87, Cl. 74-473.00R.

Inui, Masaki; Horiuchi, Yusuke; and Ogawa, Shinji, to Toyota Jidosha Kabushiki Kaisha. Apparatus for preventing gear buzzing in shifting to reverse. 4,660,434, 4-28-87, Cl. 74-477.000.

Inui, Masaki: *See—*
Horiuchi, Yusuke; and Inui, Masaki, 4,711,135, Cl. 74-473.00R.

Inui, Shuji; and Sano, Yoshio, to Toyoda Gosei Co., Ltd. Steering wheel with tape switch assembly. 4,714,806, 12-22-87, Cl. 200-61.550

Inui, Taiji: *See—*
Ura, Katsumi; Sakka, Kenji; Kouno, Yosimi; and Inui, Taiji, 4,651,533, Cl. 60-678.000.

Inui, Takayasu: *See—*
Matsuda, Yukinobu; and Inui, Takayasu, 4,640,245, Cl. 123-339.000

Inui, Tetsuya: *See—*
Fujii, Yoshikazu; Deguchi, Toshihisa; Inui, Tetsuya; and Yamaoka Hideyoshi, 4,660,190, Cl. 369-44.000.
Fujii, Yoshikazu; Inui, Tetsuya; Deguchi, Toshihisa; and Okuda Tohru, 4,667,315, Cl. 369-44.000.
Fujii, Yosikazu; Inui, Tetsuya; Deguchi, Toshihisa; and Yamaoka Hideyoshi, 4,658,390, Cl. 369-45.000.
Ohta, Kenji; Takahashi, Akira; Inui, Tetsuya; Hyuga, Takao; and Yamaoka, Hideyoshi, 4,634,617, Cl. 428-65.000
Ohta, Kenji; Takahashi, Akira; Inui, Tetsuya; Hyuga, Takao; and Yamaoka, Hideyoshi, 4,658,393, Cl. 369-290.000.

Inui, Tomoyuki, to Showa Shell Sekiyu Kabushiki Kaisha; and Inui Tomoyuki. Conversion process of aromatic hydrocarbon from low molecular paraffin hydrocarbon. 4,704,494, 11-3-87, Cl. 585-417.000

Inui, Tomoyuki, to Showa Shell Sekiyu Kabushiki Kaisha; and Inui Tomoyuki. Production of liquid hydrocarbon from gas containing lower hydrocarbon. 4,705,907, 11-10-87, Cl. 585-415.000.

Inui, Toshiharu; and Moriguchi, Haruhiko, to Fuji Xerox Co., Ltc Method and apparatus for thermal half-tone printing. 4,679,055, 7-7-87, Cl. 46-76.0PH.

Inui, Toshiharu; Moriguchi, Haruhiko; Hisatake, Masayuki; and Ohmori, Takashi, to Fuji Xerox Co., Ltd. Heat storage correction apparatus. 4,685,069, 8-4-87, Cl. 364-506.000.

- , Toshiharu: *See*—
  - Leng, Svay; Saitoh, Hiroyuki; Inui, Toshiharu; Koizumi, Norihiko; Moriguchi, Haruhiko; Omori, Takashi; Kurata, Masami; and Katoh, Yasuo, 4,638,372, Cl. 358-296.000.
  - Moriguchi, Haruhiko; Inui, Toshiharu; Ohmori, Takashi; and Kikuchi, Yoshiki, 4,651,167, Cl. 346-76.0PH.
  - Moriguchi, Haruhiko; Inui, Toshiharu; and Ishida, Yoshihiro, 4,701,811, Cl. 358-298.000.
  - Takahashi, Haruhiko; Inui, Toshiharu; Saitoh, Hiroyuki; Ishikawa, Noriyoshi; Funato, Hitoshi; Ohmori, Takashi; Kurata, Masami; and Katou, Yasuo, 4,709,149, Cl. 250-317.100.
- ishi, Masahide: *See*—
  - Shimano, Hiroki; Shimizu, Masahiro; Tsukamoto, Katsuhiro; and Inuishi, Masahide, 4,702,797, Cl. 156-653.000.
- iya, Masafumi, to Fuji Photo Film Co., Ltd. Solid-state image ickup device with selective output characteristics and imaging pparatus using same. 4,641,169, 2-3-87, Cl. 357-30.000.
- iya, Masafumi, and Tabei, Masatoshi, to Fuji Photo Film Co., Ltd. olid-state image pickup device for producing color-separated video ignals by use of afterimage rise-time. 4,682,212, 7-21-87, Cl. 58-44.000.
- iya, Masafumi: *See*—
  - Ohta, Takahiro; Inuiya, Masafumi; and Fujimura, Ikuo, 4,641,198, Cl. 358-285.000.
  - Ohta, Takahiro; Inuiya, Masafumi; Kobayashi, Kazuyoshi; and Murakami, Takashi, 4,642,700, Cl. 358-285.000.
- ima, Takashi: *See*—
  - Yamazaki, Shunpei; Konuma, Toshimitsu; Hamatani, Toshiji; Mase, Akira; Koyanagi, Kaoru; Imato, Shinji; Yamaguchi, Toshiharu; Sakama, Mitsunori; and Inujima, Takashi, 4,691,995, Cl. 350-331.00R.
- kai, Chyuji; Chino, Eizi; Tojima, Yoshio; Komagata, Hideki; and Nakamura, Masanori, to Toyo Boseki Kabushiki Kaisha. Magnetic ecording medium. 4,666,784, 5-19-87, Cl. 428-425.900.
- kai, Hiroshi: *See*—
  - Fujii, Tsuneo; Inukai, Hiroshi; Deguchi, Takayuki; Amano, Toshihiko; Kakuchi, Masami; Asakawa, Hiroshi; and Kogure, Osamu, 4,686,168, Cl. 430-326.000.
  - Ohmori, Akira; Tomihashi, Nobuyuki; Inukai, Hiroshi; and Nakai, Kazuhiro, 4,638,041, Cl. 526-247.000.
  - Ohmori, Akira; Tomihashi, Nobuyuki; Inukai, Hiroshi; and Izutani, Naoaki, 4,655,807, Cl. 55-522.000.
  - Ohmori, Akira; and Inukai, Hiroshi, 4,667,000, Cl. 526-247.000.
- kai, Kazuo; and Haluyama, Takeshi, to Nippondenso Co., Ltd. Display system for automotive vehicle. 4,635,033, 1-6-87, Cl. 340-2.00F.
- kai, Kazuo: *See*—
  - Nakamura, Kenzi; Honda, Akio; Inukai, Kazuo; and Ito, Yo 4,636,782, Cl. 340-705.000.
- kai, Satoshi: *See*—
  - Taki, Yoshihiro; Akado, Hajime; Funae, Keizo; and Inukai, Satoshi, 4,640,779, Cl. 210-493.500.
- kai, Takashi: *See*—
  - Inoue, Hiromichi; Saito, Shinichi; Terashima, Kanetsugu; Inukai, Takashi; and Furukawa, Kenji, 4,676,925, Cl. 252-299.650.
  - Inoue, Hiromichi; Saito, Shinichi; Miyazawa, Kazutoshi; Inukai, Takashi; and Terashima, Kanetsugu, 4,689,176, Cl. 252-299.650.
  - Saito, Shinichi; Inoue, Hiromichi; Terashima, Kanetsugu; Inukai, Takashi; and Furukawa, Kenji, 4,647,398, Cl. 252-299.650.
  - Saito, Shinichi; Inoue, Hiromichi; Terashima, Kanetsugu; Inukai, Takashi; and Furukawa, Kenji, 4,657,695, Cl. 252-299.610.
  - Saito, Shinichi; Inoue, Hiromichi; Miyazawa, Kazutoshi; Inukai, Takashi; and Terashima, Kanetsugu, 4,668,427, Cl. 252-299.660.
- kai, Yuzo; Naruse, Yasuhito; Nakayama, Takao; and Kaneko, Nobuyoshi, to Fuji Photo Film Co., Ltd. Method for making multilayer light sensitive electron radiation cured coating. 4,647,475, 3-3-87, Cl. 427-44.000.
- umaru, Susumu; Yamauchi, Shigenori; Shibue, Kazuhisa; Sano, Hideo; and Ito, Kiyofumi, to Sumitomo Light Metal Industries, Ltd. High strength material produced by consolidation of rapidly solidified aluminum alloy particulates. 4,676,830, 6-30-87, Cl. 75-249.000.
- umaru, Susumu: *See*—
  - Yoshida, Masahiro; and Inumaru, Susumu, 4,694,888, Cl. 164-467.000.
- uyama, Toshihiko, to Canon Kabushiki Kaisha. Laser beam recorder having synchronized scanner and drum operations. 4,647,946, 3-3-87, Cl. 346-108.000.
- uzuka, Hideo: *See*—
  - Emoto, Masami; Gotoh, Hiroshi; and Inuzuka, Hideo, 4,683,559, Cl. 369-44.000.
  - Emoto, Masami; and Inuzuka, Hideo, 4,684,799, Cl. 250-201.000.
  - Emoto, Masami; and Inuzuka, Hideo, 4,687,916, Cl. 250-201.000.
- uzuka, Shozin, and Yamashita, Shuji, to NGK Spark Plug Co., Ltd. Resonating knock sensor. 4,704,894, 11-10-87, Cl. 73-35.000.
- uzuka, Tatsuki: *See*—
  - Tadauchi, Masaharu; Inuzuka, Tatsuki; Hirane, Hideo; and Sato, Kunio, 4,654,677, Cl. 346-153.100.
- uzuka, Tsuneki; Kawatsura, Yoshihiro; and Ishida, Masato, to Canon Kabushiki Kaisha. Image formation apparatus including means for manually and automatically feeding copy therethrough. 4,707,111, 11-17-87, Cl. 355-8.000.
- uzuka, Tsuneki: *See*—
  - Komiya, Yutaka; Murakami, Katsumi; Inuzuka, Tsuneki; and Sakamaki, Hisashi, 4,671,647, Cl. 355-14.00R.
  - Saito, Takashi; Nitanda, Hiroshi; Inuzuka, Tsuneki; Tokuhara, Mitsuhiro; and Honda, Haruhisa, 4,702,586, Cl. 355-3.00R.
  - Yagasaki, Toshiaki; Kuroda, Kouki; and Inuzuka, Tsuneki, 4,656,338, Cl. 219-497.000.
- Inuzuka, Yutaka: *See*—
  - Mochizuki, Hiroyuki; Kobayashi, Nobuo; Inuzuka, Yutaka; Aiba, Shigeo; and Nishi, Setsuo, 4,683,769, Cl. 74-422.000.
- Invacare Corporation: *See*—
  - Kaiser, Robert T.; Curran, Neal J.; and Wakefield, Theodore D., II, 4,671,257, Cl. 128-25.00R.
  - Klimo, Robert G., 4,634,941, Cl. 318-139.000.
- Inventa Electronics Co., Ltd.: *See*—
  - Yeh, Kou-I, 4,644,106, Cl. 379-375.000.
- Inventio AG: *See*—
  - Feldmann, Hansueli; and Brandli, Max, 4,635,982, Cl. 293-2.000.
  - Haas, Max, 4,711,323, Cl. 187-52.00R.
  - Lunardi, Gerhard, 4,638,901, Cl. 198-323.000.
  - Meyer, Fritz, 4,654,657, Cl. 340-825.800.
  - Schroder, Joris; Kiml, Jiri; and Meyer, Fritz, 4,655,325, Cl. 187-127.000.
  - Schroder, Joris, 4,700,846, Cl. 211-41.000.
  - Schroder, Joris, 4,711,324, Cl. 187-135.000.
  - Schrooder, Joris, 4,708,224, Cl. 187-122.000.
  - Stanyard, Ray; and Liechti, Hansruedi, 4,671,390, Cl. 187-120.000.
  - Streibig, Kurt; and Buelke, Gerhart, 4,646,907, Cl. 198-335.000.
- Inventive Machine Corporation: *See*—
  - Williams, Raymond F., 4,646,480, Cl. 51-424.000.
- Inventive Packaging Corporation: *See*—
  - Cooke, Carl W., 4,706,837, Cl. 220-270.000.
- Inverko Industrie Vertriebs Kontor GmbH & Co., KG: *See*—
  - Nicolau, Claude; and Raimond, Jacques, 4,716,114, Cl. 435-172.300.
- Inverness Corporation: *See*—
  - Mann, Samuel J., 4,671,305, Cl. 132-73.000.
- Inverni Della Beffa S.p.A.: *See*—
  - Bombardelli, Ezio; Gabetta, Bruno; and Magistretti, Maria J., 4,636,569, Cl. 549-403.000.
- Inverni Della Beffa SpA: *See*—
  - Bombardelli, Ezio; Gabetta, Bruno; and Conti, Marisa, 4,709,076, Cl. 560-55.000.
- Invernizzi, Attilio: *See*—
  - Magnani, Francesco; and Invernizzi, Attilio, 4,703,135, Cl. 174-135.000.
- Invernizzi, Renzo; and Marcato, Federico, to Enichimica Secondaria S.p.A. Method for the polymerization of ethylene and for the copolymerization of ethylene with alpha-olefins and catalysts for use in the method. 4,663,404, 5-5-87, Cl. 526-114.000.
- Invernizzi, Rutilio; and Montesissa, Giancarlo, to Nestec S.A. Method for shaping and packaging a plurality of spreadable food products. 4,666,723, 5-19-87, Cl. 426-414.000.
- Investment Rarites, Incorporated: *See*—
  - Burandt, Corliss O., 4,638,772, Cl. 123-90.600.
- Investment Rarities, Incorporated: *See*—
  - Burandt, Corliss O., 4,683,848, Cl. 123-90.600.
- Ioannides, Gregor, to Grundig E.M.V. Elektro-Mechanische Versuchsantalt Max Grundig holland.Stiftung & Co. KG. Device for optical turbidity measuring of gases. 4,713,964, 12-22-87, Cl. 73-116.000.
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Irwin, Charles F.; Karpusiewicz, William; and Liberati, Patricia, to Lever Brothers Company. Preparation of bleach catalyst aggregates of manganese cation impregnated aluminosilicates by high velocity granulation. 4,711,748, 12-8-87, Cl. 264-117.000.

Irwin, Charles F.: *See—*
  McCallion, Elizabeth J.; Karpusiewicz, William; and Irwin, Charles F., 4,655,782, Cl. 8-111.000.
Irwin Company, The: *See—*
  Williams, A. Graves, III; and Thackston, Ronald L., 4,682,917, Cl. 408-212.000.
Irwin, David; La Plante, Mark T.; and Graham, David R., to Cannondale Corporation. Bicycle rear carrier rack. 4,666,071, 5-19-87, Cl. 224-39.000.
Irwin, Everett F.; and Walle, Irwin, to Dynacycle Corporation. Air motor having instant torque and low air consumption. 4,688,471, 8-25-87, Cl. 91-482.000.
Irwin, Jere F.; Doornink, John R.; and Roberts, Clive J., to Irwin Research & Development, Inc. Apparatus for comminuting waste materials. 4,687,144, 8-18-87, Cl. 241-49.000.
Irwin, John W., to International Business Machines Corporation. Processor I/O and interrupt filters allowing a co-processor to run software unknown to the main processor. 4,695,945, 9-22-87, Cl. 364-200.000.
Irwin, John W., to International Business Machines Corporation. System for arbitrating use of I/O bus by co-processor and higher priority I/O units in which co-processor automatically request bus access in anticipation of need. 4,703,420, 10-27-87, Cl. 364-200.000.
Irwin, Lawrence: *See—*
  Anderson, Paul T.; Irwin, Lawrence; Matthews, John C., and Paugh, Charles E., 4,679,378, Cl. 53-405.000.
  Anderson, Paul T.; Irwin, Lawrence; Matthews, John C.; and Paugh, Charles E., 4,694,634, Cl. 53-88.000.
Irwin, Lawrence F. Waste line cleanout apparatus. 4,686,732, 8-18-87, Cl. 15-104.3SN.
Irwin Magnetic Systems, Inc.: *See—*
  Irwin, Samuel N.; Lum, Francis; Bolt, Michael L.; Henke, Steven E.; Sokolik, Edmund L.; and Chambors, John M., 4,647,994, Cl. 360-85.000.
  Sokolik, Edmund L., and Lum, Francis, 4,646,175, Cl. 360-73.000.
Irwin Measuring Tool Company: *See—*
  Pakus, Edward, 4,654,977, Cl. 33-366.000.
Irwin Research & Development, Inc.: *See—*
  Irwin, Jere F.; Doornink, John R.; and Roberts, Clive J., 4,687,144, Cl. 241-49.000.
Irwin, Robert H.: *See—*
  Plovanich, Charles J.; Ossont, Guy H.; King, Keith C.; Irwin, Robert H.; and Knoop, Walter V., 4,683,814, Cl. 100-37.000.
Irwin, Robert S., to Du Pont de Nemours, E. I., and Company. Filament of polyimide from pyromellitic acid dianhydride and 3,4'-oxydianiline. 4,640,972, 2-3-87, Cl. 528-188.000.
Irwin, Samuel N.; Lum, Francis; Bolt, Michael L.; Henke, Steven E.; Sokolik, Edmund L.; and Chambors, John M., to Irwin Magnetic Systems, Inc. Miniaturized cartridge-type tape drive for data processors. 4,647,994, 3-3-87, Cl. 360-85.000.
Irzinski, Edward P.; Krill, Jerry A.; and Zinger, William H., to Johns Hopkins University, The. Sharp mode-transducer bend for overmoded waveguide. 4,679,008, 7-7-87, Cl. 333-21.00R.
Isa, Isao: *See—*
  Ebisawa, Makoto; Shindo, Shuko; Hashizume, Kenichi; and Isa, Isao, 4,688,153, Cl. 361-433.000.
Isa, Takayoshi: *See—*
  Uno, Nobuyoshi; Isa, Takayoshi; Kurata, Eijiro; and Tamasaki, Hidetoshi, 4,659,267, Cl. 411-5.000.
Isaacs, Theodore M.: *See—*
  Wittmann, Alois; Isaacs, Theodore M.; and Murphy, John R., 4,679,752, Cl. 244-158.00R.
Isaacson, David: *See—*
  Jiang, Jack B.; and Isaacson, David, 4,656,274, Cl. 544-250.000.
Isaacson, Jerry. Removable lightweight roof opening covers for vehicles. 4,639,035, 1-27-87, Cl. 296-218.000.
Isaacson, Michael; and Lewis, Aaron, to Cornell Research Foundation, Inc. Method and apparatus for production and use of nanometer scale light beams. 4,659,429, 4-21-87, Cl. 156-644.000.
Isaacson, Michael; and Lewis, Aaron, to Cornell Research Foundation, Inc. Method and apparatus for production and use of nanometer scale light beams. 4,662,747, 5-5-87, Cl. 356-317.000.
Isaacson, Philip O., to Aequitron Medical, Inc. Tocodynamometer. 4,640,295, 2-3-87, Cl. 128-748.000.
Isaacson, Philip O.: *See—*
  Coulter, Thomas R.; Isaacson, Philip O.; and Thiede, Edwin C., 4,707,697, Cl. 342-25.000.
Isabe, Hiroko: *See—*
  Saito, Fumitaka; and Isabe, Hiroko, 4,665,606, Cl. 29-448.000.
Isabell, James T. Adjustable flex golf club. 4,685,682, 8-11-87, Cl. 273-162.00R.
Isaberg AB: *See—*
  Westerlund, Bengt A., 4,709,842, Cl. 227-120.000.
Isago, Terashi: *See—*
  Niino, Masayuki; Yatsuyanagi, Nobuyuki; Kumakawa, Akiraga; Suzuki, Akio; Gomi, Hiromi; Sakamoto, Hiroshi; Sasaki, Masaki; Masuda, Yoshimichi; Watanabe, Ryuzo; Takekawa, Junjiro; Ohtsuki, Etsuo; and Isago, Terashi, 4,703,620, Cl. 60-260.000.
Isahaya, Keiji, to Mitsubishi Denki Kabushiki Kaisha. Digital distance relay. 4,689,709, 8-25-87, Cl. 361-80.000.
Isaka, Kazuo, to Canon Kabushiki Kaisha. Process kit and an image formation apparatus using the process kit. 4,639,119, 1-27-87, Cl. 355-3.0DD.
Isaka, Kazuo, to Canon Kabushiki Kaisha. Information processing apparatus used in a magneto-optical information recording-reproducing apparatus and having improved erasing capability. 4,686,661, 8-11-87, Cl. 369-13.000.
Isaka, Masayoshi: *See—*
  Nakamura, Kiyoshi; Isaka, Masayoshi; and Uchiyama, Toyoharu, 4,689,530, Cl. 318-135.000.
Isaka, Tsutomu: *See—*
  Ishino, Iwao; Ohno, Akihiko; and Isaka, Tsutomu, 4,689,369, Cl. 525-288.000.
Isaki, Mikio; Shibata, Masanori; and Harada, Norikazu, to Pioneer Electronic Corporation. Cassette loading mechanism for cassette deck. 4,689,701, 8-25-87, Cl. 360-96.600.
Isakov, Edmund: *See—*
  Hallissy, Robert P.; Isakov, Edmund; Stephenson, Earle W.; and Rowlett, Don C., 4,715,450, Cl. 172-701.300.
Isakozawa, Shigeto: *See—*
  Nomura, Setsuo; and Isakozawa, Shigeto, 4,680,469, Cl. 250-311.000.
  Nomura, Setsuo; Kubozoe, Morioki; and Isakozawa, Shigeto, 4,698,503, Cl. 250-311.000.
Isaksen, Robert A.: *See—*
  Jones, Wallace R., and Isaksen, Robert A., 4,696,848, Cl. 428-80.000.
Isakson, Gary A.; and Larson, Curtis L., to Minnesota Mining and Manufacturing Company. Self-venting vapor-tight microwave oven package. 4,640,838, 2-3-87, Cl. 426-107.000.
Isaksson, Bertil; and Steiding, Lennart. Device for restricting rolling of cylindrical objects. 4,653,967, 3-31-87, Cl. 410-49.000.
Isaksson, Karl B., to Santrade Limited. Drill for generating a hole in a work piece. 4,669,931, 6-2-87, Cl. 408-206.000.
Isaksson, Karl B., and Svahn, Bror G. K., to Santrade Limited. Drill for generating of holes in a work piece. 4,712,952, 12-15-87, Cl. 408-211.000.
Isaman, David L.: *See—*
  Bell, John L.; Isaman, David L.; and Osman, Fazil I., 4,637,014, Cl. 370-89.000.
Isao, Matsuura; Kobayashi, Masanori; and Wakatsuki, Akira, to Sumitomo Chemical Company, Limited. Polyvinyl chloride resin compositions for molding. 4,659,764, 4-21-87, Cl. 524-399.000.
Isao, Nagasawa, to Murata Kikai Kabushiki Kaisha. Device for supplying packages to warper creels. 4,669,942, 6-2-87, Cl. 414-331.000.
Isayama, Katsuhiko; Hirose, Toshifumi; Iwahara, Takahisa; and Kawakubo, Fumio, to Kanegafuchi Chemical Industry Co., Ltd. Curable resinous composition comprising epoxy resin and silicon-containing elastomeric polymer. 4,657,986, 4-14-87, Cl. 525-407.000.
Isayama, Katsuhiko: *See—*
  Hirose, Toshifumi; and Isayama, Katsuhiko, 4,665,127, Cl. 525-100.000.
  Kawakubo, Fumio; Takanoo, Miyako; Yukimoto, Sadao; and Isayama, Katsuhiko, 4,687,818, Cl. 525-404.000.
  Sasaki, Makoto; Yamakawa, Masaki; Hirose, Toshifumi; and Isayama, Katsuhiko, 4,707,526, Cl. 525-404.000.
Isayama, Muneo; and Midorikawa, Shoichi, to Ise Kagaku Kogyo Kabushiki Kaisha. Quantitative continuous feeding method for iodine. 4,705,221, 11-10-87, Cl. 241-27.000.
Isayama, Takuro: *See—*
  Ameyama, Minoru; Isayama, Takuro; Yamazaki, Hiroshi; Matsumoto, Shuzo; Katano, Yasuo; and Iwasaki, Kyuhachiro, 4,673,955, Cl. 346-140.00R.
Isban, Elliot; Stephenson, Charles F.; and Cook, Robert F., to Isban, Elliot. Quick connect power tap system. 4,645,286, 2-24-87, Cl. 339-125.00L.
Isban, Elliot. Quick connect power tap system. 4,645,289, 2-24-87, Cl. 339-190.000.
Isbell, Michael S. Cooking unit. 4,688,542, 8-25-87, Cl. 126-25.00A.
Isbell, Tim D.; and Davis, Walter R., to National Semiconductor Corporation. Pulse width modulator circuit for switching regulators. 4,634,892, 1-6-87, Cl. 307-265.000.
Isbell, Wayne: *See—*
  Kastendieck, William A.; Hart, Richard T.; and Isbell, Wayne, 4,697,783, Cl. 248-900.000.
ISC Cardion Electronics Corporation: *See—*
  Schwab, Carl; Odegaard, Oliver C.; and Tussosov, Wassil D., 4,689,623, Cl. 342-39.000.
ISC Cardion Electronics, Inc.: *See—*
  Hanulec, Joseph, 4,683,565, Cl. 370-69.100.
  Schwab, Carl, 4,712,108, Cl. 342-26.000.
  Schwab, Carl E., 4,688,046, Cl. 342-456.000.
ISC Technologies, Inc.: *See—*
  Farmer, James R., 4,638,736, Cl. 102-393.000.
Iscar Ltd.: *See—*
  Elka, Shmuel; and Satran, Amir, 4,708,537, Cl. 407-46.000.
  Teets, Bradley, 4,682,420, Cl. 33-626.000.
Ischi, Jurg, to BBC Brown, Boveri & Company, Limited. Compressed gas switch. 4,665,288, 5-12-87, Cl. 200-147.00R.
Ischi, Jurg; and Plessl, Andreas, to BBC Brown, Boveri & Company, Limited. Gas-blast circuit breaker. 4,675,484, 6-23-87, Cl. 200-146.00R.
Isco, Inc.: *See—*
  Allington, Robert W., 4,659,934, Cl. 250-458.100.
  Allington, Robert W.; and Hull, John D., 4,673,334, Cl. 417-53.000.
  Allington, Robert W., 4,709,190, Cl. 315-307.000.
Ise Electronics Corporation: *See—*
  Kobayashi, Masaaki; Okubo, Yosiyuki; and Tatsuda, Kazunori, 4,692,663, Cl. 313-495.000.
  Uemura, Sashiro; and Iwade, Motoo, 4,688,030, Cl. 340-781.000.

Ise Kagaku Kogyo Kabushiki Kaisha: *See—*

Isayama, Muneo; and Midorikawa, Shoichi, 4,705,221, Cl. 241-27.000.

Ise, Masahiro; Tanaka, Hidehiko; Machino, Katsuyuki; Matsubara, Toshiyuki; and Terasaka, Teiji, to Sharp Kabushiki Kaisha. Data transmission system over building wiring. 4,675,668, 6-23-87, Cl. 340-825.080.

Ise, Taichiro; Yamamoto, Kazuyuki; and Ogawa, Hiroyo, to NEC Corporation, and Nippon Telegraph and Telephone Corporation. Hot standby communications system. 4,700,348, 10-13-87, Cl. 371-8.000.

Ise, Yoji, to Myotoku Ltd. Ejector pump having pressure operated motive fluid valve and electromagnetic change-over valve. 4,655,692, 4-7-87, Cl. 417-187.000.

Ise, Yoji; Kanno, Teruo; and Yamaguchi, Akira, to Myotoku Ltd. Vacuum valve-sensor device. 4,687,021, 8-18-87, Cl. 137-526.000.

Ise, Yukihiko: *See—*

Ueshiba, Nozomu; Fukada, Tetsuji; and Ise, Yukihiko, 4,685,767, Cl. 350-255.000.

Iseger, Frank: *See—*

Keady, William M.; Iseger, Frank; and Maidment, Barry, 4,656,817, Cl. 53-520.000.

Iseki & Co. Ltd.: *See—*

Tamura, Kazuhisa; Watanabe, Hideo; and Shimiza, Akihiro, 4,685,529, Cl. 180-89.120.

Iseki, Hidemi: *See—*

Tanaka, Yutaka; and Iseki, Hidemi, 4,704,545, Cl. 307-236.000.

Iseki, Katsuhiko: *See—*

Morinaka, Yasuhiro; Iseki, Katsuhiko; Kanayama, Toshiji; Watanabe, Toshiaki; and Nishi, Hiroyoshi, 4,668,677, Cl. 514-248.000.

Shibasaki, Masakatsu; Sodeoka, Mikiko; Ogawa, Yuji; Mase, Toshiaki; Ishibashi, Akira; Horii, Daijiro; Kanayama, Toshiji; Iseki, Katsuhiko; Shinoda, Masaki; Ishiyama, Chiyoko; and Hayashi, Yoshio, 4,699,921, Cl. 514-530.000.

Iseki, Masahide; Yoshiyama, Toshio; Kajita, Hiroshi; Itakiyo, Masanori; Kusumoto, Hiroshi; Kawamori, Yoshizo; and Kawamoto, Masuo, to Mita Industrial Co., Ltd. Electrostatic copying apparatus with unitized components for ease of maintenance. 4,668,076, 5-26-87, Cl. 355-15.000.

Iseki, Masahide; Yoshiyama, Toshio; Kajita, Hiroshi; Itakiyo, Masanori; Kusumoto, Hiroshi; Kawamori, Yoshizo; and Kawamoto, Masuo, to Mita Industrial Co., Ltd. Device for fixing a toner image in an electrostatic copying apparatus. 4,674,859, 6-23-87, Cl. 355-3.0FU.

Iseki, Masahide; Yoshiyama, Toshio; Kajita, Hiroshi; Itakiyo, Masanori; Kusumoto, Hiroshi; Kawamori, Yoshizo; and Kawamoto, Masuo, to Mita Industrial Co., Ltd. Copying paper feed device for an electrostatic copying apparatus. 4,685,792, 8-11-87, Cl. 355-3.0SH.

Iseki, Takeo, to Tomy Kogyo Co., Inc. Automated game panel. 4,691,921, 9-8-87, Cl. 273-85.00B.

Iseki, Yuji: *See—*

Nakahara, Akihiko; Takata, Kuniaki; and Iseki, Yuji, 4,680,355, Cl. 526-243.000.

Iseki, Yukito: *See—*

Ogasawara, Toshitaka; Nohmi, Kazumasa; Honmoh, Masao; and Iseki, Yukito, 4,695,763, Cl. 313-487.000.

Iseler, Gerald W.; and Ahern, Brian S., to United States of America, Air Force. Telescoping low vibration pulling mechanism for Czochralski crystal growth. 4,662,860, 5-5-87, Cl. 464-162.000.

Iseli, James W.: *See—*

Robinson, Eugene A.; Sharpe, Claude A.; Iseli, James W.; Valella, Julio E.; and Liu, Kuen-Yu, 4,651,282, Cl. 364-443.000.

Iseman, Walter J. Fuel system bubble dissipation device. 4,704,070, 11-3-87, Cl. 417-80.000.

Isenberg, Arnold O., to Westinghouse Electric Corp. Bipolar plating of metal contacts onto oxide interconnection for solid oxide electrochemical cell. 4,648,945, 3-10-87, Cl. 204-15.000.

Isenberg, Arnold O., to Westinghouse Electric Corp. Fuel cell arrangement. 4,664,987, 5-12-87, Cl. 429-31.000.

Isenberg, Arnold O.; and Ruka, Roswell J., to Westinghouse Electric Corp. Protective interlayer for high temperature solid electrolyte electrochemical cells. 4,692,274, 9-8-87, Cl. 252-521.000.

Isenberg, Arnold O., to Westinghouse Electric Corp. Sulfur tolerant composite cermet electrodes for solid oxide electrochemical cells. 4,702,971, 10-27-87, Cl. 429-31.000.

Isenmaan, Drahterzeugnisse GmbH: *See—*

Schmidt, Gerhard; and Lehmann, Wolfgang, 4,670,136, Cl. 209-403.000.

Isenring, Hans P.: *See—*

Furlenmeier, Andre; Hofheinz, Werner; Hubschwerlen, Christian N.; and Isenring, Hans P., 4,652,651, Cl. 548-194.000.

Iseto Shiko Co. Ltd.: *See—*

Kotani, Ryuichi, 4,668,212, Cl. 493-216.000.

Isetron Industrie-und Sicherheits-Elektronik GmbH: *See—*

Pitter, Andreas; and Stenkamp, Werner, 4,697,798, Cl. 267-70.000.

ISF, S.p.A.: *See—*

Pinza, Mario; Farina, Carlo; Banfi, Silvano; and Pfeiffer, Ugo, 4,703,054, Cl. 514-386.000.

ISG AG: *See—*

Larsson, Karl O. A. H., 4,687,466, Cl. 604-82.000.

Ishak, Waguih; and Chang, Kok W., to Hewlett-Packard Company. Magnetostatic wave resonator capable of batch processing. 4,652,338, 3-24-87, Cl. 156-659.100.

Isham, Barbara K. Articles of bedding with stretch fit ends. 4,672,702, 6-16-87, Cl. 5-497.000.

Isherwood, Jonathan M.; and Gibbs, Andrew R., to NCR Corporation. Data input system including a keyboard having no moving parts. 4,701,747, 10-20-87, Cl. 340-365.00P.

Ishi, Yuuhei; and Nakamura, Hideki, to NEC Corporation. Method of implementing burst acquisition control in TDMA system. 4,688,217, 8-18-87, Cl. 370-104.000.

Ishi, Yuuhei: *See—*

Hotta, Toshinori; and Ishi, Yuuhei, 4,656,619, Cl. 370-13.000.

Ishibai, Isao, to Hoya Corporation. Binocular optical system with automatic focusing mechanism. 4,650,297, 3-17-87, Cl. 350-556.000.

Ishibane, Kyuhei: *See—*

Oguni, Kensaku; Ishibane, Kyuhei; Kuroda, Shigeaki; Yasuda, Hiromu; Sano, Takashi; and Etou, Hironori, 4,706,469, Cl. 62-222.000.

Ishibashi, Akira: *See—*

Sato, Masahiko; Kato, Kazutoshi; Ishibashi, Akira; and Matsushita, Tsurumasa, 4,691,154, Cl. 318-696.000.

Sekiya, Tetsuo; Tsutsui, Mikio; Horii, Daijiro; and Ishibashi, Akira, 4,668,682, Cl. 514-259.000.

Shibasaki, Masakatsu; Sodeoka, Mikiko; Ogawa, Yuji; Mase, Toshiaki; Ishibashi, Akira; Horii, Daijiro; Kanayama, Toshiji; Iseki, Katsuhiko; Shinoda, Masaki; Ishiyama, Chiyoko; and Hayashi, Yoshio, 4,699,921, Cl. 514-530.000.

Ishibashi, Haruo: *See—*

Nakagaki, Tomonari; Sekimoto, Yoshiharu; Ishii, Mamoru; and Ishibashi, Haruo, 4,670,206, Cl. 264-87.000.

Ishibashi, Hideyuki: *See—*

Takamiya, Kikuzo; and Ishibashi, Hideyuki, 4,682,509, Cl. 74-551.400.

Takamiya, Kikuzo; Ishibashi, Hideyuki; and Kozakae, Kunitoshi, 4,697,469, Cl. 74-117.000.

Takamiya, Kikuzo; Ishibashi, Hideyuki; and Kozakae, Kunitoshi, 4,712,450, Cl. 74-750.00B.

Ishibashi, Hiromichi: *See—*

Wakabayashi, Noriaki; and Ishibashi, Hiromichi, 4,669,073, Cl. 396-45.000.

Ishibashi, Hiroshi: *See—*

Shirai, Hideaki; Chiba, Kimio; Okawa, Koji; Ishibashi, Hiroshi; Ishii, Akihiro; Itoh, Hirotaka; Kuzushita, Hirokazu; Yoshioka, Michihiko; and Hirose, Michio, 4,695,515, Cl. 428-458.000.

Ishibashi, Hiroyuki: *See—*

Ishii, Mitsuru; Akiyama, Seikichi; and Ishibashi, Hiroyuki, 4,687,683, Cl. 427-160.000.

Ishibashi, Ichiro: *See—*

Enomoto, Masayuki; Ishibashi, Ichiro; Yamashita, Sachihiro; Ichinose, Kiyohiro; and Kano, Toshiharu, 4,667,386, Cl. 29-157.00R.

Ishibashi, Jiro: *See—*

Goto, Sumio; Ishibashi, Jiro; and Nemoto, Masakazu, 4,682,554, Cl. 112-262.100.

Ishibashi, Kiyoshi; and Ukai, Yujiro, to Aisin Seiki Kabushiki Kaisha. Refrigerating system. 4,700,545, 10-20-87, Cl. 62-6.000.

Ishibashi, Masanori, deceased (by Ishibashi, Masayuki, legal representative), to Casio Computer Co., Ltd. Electronic musical instrument. 4,658,691, 4-21-87, Cl. 84-1.190.

Ishibashi, Masashi: *See—*

Nakamura, Koichi; Ishibashi, Masashi; Kameda, Hideki; and Makiyo, Minoru, 4,699,743, Cl. 264-104.000.

Ishibashi, Masayuki, legal representative: *See—*

Ishibashi, Masanori, deceased, 4,658,691, Cl. 84-1.190.

Ishibashi, Nobuyuki: *See—*

Kiuchi, Masao; Ito, Yoshiaki; Ishibashi, Nobuyuki; and Yamada, Kazuo, 4,701,368, Cl. 428-233.000.

Ishibashi, Sadao, to Mazda Motor Corporation. Rear seat apparatus for automobile. 4,657,297, 4-14-87, Cl. 296-63.000.

Ishibashi, Shizuka: *See—*

Kodama, Takuma; Takahashi, Kenji; Ishibashi, Shizuka; Kudo, Koji; Masuda, Yukihiro; Hombough, Masanori; Miyoshi, Osamu; and Yoshiwara, Kazuhisa, 4,649,421, Cl. 358-51.000.

Masuda, Yukihiro; Ishibashi, Shizuka; Takahashi, Kenji; Kodama, Takuma; Kudo, Koji; and Hombough, Masanori, 4,647,822, Cl. 315-386.000.

Ishibashi, Shozo: *See—*

Naoe, Masahiko; and Ishibashi, Shozo, 4,690,744, Cl. 204-192.110.

Ishibashi, Takao: *See—*

Nakano, Jiro; Ishibashi, Takao; Akatsuka, Takao; and Takata, Mamoru, 4,655,182, Cl. 123-440.000.

Nakano, Jiro; Ishibashi, Takao; Akatsuka, Takao; and Kawaguchi, Masao, 4,694,809, Cl. 123-489.000.

Ishibashi, Tamotu: *See—*

Aso, Toshiyuki; and Ishibashi, Tamotu, 4,705,932, Cl. 219-69.00V.

Aso, Toshiyuki; and Ishibashi, Tamotu, 4,711,981, Cl. 219-69.00W.

Ishibashi, Tokujiro, to Nippon Rubber Co. Ltd. Antistatic shoe. 4,689,900, 9-1-87, Cl. 36-103.000.

Ishibashi, Toru, to Diesel Kiki Co., Ltd. Fuel injection valve for internal combustion engines. 4,635,854, 1-13-87, Cl. 239-533.800.

Ishibashi, Toru: *See—*

Taira, Shigeo; and Ishibashi, Toru, 4,635,599, Cl. 123-300.000.

Taira, Shigeo; and Ishibashi, Toru, 4,655,183, Cl. 123-449.000.

Ishibashi, Yoji: *See—*

Iizuka, Nobuyuki; Hisano, Katsukuni; Wada, Katsuo; Kunihiro, Masashi; Hirose, Fumiyuki; Ishibashi, Yoji; Sato, Isao; Arai, Osamu; Inose, Hiroshi; and Sakuda, Osamu, 4,677,822, Cl. 60-39.230.

Iizuka, Nobuyuki; Hisano, Katsukuni; Oshima, Ryoichiro; Wada, Katsuo; Hirose, Fumiyuki; Kuroda, Michio; Uchiyama, Yo-

shihiro; Ishibashi, Yoji; Sato, Isao; and Inose, Hiroshi, 4,683,715, Cl. 60-39.060.
Iizaka, Nobuyuki; Hirose, Fumiyuki; Sato, Isao; and Ishibashi, Yoji, 4,704,869, Cl. 60-751.000.
Sato, Isao; Ishibashi, Yoji; Tamura, Zensuke; Ohmori, Takashi; Minakawa, Yoshimitsu; Fujimura, Hidekazu; and Uchiyama, Yoshihiro, 4,671,069, Cl. 60-737.000.
Ishibashi, Yuzuru: *See—*
Nomura, Junji; Ishibashi, Yuzuru; and Kaneda, Akira, 4,666,883, Cl. 502-402.000.
Ishibe, Hideomi: *See—*
Shirai, Norio; Kishimoto, Jotaro; Noguchi, Yukihide; Ishibe, Hideomi; and Nagai, Kiyoshi, 4,662,915, Cl. 55-511.000.
Ishida, Akira; Yumen, Akira; and Saito, Naotada, to Dainippon Screen Mfg. Co., Ltd. Method and apparatus for reproducing color separation picture image. 4,646,144, 2-24-87, Cl. 358-75.000.
Ishida, Atsushi: *See—*
Nagahiro, Kenichi; Ishida, Atsushi; and Kajiwara, Shigemasa, 4,656,977, Cl. 123-90.160.
Ishida, Guchi: *See—*
Nojiri, Yuukou; Ishizaki, Kosho; Ishida, Guchi; and Inamura, Junshiro, 4,644,232, Cl. 318-66.000.
Ishida, Haruhiko: *See—*
Kohyama, Mitsuaki; Kasai, Toshihiro; Ishida, Haruhiko; and Shimazaki, Takashi, 4,645,330, Cl. 355-14.00R.
Kohyama, Mitsuaki; Ishida, Haruhiko; Kasai, Toshihiro; and Osawa, Shigenobu, 4,647,181, Cl. 355-4.000.
Oda, Goro; and Ishida, Haruhiko, 4,664,504, Cl. 355-15.000.
Ishida, Hidekuni: *See—*
Takahashi, Kouichi; Ishida, Hidekuni; and Yonezawa, Toshio, 4,667,218, Cl. 357-63.000.
Ishida, Hideo; Tanaka, Ryoichi; and Atsumi, Katsuhito, to Nippondenso Co., Ltd. Lighting control apparatus for signal lights. 4,700,172, 10-13-87, Cl. 340-81.00R.
Ishida, Hiroaki, to Seiko Koki Kabushiki Kaisha. Electromagnetically releasable shutter for a camera. 4,650,306, 3-17-87, Cl. 354-234.100.
Ishida, Hiroaki: *See—*
Ogihara, Masuo; Ishida, Hiroaki; Nagaoka, Shinji; and Sato, Koji, 4,634,254, Cl. 354-403.000.
Ishida, Hiroshi: *See—*
Kobari, Katsuo; and Ishida, Hiroshi, 4,680,525, Cl. 318-798.000.
Ishida, Hisao, to Isuzu Motors, Ltd. Clutch mechanism for automobile. 4,633,992, 1-6-87, Cl. 192-85.00C.
Ishida, Katsuhiko; Nojima, Masaharu; and Okamoto, Tosaku, to Kanzaki Paper Manufacturing Co., Ltd. Heat and light-sensitive recording materials with diazonium compound, coupler, and heat fusible amidine or diamidine compound. 4,652,512, 3-24-87, Cl. 430-179.000.
Ishida, Katsuhiko; Nojima, Masaharu; and Okamoto, Tosaku, to Kanzaki Paper Manufacturing Co. Ltd. Heat-sensitive recording diazo material with recording sensitizer. 4,659,643, 4-21-87, Cl. 430-157.000.
Ishida, Katsuyo: *See—*
Kimura, Kazuhiro; and Ishida, Katsuyo, 4,704,695, Cl. 364-513.000.
Ishida, Keiichi; and Terada, Takami, to Aisin Seiki Kabushiki Kaisha. Headrest assembly for vehicles. 4,678,232, 7-7-87, Cl. 297-408.000.
Ishida, Keiichi: *See—*
Chiba, Yoshinori; Ishida, Keiichi; and Sugiura, Fumio, 4,690,456, Cl. 297-284.000.
Ishida, Koji; and Matumura, Hiroyoshi, to Hitachi, Ltd. Optical thin film waveguide. 4,695,122, 9-22-87, Cl. 350-96.120.
Ishida, Koji: *See—*
Matsumura, Hiroyoshi; and Ishida, Koji, 4,693,543, Cl. 350-96.110.
Ishida, Kunio; Saito, Satoshi; Habuto, Akinaka; Murata, Tadahiko; Oiso, Hisayoshi; Joyama, Norio; and Fujimoto, Kazuhiro, to Meiji Seika Kaisha, Ltd. Apparatus for producing baked products. 4,655,125, 4-7-87, Cl. 99-355.000.
Ishida, Masahiro; Kato, Shunichi; and Takasu, Noboru, to Kabushiki Kaisha Toshiba. Toroidal core winding apparatus. 4,688,733, 8-25-87, Cl. 242-4.00R.
Ishida, Masahiro; Kato, Shunichi; and Takasu, Noboru, to Kabushiki Kaisha Toshiba. Toroidal winding apparatus. 4,691,872, 9-8-87, Cl. 242-4.00R.
Ishida, Masahiro; Kato, Shunichi; and Takasu, Noboru, to Kabushiki Kaisha Toshiba. Toroidal winding apparatus. 4,694,999, 9-22-87, Cl. 242-4.00R.
Ishida, Masahiro: *See—*
Shioya, Makoto; Sekozawa, Teruji; Funabashi, Motohisa; Ishida, Masahiro; and Tokuda, Hiroatsu, 4,674,028, Cl. 364-148.000.
Ishida, Masato: *See—*
Inuzuka, Tsuneki; Kawatsura, Yoshihiro; and Ishida, Masato, 4,707,111, Cl. 355-8.000.
Takayanagi, Yoshiaki; Ishida, Masato; and Miura, Makoto, 4,684,239, Cl. 355-14.00R.
Takeda, Hiroaki; and Ishida, Masato, 4,647,185, Cl. 355-14.00D.
Ishida, Masayuki: *See—*
Endo, Kazuhito; Ishida, Masayuki; and Ishida, Yoshinobu, 4,675,754, Cl. 360-32.000.
Ishida, Matsuhiko: *See—*
Goto, Shigeru; Asano, Masaru; Ishida, Matsuhiko; and Inoue, Shosaku, 4,681,207, Cl. 198-333.000.
Ishida, Mikio: *See—*
Ishimori, Shoso; Ishiizumi, Seiichi; Ishida, Mikio; and Itatani, Hiroshi, 4,674,287, Cl. 60-416.000.
Ishimori, Shoso; Ishiizumi, Seiichi; and Ishida, Mikio, 4,691,802, Cl. 180-291.000.
Ishimori, Shozo; Ishida, Mikio; Miki, Hiroyuki; Ishiizumi, Seiichi; and Hirata, Kazuo, 4,696,365, Cl. 180-233.000.
Ishida, Minoru, to Feather Safety Razor Co., Ltd. T-shaped raz 4,642,892, 2-17-87, Cl. 30-44.000.
Ishida, Naobumi: *See—*
Micetich, Ronald G.; Yamabe, Shigeru; Tanaka, Moto Yamazaki, Tomio; Ishida, Naobumi; and Kajitani, Mako 4,668,514, Cl. 424-114.000.
Ishida, Noboru; Kawamura, Mitsuyoshi; and Ishihara, Toshiyuki, t NGK Spark Plug Co., Ltd. Turbocharging system for an interna combustion engine. 4,674,283, 6-23-87, Cl. 60-606.000.
Ishida, Ryuichi: *See—*
Inoue, Ichizo; Oine, Toyonari; Yamada, Yoshihisa; Ishida, Ryuich and Ochiai, Takashi, 4,714,702, Cl. 514-259.000.
Sugano, Hiroshi; Ishida, Ryuichi; and Yamamura, Mich 4,665,056, Cl. 514-18.000.
Sugano, Hiroshi; Ishida, Ryuichi; and Yamamura, Mich 4,711,878, Cl. 514-18.000.
Ishida Scales Mfg. Co., Ltd.: *See—*
Bochi, Hiroshi; Ueda, Kenji; and Konishi, Satoshi, 4,693,35 C 193-2.00R.
Fukuda, Masao; Kakita, Yukio; Ueda, Kenji; Terashima, Kich and Bochi, Hiroshi, 4,711,345, Cl. 198-572.000.
Haze, Setsuo, 4,645,020, Cl. 177-25.000.
Kitagawa, Kazumi; and Fujiwara, Atushi, 4,662,462, C 177-25.000.
Konishi, Satoshi, 4,676,326, Cl. 177-1.000.
Koyama, Kazuo, 4,683,707, Cl. 53-502.000.
Mikami, Yoshiharu; Sashiki, Takashi; and Asai, Yoshiha 4,664,200, Cl. 177-25.000.
Naito, Kazufumi; Haze, Setsuo; Nobutugu, Hideo; Nakagaw Yukio; Yamada, Seiji; and Murata, Shuji, 4,694,920, C 177-25.000.
Naito, Kazufumi, 4,705,126, Cl. 177-50.000.
Nakagawa, Yukio, 4,669,557, Cl. 177-25.000.
Nakagawa, Yukio; Kakita, Yukio; and Kitagawa, Kazu 4,683,966, Cl. 177-25.000.
Nakamura, Toru; Konishi, Satoshi; Yamada, Seiji; Tanak Masahiko; and Kubo, Michihiro, 4,708,215, Cl. 177-25.000.
Yamada, Seiji; Konishi, Satoshi; Kono, Katsuaki; and Nishimu Ryoji, 4,705,125, Cl. 177-25.000.
Ishida, Shiro, to Isuzu Motors Limited. Combustion chamber for a internal-combustion engine. 4,709,672, 12-1-87, Cl. 123-256.000.
Ishida, Shiro, to Isuzu Motors Limited. Combustion chamber of interna combustion engine. 4,712,525, 12-15-87, Cl. 123-263.000.
Ishida, Takao; and Shimono, Mamoru, to Tokyo Shibaura Denki Kabushiki Kaisha. Housing apparatus. 4,641,947, 2-10-87, Cl. 355-3.00R.
Ishida, Takao; Yoshida, Yukio; and Ohno, Kenzo, to Yoshida Kogy K.K. Apparatus for detecting door movement data in an autom door system. 4,694,607, 9-22-87, Cl. 49-25.000.
Ishida, Takashi, to Kabushiki Kaisha Daini Seikosha. Electronic tim piece. 4,707,145, 11-17-87, Cl. 368-201.000.
Ishida, Takayoshi: *See—*
Yasuda, Syoichi; Tokuno, Akihira; Futada, Akihiko; Hayas Yoshiharu; Kobori, Kiyoshi; and Ishida, Takayoshi, 4,700,22 Cl. 358-44.000.
Ishida, Tetsuji: *See—*
Omata, Katumi; and Ishida, Tetsuji, 4,668,226, Cl. 604-272.00
Ishida, Tetsuyoshi; Okiura, Kunio; Hanayama, Fumihiko; Yamad Mutsuo; and Arikawa, Yoshijiro, to Babcock-Hitachi Kabushi Kaisha. Carbon monoxide-oxygen fuel cell. 4,711,828, 12-8-87, C 429-12.000.
Ishida, Tokuji; and Hamada, Masataka, to Minolta Camera Kabushi Kaisha. Focus detecting device for use with cameras. 4,636,62 1-13-87, Cl. 250-201.000.
Ishida, Tokuji; and Hamada, Masataka, to Minolta Camera Kabushi Kaisha. Temperature compensation device for focus detecting device. 4,650,309, 3-17-87, Cl. 354-408.000.
Ishida, Tokuji; and Norita, Toshio, to Minolta Camera Kabushi Kaisha. Focus condition detecting device for use in a camer 4,660,955, 4-28-87, Cl. 354-408.000.
Ishida, Tokuji: *See—*
Taniguchi, Nobuyuki; Omaki, Takanobu; Ishikawa, Norio; Naka Masaaki; Ishida, Tokuji; and Hamada, Masataka, 4,702,584, C 354-400.000.
Taniguchi, Nobuyuki; Ishida, Tokuji; Hamada, Masataka; Karasa Toshihiko; and Norita, Toshio, 4,716,434, Cl. 354-408.000.
Ishida, Tomonobu: *See—*
Furukawa, Toshiharu; Shimura, Susumu; Takai, Fumio; Sas Norio; and Ishida, Tomonobu, 4,697,532, Cl. 110-346.000.
Ishida, Tomoyuki: *See—*
Nakamura, Akira; Oinoue, Hiroshi; Ishida, Tomoyuki; and Shitani, Kenji, 4,709,139, Cl. 250-201.000.
Ishida, Torao, to Asahi Kasei Kogyo Kabushiki Kaisha. Method fo producing an active protein. 4,667,017, 5-19-87, Cl. 530-402.000.
Ishida, Toru: *See—*
Nakatani, Seiichi; Yuhaku, Satoru; Okinaka, Hideyuki; Ishida, Toru; Makino, Osamu; and Kikuchi, Tatsuro, 4,714,570, C 252-518.000.
Nishimura, Tsutomu; Nakatani, Seiichi; Yuhaku, Satoru; and Ishida, Toru, 4,695,403, Cl. 252-513.000.
Watanabe, Hirotoshi; Makino, Osamu; and Ishida, Toru, 4,695,54 Cl. 428-209.000.
Ishida, Toshihiko; and Nunokawa, Eiichi, to TDK Corporatio Molded magnetic tape cassette case having improved gate mar location. 4,646,916, 3-3-87, Cl. 206-387.000.

shida, Toshinobu: *See*—
Kamiya, Sigeru; Nozawa, Masaei; Ishida, Toshinobu; and Sasaya, Hideaki, 4,699,509, Cl. 356-70.000.

shida, Tsutomu, to Ricoh Co., Ltd. Composite photosensitive elements for use in electrophotography and process of forming images using same. 4,661,428, 4-28-87, Cl. 430-58.000.

shida, Tsuyoshi: *See*—
Kizu, Shuji; Ishida, Tsuyoshi; and Nagase, Yasuo, 4,691,100, Cl. 250-223.00R.

shida, Yasuo; Fujiwara, Michihiko; Kinoshita, Toshio; and Nimura, Noriyuki, to Shimadzu Corporation. Method of amino acid analysis. 4,670,403, 6-2-87, Cl. 436-90.000.

hida, Yoshihiro: *See*—
Moriguchi, Haruhiko; Inui, Toshiharu; and Ishida, Yoshihiro, 4,701,811, Cl. 358-298.000.

hida, Yoshinobu: *See*—
Endo, Kazuhito; Ishida, Masayuki; and Ishida, Yoshinobu, 4,675,754, Cl. 360-32.000.

idoh, Takanobu; and Kondoh, Yoshiyuki, to Sony Corporation. Digital signal transmitting system. 4,710,921, 12-1-87, Cl. 370-110.100.

hidoh, Takanobu: *See*—
Kondoh, Yoshiyuki; and Ishidoh, Takanobu, 4,656,629, Cl. 370-85.000.

hidoshiro, Hiroshi: *See*—
Goto, Tokuju; Tanaka, Itsuo; Sando, Yoshikazu; and Ishidoshiro, Hiroshi, 4,691,137, Cl. 313-30.000.
Sando, Yoshikazu; and Ishidoshiro, Hiroshi, 4,656,843, Cl. 68-13.00R.
Sando, Yoshikazu; and Ishidoshiro, Hiroshi, 4,711,102, Cl. 68-5.00E.

igaki, Hideyo: *See*—
Ikeda, Toshiki; Beppu, Yoshitugu; Yamamoto, Takashi; Ishigaki, Hideyo; and Ohmura, Hiroshi, 4,698,367, Cl. 521-57.000.

igaki, Kunio: *See*—
Sugimoto, Naohiko; and Ishigaki, Kunio, 4,675,278, Cl. 430-523.000.

igaki, Masahiro: *See*—
Matsuno, Yutaka; Hatanaka, Yasunori; Shimizu, Hirokazu; Ishigaki, Masahiro; Harada, Hiroshi; Kawada, Michihiro; and Wakita, Yasukuni, 4,673,188, Cl. 277-212.0FB.

igaki, Masari; Ohishi, Tetsu; Tokusyuku, Nobuhiro; Kodera, Yoshie; and Fukui, Yukio, to Hitachi, Ltd. Information recording medium. 4,645,712, 2-24-87, Cl. 428-433.000.

igaki, Toshinori, to Kabushiki Kaisha Toshiba. Apparatus for feeding paper sheets from a paper stock to a printer or reader. 4,715,595, 12-29-87, Cl. 271-110.000.

igaki, Yoshio: *See*—
Shibui, Michiro; Hanamoto, Yoshihiro; Ishigaki, Yoshio; Sahara, Hiroshi; Maeda, Satoru; and Noguchi, Yasushi, 4,694,406, Cl. 364-518.000.

igaki, Yukinobu, to Victor Company of Japan, Ltd. Single-sideband generator suitable for integrated circuits. 4,635,004, 1-6-87, Cl. 332-45.000.

igaki, Yukinobu; Namiki, Yasuomi; Fujiwara, Hisashige; and Hirohashi, Kazutoshi, to Victor Company of Japan, Ltd. Audio magnetic recording and/or reproducing apparatus utilizing frequency modulation. 4,698,693, 10-6-87, Cl. 358-310.000.

igami, Kazuhiro: *See*—
Yuzawa, Haruo; Nishiyama, Masafumi; Nakamura, Katsuyuki; and Ishigami, Kazuhiro, 4,656,993, Cl. 123-643.000.

igami, Nobuo: *See*—
Ikemitsu, Morio; Wada, Tohru; Nakanishi, Tohru; and Ishigami, Nobuo, 4,658,978, Cl. 251-315.000.

igami, Takashi: *See*—
Shiraishi, Yasuhisa; Fujita, Takashi; Ochi, Yoshiharu; Hirose, Masahiko; Ichihara, Katsutarou; and Ishigami, Takashi, 4,634,635, Cl. 428-446.000.

igami, Yukio; Akiyama, Yoshinori; and Terasawa, Haruhumi, to NHK Spring Co., Ltd.; and Ikeda Bussan Co. Ltd., a part interest. Armrest of a seat. 4,655,501, 4-7-87, Cl. 297-113.000.

hige, Masafumi; Kanemoto, Yoshitaka; Yokoyama, Tamio; and Sato, Ichitaro, to Sony Corporation. Luminance/chrominance separator. 4,661,842, 4-28-87, Cl. 358-36.000.

hige, Yoshiki: *See*—
Kinugasa, Toshiyuki; Furuya, Tamio; Ishige, Yoshiki; Tsuchimoto, Yuichi; and Takahashi, Shoji, 4,714,424, Cl. 425-388.000.

igooka, Hiroshi: *See*—
Yoshizumi, Hajime; Amachi, Teruo; Kusumi, Takaaki; Tanaka, Takaharu; and Ishigooka, Hiroshi, 4,670,255, Cl. 424-93.000.

iguchi, Isao: *See*—
Yamaguchi, Takashi; Ishiguchi, Isao; and Inoue, Takeshi, 4,716,134, Cl. 501-136.000.

igure, Kazuaki, to Omron Tateisi Electronics Co. Device for automatically opening and closing cash container. 4,638,746, 1-27-87, Cl. 109-52.000.

iguri, Masaaki: *See*—
Takahashi, Yukio; Hayase, Isao; Amano, Keijirou; Mizukami, Masao; and Ishiguri, Masaaki, 4,711,620, Cl. 418-96.000.

iguri, Yukio: *See*—
Noguchi, Hiroshi; Kato, Toshiro; Takahashi, Junya; Ishiguri, Yukio; Yamamoto, Shigeo; and Hirata, Naonori, 4,666,943, Cl. 514-627.000.
Takahashi, Junya; Kato, Toshiro; Noguchi, Hiroshi; Ishiguri, Yukio; Yamamoto, Shigeo; and Kamoshita, Katsuzo, 4,647,583, Cl. 514-482.000.

Ishiguro, Fujio; and Maeda, Hideo, to NGK Insulators, Ltd. Ceramic heater and a method of manufacturing the same. 4,697,165, 9-29-87, Cl. 338-34.000.

Ishiguro, Hiroyuki: *See*—
Kojima, Takao; and Ishiguro, Hiroyuki, 4,713,166, Cl. 204-425.000.

Ishiguro, Kazuyoshi; and Araki, Hidemoto, to Kabushiki Kaisha Tokai Rika Denki Seisakusho. Buckle apparatus. 4,642,858, 2-17-87, Cl. 24-641.000.

Ishiguro, Kazuyoshi, to Kabushiki Kaisha Toka-rika-denki-seisakusho. Buckle device. 4,660,260, 4-28-87, Cl. 24-637.000.

Ishiguro, Kazuyoshi, to Kabushiki Kaisha Tokai-rika-denki-seisakusho. Buckle apparatus. 4,670,952, 6-9-87, Cl. 24-641.000.

Ishiguro, Mamoru: *See*—
Torii, Takahiro; Ishiguro, Mamoru; and Senoh, Hideaki, 4,642,662, Cl. 346-215.000.

Ishiguro, Masato: *See*—
Monma, Hideo; Ishiguro, Masato; and Kawano, Tetsuo, 4,692,783, Cl. 357-42.000.

Ishiguro, Michihiro: *See*—
Hirai, Koji; Taniguchi, Shunro; Ishiguro, Michihiro; Murata, Yoshifumi; Yokota, Shinichi; Ishii, Masao; Yoshimura, Noriaki; and Okamura, Takayuki, 4,639,471, Cl. 521-172.000.

Ishiguro, Michio: *See*—
Miki, Kazuo; Fukui, Katsuhiko; Hayashi, Yasutaka; Ishiguro, Michio; Sumi, Kazumasa; and Takei, Kazukata, 4,669,745, Cl. 280-91.000.

Ishiguro, Minoru; Kamoda, Takashi; Nishizawa, Tetuo; Nakayama, Shigeo; and Yoshida, Toshio, to Fuji Photo Film Co., Ltd. Camera. 4,669,845, 6-2-87, Cl. 354-288.000.

Ishiguro, Minoru: *See*—
Umezu, Takao; Ishiguro, Minoru; and Nishizawa, Tetsuo, 4,641,935, Cl. 354-173.110.

Ishiguro, Nobuya: *See*—
Kondo, Kazuo; Ishiguro, Nobuya; and Tada, Teruo, 4,695,491, Cl. 428-35.000.

Ishiguro, Shinichi: *See*—
Takeuchi, Yasuhito; Hirota, Yuichi; Sano, Shinichi; and Ishiguro, Shinichi, 4,694,680, Cl. 73-1.0DV.

Ishiguro, Shoji: *See*—
Mifune, Hiroyuki; Nakamura, Koki; and Ishiguro, Shoji, 4,634,660, Cl. 430-375.000.

Ishiguro, Takeo: *See*—
Hayase, Yoshio; Ohtsuka, Toshikazu; Ishiguro, Takeo; and Takahashi, Toshio, 4,663,314, Cl. 514-63.000.
Hayase, Yoshio; Ichinari, Mitsuhiro; Taguchi, Junji; Ishiguro, Takeo; and Takahashi, Toshio, 4,681,874, Cl. 514-90.000.

Ishiguro, Toshiaki: *See*—
Furusawa, Choji; and Ishiguro, Toshiaki, 4,658,676, Cl. 74-866.000.
Furusawa, Choji; and Ishiguro, Toshiaki, 4,677,879, Cl. 74-866.000.

Ishiguro, Yasuo: *See*—
Shiroshita, Osamu; Ishiguro, Yasuo; and Itou, Yoshizumi, 4,712,183, Cl. 364-513.000.

Ishiguro, Yoichi: *See*—
Kyoto, Michihisa; Ishiguro, Yoichi; Kawauchi, Hiroshi; and Tanaka, Gotaro, 4,655,808, Cl. 65-3.120.
Kyoto, Michihisa; Watanabe, Minoru; and Ishiguro, Yoichi, 4,664,690, Cl. 65-3.120.

Ishihama, Hiroshi: *See*—
Shiratsuchi, Masami; Kawamura, Kiyoshi; Akashi, Toshihiro; Ishihama, Hiroshi; and Uchida, Yasumi, 4,678,803, Cl. 514-456.000.

Ishihama, Toshio: *See*—
Ofusa, Masaatsu; and Ishihama, Toshio, 4,678,013, Cl. 139-384.00B.
Ofusa, Masaatsu; and Ishihama, Toshio, 4,682,635, Cl. 139-116.000.

Ishihara Chemical Co., Ltd.: *See*—
Obata, Keigo; Dohi, Nobuyasu; Okuhama, Yoshiaki; Masaki, Seishi; Okada, Yukiyoshi; and Yoshimoto, Masakazu, 4,673,470, Cl. 204-44.400.

Ishihara, Heigo; and Ohno, Tomoyuki, to Hitachi, Ltd. Magnetic recording media. 4,692,378, 9-8-87, Cl. 428-340.000.

Ishihara, Hideaki: *See*—
Kurita, Kazuo; and Ishihara, Hideaki, 4,701,377, Cl. 428-364.000.

Ishihara, Hideo: *See*—
Yamamura, Kazuomi; Ishihara, Hideo; Iwamoto, Yoshinao; Suzuki, Shizuo; Sirasaki, Yuichi; and Asakawa, Kenichi, 4,678,371, Cl. 405-164.000.

Ishihara, Hidetoshi: *See*—
Hayashi, Shoichi; Ishihara, Hidetoshi; Okada, Taketoshi; and Kojima, Kunio, 4,680,874, Cl. 34-143.000.

Ishihara, Hiroshi: *See*—
Hono, Susumu; Okuda, Ichiro; Ishihara, Hiroshi; and Hori, Masahiko, 4,685,113, Cl. 375-7.000.

Ishihara, Joo; Ogawa, Toshio; Era, Masashi; and Sato, Ken-ichi, to Hitachi, Ltd. Roll for a rolling mill, method of producing the same and the rolling mill incorporating the roll. 4,697,320, 10-6-87, Cl. 29-132.000.

Ishihara, Joo: *See*—
Minemura, Tetsuroh; Ishihara, Joo; Nagai, Masaichi; and Tamamura, Takeo, 4,668,591, Cl. 428-605.000.

Ishihara, Kazuhiko: *See*—
Matsui, Kiyohide; and Ishihara, Kazuhiko, 4,666,991, Cl. 525-276.000.

Ishihara, Kimio: *See*—
Inoue, Hidefumi; Gotoh, Yuzoh; and Ishihara, Kimio, 4,706,546, Cl. 91-370.000.

Ishihara, Kiyoshi: *See—*
  Inagoya, Osamu; Fujiwara, Hideo; Tottori, Takeshi; Yamano, Minoru, Kumasaka, Noriyuki; Otomo, Shigekazu; Kudo, Mitsuhiro; Morikawa, Juiti; Ishihara, Kiyoshi; Usui, Akira; and Hayashi, Masashi, 4,701,819, Cl. 360-122.000.
Ishihara, Kouhei: *See—*
  Tanaka, Toshinori; Gotou, Takeo; Ishihara, Kouhei; and Kittaka, Yoshiaki, 4,677,407, Cl. 335-202.000.
Ishihara, Kouji; Igusa, Kazuo; and Ogasawara, Toshichika, to Chugai Seiyaku Kabushiki Kaisha. Formulation of sucralfate. 4,668,665, 5-26-87, Cl. 514-53.000.
Ishihara, Koushi; Murakami, Yasuji; Yoshizawa, Nobuyuki; and Funaki, Kiyoshi, to Nippon Telegraph & Telephone Public Corporation; and Ocean Cable Co., Ltd. Submarine optical fiber cable with dam means. 4,684,213, 8-4-87, Cl. 350-96.230.
Ishihara, Koushi: *See—*
  Kakii, Toshiaki; Matsuno, Koichiro; Suzuki, Shuzo; Ashiya, Fumihiro; and Ishihara, Koushi, 4,708,433, Cl. 350-96.220.
  Kobayashi, Toshiaki; Sanada, Kazuo; Murayama, Toshiaki; Sugawara, Yasuyuki; Uesugi, Naoshi; and Ishihara, Koushi, 4,679,899, Cl. 350-96.300.
Ishihara, Masaaki: *See—*
  Kazumi, Jiro; and Ishihara, Masaaki, 4,664,491, Cl. 354-105.000.
Ishihara, Masaki: *See—*
  Hattori, Toshihiro; Ishihara, Masaki; and Uriuhara, Makoto, 4,638,690, Cl. 74-866.000.
Ishihara, Mikiya: *See—*
  Higuchi, Yohji; Matsuoka, Hiroshi; and Ishihara, Mikiya, 4,646,888, Cl. 192-8.00C.
Ishihara, Mitsugu; and Machida, Yukihiko, to Sony Corporation. Data communication apparatus. 4,713,702, 12-15-87, Cl. 360-79.000.
Ishihara, Naoki. Popcorn popper having improved heated air flow. 4,702,158, 10-27-87, Cl. 99-323.500.
Ishihara, Nobuaki; Takei, Toshihiro; Hattori, Yoshiyuki; and Okazaki, Koji, to Nippondenso Co., Ltd. Rolling piston type rotary machine. 4,669,963, 6-2-87, Cl. 418-65.000.
Ishihara, Nobuhide; Kuramoto, Masahiko; and Uoi, Michitake, to Idemitsu Kosan Company Limited. Process for production of styrene polymers. 4,680,353, 7-14-87, Cl. 526-160.000.
Ishihara, Nobuyuki: *See—*
  Nakamura, Naotaka; Miyamoto, Yoshimi; Momiyama, Motokazu; Tsubai, Toshiji, deceased; Teratani, Tatsuo; and Ishihara, Nobuyuki, 4,652,705, Cl. 200-19.00R.
Ishihara, Sadao: *See—*
  Nakao, Hideo; Fujimoto, Koichi; Ishihara, Sadao; Sugawara, Shinichi; and Igarashi, Isamu, 4,716,158, Cl. 514-202.000.
  Yanagisawa, Hiroaki; Ishihara, Sadao; Ando, Akiko; Kanazaki, Takuro; Koike, Hiroyuki; and Tsujita, Yoshio, 4,699,905, Cl. 514-211.000.
Ishihara Sangyo Kaisha Ltd.: *See—*
  Haga, Takahiro; Toki, Tadaaki; Koyanagi, Toru; Okada, Hiroshi; Yoshida, Kiyomitsu; and Imai, Osamu, 4,645,761, Cl. 514-94.000.
  Haga, Takahiro; Yamada, Nobutoshi; Sugi, Hideo; Koyanagi, Toru; and Okada, Hiroshi, 4,677,110, Cl. 514-274.000.
  Haga, Takahiro; Yamada, Nobutoshi; Sugi, Hideo; Koyanagi, Toru; and Okada, Hiroshi, 4,677,111, Cl. 514-274.000.
  Ichimura, Kenichi; and Ichida, Hiroshi, 4,692,392, Cl. 430-46.000.
  Komatsubara, Shoji; Hatabe, Yukio; Horikawa, Tooru; Murasawa, Sadao; and Murakami, Hajime, 4,682,881, Cl. 355-10.000.
  Murasawa, Sadao; Murakami, Hajime; and Oka, Nobuharu, 4,663,257, Cl. 430-45.000.
Ishihara, Shoichi: *See—*
  Kono, Masao; Komeno, Taichitro; Ishihara, Shoichi; Yamauchi, Akira, and Okabayashi, Tadashi, 4,686,179, Cl. 435-7.000.
Ishihara, Shunichi, to Canon Kabushiki Kaisha. Apparatus for forming deposited film. 4,674,434, 6-23-87, Cl. 118-50.100.
Ishihara, Shunichi; Saito, Keishi; Oda, Shunri; and Shimizu, Isamu, to Canon Kabushiki Kaisha. Process for the preparation of photoelectromotive force member. 4,689,093, 8-25-87, Cl. 437-5.000.
Ishihara, Shunichi; Saito, Keishi; Oda, Shunri; and Shimizu, Isamu, to Canon kabushiki Kaisha. Electrophotographic photosensitive member, process and apparatus for the preparation thereof. 4,702,934, 10-27-87, Cl. 427-39.000.
Ishihara, Shunichi; Ohno, Shigeru; Kanai, Masahiro; Oda, Shunri; and Shimizu, Isamu, to Canon Kabushiki Kaisha. Process for forming deposited film. 4,716,048, 12-29-87, Cl. 427-39.000.
Ishihara, Shunichi: *See—*
  Hirooka, Masaaki; Ishihara, Shunichi; Hanna, Junichi; and Shimizu, Isamu, 4,657,777, Cl. 427-39.000.
Ishihara, Takafumi: *See—*
  Cho, Hidetsura; Aisaka, Kazuo; Sato, Fumio; and Ishihara, Takafumi, 4,683,234, Cl. 514-256.000.
Ishihara, Takashi; Okaniwa, Kazuhiro; and Nakamura, Genshiro, to Mitsubishi Denki Kabushiki Kaisha. Sun light electricity generator. 4,638,109, 1-20-87, Cl. 136-244.000.
Ishihara, Takeshi; and Kojima, Masaru, to NGK Insulators, Ltd. Electrical insulator including metal sleeve compressed onto a fiber reinforced plastic rod and method of assembling the same. 4,654,478, 3-31-87, Cl. 174-176.000.
Ishihara, Tamio: *See—*
  Sakamoto, Masami, Nagumo, Ryoichi; and Ishihara, Tamio, 4,683,480, Cl. 346-134.000.
Ishihara, Tomoo: *See—*
  Hata, Hitoshi; Machida, Hisashi; and Ishihara, Tomoo, 4,704,215, Cl. 252-32.70E.

  Hata, Hitoshi; Machida, Hisashi; and Ishihara, Tomoo, 4,704,21 Cl. 252-32.70E.

Ishihara, Toshinobu: *See—*
  Takamizawa, Minoru; Yamamoto, Akira; Ishihara, Toshinobu; and Nagura, Shigehiro, 4,649,185, Cl. 526-279.000.
  Takamizawa, Minoru; Kobayashi, Taishi, Ishihara, Toshinobu; Takeda, Yoshihumi; and Hayashida, Akira, 4,657,991, Cl. 525-477.000.
Ishihara, Toshiyuki: *See—*
  Ishida, Noboru; Kawamura, Mitsuyoshi; and Ishihara, Toshiyuki, 4,674,283, Cl. 60-606.000.
Ishihara, Yasuo, to NEC Corporation. Solid-state image device wit resin lens and resin contact layer. 4,667,092, 5-19-87, Cl. 250-216.00
Ishihara, Yasusuke: *See—*
  Maeda, Kazuya; and Ishihara, Yasusuke, 4,639,004, Cl. 280-5
Ishihata, Takato, to Toyota Jidosha Kabushiki Kaisha. Hose clamping device. 4,637,100, 1-20-87, Cl. 24-274.00R.
Ishii, Akihiro: *See—*
  Shirai, Hideaki; Chiba, Kimio; Okawa, Koji; Ishibashi, Hirosh Ishii, Akihiro; Itoh, Hirotaka; Kuzushita, Hirokazu; Yoshioka Michihiko; and Hirose, Michio, 4,695,515, Cl. 428-458.000.
Ishii, Akira, to Kabushiki Kaisha Toshiba. Differential pressure transmission apparatus. 4,713,969, 12-22-87, Cl. 73-706.000.
Ishii, Akira: *See—*
  Ienaga, Kazuharu; Nakamura, Ko; and Ishii, Akira, 4,683,240, Cl. 514-390.000.
  Ienaga, Kazuharu; Nakamura, Ko; and Ishii, Akira, 4,708,954, Cl. 514-183.000.
  Matsuyama, Shigeru; Kanazaki, Mikio; Aoki, Norio; and Ishii, Akira, 4,709,993, Cl. 350-339.00F.
  Tanaka, Ryuichi; and Ishii, Akira, 4,709,968, Cl. 303-6.00C.
Ishii, Chiharu, to Fuji Xerox Co., Ltd. Data transferring [illegible] 4,639,894, 1-27-87, Cl. 365-189.000.
Ishii, Daisuke, to NEC Corporation. Pager with automatically illum nated display. 4,644,350, 2-17-87, Cl. 340-825.440.
Ishii, Daisuke: *See—*
  Ichikawa, Yoshio; Akahori, Masaaki; Ishii, Daisuke; Tsuda Kazuyuki; Minami, Yohichiro; and Nagata, Koichi, 4,639,72 Cl. 340-825.440.
Ishii, Eiichi; and Yoshioka, Takakazu, to NEC Corporation. Current mirror circuit with a large current ratio. 4,647,870, 3-3-87, Cl. 330-288.000.
Ishii, Eiichi, to NEC Corporation. Electric motor control circu 4,649,327, 3-10-87, Cl. 318-310.000.
Ishii, Fumio: *See—*
  Koshizuka, Kunihiro; Kitamura, Shigehiro; Abe, Taa Nakamura, Masaki; Ishii, Fumio; and Hotta, Yuji, 4,643,917, Cl. 427-256.000.
  Masuda, Kasaku; Sato, Ryosuke; Ishii, Fumio; Kimura, Kazu and Ninomiya, Hidetaka, 4,692,529, Cl. 546-141.000.
  Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; Iijima, Toshijumi; Kumashiro, Kenji; Kashiwagi, Hiroshi; Hata Koichi; Uchida, Takashi; Wada, Hajime; Ishii, Fumio; Ma sunaga, Satoshi; Matsubara, Yasuko; and Shinozaki, Kaor 4,695,533, Cl. 430-558.000.
Ishii, Hakumi: *See—*
  Nishikawa, Masumi; Ishikawa, Masanobu; Sato, Hiroki; Toyoda Shuhei; and Ishii, Hakumi, 4,633,732, Cl. 74-493.000.
Ishii, Hidekazu; and Kosaka, Chihiro, to Tokyo Electric Co., Ltd. Stepping motor operated positioning device for a ribbon lifter in a printer. 4,693,619, 9-15-87, Cl. 400-212.000.
Ishii, Hidenaga: *See—*
  Hagiwara, Tatsuo; Imai, Keiji; Nagaoka, Shigenori; Kogumazaka Shinji; Yahagi, Kyoichi; Imagawa, Takeshi; Ishii, Hidenaga; and Kikuchi, Toshitsugu, 4,645,133, Cl. 241-182.000.
  Hagiwara, Tatsuo; Imai, Keiji; Nagaoka, Shigenori; Kogumazaka Shinji; Yahagi, Kyoichi; Imagawa, Takeshi; Ishii, Hidenaga; and Kikuchi, Toshitsugu, 4,664,321, Cl. 241-176.000.
  Imai, Keiji; Nagaoka, Shigenori; Kogumazaka, Shinji; Imagawa Takeshi; Ishii, Hidenaga; and Kikuchi, Toshitsugu, 4,666,591, C 209-38.000.
Ishii, Hiromi: *See—*
  Takashima, Kiyoshi; Suzuki, Isao; Yoshida, Masashi; Tanaka Ryutatsu; Masumitsu, Noriyuki; Kinoshita, Kazuhiro; and Ishii, Hiromi, 4,686,081, Cl. 420-29.000.
Ishii, Hiromitsu, to Hochiki Kabushiki Kaisha. Light-attenuation typ fire detector assembly. 4,675,661, 6-23-87, Cl. 340-630.000.
Ishii, Hiroshi; and Hosoda, Bunichiro, to Takasago Perfumery Co., Ltd. Cologne composition. 4,678,603, 7-7-87, Cl. 252-522.00R.
Ishii, Hiroshi; Nakai, Syunzi; and Mizumoto, Yukihiro, to Sharp Kabushiki Kaisha. Method and apparatus for recording. 4,695,847, 9-22-87, Cl. 346-1.100.
Ishii, Hiroshi: *See—*
  Kawamura, Yoshikazu; Hosokawa, Minoru; Okazaki, Sakiho; and Ishii, Hiroshi, 4,715,725, Cl. 368-157.000.
  Takarada, Mitsuhiro; Ishii, Hiroshi; Arai, Yutaka; and Ham Takashi, 4,657,951, Cl. 523-153.000.
  Yoshii, Jiro; Komatsu, Akira; and Ishii, Hiroshi, 4,680,720, C 364-521.000.
Ishii, Hiroyuki, to Sugatsune Industrial Co., Ltd. Stopper for doo 4,686,740, 8-18-87, Cl. 16-85.000.
Ishii, Jun: *See—*
  Kobayashi, Osamu; Akagawa, Masaki; Tanaka, Masanori; Ishii, Jun; and Yamagishi, Ryoji, 4,706,202, Cl. 364-479.000.
  Mikami, Mitsugu; Yukimoto, Kougi; and Ishii, Jun, 4,706,785, C 194-317.000.

i, Junichi; and Oka, Koichi, to Sumitomo Metal Mining Company imited. Samarium-cobalt type magnet powder for resin magnet. ,664,723, 5-12-87, Cl. 148-301.000.

i, Kaname, to Kabushiki Kaisha Nichibei. Device for operating oll-screen. 4,662,423, 5-5-87, Cl. 160-293.00R.

i, Katsumi; Hirayama, Kanae; Matsuoka, Yoshio; and Takahashi, Kotei, to Nissan Motor Co., Ltd. Four wheel steer control system for our wheel drive vehicle, responsive to driving torque distribution. ,715,466, 12-29-87, Cl. 180-233.000.

i, Kazuhiro; Uno, Tetsuya; Kato, Masaki; and Kobayashi, Masao, to Mitsubishi Rayon Co., Ltd. Method for regenerating phosphorus-olybdenum-alkali containing oxidation catalyst. 4,707,460, 11-17-87, Cl. 502-26.000.

i, Kazuo: *See*—

Dan, Shigeyuki; Ishii, Kazuo; Kato, Eiichi; and Sera, Hidefumi, 4,665,002, Cl. 430-114.000.

Gomi, Tetsuo; Suganuma, Nobuo; Ishii, Kazuo; and Sato, Hiroshi, 4,649,044, Cl. 424-49.000.

Shirakabe, Kazuhisa; Ishii, Kazuo; and Iriono, Masatoshi, 4,667,089, Cl. 235-462.000.

i, Kazuyoshi: *See*—

Shinyagaito, Tatsuya; Kuramoto, Terumasa; Machida, Toyotaka; Saito, Kikuji; Shichijo, Shunichi; Yamagishi, Tooru; Kobayashi, Yoshinao; Ishii, Kazuyoshi; and Hirata, Atsumi, 4,695,904, Cl. 358-342.000.

Shinyagaito, Tatsuya; Kuramoto, Terumasa; Machida, Toyotaka; Saito, Kikuji; Shichijo, Shunichi; Yamagishi, Tooru; Ishii, Kazuyoshi; Kobayashi, Yoshinao; and Hirata, Atsumi, 4,707,733, Cl. 358-342.000.

i, Kei: *See*—

Ikenoue, Yutaka; Endoh, Hiroyuki; Ishii, Kei; and Suzuki, Keitaro, 4,648,903, Cl. 75-230.000.

i, Kenjiro; Satoh, Yutaka; Fukumoto, Fumio; Otsuki, Hajime; Ko-ura, Yasuhide; and Saito, Shuichi, to Minolta Camera Kabushiki Kaisha. Reader-printer having an image rotation device. 4,695,155, -22-87, Cl. 355-45.000.

i, Kenjiro: *See*—

Otsuki, Hajime; Ishii, Kenjiro; Satoh, Yutaka; and Fukumoto, Fumio, 4,708,464, Cl. 355-45.000.

Toriumi, Shiro; Yamagishi, Seiichi; Yamakoshi, Yukiyoshi; Ishii, Kenjiro; and Maeda, Yutaka, 4,665,408, Cl. 346-134.000.

i, Kenshun: *See*—

Nakao, Shinroku; Ishii, Yoshiyasu; Ishii, Kenshun; and Tsuchiya, Kunimasa, 4,653,745, Cl. 272-73.000.

i, Kiminori: *See*—

Toyama, Takashi; Ohno, Masashi; Ishii, Kiminori; Yamamoto, Shosaku; and Kakinuma, Kazuo, 4,707,381, Cl. 427-407.100.

i, Kiyoshi, to Daicel Chemical Industries, Ltd. Tubular membrane module wherein liquid flows around stay bolt. 4,704,205, 11-3-87, Cl. 10-323.200.

i, Koji; and Okuda, Yukito, to Ryobi Ltd. Plate pressure and printing pressure adjusting mechanism for offset printing machine. ,676,158, 6-30-87, Cl. 101-218.000.

i, Koji; and Okuda, Yukito, to Ryobi Ltd. Cylinder setting mechanism for an offset printing machine. 4,691,631, 9-8-87, Cl. 101-218.000.

i, Koji, to Ryobi Ltd. Paper supplying device for perfecting printing machine. 4,702,470, 10-27-87, Cl. 271-229.000.

i, Kouichi; Mizugami, Susumu; Tabuchi, Mamoru; Nakamura, Masayuki; Baba, Toshihiko; and Ritoh, Naotake, to Kawasaki Steel Corporation; and Mitsubishi Denki Kabushiki Kaisha. Welding apparatus. 4,672,165, 6-9-87, Cl. 219-97.000.

i, Kunio; and Shibata, Tohru, to Daicel Chemical Industries, Ltd. Optical resolution of oxycyclopentenone. 4,683,341, 7-28-87, Cl. 68-366.000.

i, Mamoru: *See*—

Nakagaki, Tomonari; Sekimoto, Yoshiharu; Ishii, Mamoru; and Ishibashi, Haruo, 4,670,206, Cl. 264-87.000.

i, Masaaki: *See*—

Kimizuka, Junichi; and Ishii, Masaaki, 4,676,499, Cl. 271-270.000.

i, Masahiro: *See*—

Murakawa, Shigemi; Taguchi, Seiji; Nomura, Makoto; Takabe, Ryoji; Iwashita, Yoshiharu; and Ishii, Masahiro, 4,697,453, Cl. 73-290.00R.

i, Masami; Motoyama, Hiroshi; Yabuno, Ryohei; and Isomura, Akihito, to Aisin Seiki Kabushiki Kaisha. Method for making a poly-V grooved pulley with interior ribs. 4,653,165, 3-31-87, Cl. 9-159.00R.

i, Masami; Sugimoto, Hitoshi; Ozawa, Mitsuhiro; and Onoda, Yoshitomi, to Aisin Seiki Kabushiki Kaisha. Roll stand for a cold forming apparatus. 4,663,957, 5-12-87, Cl. 72-179.000.

i, Masami: *See*—

Masumoto, Tsuyoshi; Inoue, Akihisa; Oka, Tetsuo; Ishii, Masami; Motoyama, Hiroshi; and Yabuno, Ryohei, 4,655,079, Cl. 73-295.000.

Tsuda, Jou; and Ishii, Masami, 4,636,255, Cl. 106-1.220.

Yasuda, Keiji; Oda, Yukihisa; Hamajima, Shigemitsu; Ishii, Masami; Nakanishi, Katsumi; Tsuzuki, Takayoshi; and Tsuda, Jyou, 4,714,804, Cl. 200-11.0DA.

i, Masao; and Igi, Keishiro, to Kuraray Company, Ltd. Copolyester film and a hot melt adhesive comprising said film. 4,659,615, 4-21-87, Cl. 428-220.000.

i, Masao: *See*—

Endo, Hideki; Hashimoto, Kazuto; Tanaka, Kenji; Matsumoto, Takeshi; Igi, Keishiro; Okamura, Takayuki; Taniguchi, Shunro; Ishii, Masao; Murata, Yoshifumi; and Yokota, Shinichi, 4,657,973, Cl. 525-67.000.

Hirai, Koji; Taniguchi, Shunro; Ishiguro, Michihiro; Murata, Yoshifumi; Yokota, Shinichi; Ishii, Masao; Yoshimura, Noriaki; and Okamura, Takayuki, 4,639,471, Cl. 521-172.000.

Ishii, Masaru: *See*—

Ohtsuki, Tomonari; Ishii, Masaru; and Takeda, Mitsuru, 4,699,458, Cl. 350-96.210.

Ishii, Mitsuaki: *See*—

Miyazaki, Masaaki; and Ishii, Mitsuaki, 4,668,875, Cl. 307-106.000.

Ishii, Mitsuharu: *See*—

Yamazaki, Kozo; Yamagishi, Fumio; Ikeda, Hiroyuki; Watanuki, Hiroshi; Ishii, Mitsuharu; Sebata, Ichiro; and Inagaki, Takefumi, 4,647,143, Cl. 350-3.710.

Ishii, Mitsuru; Akiyama, Seikichi; and Ishibashi, Hiroyuki, to Hitachi Chemical Co. Ltd. Scintillator for radiation detection and process for producing the same. 4,687,683, 8-18-87, Cl. 427-160.000.

Ishii, Naoto: *See*—

Masuda, Masamichi; Sawai, Shinichi; and Ishii, Naoto, 4,654,272, Cl. 428-474.400.

Ishii, Norihisa; and Ogawa, Sumitaka, to Honda Giken Kogyo Kabushiki Kaisha. Ignition timing control system for two-cycle internal combustion engines. 4,669,438, 6-2-87, Cl. 123-418.000.

Ishii, Norihisa: *See*—

Miura, Nabuo; Ishii, Norihisa; and Ogawa, Sumitaka, 4,671,237, Cl. 123-418.000.

Miura, Nobuo; Ishii, Norihisa; and Ogawa, Sumitaka, 4,643,150, Cl. 123-418.000.

Ishii, Norio: *See*—

Sato, Hiroshi; Ishii, Norio; and Hirose, Kenichi, 4,642,409, Cl. 585-486.000.

Sato, Hiroshi; Ishii, Norio; and Hirose, Kenichi, 4,654,457, Cl. 585-486.000.

Sato, Hiroshi; Hirose, Kenichi; Ishii, Norio; and Umada, Youichi, 4,709,024, Cl. 540-536.000.

Ishii, Osamu; Yoshimura, Fumikatsu; and Hatakeyama, Iwao, to Nippon Telegraph & Telephone Public Corporation. Iron oxide magnetic film and process for fabrication thereof. 4,642,245, 2-10-87, Cl. 427-47.000.

Ishii, Ryouichi: *See*—

Kobayashi, Takeshi; Ishii, Ryouichi; and Kitamoto, Tomoyoshi, 4,679,135, Cl. 364-146.000.

Ishii, Satoru; Nemoto, Tugio; and Aiki, Kunio, to Hitachi, Ltd.; and Hitachi Iruma Electronic Co., Ltd. Method of assembling a light emitting device with an optical fiber. 4,702,556, 10-27-87, Cl. 350-320.000.

Ishii, Seiji; Miyoshi, Masanori; Ishiwaka, Takumi; and Kondo, Osamu, to Bridgestone Corporation. Microcellular polyurethane elastomer and manufacturing method of the same. 4,647,596, 3-3-87, Cl. 521-159.000.

Ishii, Shigeki: *See*—

Sugiyama, Jun; Suzuki, Akira; Terada, Kosei; Oguri, Shigenori; and Ishii, Shigeki, 4,672,876, Cl. 84-1.030.

Ishii, Shigeru: *See*—

Maeyama, Tsutomu; Kaneko, Kenji; and Ishii, Shigeru, 4,702,904, Cl. 424-52.000.

Ishii, Shinichi: *See*—

Okumura, Munehiro; Kuwahara, Kazuo; Arita, Masujiro; Mori, Shingo; Ohmura, Tetsuya; Yamamoto, Osamu; and Ishii, Shinichi, 4,668,401, Cl. 210-650.000.

Okumura, Munehiro; Nomura, Takao; Matsuda, Tadashi; Kido, Shojiro; Ishii, Shinichi; and Hattori, Hideki, 4,690,764, Cl. 210-629.000.

Someno, Tetsuya; Kato, Kazuo; Takahashi, Yasushi; Ishii, Shinichi; Takeuchi, Tomio; and Umezawa, Hamao, 4,708,944, Cl. 502-7.000.

Ishii, Shinzo; Katsumata, Shigeo; Arai, Yukou; Fujimoto, Kazuhisa; and Morimoto, Makoto, to Kyowa Hakko Kogyo Co., Ltd. Salt of DC-52 and a pharmaceutical composition containing the same. 4,649,199, 3-10-87, Cl. 544-342.000.

Ishii, Susumu; and Oda, Kiyoshi, to Yoshida Kogyo K. K. Automatic locking slider for slide fasteners. 4,667,376, 5-26-87, Cl. 24-421.000.

Ishii, Susumu; and Oda, Kiyoshi, to Yoshida Kogyo K. K. Automatic locking slider with a pair of pull tabs. 4,679,281, 7-14-87, Cl. 24-422.000.

Ishii, Susumu: *See*—

Ito, Kimiaki; Ueno, Tetsuo; Ueno, Koichi; and Ishii, Susumu, 4,691,659, Cl. 114-144.00R.

Ishii Syoji, Ltd.: *See*—

Hagiwara, Tatsuo; Imai, Keiji; and Nagaoka, Shigenori, 4,637,562, Cl. 241-259.200.

Hagiwara, Tatsuo; Imai, Keiji; Nagaoka, Shigenori; Kogumazaka, Shinji; Yahagi, Kyoichi; Imagawa, Takeshi; Ishii, Hidenaga; and Kikuchi, Toshitsugu, 4,645,133, Cl. 241-182.000.

Hagiwara, Tatsuo; Imai, Keiji; Nagaoka, Shigenori; Kogumazaka, Shinji; Yahagi, Kyoichi; Imagawa, Takeshi; Ishii, Hidenaga; and Kikuchi, Toshitsugu, 4,664,321, Cl. 241-176.000.

Imai, Keiji; Nagaoka, Shigenori; Kogumazaka, Shinji; Imagawa, Takeshi; Ishii, Hidenaga; and Kikuchi, Toshitsugu, 4,666,591, Cl. 209-38.000.

Ishii, Syuzo: *See*—

Hirata, Katsuhiko; and Ishii, Syuzo, 4,703,542, Cl. 24-641.000.

Ishii, Tadashi: *See*—

Shimoya, Shigeo; Iwasaki, Yutaka; Ishii, Tadashi; and Iwasaki, Hikoji, 4,692,741, Cl. 340-392.000.

Ishii, Taira: *See*—

Misawa, Yoshihiko; Ishii, Taira; and Maeda, Yoshinobu, 4,696,424, Cl. 227-84.000.

- Ishii, Takashi, to Kabushiki Kaisha Toshiba. Noise-eliminating apparatus for a video tape recorder. 4,656,531, 4-7-87, Cl. 360-19.100.
- Ishii, Takashi, to International Business Machines Corporation. Method for detecting intermittent error in volatile memory. 4,698,808, 10-6-87, Cl. 371-21.000.
- Ishii, Takatoshi: *See—*
  - Nishi, Kazuhiko; Ishii, Takatoshi; Yamashita, Ryozo; Yamaoka, Shigemitsu; and Okumura, Takatoshi, 4,635,048, Cl. 340-703.000.
  - Nishi, Kazuhiko; Ishii, Takatoshi; Yamashita, Ryozo; Yamaoka, Shigemitsu; and Okumura, Takatoshi, 4,660,070, Cl. 358-11.000.
  - Nishi, Kazuhiko; Ishii, Takatoshi; Yamashita, Ryozo; Yamaoka, Shigemitsu; and Okumura, Takatoshi, 4,684,942, Cl. 340-703.000.
- Ishii, Takayuki; and Yamauchi, Yuji, to Sony Corporation. Method of winding double-layer motor coils. 4,635,457, 1-13-87, Cl. 72-66.000.
- Ishii, Takeshi: *See—*
  - Ushio, Masaru; Ishii, Takeshi; Okazaki, Hajime; Shoda, Takashi; and Nasuno, Kazuya, 4,670,614, Cl. 585-417.000.
  - Yuge, Yooji; Ishizaki, Ariyoshi; Saito, Tokuyoshi; and Ishii, Takeshi, 4,634,919, Cl. 313-113.000.
- Ishii, Tamaki: *See—*
  - Maegawa, Yuzo; Takahashi, Yukoh; Okino, Eizo; Kaneoya, Tatsuo; Okamura, Haruki; Yachigo, Shinichi; and Ishii, Tamaki, 4,670,488, Cl. 524-103.000.
  - Takahashi, Yukoh; Kaneoya, Tatsuo; Okino, Eizo; Maegawa, Yuzo; Okamura, Haruki; Yachigo, Shinichi; and Ishii, Tamaki, 4,670,489, Cl. 524-103.000.
- Ishii, Tetsuyoshi: *See—*
  - Matsuda, Tadahito; Harada, Katsuhiro; Moriya, Shigeru; and Ishii, Tetsuyoshi, 4,634,645, Cl. 430-30.000.
- Ishii, Tooru; and Isobe, Masashi, to Nippon Light Metal Company Limited. Hydrophilic surface-treating process for an aluminum article. 4,650,527, 3-17-87, Cl. 148-6.160.
- Ishii, Toru; Isobe, Masashi; and Endo, Mariko, to Nippon Light Metal Company Limited. Method for formation of hydrophilic corrosion-resistant coating on the surface of metallic material. 4,671,821, 6-9-87, Cl. 148-6.15R.
- Ishii, Toshiaki, to Mitsubishi Denki Kabushiki Kaisha. Position control system for elevator. 4,673,062, 6-16-87, Cl. 187-134.000.
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  - Sato, Tadao; and Ishii, Toshihiko, 4,714,599, Cl. 423-290.000.
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  - Tokuno, Masateru; Sawada, Tetsuya; and Ishii, Yoshihiro, 4,682,743, Cl. 242-58.600.
- Ishii, Yoshinori: *See—*
  - Kobayashi, Susumu; Muramoto, Yutaka; Ishizaka, Hideo; and Ishii, Yoshinori, 4,684,869, Cl. 320-2.000.
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  - Yoshikawa, Sadao; Saburi, Masahiko; Ikariya, Takao; Ishii, Youichi; and Akutagawa, Susumu, 4,691,037, Cl. 556-18.000.
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  - Asami, Kazutomo; Sano, Fumiaki; Ishijima, Koji; Wada, Fumio; and Hirahara, Takuho, 4,645,429, Cl. 417-312.000.
  - Asami, Kazutomo; Sano, Fumiaki; Wada, Fumio; and Ishijima, Koji, 4,711,617, Cl. 417-295.000.
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  - Kudo, Tetsuichi; Kawamura, Go; and Ishikawa, Akira, 4,634,5 Cl. 423-419.00R.
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- Ishikawa, Eiji: *See—*
  - Freytag, J. William; and Ishikawa, Eiji, 4,657,853, Cl. 435-7.0
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  - Udagawa, Tsunekazu, 4,711,456, Cl. 277-235.00B.
  - Udagawa, Tsunekazu, 4,714,260, Cl. 277-235.00B.
  - Yamada, Yoshio; and Nakasone, Hidetaka, 4,648,607, Cl. 27 235.00B.
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- Ishikawa, Haruyuki: *See—*
  - Kishi, Hajimu; Sakakibara, Shinsuke; Ishikawa, Haruyuki; an Kanda, Yuuichi, 4,706,000, Cl. 318-568.000.
  - Toyoda, Kenichi; Sakakibara, Shinsuke; and Ishikawa, Haruyuk 4,680,520, Cl. 318-594.000.
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  - Sakakibara, Shigeru; Arimoto, Shunji; Ishikawa, Hidenobu; an Maruyama, Osamu, 4,690,987, Cl. 525-502.000.
- Ishikawa, Hidetake: *See—*
  - Katayama, Hiroyuki; Ishikawa, Hidetake; Kuwabara, Masa Kajioka, Hiroyuki; Fujita, Masaki; Shibata, Kenji; Tan Yoshiaki; and Shimanuki, Takashi, 4,662,937, Cl. 75-80.00
- Ishikawa, Hikaru: *See—*
  - Morimura, Yasuhiro; Fukuura, Yukio; Ishikawa, Hikaru; Tan Itsuo; and Honda, Toshio, 4,707,397, Cl. 428-216.000.
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- Ishikawa, Hiroshi: *See—*
  - Mio, Kohei; Yamagishi, Yukio; Ishikawa, Hiroshi; Fukuha Mitsuo; and Takahashi, Shigeyuki, 4,699,543, Cl. 404-109.00
  - Nakamura, Kanehito; Matsui, Kazuma; Kurahashi, Takashi; an Ishikawa, Hiroshi, 4,636,643, Cl. 250-338.000.
- Ishikawa, Hiroyasu: *See—*
  - Ito, Masanori; Akiba, Seiji; and Ishikawa, Hiroyasu, 4,675,99 30-124.000.
- Ishikawa, Isao: *See—*
  - Itoh, Michio; Ishikawa, Isao; Yoshida, Motoko; and Oku Kazunori, 4,666,581, Cl. 204-299.00R.
- Ishikawa, Junzo: *See—*
  - Okubo, Masao; Sugaya, Kiyoshi; Takagi, Toshinori; and Ishika Junzo, 4,638,217, Cl. 315-111.810.
- Ishikawa, Katsuji: *See—*
  - Yoshino, Tsunemi; Ishikawa, Katsuji; and Iwata, Hir 4,695,144, Cl. 354-195.110.
  - Yoshino, Tsunemi; Ishikawa, Katsuji; and Mitsui, Hir 4,702,583, Cl. 354-400.000.
- Ishikawa, Katsukiyo; Nishijima, Kanji; and Seio, Mamoru, to Nip Paint Co., Ltd. Method for preparing a printed circuit board wi solder plated circuit and through-holes. 4,671,854, 6-9-87, C 156-659.100.
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- Ishikawa, Kazuhiko: *See—*
  - Takazume, Masafumi; and Ishikawa, Kazuhiko, 4,707,59 219-400.000.
- Ishikawa, Kazumasa; and Koseki, Yuji, to Ricoh Company, Ltd. Fa simile machine using cut sheets of paper. 4,695,898, 9-22-87, C 358-296.000.
- Ishikawa, Kazutomi, to Mori Machinery Co., Ltd. Major-minor t shank for machine tool. 4,673,319, 6-16-87, Cl. 409-234.000.
- Ishikawa, Keiichi: *See—*
  - Maezono, Masakazu; Shimizu, Takeyuki; and Ishikawa, Kei 4,645,051, Cl. 192-0.055.
- Ishikawa, Keisuke, to Alps Electric Co., Ltd. Rotary shaft hous mechanism for a rotary variable element. 4,649,761, 3-17-87, C 74-10.00R.
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- Kitta, Toshiyuki; Tada, Hiroshi; and Ishikawa, Keizo, 4,648,224, Cl. 52-223.00R.

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kawa, Ken: *See*—
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kawa, Kenji: *See*—
- Kasai, Masaaki; and Ishikawa, Kenji, 4,664,275, Cl. 215-247.000.
- Kasai, Masaaki; and Ishikawa, Kenji, 4,682,703, Cl. 215-247.000.

kawa, Kikuo: *See*—
- Nakai, Masayuki; Ishikawa, Kikuo; and Okada, Shiro, 4,691,447, Cl. 34-4.000.

kawa, Kiyoshi: *See*—
- Shino, Satoshi; Sasahara, Akira; Ishikawa, Kiyoshi; Shibasaki, Shigeru; and Takashina, Shinji, 4,660,820, Cl. 271-9.000.
- Urui, Kiyoshi; Ishikawa, Kiyoshi; and Okano, Michiaki, 4,635,253, Cl. 370-67.000.

kawa, Kiyotsugu; Takamura, Tohru; Sone, Yoshiaki; Hashimoto,
isumu; and Hiramoto, Masao, to Matsushita Electric Industrial Co.,
td. Color filter having cyan, yellow, green and magenta filter
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58-48.000.

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- Ida, Jinsei; Hagimoto, Yoshio; and Ishikawa, Makoto, 4,697,965, Cl. 408-56.000.

kawa, Mamoru, to Tokyo Electric Co., Ltd. Battery backup circuit.
670,661, 6-2-87, Cl. 307-66.000.

kawa, Mamoru: *See*—
- Sakura, Yasuhiro; Nimura, Hitoshi; and Ishikawa, Mamoru, 4,639,743, Cl. 346-76.0PH.
- Sakura, Yasuhiro; Nimura, Hitoshi; and Ishikawa, Mamoru, 4,641,147, Cl. 346-76.0PH.
- Sakura, Yasuhiro; Haraga, Koichi; Nimura, Hitoshi; and Ishikawa, Mamoru, 4,697,938, Cl. 400-120.000.

kawa, Masaaki, to Kabushiki Kaisha Toshiba. Paper feeding appara-
s. 4,667,244, 5-19-87, Cl. 358-294.000.

kawa, Masahiro: *See*—
- Ohdake, Eisha; Oikawa, Tomohiro; Shimizu, Kenichi; Seto, Takashi; Ishikawa, Masahiro; Suzuki, Shigeru; and Tagoku, Izumi, 4,640,611, Cl. 355-77.000.

kawa, Masakazu: *See*—
- Nakanishi, Nobuyasu; Ishikawa, Masakazu; Shirai, Akira; Nomura, Yoshihisa; Noguchi, Noboru; and Shibata, Hirochika, 4,668,024, Cl. 303-119.000.
- Nakanishi, Nobuyasu; Ishikawa, Masakazu; Shirai, Akira; and Noguchi, Noboru, 4,715,664, Cl. 303-111.000.
- Nomura, Yoshihisa; Ishikawa, Masakazu; Shirai, Akira; Nogami, Takahiro; Nakamura, Kazumasa; and Ohashi, Kaoru, 4,648,663, Cl. 303-106.000.
- Nomura, Yoshihisa; Ishikawa, Masakazu; Shirai, Akira; Nogami, Takahiro; Nakamura, Kazumasa; and Ohashi, Kaoru, 4,681,373, Cl. 303-106.000.

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etsushi; and Hirano, Atsuo, to Aisin Seiki Kabushiki Kaisha; and
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698,838, 10-6-87, Cl. 379-58.000.

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- Nishikawa, Masumi; Ishikawa, Masanobu; Sato, Hiroki; Toyoda, Shuhei; and Ishii, Hakumi, 4,633,732, Cl. 74-493.000.
- Nishikawa, Masumi; Ishikawa, Masanobu; and Nakashima, Hiroshi, 4,661,752, Cl. 318-434.000.
- Nishikawa, Masumi; Ishikawa, Masanobu; Watanabe, Hiroshi; Kikuchi, Kenichi; and Takizawa, Sumio, 4,669,325, Cl. 74-89.150.
- Nishikawa, Masumi; and Ishikawa, Masanobu, 4,679,457, Cl. 74-441.000.

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peed reactive yellow coupler by processing, after fixings, with a
ulfite-containing solution and without substantial washing.
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kawa, Michio: *See*—
- Kamide, Noboru; Hijikata, Hiroshi; Tokudome, Katsumi; Ishikawa, Michio; and Hayashi, Yuji, 4,635,272, Cl. 372-87.000.

kawa, Noboru: *See*—
- Sawaide, Minoru; Ishikawa, Noboru; and Shiokawa, Hideyo, 4,687,517, Cl. 106-96.000.

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r an amplitude modulator. 4,654,607, 3-31-87, Cl. 332-31.00T.

kawa, Norio: *See*—
- Akada, Yasuaki; Ishikawa, Norio; Egawa, Takeshi; and Taniguchi, Nobuyuki, 4,671,640, Cl. 354-402.000.
- Taniguchi, Nobuyuki; Omaki, Takanobu; Ishikawa, Norio; Nakai, Masaaki; Ishida, Tokuji; and Hamada, Masataka, 4,702,584, Cl. 354-400.000.

kawa, Noriyoshi; Takahashi, Haruhiko; Funato, Hitoshi; Leng,
ray; Saitoh, Hiroyuki; Ohmori, Takashi; Kurata, Masami; and
atou, Yasuo, to Fuji Xerox Co., Ltd. Two-color copying machine.
661,703, 4-28-87, Cl. 250-317.100.

Ishikawa, Noriyoshi: *See*—
- Takahashi, Haruhiko; Inui, Toshiharu; Saitoh, Hiroyuki; Ishikawa, Noriyoshi; Funato, Hitoshi; Ohmori, Takashi; Kurata, Masami; and Katou, Yasuo, 4,709,149, Cl. 250-317.100.

Ishikawa, Paul J.: *See*—
- Jones, Lawrence T.; Ishikawa, Paul J.; and Howden, Ashley G., 4,668,060, Cl. 353-15.000.

Ishikawa, Ryosuke: *See*—
- Tamura, Kinichi; Kawada, Susumu; Sekine, Yoshitada; Abe, Kazuyoshi; Ishikawa, Ryosuke; and Yokota, Fumiki, 4,691,905, Cl. 269-45.000.

Ishikawa, Sako: *See*—
- Ohtsuki, Toru; Oshima, Yoshio; Ishikawa, Sako; Yabe, Hideaki; and Fukuta, Masaharu, 4,677,583, Cl. 364-756.000.
- Yabe, Hideaki; Oshima, Yoshio; Ishikawa, Sako; Ohtsuki, Toru; and Fukuta, Masaharu, 4,635,220, Cl. 364-763.000.

Ishikawa, Satoshi: *See*—
- Matsumoto, Tooru; Ishikawa, Satoshi; Nakamura, Eiji; Izuoka, Tomio; and Okada, Tomoyuki, 4,657,963, Cl. 524-406.000.
- Shinozaki, Takashi; and Ishikawa, Satoshi, 4,648,474, Cl. 180-219.000.
- Shinozaki, Takashi; and Ishikawa, Satoshi, 4,673,052, Cl. 180-219.000.
- Shinozaki, Takashi; and Ishikawa, Satoshi, 4,690,236, Cl. 180-219.000.
- Takahashi, Yoshifusa; Kadonaga, Hiroshi; Ishikawa, Satoshi; and Kikuchi, Junichi, 4,644,587, Cl. 455-601.000.

Ishikawa, Seiji, to Toyota Jidosha Kabushiki Kaisha. Temperature control switch. 4,665,291, 5-12-87, Cl. 200-308.000.

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Ishikawa, Shozo: *See*—
- Matsumoto, Masakazu; Takiguchi, Takao; Yamashita, Masataka; Umehara, Shoji; and Ishikawa, Shozo, 4,702,982, Cl. 430-72.000.
- Umehara, Shoji; Matsumoto, Masakazu; Takiguchi, Takao; Yamashita, Masataka; and Ishikawa, Shozo, 4,666,810, Cl. 430-71.000.

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Ishikawa, Sueyoshi: *See*—
- Hisamoto, Iwao; Hirai, Masaru; and Ishikawa, Sueyoshi, 4,695,488, Cl. 427-385.500.

Ishikawa, Syuhei: *See*—
- Ikushima, Kazuo; Iwadachi, Takaharu; and Ishikawa, Syuhei, 4,692,192, Cl. 148-12.70C.

Ishikawa, Tadashi; and Eguchi, Kazutoshi, to Kabushiki Kaisha Toshiba. Bit sliced decimal adding/subtracting unit for multi-digit decimal addition and subtraction. 4,707,799, 11-17-87, Cl. 364-771.000.

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Ishikawa, Tadashi: *See*—
- Ogihara, Masuo; and Ishikawa, Tadashi, 4,657,404, Cl. 368-74.000.
- Takahashi, Kazuyoshi; Suzuki, Koji; Nagahira, Joji; Yoshihara, Kunio; Matsui, Toshiro; and Ishikawa, Tadashi, 4,709,319, Cl. 363-49.000.
- Watanabe, Yoshitaka; Mamiya, Toshiharu; Ishikawa, Tadashi; and Endo, Takashi, 4,698,650, Cl. 346-134.000.

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Ishikawa, Takashi: *See*—
- Taguchi, Tetsuo; and Ishikawa, Takashi, 4,643,599, Cl. 400-124.000.

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Ishikawa, Takatoshi: *See*—
- Nakamura, Kotaro; and Ishikawa, Takatoshi, 4,695,530, Cl. 430-381.000.

Ishikawa, Takayoshi: *See*—
- Eguchi, Kiyoshi; Ishikawa, Takayoshi; Tamaru, Shigemi; Genba, Yasushi; and Sera, Tsutomu, 4,655,538, Cl. 339-255.00P.

Ishikawa, Takehiro, to Kabushiki Kaisha Daini Seikosha. Integrated circuit for converting a drive signal of three or more voltage levels to two voltage levels. 4,638,247, 1-20-87, Cl. 324-73.00R.

Ishikawa, Takeshi: *See*—
- Imaizumi, Masahiro; Masumura, Masanori; Ishikawa, Takeshi; and Hosoya, Eiji, 4,635,506, Cl. 74-745.000.
- Imaizumi, Masahiro; Masumura, Masanori; Ishikawa, Takeshi; and Hosoya, Eiji, 4,655,309, Cl. 180-215.000.

Ishikawa, Takuma: *See*—
- Johdai, Akiyoshi; Yamada, Hirokazu; Ikenoue, Yoshikazu; and Ishikawa, Takuma, 4,638,992, Cl. 271-293.000.

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- Hatakeyama, Yoshiharu; and Ishikawa, Tatsuo, 4,635,826, Cl. 222-147.000.

  - Yuhara, Yukitomo; Okojima, Sumio; and Ishikawa, Tatsuo, 4,679,576, Cl. 132-82.00R.
- Ishikawa Tekko Kabushiki Kaisha: *See—*
  - Sawada, Kouji; Miura, Kiyokatsu; Suzuki, Keiichiro; Idosako, Hidetaka; and Kazusa, Hideo, 4,714,368, Cl. 403-132.000.
- Ishikawa, Tomohisa, to Casio Computer Co., Ltd. Distorted waveform signal generator. 4,656,428, 4-7-87, Cl. 328-14.000.
- Ishikawa, Tomoyoshi: *See—*
  - Takahara, Atsushi; Ishikawa, Tomoyoshi; Tanaka, Hiroyuki; and Okui, Tamio, 4,679,004, Cl. 331-14.000.
- Ishikawa, Toshikatsu; Teranishi, Haruo; Imai, Yoshikazu; and Nagata, Yoichi, to Agency of Industrial Science & Technology. Method of producing a preform wire, sheet or tape fiber reinforced metal composite. 4,649,060, 3-10-87, Cl. 427-57.000.
- Ishikawa, Toshimitsu; Ozawa, Mishihiro; Sakurai, Mik.o; Konno, Mutsuo; Aizawa, Yasuhiro; Igarasni, Takao; and Hirakawa, Hiromasa, to Hitachi, Ltd.; and Hitachi Engineering Co., Ltd. Fuel assembly. 4,686,079, 8-11-87, Cl. 376-444.000.
- Ishikawa, Toshio; Endo, Fumihiro; Yamagiwa, Tokio; and Kamata, Yuzuru, to Hitachi, Ltd. Gas insulated apparatus with internal coated insulation layer of high dielectric constant. 4,667,061, 5-19-87, Cl. 174-14.00R.
- Ishikawa, Toshio: *See—*
  - Yamagiwa, Tokio; Ishikawa, Toshio; and Endo, Fumihiro, 4,672,150, Cl. 174-14.00R.
- Ishikawa, Wataru: *See—*
  - Hayakawa, Masatoshi; Aso, Koichi; Ochiai, Yoshitaka; Matsuda, Hideki; Hayashi, Kazuhiko; Ishikawa, Wataru; and Iwasaki, You, 4,707,417, Cl. 428-630.000.
  - Hayashi, Kazuhiko; Ochiai, Yoshitaka; Hayakawa, Masatoshi; Matsuda, Hideki; Ishikawa, Wataru; Iwasaki, You; and Aso, Koichi, 4,640,871, Cl. 428-611.000.
- Ishikawa, Yasushi; and Fukuroi, Takeshi, to Fanuc Ltd. Lock. 4,642,044, 2-10-87, Cl. 425-593.000.
- Ishikawa, Yasuyuki; and Matsumura, Isao, to Canon Kabushiki Kaisha. Ophthalmic instrument. 4,678,297, 7-7-87, Cl. 351-208.000.
- Ishikawa, Yoichiro, to Union Special Corporation. Connecting rod manufacture. 4,688,446, 8-25-87, Cl. 74-579.00E.
- Ishikawa, Yoshiaki: *See—*
  - Hayashi, Hideharu; and Ishikawa, Yoshiaki, 4,669,793, Cl. 439-64.000.
- Ishikawa, Yoshihiro: *See—*
  - Ueki, Takashi; and Ishikawa, Yoshihiro, 4,638,789, Cl. 126-351.000.
- Ishikawa, Yoshirou; Ohta, Kazuyuki; and Mitsuhashi, Shinobu, to Sony Corporation. Resistors for use in cathode ray tubes. 4,647,815, 3-3-87, Cl. 315-3.000.
- Ishikawa, Youhei; Yorita, Tadahiro; and Yamashita, Sadao, to Murata Manufacturing Co., Ltd. Electrical trap construction. 4,636,759, 1-13-87, Cl. 333-223.000.
- Ishikawa, Youhei: *See—*
  - Hattori, Jun; and Ishikawa, Youhei, 4,706,052, Cl. 333-219.000.
  - Nishikawa, Toshio; Ishikawa, Youhei; and Wada, Hidekazu, 4,639,699, Cl. 333-202.000.
  - Wakino, Kikuo; Tamura, Hiroshi; and Ishikawa, Youhei, 4,692,727, Cl. 333-219.000.
- Ishikawa, Yujiro, to Brother Industries, Ltd. Optical image reader for reading an image on a given manuscript. 4,636,650, 1-13-87, Cl. 250-578.000.
- Ishikawa, Yujiro, to Brother Industries, Ltd. Optical image reader for reading an image on a given manuscript. 4,642,472, 2-10-87, Cl. 250-578.000.
- Ishikawa, Yujiro, to Brother Industries, Ltd. Optical reader. 4,700,061, 10-13-87, Cl. 250-227.000.
- Ishikawa, Yujiro: *See—*
  - Imaizumi, Mamoru; Ishikawa, Yujiro; Ohta, Eiichi; Sato, Shizuo; and Matsushita, Kazuyuki, 4,647,765, Cl. 250-227.000.
- Ishikawajima-Harima Heavy Industries Co., Ltd.: *See—*
  - Narisoko, Minoru; and Inoue, Satoshi, 4,708,067, Cl. 110-245.000.
- Ishikawajima-Harima Jukogyo Kabushiki Kaisha: *See—*
  - Furukawa, Hiromu; Masumoto, Yuji; and Saito, Shinobu, 4,668,105, Cl. 384-99.000.
  - Ichinoseki, Tsuyoshi; Kato, Hirobumi; Miyahara, Shuji; and Kimuro, Harumi, 4,655,847, Cl. 134-7.000.
  - Ino, Toshio; Maenosono, Tsukasa; Yoshida, Kazuo; Terasaki, Masanori; Kuriwaki, Tetsusho; Koga, Tadao; and Hirado, Miharu, 4,694,131, Cl. 219-10.410.
  - Kawane, Minoru, 4,637,617, Cl. 277-150.000.
  - Kiga, Takashi, 4,702,180, Cl. 110-263.000.
  - Koga, Tadao; Sugimori, Mitsuru; Terasaki, Masanori; Maenosono, Tsukasa; Tsushima, Satoru; Yoshida, Kazuo; Kuriwaki, Tetsusho; and Hirado, Miharu, 4,687,894, Cl. 219-10.430.
  - Koike, Takaaki, 4,693,668, Cl. 415-138.000.
  - Koyama, Toshihiro; Watanabe, Takahiro; Shiozaki, Hiroyuki; Kawanami, Takao; Takahashi, Hideo; Shiraishi, Toshiyuki; and Okudaira, Ken, 4,665,729, Cl. 72-8.000.
  - Kuwano, Hiroaki; Matsushita, Toshiro; Kakuma, Hideaki; and Motomiya, Teruaki, 4,648,580, Cl. 251-129.010.
  - Matsui, Kunio; Fukase, Hisahiko; and Nomura, Akihiro, 4,694,887, Cl. 164-428.000.
  - Miyamae, Shigehiro; and Abe, Takayuki, 4,657,505, Cl. 431-284.000.
  - Mori, Masahiko; and Otagaki, Yoshio, 4,653,418, Cl. 114-162.000.
  - Nanjo, Toshio; and Tomizawa, Fumio, 4,694,465, Cl. 373-81.000.
  - Narisoko, Minoru; and Kiyotomo, Mikio, 4,702,177, Cl. 110-110.000.
  - Shimoda, Hiromi, 4,656,972, Cl. 122-4.00D.
  - Shimoda, Hiromi; and Saito, Hajime, 4,699,587, Cl. 431-354.000.
  - Suzuki, Ryushi; and Yamaga, Joji, 4,643,746, Cl. 55-204.000.
  - Suzuki, Ryushi; and Yamaga, Joji, 4,662,908, Cl. 55-204.000.
  - Tomizawa, Fumio, 4,638,487, Cl. 373-9.000.
  - Tsuruno, Masayoshi; and Horie, Michihiko, 4,702,019, Cl. 34-168.000.
  - Yazawa, Akira; Itagaki, Kimio; Sezaki, Kazuo; Matsuda, Kenji; Kanazawa, Kazuo; Hayashi, Mitsuo; and Katada, Katsuo, 4,657,585, Cl. 75-63.000.
- Ishikawajima Plant Engineering Kabushiki Kaisha: *See—*
  - Tsuruno, Masayoshi; and Horie, Michihiko, 4,702,019, Cl. 34-168.000.
- Ishiki, Naotsugu; and Takei, Yuji, to Sanden Corporation. Stirling cycle engine. 4,697,420, 10-6-87, Cl. 60-517.000.
- Ishikuma, Mineyasu; Hasui, Hiroshi; and Ono, Toshiyuki, to Ajinomoto Co., Inc. Method for producing frozen foods. 4,708,881, 11-24-87, Cl. 426-524.000.
- Ishikura, Hidenobu: *See—*
  - Hine, Shiro; and Ishikura, Hidenobu, 4,667,392, Cl. 29-572.000.
- Ishikura, Kazuo: *See—*
  - Achiha, Masahiko; and Ishikura, Kazuo, 4,636,857, Cl. 358-140.000.
- Ishikura, Masami, to Mitsubishi Denki Kabushiki Kaisha. Recording medium read/write control system. 4,651,238, 3-17-87, Cl. 360-48.000.
- Ishikura, Tadashi: *See—*
  - Echigo, Yoshiaki; Yamao, Mutsunori; Suematu, Yoshiyuki; Ishikura, Tadashi; Asami, Keiichi; and Shidei, Ritsuko, 4,640, Cl. 528-129.000.
- Ishikuro, Hiroshi: *See—*
  - Uemura, Toshinobu; Okhuma, Toshiaki; Shinooka, Kiyoh; Ishikuro, Hiroshi; and Ueda, Yoshio, 4,690,822, Cl. 424-455.000.
- Ishikuro, Tadashi; Honda, Kunihiko; Ohta, Masataka; and Shimizu, Ryuji, to Fuji Photo Film Co., Ltd. Method for preparing a magnetic recording medium. 4,661,421, 4-28-87, Cl. 428-694.000.
- Ishima, Kazumi: *See—*
  - Ito, Tadashi; Jinnai, Koichiro; Koike, Takahisa; Murai, Toshiharu; Fukazawa, Takao; and Ishima, Kazumi, 4,642,653, Cl. 346-1.00.
- Ishimaru, Etsuji: *See—*
  - Yatsu, Tadao; Ishimaru, Etsuji; and Miura, Kimiyoshi, 4,675, Cl. 528-103.000.
- Ishimaru, Hajime; Miyamoto, Masao; and Komaki, Shojiro, to Seiko Instruments & Electronics Ltd. Coolant preservation container. 4,715,186, 12-29-87, Cl. 62-45.000.
- Ishimaru, Hitoshi; and Kobayashi, Toshiki, to Hitachi, Ltd.; and Hitachi Engineering Co., Ltd. Drain recovery system for condensate feedwater system of nuclear power plant. 4,713,209, 12-15-87, Cl. 376-211.000.
- Ishimaru, Junpei: *See—*
  - Ohashi, Toshio; Ichimaru, Yoshiro; Ishimaru, Junpei; and Hagikura, Hirofumi, 4,660,461, Cl. 98-2.010.
- Ishimaru, Mitsutoshi: *See—*
  - Ikegami, Yoshiki; Sato, Yasuaki; and Ishimaru, Mitsutoshi, 4,677,585, Cl. 364-900.000.
- Ishimaru, Shingo: *See—*
  - Sugimoto, Naohiko; Kojima, Tetsuro; and Ishimaru, Shingo, 4,645,735, Cl. 430-512.000.
  - Takada, Shunji; Ohshima, Naoto; and Ishimaru, Shingo, 4,66, Cl. 430-567.000.
- Ishimaru, Toshiyasu: *See—*
  - Yamamoto, Yuichi; Yoshida, Takashi; Fukatsu, Shunzo; and Ishimaru, Toshiyasu, 4,687,769, Cl. 514-202.000.
- Ishimaru, Yoshihiko: *See—*
  - Indo, Kenji; and Ishimaru, Yoshihiko, 4,663,853, Cl. 33-125.00
- Ishimatsu, Tsutomu, to Kawasaki Jukogyo Kabushiki Kaisha. Carrier for watercraft. 4,712,636, 12-15-87, Cl. 180-198.000.
- Ishimizu, Hideaki: *See—*
  - Kikuchi, Hiroshi; Teshima, Minoru; Ishimizu, Hideaki; and Kawasaki, Hiroyoshi, 4,645,277, Cl. 339-17.0LM.
- Ishimori & Co., Ltd.: *See—*
  - Yanagawa, Motoo, 4,702,752, Cl. 55-131.000.
- Ishimori, Shoso; Ishiizumi, Seiichi; Ishida, Mikio; and Itatani, Hiros, to Kubota, Ltd. Running apparatus for an agricultural vehicle. 4,674,287, 6-23-87, Cl. 60-416.000.
- Ishimori, Shoso; Ishiizumi, Seiichi; and Ishida, Mikio, to Kubota, Ltd. Agricultural tractor. 4,691,802, 9-8-87, Cl. 180-291.000.
- Ishimori, Shozo; Ishida, Mikio; Miki, Hiroyuki; Ishiizumi, Seiichi; and Hirata, Kazuo, to Kubota, Ltd. Four wheel drive vehicle. 4,696, 9-29-87, Cl. 180-233.000.
- Ishimoto, Shoji, to NEC Corporation. Semiconductor memory device with improved data write function. 4,669,064, 5-26-87, Cl. 365-189.000.
- Ishimoto, Shoji, to NEC Corporation. Output circuit with improved timing control circuit. 4,682,048, 7-21-87, Cl. 307-269.000.
- Ishimoto, Tuneyoshi: *See—*
  - Tada, Hiroshi; Kido, Masanari; Masunaga, Hidehiko; Iwam; Toshiaki; Ishimoto, Tuneyoshi; and Matsui, M., 4,666,78, Cl. 428-423.900.
- Ishimoto, Zenichi, to Nikko Co., Ltd. Movable toy automatically swingable between an up position and a down position. 4,70, 11-10-87, Cl. 446-290.000.
- Ishimoto, Zenichi, to Nikko Co., Ltd. Operation contact system of transmitter for the radio-controlling toy. 4,713,499, 12-15-87, Cl. 200-16.00D.
- Ishimura, Naoya: *See—*
  - Shibahashi, Yutaka; Nakasuji, Norikazu; Kataoka, Tak; Inagaki, Hiroshi; Kito, Tutomu; Ozaki, Masaharu; Matsu

Nobuaki; Ishimura, Naoya; and Fujita, Katuyuki, 4,681,791, Cl. 428-96.000.

himura, Takiji: *See—*

Iwamoto, Katsuharu; Kawakami, Osamu; Miyagawa, Hideo; Tashiro, Ikuo; and Ishimura, Takiji, 4,687,927, Cl. 250-231.00P.

himura, Toshihiko; and Maekawa, Yukio, to Minolta Camera Kabushiki Kaisha. Exchangeable lens which exchanges electrical signals with a camera body. 4,637,704, 1-20-87, Cl. 354-286.000.

himura, Toshihiko, to Minolta Camera Kabushiki Kaisha. Camera accessory with encoder adjusting device. 4,699,491, 10-13-87, Cl. 354-286.000.

himura, Yohzoh; Nakano, Okihiko; Matsukura, Toyotsugu; and Kanaoka, Toshiaki, to Matsushita Electric Industrial Co., Ltd. Combination thermal and mechanical safety switch for microwave heating oven. 4,663,508, 5-5-87, Cl. 219-10.55C.

hinabe, Masao: *See—*

Machii, Akihiko; Ikegami, Hiroo; Ishinabe, Masao; Imazu, Katsuhiro; and Ueno, Hiroshi, 4,692,810, Cl. 358-256.000.

hino, Iwao; Ohno, Akihiko; and Isaka, Tsutomu, to Mitsubishi Petrochemical Co., Ltd. Silane-crosslinkable copolymer composition. 4,689,369, 8-25-87, Cl. 525-288.000.

hino, Katsuya; and Kawashima, Masahiro, to Yamaha Hatsudoki Kabushiki Kaisha. Drive mechanism for balloon tired motorcycle. 4,667,762, 5-26-87, Cl. 180-226.000.

hino, Kazuo: *See—*

Nakajima, Isamu; Nakashima, Yasuo; Miyazaki, Nobuyuki; and Ishino, Kazuo, 4,702,087, Cl. 62-285.000.

hino, Ken; Hashimoto, Yasuo; Hayashi, Katuhiko; and Misawa, Nobutaka, to TDK Corporation. Absorber device for microwave leakage. 4,689,460, 8-25-87, Cl. 219-10.55D.

hino Seisakujo Co., Ltd.: *See—*

Ishino, Yuuji; Takai, Hitoshi; and Yoshida, Toshihiro, 4,686,895, Cl. 99-440.000.

hino, Toshihiro: *See—*

Hayashi, Atsushi; Kuwabara, Kiyoharu; Sakai, Kohzo; and Ishino, Toshihiro, 4,705,763, Cl. 501-103.000.

hino, Tsutomu; Omatsu, Hideo; Shiraishi, Takao; and Kawakami, Hideaki, to Kabushiki Kaisha Komatsu Seisakusho. Driving control device of a crawler type tractor. 4,699,239, 10-13-87, Cl. 180-315.000.

hino, Yoshihiro; Sugiura, Sadanobu; and Tokunaga, Kunishige, to Toshiba Ceramics Co., Ltd. Immersion nozzle for continuous casting. 4,691,844, 9-8-87, Cl. 222-591.000.

hino, Yuuji; Takai, Hitoshi; and Yoshida, Toshihiro, to Ishino Seisakujo Co., Ltd. Apparatus for producing boiled eggs. 4,686,895, 8-18-87, Cl. 99-440.000.

hioka, Hidenori: *See—*

Umemura, Hiroyuki; Matsuda, Kenji; Tezuka, Tomofumi; Isono, Kazuaki; Ishioka, Hidenori; Matsuoka, Fumio; and Iijima, Hitoshi, 4,709,554, Cl. 62-156.000.

Umemura, Hiroyuki; Matsuda, Kenji; Tezuda, Tomofumi; Isono, Kazuaki; Ishioka, Hidenori; Sugawara, Sakuo; and Hara, Masanori, 4,715,191, Cl. 62-208.000.

hioka, Ryoji: *See—*

Nagato, Nobuyuki; Mori, Hideki; Maki, Kenichiro; and Ishioka, Ryoji, 4,634,784, Cl. 549-521.000.

hioka, Sachio: *See—*

Kusano, Chushirou; Ishioka, Sachio; Imamura, Yoshinori; Takasaki, Yukio; Ogawa, Hirofumi; Makishima, Tatsuo; and Hirai, Tadaaki, 4,636,682, Cl. 313-386.000.

hioka, Yuji: *See—*

Takahashi, Ken; Hirata, Chiaki; and Ishioka, Yuji, 4,712,629, Cl. 180-68.100.

hitani, Tohru; Tamura, Hifumi; and Umemura, Kaoru, to Hitachi, Ltd. Apparatus for implanting ion microbeam. 4,697,086, 9-29-87, Cl. 250-492.200.

hitani, Tohru; Todokoro, Hideo; Kawanami, Yoshimi; and Tamura, Hifumi, to Hitachi, Ltd. Ion microbeam apparatus. 4,710,632, 12-1-87, Cl. 250-396.00R.

hitani, Tohru: *See—*

Uemura, Kaoru; Ishitani, Tohru; and Tamura, Hifumi, 4,680,507, Cl. 315-111.810.

hitani, Toru: *See—*

Tamura, Hifumi; Yamamoto, Shigehiko; Shichi, Hiroyasu; and Ishitani, Toru, 4,687,930, Cl. 250-309.000.

hitate, Yoshiyuki, to Fuji Xerox Co., Ltd. Optical recording device. 4,682,244, 7-21-87, Cl. 358-287.000.

hito, Mitsuya: *See—*

Hisajima, Masahiko; Shigemura, Yutaka; Makiura, Yoshinori; and Ishito, Mitsuya, 4,673,283, Cl. 355-14.0SH.

Shigemura, Yutaka; Makiura, Yoshinori; and Ishito, Mitsuya, 4,671,643, Cl. 355-3.0FU.

hitsubo, Kenji; and Abe, Yoshinobu, to Nissan Motor Company, Limited. Vehicle mirror arrangement. 4,697,065, 9-29-87, Cl. 219-219.000.

hiwaka, Takumi: *See—*

Ishii, Seiji; Miyoshi, Masanori; Ishiwaka, Takumi; and Kondo, Osamu, 4,647,596, Cl. 521-159.000.

Iwasawa, Shigeru; and Ishiwaka, Takumi, 4,707,408, Cl. 428-379.000.

hiwari, Kazuo: *See—*

Ohmori, Akira; and Ishiwari, Kazuo, 4,690,869, Cl. 428-421.000.

hiwata, Ichiro, to Nippon Air Brake Co., Ltd. Master cylinder. 4,671,065, 6-9-87, Cl. 60-533.000.

hiwata, Junichi. Electronic equipment selectively storing a frequently used conversion function. 4,686,643, 8-11-87, Cl. 364-715.000.

Ishiwata, Seibei, to Dia Rubber Company, Ltd. Moisture-permeable, antistatic, and oil-resistant work gloves and production of the same. 4,670,330, 6-2-87, Cl. 428-290.000.

Ishiwata, Shousuke: *See—*

Kanda, Mamoru; Suzuki, Osamu; Ishiwata, Shousuke; and Hayashi, Mitsuroh, 4,679,427, Cl. 73-54.000.

Ishiwatari, Shiro, to Olympus Optical Co., Ltd. Electrophoretic apparatus. 4,680,102, 7-14-87, Cl. 204-299.00R.

Ishiwatari, Takahiko; Kishi, Hiroyoshi; Kawade, Hisaaki; Matsushima, Masaaki; Sawamura, Mitsuharu; and Honguu, Kazuoki, to Canon Kabushiki Kaisha. Optical recording medium which includes a corrosion resistant film of a mixture of a carbide and a nitride. 4,658,388, 4-14-87, Cl. 369-13.000.

Ishiwatari, Takeo; Sasaki, Yasuchiyo; Misawa, Rokuro; and Takao, Shingo, to Nippon Kokan Kabushiki Kaisha. Method and apparatus for preventing stratification of liquefied gases in a storage tank. 4,641,690, 2-10-87, Cl. 141-4.000.

Ishiyama, Chiyoko: *See—*

Shibasaki, Masakatsu; Sodeoka, Mikiko; Ogawa, Yuji; Mase, Toshiaki; Ishibashi, Akira; Horii, Daijiro; Kanayama, Toshiji; Iseki, Katsuhiko; Shinoda, Masaki; Ishiyama, Chiyoko; and Hayashi, Yoshio, 4,699,921, Cl. 514-530.000.

Ishiyama, Kazufumi, to Kabushiki Kaisha Toshiba. Curvilinear array of ultrasonic transducers. 4,686,408, 8-11-87, Cl. 310-334.000.

Ishiyama, Kazuhumi: *See—*

Takano, Masayuki; and Ishiyama, Kazuhumi, 4,688,578, Cl. 128-660.000.

Ishiyama, Kazuo; Yoshida, Masashi; Suzuki, Isao; Kudo, Ichiro; Otaki, Akira; and Okuyama, Noboru, to Nippon Steel Corporation. Tundish for continuous casting of free cutting steel. 4,671,499, 6-9-87, Cl. 266-275.000.

Ishiyama, Masanobu: *See—*

Kashiwa, Norio; Kioka, Mamoru; Kohyama, Masaki; and Ishiyama, Masanobu, 4,668,753, Cl. 526-348.000.

Ishiyama, Shozo, to Kabushiki Kaisha Gakushu Kenkyusha. Children's block toy. 4,667,962, 5-26-87, Cl. 273-157.00R.

Ishiyama, Shun: *See—*

Nishida, Takao; Hiyama, Toru; Moriwaki, Kaoru; Ishiyama, Shun; and Miyamoto, Shunsuke, 4,703,257, Cl. 324-73.00R.

Ishiyama, Takashi: *See—*

Motai, Hiroshi; Fukushima, Yaichi; and Ishiyama, Takashi, 4,684,527, Cl. 426-46.000.

Ishiyama, Yoshihiko: *See—*

Wada, Yasuto; Ishiyama, Yoshihiko; and Yamashita, Makoto, 4,692,000, Cl. 350-637.000.

Ishizaka, Hideo; and Hanzawa, Yoshiki, to Terumo Corporation. Electronic clinical thermometer, and method of measuring body temperature. 4,648,055, 3-3-87, Cl. 364-557.000.

Ishizaka, Hideo: *See—*

Kobayashi, Susumu; Muramoto, Yutaka; Ishizaka, Hideo; and Ishii, Yoshinori, 4,684,869, Cl. 320-2.000.

Yamaguchi, Keiji; and Ishizaka, Hideo, 4,677,983, Cl. 128-680.000.

Ishizaka, Kazuo: *See—*

Kawakami, Hiroshi; and Ishizaka, Kazuo, 4,712,143, Cl. 358-311.000.

Ishizaka, Kunihiko; Sudo, Fumio; Seki, Akira; and Aso, Yoshio, to Kawasaki Steel Corporation; and Kawatetsu Mining Co., Ltd. Method of stabilizing a steel making slag. 4,655,831, 4-7-87, Cl. 75-257.000.

Ishizaka, Michihiro: *See—*

Shikama, Toshihiro; Ota, Takahisa; Ishizaka, Michihiro; Kira, Hirofumi; Horiguchi, Akira; and Kooi, Yuji, 4,685,105, Cl. 370-86.000.

Ishizaka, Shoji: *See—*

Tanimoto, Akikazu; Ishizaka, Shoji; Endo, Yutaka; Suzuki, Hiroyuki; and Yanagihara, Masamitsu, 4,687,322, Cl. 355-55.000.

Tanimoto, Akikazu; and Ishizaka, Shoji, 4,701,606, Cl. 250-201.000.

Ishizaka, Takao: *See—*

Mine, Susumu; and Ishizaka, Takao, 4,640,005, Cl. 29-599.000.

Ishizaka, Yukio: *See—*

Nomura, Masaharu; Tsugawa, Hiroaki; Ishizaka, Yukio; and Hosoi, Hiroomi, 4,682,192, Cl. 503-200.000.

Ishizaka, Yutaka: *See—*

Fukuda, Yutaka; Minagawa, Koji; Nabeshima, Hiroichi; Muneki, Koihiro; Asano, Yoshikatsu; Aoki, Kazuo; and Ishizaka, Yutaka, 4,679,935, Cl. 356-121.000.

Ishizaki, Akira; Akashi, Akira; Ohtaka, Keiji; Suda, Yasuo; and Hiramatsu, Akira, to Canon Kabushiki Kaisha. Exposure control apparatus. 4,643,557, 2-17-87, Cl. 354-406.000.

Ishizaki, Akira; and Arakawa, Kazuhiko, to Canon Kabushiki Kaisha. Accumulation time adjusting device for photo-electric converter. 4,701,626, 10-20-87, Cl. 250-578.000.

Ishizaki, Akira: *See—*

Akashi, Akira; Ohmura, Hiroshi; Ishizaki, Akira; Ohtaka, Keiji; and Suda, Yasuo, 4,716,282, Cl. 250-201.000.

Eguchi, Masaharu; Tosaka, Yoichi; Ohnuki, Ichiro; Aihara, Yoshihiko; and Ishizaki, Akira, 4,714,332, Cl. 354-21.000.

Ohtaka, Keiji; Akashi, Akira; Ishizaki, Akira; Suda, Yasuo; and Hiramatsu, Akira, 4,670,645, Cl. 250-201.000.

Ohtaka, Keiji; Hiramatsu, Akira; Suda, Yasuo; Akashi, Akira; and Ishizaki, Akira, 4,698,492, Cl. 250-201.000.

Suda, Yasuo; Ishizaki, Akira; Ohtaka, Keiji; Akashi, Akira; and Hiramatsu, Akira, 4,634,255, Cl. 354-406.000.

Suda, Yasuo; Ohmura, Hiroshi; Ishizaki, Akira; Akashi, Akira; and Ohtaka, Keiji, 4,688,920, Cl. 354-406.000.

Ishizaki, Ariyoshi: *See—*
Yuge, Yooji; Ishizaki, Ariyoshi; Saito, Tokuyoshi; and Ishii, Takeshi, 4,634,919, Cl. 313-113.000.
Ishizaki, Fumio: *See—*
Kojima, Sadao; Abe, Hitoshi; Ishizaki, Fumio; Otani, Atusi; and Shirotori, Hidefumi, 4,680,999, Cl. 82-36.00B.
Ishizaki, Hideki; Hasegawa, Osamu; and Nishimatsu, Masaharu, to TDK Corporation. Magnetic recording medium. 4,677,023, 6-30-87, Cl. 428-323.000.
Ishizaki, Hideki: *See—*
Arioka, Hiroyuki; Ishizaki, Hideki; and Ide, Toshiaki, 4,666,754, Cl. 428-141.000.
Nishimatsu, Masaharu; Arioka, Hiroyuki; and Ishizaki, Hideki, 4,693,934, Cl. 428-336.000.
Ishizaki, Hirohumi: *See—*
Makimoto, Toshio; Nishimura, Sadahiko; Matsuo, Masayuki; Abiko, Toshio; Ishizaki, Hirohumi; Kanda, Minoru; Nunoya, Hidetsugu; and Komatsu, Mikio, 4,713,670, Cl. 343-700.0MS.
Ishizaki, Hiroshi; and Hayashi, Hiroki, to Honda Giken Kogyo Kabushiki Kaisha. Vehicle body with asymmetric location of front driver and passenger seats. 4,668,003, 5-26-87, Cl. 296-63.000.
Ishizaki, Isao: *See—*
Uchiyama, Taro; Takehisa, Kiwamu; and Ishizaki, Isao, 4,643,889, Cl. 423-579.000.
Ishizaki, Kanjiro: *See—*
Suzuki, Osamu; Ishizaki, Kanjiro; and Ozawa, Seiichi, deceased, 4,687,614, Cl. 264-40.100.
Ishizaki, Kosho: *See—*
Nojiri, Yuukou; Ishizaki, Kosho; Ishida, Giichi; and Inamura, Junshiro, 4,644,232, Cl. 318-66.000.
Ishizaki, Morio; and Nishikawa, Akiyoshi, to Ishizaki Press Kogyo Co., Ltd. Battery can hole detecting apparatus. 4,637,249, 1-20-87, Cl. 73-41.000.
Ishizaki, Naoki; Nunotani, Sadao; Tada, Tatsumi; Uehara, Kazuo; and Akushichi, Shuki, to Kabushiki Kaisha Komatsu Seisakusho. Hydraulic control apparatus. 4,646,622, 3-3-87, Cl. 91-446.000.
Ishizaki Press Kogyo Co., Ltd.: *See—*
Ishizaki, Morio; and Nishikawa, Akiyoshi, 4,637,249, Cl. 73-41.000.
Ishizawa, Isamu; and Tamaki, Sigeo, to Hitachi, Ltd. Apparatus for adjusting specific volume of intake air for engine. 4,712,531, 12-15-87, Cl. 123-556.000.
Ishizawa, Tadao; Kotaka, Hirofumi; and Kakinuma, Masami, to Seiko Seiki Kabushiki Kaisha. Multistage discharge type rotary vacuum pump. 4,697,994, 10-6-87, Cl. 418-8.000.
Ishizawa, Yasuhisa: *See—*
Saito, Seiji; and Ishizawa, Yasuhisa, 4,675,908, Cl. 382-41.000.
Tsunekuni, Masao; and Ishizawa, Yasuhisa, 4,712,100, Cl. 340-710.000.
Ishizu, Nobuhiko: *See—*
Minami, Hirokazu; Ishizu, Nobuhiko; and Ota, Matsuo, 4,702,191, Cl. 114-106.000.
Ishizu, Takazumi: *See—*
Yamamoto, Akio; Ishizu, Takazumi; and Ichihara, Kiyoshi, 4,704,139, Cl. 55-3.000.
Ishizu, Yoshiaki: *See—*
Takeuchi, Michikazu; and Ishizu, Yoshiaki, 4,644,316, Cl. 338-22.00R.
Ishizuka, Hiroshi. Rotary saw blade. 4,637,370, 1-20-87, Cl. 125-15.000.
Ishizuka, Hiroshi. Apparatus for molten salt electrolysis. 4,647,355, 3-3-87, Cl. 204-243.00R.
Ishizuka, Hiroshi. Electrolytic cell for a molten salt. 4,699,704, 10-13-87, Cl. 204-243.00R.
Ishizuka, Hiroshi. Method for producing of polycrystalline silicon and apparatus thereof. 4,715,317, 12-29-87, Cl. 118-719.000.
Ishizuka, Keiji, to Canon Kabushiki Kaisha. Differential phase shift keying demodulator. 4,714,892, 12-22-87, Cl. 329-50.000.
Ishizuka, Kho: *See—*
Izukawa, Kazuhiro; and Ishizuka, Kho, 4,692,649, Cl. 310-316.000.
Ishizuka, Kouichi: *See—*
Masuda, Toshiro; Ishizuka, Kouichi; Fujita, Toshiji; and Kinoshita, Yoshio, 4,685,139, Cl. 382-1.000.
Ishizuka, Masaaki: *See—*
Umezawa, Hamao; Aoyagi, Takaaki; Takeuchi, Tomio; Hamada, Masa; and Ishizuka, Masaaki, 4,663,342, Cl. 514-423.000.
Ishizuka, Masashi; and Ogawara, Makoto, to Kawasaki Jukogyo Kabushiki Kaisha. Construction of vehicle body. 4,678,226, 7-7-87, Cl. 296-203.000.
Ishizuka, Satoshi: *See—*
Fujita, Toshihiro; Ishizuka, Satoshi; Fujito, Katsuyuki; and Sato, Hisanao, 4,677,630, Cl. 372-32.000.
Ishizuka, Shigeki: *See—*
Fukuda, Tokuya; Ishizuka, Shigeki; and Yamashita, Noriyuki, 4,689,580, Cl. 330-306.000.
Ishizuka, Takuo; and Kato, Masao, to Hitachi, Ltd. Loop network system. 4,675,671, 6-23-87, Cl. 340-825.050.
Ishizuka, Waichi; and Aoki, Ryoichi, to Taiyo Yushi K.K. Method of producing cheese-like emulsified food. 4,678,676, 7-7-87, Cl. 426-573.000.
Ishizuka, Yoshizo: *See—*
Fujii, Tadashi; and Ishizuka, Yoshizo, 4,646,748, Cl. 128-660.000.
Ishizuka, Yutaka; and Nakamura, Teruo, to Diesel Kiki Co., Ltd. Rotary compressor with blind hole in end wall that aligns with back pressure chamber. 4,636,153, 1-13-87, Cl. 418-80.000.
Ishizuka, Yutaka: *See—*
Shibuya, Tsunenori; and Ishizuka, Yutaka, 4,668,172, Cl. 418-270.000.
Ishizuki, Kenji: *See—*
Iida, Yoshikazu; and Ishizuki, Kenji, 4,685,786, Cl. 354-21.000.
Ishizumi, Kikuo; Ohashi, Naohito; Tanno, Norihiko; Sato, Hirom Fukui, Masaru; and Morisada, Shinya, to Sumitomo Pharmaceuticals Company. Aminonaphthacene derivatives. 4,673,668, 6-16-87, Cl. 514-34.000.
Ishizumi, Kikuo: *See—*
Ohashi, Naohito; Nagata, Shoji; Nakatsuka, Masashi; Ishizumi, Kikuo; Katsube, Junki; Aono, Shunji; and Sakurama, Teruo, 4,695,580, Cl. 514-412.000.
Iskandarani, Ziad: *See—*
Miller, Theodore E., Jr.; and Iskandarani, Ziad, 4,679,428, Cl. 73-61.10C.
Iskanderov, Alexandr A.: *See—*
Alexandrov, Adolf M.; Vasiliev, Evgeny G.; Iskanderov, Alexandr A.; Magdenko, Vladimir S.; Melikov, Semen G.; Avsharov, Eduard R.; Tsimbler, Jury A.; and Presnyakov, Vladimir 4,711,182, Cl. 104-283.000.
Iskra-Sozd elektrokovinske industrije n.sol.o.: *See—*
Kavcic, Janez, 4,691,194, Cl. 340-405.000.
Trost, Stojan; Vedlin, Boris; and Kazic, Marko, 4,672,616, Cl. 372-19.000.
ISL Ventures, Inc.: *See—*
Huff, Ray V.; Axen, Steven G.; and Baughman, David R. 4,634,187, Cl. 299-4.000.
Islam, Mohammed N.: *See—*
Gordon, James P.; Islam, Mohammed N.; and Mollenauer, Linn F. 4,700,339, Cl. 370-3.000.
Island Rubber & Equipment Co., Inc.: *See—*
Demeri, Robert, 4,664,420, Cl. 285-86.000.
Isler, Erwin; and Wey, Hans R., to H. Weidmann AG. Mine w support anchor. 4,664,573, 5-12-87, Cl. 411-5.000.
Isley, Henry A.: *See—*
Carter, Bruce T.; and Isley, Henry A., 4,656,363, Cl. 307-10.0LS.
Isliker, Gaston R.: *See—*
Snow, Wayne R.; Isliker, Gaston R.; and Johnson, Colin A., deceased, 4,690,480, Cl. 439-364.000.
Ismail, Amr A., to Maine Wild Blueberry Co. Process for producing semi-moist fruit product and the products therefrom. 4,713,2 12-15-87, Cl. 426-290.000.
Ismail, Ibrahim A.; Hemmes, Paul; Skarstedt, Mark T.; and Zipp Adam, to Miles Laboratories, Inc. Viability test device. 4,649,12 3-10-87, Cl. 436-14.000.
Ismail, Ibrahim A.; Hemmes, Paul; Skarstedt, Mark T.; and Z Adam, to Miles Laboratories, Inc. Viability test device. 4,683,2 7-28-87, Cl. 436-14.000.
Iso, Yoshimi; Nakagaki, Harushige; and Nakamura, Masafumi, to Hitachi, Ltd. Reproducing rate control apparatus for information recording disc. 4,675,855, 6-23-87, Cl. 369-32.000.
Iso, Yoshimi: *See—*
Nakagaki, Harushige; Iso, Yoshimi; and Inoue, Shigeki, 4,682, Cl. 369-44.000.
Isobe, Asao: *See—*
Koibuchi, Shigeru; Isobe, Asao; and Makino, Daisuke, 4,698,2 Cl. 430-196.000.
Isobe, Kenichi: *See—*
Yokota, Tohru; Inoue, Kaname; Kitamura, Hajime; Isobe, Kenichi; Ichinohe, Shoji; and Yanagisawa, Takeji, 4,665,145, 526-279.000.
Isobe, Koji: *See—*
Tanaka, Masataka; Ohto, Masao; Sekine, Tetsuo; Isobe, Koji; and Maruyama, Masaru, 4,643,196, Cl. 128-753.000.
Isobe, Masahiro, to Toyota Jidosha Kabushiki Kaisha. Radiator supporting device. 4,651,839, 3-24-87, Cl. 180-68.400.
Isobe, Masakazu: *See—*
Aoki, Tadashi; Isobe, Masakazu; and Kuno, Hiroshi, 4,644,760, 62-324.600.
Isobe, Masashi: *See—*
Ishii, Tooru; and Isobe, Masashi, 4,650,527, Cl. 148-6.160.
Ishii, Toru; Isobe, Masashi; and Endo, Mariko, 4,671,825, Cl. 14 6.15R.
Isobe, Minoru, to Oki Electric Industry Co., Ltd. Thermal printer 4,647,234, 3-3-87, Cl. 400-120.000.
Isobe, Minoru; Imai, Shuichi; Hiroki, Toru; Kodama, Tadashi; and Ohara, Waturu, to Oki Electric Industry Co., Ltd.; and Nippon Telegraph & Telephone Public Corporation. Automatic ribbon positioning serial printer. 4,688,955, 8-25-87, Cl. 400-248.000.
Isobe, Minoru; Koshida, Yoshinori; and Yuasa, Katunori, to Oki Electric Industry Co., Ltd. Face and back reversing mechanism 4,715,594, 12-29-87, Cl. 271-65.000.
Isobe, Minoru: *See—*
Kikuchi, Hiroshi; Hayashi, Kuniharu; Isobe, Minoru; Tanuma, Ji and Maekawa, Masanori, 4,687,361, Cl. 400-322.000.
Isobe, Mitsuo: *See—*
Ohtani, Takayuki; Isobe, Mitsuo; Aono, Akira; and Urak Nobuaki, 4,697,112, Cl. 307-530.000.
Isobe, Ryosuke: *See—*
Asano, Masao; Isobe, Ryosuke; Yamauchi, Yasuhisa; and Ya shi, Hiroaki, 4,713,293, Cl. 428-403.000.
Isobe, Shinichi; and Yonekura, Mikio, to Fanuc Ltd. Control provided with status display. 4,635,183, 1-6-87, Cl. 364-141.000.
Isobe, Susumu: *See—*
Kato, Tetsuo; Isobe, Susumu; and Matsunaga, Kenkichi, 4,650, Cl. 420-111.000.

e, Takahisa: *See—*

Ikeda, Taro; Yahiro, Teruo; Yoshida, Hiroshi; Nishi, Kenji; Isobe, Takahisa; Kume, Yoichi; and Hamano, Hidenobu, 4,688,648, Cl. 175-242.000.

e, Tomohisa: *See—*

Murai, Takaaki; Watanabe, Shoji; Inoue, Kimio; Isobe, Tomohisa; Nakashima, Naoki; Miho, Takuya; and Ikemoto, Yoshiyuki, 4,663,429, Cl. 528-355.000.

Sagami, Yosuke; Yamamoto, Akira; Watanabe, Shoji; Isobe, Tomohisa; and Funato, Susumu, 4,703,338, Cl. 357-72.000.

e, Tomoichi: *See—*

Nagaoka, Kazuo; Isobe, Tomoichi; Kanasugi, Toshihiko; Suzuki, Nobuyuki; Wakabavashi, Sadao; Uchida, Kenji; Tsukamoto, Hideharu; Ohno, Mitsuru; and Shimano, Tadahiko, 4,649,648, Cl. 33-125.00R.

e, Toshiaki; and Oba, Hidehiro, to Toyota Jidosha Kabushiki Kai-
a. Fuel injection control device for internal combustion engine.
690,117, 9-1-87, Cl. 123-492.000.

e, Yukihiro; Tanaka, Kazushi; Nishimatsu, Masaharu; Shinoura,
samu; and Kubota, Yuichi, to TDK Corporation. Magnetic record-
g medium and method. 4,670,340, 6-2-87, Cl. 428-339.000.

e, Yukihiro: *See—*

Ohtsuki, Akira; Konno, Ryozo; Kanno, Nobumori; Sugai, Makio; Mihoya, Takashi; Kubota, Yuichi; Nishimatsu, Masaharu; Isobe, Yukihiro; Tanaka, Kazushi; and Shinoura, Osama, 4,708,909, Cl. 428-425.900.

a, Sumiro; Suzuki, Norio; Miwa, Tamotsu; and Aibara, Shunzo, to
aichi Seiyaku Co., Ltd. Thiazolo[3,2-a][1,2,3]triazolo[4,5-d]pyrimi-
ne and [1,3,4]thiadiazolo[3,2-a][1,2,3]triazolo[4,5-d]pyrimidine de-
vatives. 4,652,646, 3-24-87, Cl. 544-251.000.

a, Takeshi: *See—*

Arai, Mikiro; Isoda, Takeshi; and Funayama, Osamu, 4,659,850, Cl. 556-409.000.

a, Tetsuo; Watanabe, Youichirou; Aoki, Mitsuo; and Nakayama,
obuhiro, to Ricoh Company, Ltd. Carrier particles for use in a
eveloper for developing latent electrostatic images comprise or-
nic tin compound, silicone resin and conductive material.
672,016, 6-9-87, Cl. 430-108.000.

a, Yukitomo, to Osaka Fuji Kogyo Co., Ltd.; and Nippon Light
etal Company Limited. Electric conductor. 4,654,477, 3-31-87, Cl.
74-128.00R.

ai, Masaki; and Kawahara, Atsushi, to Kyodo News Service; and
ippon Kogaku K. K. Image-scanning apparatus. 4,639,787, 1-27-87,
. 358-214.000.

ai, Masaki; and Nakagawa, Yukio, to Nippon Kogaku K. K.
hototelegraphic transmission apparatus. 4,689,691, 8-25-87, Cl.
8-280.000.

ai, Masaki: *See—*

Motoori, Ryuzo; Kimura, Makoto; Isogai, Masaki; Sato, Akimasa; and Kawahara, Atsushi, 4,651,226, Cl. 358-293.000.

Toyoda, Kenji; Kimura, Makoto; and Isogai, Masaki, 4,658,301, Cl. 379-100.000.

ai, Masato; Hattori, Shintaroo; Iwaskai, Kishiro; Mukoh, Akio;
meda, Takao; and Nagae, Yoshiharu, to Hitachi, Ltd. Optical
pparatus using ferroelectric liquid crystal and switching unit for
nitted light. 4,634,226, 1-6-87, Cl. 350-332.000.

ai, Nobuo; Hosokawa, Motoyuki; Okawa, Takashi; Wakui, Nat-
ko; and Watanabe, Toshiyasu, to S. Ishizaka, President of Agency
Industrial Science and Technology. Process for producing ethanol.
650,911, 3-17-87, Cl. 568-902.000.

ai, Nobuo; Okawa, Takashi; Hosokawa, Motoyuki; Tsuji, Tomoji;
d Wakui, Natsuko, to Agency of Industrial Science and Technol-
y. Process for producing ethanol. 4,678,858, 7-7-87, Cl.
8-902.000.

ai, Tokio: *See—*

Kaneyasu, Masayoshi; Arima, Hideo; Ito, Mitsuko; Iwanaga, Shoichi; Sato, Nobuo; Noro, Takanobu; Ikagami, Akira; and Isogai, Tokio, 4,638,443, Cl. 364-497.000.

Okunaka, Masaaki; Nakatani, Mitsuo; Matsuyama, Haruhiko; Yokono, Hitoshi; Isogai, Tokio; Saitoh, Tadashi; Matsukuma, Kunihiro; Midorikawa, Sumiyuki; and Suzuki, Satoru, 4,643,913, Cl. 427-75.000.

aki, Yoshinor: *See—*

Takagi, Tsuneo; Tanabe, Kenjiro; Fukushima, Masao; Kyushima, Hiroki; Takenaka, Kiyoshi; Okada, Akira; and Isogaki, Yoshinor, 4,641,951, Cl. 355-7.000.

uchi, Seiichi: *See—*

Suzuki, Kiziro; Isoguchi, Seiichi; Watanabe, Koji; Yokoyama, Shotaro; and Nishibe, Takashi, 4,652,119, Cl. 356-1.000.

ata, Junji; Yamamoto, Hironori; and Matsushita, Koichi, to Canon
abushiki Kaisha. Exposure apparatus. 4,708,465, 11-24-87, Cl.
55-53.000.

ata, Junji; and Miyazaki, Makoto, to Canon Kabushiki Kaisha.
xposure apparatus. 4,708,466, 11-24-87, Cl. 355-53.000.

ata, Junji: *See—*

Matsushita, Koichi; Isohata, Junji; Yamamoto, Hironori; Miyazaki, Makoto; Ozawa, Kunitaka; and Yoshinari, Hideki, 4,676,630, Cl. 355-53.000.

ata, Shigeru, to AMP Incorporated. Electrical receptacle which
sures positive connection. 4,699,444, 10-13-87, Cl. 439-839.000.

Masaaki: *See—*

Inoue, Hiroshi; Miyazaki, Makoto; Isoi, Masaaki; and Yoda, Makoto, 4,684,578, Cl. 428-462.000.

awa, Kenji: *See—*

Yanagiya, Toshio; Isokawa, Kenji; Ohta, Hisashi; and Inaba, Hideaki, 4,634,573, Cl. 420-127.000.

Isolcell Europa S.r.l.: *See—*

Pruneri, Dario; and Zanon, Karl, 4,665,931, Cl. 131-309.000.

Isolite Babcock Refractories Co., Ltd.: *See—*

Yamamoto, Masafumi; and Fukuzaki, Tatsuo, 4,668,590, Cl. 428-446.000.

Isomae, Kazuo: *See—*

Sato, Susumu; Honda, Haruyoshi; Koumoto, Teruo; Isomae, Kazuo; Kuraishi, Tadayuki; and Katori, Tatsuhiko, 4,659,710, Cl. 514-234.000.

Sato, Susumu; Honda, Haruyoshi; Koumoto, Teruo; Isomae, Kazuo; Kuraishi, Tadayuki; and Katori, Tatsuhiko, 4,690,924, Cl. 514-237.000.

Isomet Corporation: *See—*

Harris, Jeffery J.; and McNeish, Allister, 4,645,309, Cl. 350-358.000.

Isomoto, Jun: *See—*

Kiyota, Yuuhiko; Okada, Tooru; and Isomoto, Jun, 4,646,691, Cl. 123-179.00G.

Isomura, Akihito: *See—*

Ishii, Masami; Motoyama, Hiroshi; Yabuno, Ryohei; and Isomura, Akihito, 4,653,165, Cl. 29-159.00R.

Isomura, Hiroyasu: *See—*

Umeda, Yoshiaki; Matsumoto, Ryouhei; Isomura, Hiroyasu; and Shimotaka, Hisakuni, 4,691,499, Cl. 53-451.000.

Isomura, Shigenori: *See—*

Inoue, Hidehiko; Kondo, Toshio, and Isomura, Shigenori, 4,646,698, Cl. 123-478.000.

Muramatsu, Toshihiko; Isomura, Shigenori; and Harada, Takashi, 4,706,196, Cl. 364-431.050.

Isomura, Yasuo: *See—*

Kubo, Kazuo; Isomura, Yasuo; Sakamoto, Shuichi; and Homma, Hiroshige, 4,636,516, Cl. 514-365.000.

Isonaga, Touichi: *See—*

Kutsumura, Shoji; and Isonaga, Touichi, 4,681,662, Cl. 202-270.000.

Kutsumura, Shoji; and Isonaga, Touichi, 4,683,031, Cl. 202-227.000.

Isono, Haruo; Kusaka, Hideo; and Hasegawa, Takeshi, to Nippon Hoso Kyokai. Viewfinder for TV camera use with means for enhancing the contrast level of the viewfinder image. 4,680,639, 7-14-87, Cl. 358-224.000.

Isono, Haruo: *See—*

Yuyama, Ichiro; Yamada, Mitsuho; Isono, Haruo; and Yasuda, Minoru, 4,704,627, Cl. 358-88.000.

Isono, Kazuaki: *See—*

Umemura, Hiroyuki; Matsuda, Kenji; Tezuka, Tomofumi; Isono, Kazuaki; Ishioka, Hidenori; Matsuoka, Fumio; and Iijima, Hitoshi, 4,709,554, Cl. 62-156.000.

Umemura, Hiroyuki; Matsuda, Kenji; Tezuda, Tomofumi; Isono, Kazuaki; Ishioka, Hidenori; Sugawara, Sakuo; and Hara, Masanori, 4,715,191, Cl. 62-208.000.

Isono, Keinosuke; and Naoi, Keiji, to Terumo Kabushiki Kaisha. Method for manufacturing artificial organ. 4,634,447, 1-6-87, Cl. 623-66.000.

Isono, Keinosuke; and Naoi, Keiji, to Terumo Kabushiki Kaisha. Artificial organ and method for manufacture thereof. 4,643,715, 2-17-87, Cl. 604-4.000.

Isono, Keinosuke, to Terumo Kabushiki Kaisha. Connector for therapeutic tubing and medical solution bag device using the connector. 4,668,217, 5-26-87, Cl. 604-49.000.

Isono, Kunihiro: *See—*

Kume, Toyohiko; Tsuboi, Shinichi; Isono, Kunihiro; Sasaki, Shoko; and Hattori, Yumi, 4,675,331, Cl. 514-367.000.

Kume, Toyohiko; Tsuboi, Shinichi; and Isono, Kunihiro, 4,692,436, Cl. 514-129.000.

Kume, Toyohiko; Kurahashi, Yoshio; Isono, Kunihiro; Sakawa, Shinji; and Matsumoto, Noboru, 4,700,006, Cl. 568-67.000.

Isono, Yasuo: *See—*

Mimura, Yoshiyuki; and Isono, Yasuo, 4,701,042, Cl. 355-3.0DD.

Isoo, Osamu: *See—*

Shimizu, Ryuichi; Mori, Yasuki; Kawanishi, Tsuneaki; Isoo, Osamu; Morishita, Hirosada; and Hosoda, Tooru, 4,680,058, Cl. 106-23.000.

Isoreg Corporation: *See—*

Rechsteiner, Emil B., 4,655,407, Cl. 242-4.00A.

Isoroy: *See—*

Vernois, Michel; and Paugam, Francois, 4,680,219, Cl. 428-222.000.

Isosport Verbundbauteile Ges.m.b.H: *See—*

Woltron, Herbert; and Huber, Christian, 4,696,459, Cl. 267-36.100.

Isosport Verbundbauteile Ges.m.b.H.: *See—*

Woltron, Herbert, 4,688,778, Cl. 267-148.000.

Isosport Verbundbautiele Ges.m.b.H: *See—*

Woltron, Herbert, 4,659,071, Cl. 267-149.000.

Isota, Yoichiro: *See—*

Matsunaga, Fujihisa; Kato, Eiji; Kimura, Tsuyoshi; and Isota, Yoichiro, 4,675,444, Cl. 564-403.000.

Isotechnologies, Inc.: *See—*

McIntyre, Donald R., 4,650,183, Cl. 272-96.000.

McIntyre, Donald R., 4,653,750, Cl. 272-134.000.

McIntyre, Donald R.; and Miles, James E., 4,678,186, Cl. 272-134.000.

Miles, James E., 4,695,100, Cl. 303-10.000.

Isothermic Engineering & Research Limited: *See—*

Kelly, Brian, 4,665,849, Cl. 112-155.000.

Isotronics, Inc.: *See—*

Ahearn, John E.; Frates, Raymond A.; Girard, Dennis; Koepke, Richard A.; Schmidt, James K.; and Manon, C. Dodd, 4,716,082, Cl. 428-428.000.

- Isotta Fraschini S.p.A.: *See—*
  - Cerini, Adolfo G.; and Riganti, Gianpiero R., 4,665,870, Cl. 123-195.00R.
- Isover Saint-Gobain: *See—*
  - Cousin, Stephane; and Boumendil, Jean-Paul, 4,695,338, Cl. 156-71.000.
  - Cousin, Stephane; and Boumendil, Jean-Paul, 4,696,847, Cl. 428-76.000.
  - Debouzie, Alain; and Sainte-Foi, Daniel, 4,664,691, Cl. 65-6.000.
  - Fugier, Roger; de Mezerac, Charles D.; Joachim, Jacky; and Decagny, Michel, 4,663,419, Cl. 528-164.000.
  - Fugier, Roger; de Goys de Mezerac, Charles; Joachim, Jacky; and Decagny, Michel, 4,710,406, Cl. 427-389.800.
  - Mosnier, Francis, 4,661,135, Cl. 65-14.000.
  - Savary, Didier J. R., 4,668,267, Cl. 65-11.100.
- Isover Saint-Gobain "Les Miroirs": *See—*
  - Berscheid, Peter; and Friesdorf, Jakob, 4,687,530, Cl. 156-215.000.
- Isovolta Oesterreichische Isolierstoffwerke Aktiengesellschaft: *See—*
  - Melcher, Gerhard, 4,687,685, Cl. 427-366.000.
- Isowa, Eiichi: *See—*
  - Mori, Kazuo; and Isowa, Eiichi, 4,655,870, Cl. 156-285.000.
- Isowa Industry Company, Ltd.: *See—*
  - Mori, Kazuo; and Isowa, Eiichi, 4,655,870, Cl. 156-285.000.
- Isoyama, Toyoshiro; Ogawa, Tetsuya; and Sugimori, Shigeru, to Chisso Corporation. Liquid crystal ester compound. 4,680,137, 7-14-87, Cl. 252-299.620.
- Isoyama, Toyoshiro; Goto, Yasuyuki; Ogawa, Tetsuya, and Sugimori, Shigeru, to Chisso Corporation. Ester compound. 4,696,759, 9-29-87, Cl. 252-299.620.
- Isoyama, Toyoshiro: *See—*
  - Kitano, Kisei; Ogawa, Tetsuya; Furukawa, Yoshito; Yoshida, Naoyuki; Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; and Nigorikawa, Kazunori, 4,684,476, Cl. 252-299.610.
  - Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; and Nigorikawa, Kazunori, 4,654,162, Cl. 252-299.630.
  - Sugimori, Shigeru; Isoyama, Toyoshiro; and Goto, Yasuyuki, 4,659,501, Cl. 252-299.500.
  - Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; and Nigorikawa, Kazunori, 4,661,283, Cl. 252-299.630.
  - Sugimori, Shigeru; Ogawa, Tetsuya; Goto, Yasuyuki; Isoyama, Toyoshiro; Nigorikawa, Kazunori; Kitano, Kisei; Yoshida, Naoyuki; and Furukawa, Yoshito, 4,673,529, Cl. 252-299.630.
  - Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; Nigorikawa, Kazunori; Ogawa, Tetsuya; Kitano, Kisei; Yoshida, Naoyuki; and Furukawa, Yoshito, 4,684,478, Cl. 252-299.630.
  - Yoshida, Naoyuki; Kitano, Kisei; Furukawa, Yoshito; Ogawa, Tetsuya; Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; and Nigorikawa, Kazunori, 4,640,796, Cl. 252-299.610.
- Isozaki, Hideo: *See—*
  - Orihashi, Tadaaki; Tsuji, Hiroshi; Ogawa, Kazuhiko; Hayashitani, Masao; Terada, Seiji; Miyagawa, Tsugio; and Isozaki, Hideo, 4,673,486, Cl. 208-86.000.
- Isozaki, Koki, to Japan Servo Co., Ltd. Permanent magnet type stepping motor. 4,675,564, 6-23-87, Cl. 310-49.00R.
- Isozaki, Takashi: *See—*
  - Yokoi, Shigeo; Isozaki, Takashi; Yamamoto, Ryuta; and Kawaguchi, Toshiyuki, 4,709,330, Cl. 364-400.000.
- Isozaki, Wataru: *See—*
  - Kambara, Yoshihiko; Asano, Shiro; Isozaki, Wataru; Kitado, Syoji; and Yamaguchi, Masao, 4,670,590, Cl. 564-206.000.
- Isozaki, Yoshimasa: *See—*
  - Nagai, Yohei; and Isozaki, Yoshimasa, 4,704,931, Cl. 84-1.010.
- ISPO GmbH: *See—*
  - Nicklas, Hans; and Pruzina, Christoph, 4,694,626, Cl. 52-309.120.
- Ispra Fibroptics Industries Herzlia Ltd.: *See—*
  - Jacobson, Amnon, 4,715,875, Cl. 65-3.110.
- Israel Aircraft Industries, Ltd.: *See—*
  - Akerman, Moshe; and Saly, Amnon, 4,665,857, Cl. 114-261.000.
  - Bar-Nefy, Simcha; and Tiomkin, Michael, 4,690,030, Cl. 89-1.130.
  - Stoler, Arie, 4,683,356, Cl. 200-61.930.
- Israel, Cheryl; and Morgan, Melissa M., to Hasbro, Inc. Novelty wristwatch. 4,685,599, 8-11-87, Cl. 224-170.000.
- Israel, Michael B. Exponential mixing and delivery system. 4,668,219, 5-26-87, Cl. 604-85.000.
- Israelson, Gordon A., to Westinghouse Electric Corp. Thermal expansion compensating back flush manifold. 4,692,176, 9-8-87, Cl. 55-302.000.
- Issakainen, Onni, to Oy Tampella AB. Apparatus for feeding cement material into a drill hole for cement bolting of a rock. 4,643,619, 2-17-87, Cl. 405-303.000.
- Issautier, Gerald. Haemodialysis device automatically monitoring loss of weight. 4,684,460, 8-4-87, Cl. 210-90.000.
- Issenmann, Olivier, to Geoservices. Device for transmitting to the surface the signal from a transmitter located at a great depth. 4,684,946, 8-4-87, Cl. 340-855.000.
- Isshiki, Isao; and Hayashi, Hitoshi, to Tokai Electric Wire Company Limited. Interconnection apparatus for wiring harnesses. 4,685,753, 8-11-87, Cl. 439-74.000.
- Isshiki, Isao; and Takahashi, Shinichiro, to Sumitomo Electric Industries, Ltd. Digital filter circuit. 4,686,483, 8-11-87, Cl. 328-165.000.
- Isshiki, Isao: *See—*
  - Takahashi, Shinichiro; and Isshiki, Isao, 4,691,330, Cl. 377-39.000.
- Isshiki, Kunio: *See—*
  - Umezawa, Hamao; Takeuchi, Tomio; Hamada, Masa; Naganawa, Hiroshi; Sawa, Tsutomu; Imoto, Masaya; Iinuma, Hironobu; Uchida, Takeshi; and Isshiki, Kunio, 4,686,308, Cl. 564-219.000.
- Isshiki, Minoru: *See—*
  - Gotou, Masana; Isshiki, Minoru; Uozumi, Shoji; Ohizum Masayuki; and Fushiki, Yasuo, 4,662,973, Cl. 156-307.400.
- Isshiki, Tomiya; Kijima, Yasuhiko; Miyauchi, Yuh; and Yasunaga, Takayuki, to Mitsubishi Gas Chemical Co., Inc. Process for producing ethylidenediacetate. 4,659,865, 4-21-87, Cl. 560-232.000.
- Issledovatelski Centar "Tekom" : *See—*
  - Hadjiiski, Anatoli M.; Varbanov, Hristo P.; Mishonov, Michail T Stamov, Vladimir P.; Savov, Rosen P.; Radenkov, Strahil K Panev, Vladimir B.; and Velev, Alexander S., 4,638,607, C 52-79.900.
- Istituto Biochimico Pavese SpA: *See—*
  - Colombi, Nelly, 4,672,077, Cl. 514-555.000.
- Istituto de Angeli S.p.A.: *See—*
  - Bietti, Giuseppe; Cereda, Enzo; Donetti, Arturo; del Sold Piero; Giachetti, Antonio; and Micheletti, Rosamaria, 4,645,5 Cl. 548-128.000.
  - Bietti, Giuseppe; Cereda, Enzo; Donetti, Arturo; Giachetti, An nio; and Pagani, Ferdinando, 4,649,150, Cl. 514-392.000.
  - Cereda, Enzo; Donetti, Arturo; Giachetti, Antonio; and del S dato, Piero, 4,643,993, Cl. 514-93.000.
  - Cereda, Enzo; Bietti, Giuseppe; Donetti, Arturo; del Sold Piero; Giachetti, Antonio; and Pagani, Ferdinando, 4,666,932, C 514-400.000.
  - Cereda, Enzo; Bietti, Giuseppe; Donetti, Arturo; del Sold Piero; Giachetti, Antonio; and Pagani, Ferdinando, 4,699,915, C 514-357.000.
- Istituto Gentili S.p.A.: *See—*
  - Staibano, Giorgio, 4,705,651, Cl. 260-502.50C.
- Istituto Guido Donegani S.p.A.: *See—*
  - Venturello, Carlo; Alneri, Enzo; Coassolo, Alfredo; and D'A Rino, 4,701,550, Cl. 560-180.000.
- Isuzu Motors Limited: *See—*
  - Asagi, Yasuyoshi; Ogawa, Noriaki; Kasai, Hitoshi; Hattori, T shihiro; and Uriuhara, Makoto, 4,642,771, Cl. 364-424.100.
  - Asagi, Yasuyoshi; Ogawa, Noriaki; Moride, Shigeki; Hattori, T shihiro; and Shishido, Katsuya, 4,671,397, Cl. 192-0.052.
  - Hattori, Toshihiro; Ishihara, Masaki; and Uriuhara, Mak 4,638,690, Cl. 74-866.000.
  - Hattori, Toshihiro; Uriuhara, Makoto; Kasai, Hitoshi; Asa Yasuyoshi; and Ogawa, Noriaki, 4,643,048, Cl. 74-866.000.
  - Hattori, Toshihiro; Uriuhara, Makoto; Kasai, Hitoshi; and Asa Yasuyoshi, 4,677,880, Cl. 74-866.000.
  - Hattori, Toshihiro; Uchiyama, Nobuichi; Asagi, Yasuyo Ogawa, Noriaki; and Kasai, Hitoshi, 4,683,996, Cl. 192-0.03
  - Hattori, Toshihiro; Shishido, Katsuya; Kasai, Hitoshi; Mori Shigeki; and Ogawa, Noriaki, 4,685,051, Cl. 364-424.100.
  - Ishida, Hisao, 4,633,992, Cl. 192-85.00C.
  - Ishida, Shiro, 4,709,672, Cl. 123-256.000.
  - Ishida, Shiro, 4,712,525, Cl. 123-263.000.
  - Kasai, Hitoshi; Asagi, Yasuyoshi; Hattori, Toshihiro; Saito, Hi and Shishido, Katsuya, 4,635,214, Cl. 364-551.000.
  - Kawamura, Hideo; Yoshida, Yukio; and Yamashita, Keich 4,684,341, Cl. 431-242.000.
  - Kawamura, Hideo, 4,694,653, Cl. 60-597.000.
  - Kawamura, Hideo, 4,694,654, Cl. 60-605.000.
  - Kawamura, Hideo; Yoshida, Yukio; and Yamashita, Keich 4,703,888, Cl. 237-2.00A.
  - Kawamura, Hideo, 4,711,087, Cl. 60-786.000.
  - Shimizu, Yoshiro, 4,689,916, Cl. 49-374.000.
  - Uriuhara, Makoto; and Ohmori, Atsushi, 4,685,062, C 364-424.100.
  - Yamaguchi, Isao; and Tada, Osamu, 4,671,085, Cl. 70-248.00
  - Yoshimura, Hiroshi; and Hattori, Toshihiro, 4,678,069, C 192-0.033.
- Itaba, Tunesaku: *See—*
  - Kobayashi, Daisaku; Itaba, Tunesaku; and Momose, Yuta 4,691,591, Cl. 74-606.00A.
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- Itaba, Yasushi; Yoshino, Tadao; Yoshifuji, Yutaka; Saito, Keichiro; a Tabuchi, Jyoichi, to Toa Nenryo Kabushiki Kaisha. Polyethyle stretched film. 4,673,619, 6-16-87, Cl. 428-338.000.
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  - Arika, Junji; Miyazaki, Hiroshi; Igawa, Kazushige; and Itaba Keiji, 4,650,654, Cl. 423-328.000.
  - Arika, Junji; Miyazaki, Hiroshi; Itabashi, Keiji; and Aimoto, M chiyuki, 4,664,898, Cl. 423-329.000.
  - Arika, Junji; Igawa, Kazushige; and Itabashi, Keiji, 4,687,65 423-329.000.
- Itabashi, Mitsuharu: *See—*
  - Aoyama, Masaaki; Itabashi, Mitsuharu; Miura, Mariko; and Ko Masahiro, 4,696,905, Cl. 436-64.000.
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- Itabashi, Yoshifumi: *See—*
  - Ando, Toshiharu; Yasuda, Kazuo; Itabashi, Yoshifumi; and Tsuchihashi, Masaru, 4,670,534, Cl. 528-100.000.
  - Yasuda, Kazuo; Ando, Toshiharu; and Itabashi, Yoshifumi, 4,677,144, Cl. 523-456.000.
  - Yasuda, Kazuo; Ando, Toshiharu; Itabashi, Yoshifumi; and Tsuchihashi, Masaru, 4,681,904, Cl. 523-457.000.
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  - Yoda, Kiyoshi; Itagaki, Hidenobu; Fujimura, Satoshi; and Yamada, Tadatoshi, 4,649,345, Cl. 324-309.000.
  - Yoda, Kiyoshi; Itagaki, Hidenobu; and Fujimura, Satoshi, 4,706,028, Cl. 324-309.000.
- Itagaki, Kazuyoshi: *See—*
  - Morimoto, Isao; Itagaki, Kazuyoshi; and Mori, Koichi, 4,670,345, Cl. 428-411.100.
- Itagaki, Kimio: *See—*
  - Yazawa, Akira; Itagaki, Kimio; Sezaki, Kazuo; Matsuda, Kenji; Kanazawa, Kazuo; Hayashi, Mitsuo; and Katada, Katsuo, 4,657,585, Cl. 75-63.000.
- Itagaki, Masanori; Takahashi, Junichi; and Endou, Hideyasu, to Ricoh Company, Ltd. Electronic device carrier. 4,695,678, 9-22-87, Cl. 174-52.0FP.
- Itagaki, Masanori: *See—*
  - Ikariya, Takao; Itagaki, Masanori; Mizuguchi, Masatsugu; Sakai, Itaru; and Tajima, Osamu, 4,678,856, Cl. 560-24.000.
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- Itagaki, Masato; Kikuchi, Katsuaki; Nakayama, Susumu; Haeda, Yoshio; and Kawakami, Takashi, to Hitachi, Ltd. Components feeding apparatus. 4,704,792, 11-10-87, Cl. 29-741.000.
- Itagaki, Masato: *See—*
  - Nagai, Makoto; Horiuchi, Isamu; Hanada, Masamichi; Kuroda, Sigeaki; Hayashi, Masakatsu; Ohishi, Yasuro; Mori, Yutaka; Maeda, Eiji; Kasukabe, Kimito; Tsujita, Yaji; Etou, Hironori; Kikuchi, Katsuaki; and Itagaki, Masato, 4,647,271, Cl. 416-186.00R.
- Itagaki, Tadashi; Gomi, Hidehito; and Komatsubara, Masahiko, to Pioneer Electronic Corporation. Electro-vibration transducer. 4,675,907, 6-23-87, Cl. 381-152.000.
- Itagaki, Takafumi, to Tamatoshi Industries Limited. Structure for coupling a bar-like member. 4,684,266, 8-4-87, Cl. 403-407.100.
- Itagaki, Takaharu; Kusano, Hiroshi; Miyata, Eiji; and Kubota, Hirohisa, to Mitsubishi Chemical Industries Ltd. Separating agent with fluoroalkyl group. 4,696,745, 9-29-87, Cl. 210-502.100.
- Itagaki, Takuo: *See—*
  - Niiho, Masaaki; Itoh, Kiyoshi; Suzuki, Shinichi; Itagaki, Takuo; and Tsuda, Koji, 4,636,068, Cl. 356-5.000.
- Itagaki, Takushi: *See—*
  - Sato, Kazuhiko; Nakamura, Genshiro; and Itagaki, Takushi, 4,701,572, Cl. 136-258.000.
- Itahana, Hiroshi; and Usui, Yoshinori, to Hitachi, Ltd. Apparatus for vapor-cooling a semiconductor. 4,694,323, 9-15-87, Cl. 357-82.000.
- Itai, Reiichi: *See—*
  - Hirakata, Kaoru; Mochizuki, Masaaki; Kanai, Hideo; and Itai, Reiichi, 4,687,565, Cl. 204-258.000.
- Itakiyo, Masanori: *See—*
  - Iseki, Masahide; Yoshiyama, Toshio; Kajita, Hiroshi; Itakiyo, Masanori; Kusumoto, Hiroshi; Kawamori, Yoshizo; and Kawamoto, Masuo, 4,668,076, Cl. 355-15.000.
  - Iseki, Masahide; Yoshiyama, Toshio; Kajita, Hiroshi; Itakiyo, Masanori; Kusumoto, Hiroshi; Kawamori, Yoshizo; and Kawamoto, Masuo, 4,674,859, Cl. 355-3.0FU.
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- Itako, Eiji: *See—*
  - Hayashi, Yukichi; Itako, Eiji; and Yasuhara, Masahiro, 4,654,800, Cl. 364-479.000.
  - Hayashi, Yukichi; Itako, Eiji; and Yasuhara, Masahiro, 4,679,150, Cl. 364-479.000.
- Itakura, Keiichi; and Riggs, Arthur D., to Genentech, Inc. Recombinant cloning vehicle microbial polypeptide expression. 4,704,362, 11-3-87, Cl. 435-253.000.
- Itakura, Sakae; and Morikawa, Osamu, to Hitachi, Ltd. Multilayer printed circuit board. 4,636,919, 1-13-87, Cl. 361-414.000.
- Itakura, Tetsuro; Kasagi, Yoshitaka; Koyama, Mikio; and Nakagawara, Chikashi, to Kabushiki Kaisha Toshiba. Phased lock loop synchronous detecting system with an automatic frequency tuning circuit. 4,709,408, 11-24-87, Cl. 455-260.000.
- takura, Tohru, to Fujitsu Limited. Semiconductor memory device. 4,695,978, 9-22-87, Cl. 365-51.000.
- takura, Toru; Ohara, Yuji; and Horikawa, Kazuo, to Fuji Photo Film Co., Ltd. Method of mounting galvanometer and means for mounting same. 4,659,180, 4-21-87, Cl. 350-320.000.
- takura, Yoshio: *See—*
  - Futamura, Kenichiro; Ohtsu, Keiichiro; Fukuoka, Tatsuhiko; Takenaka, Kenji; Itakura, Yoshio; and Koga, Hiroshi, 4,641,570, Cl. 92-71.000.
- tal Idee s.r.l.: *See—*
  - Cantoni, Angelo, 4,664,088, Cl. 123-557.000.
- talcaps S.p.A.: *See—*
  - Taragna, Luigi; and Giovannelli, Antonio, 4,664,276, Cl. 215-249.000.
- Italfarmaco S.A.: *See—*
  - Bertelli, Alberto, 4,654,373, Cl. 514-690.000.
- Italiano, Pietro: *See—*
  - Sisti, Giorgio; Italiano, Pietro; Riva, Ermete; and Tosi, Bruno, 4,644,779, Cl. 73-38.000.
- Italimpianti Societa Italiana Impianti p.A.: *See—*
  - Corato, Renzo; Ganapini, Giulio; Meier, Hans-Anton; Poggi, Mauro; Rosso, Antonio; and Sanchioni, Sergio, 4,674,975, Cl. 432-11.000.
- Italimpianti S.p.A.: *See—*
  - Funghini, Augusto; Schwab, Dieter; and Springer, Helmut, 4,648,837, Cl. 432-122.000.
- Italkali Societa Italiana Sali Alcalini S.p.A.: *See—*
  - Vitellaro, Antonio; and Sanfilippo, Giovanni, 4,668,242, Cl. 23-313.00R.
- Italora S.p.A.: *See—*
  - Mustarelli, Piercarlo; Lupoli, Franco; and Negri, Emilio, 4,699,228, Cl. 177-212.000.
- Italtel Societa Italiana Telecomunicazioni SpA: *See—*
  - Campanini, Giorgio, 4,654,784, Cl. 364-200.000.
  - Campanini, Giorgio, 4,700,292, Cl. 364-200.000.
  - D'Angio, Aldo; and Regola, Claudio, 4,658,399, Cl. 371-5.000.
- Italtractor Meccanica ITM S.p.A.: *See—*
  - Crotti, Aldo, 4,640,559, Cl. 305-11.000.
  - Crotti, Aldo; and Berselli, Orlando, 4,688,805, Cl. 277-84.000.
- Italvacuum di Ing. P. Debolini & C. S.A.S.: *See—*
  - Debolini, Paolo, 4,698,917, Cl. 34-92.000.
- Itani, Abdallah M.; Dietz, Peter W.; and Carlson, Gerald J., to General Electric Company. False triggering protection for switching device of a capacitive load pulser circuit. 4,680,532, 7-14-87, Cl. 323-240.000.
- Itani, Abdallah M.; Carlson, Gerald J.; and Dietz, Peter W., to General Electric Company. Protection arrangement for switching device of a capacitive load pulser circuit. 4,680,533, 7-14-87, Cl. 323-240.000.
- Itani, Jun, to Ohhatsu Kabushiki Kaisha. Noise converter. 4,635,753, 1-13-87, Cl. 181-279.000.
- Itani, Kiyoshi; Tokizaki, Hisashi; Funagoshi, Tomohide; Ohtsuka, Nobuo; Ohkubo, Katsuhiro; and Katsuki, Hikaru, to Sanyo Electric Co., Ltd. Inverter apparatus. 4,698,744, 10-6-87, Cl. 364-140.000.
- Itano, Tsutomu; and Tsuzuki, Mitsuo, to NEC Corporation. Valve element for use in an ink-jet printer head. 4,654,676, 3-31-87, Cl. 346-140.00R.
- Itaru Todoriki, Director of Agency of Industrial Science and Technology: *See—*
  - Matsuura, Junichi; Kobayashi, Yoshiteru; Kishiro, Osamu; and Inagaki, Yumiko, 4,662,905, Cl. 55-158.000.
- Itatani, Hiroshi: *See—*
  - Ishimori, Shoso; Ishiizumi, Seiichi; Ishida, Mikio; and Itatani, Hiroshi, 4,674,287, Cl. 60-416.000.
- Itay, Samuel: *See—*
  - Nevo, Zvi; and Itay, Samuel, 4,642,120, Cl. 623-16.000.
- Itaya, Hiroshi; and Saito, Goro, to Anritsu Corporation. Heterodyne type signal-measuring method and a measuring apparatus including automatic detuning correction means. 4,710,702, 12-1-87, Cl. 324-79.00R.
- Itaya, Masahiko; and Haneda, Satoshi, to Konishiroku Photo Industry Co., Ltd. Electrostatic image reproducing apparatus. 4,664,505, 5-12-87, Cl. 355-15.000.
- Itaya, Masahiko: *See—*
  - Shoji, Hisashi; Haneda, Satoshi; Hiratsuka, Seiichiro; Fuma, Hiroshi; Soraa, Shinobu; Itaya, Masahiko; Tamura, Akihiko; and Hayakawa, Kazushi, 4,669,864, Cl. 355-15.000.
- Itaya, Reijiro, to Kabushiki Kaisha Itaya. Coil spring manufacturing apparatus. 4,669,289, 6-2-87, Cl. 72-23.000.
- Itaya, Takashi: *See—*
  - Kikuchi, Hiroshi; Koshida, Yoshinori; and Itaya, Takashi, 4,676,681, Cl. 400-247.000.
- Iteguchi, Junichi: *See—*
  - Ikeda, Masaaki; Takahara, Wataru; Iteguchi, Junichi; Satoh, Hiroyuki; and Itoh, Shyuji, 4,642,732, Cl. 361-321.000.
- Itek Corporation: *See—*
  - Aldrich, Ralph E.; and Daigneault, Steven M., 4,674,848, Cl. 350-610.000.
  - Anthony, Frank M.; Aldrich, Ralph E.; and Daigneault, Steven M., 4,657,358, Cl. 350-610.000.
  - Atkins, Arland A., 4,654,876, Cl. 382-54.000.
  - Aufiero, James M., 4,710,966, Cl. 382-69.000.
  - Barrett, John R., 4,682,032, Cl. 250-352.000.
  - Barrett, John R., 4,689,246, Cl. 427-76.000.
  - Chang, I-Cheng, 4,637,689, Cl. 350-372.000.
  - Howell, Richard H.; and MacGovern, Alan J., 4,637,724, Cl. 356-353.000.
  - Hutchin, Richard A., 4,688,086, Cl. 358-95.000.
  - Hutchin, Richard A., 4,696,573, Cl. 356-353.000.
  - MacGovern, Alan J.; and Hutchin, Richard A., 4,692,027, Cl. 356-353.000.
  - Plante, Roland L.; and McKenney, Austin L., 4,655,563, Cl. 350-611.000.
  - Wojcik, David R.; Jones, Richard J.; and Aufiero, James M., 4,680,628, Cl. 358-111.000.
  - Wojcik, David R.; and Studwell, Thomas W., 4,689,823, Cl. 382-41.000.
  - Yarborough, John R.; and Dickinson, Dale F., 4,652,817, Cl. 324-77.00K.
- Itek Graphix Corp.: *See—*
  - Ebner, Peter R.; Ebner, Emanual C., Jr.; Shaw, John H.; Miller, John G.; and Gorelick, Donald E., 4,691,987, Cl. 350-96.230.

Itemadani, Eiji: *See—*

Hata, Kanji; Itemadani, Eiji; and Maruyama, Masahiro, 4,708,232, Cl. 198-346.100.

Iten, Beat: *See—*

Bohler, Erwin; Iten, Beat; and Bruderer, Werner, 4,656,922, Cl. 89-33.170.

Iten, Clemens A., to American Safety Razor Company. One piece razor blade holder. 4,706,385, 11-17-87, Cl. 30-169.000.

Itezono, Toshiyuki, to Oki Electric Industry Co., Ltd. Facsimile system. 4,710,951, 12-1-87, Cl. 379-100.000.

Itho, Yasuo; Kato, Hideo; Ogawa, Nobuo; Yamagishi, Kagari; Koshinaka, Eiichi; and Nishino, Hiroyuki, to Hokuriku Pharmaceutical Co., Ltd. Derivatives of 3-pyrrolidinopropiophenone and a process for preparation thereof. 4,638,009, 1-20-87, Cl. 514-428.000.

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Cicin-Sain, Ivo, 4,682,428, Cl. 37-104.000.

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Itil, Turan M.: *See—*

Johansson, Nils E.; Eralp, Emin; and Itil, Turan M., 4,683,892, Cl. 128-639.000.

Ito, Akashi: *See—*

Nakatsuyama, Takashi; and Ito, Akashi, 4,656,617, Cl. 369-45.000.

Ito, Akinori; Akazawa, Michitada; and Kondo, Shiro, to Alps Electric Co., Ltd. Air conditioner control system. 4,702,307, 10-27-87, Cl. 165-42.000.

Ito, Akio; Mochizuki, Hideaki; Sunohara, Masaaki; and Tamura, Tooru, to Matsushita Electric Industrial Co., Ltd. Substrate for an optical disc. 4,701,770, 10-20-87, Cl. 346-135.100.

Ito, Akira; and Kawashima, Kouzou, to Tokyo Shibaura Denki Kabushiki Kaisha. Metal vapor discharge lamp having a starting device of a thermal switch type. 4,672,270, 6-9-87, Cl. 315-73.000.

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Ito, Akitoshi: *See—*

Kodama, Mikio; and Ito, Akitoshi, 4,657,975, Cl. 525-74.000.

Kodama, Mikio; Ito, Akitoshi; Yano, Motoichi; Fujiwara, Takayoshi; and Umeyama, Satoshi, 4,705,827, Cl. 525-67.000.

Ito, Bunsaku; Fukuda, Kimio; and Hara, Rikio, to Ube Industries, Ltd. Metal polyamide adhesive laminates. 4,690,856, 9-1-87, Cl. 428-215.000.

Ito, Eizo, to Mitsubishi Denki Kabushiki Kaisha. Fluorescent coating for uv sensitive semiconductor device. 4,707,725, 11-17-87, Cl. 357-72.000.

Ito, Fumio: *See—*

Shinoda, Nobuhiko; Sakurada, Nobuaki; Kawamura, Masaharu; Ito, Tadashi; Ito, Fumio; and Murakami, Hiroyashu, 4,664,496, Cl. 354-420.000.

Ito, Fumitaka: *See—*

Overman, Larry E.; and Ito, Fumitaka, 4,675,325, Cl. 514-299.000.

Ito, Hachidai: *See—*

Yamaura, Mitsuru; Inagaki, Junichi; and Ito, Hachidai, 4,709,295, Cl. 361-80.000.

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Migita, Shuiti; and Ito, Hajime, 4,657,454, Cl. 409-234.000.

Yano, Naomichi; Ito, Hajime, and Tanaka, Shigeru, 4,681,154, Cl. 165-47.000.

Ito, Hayami: *See—*

Ogawa, Takayuki; Ito, Hideaki; Kimura, Naokazu, Ito, Hayami; Tatsumi, Shuhei; Takao, Shoichi; Suzuki, Nitaro; Watanabe, Takashi; Shinano, Kunizo; Kuwabara, Takashi; and Aoki, Kaoru, 4,712,742, Cl. 241-20.000.

Ito, Hideaki: *See—*

Kamei, Takao; Ono, Fuminobu; Komai, Keiichi; Wakabayashi, Takeshi; Ogawa, Takayuki; Ito, Hideaki, and Shirakawa, Kiyoshi, 4,702,745, Cl. 44-10.00D.

Ogawa, Takayuki; Ito, Hideaki; Kimura, Naokazu; Ito, Hayami; Tatsumi, Shuhei; Takao, Shoichi; Suzuki, Nitaro; Watanabe, Takashi; Shinano, Kunizo; Kuwabara, Takashi, and Aoki, Kaoru, 4,712,742, Cl. 241-20.000.

Ito, Hideo: *See—*

Tsuchida, Shin; and Ito, Hideo, 4,707,195, Cl. 148-11.50A.

Ito, Hideya, to Mitsubishi Denki Kabushiki Kaisha. Shadow mask mount for color picture tube. 4,700,105, 10-13-87, Cl. 313-407.000.

Ito, Hideyuki; and Takanashi, Nobuyasu, to Terumo Corporation. Method of manufacturing a medical package. 4,689,099, 8-25-87, Cl. 156-69.000.

Ito, Hiraku: *See—*

Inagaki, Hiroshi; Miyamoto, Takeaki; Ito, Hiraku; and Shibata, Tohru, 4,708,951, Cl. 514-57.000.

Noishiki, Yasuharu; Kodaira, Kazuhiko; Furuse, Masayasu; Miyata, Teruo; Miyamoto, Takeaki; and Ito, Hiraku, 4,690,973, Cl. 525-54.100.

Ito, Hirohito: *See—*

Shintani, Yasuo; Sakuma, Kazuhiro; Yabe, Hisashi; and Ito, Hirohito, 4,658,647, Cl. 73-517.00B.

Ito, Hiromitsu: *See—*

Mitsukuchi, Kunio; Ito, Hiromitsu; Eguchi, Isamu; Hirasato, Bunji; and Furuhata, Takashi, 4,701,583, Cl. 200-148.00B.

Ito, Hiroshi; and Kugo, Masaru, to Hitachi, Ltd.; and Hitachi Automotive Engineering Co., Ltd. Liquid crystal display device having louvered filter and strip electrodes. 4,653,863, 3-31-87, Cl. 350-339.00F.

Ito, Hiroshi; and Kimura, Tomohiro, to Canon Kabushiki Kaisha. Imaging holding member. 4,658,756, 4-21-87, Cl. 118-652.000.

Ito, Hiroshi; and Kugo, Masaru, to Hitachi, Ltd.; and Hitachi Automotive Engineering Co., Ltd. Liquid crystal display device having fluorescent tube illuminator. 4,664,481, 5-12-87, Cl. 350-345.000.

Ito, Hiroshi; Kugo, Masaru; and Watanate, Sizuhisa, to Hitachi, Ltd. and Hitachi Automotive Engineering Co., Ltd. Color liquid crystal display device with interdigited segment electrodes. 4,697,886, 10-6-87, Cl. 350-336.000.

Ito, Hiroshi; and Mizutani, Yoshiki, to Mitsubishi Denki Kabushiki Kaisha. Contour detecting filter device using PAL samples of composite video signals without separation of luminance signals therefrom. 4,706,113, 11-10-87, Cl. 358-37.000.

Ito, Hiroshi: *See—*

Frechet, Jean M. J.; Ito, Hiroshi; MacDonald, Scott A.; and Willson, Carlton G., 4,657,845, Cl. 430-326.000.

Kugo, Masaru; Igarashi, Osamu; Katogi, Kozo; Ito, Hiroshi; and Nakamura, Mamoru, 4,673,252, Cl. 350 V-339.00F.

Mizutani, Yoshiki; and Ito, Hiroshi, 4,677,461, Cl. 358-37.000.

Okada, Mitsuhiko; and Ito, Hiroshi, 4,682,519, Cl. 74-868.000.

Takeda, Takao; Yamazaki, Hitoshi; Taniguchi, Yoshiteru; Tanaka Norihiko; Ito, Hiroshi; Uchida, Minoru; and Imai, Jun, 4,703,22 Cl. 313-634.000.

Tsunooka, Tsutomu; Saito, Shigeo; Yamamoto, Takashi; and Ito, Hiroshi, 4,675,123, Cl. 252-62.900.

Yoshizawa, Kenji; Komura, Hirotsugu; Kodama, Hitoshi; Ohnuki, Kazushi; Shoda, Isao; Magome, Kazuo; and Ito, Hirosh 4,673,846, Cl. 315-248.000.

Ito, Hiroyasu: *See—*

Furuhashi, Kenshi; Ito, Hiroyasu; and Fukao, Kouichi, 4,647,7 Cl. 200-61.270.

Ito, Hisao: *See—*

Hasegawa, Kunio; Shimizu, Tasuku; Horiuchi, Tetsuo; and Ito, Hisao, 4,687,625, Cl. 376-292.000.

Ito, Hisatsugu; and Uota, Kousaku, to Mitsubishi Denki Kabushiki Kaisha. Automotive navigation system. 4,677,450, 6-30-87, Cl. 364-449.000.

Ito, Hitoshi; and Moriya, Takahiko, to Kabuskiki Kaisha Toshiba. Semiconductor device. 4,699,801, 10-13-87, Cl. 427-53.100.

Ito, Isamu: *See—*

Hongo, Suzuaki; Niwa, Minoru; Hashiba, Takahiro; Harata, Mitsuru; Hirata, Ichiro; Ito, Isamu; and Sonobe, Akihiko, 4,709,944 Cl. 280-777.000.

Ito, Jinichi: *See—*

Miyazaki, Kiyoshi; Ito, Jinichi; and Naito, Hayato, 4,658,190, Cl. 318-254.000.

Ito, Kaname: *See—*

Kondo, Tatsuhei; Ito, Kaname; Ikeda, Shoichiro; Umeno, Masayoshi; and Ichikawa, Kenji, 4,673,391, Cl. 604-141.000.

Ito, Katsu; Shinabe, Munehiro; Miyajima, Akira; Hashimoto, Nobuyuki; Ohno, Hideshi; Tsuzuki, Akira; Morokawa, Shigeru; and Natori, Minoru, to Citizen Watch Co., Ltd. Television receiver having a liquid crystal display device. 4,663,670, 5-5-87, Cl. 358-245.000.

Ito, Katsu, to Citizen Watch Co. Ltd. Television receiver having a liquid crystal display device. 4,694,347, 9-15-87, Cl. 358-236.000.

Ito, Katsumi; Okuyama, Shigeaki; Nakamura, Norimi; Kuroiwa, Yoshizo; Fujiwara, Kouji; Nakamura, Kunisuke; Fujiwara, Osam; Yoshida, Jituo; and Kobayashi, Mitsugu, to Kubota, Ltd. Automatic differential locking system for a working vehicle. 4,671,376, 6-9-87, Cl. 180-249.000.

Ito, Katsumi: *See—*

Sugihara, Hirosada; Nishikawa, Kohei; and Ito, Katsumi, 4,638,00 Cl. 514-211.000.

Ito, Katsunori: *See—*

Abe, Tomoaki; Fujisawa, Hideya; Omori, Norio; Kinugawa, Masumi; Ito, Katsunori; Akiyama, Susumu; Mizuno, Tiaki; and Yamada, Toshitaka, 4,713,765, Cl. 364-431.050.

Akiyama, Susumu; Ito, Katsunori; Yamada, Toshitaka; Mizuno, Tiaki; and Kinugawa, Masumi, 4,669,306, Cl. 73-204.000.

Akiyama, Susumu; Ito, Katsunori; Hirabayashi, Yuzi; Kinugawa, Masumi; and Omori, Norio, 4,671,242, Cl. 123-486.000.

Ina, Katsuhiro; Sato, Yoshihisa; Kinugawa, Masumi; Suzuki, Atsushi; Ito, Katsunori; Akiyama, Susumu; Mizuno, Tiaki; Yamada, Toshitaka; and Abe, Tomoaki, 4,665,745, Cl. 73-204.000.

Ito, Kazuhiko; Yonehara, Jun; Tanigawa, Yoshinari; and Yamaguchi, Minoru, to NGK Insulators, Ltd. Waste heat recovery apparatus. 4,651,814, 3-24-87, Cl. 165-47.000.

Ito, Kazuo; Terabe, Seiji; and Harada, Shozo, to Inax Corporation. Method for producing high-strength inorganic cement articles. 4,663,104, 5-5-87, Cl. 264-60.000.

Ito, Kazuo; Kudo, Toshiyuki; and Hama, Ritsuo, to Sanyo Electric Co., Ltd. Thermally improved photodetector having a roughened, recessed, raised or inclined light receiving surface. 4,697,074, 9-29-87, Cl. 250-211.00R.

Ito, Kazuo: *See—*

Terabe, Seiji; and Ito, Kazuo, 4,643,921, Cl. 428-15.000.

Ito, Kazuyuki: *See—*

Miura, Yasunao; Yoshida, Hitoshi; Takeuchi, Yukihisa; and Ito, Kazuyuki, 4,670,304, Cl. 427-227.000.

Ito, Keiko; Ito, Michiyasu; Tsuji, Shoichi; and Suzuki, Hisatosi, to Mitsui Toatsu Chemicals, Inc. Process for producing porous films involving a stretching step and the resultant product. 4,705,812, 11-10-87, Cl. 521-92.000.

to. Keiko; Ito, Michiyasu; Tsuji, Shoichi; Suzuki, Hisatosi; and Ito, Shoichi, to Mitsui Toatsu Chemicals, Inc. Process for producing porous films involving a stretching step and the resultant film. 4,705,813, 11-10-87, Cl. 521-92.000.

to. Keishi: *See—*
  Shiba, Toyoaki; Goto, Seiichi; and Ito, Keishi. 4,702,024, Cl. 37-67.000.

to. Keizo; and Murota, Syoji, to Toyoda Gosei Co., Ltd. Air intake grille. 4,653,385, 3-31-87, Cl. 98-40.240.

o. Keizo: *See—*
  Ohtaka, Hiroshi; Kanazawa, Toshiro; Ito, Keizo; and Tsukamoto, Goro. 4,663,325, Cl. 514-255.000.
  Ohtaka, Hiroshi; Kanazawa, Toshiro; Ito, Keizo; and Tsukamoto, Goro. 4,703,048, Cl. 514-255.000.
  Yoshino, Koichiro; Seko, Norihiko; Yokota, Koichi; Ito, Keizo; and Tsukamoto, Goro. 4,659,726, Cl. 514-365.000.

o. Ken; and Kawabe, Taketoshi, to Nissan Motor Co., Ltd. Vehicle motion estimating system. 4,679,808, 7-14-87, Cl. 280-91.000.

o. Ken; Inoue, Naohiko; and Kawabe, Taketosi, to Nissan Motor Co., Ltd. Steering control system for wheeled vehicle. 4,679,809, 7-14-87, Cl. 280-91.000.

o. Ken; and Inoue, Naohiko, to Nissan Motor Co., Ltd. System for controlling cornering characteristics of wheeled vehicle. 4,690,431, 9-1-87, Cl. 280-771.000.

o. Ken, to Nissan Motor Co., Ltd. Vehicular rear wheel steer angle control system. 4,706,978, 11-17-87, Cl. 280-91.000.

o. Ken: *See—*
  Kawabe, Taketoshi; and Ito, Ken. 4,706,979, Cl. 280-91.000.
  Kawabe, Taketosi; and Ito, Ken. 4,706,771, Cl. 180-142.000.
  Kawai, Akio; Ito, Ken; and Iwamoto, Hideo. 4,639,676, Cl. 324-380.000.

o. Kenji, to Kabushiki Kaisha Toshiba. Digital time interval measuring apparatus. 4,695,781, 9-22-87, Cl. 318-603.000.

o. Kenji: *See—*
  Akiyama, Toshiyuki; Koike, Norio; Ito, Kenji; Ogino, Takeshi; and Nagahara, Shuusaku. 4,675,887, Cl. 377-58.000.
  Shimba, Satoru; Iwamuro, Masao; Ito, Kenji; Suzuki, Katutoyo; and Hamada, Fumio. 4,666,825, Cl. 430-385.000.

o. Kentaro; Kubo, Tetsuya; and Yamauchi, Yukio, to Hochiki Corporation. Gas sensor. 4,661,320, 4-28-87, Cl. 422-86.000.

o. Kenzo: *See—*
  Onishi, Masayuki; Ito, Kenzo; and Asahi, Morio. 4,670,282, Cl. 426-508.000.
  Onishi, Masayuki; Ito, Kenzo; and Asahi, Morio. 4,672,179, Cl. 219-441.000.
  Takanabe, Kazunori; Yamamoto, Masaki; Ito, Kenzo; and Fujinami, Hiroshi. 4,646,089, Cl. 340-995.000.
  Takanabe, Kazunori; Yamamoto, Masaki; Ito, Kenzo; and Fujinami, Hiroshi. 4,675,676, Cl. 340-995.000.

, Kimiaki; Ueno, Tetsuo; Ueno, Koichi; and Ishii, Susumu, to Tokyo Keiki Company, Ltd. Apparatus for steering joystick of ship. 4,691,659, 9-8-87, Cl. 114-144.00R.

. Kiyofumi: *See—*
  Inumaru, Susumu; Yamauchi, Shigenori; Shibue, Kazuhisa; Sano, Hideo; and Ito, Kiyofumi. 4,676,830, Cl. 75-249.000.

, Kiyonobu: *See—*
  Nakamura, Kazuharu; Matsumoto, Motoki; Kondo, Akinobu; and Ito, Kiyonobu. 4,710,125, Cl. 431-22.000.

, Kiyoo: *See—*
  Hori, Ryoichi; and Ito, Kiyoo. 4,686,650, Cl. 365-189.000.
  Kimura, Katsutaka; Hori, Ryoichi; Ito, Kiyoo; and Sunami, Hideo. 4,641,279, Cl. 365-149.000.

. Kiyotaka: *See—*
  Takaya, Takao; Murata, Masayoshi; and Ito, Kiyotaka. 4,649,142, Cl. 514-274.000.

. Koichi: *See—*
  Kawasaki, Ryoji; Yoshizawa, Kazuhiro; Yotsutani, Akio; Saegusa, Noboru; Ito, Koichi; and Huse, Syozi. 4,679,244, Cl. 455-54.000.

, Kojiro; Murakami, Kunio; Kishida, Minoru; and Shimomura, Takehiko, to Unitika Ltd. Matte film. 4,668,569, 5-26-87, Cl. 428-323.000.

. Kojiro; Okamoto, Takashi; Murakami, Kunio; and Kishida, Minoru, to Unitika Ltd. Polytetramethyleneadipamide film. 4,699,973, 10-13-87, Cl. 528-335.000.

. Kojiro: *See—*
  Hiroi, Kazuo; and Ito, Kojiro. 4,698,745, Cl. 364-165.000.
  Hiroi, Kazuo; and Ito, Kojiro. 4,714,988, Cl. 364-165.000.

. Kokichi: *See—*
  Harada, Takamasa; Taguchi, Masaaki; and Ito, Kokichi. 4,662,721, Cl. 350-339.00R.

. Kuninori: *See—*
  Horiki, Seinosuke; Makino, Reiji; Ito, Kuninori; and Unno, Tetsuji. 4,714,633, Cl. 427-282.000.

. Kunio: *See—*
  Kimura, Kiyoshi; Okamoto, Yukio; Miwa, Tadashi; Fukuchi, Masakazu; Tarumi, Noriyoshi; and Ito, Kunio. 4,645,327, Cl. 355-3.00R.

. Makoto; Mori, Terumi; and Takahashi, Hiroyoshi, to Nippon Gakki eizo Kabushiki Kaisha. Key touch adjuster for a keyboard musical nstrument. 4,686,879, 8-18-87, Cl. 84-440.000.

. Makoto: *See—*
  Abe, Nobuhide; Adachi, Minoru; Ito, Makoto; and Uchida, Toshiya. 4,698,774, Cl. 364-477.000.

. Masaaki; and Kobayashi, Toshio, to Victor Company of Japan, Ltd. Convergence correction apparatus. 4,704,564, 11-3-87, Cl. 15-368.000.

Ito, Masaaki: *See—*
  Ando, Minato; Ito, Masaaki; and Mizuno, Fumio. 4,643,985, Cl. 501-136.000.
  Ando, Minato; Ito, Masaaki; and Mizuno, Fumio. 4,668,646, Cl. 501-136.000.

Ito, Masahiro; and Murayama, Noboru, to Ricoh Company, Ltd. Method of processing gradation information. 4,675,831, 6-23-87, Cl. 364-518.000.

Ito, Masahiro; Murayama, Noboru; Suziku, Koichi; Sato, Kei; and Sato, Tsutomu, to Ricoh Company, Ltd. Method of processing gradation information with variable magnification. 4,698,778, 10-6-87, Cl. 364-518.000.

Ito, Masahiro; Kobayashi, Masaharu; and Arai, Takao, to Hitachi, Ltd. Method of transmitting digital data in which error detection codes are dispersed using alternate delay times. 4,716,567, 12-29-87, Cl. 371-40.000.

Ito, Masahiro: *See—*
  Suzuki, Koichi; Murayama, Noboru; Ito, Masahiro; and Sato, Kei. 4,698,691, Cl. 358-283.000.

Ito, Masaji; Midorikawa, Akira; Shinada, Masayuki; Hirono, Tatsuo; Yoshino, Hirobumi; and Shibusawa, Mitsuo, to Ricoh Company, Ltd. Guidance device for manipulation of machine. 4,682,158, 7-21-87, Cl. 340-679.000.

Ito, Masaji: *See—*
  Midorikawa, Akira; Ito, Masaji; Shinada, Masayuki; Hirono, Tatsuo; Yoshino, Hirobumi; and Shibusawa, Mitsuo. 4,677,310, Cl. 307-64.000.

Ito, Masami: *See—*
  Taga, Yutaka; Morisawa, Kunio; Uno, Toshihiko; Ito, Masami; and Haneda, Takashi. 4,669,562, Cl. 180-53.100.

Ito, Masanori; Akiba, Seiji; and Ishikawa, Hiroyasu, to Hitachi Koki Company, Ltd. Portable power tool equipped with dust collector. 4,675,999, 6-30-87, Cl. 30-124.000.

Ito, Masaru: *See—*
  Yonezawa, Seiji; Ohtake, Masatoshi; Ito, Masaru; Tsuyoshi, Toshiaki; Ichino, Kazuo; and Nakagaki, Harushige. 4,707,816, Cl. 369-44.000.

Ito, Masashi; Ohashi, Toshio; and Ui, Katsumi, to Toyo Ink Mfg. Co., Ltd.; and Toyota Jidosha Kabushiki Kaisha. Liquid colorant for ABS resins. 4,639,272, 1-27-87, Cl. 106-243.000.

Ito, Masashi; Yasuda, Hiroshi; Nakamura, Hiroyuki; and Matsuno, Toshiki, to Matsushita Electric Industrial Co., Ltd. Objective lens driving apparatus for optical disc player. 4,646,283, 2-24-87, Cl. 369-256.000.

Ito, Masaya: *See—*
  Izumiya, Shunzo; Okuyama, Yuji; and Ito, Masaya. 4,689,457, Cl. 219-69.00W.
  Obara, Haruki; Ito, Masaya; and Tonamura, Masashi. 4,678,884, Cl. 219-69.00P.

Ito, Masayo: *See—*
  Enari, Hiroyuki; Konai, Yutaka; Akiba, Uichi; and Ito, Masayo. 4,668,815, Cl. 560-55.000.

Ito, Masayoshi: *See—*
  Ogasawara, Sadanori; Hanafusa, Takashi; Kariya, Katsuhide; Ito, Masayoshi; and Shitori, Yoshiyasu. 4,698,332, Cl. 514-42.000.
  Ogawa, Tomoya; Sugimoto, Mamoru; Shitori, Yoshiyasu; and Ito, Masayoshi. 4,694,076, Cl. 536-17.200.
  Ogura, Haruo; Furuhata, Kimio; Osawa, Toshiaki; Toyoshima, Satoshi; Shitori, Yoshiyasu; Ito, Masayoshi; and Yoshimura, Shoji. 4,691,012, Cl. 536-23.000.
  Shibayama, Shohei; Yoshimura, Shoji; Ito, Masayoshi; Shitori, Yoshiyasu; and Ogawa, Tomoya. 4,663,443, Cl. 536-4.100.
  Shibayama, Shohei; Matsuzaki, Yuzi; Yoshimura, Shoji; Ito, Masayoshi; Shitori, Yoshiyasu; and Ogawa, Tomoya. 4,675,391, Cl. 536-17.400.

Ito, Masazumi; Irie, Yutaka; Ikenoue, Yoshikazu; and Nakamura, Minoru, to Minolta Camera Kabushiki Kaisha. Copying machine having a capability of reproducing images at different magnifications. 4,669,858, 6-2-87, Cl. 355-8.000.

Ito, Masazumi, to Minolta Camera Kabushiki Kaisha. Copying machine control system. 4,685,797, 8-11-87, Cl. 355-14.0SH.

Ito, Masazumi, to Minolta Camera Kabushiki Kaisha. Copying machine that copies halves of a document on different recording medium surfaces. 4,702,589, 10-27-87, Cl. 355-14.0SH.

Ito, Masazumi, to Minolta Camera Kabushiki Kaisha. Copying apparatus with a document feeder. 4,705,393, 11-10-87, Cl. 355-14.0SH.

Ito, Masazumi: *See—*
  Imaizumi, Masaru; Ito, Masazumi; and Shibazaki, Kenji. 4,634,262, Cl. 355-14.00R.
  Shibazaki, Kenji; Irie, Yutaka; Ito, Masazumi; and Murata, Tomoji. 4,644,499, Cl. 364-900.000.

Ito, Michiaki: *See—*
  Oida, Susumu; Munemoto, Yoshikazu; Ueda, Masami; and Ito, Michiaki. 4,711,105, Cl. 68-23.200.

Ito, Michio; Kambayashi, Kiyoshi; and Takezawa, Junichi, to Nippon Seiki Co., Ltd.; and Nissei Service Co., Ltd. Transfer sheet. 4,677,015, 6-30-87, Cl. 428-201.000.

Ito, Michio; Shinohara, Yukimasa; and Imai, Nobuhiro, to Canon Kabushiki Kaisha. Scanning optical system. 4,687,283, 8-18-87, Cl. 350-6.800.

Ito, Michio: *See—*
  Tada, Hideki; Ito, Michio; Tanaka, Kazuki; Kume, Nobuyuki; Takei, Tetsuya; and Kisu, Hiroki. 4,674,865, Cl. 355-15.000.
  Tsutsui, Satoshi; Sudo, Tadamitsu; and Ito, Michio. 4,672,045, Cl. 436-518.000.

- Ito, Michiyasu: *See*—
  - Ito, Keiko; Ito, Michiyasu; Tsuji, Shoichi; and Suzuki, Hisatosi, 4,705,812, Cl. 521-92.000.
  - Ito, Keiko; Ito, Michiyasu; Tsuji, Shoichi; Suzuki, Hisatosi; and Ito, Shoichi, 4,705,813, Cl. 521-92.000.
  - Matsumura, Shuji; Ito, Michiyasu; Tsuji, Syoichi; Suzuki, Hisatosi; and Ito, Syoichi, 4,699,733, Cl. 282-521.000.
- Ito, Mikiya: *See*—
  - Ichikawa, Wataru; Matsuki, Yuji; Hirata, Yoshiaki; and Ito, Mikiya, 4,695,235, Cl. 425-29.000.
- Ito, Minoru, to Brother Kogyo Kabushiki Kaisha. Buttonholder for zigzag sewing machine. 4,662,296, 5-5-87, Cl. 112-449.000.
- Ito, Minoru: *See*—
  - Aoki, Shuichi; Kumagai, Katsuyoshi; Haga, Akihiko; and Ito, Minoru, 4,674,592, Cl. 181-170.000.
- Ito, Mitsuko: *See*—
  - Kaneyasu, Masayoshi; Arima, Hideo; Ito, Mitsuko; Iwanaga, Shoichi; Sato, Nobuo; Noro, Takanobu; Ikagami, Akira; and Isogai, Tokio, 4,638,443, Cl. 364-497.000.
- Ito, Mitsuo: *See*—
  - Yoshida, Isao; Okabe, Takeaki; Ito, Mitsuo; Ashikawa, Kazutoshi; and Iijima, Tetsuo, 4,688,323, Cl. 437-29.000.
- Ito, Motoya; Takahashi, Noriyoshi; Watanabe, Masatoshi; Abukawa, Toshimi; Seya, Takeshi; Kainuma, Hiroshi; and Syutoo, Toshiyuki, to Hitachi, Ltd.; and Hitachi Cable, Ltd. Method of manufacturing electromagnetic members. 4,704,789, 11-10-87, Cl. 29-609.000.
- Ito, Noboru: *See*—
  - Ozawa, Isao; Ito, Noboru; Takizawa, Masaaki; Ohta, Yoshio; and Ijichi, Kiyoteru, 4,635,910, Cl. 267-140.100.
- Ito, Norifumi: *See*—
  - Matsubara, Tetsuyuki; Ito, Norifumi; Iwamoto, Mune; and Ando, Toshihiko, 4,699,976, Cl. 528-501.000.
- Ito, Norihiko: *See*—
  - Igarashi, Susumu; and Ito, Norihiko, 4,650,025, Cl. 180-227.000.
- Ito, Noritsugu: *See*—
  - Suzuki, Yoshihumi; Ito, Noritsugu; and Omura, Kazuhiro, 4,676,675, Cl. 400-56.000.
- Ito, Novuei; Atsumi, Kinya; Yoshida, Hitoshi; and Atsumi, Morihiro, to Nippon Soken, Inc.; and Nippondenso Co., Ltd. Sintered ceramic heater element. 4,634,837, 1-6-87, Cl. 219-270.000.
- Ito, Novuei; Nishida, Minoru; Mizuno, Naohito; and Hattori, Tadashi, to Nippon Soken, Inc. Pressure sensor. 4,712,082, 12-8-87, Cl. 338-4.000.
- Ito, Novuei: *See*—
  - Atsumi, Morihiro; Nunogaki, Naochika; Ito, Novuei; and Mizuno, Naohito, 4,644,133, Cl. 219-270.000.
- Ito, Osamu: *See*—
  - Shiba, Daisuke; Miyashita, Iwao; and Ito, Osamu, 4,652,484, Cl. 428-286.000.
  - Yamasaki, Harumasa; Kobayashi, Takatoshi; Ito, Osamu; Sakurai, Akira; and Sumida, Yuzo, 4,666,975, Cl. 524-733.000.
  - Yoshimoto, Kyosuke; and Ito, Osamu, 4,661,942, Cl. 369-44.000.
  - Yoshimoto, Kyosuke; and Ito, Osamu, 4,689,795, Cl. 372-31.000.
- Ito, Paul H., to United States of America, Air Force. Transient test of suspension electronics for gyroscope. 4,654,582, 3-31-87, Cl. 324-73.00R.
- Ito, Roy A.: *See*—
  - Aires, Ramon H.; Clark, Charles A., Jr.; Ito, Roy A.; and Hackett, Kenneth R., 4,649,385, Cl. 379-57.000.
- Ito, Ryoichi: *See*—
  - Fujii, Masaki; Gotoh, Shiroh; Nakagawa, Hideaki; and Ito, Ryoichi, 4,680,318, Cl. 521-95.000.
- Ito, Ryozo: *See*—
  - Kakii, Toshiaki; Matsuno, Koichiro; Kawada, Osamu; Ito, Ryozo; and Nakamura, Eiji, 4,682,864, Cl. 350-511.000.
- Ito, Satoru, to Diesel Kiki Co., Ltd. Injection start advancer for fuel injection pump assembly of the fuel distribution type. 4,711,205, 12-8-87, Cl. 123-179.00L.
- Ito, Satoru: *See*—
  - Komori, Kazuhiro; Meguro, Satoshi; Ito, Satoru; Kihara, Toshimasa; and Wakimoto, Harumi, 4,653,026, Cl. 365-189.000.
- Ito, Satoshi: *See*—
  - Nakashima, Syozi; Takahashi, Akinori; Suganuma, Nobuo; and Ito, Satoshi, 4,645,662, Cl. 424-52.000.
- Ito, Seigo; and Murakami, Yoshikazu, to Sony Corporation. Apparatus for varying the magnetic field for a magnetic resonance element. 4,636,756, 1-13-87, Cl. 333-202.000.
- Ito, Seigo; and Murakami, Yoshikazu, to Sony Corporation. Magnetic apparatus including thin film YIG resonator. 4,701,729, 10-20-87, Cl. 333-219.000.
- Ito, Seigo: *See*—
  - Murakami, Yoshikazu; Ito, Seigo; Okamoto, Hiromi; and Tanaka, Hideo, 4,679,015, Cl. 333-219.000.
  - Murakami, Yoshikazu; Ito, Seigo; and Yamada, Toshiro, 4,704,739, Cl. 455-325.000.
- Ito, Seiichi: *See*—
  - Miyaji, Kenichi; Toida, Shouji; Ito, Seiichi; Iwasaki, Kazunori; and Kishida, Masatoshi, 4,675,508, Cl. 219-437.000.
- Ito, Seishi: *See*—
  - Shiokawa, Kozo; Moriya, Koichi; Goto, Toshio; Kamochi, Atsumi; Ito, Seishi; and Horita, Mitsugu, 4,666,503, Cl. 71-90.000.
- Ito, Seitoku; Iwashita, Shigeo; Kamiya, Sigeru; Noguchi, Hiroshi; and Mori, Nobuhisa, to Nippon Soken, Inc.; and Toyota Jidosha Kabushiki Kaisha. System for measuring amount of particulates exhausted from vehicle engine. 4,633,706, 1-6-87, Cl. 73-28.000.
- Ito, Shichinosuke; and Yamamoto, Fumio, to Dainippon Ink and Chemicals, Inc. Process for producing vinyl polymer. 4,672,095, 6-9-87, Cl. 525-455.000.
- Ito, Shigehiro: *See*—
  - Tajima, Osamu; and Ito, Shigehiro, 4,674,070, Cl. 369-46.000.
- Ito, Shigenori, to NGK Insulators, Ltd. Composite ceramic structur and method for manufacturing the same. 4,696,777, 9-29-87, Cl. 264-60.000.
- Ito, Shigeru: *See*—
  - Ohkawara, Eiji; and Ito, Shigeru, 4,663,695, Cl. 361-405.000.
- Ito, Shinichiro: *See*—
  - Tanaka, Morimasa; and Ito, Shinichiro, 4,698,464, Cl. 200-5.00R.
- Ito, Shintaro: *See*—
  - Iwasaki, Hiroshi; and Ito, Shintaro, 4,637,125, Cl. 29-571.000.
  - Iwasaki, Hiroshi; and Ito, Shintaro, 4,694,562, Cl. 437-57.000.
- Ito, Sho; Horikoshi, Hiroshi; and Kasahara, Kumio, to Mitsubishi Den Kabushiki Kaisha. Moving body measuring instrument. 4,652,12 3-24-87, Cl. 356-28.000.
- Ito, Shoichi: *See*—
  - Ito, Keiko; Ito, Michiyasu; Tsuji, Shoichi; Suzuki, Hisatosi; and It Shoichi, 4,705,813, Cl. 521-92.000.
- Ito, Shoji, to Aisin Seiki Kabushiki Kaisha. Transfer switch for differential type actuators. 4,665,947, 5-19-87, Cl. 137-625.210.
- Ito, Shoji, to Nittan Company, Limited. Light-transmission type smok detector having a spiral optical path. 4,700,079, 10-13-87, Cl. 250-574.000.
- Ito, Shoji: *See*—
  - Kawabata, Yasuhiro; Ito, Shoji; Kawai, Yukio; Sasano, Mitsun and Ohmura, Fusaji, 4,665,948, Cl. 137-625.480.
- Ito, Susumo: *See*—
  - Sawamura, Mitsuharu; and Ito, Susumo, 4,637,953, Cl. 428-333.00
- Ito, Susumu: *See*—
  - Nakashima, Seiichiro; Toyoda, Kenichi; Inagaki, Shigemi; and It Susumu, 4,702,665, Cl. 414-730.000.
- Ito, Syoichi; and Akahori, Ken-ichi, to Hitachi, Ltd. Video sig generating circuit. 4,642,622, 2-10-87, Cl. 340-724.000.
- Ito, Syoichi: *See*—
  - Matsumura, Shuji; Ito, Michiyasu; Tsuji, Syoichi; Suzuki, Hisato and Ito, Syoichi, 4,699,733, Cl. 282-521.000.
- Ito, Syoji: *See*—
  - Shiraishi, Masao; Nishiya, Yoshinori; and Ito, Syoji, 4,687,804, Cl. 524-505.000.
- Ito, Tadashi; Jinnai, Koichiro; Koike, Takahisa; Murai, Toshihar Fukazawa, Takao; and Ishima, Kazumi, to Ricoh Company, Ltd Multi-tone recording method for ink jet printer. 4,642,653, 2-10-87, Cl. 346-1.100.
- Ito, Tadashi: *See*—
  - Shinoda, Nobuhiko; Sakurada, Nobuaki; Kawamura, Masaharu Ito, Tadashi; Ito, Fumio; and Murakami, Hiroyashu, 4,664,49 Cl. 354-420.000.
- Ito, Taisuke: *See*—
  - Nakajima, Kiyoharu; Ito, Taisuke; and Nakamura, Yusui, 4,667,11 Cl. 250-561.000.
- Ito, Takaaki; Mori, Eiji; Uranishi, Koji; Miyazaki, Shinji; and Sugimo Junichi, to Toyota Jidosha Kabushiki Kaisha; and Horie Metal Co. Ltd. Fuel filler conduit. 4,715,509, 12-29-87, Cl. 220-86.00R.
- Ito, Takaaki: *See*—
  - Uranishi, Koji; Ito, Takaaki; and Tanahashi, Toshio, 4,651,889, Cl. 220-85.0VR.
  - Uranishi, Koji; Ito, Takaaki; and Tanahashi, Toshio, 4,657,156, Cl. 220-85.0VS.
  - Uranishi, Koji; Ito, Takaaki; and Tanahashi, Toshio, 4,659,346, Cl. 55-182.000.
  - Uranishi, Koji; Ito, Takaaki; and Tanahashi, Toshio, 4,701,198, Cl. 55-387.000.
- Ito, Takamasa, to Sony Corporation. Teaching machine. 4,673,357, 6-16-87, Cl. 434-311.000.
- Ito, Takao: *See*—
  - Takahashi, Satoshi; Tsutsumi, Akira; Suzuki, Junji; Kumakura, Hiroshi; Ito, Takao; Ohsawa, Kenji; Ikegami, Yuji; Haraki, Muneyuki; Yasuda, Nobuyuki; and Ohta, Masayuki, 4,677,252, Cl. 174-68.500.
  - Watanabe, Fumio; Komaki, Shojiro; Miyamoto, Masao; and Ito, Takao, 4,695,724, Cl. 250-292.000.
- Ito, Takashi; Matsuzawa, Shigemitsu; and Kato, Katsuaki, to Nippon Engelhard Ltd. Platinum-copper alloy electrocatalyst and acid-electrolyte fuel cell electrode using the same. 4,716,087, 12-29-87, Cl. 429-40.000.
- Ito, Takato; Shimada, Akihiro; and Uchiyama, Kimio, to Nippon Chemi-Con Corporation. Organic semiconductor electrolyte capacitor and process for producing the same. 4,656,560, 4-7-87, Cl. 361-433.000.
- Ito, Takayasu; Nishijima, Hideo; Fukushima, Isao; Fujimori, Yoshi and Kobori, Yasunori, to Hitachi, Ltd.; and Hitachi Video Engineering, Inc. Apparatus for driving brushless motor. 4,651,067, 3-17-87, Cl. 318-254.000.
- Ito, Takayasu: *See*—
  - Nishijima, Hideo; Ito, Takayasu; and Fukushima, Isao, 4,682,096, Cl. 318-808.000.
  - Nishijima, Hideo; Okamoto, Kaneyuki; Ito, Takayasu; and Toyoshima, Shuji, 4,707,749, Cl. 360-14.300.
- Ito, Takayuki: *See*—
  - Kishi, Hajimu; Sakakibara, Shinsuke; and Ito, Takayuki, 4,701,686, Cl. 318-632.000.

Ito, Takeo; Takeuchi, Hajime; Hashimoto, Minoru; and Maeda, Tatsumi, to Kabushiki Kaisha Toshiba. Magnetic recording medium. 4,714,654, 12-22-87, Cl. 428-328.000.

Ito, Takeo: *See—*

Kurachi, Hisao; Minaminaka, Kazuyoshi; Ito, Takeo; and Yamakawa, Kiyoshi, 4,701,579, Cl. 200-5.00A.

Ito, Takeshi, to Tokyo Shibaura Denki Kabushiki Kaisha. Device for detecting a space between adjacent blocks of data recorded in a recording medium. 4,680,652, 7-14-87, Cl. 360-72.100.

Ito, Takeshi: *See—*

Abe, Kazunobu; Aoki, Masashi; Rikimaru, Hiroaki; Ito, Takeshi; Hidaka, Kazuhisa; and Segawa, Kayoko, 4,643,984, Cl. 501-134.000.

Ito, Takeyasu; and Kuwajima, Teruaki, to Nippon Paint Co., Ltd. Anticorrosive metal surface treating composition. 4,705,821, 11-10-87, Cl. 524-407.000.

Ito, Takeyasu: *See—*

Urano, Satoshi; Aoki, Kei; Ito, Takeyasu; Suzuki, Yuji; and Mizuguchi, Ryuzo, 4,666,993, Cl. 525-328.200.

Ito, Tatsuya: *See—*

Hiraga, Yuji; and Ito, Tatsuya, 4,705,383, Cl. 355-3.0DD.

Ito, Tetsuo; and Arita, Setsuo, to Hitachi, Ltd. Multiplex transmission system. 4,644,346, 2-17-87, Cl. 340-825.030.

Ito, Tetsuo; Arita, Setsuo; and Kitaura, Wataru, to Hitachi, Ltd. Image transmission system. 4,673,974, 6-16-87, Cl. 358-108.000.

Ito, Tetsuo: *See—*

Kitaura, Wataru; and Ito, Tetsuo, 4,654,590, Cl. 324-208.000.

Watanabe, Ryuji; Minemura, Tetsuro; Ito, Tetsuo; Ando, Hisashi; Maeda, Yoshihito; Nagai, Masaichi; Shimizu, Seiki; Konno, Kiyoshi; and Kaneko, Toshiki, 4,651,172, Cl. 346-135.100.

Ito, Tetuzo: *See—*

Goto, Masao; Kimura, Haruo; Okada, Toshihiko; Yuasa, Katsunori; and Ito, Tetuzo, 4,697,708, Cl. 209-534.000.

Ito, Tokuhisa; Kitamura, Goro; Horiuchi, Hidenori; and Aoyama, Masaaki, to Asahi Kogaku Kogyo Kabushiki Kaisha. Comparison type dimension measuring method and apparatus using a laser beam in a microscope system. 4,650,335, 3-17-87, Cl. 356-398.000.

Ito, Tomoo: *See—*

Ejiri, Yuuki; Ito, Tomoo; Tsuruta, Hisato; and Kamifuri, Hiroshi, 4,639,624, Cl. 310-154.000.

Fujitsugu, Yutaka; Ito, Tomoo; and Uchida, Tadao, 4,669,504, Cl. 137-625.650.

Ito, Tomotaka; and Chonan, Katsuhiko, to Mitsubishi Denki Kabushiki Kaisha. Inverter control circuit. 4,654,773, 3-31-87, Cl. 363-41.000.

Ito, Tomotaka, to Mitsubishi Denki Kabushiki Kaisha. Inverter control circuit. 4,672,285, 6-9-87, Cl. 318-757.000.

Ito, Tomotaka, to Mitsubishi Denki Kabushiki Kaisha. Base drive circuit in a transistor inverter. 4,716,513, 12-29-87, Cl. 363-97.000.

Ito, Toshiaki: *See—*

Kokubo, Eiichi; Osako, Kyoichi; Hirata, Akira; Oshita, Mizuo; Ito, Toshiaki; Seki, Kazuyuki; Yoshikawa, Eiichi; and Miyazaki, Osamu, 4,699,272, Cl. 209-534.000.

Ito, Toshifumi, to Honda Giken Kogyo Kabushiki Kaisha. Internal combustion engine for motorcycle. 4,648,359, 3-10-87, Cl. 123-90.310.

Ito, Toshifumi, to Honda Giken Kogyo Kabushiki Kaisha. Connecting structure of flywheel to crankshaft. 4,668,116, 5-26-87, Cl. 403-258.000.

Ito, Toshihiko: *See—*

Yamamoto, Shinichi; Ito, Toshihiko; and Asano, Mitsuru, 4,640,454, Cl. 228-161.000.

Ito, Toshimitsu; and Okamoto, Akio, to Toyota Jidosha Kabushiki Kaisha. Method and system incorporating zero-correction for fuel supply control for internal combustion engine. 4,677,954, 7-7-87, Cl. 123-478.000.

Ito, Toshimitsu; and Murata, Chigaku, to Toyota Jidosha Kabushiki Kaisha. Method and device for control of internal combustion engine at end of fuel cut off. 4,696,278, 9-29-87, Cl. 123-493.000.

Ito, Toshimitsu: *See—*

Kobayashi, Nobuyuki; and Ito, Toshimitsu, 4,644,921, Cl. 123-489.000.

Kobayashi, Nobuyuki; Ito, Toshimitsu; Akatsuka, Takao; and Ninomiya, Masakazu, 4,651,700, Cl. 123-489.000.

Kobayashi, Nobuyuki; Hattori, Takashi; Yagi, Katsunori; and Ito, Toshimitsu, 4,653,451, Cl. 123-489.000.

Kobayashi, Nobuyuki; Hattori, Takashi; Yagi, Katsunori; and Ito, Toshimitsu, 4,713,766, Cl. 364-431.050.

Ito, Toshinobu: *See—*

Kohno, Kouji; Takubo, Hiroichi; and Ito, Toshinobu, 4,690,111, Cl. 123-192.00B.

Kohno, Kouji; Takubo, Hiroichi; and Ito, Toshinobu, 4,696,267, Cl. 123-192.00B.

Ito, Toshio; Fujio, Shunichi; and Taya, Takeyoshi, to Toyota Jidosha Kabushiki Kaisha. Manufacturing method for an integral type crankshaft bearing cap. 4,705,092, 11-10-87, Cl. 164-34.000.

Ito, Toshiyasu; Mori, Takaaki; Minoura, Jun; and Shimada, Junichi, to Toyoda Gosei Co., Ltd. Process for manufacturing solid electrochromic element. 4,664,934, 5-12-87, Cl. 427-38.000.

Ito, Toshohiko: *See—*

Sannohe, Kunio; Otsuka, Kengo; Ito, Toshohiko; Maruyama, Masahiko; Kitano, Takafumi; and Hirayama, Makoto, 4,639,521, Cl. 546-141.000.

Ito, Tosikazu; Komathuzaki, Kiyomi; Chonan, Kenichi; and Horibe, Kiyoshi, to Hitachi, Ltd. Vacuum actuator. 4,669,361, 6-2-87, Cl. 91-459.000.

Ito, Tsuneo: *See—*

Yokoi, Shinichi; and Ito, Tsuneo, 4,640,809, Cl. 264-61.000.

Ito, Tsutomu: *See—*

Niizuma, Hiroshi; Miki, Toshiro; Kojima, Shiro; Azuma, Kishiro; Kato, Hiroyuki; Murakami, Yuichi; and Ito, Tsutomu, 4,677,225, Cl. 562-599.000.

Ito, Yasuhiko; and Shinonaga, Hideyuki, to Kokusai Denshin Denwa Co., Ltd. Communications satellite repeater. 4,706,239, 11-10-87, Cl. 370-57.000.

Ito, Yasuro; Higuchi, Yoshiro; Shiki, Takeshi; Tsuji, Yukikazu; Tsuji, Masanori; and Hayakawa, Mitsutaka, to Ito, Yasuro; and Taisei Corporation. Method of preparing mortar or concrete. 4,686,852, 8-18-87, Cl. 73-61.00R.

Ito, Yasuro; Higuchi, Yoshiro; Shiki, Takeshi; Tsuji, Yukikazu; Tsuji, Masanori; and Hayakawa, Mitsutaka, to Yasuro Ito and Taisei Corporation. Method of preparing mortar or concrete. 4,715,719, 12-29-87, Cl. 366-2.000.

Ito, Yasuyuki, to Kabushiki Kaisha Toshiba. Gyrotron device. 4,636,688, 1-13-87, Cl. 315-4.000.

Ito, Yasuyuki; and Sugawara, Toru, to Kabushiki Kaisha Toshiba. Ion source apparatus. 4,641,031, 2-3-87, Cl. 250-423.00R.

Ito, Yo: *See—*

Inokuti, Yukio; Ikeda, Shigeko; Funahashi, Toshihiko; and Ito, Yo, 4,690,855, Cl. 428-209.000.

Inokuti, Yukio; and Ito, Yo, 4,698,272, Cl. 428-627.000.

Ito, Yoh: *See—*

Inokuchi, Yukio; Ikeda, Shigeko, and Ito, Yoh, 4,702,780, Cl. 148-111.000.

Inokuti, Yukio; Ito, Yoh; and Funahashi, Toshihiko, 4,713,123, Cl. 148-113.000.

Ito, Yoichiro, to United States of America, Health and Human Services. Cross-axis synchronous flow-through coil planet centrifuge free of rotary seals: apparatus and method for performing countercurrent chromatography. 4,714,554, 12-22-87, Cl. 210-635.000.

Ito, Yoji: *See—*

Hayashi, Yoshimasa; Minezaki, Yutaka; Ito, Yoji; Inoue, Naoyuki; and Hirano, Yoshinori, 4,700,664, Cl. 123-41.270.

Hirano, Yoshinori; Kubozuka, Takao; and Ito, Yoji, 4,669,426, Cl. 123-41.150.

Takeda, Tomoyuki; and Ito, Yoji, 4,673,902, Cl. 333-202.000.

Ito, Yoshiaki: *See—*

Kiuchi, Masao; Ito, Yoshiaki; Ishibashi, Nobuyuki; and Yamada, Kazuo, 4,701,368, Cl. 428-233.000.

Ito, Yoshihiro; and Ochiai, Tooru, to Kabushiki Kaisha Toshiba. Method for manufacturing a molded transformer. 4,649,640, 3-17-87, Cl. 29-605.000.

Ito, Yoshikuni; Kanamoto, Jinshu; Murayama, Seiji; and Suzuki, Shinji, to Kato Kagaku Co., Ltd. Continuous crystallization of fructose anhydride. 4,666,527, 5-19-87, Cl. 127-60.000.

Ito, Yoshinobu: *See—*

Ota, Toyokazu; Nakamura, Yutaka; Ikeda, Yutaka; Kataoka, Shunzi; and Ito, Yoshinobu, 4,639,291, Cl. 162-207.000.

Ito, Yoshinori, to NEC Corporation. Self-adaptive echo canceller capable of keeping a degree of cancellation substantially invariable even at a low incoming level. 4,648,111, 3-3-87, Cl. 379-411.000.

Ito, Yoshinori: *See—*

Suzuki, Kenji; and Ito, Yoshinori, 4,660,714, Cl. 206-0.600.

Ito, Yoshio, to Canon Kabushiki Kaisha. Printing apparatus. 4,639,749, 1-27-87, Cl. 346-153.100.

Ito, Yoshio; and Nishikawa, Masaaki, to Canon Kabushiki Kaisha. Original reading apparatus. 4,677,495, 6-30-87, Cl. 358-285.000.

Ito, Yoshio: *See—*

Sakai, Tsuneo; Tanihira, Tadashi; and Ito, Yoshio, 4,654,884, Cl. 455-183.000.

Ito, Yoshiro: *See—*

Furuyama, Kuninori; and Ito, Yoshiro, 4,670,226, Cl. 422-216.000.

Ito, Yoshito: *See—*

Nakamura, Kenzi; Honda, Akio; Inukai, Kazuo; and Ito, Yoshito, 4,636,782, Cl. 340-705.000.

Ito, Yuji, to Canon Kabushiki Kaisha. Optical device having a focusing function. 4,666,268, 5-19-87, Cl. 351-206.000.

Ito, Yuji, to Canon Kabushiki Kaisha. Particle analyzing apparatus. 4,690,561, 9-1-87, Cl. 356-339.000.

Ito, Yuji, to Canon Kabushiki Kaisha. Particle analyzing apparatus with index projecting optical system for detecting a focusing state of the measuring system. 4,715,708, 12-29-87, Cl. 356-72.000.

Ito, Yuji: *See—*

Ohe, Shinichi; and Ito, Yuji, 4,643,566, Cl. 356-72.000.

Ito, Yujiro; Kamatsu, Yasutoshi; and Otobe, Takashi, to Sony Corporation. Dielectric rotary coupler. 4,692,721, 9-8-87, Cl. 333-109.000.

Ito, Yukio: *See—*

Hiratani, Masahiko; Miyauchi, Katsuki; Ito, Yukio; Kanehori, Keiichi; Kirino, Fumiyoshi; and Kudo, Tetsuichi, 4,645,726, Cl. 429-191.000.

Takai, Kazuki; Ito, Yukio; Kinoshita, Shigeo; Kikuchi, Junichi; and Fukazawa, Toshihiko, 4,688,122, Cl. 360-96.500.

Yamazaki, Jun; and Ito, Yukio, 4,696,879, Cl. 430-24.000.

Ito, Yuuji; Shibata, Tadahiko; Sakai, Masahiko; Ota, Yukio; Kondo, Naohiko; and Matuyama, Harukazu, to Nippondenso Co., Ltd. Method for making axial-flow filters and apparatus therefor. 4,659,323, 4-21-87, Cl. 493-457.000.

Itoh, Akio; Sumi, Kazunori; Saitoh, Sigeo; and Sobue, Hideo, to NGK Spark Plug Co., Ltd. Piezoelectric type liquid level sensor and fabricating method thereof. 4,703,652, 11-3-87, Cl. 73-290.00V.

Itoh, Akio: *See—*

Kamigaito, Osami; Doi, Haruo; Noda, Shoji; Hioki, Tatsumi; Itoh, Akio; and Kakeno, Mitsutaka, 4,678,678, Cl. 427-38.000.

Itoh, Akira: *See—*
- Emoto, Kazuhiro; Itoh, Akira; and Haino, Kozo, 4,687,721, Cl. 430-58.000.
- Haino, Kozo; Emoto, Kazuhiro; and Itoh, Akira, 4,702,983, Cl. 430-75.000.
- Nakao, Shinroku; Itoh, Masao; Itoh, Akira; and Takano, Hiroshi, 4,678,182, Cl. 272-73.000.

Itoh, Akira, legal representative: *See—*
- Itoh, Kazu, deceased; and Itoh, Akira, legal representative, 4,633,868, Cl. 128-204.260.

Itoh, Atsuo: *See—*
- Hayashi, Yutaka; Itoh, Atsuo; and Iida, Hideyo, 4,649,857, Cl. 118-326.000.

Itoh, Atsushi: *See—*
- Mori, Shunji; Tajima, Shinobu; and Itoh, Atsushi, 4,705,451, Cl. 414-70.000.
- Murakami, Tokumichi; Asai, Kohtaro; and Itoh, Atsushi, 4,670,851, Cl. 364-518.000.
- Murakami, Tokumichi; Itoh, Atsushi; Asai, Kohtaro; Kamizawa, Koh; and Nishida, Masami, 4,710,812, Cl. 358-136.000.

Itoh, Eiji: *See—*
- Okude, Yoshitaka; and Itoh, Eiji, 4,659,781, Cl. 525-279.000.
- Tanino, Katsumi; Kiuchi, Norihiro; Tominaga, Chikara; Itoh, Eiji; Ogino, Kiyoshi; Yahagi, Masataka; and Sakamoto, Masaru, 4,656,455, Cl. 338-35.000.

Itoh, Fujio: *See—*
- Sakai, Junichi; Itoh, Fujio; and Watanabe, Seiichi, 4,656,533, Ci. 360-65.000.

Itoh, Fumihiko; Usagawa, Tatumi; Sakai, Ryo; and Yamamoto, Yasakao, to Sanyo Electric Co., Ltd. Device for mounting cooking apparatus. 4,635,615, 1-13-87, Cl. 126-273.00A.

Itoh, Fumihiko; Usagawa, Tatumi; Sakai, Ryo; and Yamamoto, Yasakao, to Sanyo Electric Co. Ltd. Device for mounting cooking apparatus. 4,666,113, 5-19-87, Cl. 248-201.000.

Itoh, Hajime; and Mitani, Kazutami, to Mitsubishi Rayon Co., Ltd. Hydrophilized porous polyolefin membrane and production process thereof. 4,678,813, 7-7-87, Cl. 521-61.000.

Itoh, Hajime; and Mitani, Kazutami, to Mitsubishi Rayon Co., Ltd. Hydrophilized porous membrane and production process thereof. 4,695,592, 9-22-87, Cl. 521-54.000.

Itoh, Hajime: *See—*
- Takemura, Tohru; Itoh, Hajime; Kamo, Jun; and Yoshida, Haruhiko, 4,713,292, Cl. 428-373.000.

Itoh, Haruo, to Fuji Photo Film Co., Ltd. Tracking system for rotary magnetic recording medium using weighted sampled track values. 4,710,832, 12-1-87, Cl. 360-10.200.

Itoh, Haruo: *See—*
- Akimoto, Takashi; Kai, Akio; Kobayashi, Masao; and Itoh, Haruo, 4,658,101, Cl. 200-16.00R.
- Muramatsu, Shinichi; Shimada, Toshikazu; Matsubara, Sunao; Itoh, Haruo; and Nakamura, Nobuo, 4,642,412, Cl. 136-244.000.

Itoh, Hayami; and Nagai, Chiaki, to Kawasaki Jukogyo Kabushiki Kaisha. Method of recovering fuel from coal ash. 4,657,561, 4-14-87, Cl. 44-51.000.

Itoh, Hayami: *See—*
- Nakaoji, Kazuhiko; Kamao, Mitsugu; Itoh, Hayami; Tatsumi, Shuhei; and Takao, Shoichi, 4,706,891, Cl. 241-16.000.

Itoh, Hideki: *See—*
- Kaieda, Osamu; Hirota, Koichi; Itoh, Hideki; Awashima, Masaru; and Nakamura, Toshiaki, 4,689,179, Cl. 260-384.000.

Itoh, Hiroko: *See—*
- Endo, Shigeharu; Endo, Kazuma; Endo, Kazuya; and Itoh, Hiroko, 4,651,351, Cl. 2-159.000.

Itoh, Hiroshi; and Takada, Mitsuru, to Toyota Jidosha Kabushiki Kaisha. Method for controlling a continuously variable transmission. 4,637,279, 1-20-87, Cl. 74-866.000.

Itoh, Hiroshi; Nitta, Atsuhiko; Tanaka, Tomio; and Kamio, Hideo, to Mitsui Toatsu Chemicals, Inc. Unsaturated cyclic amido-substituted ether compounds and preparation process thereof. 4,649,219, 3-10-87, Cl. 564-207.000.

Itoh, Hiroshi; Akashi, Teruo; and Takada, Mitsuru, to Toyota Jidosha Kabushiki Kaisha. Spool-type control valve assembly with reduced spool stroke for hydraulic belt-and-pulley type continuously variable transmission. 4,653,353, 3-31-87, Cl. 74-868.000.

Itoh, Hiroshi; Nitta, Atsuhiko; and Kamio, Hideo, to Mitsui Toatsu Chemicals, Inc. Hydroxyalkanesulfonic acids and their derivatives and process for preparing same. 4,654,177, 3-31-87, Cl. 260-512.00R.

Itoh, Hiroshi; Nitta, Atsuhiko; and Kamio, Hideo, to Mitsui Toatsu Chemicals, Incorporated. Process for preparing amidoalkanesulfonic acids polymers. 4,659,775, 4-21-87, Cl. 524-817.000.

Itoh, Hiroshi; and Takada, Mitsuru, to Toyota Jidosha Kabushiki Kaisha. Method for controlling continuously variable transmission. 4,663,990, 5-12-87, Cl. 74-866.000.

Itoh, Hiroshi; Suzuki, Yasutoshi; Ohmi, Shinya; Fukada, Tsuyoshi; and Hara, Kunihiko, to Nippondenso Co., Ltd. Control apparatus with delay circuit for antiglare mirror. 4,669,825, 6-2-87, Cl. 350-332.000.

Itoh, Hiroshi; Ohmi, Shinya; Suzuki, Yasutoshi; Fukada, Tsuyoshi; and Hara, Kunihiko, to Nippondenso Co., Ltd. Apparatus for detecting the direction of light for dazzle-free mirrors. 4,669,826, 6-2-87, Cl. 350-331.00R.

Itoh, Hiroshi; and Takada, Mitsuru, to Toyota Jidosha Kabushiki Kaisha. Method and apparatus for controlling power transmission system in an automotive vehicle. 4,672,863, 6-16-87, Cl. 74-866.000.

Itoh, Hiroshi; Ohmi, Shinya; Suzuki, Yasutoshi; Fukada, Tsuyoshi; and Hara, Kunihiko, to Nippondenso Co., Ltd. Drive apparatus for a liquid crystal dazzle-free mirror arrangement. 4,676,601, 6-30-87, C 350-331.00R.

Itoh, Hiroshi; Nakagawa, Toshimi; Nitta, Atsuhiko; Tanaka, Tomio; Kamio, Hideo; Enoshita, Ryosuke; Uejima, Tamotu; Ouchi, Takahiro; Abe, Kazuki; and Kobayashi, Sadao, to Mitsui Toatsu Chemicals, Incorporated. Agent for absorbing and releasing water vapor. 4,683,258, 7-28-87, Cl. 524-434.000.

Itoh, Hiroshi, to Toyota Jidosha Kabushiki Kaisha. Hydraulic control apparatus for hydraulically-operated power transmitting system having continuously variable transmission. 4,685,358, 8-11-87, C 74-868.000.

Itoh, Hiroshi; Suzuki, Yasutoshi; Fukada, Tsuyoshi; Ohmi, Shinya; and Hara, Kunihiko, to Nippondenso Co., Ltd. Liquid crystal elemen driving apparatus. 4,687,956, 8-18-87, Cl. 307-310.000.

Itoh, Hiroshi; Takada, Mitsuru; Sasaoka, Hiroshi; Inagaki, Takafum and Masutomi, Susumu, to Toyota Jidosha Kabushiki Kaisha. Apparatus for controlling continuously variable transmission used in vehicle. 4,689,745, 8-25-87, Cl. 364-424.100.

Itoh, Hiroshi; Nitta, Atsuhiko; and Kamio, Hideo, to Mitsui Toatsu Chemicals, Incorporated. Process for preparing amidoalkanesulfonic acids. 4,701,283, 10-20-87, Cl. 260-507.00R.

Itoh, Hiroshi: *See—*
- Fukada, Tsuyoshi; Suzuki, Yasutoshi; Itoh, Hiroshi; Ohmi, Shinya and Hara, Kunihiko, 4,669,827, Cl. 350-338.000.
- Fukada, Tsuyoshi; Suzuki, Yasutoshi; Itoh, Hiroshi; Ohmi, Shinya and Hara, Kunihiko, 4,671,615, Cl. 350-331.00R
- Inagaki, Takafumi; Sasaoka, Hiroshi; Masutomi, Susumu; Itoh Hiroshi; and Takada, Mitsuru, 4,698,764, Cl. 364-424.100.
- Muramatsu, Hiromochi; Suzuki, Yasutoshi; Itoh, Hiroshi; Ohmi Shinya; and Hara, Kunihiko, 4,671,617, Cl. 350-335.000.
- Okada, Mitsuhiko; Itoh, Hiroshi; Kato, Nobuyuki; and Takada Mitsuru, 4,669,336, Cl. 74-867.000.
- Suzuki, Yasutoshi; Ohmi, Shinya; Fukada, Tsuyoshi; Itoh, Hirosh and Hara, Kunihiko, 4,655,549, Cl. 350-331.00R.
- Suzuki, Yasutoshi; Itoh, Hiroshi; Ohmi, Shinya; and Hara Kunihiko, 4,697,883, Cl. 350-331.00R.
- Takada, Mitsuru; Itoh, Hiroshi; Hiramatsu, Shigeki; and Tamura Tadashi, 4,682,518, Cl. 74-867.000.

Itoh, Hirotaka: *See—*
- Shirai, Hideaki; Chiba, Kimio; Okawa, Koji; Ishibashi, Hirosh Ishii, Akihiro; Itoh, Hirotaka; Kuzushita, Hirokazu; Yoshioka Michihiko; and Hirose, Michio, 4,695,515, Cl. 428-458.000.

Itoh, Hiroyuki; Sakata, Ko; and Imai, Hirosuke, to Nippon Oil Company, Ltd. Selective gas separation membrane. 4,636,229, 1-13-87, C 55-158.000.

Itoh, Hisatsugu; and Uota, Kousaku, to Mitsubishi Denki Kabushiki Kaisha. Automotive navigation system. 4,677,563, 6-30-87, C 364-449.000.

Itoh, Hisatsugu: *See—*
- Uota, Kousaku; and Itoh, Hisatsugu, 4,677,562, Cl. 364-449.000.

Itoh, Ikuo: *See—*
- Tanaka, Toyoki; and Itoh, Ikuo, 4,634,258, Cl. 355-4.000.

Itoh, Isamu: *See—*
- Ichijima, Seiji; Ono, Mitsunori; Itoh, Isamu; Mihayashi, Ke Tamoto, Koji; and Nakamura, Yoshisada, 4,711,837, C 430-548.000.

Itoh, Isao: *See—*
- Yazaki, Takao; Hattori, Satoru; Hattori, Kazuhide; Matsun Takumi; Shibuya, Nobuhiro; Hayama, Kazuhide; and Itoh, Isa 4,659,618, Cl. 428-317.700.

Itoh, Katsuhisa; Watanabe, Yoshiaki; Nakamura, Eiji; and Toyoshima Masayasu, to Sumitomo Light Metal Industries, Ltd. Process producing neodymium-iron alloy. 4,684,448, 8-4-87, Cl. 204-71.000.

Itoh, Katsuoki; and Komaroff, Iwan, to Robert Bosch GmbH. Fu injection nozzle. 4,662,338, 5-5-87, Cl. 123-467.000.

Itoh, Katsuro: *See—*
- Yoshino, Teruo; and Itoh, Katsuro, 4,680,691, Cl. 363-51.000.

Itoh, Katsutoshi, to Tsubakimoto Precision Products Co., Ltd. Tubular bearing for linear motion. 4,662,763, 5-5-87, Cl. 384-45.000.

Itoh, Kazu, deceased; and Itoh, Akira, legal representative, to Itoh Sei Kabushiki Kaisha. Closed circuit type respirator. 4,633,868, 1-6-8 Cl. 128-204.260.

Itoh, Kazuhiro: *See—*
- Tani, Kanari, 4,650,079, Cl. 206-616.000.

Itoh, Kenichi; Noguki, Genji; Tanaka, Motoaki; and Ohba, Hitoshi, to Shin-Etsu Chemical Co., Ltd. Method for the polymerization of vinyl chloride monomer in an aqueous medium. 4,694,053, 9-15-87, C 526-74.000.

Itoh, Kenichi; Noguki, Genji; and Nakahara, Masanobu, to Shin-Etsu Chemical Co., Ltd. Method for the suspension polymerization vinyl chloride monomer. 4,694,055, 9-15-87, Cl. 526-201.000.

Itoh, Kenji: *See—*
- Yamazaki, Shunpei; Itoh, Kenji; and Nagayama, Susumu 4,680,855, Cl. 29-583.000.
- Yamazaki, Shunpei; Itoh, Kenji; and Nagayama, Susumu 4,713,518, Cl. 219-121.0LM.
- Yasuda, Akira; Ikehira, Junko; Itoh, Kenji; Takasaki, Junsuke; and Tsunoyama, Kozou, 4,670,065, Cl. 148-2.000.

Itoh, Kenkichi; Matsui, Takao; and Murakami, Toshio, to Osaka Filter Co., Ltd.; and Needs Kiko Co., Ltd. Lift apparatus for lifting cigarette filter plugs. 4,658,950, 4-21-87, Cl. 198-577.000.

Itoh, Kensuke: *See—*
- Hori, Tomoshige; and Itoh, Kensuke, 4,663,169, Cl. 426-38.000.

Itoh, Kimio, to Kabushiki Kaisha Ito Seisakusho. Tool mounting and demounting device for changing tools of a drilling machine 4,656,727, 4-14-87, Cl. 29-568.000.

toh, Kiyoo; and Hori, Ryoichi, to Hitachi, Ltd. Semiconductor memory. 4,675,845, 6-23-87, Cl. 365-51.000.
toh, Kiyoo: *See—*
Aoki, Masakazu; Horiguchi, Masashi; Nakagome, Yoshinobu; Ikenaga, Shinichi; Shimohigashi, Katsuhiro; Masuhara, Toshiaki; Itoh, Kiyoo; Nakamura, Hideo; and Minato, Osamu, 4,701,884, Cl. 365-189.000.
Hori, Ryoichi; and Itoh, Kiyoo, 4,691,304, Cl. 365-226.000.
Hori, Ryoichi; Itoh, Kiyoo; and Etoh, Jun, 4,716,313, Cl. 307-475.000.
oh, Kiyoshi: *See—*
Niiho, Masaaki; Itoh, Kiyoshi; Suzuki, Shinichi; Itagaki, Takuo; and Tsuda, Koji, 4,636,068, Cl. 356-5.000.
oh, Koichi; and Nishimura, Yoshiaki, to Shin-Etsu Chemical Co., Ltd. Method for controlling sanitary and agricultural pests. 4,654,328, 3-31-87, Cl. 514-63.000.
oh, Koichi; and Nishimura, Yoshiaki, to Shin-Etsu Chemical Co., Ltd. Method for controlling sanitary and agricultural pests. 4,656,162, 4-7-87, Cl. 514-63.000.
oh, Kunio; Kozakai, Shohei; Hida, Yoshinori; Okinoshima, Hiroshige; Okada, Fumio; Oba, Toshio; Shimizu, Hisashi; Hinoto, Yuji; and Yoshioka, Hiroshi, to Shin-Etsu Chemical Co., Ltd. Method for forming a surface film of cured organosilicon polymer on a substrate surface. 4,678,688, 7-7-87, Cl. 427-387.000.
oh, Kunio; Imai, Kiyoshi; Yoshida, Takeo; and Fukushima, Motoo, to Shin-Etsu Chemical Co., Ltd. Flame-retardant silicone rubber composition. 4,678,827, 7-7-87, Cl. 524-188.000.
oh, Kunio; Shiobara, Toshio; Futatsumori, Koji; Tomiyoshi, Kazutoshi; and Shimizu, Hisashi, to Shin-Etsu Chemical Co., Ltd. Epoxy resin composition for encapsulation of semiconductor devices. 4,701,482, 10-20-87, Cl. 523-435.000.
oh, Kunio; Okada, Fumio; Yamamoto, Yasushi; and Aoki, Hisashi, to Shin-Etsu Chemical Co., Ltd. Radiation-curable organopolysiloxane compositions. 4,707,503, 11-17-87, Cl. 522-99.000.
h, Kunio; Fukuda, Takeshi; and Yoshioka, Hiroshi, to Shin-Etsu Chemical Co., Ltd. Rubber composition. 4,714,733, 12-22-87, Cl. 524-493.000.
h, Kunio: *See—*
Hamada, Ken; Wada, Masaru; and Itoh, Kunio, 4,716,571, Cl. 372-48.000.
Shimizu, Hirokazu; Itoh, Kunio; Sugino, Takashi; Wada, Masaru; Teramoto, Iwao; and Fujimoto, Kazuo, 4,651,322, Cl. 372-45.000.
Wada, Masaru; Shimizu, Hirokazu; Shibutani, Takao; Itoh, Kunio; Hamada, Ken; and Teramoto, Iwao, 4,675,074, Cl. 156-647.000.
h, Masaaki, to Minolta Camera Kabushiki Kaisha. Mark detection pparatus for a micro-roll film. 4,687,321, 8-18-87, Cl. 355-41.000.
n, Masaharu; Yokemura, Taketoshi; and Yanagisawa, Hiroshi, to nternational Business Machines Corporation. Image processing ystem and method. 4,682,869, 7-28-87, Cl. 358-260.000.
, Masanori; and Hayashi, Fumihiko, to Daicel Chemical Industries, td. Laser recording film. 4,702,958, 10-27-87, Cl. 428-323.000.
, Masao: *See—*
Akiyama, Shigeru; Ueno, Hidetoshi; Imagawa, Koji; Kitahara, Akira; Nagata, Sumio; Morimoto, Kazuo; Nishikawa, Tooru; and Itoh, Masao, 4,713,277, Cl. 428-131.000.
Nakao, Shinroku; Itoh, Masao; Itoh, Akira; and Takano, Hiroshi, 4,678,182, Cl. 272-73.000.
, Masataka: *See—*
Nishigaki, Satoshi; Itoh, Masataka; and Katoh, Shohichi, 4,644,406, Cl. 358-213.000.
Okibayashi, Katsushi; Itoh, Masataka; and Katoh, Shohichi, 4,641,359, Cl. 382-68.000.
, Masayoshi: *See—*
Inoue, Kaoru; Miyagawa, Hiroharu; Itoh, Masayoshi; Abe, Tomohiro; Koizumi, Kyogo; and Yanagawa, Noriyuki, 4,667,048, Cl. 556-469.000.
, Michio; Ishikawa, Isao; Yoshida, Motoko; and Okano, Kazunori, Hitachi, Ltd. Apparatus for two-dimensional electrophoresis. 666,581, 5-19-87, Cl. 204-299.00R.
, Minoru, to Matsushita Electronics Corporation. Bucket brigade arge transfer device with auxiliary gate electrode. 4,709,380, -24-87, Cl. 377-58.000.
, Nobuaki; and Sekine, Takashi, to Yokohama Aeroquip Company. alve unit for air-conditioner piping. 4,644,973, 2-24-87, Cl. 7-883.000.
, Nobuaki: *See—*
Asakura, Toshiyuki; Kobayashi, Hiroaki; and Itoh, Nobuaki, 4,645,702, Cl. 428-141.000.
, Nobuya; and Matsunaga, Kuniyoshi, to Amano Pharmaceutical ., Ltd. Method and composition for determination of glycerol. 636,465, 1-13-87, Cl. 435-15.000.
Satoshi: *See—*
Tanaka, Koichi; and Itoh, Satoshi, 4,715,050, Cl. 375-111.000.
Seiga; Nishi, Tatsunari; Mizukami, Tamio; Matsumoto, Tadashi; a, Tetsuo; Taniguchi, Tadatsugu; and Sugano, Haruo, to Kyowa akko Kogyo Co., Ltd.; and Juridical Foundation, Japanese Founda- n for Cancer Research. Recombinant plasmid containing human erferon-beta gene. 4,686,191, 8-11-87, Cl. 435-320.000.
Seiga: *See—*
Sekine, Susumu; Mizukami, Tamio; Sato, Moriyuki; Itoh, Seiga; and Saito, Akiko, 4,689,402, Cl. 530-399.000.
Seiki Kabushiki Kaisha: *See—*
toh, Kazu, deceased; and Itoh, Akira, legal representative, 4,633,868, Cl. 128-204.260.

Itoh, Senji: *See—*
Ikushima, Fumio; Itoh, Senji; and Kogashiwa, Kiyonori, 4,692,132, Cl. 493-103.000.
Itoh, Shigeo: *See—*
Eto, Goro; Itoh, Shigeo; Yokoyama, Mikio; and Tonegawa, Takeshi, 4,666,548, Cl. 156-286.000.
Itoh, Shigeru: *See—*
Ueno, Ryuzo; Itoh, Shigeru; Fujimoto, Shine; Komatsu, Yumiko; and Tsuchiya, Hiroaki, 4,655,844, Cl. 106-309.000.
Uzaki, Nagato; Itoh, Shigeru; Kanayama, Ryoji; Harada, Hisashi; and Kawamura, Yasutaro, 4,633,928, Cl. 164-19.000.
Itoh, Shigeyuki: *See—*
Kaniwa, Koji; Watatani, Yoshizumi; and Itoh, Shigeyuki, 4,677,645, Cl. 375-8.000.
Itoh, Shimpei; and Sasakura, Tadao, to Nitto Boseki Co., Ltd. Two stage flameproofing of cellulosic fabric. 4,673,598, 6-16-87, Cl. 427-412.000.
Itoh, Shin-Ichi, to NEC Corporation. Electronic scanning antenna. 4,667,201, 5-19-87, Cl. 342-371.000.
Itoh, Shin-ichi: *See—*
Kawami, Shigeru; Tabu, Takashi; Ayano, Mitsutoshi; Shibuya, Kiyoshi; and Itoh, Shin-ichi, 4,677,669, Cl. 379-413.000.
Itoh, Shinichi: *See—*
Okamura, Hisanori; Miyazaki, Kunio; Akiyama, Hirosi; Itoh, Shinichi; Yasuda, Tomio; Nakamura, Kousuke; Okoshi, Yukio; Kamoshita, Mutuo; and Chiba, Akio, 4,690,793, Cl. 376-136.000.
Itoh, Shinji: *See—*
Iwasa, Koji; Kamamori, Hitoshi; Suginoya, Mitsuru; Sano, Yutaka; Terada, Yumiko; Kato, Naoki; Suzuki, Tameyuki; Yasukawa, Jun-ichi; Nomura, Toyokazu; Tohda, Kazuo; and Itoh, Shinji, 4,670,188, Cl. 252-513.000.
Itoh, Shyuji: *See—*
Ikeda, Masaaki; Takahara, Wataru; Iteguchi, Junichi; Satoh, Hiroyuki; and Itoh, Shyuji, 4,642,732, Cl. 361-321.000.
Itoh, Susumu, to Canon Kabushiki Kaisha. Ink jet recording head. 4,635,077, 1-6-87, Cl. 346-140.00R.
Itoh, Tadanao: *See—*
Suzuki, Kengi; Itoh, Tadanao; Mitsuhashi, Hiroshi; Ozawa, Yuichi; Hasegawa, Sadao; and Yamauchi, Takeshi, 4,653,571, Cl. 164-490.000.
Suzuki, Kengi; Itoh, Tadanao; Mitsuhashi, Hiroshi; Ozawa, Yuichi; Hasegawa, Sadao; and Yamauchi, Takeshi, 4,688,624, Cl. 164-440.000.
Itoh, Takaaki: *See—*
Uranishi, Kouji; and Itoh, Takaaki, 4,690,293, Cl. 220-86.00R.
Itoh, Takashi: *See—*
Haneda, Satoshi; Itoh, Takashi; Nakamura, Ken; and Tomono, Makoto, 4,675,267, Cl. 430-102.000.
Itoh, Takayuki, to Asahi Kogaku Kogyo Kabushiki Kaisha. Telephoto macro lens system. 4,666,260, 5-19-87, Cl. 350-454.000.
Itoh, Takayuki, to Asahi Kogaku Kogyo Kabushiki Kaisha. Variable magnification copying lens system. 4,707,082, 11-17-87, Cl. 350-425.000.
Itoh, Takeo: *See—*
Hashimoto, Minoru; Takeuchi, Hajime; and Itoh, Takeo, 4,695,513, Cl. 428-425.900.
Itoh, Takeshi: *See—*
Hongu, Tatsuya; Suzuki, Toshio; Ogawa, Yoshihiko; and Itoh, Takeshi, 4,689,357, Cl. 521-176.000.
Itoh, Takuyuki: *See—*
Hirano, Takahisa; Fukami, Shoji; Maruiwa, Yasuharu; Itoh, Takuyuki; Sugimoto, Tamio; Ono, Tetsuo; and Mukai, Masatoshi, 4,666,380, Cl. 418-55.000.
Hirano, Takahisa; Fukami, Shoji; Maruiwa, Yasuharu; Itoh, Takuyuki; Sugimoto, Tamio; Ono, Tetsuo; and Mukai, Masatoshi, 4,696,084, Cl. 29-156.40R.
Itoh, Tomonori: *See—*
Ohtsuji, Masaru; Itoh, Tomonori; Honda, Takashi; Ando, Shinobu; and Matsui, Kazumi, 4,657,475, Cl. 414-786.000.
Itoh, Toshifumi, to Honda Giken Kogyo Kabushiki Kaisha. Air intake device for a V-type engine. 4,671,216, 6-9-87, Cl. 123-52.0MV.
Itoh, Toshio: *See—*
Sawa, Yuhji; and Itoh, Toshio, 4,664,161, Cl. 141-114.000.
Itoh, Toyotsugu; and Muramatsu, Toshio, to Konishiroku Photo Industry Co., Ltd. Optical beam scanning apparatus including a cylindrical lens having its opposite ends closer to the scanned plane than its medial portion. 4,639,072, 1-27-87, Cl. 350-6.800.
Itoh, Tsuneo; and Yokoi, Shinichi, to NGK Spark Plug Co., Ltd. Self-control type glow plug. 4,636,614, 1-13-87, Cl. 219-270.000.
Itoh, Tsuneo: *See—*
Yokoi, Shinichi; Itoh, Tsuneo; Yasuhara, Seishi; and Kondo, Hiroshi, 4,661,686, Cl. 219-270.000.
Itoh, Tsutomu; Tateno, Haruo; Nagasaka, Hideo; Yamamoto, Masahiro; Mitsuyoshi, Yusuke; Matsuno, Susumu; Saitoh, Hiroshi; and Kitoh, Masayuki, to Kenkyusho, Rikagaku, and Onoda Cement Company, Ltd. Multiple torch type plasma spray coating method and apparatus therefor. 4,670,290, 6-2-87, Cl. 427-34.000.
Itoh, Yasuhiko: *See—*
Miyake, Yasuo; Tajima, Osamu; Nishioka, Masato; and Itoh, Yasuhiko, 4,686,157, Cl. 429-19.000.
Shinohara, Yoshihiro; Oizumi, Kiyoshi; Itoh, Yasuhiko; and Hori, Makoto, 4,658,892, Cl. 165-133.000.
Itoh, Yasuhiro, to Iwatsu Electric Co., Ltd. Differential amplifier system. 4,667,166, 5-19-87, Cl. 330-260.000.

Itoh, Yasuo, to Kabushiki Kaisha Toshiba. Semiconductor memory address lines with varied interval contact holes. 4,638,458, 1-20-87, Cl. 365-51.000.
Itoh, Yokichi: *See—*
  Hagiwara, Takaaki; Itoh, Yokichi; Kondo, Ryuji; Yatsuda, Yuji; and Minami, Shinichi, 4,654,828, Cl. 365-184.000.
Itoh, Yoshio; Ohtsuka, Hiroshi; Nishimuro, Tadashi; and Moriyama, Norio, to Oki Electric Industry Co., Ltd. Alignment mark on a semiconductor and a method of forming the same. 4,640,888, 2-3-87, Cl. 430-323.000.
Itoh, Yoshiro; Oogita, Yoshinori; Komaki, Shigeki; and Nakao, Kazuhiro, to Sharp Kabushiki Kaisha. Liquid crystal display panel with a metal plate in its terminal portion. 4,666,254, 5-19-87, Cl. 350-334.000.
Itoh, Yoshitaka: *See—*
  Matsuo, Nobutaka; Motoki, Masanobu; Itoh, Yoshitaka; Kanbe, Sadao; and Osafune, Haruo, 4,680,046, Cl. 65-17.000.
  Motoki, Masanobu; Matsuo, Nobutaka; Kanbe, Sadao; Osafune, Haruo; and Itoh, Yoshitaka, 4,680,048, Cl. 65-17.000.
Itoh, Yoshitoshi; Mizuno, Katsuhiro; and Noguchi, Atomi, to Hitachi, Ltd. Apparatus for transmitting optical image. 4,682,845, 7-28-87, Cl. 350-96.180.
Itoh, Yuichiro, to Rasa Corporation. Sewage treatment process. 4,671,881, 6-9-87, Cl. 210-703.000.
Itoh, Yuji; and Takahashi, Junichi, to Canon Kabushiki Kaisha. Ophthalmic photographic apparatus. 4,679,919, 7-14-87, Cl. 351-206.000.
Itoh, Yuji: *See—*
  Takahashi, Kazuhisa; Kawasaki, Keiichi; and Itoh, Yuji, 4,698,648, Cl. 346-108.000.
Itoh, Zen: *See—*
  Omura, Satoshi; and Itoh, Zen, 4,677,097, Cl. 514-29.000.
Itonaga, Makoto; and Kayanuma, Kanji, to Victor Company of Japan, Ltd. Rotating analyzer type ellipsometer. 4,653,924, 3-31-87, Cl. 356-369.000.
Itonaga, Makoto; and Kayanuma, Kanji, to Victor Company of Japan, Ltd. Film thickness measuring apparatus. 4,695,162, 9-22-87, Cl. 356-369.000.
Itonaga, Makoto, to Victor Company of Japan, Ltd. Recording disc and method for fabricating same. 4,716,560, 12-29-87, Cl. 369-275.000.
Itou, Hiroshi; Okane, Yukihiro; and Kuramoto, Akio, to Toyota Jidosha Kabushiki Kaisha. Intake air control device for an internal combustion engine. 4,693,222, 9-15-87, Cl. 123-432.000.
Itou, Masami: *See—*
  Buma, Shuuichi; Onuma, Toshio; Ohashi, Kaoru; and Itou, Masami, 4,693,494, Cl. 280-707.000.
  Buma, Shuuichi; Onuma, Toshio; Ohashi, Kaoru; and Itou, Masami, 4,714,271, Cl. 280-707.000.
  Buma, Shuuichi; Onuma, Toshio; Ohashi, Kaoru; and Itou, Masami, 4,714,272, Cl. 280-707.000.
Itou, Shouichi; Kaneko, Makoto; and Yasuhara, Hiroshi, to Tokyo Shibaura Denki Kabushiki Kaisha. X-ray diagnostic apparatus. 4,644,395, 2-17-87, Cl. 358-111.000.
Itou, Takaaki: *See—*
  Uranishi, Kouji; and Itou, Takaaki, 4,700,683, Cl. 123-519.000.
Itou, Takeo; Koike, Norio; and Sagow, Seiji, to Kabushiki Kaisha Toshiba. Color picture tube. 4,651,054, 3-17-87, Cl. 313-468.000.
Itou, Takeo: *See—*
  Sagou, Seiji; and Itou, Takeo, 4,687,825, Cl. 427-54.100.
  Takenaka, Shigeo; Koike, Norio; Itou, Takeo; and Matsuda, Hidemi, 4,692,659, Cl. 313-402.000.
Itou, Yoshizumi: *See—*
  Shiroshita, Osamu; Ishiguro, Yasuo; and Itou, Yoshizumi, 4,712,183, Cl. 364-513.000.
Itskovitch, Nathan M.: *See—*
  Roth, Philip M.; Itskovitch, Nathan M.; and Sussman, Arthur, 4,713,894, Cl. 34-30.000.
Itsubo, Akira: *See—*
  Hiratsuka, Kazuya; Sato, Yuichi; Aoki, Yoshiyasu; Yui, Hiroshi; Miyabayashi, Mitsutaka; and Itsubo, Akira, 4,702,977, Cl. 429-194.000.
Itsubo, Akiro: *See—*
  Hanamura, Eiichi; Tokura, Yoshinori; Takada, Akio; and Itsubo, Akiro, 4,678,736, Cl. 430-270.000.
Itsuji, Takayuki; and Ueno, Sadayasu, to Hitachi, Ltd.; and Hitachi Automotive Engineering Co., Ltd. Engine air-fuel ratio control apparatus. 4,676,213, 6-30-87, Cl. 123-440.000.
Itsuki, Fumiaki; and Oku, Seiji, to Omron Tateisi Electronics Co. Reflection-type photoelectric switching apparatus with light-adjustable reference light detection. 4,638,154, 1-20-87, Cl. 250-227.000.
Itsuki, Fumiaki: *See—*
  Nakama, Katsuhiko; Ninomiya, Hiroshi; Michishige, Toru; and Itsuki, Fumiaki, 4,709,976, Cl. 439-350.000.
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ITT Aerospace Optical: *See—*
  Willems, David A., 4,714,904, Cl. 333-148.000.
ITT Austria Gesellschaft m.b.H.: *See—*
  Naiwirt, Erich, 4,670,902, Cl. 379-338.000.
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  Szoboszlai, Istvan; and Roucher, Christian, 4,687,271, Cl. 439-350.000.
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  Alonso, Oscar, 4,654,262, Cl. 428-345.000.
  Andricos, Constantine, 4,652,883, Cl. 342-372.000.
  Anhalt, John W.; Goodman, David S.; and Selvin, Gerald J. 4,634,199, Cl. 339-17.00M.
  Austin, Robert R., 4,649,736, Cl. 73-29.000.
  Baker, Sol, 4,635,672, Cl. 137-202.000.
  Beery, Jack; and Broome, Barry G., 4,639,127, Cl. 355-35.000.
  Borsuk, Leslie M.; and Woith, Blake F., 4,666,238, Cl. 350-96.20
  Brooks, Forrest E., 4,682,163, Cl. 340-805.000.
  Butler, Ronald G.; and Lehman, John R., 4,683,906, Cl 137-375.000.
  Canter, Stanley; Warg, Paul A.; and Brooks, Forrest E., 4,668,049 Cl. 350-345.000.
  Chalet, Alain R. G., 4,638,474, Cl. 370-60.000.
  Chea, Ramon C. W., Jr., 4,656,659, Cl. 379-253.000.
  Chea, Ramon C. W., Jr., 4,674,119, Cl. 379-400.000.
  Clark, James M., 4,658,094, Cl. 380-28.000.
  Corrales, Patrick G., 4,712,860, Cl. 350-96.200.
  Cox, John E., 4,656,620, Cl. 370-58.000.
  Daie, Hedayat; Marsh, Charles H.; and Turner, Joe L., 4,669,11 Cl. 379-165.000.
  Deacon, George R.; and Cranford, William R., 4,711,752, Cl 264-328.120.
  DeSanti, Raymond J.; and St.Pierre, Girard T., 4,647,150, Cl 350-96.210.
  Elsmore, Jeff; Stoorza, Kenneth W.; and Walker, Timothy A. 4,683,469, Cl. 340-723.000.
  Erbe, Alfred R., 4,657,323, Cl. 339-17.00R.
  Evans, David S.; Smith, Mark G.; Middleton, Francisco A.; and Hargrave, Franklin, 4,656,651, Cl. 379-1.000.
  Foglesonger, John D.; and Vranson, David M., 4,638,273, Cl 333-254.000.
  Gann, Ronald A., 4,689,006, Cl. 431-46.000.
  Geiger, David J.; Lee, Sunny; and Busch, Eric, 4,702,592, Cl 355-53.000.
  Gerety, Eugene P., 4,638,311, Cl. 340-825.060.
  Gerety, Eugene P., 4,644,348, Cl. 340-825.060.
  Goldman, Stuart O.; and Bogan, Leonard E., 4,654,879, Cl 455-33.000.
  Hargrave, Franklin; and Middleton, Francisco A., 4,638,124, Cl 379-159.000.
  Hargrave, Franklin; Zeller, David A., Jr.; Smith, Mark G.; Hall, William L., III; and Middleton, Francisco A., 4,646,342, Cl 379-24.000.
  Hargrave, Franklin; and Middleton, Francisco A., 4,672,602, Cl 370-58.000.
  Harris, James W.; and Sink, Ronald A., 4,661,079, Cl. 445-22.00
  Heesch, Max O., 4,657,125, Cl. 192-41.00S.
  Heesch, Max O.; and Baker, James T., 4,657,304, Cl. 297-391.000
  Heesch, Max O.; and Russo, Vincent, 4,685,729, Cl. 297-193.000.
  Heesch, Max O., 4,696,515, Cl. 297-374.000.
  Hessler, William D., 4,661,041, Cl. 415-52.000.
  Hollis, Richard E., and Greene, Mark D., 4,688,448, Cl. 74-665.00L.
  Kadin, Joseph, 4,653,068, Cl. 375-1.000.
  Kamentser, Boris A., 4,706,503, Cl. 73-861.240.
  Kelly, Joseph F., 4,647,122, Cl. 339-14.00R.
  Kennedy, Paul G., 4,697,786, Cl. 251-309.000.
  Kennedy, Paul G., 4,698,886, Cl. 29-156.70R.
  Kline, Kevin B., 4,664,138, Cl. 137-183.000.
  Kneib, Kristine N., 4,641,238, Cl. 364-200.000.
  Landis, Richard C.; Griffin, Edward L.; and Bahl, Inder G. 4,647,878, Cl. 333-115.000.
  Landis, Richard C., 4,647,882, Cl. 333-239.000.
  Landis, Richard C., 4,673,904, Cl. 333-238.000.
  Liu, Shao H.; and Yudichak, Joseph R., 4,653,054, Cl. 371-61.00
  Middleton, Francisco A.; Hargrave, Franklin; and Cox, John E. 4,665,516, Cl. 370-76.000.
  Muzslay, Steven Z., 4,639,061, Cl. 339-59.00M.
  Palmer, Jerry D.; Janus, Robert J.; and Lambert, Larry D. 4,646,064, Cl. 340-392.000.
  Peckman, Robert; and Karbassiyoon, Kamran, 4,635,314, Cl 15-304.000.
  Powell, Lloyd J., 4,653,839, Cl. 339-176.00M.
  Russo, Vincent; and Heesch, Max O., 4,693,515, Cl. 297-391.000
  Sharp, James M., Jr., 4,648,112, Cl. 379-435.000.
  Shaver, Michael O., 4,654,547, Cl. 307-450.000.
  Smith, Mark G.; French, Karen J.; Zeller, David A., Jr.; Hargrave, Franklin; and Middleton, Francisco A., 4,654,869, Cl 379-107.000.
  Steffes, Helmut, 4,693,523, Cl. 303-114.000.
  Stottlemyer, William O., 4,641,339, Cl. 379-391.000.
  Toegel, Herbert J.; Yudichak, Joseph R.; and Gilsdorf, John F. 4,639,910, Cl. 370-58.000.
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  Watson, Christopher A., 4,636,792, Cl. 340-870.370.
  White, John S.; Vaughan, A. Dahlgren; and Akers, Francis I. 4,682,850, Cl. 350-96.230.
  Wolfson, Ronald I.; and Sterns, William G., 4,660,047, Cl. 34 700.0MS.
  Wurst, Walter K., 4,641,300, Cl. 370-16.000.
  Yanosy, John A., Jr.; Dennett, Anthony J.; and Hufnagel, John P. 4,677,611, Cl. 370-85.000.
  Yudichak, Joseph R.; and Toegel, Herbert J., 4,656,626, Cl 370-68.000.
  Zeller, David A., Jr., 4,668,902, Cl. 320-31.000.

T Defense Communications, a division of ITT Corporation: *See—*
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Kadin, Joseph, 4,694,466, Cl. 375-1.000.
T Electro Optical Products: *See—*
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T Electro Optical Products, a division of ITT Corporation: *See—*
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Porter, David R.; Bowen, James H.; and Holland, John M., 4,694,504, Cl. 455-608.000.
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T Gallium Arsenide Technology Center, a division of ITT Corpora-
ion: *See—*
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Landis, Richard C., 4,709,300, Cl. 361-398.000.
T Gilfillan: *See—*
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Albanese, Damian F.; and Sayano, Kanji F., 4,704,613, Cl. 342-458.000.
Foglesonger, John D.; and Vranson, David M., 4,689,876, Cl. 29-600.000.
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Sterns, William G., 4,710,734, Cl. 333-101.000.
Vlasak, Weldon R. H., 4,691,312, Cl. 370-4.000.
Industries, Inc: *See—*
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Baker, Peotr, 4,635,119, Cl. 358-166.000.
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Illg, Thomas, 4,660,140, Cl. 364-184.000.
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Langenkamp, Ulrich, 4,656,513, Cl. 358-147.000.
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Nill, Eberhard, 4,659,957, Cl. 313-402.000.
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Reinartz, Hans D., 4,662,688, Cl. 303-114.000.
Reinartz, Hans D., 4,693,083, Cl. 60-547.100.
Reinartz, Hans-Dieter; and Steffes, Helmut, 4,659,152, Cl. 303-114.000.
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Stahl, Torvald, 4,710,658, Cl. 310-71.000.
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Vatter, Waldemar; and Exner, Franz, 4,702,330, Cl. 180-6.200.
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Wagner, Wilfried, 4,643,075, Cl. 91-369.00A.
Wupper, Hans, 4,634,190, Cl. 303-114.000.
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Iuchi, Munenori, to Sumitomo Rubber Industries Ltd. Pneumatic radial tires for heavy vehicles. 4,688,616, 8-25-87, Cl. 152-541.000.
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Iuchi, Tohru, to Nippon Steel Corporation. Method for quantitatively detecting the decarburization reaction in the production process of an electrical steel sheet. 4,647,319, 3-3-87, Cl. 148-128.000.
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Iura, Takao: *See—*
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Maget, Henri J. R., 4,648,955, Cl. 204-258.000.
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Martin, Stephen A.; Landis, Terry L.; and Bizzigotti, Richard A., 4,668,216, Cl. 604-30.000.
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Ivanov, Chavdar B.; Mondeshka, Donka M.; Berova, Nikolina D.; Rakovska, Rossitza S.; Panova, Yordanka T.; Markov, Marko T.; Ovcharov, Radi G.; Usunov, Peiko D.; and Zabunova, Orhideya B., to T P O "Pharmachim". 1-(3,4-dimethylbenzyl)-2-(N-alkyl)-carbamoyl tetrahydroiso quinolines. 4,678,853, 7-7-87, Cl. 546-146.000.
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Nagamori, Hiroyuki; Mukai, Takashi; Tsushima, Rikio; Kuwamoto, Hiroshi; Iwado, Shuichi; and Sharyo, Takeru, 4,650,595, Cl. 252-32.500.

Iwadoo, Shuichi: *See—*

Kuwamoto, Hiroshi; Iwadoo, Shuichi; Okami, Yuji; Nagamori, Hiroyuki; and Nakagawa, Yasuhiro, 4,693,839, Cl. 252-51.50A.

Iwafune, Kasuke, to Victor Company of Japan, Ltd. Video signal recording and reproducing apparatus including a noise reduction circuit. 4,641,206, 2-3-87, Cl. 360-33.100.

Iwahara, Makoto; Miyaji, Naotaka; and Sakamoto, Atsushi, to Victor Company of Japan, Ltd. Microphone apparatus having a variable directivity pattern. 4,696,043, 9-22-87, Cl. 381-92.000.

Iwahara, Makoto: *See—*

Sakamoto, Atsushi; and Iwahara, Makoto, 4,703,506, Cl. 381-92.000.

Suzuki, Kiyoaki; Iwahara, Makoto; Suzuki, Hidetsugu; and Sakamoto, Atsushi, 4,672,434, Cl. 358-88.000.

Iwahara, Takahisa: *See—*

Isayama, Katsuhiko; Hirose, Toshifumi; Iwahara, Takahisa; and Kawakubo, Fumio, 4,657,986, Cl. 525-407.000.

Iwahashi, Haruo, to Konishiroku Photo Industry Co., Ltd. Electrophotographic apparatus for obtaining visible images by irradiation of an amorphous silicon photosensitive member and method therefore. 4,669,855, 6-2-87, Cl. 355-3.00R.

Iwahashi, Henry H.: *See—*

Herst, Douglas J.; and Iwahashi, Henry H., 4,706,170, Cl. 362-217.000.

Iwahashi, Hiroshi; and Masuoka, Fujio, to Tokyo Shibaura Denki Kabushiki Kaisha. Semiconductor memory device. 4,635,232, 1-6-87, Cl. 365-200.000.

Iwahashi, Hiroshi; and Ochii, Kiyofumi, to Tokyo Shibaura Denki Kabushiki Kaisha. Semiconductor memory device. 4,639,895, 1-27-87, Cl. 365-200.000.

Iwahashi, Hiroshi, to Kabushiki Kaisha Toshiba. Semiconductor memory device. 4,677,591, 6-30-87, Cl. 365-189.000.

Iwahashi, Hiroshi; Asano, Masamichi; and Narita, Akira, to Kabushiki Kaisha Toshiba; and Tosbac Computer System Co., Ltd. Electrostatic discharge protection circuit with variable limiting threshold for MOS device. 4,692,834, 9-8-87, Cl. 361-91.000.

Iwahashi, Hiroshi; Asano, Masamichi; Momodomi, Masaki; Minagawa, Hidenobu; Suzuki, Kazuto; and Narita, Akira, to Kabushiki Kaisha Toshiba; Toshiba Micro-Computer Engineering Corp.; and Tosbac Computer System Co., Ltd. Read/write control circuit. 4,697,101, 9-29-87, Cl. 307-452.000.

Iwahashi, Hiroshi, to Kabushiki Kaisha Toshiba. Semiconductor memory device with plural latches for read out. 4,715,017, 12-22-87, Cl. 365-239.000.

Iwahashi, Tohru; Sunami, Yoshihiko; and Miyamura, Tadashi, to Sumitomo Metal Industries, Ltd. Method of manufacturing carbon materials. 4,671,907, 6-9-87, Cl. 264-29.500.

Iwahori, Hiroaki: *See—*

Yonekura, Koji; Suzuki, Kenichi; Takahashi, Yoshiyasu; and Iwahori, Hiroaki, 4,643,241, Cl. 164-101.000.

Iwahori, Hiroshi: *See—*

Hayashi, Masahiko; and Iwahori, Hiroshi, 4,687,522, Cl. 134-8.000.

Iwai, Hideo; Kondo, Fumitomo; and Kimura, Akio, to Tokyo Kogaku Kikai Kabushiki Kaisha. Rotation axis fine adjustment apparatus. 4,656,878, 4-14-87, Cl. 74-89.150.

Iwai, Hiroji, to Sharp Kabushiki Kaisha. Paper feed control in a printer. 4,645,365, 2-24-87, Cl. 400-568.000.

Iwai, Hiroji; and Yamaji, Koji, to Sharp Kabushiki Kaisha. Error correction member positioning system for a printer. 4,648,731, 3-10-87, Cl. 400-240.100.

Iwai, Hiroji: *See—*

Tsumura, Takeo; Iwai, Hiroji; and Kadoya, Atsushi, 4,708,505, Cl. 400-697.100.

Iwai, Ikuo: *See—*

Hiramoto, Tatsumi; Iwai, Ikuo; Ohyama, Masachika; and Narita, Mitsuo, 4,704,346, Cl. 430-311.000.

Iwai, Itsuo: *See—*

Anno, Nobuo; Iwai, Itsuo; and Kamezaki, Takashi, 4,674,996, C 474-10.000.

Ichihara, Eiichi; and Iwai, Itsuo, 4,709,667, Cl. 123-90.340.

Iwai, Kazuhiro, to Honda Giken Kogyo Kabushiki Kaisha. Air intake system and cooling system relation for three-wheeled motor vehicle with riding saddle. 4,637,486, 1-20-87, Cl. 180-225.000.

Iwai, Kazuo, to Ajinomoto Co., Inc. Acceleration of lipid metabolism using vanillylamine derivatives. 4,680,313, 7-14-87, Cl. 514-627.000.

Iwai, Kenji: *See—*

Asakuno, Hiroyoshi; Mori, Kinya; Suzuki, Kiyoaki; Nishida, Mamoru; Iwai, Kenji; Tamamushi, Masahiro; and Kawasaki, Teruo, 4,638,030, Cl. 524-536.000.

Makabe, Eiichi; Uesugi, Mitsuaki; Inomata, Masaichi; Maruyama, Kyusuke; Iwai, Kenji; and Sano, Kazuo, 4,716,459, C 358-106.000.

Iwai, Mieko; Tominaga, Yoshio; and Nakanishi, Katsumi, to Daikin Kogyo Co., Ltd.; Iwai, Mieko; and Tominaga, Yoshio. Heat-resistant lipase. 4,665,029, 5-12-87, Cl. 435-198.000.

Iwai, Nobuo, to Alps Electric Co., Ltd. Optical head position control device. 4,641,020, 2-3-87, Cl. 250-201.000.

Iwai, Shingo: *See—*

Suzuki, Ryozo; Shiraga, Jun; Iwai, Shingo; and Okashiro, Tet 4,682,936, Cl. 417-366.000.

, Shinichi; and Uno, Sakae, to International Business Machines orporation. Digital display system with color lookup table. 710,806, 12-1-87, Cl. 358-81.000.

, Shiyougo, to Sharp Kabushiki Kaisha. Automatic duplex copier ith circulating document handler. 4,688,928, 8-25-87, Cl. 355- .0SH.

, Shiyougo, to Sharp Kabushiki Kaisha. Automatic duplex copying achine and method of treating paper jamming therefor. 4,692,022, 8-87, Cl. 355-24.000.

, Tomio, to Sanshin Kogyo Kabushiki Kaisha. Cowling assembly r an outboard engine. 4,661,076, 4-28-87, Cl. 440-77.000.

, Tomio; and Nakahama, Ryoji, to Sanshin Kogyo Kabushiki aisha. Mounting arrangement for outboard drive. 4,673,358, 16-87, Cl. 440-61.000.

, Tomio; and Matsushita, Yukio, to Sanshin Kogyo Kabushiki aisha. Outboard motor with turbo-charger. 4,677,826, 7-7-87, Cl. -602.000.

, Yoshiyuki: *See—*

- 'amamoto, Hiroshi; Satoh, Shuichi; Iwai, Yoshiyuki; Ae, Osamu; Suda, Masao; Shiozaki, Minoru; Tsuchiya, Kiyoshi; Nakano, Manabu; Ogata, Kojiro; Miyanagi, Naoki; Ono, Kozo; and Tobita, Nobuyuki, 4,653,594, Cl. 173-49.000.

Yuzuru: *See—*

-)mura, Satoshi; Iwai, Yuzuru; Hinotozawa, Kiyoizumi; and Hirano, Atsushi, 4,666,715, Cl. 424-122.000.

ami, Shinobu: *See—*

- Terajima, Yushi; Tokuda, Katsuhiko; Nakamura, Shoji; Uehara, Keiichi; Ichikawa, Hideyuki; and Iwakami, Shinobu, 4,663,080, Cl. 252-522.00R.

awa, Tsunekiyo: *See—*

-)ida, Osamu; and Iwakawa, Tsunekiyo, 4,716,341, Cl. 315-169.400.

awa, Yoshihiro: *See—*

- Matsuda, Shohei; and Iwakawa, Yoshihiro, 4,690,464, Cl. 303-115.000.

, Akihiro, to Stanley Electric Co., Ltd. Lighting fixture for vehi- 4,680,678, 7-14-87, Cl. 362-61.000.

, Akihiro; and Tajima, Masayoshi, to Stanley Electric Co., Ltd. mbination vehicle lamp device. 4,680,680, 7-14-87, Cl. 362-80.000.

, Akihiro: *See—*

- Kochi, Takeshi; Iwaki, Akihiro; and Tajima, Masayoshi, 4,670,823, Cl. 362-268.000.

Co., Ltd.: *See—*

- Hirakawa, Norishige; Okada, Kazuo; and Sato, Kazuhiko, 4,684,333, Cl. 417-420.000.

Glass Company Ltd.: *See—*

- eki, Hiroshi; and Nishiyuki, Toshiki, 4,704,370, Cl. 501-15.000.

, Hiroshi, to Sanyo Electric Co., Ltd. Apparatus for scanning an ginal. 4,645,329, 2-24-87, Cl. 355-8.000.

, Hiroshi: *See—*

- ujio, Akihiko; Iwaki, Hiroshi; Tsuboi, Kunio; and Sutoh, Akihiko, 4,711,551, Cl. 355-3.0DD.
- an, Yuji; and Iwaki, Hiroshi, 4,697,803, Cl. 271-127.000.

Masato, to Mazda Motor Corp. Idling speed control systems for rnal combustion engines. 4,691,675, 9-8-87, Cl. 123-339.000.

, Masaya: *See—*

- hira, Shigeo; and Iwaki, Masaya, 4,698,233, Cl. 427-38.000.

Osamu: *See—*

- lorita, Tsuneharu; Ikeyama, Toshiharu; Iwaki, Osamu; and Katsuta, Hisao, 4,705,445, Cl. 414-280.000.

Takashi; and Hayashi, Takashi, to Kabushiki Kaisha Toyoda shokki Seisakusho. Torque detecting apparatus for electrical ver steering system. 4,676,331, 6-30-87, Cl. 180-79.100.

Tsugishige: *See—*

- amamoto, Shigehiro; Hashimoto, Terukuni; Kobayashi, Mitsuo; Iwaki, Tsugishige; Tamura, Katsushige; and Saijo, Hideo, 4,702,872, Cl. 264-114.000.

Yuichi: *See—*

- amabayashi, Sadayoshi; and Iwaki, Yuichi, 4,688,514, Cl. 118-64.000.

i, Norio: *See—*

- agata, Kunio; Aoi, Tatsuo; Iwakiri, Norio; Osumi, Hiroshi; Ogata, Nobuyuki; and Yamane, Norihito, 4,681,994, Cl. 200-16.00B.

, Akinobu, to Citizen Watch Co., Ltd. Control circuit of direct ent servomotor for floppy disk drive. 4,706,005, 11-10-87, Cl. 603.000.

, Motonari; and Nakao, Masaaki, to Kabushiki Kaisha Hunken. hod and apparatus for continuously mixing and kneading pulver- t bodies such as pulverized coal, oil coke to prepare slurry eof. 4,691,867, 9-8-87, Cl. 241-21.000.

a, Ken; and Sugiyama, Takekatsu, to Fuji Photo Film Co., Ltd. ording materials. 4,682,193, 7-21-87, Cl. 503-209.000.

a, Ken: *See—*

- tomura, Masato; Igarashi, Akira; and Iwakura, Ken, 4,644,377, Cl. 346-221.000.
- tomura, Masato; Iwakura, Ken; and Kawakami, Hiroshi, 4,701,565, Cl. 568-644.000.
- kashima, Masanobu; Satomura, Masato; Iwakura, Ken; and Igarashi, Akira, 4,707,464, Cl. 503-216.000.

a, Koichi, to Mitsui Seiki Kogyo Co., Ltd. High-frequency r incorporating tool drawing-up device therein. 4,668,137, 87, Cl. 409-233.000.

a, Mararu: *See—*

- toh, Eiji; Iwakura, Mararu; Kamimura, Hiroto; Nishi, Yasunori; and Kojima, Masamitsu, 4,699,530, Cl. 384-609.000.

Iwakura, Tatsuya: *See—*

- Takazoe, Ichiro; Ohta, Kosei; Shimizu, Junichi; Suzuki, Kazumasa; Iwakura, Tatsuya; and Nakajima, Yoshikazu, 4,695,326, Cl. 127-30.000.

Iwakura, Yoichi: *See—*

- Inoguchi, Kenichi; Iwakura, Yoichi; and Umehara, Jun, 4,644,919, Cl. 123-438.000.
- Inoguchi, Kenichi; Iwakura, Yoichi; Tanaka, Hirofumi; and Umehara, Jun, 4,676,204, Cl. 123-179.00G.

Iwama, Katsuaki; Takahashi, Mutsuo; and Shibata, Haruo, to Matsushita Electronics Corporation. High color rendering fluorescent lamp. 4,705,986, 11-10-87, Cl. 313-487.000.

Iwama, Nobuyuki, to Kabushiki Kaisha Toshiba. Electronic clinical thermometer with power shut-off at maximum temperature. 4,658,407, 4-14-87, Cl. 377-25.000.

Iwama, Norio: *See—*

- Asano, Katsuhiro; Inaguma, Yukio; and Iwama, Norio, 4,641,075, Cl. 318-811.000.

Iwama, Shinichi, to Daiwa Seiko Inc. Ski boot. 4,649,657, 3-17-87, Cl. 36-117.000.

Iwama, Shinichi: *See—*

- Miyoshi, Terumasa; and Iwama, Shinichi, 4,658,517, Cl. 36-117.000.

Iwama, Teruhiko, to Nitsuko Limited. Simple data input apparatus. 4,682,014, 7-21-87, Cl. 235-375.000.

Iwamatsu, Noboru: *See—*

- Kawada, Shigeki; Amemiya, Yoichi; Sogabe, Masatoyo; and Iwamatsu, Noboru, 4,661,736, Cl. 310-156.000.
- Kawada, Shigeki; Amemiya, Yoichi; Sogabe, Masatoyo; and Iwamatsu, Noboru, 4,700,097, Cl. 310-162.000.

Iwami, Morita: *See—*

- Kohsaka, Masanobu; Terano, Hiroshi; Komori, Tadaaki; Iwami, Morita; Yamashita, Michio; Hashimoto, Masashi; Uchida, Itsuo; and Takase, Shigehiro, 4,645,765, Cl. 514-233.000.
- Nishikawa, Motoaki; Iwami, Morita; Yoshida, Keizo; and Kohsaka, Masanobu, 4,661,352, Cl. 424-117.000.

Iwami, Munenori: *See—*

- Hazano, Shigeki; Shibagaki, Masahiro; Jyo, Hidetaka; Sensui, Reiichiro; Iwami, Munenori; and Suzuki, Noboru, 4,693,777, Cl. 156-345.000.

Iwami, Tomonori: *See—*

- Nogi, Tatsuo; Iwami, Tomonori; and Tanaka, Kazumi, 4,678,581, Cl. 210-500.230.

Iwami, Tomoyuki, to International Business Machines Corp. Digital raster scan display system. 4,682,297, 7-21-87, Cl. 364-521.000.

Iwamoto, Akito: *See—*

- Sekizawa, Hidekazu; Iwamoto, Akito; Yamamoto, Naofumi; and Yoneda, Hitoshi, 4,661,843, Cl. 358-80.000.
- Sekizawa, Hidekazu; and Iwamoto, Akito, 4,675,727, Cl. 358-75.000.

Iwamoto, Eiji: *See—*

- Yamawaki, Masakatsu; Sakamoto, Isamu; Mizusawa, Kenichi; and Iwamoto, Eiji, 4,642,467, Cl. 250-492.300.

Iwamoto, Hidenori: *See—*

- Tamura, Toshinari; Iwamoto, Hidenori; Yoshida, Makoto; and Yamamoto, Minoru, 4,636,567, Cl. 548-336.000.

Iwamoto, Hideo: *See—*

- Kawai, Akio; Ito, Ken; and Iwamoto, Hideo, 4,639,676, Cl. 324-380.000.

Iwamoto, Hirofumi: *See—*

- Shirato, Yoshiaki; Komatsu, Toshiyuki; Seito, Shinichi; Kawai, Tatsundo; Iwamoto, Hirofumi; Nakagawa, Katsumi; and Kuroda, Yasuo, 4,680,644, Cl. 358-294.000.

Iwamoto, Hiroshi; and Taguchi, Yoshio, to Nissan Motor Company, Limited. Cooling structure for multi-cylinder piston-engine cylinder block. 4,665,867, 5-19-87, Cl. 123-41.280.

Iwamoto, Hiroshi: *See—*

- Nakagawa, Hiroshi; Iwamoto, Hiroshi; Kanada, Hiroshi; Kato, Kazumichi; and Kurita, Yutaka, 4,668,883, Cl. 310-12.000.

Iwamoto, Hisao: *See—*

- Matsubayashi, Hiroshi; Hirota, Kazumi; Iwamoto, Hisao; Fujiwara, Tamio; Sato, Nobuyuki; and Katsura, Tadahiko, 4,686,152, Cl. 428-607.000.
- Watanabe, Nobuhisa; Iwamoto, Hisao; Nasuno, Toshihiro; and Sakamaki, Yoshio, 4,684,017, Cl. 206-235.000.

Iwamoto, Joji: *See—*

- Shirasu, Hiroshi; Shimeno, Kazuhiro; and Iwamoto, Joji, 4,710,604, Cl. 219-121.0LU.

Iwamoto, Katsuharu; Kawakami, Osamu; Miyagawa, Hideo; Tashiro, Ikuo; and Ishimura, Takiji, to Kabushiki Kaisha Toshiba. Pressure measuring system. 4,687,927, 8-18-87, Cl. 250-231.00P.

Iwamoto, Katsuo: *See—*

- Iida, Yoshiaki; and Iwamoto, Katsuo, 4,642,141, Cl. 148-113.000.

Iwamoto, Masayuki; Araki, Setsuo; and Sone, Yasuo, to Shinohara Machinery Co., Ltd. Reversing gripper of one side and perfecting printing press. 4,700,626, 10-20-87, Cl. 101-230.000.

Iwamoto, Michinori: *See—*

- Shimizu, Tetsuo; Tujimura, Kiyoharu; and Iwamoto, Michinori, 4,695,034, Cl. 251-129.060.

Iwamoto, Mune: *See—*

- Matsubara, Tetsuyuki; Ito, Norifumi; Iwamoto, Mune; and Ando, Toshihiko, 4,699,976, Cl. 528-501.000.

Iwamoto, Tadashi; and Sumida, Shizuo, to Mazda Motor Corporation. Solid-state information display apparatus for automobile vehicle. 4,646,059, 2-24-87, Cl. 340-52.00F.

Iwamoto, Tadashi; Ikeda, Toshiki; Yukitomo, Kazuo; Hattori, Masaichi; Arakawa, Kaneyasu; Kihira, Koichi; and Hanaki, Akira, to

Mazda Motor Corporation; and Kabushiki Kaisha Tokai Rika Denki Seisakusho. Dimmer passing device for headlamp of vehicle. 4,683,403, 7-28-87, Cl. 315-83.000.

Iwamoto, Taro: *See—*
  Hosoda, Yuji; Honma, Kazuo; Fujie, Masakatsu; Iwamoto, Taro; Kamejima, Kohji; and Nakano, Yoshiyuki, 4,709,342, Cl. 364-558.000.

Iwamoto, Tetsuo: *See—*
  Amemori, Hiroyuki; Nishiyama, Shigeru; and Iwamoto, Tetsuo, 4,694,702, Cl. 73-861.240.

Iwamoto, Tomiyuki; Hayakawa, Naoki; and Matsubara, Shigeru, to Terumo Corporation. High pressure steam sterilized plastic container holding infusion solution and method for manufacturing the same. 4,657,540, 4-14-87, Cl. 604-408.000.

Iwamoto, Toshiaki: *See—*
  Tada, Hiroshi; Kido, Masanari; Masunaga, Hidehiko; Iwamoto, Toshiaki; Ishimoto, Tuneyoshi; and Matsui, M., 4,666,782, Cl. 428-423.900.

Iwamoto, Toshiyuki: *See—*
  Watanabe, Keisuke; and Iwamoto, Toshiyuki, 4,653,378, Cl. 84-423.00R.
  Watanabe, Keisuke; and Iwamoto, Toshiyuki, 4,668,843, Cl. 200-5.00A.

Iwamoto, William T. Offshore structure for deepsea production. 4,685,833, 8-11-87, Cl. 405-195.000.

Iwamoto, Yasushi: *See—*
  Beppu, Teruhiko; Iwamoto, Yasushi; and Yoshida, Minoru, 4,690,918, Cl. 514-23.000.

Iwamoto, Yoshinao; Shirasaki, Yuichi; Fujise, Masayuki; and Asakawa, Kenichi, to Kokusai Denshin Denwa Co., Ltd. Optical fiber with light reflecting particles dispersed through buffer layers to dissipate leaky cladding modes. 4,637,686, 1-20-87, Cl. 350-96.290.

Iwamoto, Yoshinao: *See—*
  Asakawa, Kenichi; Shirasaki, Yuichi; and Iwamoto, Yoshinao, 4,641,915, Cl. 350-96.180.
  Yamamura, Kazuomi; Ishihara, Hideo; Iwamoto, Yoshinao; Suzuki, Shizuo; Sirasaki, Yuichi; and Asakawa, Kenichi, 4,678,371, Cl. 405-164.000.

Iwamura, Jun, to Tokyo Shibaura Denki Kabushiki Kaisha. Analog to digital converter. 4,635,037, 1-6-87, Cl. 340-347.0AP.

Iwamura, Masahiro; and Masuda, Ikuro, to Hitachi, Ltd. Bi-MOS buffer circuit. 4,694,202, 9-15-87, Cl. 307-475.000.

Iwamura, Masahiro: *See—*
  Masuda, Ikuro; Iwamura, Masahiro; and Nishihara, Motohisa, 4,661,723, Cl. 307-446.000.
  Suzuki, Yukio; Masuda, Ikuro; Iwamura, Masahiro; Kadono, Shinji; Uragami, Akira; Yoshimura, Masayoshi; and Matsubara, Toshiaki, 4,689,503, Cl. 307-446.000.
  Uragami, Akira; Suzuki, Yukio; Kadono, Shinji; Iwamura, Masahiro; Masuda, Ikuro; and Yamauchi, Tatsumi, 4,678,943, Cl. 307-473.000.
  Uragami, Akira; Suzuki, Yukio; Iwamura, Masahiro; and Masuda, Ikuro, 4,694,203, Cl. 307-446.000.

Iwamura, Yoshinari; Okimoto, Katsunori; Teshima, Toshio; Miyahara, Shinobu; Uchida, Shigetaka; Sera, Taizo; and Ozawa, Koichi, to Nippon Kokan Kabushiki Kaisha; and H. Ikeuchi & Co., Ltd. Spray nozzle. 4,646,977, 3-3-87, Cl. 239-590.500.

Iwamura, Yoshio: *See—*
  Miyagawa, Teiji; Iwamura, Yoshio; and Hayakawa, Masao, 4,696,452, Cl. 251-25.000.

Iwamuro, Masao: *See—*
  Shimba, Satoru; Iwamuro, Masao; Ito, Kenji; Suzuki, Katutoyo; and Hamada, Fumio, 4,666,825, Cl. 430-385.000.

Iwanaga, Atsumasa: *See—*
  Fujimura, Hiroshi; Kobayashi, Hideharu; Kaneko, Shozo; Iwanaga, Atsumasa; and Ichinari, Joji, 4,676,425, Cl. 228-45.000.

Iwanaga, Hironobu: *See—*
  Aoki, Motohisa; and Iwanaga, Hironobu, 4,680,246, Cl. 430-133.000.

Iwanaga, Kazuyoshi, to Nissan Motor Co., Ltd. Automatic transmission case. 4,693,141, 9-15-87, Cl. 74-606.00R.

Iwanaga, Shoichi: *See—*
  Kaneyasu, Masayoshi; Arima, Hideo; Ito, Mitsuko; Iwanaga, Shoichi; Sato, Nobuo; Noro, Takanobu; Ikagami, Akira; and Isogai, Tokio, 4,638,443, Cl. 364-497.000.

Iwanaga, Yukiya: *See—*
  Yokoyama, Hitoshi; and Iwanaga, Yukiya, 4,708,876, Cl. 426-33.000.

Iwanaga, Yushi: *See—*
  Suzuki, Kempei; Iwanaga, Yushi; Sato, Hiroshi; Sato, Kohei; Igarashi, Noriyuki; and Koya, Shinichi, 4,691,831, Cl. 209-573.000.

Iwanaka, Masaya; and Kajiwara, Seiji, to Nippon Chem-Con Corp.; and Koide, Hideo. Electroacoustic transducer. 4,637,489, 1-20-87, Cl. 181-160.000.

Iwanami, Kiyoharu: *See—*
  Komatsu, Fumito; Toyama, Akiyoshi; Oguchi, Yuzo; and Iwanami, Kiyoharu, 4,648,001, Cl. 360-133.000.

Iwanami, Shigeki; Inagaki, Mitsuo; and Sasaya, Hideaki, to Nippon Soken, Inc. Scroll pump with axially spaced pumping chambers in series. 4,650,405, 3-17-87, Cl. 418-5.000.

Iwanami, Teruo; and Moriyama, Takamasa, to Nippon Gohsei Kagaku Kogyo Kabushiki Kaisha. Process for producing molded article comprising hydrotalcite, EVOH, and olefin resin. 4,704,423, 11-3-87, Cl. 524-417.000.

Iwanami, Teruo: *See—*
  Hasegawa, Kenji; Sato, Tetsuo; and Iwanami, Teruo, 4,713,266, Cl. 427-412.500.

Iwanczuk, Paul: *See—*
  Peterman, Stanley; Orrestad, Charles W.; and Iwanczuk, Paul, 4,637,672, Cl. 339-61.00R.

Iwane, Hiroshi: *See—*
  Imanari, Makoto; Iwane, Hiroshi; Kuzira, Katsufumi; and Seto, Takatoshi, 4,659,841, Cl. 548-508.000.
  Takeda, Makoto; Iwane, Hiroshi; Yoshida, Akira; and Mori, Teruo, 4,700,008, Cl. 568-374.000.

Iwano, Hideaki: *See—*
  Kawamura, Takao; Iwano, Hideaki; Miyamoto, Naooki; and Nishiguchi, Yasuo, 4,666,808, Cl. 430-65.000.
  Kawamura, Takao; Iwano, Hideaki; Miyamoto, Naooki; and Nishiguchi, Yasuo, 4,675,264, Cl. 430-65.000.

Iwano, Hideo, to Mitutoyo Mfg. Co., Ltd. Method of measuring by coordinate measuring instrument and coordinate measuring instrument. 4,653,011, 3-24-87, Cl. 364-513.000.

Iwano, Hideo; and Shudo, Kazuo, to Mitutoyo Mfg. Co., Ltd. Coordinate measuring instrument. 4,677,755, 7-7-87, Cl. 33-503.000.

Iwano, Hiroshi; Yamamoto, Tadahiro; Ota, Tadaki; Ogane, Hiroshi; Ohnishi, Eiichi; and Yonezawa, Atsushi, to Nissan Motor Co., Ltd. Fuel supply system. 4,699,110, 10-13-87, Cl. 123-472.000.

Iwano, Naoto: *See—*
  Morimoto, Takeshi; Matsubara, Toshiya; Hamatani, Yoshi Iwano, Naoto; Shimizu, Hideo; Komatsu, Shigeo; and Yamada, Hidemi, 4,689,724, Cl. 361-433.000.

Iwano, Shoji: *See—*
  Nakamura, Hisao; and Iwano, Shoji, 4,649,001, Cl. 264-50.000.

Iwano, Tatsuya: *See—*
  Nakagawa, Masatsugu; and Iwano, Tatsuya, 4,701,755, Cl. 340-825.020.

Iwans, Robert C.: *See—*
  Wiley, Ronald L.; and Iwans, Robert C., 4,674,656, Cl. 222-129.100.

Iwanski, Donald P., to PPG Industries, Inc. Calcium hypochlorite tablet. 4,692,335, 9-8-87, Cl. 424-149.000.

Iwanski, Thomas J.: *See—*
  Hanson, Leon L.; and Iwanski, Thomas J., 4,671,535, Cl. 280-718.000.

Iwao, Nomura; Masuyama, Takayuki; Tanigawa, Yasuo; and Hasim Hirofumi, to Toyota Jidosha Kabushiki Kaisha. Apparatus for opening and closing a vehicle door which is located in a line for manufacturing a vehicle. 4,702,666, 10-27-87, Cl. 414-730.000.

Iwaoka, Hideto; Sugiyama, Tadashi; and Matsuura, Hiroyuki, to Yokogawa Hokushin Electric Corporation. Examination method and apparatus utilizing nuclear magnetic resonance. 4,651,097, 3-17-87, Cl. 324-309.000.

Iwaoka, Hideto; Sugiyama, Tadashi; Matsuura, Hiroyuki; and Hira Takaaki, to Yokogawa Electric Corporation. Nuclear magnetic resonance imaging device. 4,694,250, 9-15-87, Cl. 324-309.000.

Iwaoka, Hideto: *See—*
  Inoue, Yuji; Iwaoka, Hideto; and Sugiyama, Tadashi, 4,716,370, Cl. 324-319.000.
  Shimazaki, Toru; Watanabe, Yoshihiko; and Iwaoka, Hideto, 4,700,138, Cl. 324-322.000.
  Sugiyama, Tadashi; Iwaoka, Hideto; and Matsuura, Hiroyuki, 4,665,368, Cl. 324-318.000.
  Yamaguchi, Keiki; Inoue, Yuji; Iwaoka, Hideto; and Sugiyama, Tadashi, 4,663,592, Cl. 324-315.000.
  Yamaguchi, Keiki; Hoshino, Kazuya; and Iwaoka, Hideto, 4,684,889, Cl. 324-308.000.
  Yamaguchi, Keiki; Iwaoka, Hideto; Sugiyama, Tadashi; and Inoue, Yuji, 4,700,136, Cl. 324-309.000.

Iwaoka, Nobuo, to Seiwa Instruments Manufacturing Co., Ltd. Binocular focusing device. 4,674,847, 6-23-87, Cl. 350-552.000.

Iwaosa, Katsuaki: *See—*
  Sumi, Seiichi; and Iwaosa, Katsuaki, 4,666,827, Cl. 430-567.000.

Iwasa, Hiroki: *See—*
  Baba, Takeshi; Iwasa, Hiroki; Nagasaka, Chikao; and C Kyozo, 4,645,299, Cl. 350-99.000.

Iwasa, Hitoo: *See—*
  Kawabata, Toshiharu; Koike, Susumu; Matsuda, Toshio; and Iwasa, Hitoo, 4,671,829, Cl. 148-171.000.

Iwasa, Koji; Kamamori, Hitoshi; Suginoya, Mitsuru; Sano, Yasuo; Terada, Yumiko; Kato, Naoki; Suzuki, Tameyuki; Yasukawa, J ichi; Nomura, Toyokazu; Tohda, Kazuo; and Itoh, Shinji, to Sei Instruments & Electronics Ltd.; and Shinto Paint Co., Ltd. Electrically conductive high molecular resin composition for electrodeposition coating. 4,670,188, 6-2-87, Cl. 252-513.000.

Iwasa, Koji: *See—*
  Harada, Takamasa; Tagushi, Masaaki; and Iwasa, Koji, 4,715, Cl. 350-350.00S.
  Suginoya, Mitsuru; Iwasa, Koji; Kamamori, Hitoshi; Sano, Y and Terada, Yumiko, 4,639,088, Cl. 350-339.00F.
  Suginoya, Mitsuru; Iwasa, Koji; Kamamori, Hitoshi; Sano, Y and Terada, Yumiko, 4,704,559, Cl. 315-169.100.

Iwasa, Masakazu; Morita, Kazuhiko; Nakatani, Sadao; and Naka Eiji, to Fuji Photo Film Co., Ltd.; and Sumitomo Bakelite Com Limited. Colored jacket for floppy disk. 4,670,314, 6-2-87, Cl. 428-35.000.

Iwasa, Nob T. Color coding cassette. 4,658,960, 4-21-87, Cl. 206-459.000.

Iwasa, Tadanobu; and Yokoi, Hiroshi, to Toyoda Gosei Co., Lt Rubber adhesive. 4,686,122, 8-11-87, Cl. 427-388.300.

vasa, Tadanobu: *See—*
Sugita, Hiroshi; Iwasa, Tadanobu; Yasukawa, Takemasa; and Aritake, Masanori, 4,638,525, Cl. 15-250.360.

vasa, Yamahiro, to Asahi Chemical Research Laboratory Co., Ltd. Method for producing a multilayer printed-circuit board. 4,683,653, 8-4-87, Cl. 29-830.000.

vasa, Yamahiro; Kabe, Atsushi; and Oba, Yoichi, to Asahi Chemical Research Laboratory Co., Ltd. Automatic soldering apparatus and method of using the flux to heat the circuit board. 4,684,054, 8-4-87, Cl. 228-180.100.

vasa, Yoshihiro; Masuda, Toru; and Shibano, Yasuji, to Hosiden Electronics Co., Ltd. Connector for printed board connection. 4,715,819, 12-29-87, Cl. 439-31.000.

vasa, Yoshio, to Nissan Motor Co., Ltd. Supercharging pressure control device for an exhaust gas turbocharger. 4,633,670, 1-6-87, Cl. 60-603.000.

vasa, Yoshio, to Nissan Motor Co., Ltd. Device for controlling supercharging pressure of exhaust gas turbocharger. 4,658,586, 4-21-87, Cl. 60-602.000.

asa, Yoshio: *See—*
Ura, Shozabu; and Iwasa, Yoshio, 4,643,136, Cl. 123-52.00M.

asa, Yuzaburo: *See—*
Yamaoka, Hiromasa; Okamoto, Tadashi; Iwasa, Yuzaburo; and Kimura, Kouichi, 4,688,193, Cl. 364-900.000.

asaki, Akira: *See—*
Ukai, Norio; and Iwasaki, Akira, 4,706,977, Cl. 280-91.000.

asaki, Akito: *See—*
Ando, Masao; and Iwasaki, Akito, 4,645,912, Cl. 219-541.000.

asaki, Dean H.; and Iliff, Michael D., to Marquest Medical Products, Inc. Syringe tonometric apparatus and method. 4,668,634, 5-26-87, Cl. 436-68.000.

asaki, Eiji: *See—*
Shiraishi, Daiichi; Iwasaki, Eiji; and Fukumoto, Ryoichi, 4,644,695, Cl. 49-352.000.

asaki, Hideki; Yokokawa, Tomohisa; and Kurosaki, Masanori, to Pioneer Electronic Corporation. Program identifier signal receiver. 4,686,707, 8-11-87, Cl. 455-200.000.

asaki, Hideki: *See—*
Yokogawa, Tomohisa; Kanda, Nobuo; and Iwasaki, Hideki, 4,656,364, Cl. 307-112.000.

asaki, Hikoji: *See—*
Shimoya, Shigeo; Iwasaki, Yutaka; Ishii, Tadashi; and Iwasaki, Hikoji, 4,692,741, Cl. 340-392.000.

asaki, Hirofumi, to Asahi Kasei Kogyo Kabushiki Kaisha. Formable nonwoven sheet. 4,701,365, 10-20-87, Cl. 428-171.000.

asaki, Hirofumi: *See—*
Shibasaki, Akio; and Iwasaki, Hirofumi, 4,678,703, Cl. 428-288.000.

asaki, Hiroshi; and Ito, Shintaro, to Kabushiki Kaisha Toshiba. Method for making a semiconductor integrated device including bipolar transistor and CMOS transistor. 4,637,125, 1-20-87, Cl. 29-571.000.

asaki, Hiroshi; and Ito, Shintaro, to Kabushiki Kaisha Toshiba. Method for manufacturing a semiconductor integrated device including bipolar and CMOS transistors. 4,694,562, 9-22-87, Cl. 437-57.000.

asaki, Hitoshi; Chiba, Shu, and Sawazaki, Norikazu, to Kabushiki Kaisha Toshiba. Magnetic resonance-type playback apparatus including a magnetic material having magnetic anisotropy. 4,635,152, -6-87, Cl. 360-110.000.

asaki, Kazuharu, to Research Development Corporation of Japan; and Iwasaki, Kazuharu. Process for manufacturing a magnetic recording medium. 4,671,971, 6-9-87, Cl. 427-128.000.

asaki, Kazuhiko; Tatezaki, Junichi; and Funabashi, Tsuneo, to Hitachi, Ltd. Decoding method and apparatus for cyclic codes. 4,677,623, -30-87, Cl. 371-40.000.

saki, Kazuhiko: *See—*
Funabashi, Tsuneo; Iwasaki, Kazuhiko; Yamaguchi, Noboru; Shimura, Takanori; and Tatezaki, Junichi, 4,674,037, Cl. 364-200.000.
Funabashi, Tsuneo; Iwasaki, Kazuhiko; and Nakamura, Hideo, 4,716,522, Cl. 364-200.000.

saki, Kazunori: *See—*
Miyaji, Kenichi; Toida, Shouji; Ito, Seiichi; Iwasaki, Kazunori, and Kishida, Masatoshi, 4,675,508, Cl. 219-437.000.

saki, Keiji; Iwashita, Yuji; and Okami, Taketoshi, to Ajinomoto Co., nc. Hemoglobin combined with a poly(alkylene oxide). 4,670,417 -2-87, Cl. 514-6.000.

saki, Kishiro; Era, Susumu; Yokokura, Hisao; Nakata, Tadao; and Mukoh, Akio, to Hitachi, Ltd. Ferroelectric liquid crystal cell with ubbed polyimide alignment layer. 4,634,228, 1-6-87, Cl. 350-341.000.

saki, Kishiro: *See—*
Era, Susumu; Yokokura, Hisao; Iwasaki, Kishiro; Nakata, Tadao; Kitamura, Teruo; and Mukoh, Akio, 4,653,866, Cl. 350-350.00S.

saki, Kiyoshi: *See—*
Takai, Kiyoshi; and Iwasaki, Kiyoshi, 4,692,113, Cl. 432-72.000.

saki, Kousei. Device for preventing drying of nib of cartridge type en. 4,643,605, 2-17-87, Cl. 401-243.000.

saki, Kouzou: *See—*
Yamamoto, Isamu; Noguchi, Yoshiaki; Iwasaki, Kouzou; and Arai, Kenichi, 4,657,704, Cl. 260-513.00B.

saki, Kyuhachiro: *See—*
Ameyama, Minoru; Isayama, Takuro; Yamazaki, Hiroshi; Matsumoto, Shuzo; Katano, Yasuo; and Iwasaki, Kyuhachiro, 4,673,955, Cl. 346-140.00R.
Yamamuro, Tetsu; and Iwasaki, Kyuhachiro, 4,700,203, Cl. 346-140.00R.

Iwasaki, Masahiko; and Katto, Masayuki, to Mitsubishi Denki Kabushiki Kaisha. Inverter control apparatus. 4,663,578, 5-5-87, Cl. 318-762.000.

Iwasaki, Masami: *See—*
Matsui, Kazumi; Otobe, Minoru; Takasue, Takashi; Iwasaki, Masami; and Oda, Masaki, 4,665,831, Cl. 104-165.000.
Sakurai, Hiroshi; and Iwasaki, Masami, 4,694,322, Cl. 357-74.000.

Iwasaki, Masayoshi: *See—*
Kawashima, Sadao; Mori, Yoshikazu; Iwasaki, Masayoshi; and Suzuki, Norio, 4,699,007, Cl. 73-622.000.

Iwasaki, Masayuki; Maeda, Minoru; and Fujikura, Sadao, to Fuji Photo Film Co., Ltd. Photopolymerizable composition. 4,657,942, 4-14-87, Cl. 522-16.000.

Iwasaki, Masayuki; Maeda, Minoru; and Shinozaki, Fumiaki, to Fuji Photo Film Co., Ltd. Photopolymerizable composition containing a novel combination of photopolymerizable initiators. 4,661,434, 4-28-87, Cl. 430-281.000.

Iwasaki, Mitsuhiro: *See—*
Mitsuya, Kinpei; and Iwasaki, Mitsuhiro, 4,644,980, Cl. 139-435.000.

Iwasaki, Osamu, to Hakuba Shashin Sagyo Kabushiki Kaisha. Tripod for camera. 4,648,698, 3-10-87, Cl. 354-293.000.

Iwasaki, Ryoichi: *See—*
Kashiwamura, Takayoshi; and Iwasaki, Ryoichi, 4,655,505, Cl. 297-284.000.

Iwasaki Sangyo Kabushiki Kaisha: *See—*
Iwasaki, Shoichi, 4,687,095, Cl. 206-234.000.

Iwasaki, Satoshi, to Pioneer Electronic Corporation. Gate circuit for central control of CATV system. 4,644,396, 2-17-87, Cl. 380-6.000.

Iwasaki, Shinichiro, to Aisin Seiki Kabushiki Kaisha. Multiple ring armature core for direct current motor. 4,712,034, 12-8-87, Cl. 310-217.000.

Iwasaki, Shoichi, to Iwasaki Sangyo Kabushiki Kaisha. Box provided with a lint remover and dust brush. 4,687,095, 8-18-87, Cl. 206-234.000.

Iwasaki, Shosuke; Abiko, Tetsuo; Hagiwara, Michiki; and Nanba, Keizo, to Sumitomo Precision Products Co., Ltd. Aluminum brazing alloy. 4,636,356, 1-13-87, Cl. 420-532.000.

Iwasaki, Shosuke: *See—*
Sugiyama, Yoshihiko; Nanba, Keizo; Hagiwara, Michiki; Aoki, Takeshi; Iwasaki, Shosuke; and Abiko, Tetsuo, 4,673,551, Cl. 420-535.000.

Iwasaki, Shozi: *See—*
Nakao, Kiyoshi; Husayasu, Kazuaki; and Iwasaki, Shozi, 4,646,451, Cl. 38-77.300.

Iwasaki, Tadayoshi; Ariga, Keiki; and Sato, Makoto, to Nippon Sanso Kabushiki Kaisha. Method and apparatus for determinating a vacuum degree within a flexible vacuum package. 4,709,578, 12-1-87, Cl. 73-49.300.

Iwasaki, Tadayoshi: *See—*
Kawasaki, Tamotsu; Iwasaki, Tadayoshi; Maeda, Takayuki; and Morita, Minoru, 4,668,551, Cl. 428-69.000.

Iwasaki, Takao: *See—*
Iizuka, Yo; Iwasaki, Takao; Katto, Takayuki; and Shiiki, Zenya, 4,645,826, Cl. 528-388.000.

Iwasaki, Takashi; and Mori, Keiji, to Fuji Photo Film Co., Ltd. Piezoelectric vibration measurement head. 4,644,215, 2-17-87, Cl. 310-367.000.

Iwasaki, Takashi; Tomita, Yasuo; and Hayashi, Tsunekazu, to Mitsuboshi Sangyo Co. Ltd. Method for manufacturing thick asphalt sheet. 4,690,839, 9-1-87, Cl. 427-366.000.

Iwasaki, Takayuki: *See—*
Ookubo, Mamoru; Iwasaki, Takayuki; and Mieda, Kenji, 4,642,871, Cl. 29-513.000.

Iwasaki, Tamotsu; Ikoma, Toshiaki; and Okumura, Tsugunori, to Furukawa Electric Co., Ltd.; Ikoma, Toshiaki; and Okumura, Tsugunori. Semiconductor laser. 4,648,095, 3-3-87, Cl. 372-44.000.

Iwasaki, Tetsuaki: *See—*
Ushiki, Hiroshi; and Iwasaki, Tetsuaki, 4,701,748, Cl. 340-365.00S.

Iwasaki, Tetsuji; and Kamihisa, Yasushi, to Kao Corporation. Biocidal fine powder, its manufacturing method and a suspension for agricultural use containing the above powder. 4,663,364, 5-5-87, Cl. 523-122.000.

Iwasaki, Tetsuji, to Kao Corporation. Biocide activator. 4,681,900, 7-21-87, Cl. 514-786.000.

Iwasaki, Tetsuji, to Kao Corporation. Concretion preventing agent for fertilizers. 4,714,490, 12-22-87, Cl. 71-27.000.

Iwasaki, Tetsuo: *See—*
Kawabe, Ryoichi; Iwasaki, Tetsuo; Kozuru, Hiroshi; Yoda, Masashi; Matsunaga, Masakazu; Takamori, Takesi; and Nakasima, Matao, 4,707,867, Cl. 4-313.000.

Iwasaki, Yasumasa: *See—*
Shibasaki, Sohei; Iwasaki, Yasumasa; Ono, Noriki; Arai, Koichi; Maruyama, Koji; and Shimanari, Tatsumi, 4,648,706, Cl. 355-43.000.
Shibasaki, Sohei; Iwasaki, Yasumasa; and Ono, Noriki, 4,687,318, Cl. 355-5.000.

Iwasaki, Yasuo. Projection cathode-ray tube having enhanced image brightness. 4,642,695, 2-10-87, Cl. 358-237.000.

Iwasaki, Yasutaka: *See—*
Manmoto, Shinzo; and Iwasaki, Yasutaka, 4,669,150, Cl. 17-46.000.

Iwasaki, Yoshihisa, to Maeda Industries, Ltd. Bicycle front derailleur. 4,674,995, 6-23-87, Cl. 474-80.000.

Iwasaki, Yoshiki: *See—*
Sugiyama, Hiroyuki; Komura, Makoto; Masuda, Isao; Nishikawa, Kazunori; and Iwasaki, Yoshiki, 4,667,318, Cl. 369-59.000.

Iwasaki, Yoshitaka; Mori, Kunio; and Tanabe, Yoshio, to Teraoka Seiko Co., Ltd. Electronic scale printer. 4,700,791, 10-20-87, Cl. 177-2.000.
Iwasaki, You. *See—*
  Hayakawa, Masatoshi; Aso, Koichi; Ochiai, Yoshitaka; Matsuda, Hideki; Hayashi, Kazuhiko; Ishikawa, Wataru; and Iwasaki, You, 4,707,417, Cl. 428-630.000.
  Hayashi, Kazuhiko; Ochiai, Yoshitaka; Hayakawa, Masatoshi; Matsuda, Hideki; Ishikawa, Wataru; Iwasaki, You; and Aso, Koichi, 4,640,871, Cl. 428-611.000.
Iwasaki, Yukio: *See—*
  Miura, Kazuhiko; Hattori, Tadashi; Iwasaki, Yukio; Kohama, Tokio; and Kanehara, Kenji, 4,677,850, Cl. 73-204.000.
  Miura, Kazuhiko; Hattori, Tadashi; Iwasaki, Yukio; Kohama, Tokio; and Kanehara, Kenji, 4,682,496, Cl. 73-204.000.
  Miura, Kazuhiko; Hattori, Tadashi; Iwasaki, Yukio; Kohama, Tokio; and Kanehara, Kenji, 4,693,116, Cl. 73-204.000.
  Ohta, Minoru; Miura, Kazuhiko; Onoda, Michitoshi; Iwasaki, Yukio; and Hattori, Tadashi, 4,705,713, Cl. 428-209.000.
Iwasaki, Yutaka: *See—*
  Shimoya, Shigeo; Iwasaki, Yutaka; Isnii, Tadashi; and Iwasaki, Hikoji, 4,692,741, Cl. 340-392.000.
Iwasawa, Katsumasa: *See—*
  Mochizuki, Takeshi; Iwasawa, Katsumasa; Shiraishi, Ikuya; and Terafuji, Kazuki, 4,714,635, Cl. 427-421.000.
Iwasawa, Minoru: *See—*
  Joyashiki, Hisashi; Iwasawa, Minoru; Oohigashi, Masakazu; and Terai, Masao, 4,710,995, Cl. 15-22.00R.
Iwasawa, Shigeru; and Ishiwaka, Takumi, to Bridgestore Corporation. Roll for use in business machine. 4,707,408, 11-17-87, Cl. 428-379.000.
Iwasawa, Susumu, to Sony Corporation. Cassette tape player having sealing means. 4,649,453, 3-10-87, Cl. 360-137.000.
Iwasawa, Toshiyuki: *See—*
  Miura, Masayoshi; and Iwasawa, Toshiyuki, 4,684,957, Cl. 346-1.100.
Iwase, Hiroshi: *See—*
  Okuda, Hiroko; and Iwase, Hiroshi, 4,685,370, Cl. 84-1.030.
Iwase, Isao: *See—*
  Kubota, Mitsuru; and Iwase, Isao, 4,652,729, Cl. 235-384.000.
Iwase, Ken: *See—*
  Ueda, Toshihiro; Imanishi, Masamichi; Iyama, Kazuo; Fukuhara, Akio; and Iwase, Ken, 4,634,003, Cl. 206-221.000.
Iwase, Kenichi: *See—*
  Hyodo, Hiroshi; Yamada, Naoki; Iwase, Kenichi; and Kishimoto, Shinichi, 4,697,925, Cl. 356-339.000.
Iwase, Masanori: *See—*
  Nakamura, Hajime; Iwase, Masanori; Ichise, Eiji; Moriya, Takaharu; and Maruhashi, Shigeaki, 4,657,641, Cl. 204-1.00T.
  Nakamura, Hajime; Iwase, Masanori; Ichise, Eiji; Moriya, Takaharu; and Maruhashi, Shigeaki, 4,708,783, Cl. 204-423.000.
Iwase, Nobuo; Anzai, Kazuo; Shinozaki, Kazuo; Tsuge, Akihiko; Saitoh, Kazutaka; Iyogi, Kiyoshi; Sato, Noboru; and Kasori, Mitsuo, to Kabushiki Kaisha Toshiba. Circuit substrate having high thermal conductivity. 4,659,611, 4-21-87, Cl. 428-209.000.
Iwase Prince Kabushiki Kaisha: *See—*
  Iwase, Yukio, 4,674,421, Cl. 112-121.120.
Iwase, Seiichiro: *See—*
  Shirota, Norihisa; Yamazaki, Takao; and Iwase, Seiichiro, 4,677,499, Cl. 358-339.000.
  Yamazaki, Takao; and Iwase, Seiichiro, 4,706,211, Cl. 364-760.000.
Iwase, Sumio, to Sony Corporation. Cordless telephone. 4,694,485, 9-15-87, Cl. 379-62.000.
Iwase, Taira; Ariizumi, Shoji; and Masuoka, Fujio, to Kabushiki Kaisha Toshiba. Read only semiconductor memory device with polysilicon drain extensions. 4,649,412, 3-10-87, Cl. 357-41.000.
Iwase, Takahiro. *See—*
  Takeshita, Hajime; Iwase, Takahiro; Masuda, Naofumi; Sibata, Takuo; Mochizuki, Hiroyuki; Kobayashi, Nobuo; Kawakami, Seiho; and Kuroiwa, Yosio, 4,693,813, Cl. 409-244.000.
Iwase, Takatoshi; and Nakagawa, Akira, to Nippondenso Co., Ltd. Apparatus for assembling heat exchanger core. 4,637,132, 1-20-87, Cl. 29-726.000.
Iwase, Tetsuo: *See—*
  Masuzawa, Sigeaki; Shibata, Shinya; Miyazaki, Hiroshi; and Iwase, Tetsuo, 4,716,591, Cl. 381-51.000.
Iwase, Yoshinobu; and Morisawa, Kunio, to Aisin Seiki Kabushiki Kaisha; and Toyota Jidosha Kabushiki Kaisha. Automatic transmission structure. 4,651,577, 3-24-87, Cl. 74-12.000.
Iwase, Yoshio: *See—*
  Okada, Hideo; Okabe, Sigeru; Iwase, Yoshio; Takeuchi, Masato; and Tamura, Kohki, 4,699,853, Cl. 429-37.000.
Iwase, Yukio, to Iwase Prince Kabushiki Kaisha. Sewing machine. 4,674,421, 6-23-87, Cl. 112-121.120.
Iwashima, Toshiro, to U.S. Philips Corporation. Compact disc player for playing a sequence of discs and selecting a sequence of stored programs in each disc to be played. 4,667,314, 5-19-87, Cl. 369-32.000.
Iwashita, Kanau: *See—*
  Miyata, Takahide; Iwashita, Kanau; Taniuchi, Kazuman; Yamamoto, Hitoshi; and Nakamichi, Katsuhiro, 4,672,925, Cl. 123-65.0PE.
Iwashita, Katsuhiro: *See—*
  Tateishi, Hideki; Shimizu, Tamotsu; Aiuchi, Susumu; Iwashita, Katsuhiro; and Nakamura, Hiroshi, 4,675,096, Cl. 204-298.000.
Iwashita, Kiyoji: *See—*
  Kurosawa, Yukio; and Iwashita, Kiyoji, 4,695,689, Cl. 200-144.00B.
  Kurosawa, Yukio; Iwashita, Kiyoji; Matumoto, Morihisa; Kurasawa, Takanao; and Endo, Syunkichi, 4,704,506, Cl. 200-144.00B.
Iwashita, Masao; and Tenma, Tsutomu, to Nippon Electric Co. Ltd. Data processing machine suitable for high-speed processing. 4,674,034, 6-16-87, Cl. 364-200.000.
Iwashita, Shigeo: *See—*
  Eto, Kunihiko; Iwashita, Shigeo; and Matsumoto, Tsutomu, 4,637,483, Cl. 180-142.000.
  Ito, Seitoku; Iwashita, Shigeo; Kamiya, Sigeru; Noguchi, Hiroshi; and Mori, Nobuhisa, 4,633,706, Cl. 73-28.000.
  Nakamura, Keiichi; Eto, Kunihiko; Suzuki, Mikio; Hayashi, Masaaki; and Iwashita, Shigeo, 4,653,601, Cl. 180-79.100.
  Suzuki, Mikio; Iwashita, Shigeo; and Hayashi, Masaaki, 4,685,528, Cl. 180-79.100.
Iwashita, Tomonori; Shinoda, Nobuhiko; and Yamada, Akira, to Canon Kabushiki Kaisha. Photographic information input device for camera. 4,699,492, 10-13-87, Cl. 354-289.100.
Iwashita, Tooru: *See—*
  Asahi, Tetsuya; Kaneko, Hiroshi; Sakai, Yasushi; Kiyohara, Akio; and Iwashita, Tooru, 4,680,349, Cl. 526-62.000.
Iwashita, Yoshiharu: *See—*
  Murakawa, Shigemi; Taguchi, Seiji; Nomura, Makoto; Takabe, Ryoji; Iwashita, Yoshiharu; and Ishii, Masahiro, 4,697,453, Cl. 73-290.00R.
Iwashita, Yoshihiro; and Okumura, Takeshi, to Toyota Jidosha Kabushiki Kaisha. Cylinder head variable swirl siamese type intake port structure including biasing means diverting mixture flow towards diverting means which bypasses straight intake passage control valve. 4,671,233, 6-9-87, Cl. 123-308.000.
Iwashita, Yoshihiro: *See—*
  Kanda, Mutsumi; Okumura, Takeshi; and Iwashita, Yoshihiro, 4,700,665, Cl. 123-41.82R.
  Okumura, Takeshi; and Iwashita, Yoshihiro, 4,669,434, Cl. 123-308.000.
Iwashita, Yoshiyuki, to Kabushiki Kaisha Machida Seisakusho. Guide tube assembly for industrial endoscope. 4,655,257, 4-7-87, Cl. 138-120.000.
Iwashita, Yuji: *See—*
  Iwasaki, Keiji; Iwashita, Yuji; and Okami, Taketoshi, 4,670,417, Cl. 514-6.000.
Iwashita, Yukihiro; and Ueno, Kotaro, to Seiko Epson Corporation. Liquid crystal display device having electrodes shaped to compensate for positioning error. 4,660,935, 4-28-87, Cl. 350-336.000.
Iwashita, Yukihiro; and Okumura, Hideaki, to Seiko Epson Corporation. Light-passive display device and method of manufacturing same. 4,715,686, 12-29-87, Cl. 350-339.00R.
Iwashita, Yukihiro: *See—*
  Hoshikawa, Jun; and Iwashita, Yukihiro, 4,640,583, Cl. 350-343.000.
Iwaskai, Kishiro: *See—*
  Isogai, Masato; Hattori, Shintaroo; Iwaskai, Kishiro; Mukoh, Ak Umeda, Takao; and Nagae, Yoshiharu, 4,634,226, Cl. 350-332.000.
Iwaskai, Masayoshi: *See—*
  Tojyo, Shigeki; Uesaka, Tatsuo; Kawate, Yoshio; Iwaskai, Masayoshi; Horiuchi, Takefumi; Moritoki, Masato; Kanda, Takeshi; Fujikawa, Takao; and Kofune, Shigeo, 4,666,314, Cl. 374-131.000.
Iwata Air Compressor Mfg. Co., Ltd.: *See—*
  Mochizuki, Takeshi; Iwasawa, Katsumasa; Shiraishi, Ikuya; and Terafuji, Kazuki, 4,714,635, Cl. 427-421.000.
Iwata, Akihiko; Katou, Yoshiaki; and Mizuno, Masanori, to Mitsubishi Denki Kabushiki Kaisha. Arc welding power source with response delay compensating control. 4,665,299, 5-12-87, Cl. 219-130.210.
Iwata, Akira; Tamamaki, Masahiro; Tanaka, Genji; Taniguchi, Masaaki; and Tsuda, Kouji, to Japan Abrasive Co., Ltd. Method and apparatus for cooling molten oxides. 4,671,917, 6-9-87, Cl. 264-332.000.
Iwata, Akira: *See—*
  Horiba, Isao; Iwata, Akira; Suzumura, Nobuo; and Matsuo, Hiroshi, 4,672,651, Cl. 378-62.000.
Iwata, Atushi: *See—*
  Uchimura, Kuniharu; Kobayashi, Tsutomu; Iwata, Atushi; Hayashi, Toshio; and Kumura, Tadakatsu, 4,704,600, Cl. 34 347.0AD.
Iwata Electric Co., Ltd.: *See—*
  Iwata, Keisuke, 4,654,883, Cl. 455-89.000.
  Iwata, Keisuke, 4,656,458, Cl. 340-65.000.
  Iwata, Keisuke, 4,691,313, Cl. 370-30.000.
Iwata Electric Works Co., Ltd.: *See—*
  Nakamoto, Takayuki, 4,640,274, Cl. 128-321.000.
Iwata, Fumio; Harada, Katsumasa; and Sugise, Ryoji, to UBE Industries, Ltd. Process for producing heterocyclic compound having nitromethylene group as the side chain group. 4,665,172, 5-12-87, Cl. 540-544.000.
Iwata, Hideo; Kitagawa, Yoshiaki; Koshijima, Jiro; and Tachibana, Tetsuya, to Matsushita Electric Works, Ltd. Heat exchange ma 4,646,815, 3-3-87, Cl. 165-56.000.
Iwata, Hideyuki: *See—*
  Chikamori, Sunao; and Iwata, Hideyuki, 4,700,933, Cl. 267-140.1
Iwata, Hiromitsu: *See—*
  Tanaka, Hiroshi; Kakizaki, Yukio; Iwata, Hiromitsu; and N Tsuyoshi, 4,655,584, Cl. 355-53.000.
  Tanaka, Hiroshi; Iwata, Hiromitsu; and Kakizaki, Yukio, 4,716,2 Cl. 250-571.000.

Iwata, Hiroo: *See—*
  Goldberg, Eugene P.; Longo, William E.; and Iwata, Hiroo, 4,671,954, Cl. 424-450.000.

Iwata, Hiroshi; Kuroyanagi, Masatoshi; Suzuki, Masahiko; Moriguchi, Koichi; Horiuchi, Yasuhiro; and Nakamura, Kanehito, to Nippondenso Co., Ltd. Volume controlling device for variable volume pump. 4,710,106, 12-1-87, Cl. 417-213.000.

Iwata, Hiroshi: *See—*
  Fujiwara, Haruyoshi; Makino, Tetsuo; and Iwata, Hiroshi, 4,708,773, Cl. 162-300.000.
  Kuroyanagi, Masatoshi; Suzuki, Masahiko; Moriguchi, Kohichi; Matsui, Kazuma; and Iwata, Hiroshi, 4,652,215, Cl. 417-219.000.
  Sakaida, Atsuo; Kawaura, Masafumi; Chikaoka, Yasuji; Iwata, Hiroshi; and Asaño, Kiyomitsu, 4,634,301, Cl. 400-124.000.
  Yoshino, Tsunemi; Ishikawa, Katsuji; and Iwata, Hiroshi, 4,695,144, Cl. 354-195.110.

Iwata, Hitoshi: *See—*
  Minami, Katsuhiro; Iwata, Hitoshi; and Kinoshita, Kenichi, 4,698,552, Cl. 315-82.000.
  Sugisawa, Ko; Sekiguchi, Kazuya; Taguchi, Masao; Nakatani, Masayuki; and Iwata, Hitoshi, 4,690,699, Cl. 55-267.000.

Iwata, Jun, to NFC Corporation. Data processor executing microprograms according to a plurality of system architectures. 4,691,278, 9-1-87, Cl. 364-200.000.

Iwata, Kazuhiro: *See—*
  Kobayashi, Waichi; Akegi, Seiji; and Iwata, Kazuhiro, 4,701,222, Cl. 106-288.00B.

Iwata, Kazuo; and Koike, Shoji, to Canon Kabushiki Kaisha. Aqueous jet-ink printing on textile fabric pre-treated with polymeric acceptor. 4,702,742, 10-27-87, Cl. 8-495.000.

Iwata, Kazuo: *See—*
  Koike, Shoji; and Iwata, Kazuo, 4,689,078, Cl. 106-22.000.
  Mouri, Hidemasa; Tobita, Michiaki; Eto, Naonobu; Kouno, Shunzo; Ohkura, Kosuke; Toganoh, Shigeo; Arai, Ryuichi; Sakaki, Mamoru; Iwata, Kazuo; and Shibasaki, Hiromi, 4,642,247, Cl. 427-214.000.

Iwata, Kazuyoshi; and Fujii, Kazuo, to Toyo Machinery Co., Ltd. Small-sized drill grinding machine. 4,648,209, 3-10-87, Cl. 51-90.000.

Iwata, Keisuke, to Iwata Electric Co., Ltd. Radio transmitter and receiver device having a headset with speaker and microphone. 4,654,883, 3-31-87, Cl. 455-89.000.

Iwata, Keisuke, to Iwata Electric Co., Ltd. Motion sensor. 4,656,458, 4-7-87, Cl. 340-65.000.

Iwata, Keisuke, to Iwata Electric Co., Ltd. Wireless talking apparatus. 4,691,313, 9-1-87, Cl. 370-30.000.

Iwata, Kenneth K.; Fryling, Charlotte M.; and Todaro, George J., to United States of America, Health and Human Services. Substantially purified tumor growth inhibitory factor. 4,708,948, 11-24-87, Cl. 514-2.000.

Iwata, Kenzi: *See—*
  Miyashita, Yoshinobu; Hamanaka, Tadashi; and Iwata, Kenzi, 4,714,675, Cl. 435-32.000.
  Sakata, Yoshitsugu; Hamanaka, Tadashi; Iwata, Kenzi; and Nakaue, Misato, 4,665,038, Cl. 436-97.000.

Iwata, Kotei: *See—*
  Miyazaki, Yoshihiko; Goto, Taizan; Komiyama, Yoshizo; and Iwata, Kotei, 4,641,603, Cl. 118-724.000.

Iwata, Kouichi; and Yamashita, Yukinori, to Sumitomo Electric Industries, Ltd. Method for producing carbon fiber reinforced carbon material. 4,659,444, 4-21-87, Cl. 204-180.900.

Iwata, Kozo: *See—*
  Ikeda, Kouhei; Iwata, Kozo; and Masaki, Hisayoshi, 4,702,146, Cl. 89-193.000.

Iwata, Masatoshi: *See—*
  Honda, Chika; Suzuki, Akio; Machida, Katsutoshi; and Iwata, Masatoshi, 4,639,417, Cl. 430-567.000.
  Suzuki, Akio; Koitabashi, Takeo; Iwata, Masatoshi; Yamaguchi, Hisashi; and Matsuzaka, Syoji, 4,680,252, Cl. 430-364.000.

Iwata, Masayosi: *See—*
  Hayashi, Kazuhiko; Iwata, Masayosi; Tada, Mikio; and Mizuno, Hirotoshi, 4,659,882, Cl. 200-16.00R.

Iwata, Michiyoshi: *See—*
  Matsumoto, Kazuyuki; Hashimoto, Mashataka; and Iwata, Michiyoshi, 4,690,010, Cl. 74-469.000.

Iwata, Mikio: *See—*
  Ura, Shigeru; Iwata, Mikio; Tanaka, Haruo; and Shiono, Hiroyuk., 4,657,821, Cl. 428-510.000.

Iwata, Minoru; and Matake, Kozo, to Ebara Corporation. Submersible motor. 4,636,672, 1-13-87, Cl. 310-87.000.

Iwata, Minoru; Takada, Shigetaka; and Takeuchi, Hitoshi, to Aisan Kogyo Kabushiki Kaisha; and Toyota Jidosha Kabushiki Kaisha. Electromagnetic fuel injection valve for an internal combustion engine having a plurality of intake valves. 4,657,189, 4-14-87, Cl. 239-585.000.

Iwata, Minoru; and Kuji, Nobuyuki, to Ebara Corporation. Submersible electric motor having floating bearings. 4,672,249, 6-9-87, Cl. 310-90.000.

Iwata, Naotaka: *See—*
  Matsumoto, Yoshishige; and Iwata, Naotaka, 4,689,646, Cl. 357-22.000.

Iwata, Nobuyoshi: *See—*
  Kaneko, Masakatsu; Kimura, Misako; Murofushi, Yoshinobu; Yamazaki, Mitsuo; Iwata, Nobuyoshi; and Nakagawa, Fumio, 4,634,706, Cl. 514-262.000.
  Tomita, Kuniyuki; Shimoji, Yasuo; Kumakura, Seiji; Koike, Hiroyuki; Iwata, Nobuyoshi; and Morisawa, Yasuhiro, 4,716,162, Cl. 514-234.000.

Iwata, Norio; Nakamura, Masao; and Takusagawa, Takashi, to Bridgestone Tire Company Limited. Heavy-duty low-section pneumatic radial tire. 4,702,293, 10-27-87, Cl. 152-531.000.

Iwata, Satoshi: *See—*
  Toida, Akikazu; Iwata, Satoshi; Takahashi, Fumio; and Mimura, Takanobu, 4,707,703, Cl. 346-1.100.

Iwata, Shigemi, to Mitsubishi Denki Kabushiki Kaisha. Elevator control apparatus. 4,691,807, 9-8-87, Cl. 187-117.000.

Iwata, Shigemi, to Mitsubishi Denki Kabushiki Kaisha. Apparatus for controlling an elevator. 4,716,517, 12-29-87, Cl. 364-148.000.

Iwata, Shozo: *See—*
  Fukutake, Heiji; and Iwata, Shozo, 4,633,990, Cl. 192-70.270.

Iwata, Shuji: *See—*
  Fukushima, Nobuo; and Iwata, Shuji, 4,680,629, Cl. 358-147.000.

Iwata, Takahiro, to Honda Giken Kogyo Kabushiki Kaisha. Intake air quantity control method for internal combustion engines at deceleration. 4,700,674, 10-20-87, Cl. 123-327.000.

Iwata, Takahiro: *See—*
  Kiuchi, Takeo; and Iwata, Takahiro, 4,676,211, Cl. 123-339.000.
  Otobe, Yutaka; and Iwata, Takahiro, 4,649,878, Cl. 123-339.000.
  Yasuoka, Akimasa; Iwata, Takahiro; and Kiuchi, Takeo, 4,633,839, Cl. 123-488.000.
  Yasuoka, Akimasa; Iwata, Takahiro; and Kiuchi, Takeo, 4,637,362, Cl. 123-478.000.

Iwata, Takashi; Yokota, Seiji; Inoue, Yoshiaki; and Koizumi, Tadashi, to Neturen Co., Ltd. Method of and apparatus for igniting a high-frequency torch to create a high-temperature plasma of high purity. 4,665,296, 5-12-87, Cl. 219-121.0PR.

Iwata, Tetsuya, to Alps Electric Co., Ltd. Magnetic head. 4,639,809, 1-27-87, Cl. 360-121.000.

Iwata, Toshio; Komurasaki, Satoshi; and Ueda, Atsushi, to Mitsubishi Denki Kabushiki Kaisha. Engine ignition timing control apparatus. 4,635,604, 1-13-87, Cl. 123-425.000.

Iwata, Toshio; and Ueda, Atsushi, to Mitsubishi Denki Kabushiki Kaisha. Knock deriving apparatus for internal combustion engines. 4,637,245, 1-20-87, Cl. 73-35.000.

Iwata, Yasuhiro: *See—*
  Uchiyama, Jun; and Iwata, Yasuhiro, 4,662,454, Cl. 169-15.000.

Iwata, Yasuji: *See—*
  Sasaki, Noboru; Iwata, Yasuji; and Mukai, Teruo, 4,713,956, Cl. 72-137.000.

Iwata, Yasunari; and Usui, Hirokazu, to Toyota Jidosha Kabushiki Kaisha. Abnormality determination system for revolution speed sensor. 4,700,563, 10-20-87, Cl. 73-118.100.

Iwatani Industrial Gases Corp.: *See—*
  Okazaki, Hiroshi; Soeda, Mahito; Wada, Hiromu; and Onishi, Kiyotaka, 4,656,279, Cl. 546-150.000.

Iwatani, Kenji: *See—*
  Abe, Hiroshi; Shichiri, Motoaki; Kawamori, Ryuzo; Ichoh, Tasuku; Iwatani, Kenji; Higuchi, Mamoru; Takagi, Kiyotaka; Okamoto, Norihiko; and Okudaira, Toshiyuki, 4,636,144, Cl. 417-63.000.

Iwatani Sangyo Kabushiki Kaisha: *See—*
  Suzuki, Hiroshi, 4,665,945, Cl. 137-613.000.

Iwatani, Shiro, to Mitsubishi Denki Kabushiki Kaisha. Buried PN junction isolation regions for high power semiconductor devices. 4,641,172, 2-3-87, Cl. 357-48.000.

Iwatani, Shiro: *See—*
  Komurasaki, Keiichi; Iwatani, Shiro; and Nishimura, Shinji, 4,680,529, Cl. 322-28.000.

Iwatsu Electric Co., Ltd.: *See—*
  Enda, Toyoaki, 4,660,055, Cl. 346-139.00R.
  Itoh, Yasuhiro, 4,667,166, Cl. 330-260.000.
  Kai, Masanori; Hisabayashi, Satoshi; Homma, Seiichi; and Igarashi, Yousuke, 4,653,008, Cl. 364-471.000.
  Kawamura, Masataka; and Kamigaki, Masaharu, 4,658,397, Cl. 370-58.000.
  Kobayashi, Kensuke; and Tazoh, Yasuo, 4,638,185, Cl. 307-352.000.
  Kokaji, Norio, 4,654,289, Cl. 430-39.000.
  Shimatani, Toshimichi; and Kawata, Yoshihiro, 4,694,470, Cl. 375-37.000.
  Suke, Shouichi, 4,636,941, Cl. 364-200.000.
  Suzuki, Tatsumi, 4,651,065, Cl. 315-399.000.
  Yokoyama, Yasuyuki; Nakamura, Kiyoaki; Goi, Hiroshi; and Fujioka, Koichiro, 4,681,313, Cl. 271-273.000.

Iwatsuji, Ichirou: *See—*
  Hara, Zenichirou; and Iwatsuji, Ichirou, 4,707,638, Cl. 315-169.300.

Iwatsuka, Nobuyoshi: *See—*
  Suzuki, Masanori; Ichikawa, Yoshiaki; Iwatsuka, Nobuyoshi; and Ozaki, Norihiko, 4,662,814, Cl. 414-730.000.

Iwatsuki, Kunihiro, to Toyota Jidosha Kabushiki Kaisha. Control system and method for an automatic transmission providing smooth engagement action. 4,685,356, 8-11-87, Cl. 74-866.000.

Iwatsuki, Kunihiro: *See—*
  Hayashi, Kazuhiko; and Iwatsuki, Kunihiro, 4,688,450, Cl. 74-866.000.
  Shindo, Yoshio; and Iwatsuki, Kunihiro, 4,674,364, Cl. 74-867.000.
  Taniguchi, Hiroji; Iwatsuki, Kunihiro; and Shindou, Yoshio, 4,690,017, Cl. 74-866.000.

Iwatsuki, Tatsuya: *See—*
  Yamada, Yoshihiro; Kawamoto, Mutsumi; Iwatsuki, Tatsuya; and Kuramochi, Koujiro, 4,646,890, Cl. 192-30.00V.

- Iwaya Corporation: *See—*
  - Koguchi, Noriyuki, 4,636,177, Cl. 446-236.000.
  - Saigo, Hiroshi; and Suzuki, Takashi, 4,699,603, Cl. 446-304.000.
- Iwaya, Toshio: *See—*
  - Tanaka, Kanou; Konishi, Motofumi; Ando, Yoshio; Iwaya, Toshio; Kotera, Masahide; Hashimoto, Norio; Sugita, Yasutoshi; Sano, Yoshitaka; and Ono, Satoshi, 4,658,299, Cl. 358-256.000.
- Iwayama, Kenzo: *See—*
  - Yoshitomi, Yasunari; Kuroki, Katsuro; and Iwayama, Kenzo, 4,692,193, Cl. 148-111.000.
- IWC International Watch Co. AG: *See—*
  - Klaus, Kurt, 4,674,889, Cl. 368-28.000.
- IWK Regler und Kompensatoren GmbH: *See—*
  - Holzhausen, Wieland; and Albecker, Kurt, 4,659,117, Cl. 285-49.000.
- Iwo Cilicia S.A.C.I.F.I.A.: *See—*
  - Telecemian, Alberto, 4,663,865, Cl. 36-114.000.
- IXI Laboratories, Inc.: *See—*
  - Johnson, Ronald R.; and Melville, James A., 4,667,258, Cl. 360-99.000.
- Iya, Sridhar K., to Union Carbide Corporation. Zone heating for fluidized bed silane pyrolysis. 4,684,513, 8-4-87, Cl. 423-349.000.
- Iyama, Kazuo: *See—*
  - Ueda, Toshihiro; Imanishi, Masamichi; Iyama, Kazuo; Fukuhara, Akio; and Iwase, Ken, 4,634,003, Cl. 206-221.000.
- Iyengar, Vijay S.: *See—*
  - Barzilai, Zeev; Iyengar, Vijay S.; and Silberman, Gabriel M., 4,698,830, Cl. 377-19.000.
- Iyer, Raja, to Acme Resin Corporation. Cold-setting compositions for foundry sand cores and molds. 4,644,022, 2-17-87, Cl. 523-144.000.
- Iyer, Raja; Shah, Rasik C.; and Laitar, Robert A., to Acme Resin Corporation. Refractory binders. 4,657,950, 4-14-87, Cl. 523-145.000.
- Iyer, Raja; and Shah, Rasik C., to Acme Resin Corporation. Phenolic resin binders for foundry and refractory uses. 4,668,759, 5-26-87, Cl. 528-139.000.
- Iyer, Srinivasa L., to Stress Steel Co., Inc. Method for making a prestressed composite structure and structure made thereby. 4,709,456, 12-1-87, Cl. 29-155.00R.
- Iyer, Subramanian S., to International Business Machines Corporation. Gate electrode sidewall isolation spacer for field effect transistors. 4,638,347, 1-20-87, Cl. 357-54.000.
- Iyer, Venkatraman; and Lee, Gil S., to Advanced Micro Devices, Inc. Linear feedback shift register for circuit design technology validation. 4,713,605, 12-15-87, Cl. 324-73.00R.
- Iyer, Venkatraman: *See—*
  - Joshi, Sunil P.; and Iyer, Venkatraman, 4,712,215, Cl. 371-37.000.
- Iyoda, Motomi, to Toyota Jidosha Kabushiki Kaisha. Sensor for detecting an amount of rain. 4,639,831, 1-27-87, Cl. 361-286.000.
- Iyoda, Motomi, to Toyota Jidosha Kabushiki Kaisha. Apparatus and a method for controlling a windshield wiper. 4,689,536, 8-25-87, Cl. 318-483.000.
- Iyoda, Motomi, to Toyota Jidosha Kabushiki Kaisha. Apparatus and a method for controlling wiper. 4,710,878, 12-1-87, Cl. 364-424.000.
- Iyoda, Syozo: *See—*
  - Ubukata, Susumu; Mizutani, Yasukazu; and Iyoda, Syozo, 4,672,353, Cl. 337-368.000.
- Iyogi, Kiyoshi: *See—*
  - Iwase, Nobuo; Anzai, Kazuo; Shinozaki, Kazuo; Tsuge, Akihiko; Saitoh, Kazutaka; Iyogi, Kiyoshi; Sato, Noboru; and Kasori, Mitsuo, 4,659,611, Cl. 428-209.000.
- Izard, Bernell. Seismic vibration apparatus. 4,703,463, 10-27-87, Cl. 367-147.000.
- Izasa, Takao: *See—*
  - Oikawa, Tatuo; Izasa, Takao; and Okabe, Kazuo, 4,699,845, Cl. 428-480.000.
- Izawa, Akihiro: *See—*
  - Igashira, Toshihiko; Sakakibara, Yasuyuki; Abe, Seiko; Takigawa, Masahiro; and Izawa, Akihiro, 4,635,849, Cl. 239-102.200.
- Izawa, Hideo: *See—*
  - Kishine, Toshiaki; Izawa, Hideo; and Ohba, Masaru, 4,690,051, Cl. 101-211.000.
  - Kishine, Toshiaki; Izawa, Hideo; and Ohba, Masaru, 4,706,566, Cl. 101-426.000.
- Izawa, Hisao: *See—*
  - Hazama, Junji; Kato, Kinya; Tanimoto, Akikazu; and Izawa, Hisao, 4,636,626, Cl. 250-201.000.
  - Kodama, Kenichi; Tanimoto, Akikazu; Izawa, Hisao; Hamashima, Yoichi; and Hazama, Junji, 4,685,805, Cl. 356-373.000.
- Izawa, Kiyosato: *See—*
  - Miyamori, Nobuyuki; Tomofuji, Yoshiaki; Izawa, Kiyosato; and Tsuchida, Youichi, 4,711,977, Cl. 178-18.000.
- Izawa, Susuma: *See—*
  - Akiyama, Hiroyuki; Izawa, Susumu; and Kuwabara, Hideki, 4,692,507, Cl. 528-481.000.
  - Akiyama, Hiroyuki; Izawa, Susumu; Okabe, Shigeru; and Yamaguchi, Toru, 4,716,021, Cl. 422-135.000.
- Izawa, Takaharu: *See—*
  - Shiraki, Kenhachi; Kikkawa, Shinichi; Izawa, Takaharu; Miyazaki, Yoshifumi; Nonoue, Torahiko; and Moriki, Etsuzo, 4,645,328, Cl. 355-8.000.
- Izon Industries Inc. Unit #11: *See—*
  - Sheffield, James S.; and Van Halteren, Jacob, 4,653,997, Cl. 425-556.000.
- Izotova, Lara S.: *See—*
  - Debabov, Vladimir G.; Tsygankov, Jury D.; Chistoserdov, Andrei J.; Sverdlov, Evgeny D.; Izotova, Lara S.; Kostrov, Sergei V.; Sterkin, Viktor E.; Kuznetsov, Vladimir P.; Belyaev, Sergei V.; Monastyrskaya, Galina S.; Salomatina, Irina S.; Dolganov, Grigory M.; Arsenian, Sergei G.; Tsarev, Sergei A.; Kozlov, Jury I.; Strongin, Alexandr Y.; Ogarkov, Vsevolod I.; and Ovchinnikov, Jury A., 4,680,260, Cl. 435-68.000.
- Izraelev, Valentin; and Scherlizin, Dimitri D., to Ampex Corporation. Latch for head positioning actuator for disc files. 4,654,735, 3-31-87, Cl. 360-104.000.
- Izu, Masatsugu; Cannella, Vincent D.; and Ovshinsky, Stanford R., to Energy Conversion Devices, Inc. Method of making a photovoltaic panel. 4,677,738, 7-7-87, Cl. 29-572.000.
- Izu, Masatsugu: *See—*
  - Ovshinsky, Stanford R.; and Izu, Masatsugu, 4,689,645, Cl. 357-2.000.
- Izuchi, Shingo; Tamura, Keiichi; and Mori, Shinji, to Kabushiki Kaisha Toka-rika-denki-seisakusho. Webbing lock apparatus. 4,667,894, 5-26-87, Cl. 242-107.40A.
- Izuhara, Katsuhiro: *See—*
  - Kobayashi, Hisamine; and Izuhara, Katsuhiro, 4,638,600, Cl. 51-164.200.
  - Kobayashi, Hisamine; and Izuhara, Katsuhiro, 4,664,431, Cl. 292-260.000.
- Izuhara, Seiji: *See—*
  - Kitamori, Nobuyuki; Maeno, Masaya; and Izuhara, Seiji, 4,702,919, Cl. 424-480.000.
- Izui, Yoshio: *See—*
  - Umeda, Tatsutoshi; Tani, Yoshio; Kaai, Takeshi; Nakano, Keiichi; and Izui, Yoshio, 4,633,824, Cl. 123-41.650.
  - Umeda, Tatsutoshi; Tani, Yoshio; Kaai, Takeshi; Nakano, Keiichi; and Izui, Yoshio, 4,686,946, Cl. 123-90.410.
- Izukawa, Kazuhiro; and Okumura, Ichiro, to Canon Kabushiki Kaisha. Optical system for making an annular beam. 4,657,360, 4-14-87, Cl. 350-620.000.
- Izukawa, Kazuhiro, to Canon Kabushiki Kaisha. Drive circuit for a vibration wave motor. 4,658,172, 4-14-87, Cl. 310-316.000.
- Izukawa, Kazuhiro; Tsukimoto, Takayuki; and Okumura, Ichiro, to Canon Kabushiki Kaisha. Vibration wave motor. 4,678,956, 7-7-87, Cl. 310-323.000.
- Izukawa, Kazuhiro; and Ishizuka, Kho, to Canon Kabushiki Kaisha. Driving circuit of a vibration wave motor. 4,692,649, 9-8-87, Cl. 310-316.000.
- Izukawa, Kazuhiro: *See—*
  - Hiramatsu, Akira; Mukohjima, Hitoshi; Kaneda, Naoya; Okuno, Takuo; Seki, Hiroyuki; Tsukimoto, Takayuki; Izukawa, Kazuhiro; and Okumura, Ichiro, 4,692,651, Cl. 310-323.000.
  - Okumura, Ichiro; Tsukimoto, Takayuki; Okuno, Takuo; Izukawa, Kazuhiro; Seki, Hiroyuki; Mukohjima, Hitoshi; Kaneda, Naoya; and Hiramatsu, Akira, 4,692,650, Cl. 310-323.000.
- Izumi, Akio: *See—*
  - Nakazawa, Toshiyuki; and Izumi, Akio, 4,685,808, Cl. 356-416.000.
- Izumi, Hideki: *See—*
  - Yoshioka, Masahiro; Izumi, Hideki; Inouye, Hiroshi; Hazaki, Eichi; and Nakadaira, Shiro, 4,639,146, Cl. 384-99.000.
- Izumi, Hideki D.; and Terrell, Paul J., to Romox Incorporated. Reprogrammable cartridge memory with built-in identification circuitry and programming method. 4,680,731, 7-14-87, Cl. 364-900.000.
- Izumi, John. Modular lamp socket and switch device. 4,668,845, 5-26-87, Cl. 200-51.00R.
- Izumi, Junji: *See—*
  - Moronaga, Yoshiharu; and Izumi, Junji, 4,633,598, Cl. 36-44.000.
- Izumi, Kanichi: *See—*
  - Akiike, Katsumi; Ichikawa, Haruo; Izumi, Kanichi; and Onodera, Tadayoshi, 4,670,728, Cl. 337-49.000.
  - Ichikawa, Haruo; Chida, Fumio; Akiike, Katsumi; and Izumi, Kanichi, 4,642,598, Cl. 337-82.000.
- Izumi, Kazuo, to Sharp Kabushiki Kaisha. Artificial respiration ventilator of air constant flow. 4,635,631, 1-13-87, Cl. 128-204.230.
- Izumi, Kazuo: *See—*
  - Nishimuta, Kouichi; Izumi, Kazuo; and Shinsugi, Kazue, 4,685,951, Cl. 71-78.000.
- Izumi, Kazuyoshi: *See—*
  - Eto, Masayuki; Izumi, Kazuyoshi; Kobayashi, Fuyuki; Kawagishi, Mamoru; and Oosawa, Masahiro, 4,639,721, Cl. 340-747.000.
- Izumi, Kenzo: *See—*
  - Maehara, Junichiro; Izumi, Kenzo; and Hirokawa, Ikuo, 4,703,078, Cl. 524-476.000.
- Izumi, Kouichi, to Diesel Kiki Co., Ltd. Apparatus for detecting amount of change in rotational speed of internal combustion engine. 4,635,201, 1-6-87, Cl. 364-431.070.
- Izumi, Kouji; Horike, Masanori; Furukawa, Tatsuya; Komai, Hiromichi; Naruse, Osamu; and Ebi, Yutaka, to Ricoh Company, Ltd. Device for detecting viscosity of liquid. 4,677,845, 7-7-87, Cl. 73-56.000.
- Izumi, Masayuki: *See—*
  - Iesaka, Takashi; Wada, Takaaki; Ohta, Ikumi; and Izumi, Masayuki, 4,638,618, Cl. 52-509.000.
- Izumi, Mitsuo. Vise for clamping two works. 4,643,411, 2-17-87, Cl. 269-153.000.
- Izumi, Shigeru; Senoh, Makoto; Tsumaki, Koji; and Miyata, Kenji, to Hitachi, Ltd. Method and apparatus for estimating sound source position. 4,641,526, 2-10-87, Cl. 73-572.000.
- Izumi, Shuji: *See—*
  - Mukai, Hiromu; Yamaki, Toshio; Fujino, Akihiko; Izumi, Shuji; Nakai, Masaaki; and Taniguchi, Nobuyuki, 4,705,382, Cl. 354-412.000.

Nakai, Masaaki; Izumi, Shuji; Fujino, Akihiko; Taniguchi, Nobuyuki; Yamaki, Toshio; and Mukai, Hiromu, 4,690,536, Cl. 354-402.000.

Yamaki, Toshio; Mukai, Hiromu; Fujino, Akihiko; Izumi, Shuji; Nakai, Masaaki; and Taniguchi, Nobuyuki, 4,693,581, Cl. 354-400.000.

Izumi, Takashi: *See—*

Homma, Shirou; Izumi, Takashi; and Murakami, Sakae, 4,701,508, Cl. 526-249.000.

Izumi, Takayuki; Naito, Tsutomu; Shinya, Masuo; and Nomura, Tomio, to Toa Nenryo Kogyo Kabushiki Kaisha. Optically anisotropic carbonaceous pitch. 4,655,902, 4-7-87, Cl. 208-22.000.

Izumi, Takayuki: *See—*

Uenoyama, Yoshio; Takazawa, Kiyoshi; and Izumi, Takayuki, 4,670,202, Cl. 264-39.000.

Izumi, Tomoo, to Showa Cabot Supermetals K. K. Tantalum powder and method of making. 4,645,533, 2-24-87, Cl. 75-0.5AB.

Izumi, Toshio, to Toyota Jidosha Kabushiki Kaisha. Mounting structure with asymmetrical cushioning performance and vehicle suspension incorporating the same. 4,641,855, 2-10-87, Cl. 280-716.000.

zumi, Toshio; and Kawakatsu, Fukuyoshi, to Tokai Rubber Industries, Ltd.; and Toyota Jidosha Kabushiki Kaisha. Resilient bushing. 4,667,943, 5-26-87, Cl. 267-141.300.

zumi, Toshio; Saito, Ryozo; Kato, Yoichi; and Miyata, Hiroshi, to Toyota Jidosha Kabushiki Kaisha. Control system for three way variable shock absorber device for suspension with highest shock absorber effectiveness not selected in manual mode. 4,691,284, 9-1-87, Cl. 364-424.000.

zumi, Toshiro; and Ueda, Hiroyuki, to Precision Fukuhara Works, Ltd. Lint removing apparatus for circular knitting machine. 4,703,632, 11-3-87, Cl. 66-168.000.

zumi, Tsunetada: *See—*

Gojo, Tomomi; Yagi, Yoshio; and Izumi, Tsunetada, 4,695,834, Cl. 340-734.000.

zumi, Yoshinori: *See—*

Ninomiya, Yuichi; Ohtsuka, Yoshimichi; Izumi, Yoshinori; and Goushi, Sei'ichi, 4,692,801, Cl. 358-133.000.

zumida, Masuhiro: *See—*

Futatsuka, Rensei; Kumagai, Seiji; and Izumida, Masuhiro, 4,668,471, Cl. 420-477.000.

zumida, Satoshi, to Ikeda Bussan Co. Ltd. Buffer device for use to the seats of vehicles. 4,702,454, 10-27-87, Cl. 248-585.000.

zumida, Teruo: *See—*

Yamanaka, Yasutoshi; Ageishi, Kazunobu; and Izumida, Teruo, 4,638,856, Cl. 165-119.000.

zumimori, Hajime: *See—*

Yamasaki, Shinsuke; and Izumimori, Hajime, 4,704,253, Cl. 420-499.000.

zumimoto, Hideki: *See—*

Noro, Shingo; Saitou, Kunio; and Izumimoto, Hideki, 4,661,325, Cl. 422-304.000.

zumisawa, Hiroyuki: *See—*

Asai, Koh; Izumisawa, Hiroyuki; Owada, Katsuaki; Kinoshita, Seiichiro; and Matsuno, Shunji, 4,646,352, Cl. 382-5.000.

zumita, Morishi; Mita, Seiichi; Umemoto, Masuo; Kanada, Hidehiro; and Rokuda, Morito, to Hitachi, Ltd.; and Hitachi Denshi Kabushiki Kaisha. Method of correcting errors of digital signals in the recording and reproduction of digital signals. 4,661,956, 4-28-87, Cl. 371-38.000.

zumita, Morishi: *See—*

Doi, Nobukazu; Izumita, Morishi; Mita, Seiichi; Eto, Yoshizumi; and Rokuda, Morito, 4,653,052, Cl. 371-39.000.

Mita, Seiichi; Izumita, Morishi; Michikawa, Yuichi; Katayama, Hitoshi; Shiono, Hiroshi; Takagi, Hitoshi; Rokuda, Morito; and Doi, Nobukazu, 4,682,115, Cl. 328-164.000.

Umenoto, Masuo; Mita, Seiichi; Izumita, Morishi; Michikawa, Yuuichi; Rokuda, Morito; Katayama, Hitoshi; and Kanada, Hidehiro, 4,670,797, Cl. 358-310.000.

zumiya, Hirotsugu: *See—*

Kajihara, Takehiro; Atsumi, Senji; and Izumiya, Hirotsugu, 4,665,344, Cl. 313-624.000.

Kajihara, Takehiro; Atsumi, Senji; and Izumiya, Hirotsugu, 4,687,969, Cl. 313-625.000.

zumiya, Shunzo; Okuyama, Yuji; and Ito, Masaya, to Fanuc Ltd. Wire-cut electric discharge machine. 4,689,457, 8-25-87, Cl. 219-69.00W.

zumiya, Shunzo: *See—*

Inoue, Michiya; Obara, Haruki; and Izumiya, Shunzo, 4,681,997, Cl. 219-69.00C.

zuo, Masahiro: *See—*

Minamitani, Kunitomo; Izuo, Masahiro; Nakao, Yuji; Nishikawa, Toshihide; and Kawaguchi, Hiroyuki, 4,703,735, Cl. 123-489.000.

zuo, Takashi: *See—*

Shirai, Hisao; Sibata, Takuo; and Izuo, Takashi, 4,647,008, Cl. 251-129.070.

Yamamoto, Toshiaki; Kako, Hiroyoshi; Shibata, Takuo; Izuo, Takashi; Kamimae, Hajime; and Takegawa, Hiroaki, 4,696,379, Cl. 188-299.000.

zuoka, Tomio: *See—*

Matsumoto, Tooru; Ishikawa, Satoshi; Nakamura, Eiji; Izuoka, Tomio; and Okada, Tomoyuki, 4,657,963, Cl. 524-406.000.

zushi, Munehisa: *See—*

Theuwissen, Albert J. P.; Izushi, Munehisa; Jaspers, Cornelis A. M.; van de Steeg, Martinus J. H.; and Vermeulen, Arend J. W. A., 4,668,991, Cl. 358-227.000.

zuta, Hitoshi: *See—*

Kawase, Yukio; and Izuta, Hitoshi, 4,699,419, Cl. 296-192.000.

Izuta, Tadao, to Nippon Gakki Seizo Kabushiki Kaisha. Joint structure of a take-down type archery bow. 4,674,468, 6-23-87, Cl. 124-23.00R.

Izuta, Tadao, to Nippon Gakki Seizo Kabushiki Kaisha. Archery string. 4,702,067, 10-27-87, Cl. 57-243.000.

Izutani, Naoaki: *See—*

Ohmori, Akira; Yasuhara, Takashi; Izutani, Naoaki; and Ueda, Yasufumi, 4,644,043, Cl. 526-246.000.

Ohmori, Akira; Tomihashi, Nobuyuki; Inukai, Hiroshi; and Izutani, Naoaki, 4,655,807, Cl. 55-522.000.

Izutani, Toshiyuki; Tomita, Yuichi; and Yokoyama, Hiroshi, to NEC Corporation. Radar system. 4,658,257, 4-14-87, Cl. 342-372.000.

Izutani, Toshiyuki: *See—*

Kiuchi, Eiichi; Tomita, Yuichi; and Izutani, Toshiyuki, 4,654,665, Cl. 342-160.000.

Izutsu, Hitoshi; and Yamaguchi, Toshihide, to Dainippon Ink and Chemicals, Inc. Polyphenylene sulfide resin composition containing mixture of silicon compounds. 4,703,074, 10-27-87, Cl. 524-262.000.

Izutsu, Masayuki; Sueta, Tadasi; and Matano, Masaharu. Slab-type optical device. 4,674,827, 6-23-87, Cl. 350-96.120.

Izutsu, Yasuo; Sogo, Kiyomi; Okamoto, Shizuo; and Tanaka, Terukazu, to Dainippon Pharmaceutical Co., Ltd. Pullulan and sugar coated pharmaceutical composition. 4,650,666, 3-17-87, Cl. 424-479.000.

Izuwa, Akio; and Yamaguchi, Tadanobu, to Mitsubishi Jukogyo Kabushiki Kaisha. Electronic beam welding method for screen cylinder. 4,697,060, 9-29-87, Cl. 219-121.0ED.

Izzi, Anthony J., to Mateer Burt Co., Inc. Feedback control for automatic filling machine. 4,696,329, 9-29-87, Cl. 141-1.000.

Izzi, Gilberto, to Fabbrica Italiana Magneti Marelli S.p.A. Glow plug for diesel engines of motor vehicles. 4,705,607, 11-10-87, Cl. 204-15.000.

Izzi, Lewis B., Sr., to Plastic Oddities, Inc. Plastic washing machine box with hinged mounting brackets. 4,637,422, 1-20-87, Cl. 137-360.000.

Izzo, Barbara A.: *See—*

Chang, Stephen S.; Ho, Chi-Tang; and Izzo, Barbara A., 4,670,267, Cl. 426-41.000.

Izzo, Henry J., to Lever Brothers Company. Aqueous butter flavored composition, preparation and use. 4,684,532, 8-4-87, Cl. 426-533.000.

Izzo, Kenneth R.: *See—*

Cearley, James E.; and Izzo, Kenneth R., 4,676,948, Cl. 376-333.000.

J. A. Baldwin Manufacturing Co.: *See—*

Cudaback, Roger L., 4,708,171, Cl. 137-588.000.

J.A.D. Enterprises, Inc.: *See—*

DePasquale, John A.; Segalowitz, Ivar R.; and Andolfi, Ceasar P., 4,712,359, Cl. 53-460.000.

J. A. Green Company: *See—*

Holt, Albert C., 4,702,110, Cl. 73-573.000.

J. B. Enterprises: *See—*

Burchfiel, Loyal E.; and Baker, John M., 4,661,719, Cl. 307-38.000.

J. B. Foote Foundry Co., The: *See—*

Edwards, Douglas F., 4,633,979, Cl. 188-72.700.

Edwards, Douglas F., 4,651,592, Cl. 74-689.000.

Edwards, Douglas F., 4,653,345, Cl. 74-700.000

Edwards, Douglas F., 4,656,886, Cl. 74-475.000.

Edwards, Douglas F., 4,662,241, Cl. 74-701.000.

Edwards, Douglas F., 4,702,119, Cl. 74-371.000.

J. B. Golf Enterprises, Inc.: *See—*

Strong, Michael P., 4,691,924, Cl. 273-189.00R.

J. B. Holden Co.: *See—*

Kilgour, Norman R., 4,688,345, Cl. 42-101.000.

J-B Industrial Corporation: *See—*

O'Brien, Errol C.; Placko, Martin; and Breneman, Wayne, 4,646,769, Cl. 134-199.000.

J. B. Tillott Limited: *See—*

Rhodes, John; and Evans, Brian K., 4,687,667, Cl. 424-195.100.

J. C. Bamford Excavators Limited: *See—*

Brocklebank, Norman; and Cooper, Alan, 4,679,336, Cl. 37-103.000.

Frost, Roger A., 4,669,947, Cl. 414-724.000.

J. C. Baxter Co.: *See—*

Betro, Joseph N.; Smith, George F.; and Henry, Vince M., 4,671,188, Cl. 108-56.300.

J.D. Enterprises, Inc.: *See—*

Gust, Jacob N., 4,664,583, Cl. 414-528.000.

J.D.M. Ltd., Co.: *See—*

Shigetomi, Tsuyoshi; and Inoue, Kazuo, 4,647,194, Cl. 356-30.000.

J. E. Hanger & Company Limited: *See—*

Barkhordar, Mohammad; Nightingale, James M.; and May, Dennis R. W., 4,650,492, Cl. 623-24.000.

J. E. Hanger Limited: *See—*

Charuest, George M.; and Coughlin, Lawrence P., 4,635,623, Cl. 128-80.00C.

J. E. Morgan Knitting Mills, Inc.: *See—*

Kemp, Philip, 4,678,693, Cl. 428-91.000.

J. E. Siebel Sons' Company, Inc.: *See—*

Hsu, Wen-Pin, 4,636,394, Cl. 426-330.400.

Hsu, Win-Pen, 4,659,662, Cl. 435-161.000.

J. Eberspacher: *See—*

Langen, Herbert; and Kenner, Erich, 4,650,415, Cl. 431-115.000.

Langen, Herbert; and Kenner, Erich, 4,669,973, Cl. 431-115.000.

Worner, Siegfried; and Ottle, Walter, 4,669,261, Cl. 60-297.000.

J. Eberspachge: *See—*

Reuter, Fritz, 4,644,266, Cl. 324-73.00R.

J & F Oil Tools, Inc.: *See—*

Franks, Robert L., Jr., 4,657,092, Cl. 175-232.000.

J. H. Benecke GmbH: *See*—
- Mente, Kurt, 4,637,104, Cl. 28-283.000
- Wagner, Alfred, 4,664,860, Cl. 264-134.000
- Wagner, Werner, 4,634,484, Cl. 156-219.000

J. I. Case Company: *See*—
- Albrecht, Allan, 4,638,680, Cl. 74-516.000
- Azzarello, Joseph A., 4,666,183, Cl. 280-756.000
- Bexten, Eugen; and Stufflebeam, John F., 4,674,578, Cl. 172-126.000
- Birkenbach, Eugen J.; Eversole, Brad K.; and Magee, Kevin J., 4,712,622, Cl. 172-328.000
- Chatterjea, Probir K., 4,644,968, Cl. 137-599.200
- Cornell, Charles R.; and Olson, David J., 4,648,040, Cl. 364-424.100
- Cornell, Charles R.; and Olson, David J., 4,663,713, Cl. 364-424.100
- Cornell, Charles R.; and Olson, David J., 4,663,714, Cl. 364-424.100
- Greene, Walter D., 4,665,772, Cl. 74-962.000
- Hagarty, Jon R., 4,667,629, Cl. 123-198.00E
- Hanson, Charles B., 4,715,771, Cl. 414-688.000
- Hardesty, Richard A.; Kerber, Dathan R.; Johnson, Orlin W.; and Benson, Richard E., 4,660,360, Cl. 56-208.000
- Harms, John R.; and Anderson, Ronald L., 4,648,780, Cl. 414-686.000
- Harms, John R.; and Anderson, Ronald L., 4,666,360, Cl. 414-607.000
- Harms, John R.; and Anderson, Ronald L., 4,706,762, Cl. 172-684.500
- Harwood, J. Richard; and Bell, Frank A., 4,696,349, Cl. 172-323.000
- Hoelzer, James C., 4,649,870, Cl. 123-41.860
- Horsch, Joachim, 4,643,285, Cl. 192-87.130
- Horsch, Joachim, 4,646,895, Cl. 192-87.130
- Horsch, Joachim, 4,651,858, Cl. 192-87.130
- Horsch, Rudolf, 4,633,960, Cl. 180-6.700
- Horsch, Rudolf, 4,661,036, Cl. 414-686.000
- Kassner, Harry W.; Draney, Robert G.; and Youngers, Stephen A., 4,650,370, Cl. 405-183.000
- Klee, Maurice; Peterson, Robert T.; Cochran, Gary L.; Dawson, James E.; and Anderson, Robert M., 4,682,666, Cl. 180-89.130
- Kucera, Frank C., 4,655,031, Cl. 56-11.900
- Ledermann, Donald L.; and Otten, Ronald L., 4,681,335, Cl. 280-446.00R
- Leonard, Emil T., 4,652,176, Cl. 405-182.000
- Marek, Donald C., 4,714,263, Cl. 280-111.000
- Maurer, Herman J.; and Shumaker, John F., 4,643,631, Cl. 414-723.000
- Pollard, Lorne R.; and Tashiro, Donald K., 4,669,945, Cl. 414-505.000
- Rashkovsky, Alexander, 4,665,768, Cl. 74-609.000
- Schaefer, David V.; and Honeyager, Richard J., 4,704,777, Cl. 29-148.300
- Scheberle, James W.; and Smith, Paul K., 4,657,216, Cl. 248-411.000
- Staley, Charles L.; Harms, John R.; and Anderson, Ronald L., 4,657,307, Cl. 299-36.000
- Tee, David D., 4,699,561, Cl. 414-699.000
- Vater, George R.; and Horsch, Joachim, 4,648,495, Cl. 192-70.120
- Vater, George R., 4,702,724, Cl. 464-172.000
- Watt, Dwayne B.; and Eversole, Brad K., 4,660,842, Cl. 280-43.230
- Wiebe, Kenneth J.; and Bexten, Eugen J., 4,660,654, Cl. 172-776.000
- Wiebe, Kenneth J.; Harwood, J. Richard; and Martin, Russell J., 4,700,784, Cl. 172-126.000

J.J. Seismic Flowing Hole Control (C.I.), Inc.: *See*—
- Jackson, Jim, 4,633,946, Cl. 166-187.000
- Jackson, Jim, 4,674,570, Cl. 166-187.000

J-Jet Konstruktion HB: *See*—
- Olsson, John; Olsson, Bertil; and Olsson, Gunnar, 4,640,234, Cl. 123-557.000

J & K Sales Co., Inc.: *See*—
- Wisniewski, John J., 4,653,207, Cl. 40-156.000

J. Kuhn GmbH Co.: *See*—
- Johne, Frank, 4,714,389, Cl. 409-233.000

J & L Associates, Inc.: *See*—
- Wolters, Donald R., 4,711,012, Cl. 29-243.520

J. L. Clark Manufacturing Co.: *See*—
- Pherigo, Douglas E., 4,634,019, Cl. 220-334.000

J. L. Wickham Company, Inc., The: *See*—
- Wickham, John L.; Fox, Jeffrey D.; and Miller, Ross C., 4,697,318, Cl. 29-33.00P
- Wickham, John L.; and Fox, Jeffrey D., 4,697,799, Cl. 269-32.000
- Wickham, John L., 4,715,113, Cl. 29-792.000

J & M Co., Ltd.: *See*—
- Goto, Hideo, 4,647,714, Cl. 174-36.000

J. M. Huber Corporation: *See*—
- Carson, Forrest L., 4,643,459, Cl. 285-84.000
- Kunkle, Albert C.; and Maxwell, Edgar J., III, 4,690,104, Cl. 204-300.00R
- Schramm, Dale E., 4,643,890, Cl. 423-659.000
- Schramm, Dale E., 4,671,944, Cl. 423-659.000
- Schramm, Dale E.; and Scott, Oscar T., IV, 4,675,164, Cl. 422-145.000
- Yawn, James M.; Whitaker, Huby M.; and Bridgers, Frank, 4,633,586, Cl. 30-168.020

J.M.J. Technologies Inc.: *See*—
- Cutler, William P., 4,675,225, Cl. 428-74.000

J. M. Ney Company, The: *See*—
- Kulig, Frank M., 4,656,874, Cl. 73-861.550
- Kulig, Frank M., 4,695,705, Cl. 219-354.000

J. M. Voith GmbH: *See*—
- Bahr, Theodor; Thumm, Helmut; and Musselmann, Wa 4,634,059, Cl. 241-46.00R
- Besswanger, Rudolf; Wohrle, Albert, deceased; and Pioner, t tgn, 4,700,658, Cl. 118-67.000
- Blickle, Karl; Fork, Werner; and Wunder, Hermann, 4,664 440-52.000
- Bronowski, Helmut; and Dahlke, Christian, 4,708,59 219.00C
- Bronowski, Helmut; and Dahlke, Christian, 4,715,78 219.00C
- Brosius, Klaus, 4,715,481, Cl. 188-291.000
- Ebner, Ernst, 4,680,986, Cl. 74-866.000
- Grossmann, Udo; Holzinger, Dieter; and Rohde, Gun 4,695,004, Cl. 242-56.00R
- Henrich, Hans-Otto; and Rienecker, Reimund, 4,710,26 209-270.000
- Keck, Wilfried; and Witek, Werner, 4,704,211, Cl. 206-17.00
- Kotitschke, Gerhard; and Horicke, Hans-Werner, 4,657,76 34-116.000
- Kotitschke, Gerhard; and Benz, Wilhelm, 4,656,778, Cl. 34-117
- Kotitschke, Gerhard; and Horicke, Hans-Werner, 4,680 34-116.000
- Krautzberger, Franz, 4,702,196, Cl. 118-410.000
- Lindenthal, Hans, 4,705,490, Cl. 464-132.000
- Meinecke, Albrecht; Schmid, Hans-Rainer; and Egelhof, Die 4,684,444, Cl. 165-380.000
- Muhle, Erwin; and Rahmig, Hermann, 4,642,862, Cl. 29
- Muller, Helmut, 4,641,549, Cl. 74-732.000
- Muller, Helmut, 4,669,262, Cl. 60-347.000
- Mullner, Josef; Schiel, Christian; and Steiner, Karl, 4,70 162-205.000
- Musselmann, Walter; and Konecny, Helmut, 4,641,7 241-46.170
- Musselmann, Walter; and Konecny, Helmut, 4,668,9 241-46.170
- Musselmann, Walter, 4,708,295, Cl. 241-46.170
- Schiel, Christian; and Bauder, Albrecht, 4,679,99 Cl. 29
- Schiel, Christian, 4,643,802, Cl. 162-358.000
- Schiel, Christian, 4,663,864, Cl. 34-125.000
- Schiel, Christian, 4,676,117, Cl. 74-421.00R
- Schiel, Christian; and Kotitschke, Herbert, 4,691,420, Cl. 2 116.00R
- Schiel, Christian, 4,691,421, Cl. 29-116.0AD
- Schilder, Hans; and Kuhn, Norbert, 4,668,168, Cl. 416-17.00
- Schucker, Thomas R., 4,688,986, Cl. 415-24.000
- Stadt, Enno; and Helfer, Friedrick, 4,699,022, Cl. 74-762.00
- Wanke, Wilhelm, 4,643,127, Cl. 118-413.000
- Wanke, Wilhelm; and Hauser, Ludwig, 4,648,942, Cl. 162-26
- Wohrle, Albert, 4,637,338, Cl. 118-126.000
- Zag, Heinz; Steiner, Karl; Mullner, Josef; and Flanig, Re 4,651,628, Cl. 92-165.0PR

J. Marich & Sons: *See*—
- Marich, John J.; and Vartanian, Thomas V., 4,657,4 409-143.000

J. P. Stevens & Co., Inc.: *See*—
- Gusman, Irwin J., 4,703,530, Cl. 5-497.000

J. P. Tool Limited: *See*—
- Rawle, Ralph H., 4,672,868, Cl. 82-2.00F

J. R. Mercer P.E. Company: *See*—
- Mercer, James R., 4,645,354, Cl. 368-15.000

J. R. Simplot Company: *See*—
- McIlvain, Jack R.; and Thompson, Sherman, 4,65 99-637.000
- Polinsky, Samuel M.; Bierman, Larry W.; and Hempel, Dea 4,642,181, Cl. 209-167.000

J.S. Staedtler, Firma: *See*—
- Dziuk, Peter, 4,634,306, Cl. 401-215.000

J. Strobel & Sohne GmbH & Co.: *See*—
- Jagielski, Johannes, 4,712,495, Cl. 112-176.000

J. T. Baker Chemical Company: *See*—
- Ramsden, Hugh E.; and Patterson, Joseph M., 4,64 502-407.000
- Ramsden, Hugh E.; and Patterson, Joseph M., III, 4,65 502-407.000
- Ramsden, Hugh E., and Nau, David R., 4,661,248, Cl. 210-198.2
- Ramsden, Hugh E.; and Patterson, Joseph M., 4,680,12 210-635.000
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J. T. Eaton & Company: *See*—
- Baker, Stanley Z.; Baker, Benjamin H.; and Baker, Be 4,660,320, Cl. 43-131.000

J. T. Posey Company: *See*—
- Posey, John T., 4,685,454, Cl. 128-134.000

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- Tofield, Joshua J.; Burkhardt, Boyd R.; Martin, Timothy S.; a Economidy, Byron G., 4,676,802, Cl. 623-66.000

J. W. Harley Pump Works, Inc.: *See*—
- Hazony, Dov; and Berris, Richard E., Jr., 4,649,740, Cl. 73-5

J. W. Harris Company: *See—*
Ballentine, Richard E., and Henson, Robert M., 4,695,428, Cl 420-561.000.
Henson, Robert M., and Cartheuser, Kent H., 4,670,217, Cl 420-562.000.

J. Wagner AG: *See—*
Huber, Willi; and Mussner, Klaus, 4,651,932, Cl. 239-707.000.
Zylka, Hans-Joachim, 4,674,003, Cl. 361-235.000.

J. Wagner GmbH: *See—*
Boll, Hans-Joachim, 4,705,995, Cl. 318-129.000.

Jaatinen, Jarl: *See—*
Miemela, Pentti; and Jaatinen, Jarl, 4,707,603, Cl. 250-339.000.

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Gerdsen, Hans G., and Jabbusch, Wolfgang, 4,665,853, Cl 114-61.000.

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Kalista, David L.; Zboralski, James A.; and Hock, Darryl A., 4,673,315, Cl. 376-203.000.

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Jabloner, Harold; Swetlin, Brian J.; and Chu, Sung G., to Hercules Incorporated. Epoxy thermosets having improved toughness. 4,656,207, 4-7-87, Cl. 523-400.000.

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Komives, Tamas; Dutka, Ferenc; Bartis, Istvan; Jablonkai, Istvan; Hulesch, Agnes; Bihari, Ferenc; Eifert, Gyula; Bohus, Peter; Nagy, Mihaly; Bocskai, Gyorgy; and Kuronya, Istvan, 4,708,733, Cl. 71-94.000.

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Jablonski, Ernest F.: *See—*
Petrosek, Allan J., and Jablonski, Ernest F., 4,651,007, Cl. 250-363.00R.

Jablonski, Marek; Kwapisz, Bogdan; Proniewicz, Andrzej; Stepniewska-Jarosbka, Joanna; and Tokarski, Czeslaw J., to Instytut Technologii Materialow Elektronicznych. Method of producing crystals of materials for use in the electronic industry. 4,662,982, 5-5-87, Cl. 156-617.0SP.

Jablonski, Pierre: *See—*
Sciaky, Mario; Jablonski, Pierre; Marianne, Jean-Jacques; and Leonard, Michel, 4,675,069, Cl. 29-281.400.

Jablonski, Vincent. Mute for string musical instrument. 4,667,560, 5-26-87, Cl. 84-310.000.

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Tuttle, James N., Jr., and Jaboin, Olyn P., 4,673,445, Cl. 148-6.15R.

Jabs, Alfred: *See—*
Wohrl, Bernhard; and Jabs, Alfred, 4,679,619, Cl. 165-81.000.

Jabs, Gert: *See—*
Dahm, Manfred; Jabs, Gert; and Wawra, Georg, 4,668,580, Cl 428-402.210.
Rauchheimer, Hans-volker; Nehen, Ulrich; and Jabs, Gert, 4,687,853, Cl. 546-121.000.

Jabs, Robert H., to Westinghouse Electric Corp. Testing device for detecting contact chatter in electrical components with movable contacts, such as relays. 4,686,478, 8-11-87, Cl. 324-420.000.

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Jac Jacobsen A/S: *See—*
Krogsrud, Jens C., and Sorensen, Kai O., 4,683,526, Cl 362-346.000.

Jacaruso, Gary J., to United Technologies Corporation. Method for stabilizing thick honeycomb core composite articles. 4,680,216, 7-14-87, Cl. 428-116.000.

Jaccaud, Michel: *See—*
Leroux, Francois; and Jaccaud, Michel, 4,654,128, Cl. 204-59.00F.

Jaccod, Michel, to Valeo. Variable speed drive pulley. 4,639,238, 1-27-87, Cl. 474-8.000.

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Jachimowicz, Felek: *See—*
Hansson, Per E. A., and Jachimowicz, Felek, 4,689,374, Cl 525-435.000.

Jachmann, Jurgen: *See—*
Wettemeyer, Christian; and Jachmann, Jurgen, 4,678,846, Cl 525-477.000.

Jachmann, Rolf D., deceased; and by Jachmann, Ursula, executrix. Junction piece for releasably connecting rod-shaped elements with one another. 4,664,550, 5-12-87, Cl. 403-171.000.

Jachmann, Ursula, executrix: *See—*
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Jachowski, Ronald E., and Dickson, Donald C., to Orion Industries, Inc. Multiple cavity square prism filter transmitter combiner with shared square walls and tuning controls mounted on rectangular end walls. 4,644,303, 2-17-87, Cl. 333-134.000.

Jachowski, Ronald E., to Orion Industries, Inc. Duplexer including integral interdigital transmitter and receiver filters and three-quarter wavelength antenna transformer section. 4,660,004, 4-21-87, Cl. 333-134.000.

Jachowski, Ursula. Strapless outer garment for a woman. 4,667,345, 5-26-87, Cl. 2-91.000.

Jack, Curtis A.: *See—*
Emkey, William L., and Jack, Curtis A., 4,701,011, Cl. 350-96.110.

Jack, Douglas S., and Garner, James W., to Phillips Petroleum Company. Apparatus for continuous overbasing of petroleum sulfonate with water removal and methanol addition between reaction stages. 4,661,318, 4-28-87, Cl. 422-62.000.

Jack, Douglas S.: *See—*
Spence, J. Ronald; and Jack, Douglas S., 4,664,246, Cl. 196-46.100.

Jack, James: *See—*
Bentley, Robert L.; Hoyle, William; and Jack, James, 4,696,763, Cl 252-391.000.
Dingwall, John G.; Ehrenfreund, Josef; Hall, Roger G.; and Jack, James, 4,656,298, Cl. 556-12.000.

Jack, Kenneth H., to University of Newcastle Upon Tyne, The. Composite materials and products. 4,701,381, 10-20-87, Cl. 428-548.000.

Jack Knight (Developments) Limited: *See—*
Knight, David J., 4,667,535, Cl. 74-715.000.

Jack Walters & Sons, Corp.: *See—*
Geisthardt, Alan C., 4,679,367, Cl. 52-233.000.

Jackel, Janet L., to Bell Communications Research, Inc. Mach-Zehnder integrated optical modulator. 4,709,978, 12-1-87, Cl. 350-96.140.

Jackel, Lothar: *See—*
Bathelt, Heinrich; Ehrl, Winfried; Wehowsky, Frank; Kleber, Rolf; Lutz, Werner; Glenz, Wolfgang; Herdt, Hubert; Jackel, Lothar; Mast, Jan-Hilbert; Hintermeier, Karl; and Muller, Manfred, 4,709,074, Cl. 560-33.000.

Jackett, Nancy: *See—*
Allred, David; Dec, Krystyna; Jackett, Nancy; Van Nguyen, On; and Reyes, Jaime, 4,654,224, Cl. 427-34.000.

Jackisch, Philip F., to Ethyl Corporation. Dehydrohalogenation of haloethyl brominated benzenes. 4,686,311, 8-11-87, Cl. 570-193.000.

Jackle, Heiner G., to Conducta Gesellschaft fur Mess-und Regeltechnik mbH & Co. Method for the protection of and/or monitoring of changes in a reference system in analytical measuring engineering, and reference system with a reference electrode. 4,686,011, 8-11-87, Cl. 204-1.00T.

Jackle, Horst, to Johann Jackle Metallwarenfabrik, GmbH & Co. Astronomical clock. 4,684,260, 8-4-87, Cl. 368-16.000.

Jacklich, John, and Mikula, George, to Jacklich, John. High pressure syringe with pressure indicator. 4,710,172, 12-1-87, Cl. 604-118.000.

Jacklich, John J. Endodontic file. 4,674,979, 6-23-87, Cl. 433-102.000.

Jacklin, Keith A.: *See—*
Koch, G. Teryl; Smith, Thomas L.; Jacklin, Keith A.; and Hammond, James A., 4,698,252, Cl. 428-159.000.

Jackman, Dennis E., to Mobay Corporation. Preparation of monochloropinacolone. 4,642,385, 2-10-87, Cl. 568-393.000.

Jackman, Dennis E.; Westphal, Dietmar B.; and Schmidt, Thomas, to Mobay Corporation; and Bayer Aktiengesellschaft. Production of S-substituted isothioureas. 4,659,819, 4-21-87, Cl. 544-182.000.

Jackovitz, John F., and Kunkle, Richard P., to United States of America, Energy. Surfactant addition to phosphoric acid electrolyte. 4,639,401, 1-27-87, Cl. 429-30.000.

Jackowski, Ronald A., to Chicago Rawhide Mfg. Co. Fluid seals with unitary wear sleeve elements. 4,643,436, 2-17-87, Cl. 277-1.000.

Jacks, Richard P., and Sprague, Richard P., to First Byte. Real-time text-to-speech conversion system. 4,692,941, 9-8-87, Cl. 381-52.000.

Jackson, Alan C., to Cessna Aircraft Company, The. Open center unloading valve. 4,655,250, 4-7-87, Cl. 137-596.130.

Jackson, Alistair J., to Imperial Chemical Industries PLC. Vehicles. 4,664,340, 5-12-87, Cl. 244-76.00R.

Jackson, Alistair J., and Coffee, Ronald A., to Imperial Chemical Industries PLC. Apparatus for spraying liquids from a moving vehicle. 4,703,891, 11-3-87, Cl. 239-171.000.

Jackson, Arthur: *See—*
Hollowood, John; Jackson, Arthur; and Heyes, Graham, 4,687,845, Cl. 544-54.000.

Jackson, Bruce J.: *See—*
Knowles, Vernon L.; Wilcox, Roger V.; and Jackson, Bruce J., 4,688,118, Cl. 360-75.000.

Jackson, Carl E. Exterior brake for tandem tires. 4,694,936, 9-22-87, Cl. 188-2.00R.

Jackson, Charles L., to AMP Incorporated. Electrical terminal. 4,679,887, 7-14-87, Cl. 439-849.000.

Jackson, Charleston W. Leg movement restraining device for training athletes. 4,706,957, 11-17-87, Cl. 273-188.00R.

Jackson, Clive L.: *See—*

Nordmeyer, Friedrich; Schunk, Eckard; Winter, Frank; and Jackson, Clive L., 4,646,318, Cl. 373-105.000.

Jackson, D. Keith: *See—*

McGregor, Ian R.; Jackson, D. Keith; Brown, Walter F. M.; and Burrell, Kenneth, 4,708,775, Cl. 203-40.000.

Jackson, David A.; Corke, Michael; and Kersey, Alan D., to Kent Scientific and Industrial Projects Limited. Polarimetric fibre sensor. 4,642,458, 2-10-87, Cl. 250-225.000.

Jackson, David A.; Corke, Michael; Kersey, Alan D.; and Jones, Julian D. C., to Kent Scientific and Industrial Projects Limited. Optical pressure sensing apparatus. 4,678,909, 7-7-87, Cl. 250-231.00P.

Jackson, David A.; Corke, Michael; and Kersey, Alan D., to Kent Scientific and Industrial Projects Limited. Fiber optical interferometric temperature sensor with ramp modulation. 4,714,342, 12-22-87, Cl. 356-44.000.

Jackson, David A.: *See—*

Jones, Julian D. C.; Jackson, David A.; and Leilabady, Pedram A., 4,706,502, Cl. 73-861.240.

Jackson, David B.: *See—*

Plater, Michael G.; Middleton, Kenneth; and Jackson, David B., 4,685,839, Cl. 405-288.000.

Jackson, David S., to Johnson & Johnson Products, Inc. Chitosan-glycerol-water gel. 4,659,700, 4-21-87, Cl. 514-55.000.

Jackson, Dawn A.: *See—*

Alexander, John H.; and Jackson, Dawn A., 4,670,815, Cl. 361-321.000.

Jackson, Donald A.: *See—*

Teague, Terry S.; Jackson, Donald A.; Kerske, James L.; Nichols, Stephen R.; and McGuire, Robert L., 4,688,750, Cl. 248-243.000.

Jackson, Douglas J.: *See—*

Harbolt, Bruce; Saake, James T.; and Jackson, Douglas J., 4,705,432, Cl. 406-60.000.

Jackson, Douglas O.; and Virnig, Daniel R., to Boeing Company, The. Automatic thrust restoration system. 4,662,171, 5-5-87, Cl. 60-39.150.

Jackson, Earl W., Jr.: *See—*

Dutton, Patrick F.; and Jackson, Earl W., Jr., 4,713,751, Cl. 364-200.000.

Jackson, Eldon D., to Johnson Corporation, The. Rotary joint with balanced seals. 4,635,969, 1-13-87, Cl. 285-95.000.

Jackson, Eugene D.: *See—*

Chen, Wei-Chung; and Jackson, Eugene D., 4,671,676, Cl. 384-100.000.

Jackson, Francis W. Multiple piston expansion chamber engine. 4,715,328, 12-29-87, Cl. 123-52.00B.

Jackson, Frank W.; and Schlossberg, David, to Bio-Innovations. Container package for staining a biological specimen. 4,635,790, 1-13-87, Cl. 206-210.000.

Jackson, Frank W.; and Schlossberg, David, to Bio-Innovations. Container package for staining biological specimens. 4,635,791, 1-13-87, Cl. 206-210.000.

Jackson, Garth A.; and Ballard, A. Stevens, to Top Flite Industries, Inc. Storage and selectable display device for sheet media. 4,658,524, 4-21-87, Cl. 40-499.000.

Jackson, Gary L., to Bauer Bros. Co., The. Refiner with improved bearing retainer construction. 4,688,732, 8-25-87, Cl. 241-251.000.

Jackson, Gerald W.; and Rohweder, David S. Wheeled vehicle test fixture connector. 4,689,998, 9-1-87, Cl. 73-669.000.

Jackson, Gregg B. Sail and sailing rig. 4,637,331, 1-20-87, Cl. 114-39.000.

Jackson, Hiram S.: *See—*

Swanson, Roy T.; Chabala, Leonard V.; and Jackson, Hiram S., 4,692,734, Cl. 337-162.000.

Jackson, Jacqueline J.; Dvornichenko, Anatoly; and Cooper, Daniel, to Hemotec, Inc. Gas flow cartridge having resilient flexible membrane with slit separating reaction and reagent chambers. 4,663,127, 5-5-87, Cl. 422-58.000.

Jackson, James G. Ornamental device and method of constructing same. 4,650,701, 3-17-87, Cl. 428-16.000.

Jackson, James G., III. Water-bag dam or dike and method. 4,692,060, 9-8-87, Cl. 405-115.000.

Jackson, Jerry L.; and Outen, Johnny B., to Harris Press and Shear, Inc. Oversize bale release mechanism for waste material baler. 4,658,719, 4-21-87, Cl. 100-218.000.

Jackson, Jim, to J.J. Seismic Flowing Hole Control (C.I.), Inc. Bore hole plug. 4,633,946, 1-6-87, Cl. 166-187.000.

Jackson, Jim, to J.J. Seismic Flowing Hole Control (C.I.) Inc. Bore hole plug. 4,674,570, 6-23-87, Cl. 166-187.000.

Jackson, Jim: *See—*

Luoma, Paavo; and Jackson, Jim, 4,669,540, Cl. 166-135.000.

Jackson, John, to University of Strathclyde. Apparatus and method for monitoring bone-fracture union. 4,649,933, 3-17-87, Cl. 128-774.000.

Jackson, John; and Angadjivand, Seyed A., to University of Strathclyde. Elastomeric electro-conductive devices. 4,654,475, 3-31-87, Cl. 174-94.00R.

Jackson, John; and Angadjivand, Seyed A., to University of Strathclyde. Electro-conductive elastomeric materials. 4,684,481, 8-4-87, Cl. 252-510.000.

Jackson, John M.: *See—*

Gilliam, Edward C.; Jackson, John M.; and Lamie, Billy J., 4,637,260, Cl. 73-826.000.

Jackson, Joseph F., to Pratt Burnerd International Limited. Chuck. 4,700,955, 10-20-87, Cl. 279-4.000.

Jackson, Keith L., to Lukens General Industries, Inc. Radial axle railway truck with axle couplings at sides transversely interconnected with each other. 4,648,326, 3-10-87, Cl. 105-168.000.

Jackson, Kenneth R.; and Tofigh, Farshid, to Leach Corporation. Inductive power controller. 4,695,917, 9-22-87, Cl. 361-58.000.

Jackson, L. Robert; Davis, Randall C.; and Taylor, Allan H., to United States of America, National Aeronautics and Space Administration. Daze fasteners. 4,650,385, 3-17-87, Cl. 411-166.000.

Jackson Lab.: *See—*

Coleman, Douglas L.; and Applezweig, Norman, 4,666,8, Cl. 514-177.000.

Jackson, Larry L. Air flow control valve. 4,676,272, 6-30-87, Cl. 137-625.410.

Jackson, Lauren: *See—*

Cashaw, Alan G.; Cole, Robert; Holmes, Rory; Whitaker, Herbert L., Jr.; and Jackson, Lauren, 4,705,712, Cl. 428-152.000.

Jackson, Mark F.; Lawruk, Stephen P.; Schlegel, Dallas E.; and Spong, Richard V., to AMP Incorporated. Pick-up head. 4,715,112, 12-29-87, Cl. 29-739.000.

Jackson, Mark F.: *See—*

Bocchicchio, Keith A.; Jackson, Mark F.; Hall, David L.; and Paukovits, Edward J., Jr., 4,649,633, Cl. 29-739.000.

Jackson, Melvin R.; Siemers, Paul A.; and Perrin, David P., to General Electric Company. Gun barrel for use at high temperature. 4,66, 6-2-87, Cl. 42-76.020.

Jackson, Melvin R.: *See—*

Siemers, Paul A.; Kopp, Robert W.; and Jackson, Melvin R., 4,657,823, Cl. 428-610.000.

Jackson, Michael: *See—*

Naimon, Errol J.; and Jackson, Michael, 4,686,975, Cl. 128-24

Jackson, Michael G.: *See—*

Conner, Trevor J.; and Jackson, Michael G., 4,660,8, Cl. 270-1.100.

Jackson, Michael R. Field marker and method. 4,635,847, 1-13-87, Cl. 239-1.000.

Jackson, Owen E.; and Donaldson, Thomas W. Device for removing fluid from a well. 4,712,667, 12-15-87, Cl. 198-643.000.

Jackson, Paul H., to International Business Machines Corporation. Display terminal. 4,636,770, 1-13-87, Cl. 340-709.400.

Jackson, Peter J.: *See—*

Buchanan, David J.; Davis, Richard; Jackson, Peter J.; and Mair, Iain M., 4,653,031, Cl. 367-59.000.

Jackson, Philip, to Giordano Associates, Inc. System for automatic testing of circuits and systems. 4,656,632, 4-7-87, Cl. 371-20.000.

Jackson, Philip. Screen comprising a travelling endless screening belt. 4,692,242, 9-8-87, Cl. 210-160.000.

Jackson, Phillip B.: *See—*

Ferguson, Brian D.; and Jackson, Phillip B., 4,702,0, Cl. 47-33.000.

Jackson, Randall L.: *See—*

O'Connor, Michael; Jackson, Randall L.; and Marple, David 4,635,217, Cl. 364-574.000.

O'Connor, Michael; Jackson, Randall L.; and Marple, David 4,646,254, Cl. 364-574.000.

Jackson, Randy D.; Woodman, Mary F.; and Small, Catherine L., to Jackson, Randy D. Cross country ski pole with interchangeable baskets. 4,669,752, 6-2-87, Cl. 280-824.000.

Jackson, Raymond. Boom mounting assembly. 4,643,358, 2-17-87, Cl. 239-166.000.

Jackson, Richard A., to Grass Valley Group, Inc., The. Television special effects system. 4,689,681, 8-25-87, Cl. 358-183.000.

Jackson, Richard A., to Grass Valley Group, Inc., The. Method and apparatus for carrying out television special effects. 4,689,6, 8-25-87, Cl. 358-183.000.

Jackson, Richard A.: *See—*

Abt, John; and Jackson, Richard A., 4,700,232, Cl. 358-183.000.

Jackson, Richard L.; and John, Ansel N. Rotary trimmer. 4,673, 6-16-87, Cl. 30-276.000.

Jackson, Richard L.: *See—*

John, Ansel N.; and Jackson, Richard L., 4,715,123, Cl. 30-276.000.

Jackson, Robert E.: *See—*

Jones, Emrys H., Jr.; and Jackson, Robert E., 4,706,4, Cl. 73-3.000.

Jackson, Robert G. Interconnecting container lock. 4,641,399, 2-1, Cl. 24-287.000.

Jackson, Robert K.: *See—*

Fishwick, Alan J.; Jackson, Robert K.; and Wilson, Anthony 4,654,003, Cl. 432-35.000.

Jackson, Robert L., to International Business Machines Corporation. Seeding process for electroless metal deposition. 4,701,351, 10-20-87, Cl. 427-98.000.

Jackson, Robert L.: *See—*

Hall, Dale R.; Jackson, Robert L.; and Purks, Charles V., 4,670,4, Cl. 523-179.000.

Jackson, Robert L., Jr.: *See—*

Hoogenboom, Leo; Jackson, Robert L., Jr.; Kraft, Russell P.; and Offt, Alan M., 4,710,808, Cl. 358-107.000.

Jackson, Robert W.: *See—*

Kosarski, Raymond, Jr.; and Jackson, Robert W., 4,679,3, Cl. 60-562.000.

Jackson, Rodney P., to USM Corporation. Removable blades for a clinch head assembly. 4,644,634, 2-24-87, Cl. 29-565.300.

Jackson, Roy K.: *See—*
Davies, William L.; Hahn, Clive E. W.; Jackson, Roy K.; McGraghan, Thomas A.; Palayiwa, Eileen; and Sugg, Basil R., 4,690,562, Cl. 356-361.000.

Jackson, Scott C.; and Rocheleau, Richard E., to University of Delaware, The. Apparatus and method for photochemical vapor deposition. 4,654,226, 3-31-87, Cl. 427-54.100.

Jackson, Thomas L. Apparatus and method for producing a multisided, multicolored display. 4,641,446, 2-10-87, Cl. 40-444.000.

Jackson, Thomas N.: *See—*
Freeouf, John L.; Jackson, Thomas N.; Laux, Steven E.; and Woodall, Jerry M., 4,638,342, Cl. 357-15.000.

Jackson, W. Shaun; and Bohm, Leslie E., to Eclipse, Inc. Pannier and mounting arrangement for cycles. 4,662,548, 5-5-87, Cl. 224-32.00A.

Jackson, W. Shann. Convertible wind load exercise device. 4,705,267, 11-10-87, Cl. 272-134.000.

Jackson, Warren M., to Warren M. Jackson, Inc. Flat die thread roller. 4,677,837, 7-7-87, Cl. 72-88.000.

Jackson, Winston J., Jr.; and Morris, John C., to Eastman Kodak Company. Blends of bisphenol A polycarbonate with poly(ester-imides) and poly(ester-imide-amides). 4,645,802, 2-24-87, Cl. 525-419.000.

Jackson, Winston J., Jr.; and Morris, John C., to Eastman Kodak Company. Poly(ester-imides) and poly(ester-imide-amides) of trimellitic anhydride and 4-(aminomethyl)cyclohexanemethanol. 4,673,726, 6-16-87, Cl. 528-288.000.

Jaco Manufacturing Company: *See—*
Campbell, Lawrence C., 4,635,975, Cl. 285-340.000.

Jacoabs, Michael: *See—*
Weiss, John, 4,660,828, Cl. 272-138.000.

Jacob Ash and Company, Inc.: *See—*
Ash, Neal T., 4,663,784, Cl. 21-63.000.

Jacob, David E. Building construction. 4,655,016, 4-7-87, Cl. 52-169.100.

Jacob, Frederick W.: *See—*
Cook, John E.; Hagerty, Robert O.; and Jacob, Frederick W., 4,666,999, Cl. 526-84.000.

Jacob, Gernot; and Radom, Leon, to Progress-Elektrogerate Mauz & Pfeiffer GmbH & Co. Housing for a vacuum cleaner. 4,642,840, 2-17-87, Cl. 15-323.000.

Jacob, Gernot; and Radom, Leon, to Progress-Elektrogerate Mauz & Pfeiffer GmbH & Co. Housing for a vacuum cleaner. 4,656,688, 4-14-87, Cl. 15-327.00F.

Jacob, Gernot; and Radom, Leon, to Progress-Elektrogerate Mauz & Pfeiffer GmbH & Co. Vacuum cleaner housing and dust bags therefor. 4,678,486, 7-7-87, Cl. 55-374.000.

Jacob, Gernot; and Radom, Leon, to Progress-Elektrogerate Mauz & Pfeiffer GmbH & Co. Hand vacuum cleaner. 4,715,084, 12-29-87, Cl. 15-328.000.

Jacob-Grinschgl, Wolfgang; and Muller, Udo. Marking device for use with inductive measuring sensor. 4,639,547, 1-27-87, Cl. 178-18.000.

Jacob, Herbert: *See—*
Lampert, Ingolf; and Jacob, Herbert, 4,692,223, Cl. 204-34.500.

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Geho, W. Blair; Lau, John R.; and Jacob, Joseph, 4,705,804, Cl. 514-474.000.

Jacob, Keith D., to C-D Marketing, Ltd. Liquid crystal panel shade. 4,641,922, 2-10-87, Cl. 350-331.00R.

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Jacob, Keith D., to C-D Marketing, Ltd. Day/night mirror. 4,701,022, 10-20-87, Cl. 350-278.000.

Jacob, Neil R.; and Sutter, John R., to Smiths Industries Public Limited Company. Probe assemblies including such mounts. 4,679,431, 7-14-87, Cl. 73-290.00R.

Jacob, Neil R.: *See—*
Beckley, Keith A.; Jacob, Neil R.; and Trussler, Geoffrey A., 4,689,991, Cl. 73-304.00C.

Jacob, Paravila O., to General Motors Corporation. Method and apparatus for detecting a shorted SCR. 4,659,983, 4-21-87, Cl. 324-51.000.

Jacob, Peter, to Mediplast AB. Suction catheter. 4,648,871, 3-10-87, Cl. 604-149.000.

Jacob Schlaepfer & Co., AG: *See—*
Lauchenauer, Alfred E., 4,705,584, Cl. 156-79.000.

Jacobelli, Alain: *See—*
Doriath, Gerard; Hartemann, Pierre; and Jacobelli, Alain, 4,697,145, Cl. 324-244.000.

Jacober, Jeffrey M., to Sport Graphics, Inc. Backpack with removable insulated container. 4,706,856, 11-17-87, Cl. 224-151.000.

Jacobi, Dennis M.: *See—*
Peck, Michael C.; and Jacobi, Dennis M., 4,648,905, Cl. 106-24.000.

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Jacobina, Charles E., to Celotex Corporation, The. Polyisocyanurate foams derived from oxypropylated polyols and insulating structures therefrom. 4,692,477, 9-8-87, Cl. 521-174.000.

Jacobine, Anthony F.; and Glaser, David M., to Loctite Corporation. Polyol terminated silicones and derivatives thereof. 4,640,940, 2-3-87, Cl. 522-99.000.

Jacobowitz, Lawrence: *See—*
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Jacobs, Allen W. Process for the inclusion of a solid particulate component into aerosol formulations of inhalable nicotine. 4,635,651, 1-13-87, Cl. 131-270.000.

Jacobs, Alphonse F.; and Paxton, James R. Temperature and humidity control system. 4,711,294, 12-8-87, Cl. 165-19.000.

Jacobs, Alvin D., to Holtz, Leonard, a part interest. Glove-like waste disposal system. 4,645,251, 2-24-87, Cl. 294-1.300.

Jacobs, Alvin J.; and Gordon, Gerald M., to General Electric Company. Treatment for overcoming irradiation induced stress corrosion cracking in austenitic alloys such as stainless steel. 4,699,671, 10-13-87, Cl. 148-13.000.

Jacobs, Andrew: *See—*
Vallieres, Francois, 4,713,895, Cl. 36-1.500.

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Gounder, Raj N.; Shu, Chi-Fan; and Jacobs, Brian D., 4,635,071, Cl. 343-897.000.

Jacobs, Charles P.: *See—*
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Jacobs, David C.: *See—*
Coraluppi, Giorgio L.; Driscoll, John L.; Jacobs, David C.; Law, Edward K. H.; and Masson, Gerald M., 4,654,842, Cl. 370-16.000.

Jacobs, David R.: *See—*
Ladd, James E., Jr.; and Jacobs, David R., 4,647,240, Cl. 401-123.000.
Ladd, James E., Jr.; and Jacobs, David R., 4,652,162, Cl. 401-123.000.
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Jacobs, Edward H.: *See—*
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Jacobs, Gary R.; and Haeck, Paul J., to Von Duprin, Inc. Rack and pinion assembly. 4,658,664, 4-21-87, Cl. 74-422.000.

Jacobs, Gary R.: *See—*
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Jacobs, George S.: *See—*
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Jacobs, Glenn A.: *See—*
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Jacobs, Gordon M. Multiple output allpass switched capacitor filters. 4,716,388, 12-29-87, Cl. 333-173.000.

Jacobs, Hanno; Opara, Ulrich; and Selleschy, Franz, to Krautkramer-Branson, Inc. Method and system for generating and adjusting a predetermined quantity of mutually independent direct current voltages. 4,636,964, 1-13-87, Cl. 364-483.000.

Jacobs, Hans-Juergen: *See—*
Ehrig, Dietrich; and Jacobs, Hans-Juergen, 4,691,515, Cl. 60-526.000.

Jacobs, Harold, deceased: *See—*
Horn, Robert E.; and Jacobs, Harold, deceased, 4,636,751, Cl. 331-96.000.
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Jacobs, Harvey C. Constant speed control for positive displacement variable stroke hydraulic motor. 4,680,931, 7-21-87, Cl. 60-447.000.

Jacobs, Howard L., to B.F. Goodrich Company, The. Electrical conductor. 4,653,633, 3-31-87, Cl. 198-810.000.

Jacobs, Jochen: *See—*
Jeschke, Peter; Altenschoepfer, Theodor; Jacobs, Jochen; and Schumann, Klaus, 4,690,770, Cl. 252-99.000.

Jacobs, Joseph M.: *See—*
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Jacobs, Julia M.; Jacobs, Pierre A.; and Uytterhoeven, Jan B., to De Belgische Staat-l'Etat Belge. Process for obtaining ethylene from ethanol. 4,670,620, 6-2-87, Cl. 585-640.000.

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Jacobs Manufacturing Company, The: *See—*
Meistrick, Zdenek S.; and Price, Robert B., 4,664,070, Cl. 123-21.000.
Meistrick, Zdenek S.; and Quenneville, Raymond N., 4,706,624, Cl. 123-321.000.
Meistrick, Zdenek S.; and Price, Robert B., 4,706,625, Cl. 123-321.000.
Pearman, David J.; and Meistrick, Zdenek S., 4,688,384, Cl. 60-600.000.

Jacobs Manufacturing Company, Limited, The: *See—*
Derbyshire, George C., 4,684,139, Cl. 279-62.000.

Jacobs, Mark D. Can opener. 4,648,183, 3-10-87, Cl. 30-400.000.

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- Jacobs, Norman: *See—*
  - Goldman, Mark: Frank, Robert; Roberts, Craig; and Jacobs, Norman, 4,643,343, Cl. 224-275.000.
- Jacobs, Norman A.; and Wentzel, Robert M., to AT&T Teletype Corporation. Method for velocity adjustment of ink jet nozzles in a nozzle array. 4,704,675, 11-3-87, Cl. 346-1.100.
- Jacobs, Paul F.: *See—*
  - Finkel, Joel R.; and Jacobs, Paul F., 4,671,839, Cl. 156-257.000.
  - Finkel, Joel R.; Jacobs, Paul F.; Gustafson, Kenneth I.; and Green, William D., 4,678,322, Cl. 355-133.000.
- Jacobs, Paul J., to T. O. Plastics, Inc. Automatic loading tray for thin-walled plastic flower pots. 4,684,013, 8-4-87, Cl. 206-423.000.
- Jacobs, Paul L.: *See—*
  - Dunaway, J. C.; and Jacobs, Paul L., 4,686,824, Cl. 60-231.000.
- Jacobs, Paul T.; and Lin, Szu-Min, to Surgikos, Inc. Hydrogen peroxide plasma sterilization system. 4,643,876, 2-17-87, Cl. 422-23.000.
- Jacobs, Pierre: *See—*
  - Anton, Octavian; Jacobs, Pierre; Poncelet, Georges; and Jacques, Phillippe, 4,689,315, Cl. 502-241.000.
- Jacobs, Pierre A.; Tielen, Mia; and Uytterhoeven, Jan B., to Katholieke Universiteit Leuven. Process for the activation of silicious catalysts. 4,656,149, 4-7-87, Cl. 502-35.000.
- Jacobs, Pierre A.: *See—*
  - Jacobs, Julia M.; Jacobs, Pierre A.; and Uytterhoeven, Jan B., 4,670,620, Cl. 585-640.000.
- Jacobs, R. Wayne: *See—*
  - Rogers, Jerry W.; Rogers, Franklin R.; and Jacobs, R. Wayne, 4,658,448, Cl. 4-493.000.
- Jacobs, Ralph R.: *See—*
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- Jacobs, Ralph S., to Color Dynamics, Inc. Combination receptacle opener. 4,633,740, 1-6-87, Cl. 81-3.090.
- Jacobs, Richard. Preparing urethane polymer mixing isocyanate and premix of hydroxylated tertiary amine providing a crystalline polymer phase and polyol providing an amorphous polymer phase interdispersed with crystalline phase. 4,677,157, 6-30-87, Cl. 524-789.000.
- Jacobs, Stanley A. Container and lid. 4,674,644, 6-23-87, Cl. 215-320.000.
- Jacobs, Stephen D.; and Cerqua, Kathleen A., to University of Rochester, The. Optical apparatus using liquid crystals for shaping the spatial intensity of optical beams having designated wavelengths. 4,679,911, 7-14-87, Cl. 350-347.00E.
- Jacobs, Thomas A., to Seanav Corporation, The, a part interest. Network system for navigation lights. 4,647,929, 3-3-87, Cl. 340-985.000.
- Jacobsen, Allan, to G. W. Sprinkler A/S. Sprinkler unit. 4,657,085, 4-14-87, Cl. 169-43.000.
- Jacobsen, Finn, to Kamyr AB. Method for the treatment of pulp with liquid. 4,705,600, 11-10-87, Cl. 162-19.000.
- Jacobsen, Hans; and Jacobsen, Ole. Rain gauge of the tiltable spoon type. 4,644,786, 2-24-87, Cl. 73-171.000.
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- Jacobsen, Marvin A., to Con-Vey/Keystone, Inc. Continuous feeding apparatus. 4,640,655, 2-3-87, Cl. 414-119.000.
- Jacobsen, Ole: *See—*
  - Jacobsen, Hans; and Jacobsen, Ole, 4,644,786, Cl. 73-171.000.
- Jacobsen Research Corp.: *See—*
  - Jacobsen, Stephen C., 4,644,651, Cl. 30-251.000.
  - Jacobsen, Stephen C., 4,688,410, Cl. 70-458.000.
- Jacobsen, Stephen C., to Sarcos, Inc. Electric field machine. 4,642,504, 2-10-87, Cl. 310-308.000.
- Jacobsen, Stephen C., to Jacobsen Research Corp. Instrument for gripping or cutting. 4,644,651, 2-24-87, Cl. 30-251.000.
- Jacobsen, Stephen C., to Jacobsen Research Corp. Key holder. 4,688,410, 8-25-87, Cl. 70-458.000.
- Jacobsen, William A.; and Briggs, Richard L., to Westinghouse Electric Corp. Vacuum annealing of zirconium based articles. 4,636,267, 1-13-87, Cl. 148-133.000.
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- Jacobson, Alan R.; and Sund, Larry D., to Jacobson Brothers, Inc. Cable turntable assembly. 4,647,253, 3-3-87, Cl. 405-168.000.
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- Jacobson, Allan J.; Ho, Teh C.; Chianelli, Russell R.; Steger, John J.; and Montagna, Angelo A., to Exxon Research and Engineering Company. Amorphous sulfide catalysts of trivalent chromium and promoter metals and method of making same. 4,716,139, 12-29-87, C 502-167.000.
- Jacobson, Allan J.: *See—*
  - Ho, Teh C.; Chianelli, Russell R.; Jacobson, Allan J.; and Young Archie R., 4,698,145, Cl. 208-18.000.
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- Jacobson, Amnon, to Ispra Fibroptics Industries Herzlia Ltd. Manufac ture of optical fibre preforms. 4,715,875, 12-29-87, Cl. 65-3.110.
- Jacobson, Bernard, to Boston Biomedical Research Insitute. Ce proliferation inhibitor and method of preparation. 4,710,462, 12-1-8 Cl. 435-68.000.
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- Jacobson, Charles S., to Johnson Enterprises, Inc. Container fittin 4,665,940, 5-19-87, Cl. 137-212.000.
- Jacobson, David M., to John Fluke Mfg. Co., Inc. Method of an system for fast functional testing of random access memor 4,715,034, 12-22-87, Cl. 371-21.000.
- Jacobson, Dov, to Time Video Information Services, Inc. Analog colo selector. 4,695,832, 9-22-87, Cl. 340-709.000.
- Jacobson, Gunnard K.; and Trivedi, Nayankumar B., to Univers Foods Corporation. Yeast strains, method of production and use i baking. 4,643,901, 2-17-87, Cl. 426-62.000.
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- Jacobson, Jeff A.; and Lim, Walter K., to Very Incredible Produc Inc. Wrinkle removing solution and process for using sa 4,661,268, 4-28-87, Cl. 252-8.800.
- Jacobson, Kenneth A.; Daly, John W.; and Kirk, Kenneth L., to Unit States of America, Health and Human Services. Biologically acti xanthine derivatives. 4,696,932, 9-29-87, Cl. 514-263.000.
- Jacobson, Luke. Bass drum pedal. 4,691,613, 9-8-87, Cl. 84-422.00
- Jacobson, Mark H.: *See—*
  - Jason, Phillipp; and Jacobson, Mark H., 4,653,824, Cl. 339-37.00
- Jacobson, Michael B.: *See—*
  - Bloomquist, Darrel R.; Drennan, George A.; Lawton, Robert J. Opfer, James E.; and Jacobson, Michael B., 4,663,00 C 204-192.200.
- Jacobson, Milton D. Garment and liner combination. 4,715,0 12-29-87, Cl. 2-272.000.
- Jacobson, Peter E.; and Porter, Ryan S., to Sperry Corporation. Rota high power transfer apparatus. 4,650,266, 3-17-87, Cl. 339-5.00R.
- Jacobson, Ralph S. Plastic bag opening device. 4,698,051, 10-6-87, C 493-309.000.
- Jacobson, Richard M., to Rohm and Haas Company. Insecticidal aryl-3-aryl-4,5-dihydro-1h-pyrazole-1-carboxamides. 4,663,3 5-5-87, Cl. 514-403.000.
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- Jacobson, Stephen A. Semi-recumbent bicycle. 4,659,098, 4-21-87, C 280-281.0LP.
- Jacobson, Stephen E., to BOC Group, Inc., The. Preparation of hydr gen peroxide. 4,711,772, 12-8-87, Cl. 423-584.000.
- Jacobson, Theodore L.; and Hall, Charles P. Mattress which conform to body profile. 4,688,283, 8-25-87, Cl. 5-449.000.
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- Jacobson, Walter E., to Revere Corporation of America. Strain ga type platform sensor. 4,655,305, 4-7-87, Cl. 177-211.000.
- Jacobsson, Curt, to ASEA Aktiebolag. Root mean square measuri device for negative sequence current. 4,641,088, 2-3-87, C 324-86.000.
- Jacobsson, Kenth: *See—*
  - Kjelgaard, Tom; Hallberg, Anders; and Jacobsson, Ken 4,715,528, Cl. 229-123.100.
- Jacoby, Donald: *See—*
  - Mastriani, Dennis; Jacoby, Donald; Weise, Jeanne; Linick, Bru Marinho, John; and DeSantis, Charles M., 4,696,053, C 455-67.000.
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  - Ngo, Dat V.; and Jacoby, Elliot G., 4,646,203, Cl. 361-388.00
  - Rowen, Michael J.; Yuhasz, Stephen J.; Buehler, David L.; Jacob Elliot G.; and Spira, Joel S., 4,689,547, Cl. 323-239.000.
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- Jacoby, Stephen: *See—*
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Jacquel, Dominique: *See—*
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acquier, Marie-Oldile: *See—*
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Jaeger, Walter. Method for the transmission of informations and/or instructions. 4,655,421, 4-7-87, Cl. 246-167.00R.
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Tributsch, Helmut; Ennaoui, Ahmed; Jaegermann, Wolfram; and Fiechter, Sebastian, 4,649,227, Cl. 136-252.000.
Jaeggi, Franz-Josef, to Ciba-Geigy Corporation. Process for the preparation of 2-alkoxybenzosulfonamides. 4,709,092, 11-24-87, Cl. 564-89.000.
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Jaekel, Robert W.; and Ball, Dean M., to Abbott Laboratories. Optical readout for blood sample analysis. 4,672,038, 6-9-87, Cl. 435-291.000.
Jaekle, Don E., Jr.; and Grove, R. K. Liquid-propellant management system for rockets and space vehicles. 4,715,399, 12-29-87, Cl. 137-209.000.
Jaen, Juan C.; Wise, Lawrence D.; Tecle, Haile; and Bergmeier, Stephen C., to Warner-Lambert Company. 4-(1,2,5,6-Tetrahydro-1-alkyl-3-pyridinyl)-2-thiazolamines and 4-(hexahydro-1-alkyl-3-pyridinyl)-2-thiazolamines having anti-psychotic activity. 4,650,805, -17-87, Cl. 514-326.000.
Jaen, Juan C.; and Wise, Lawrence D., to Warner-Lambert Company. 4H-1-benzopyran-4-ones and their sulfur containing analogs. 4,678,787, 7-7-87, Cl. 514-253.000.
Jaen, Juan C.: *See—*
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Jaffe, Edward E.: *See—*
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Jaffe, Hal R. Camera with a border image producing device. 4,655,570, 4-7-87, Cl. 354-107.000.
Jaffe, James: *See—*
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Jaffe, Walter. Tubular article marking device. 4,662,094, 5-5-87, Cl. 40-316.000.
Jaffre, Robert; and Ropars, Yvon, to Etat Francais. Structure of surface effect ship with side walls. 4,714,041, 12-22-87, Cl. 114-67.00A.
Jagel, Kenneth I.: *See—*
Wan, Chung Z.; Dettling, Joseph C.; and Jagel, Kenneth I., 4,675,308, Cl. 502-304.000.
Wan, Chung-Zong; Dettling, Joseph C.; and Jagel, Kenneth I., 4,678,770, Cl. 502-304.000.
Jageler, Alfred H., to Amoco Corporation. Method and apparatus for obtaining selected samples of formation fluids. 4,635,717, 1-13-87, Cl. 166-250.000.
Jageler, Alfred H., to Standard Oil Company. Core retainer for sidewall core tools. 4,667,753, 5-26-87, Cl. 175-244.000.
Jagenberg AG: *See—*
Buschmann, Gerhard; and Muller, Georg, 4,638,657, Cl. 73-78.000.
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Hoffmann, Peter; Buschmann, Gerhard; Leichter, Hans; and Welp, Ewald, 4,676,094, Cl. 73-78.000.
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Sommer, Herbert, 4,651,672, Cl. 118-126.000.
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- Thievessen, Karl, 4,635,872, Cl. 242-72.00R.
- Thievessen, Karl; and Weiss, Peter, 4,681,274, Cl. 242-58.300.
- Wohlfeil, Gerhard, 4,706,603, Cl. 118-410.000.
- Zodrow, Rudolf; and Tomashauser, Josef, 4,692,201, Cl. 156-488.000.
- Zodrow, Rudolf; and Buchholz, Rainer, 4,697,691, Cl. 198-425.000.

Jager, Gerhard: *See—*

- Bockmann, Klaus; Jager, Gerhard; Brandes, Wilhelm; and Reinecke, Paul, 4,650,809, Cl. 514-383.000.
- Fauss, Rudolf; Lantzsch, Reinhard; Findeisen, Kurt; Jager, Gerhard; Hammann, Ingeborg; Becker, Benedikt; and Homeyer, Bernhard, 4,698,333, Cl. 514-63.000.
- Reinehr, Ulrich; Sasse, Klaus; Jager, Gerhard; and Radt, Walter, 4,663,365, Cl. 523-122.000.
- Reinehr, Ulrich; Buchel, Karl H.; Jager, Gerhard; Plempel, Manfred; and Radt, Walter, 4,670,336, Cl. 428-359.000.

Jager, Hans: *See—*

- Andorf, Paul; and Jager, Hans, 4,661,396, Cl. 428-217.000.

Jager, Heimo: *See—*

- Fleck, Harald; Hutter, Heinrich; and Jager, Heimo, 4,654,730, Cl. 360-96.500.

Jager, Horst, to Bayer Aktiengesellschaft. Disazo copper complex reactive dyestuffs. 4,659,806, 4-21-87, Cl. 534-625.000.

Jager, Horst: *See—*

- Wunderlich, Klaus; Harms, Wolfgang; Herd, Karl J.; and Jager, Horst, 4,665,179, Cl. 544-76.000.

Jager, Kornelis: *See—*

- De Wit, Hendrik J.; Brouha, Marcel; Enz, Ulrich E.; Jager, Kornelis; Van Der Borst, Albertus J. C.; and Turk, Gijsbertus W., 4,685,012, Cl. 360-125.000.

Jager, Kurt; Roscl., Philipp; Fischl, Rolf; and Wambsganss, Heinrich, to Brown, Boveri & Cie AG. Rotating rectifying device for the excitation of a synchronous machine. 4,670,678, 6-2-87, Cl. 310-68.00D.

Jager, Lothar: *See—*

- Froschl, Kurt; and Jager, Lothar, 4,654,731, Cl. 360-96.500.

Jager, Stewart C.: *See—*

- Mills, Russell C.; and Jager, Stewart C., 4,709,929, Cl. 273-402.000.

Jager, Tilo; Tonsmann, Armin; Habicht, Siegfried; and Hocker, Eitel, to Schuco Heinz Schurmann GmbH & Co. Device for fastening together the parts of a heat-insulated composite section. 4,646,408, 3-3-87, Cl. 29-243.500.

Jager, Tilo; Tonsmann, Armin; Habicht, Siegfried; and Hocker, Eitel, to Schuco Heinz Schurmann GmbH & Co. Method of assembling insulated rail sections. 4,662,054, 5-5-87, Cl. 29-451.000.

Jager, Wolfgang: *See—*

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Jagger, Janine C.; Pearson, Richard D.; and Guyenet, Patrice G., to University of Virginia Alumni Patents Foundation. The. Retractable safety needle. 4,676,783, 6-30-87, Cl. 604-171.000.

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Jaggle, Gunther; Kubach, Hans; and Paschke, Werner, to Robert Bosch GmbH. Electromagnetically actuatable valve. 4,666,087, 5-19-87, Cl. 239-451.000.

Jagielo, Joseph J.: *See—*

- Simonelli, James K.; Scheffel, Gary W.; and Jagielo, Joseph J., 4,687,181, Cl. 251-223.000.

Jagielski, Johannes, to J. Strobel & Sohne GmbH & Co. Chain-stitching and blind-stitching machine for point-sewing articles. 4,712,495, 12-15-87, Cl. 112-176.000.

Jago, John J., to Pilkington Brothers P.L.C. Gripper apparatus for stacking a batch of sheets. 4,673,325, 6-16-87, Cl. 414-103.000.

Jagos, Frantisek: *See—*

- Sorm, Miloslav; Vacha, Jiri; Ulbert, Karel; Jagos, Frantisek; Nespurek, Stanislav; Langpaul, Josef; Skalicky, Stanislav; Kensa, Jaromir; Zvonicek, Miroslav; and Drabek, Oldrich, 4,646,969, Cl. 239-106.000.

Jagsch, Karl-Heinz: *See—*

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Jaguar Cars Limited: *See—*

- Parsons, Bryan N. V., 4,674,361, Cl. 74-804.000.

Jahn, Dieter; Becker, Rainer; Keil, Michael; Richarz, Winfried; Siegel, Hardo; Spiegler, Wolfgang; and Wuerzer, Bruno, to BASF Aktiengesellschaft. Cyclohexane-1,3-dione derivatives and their use for controlling undesirable plant growth. 4,654,073, 3-31-87, Cl. 71-88.000.

Jahn, Dieter: *See—*

- Becker, Rainer; Jahn, Dieter; Schirmer, Ulrich; Keil, Michael; Wuerzer, Bruno; and Meyer, Norbert, 4,650,513, Cl. 71-88.000.
- Keil, Michael; Jahn, Dieter; Becker, Rainer; Goetz, Norbert; Wuerzer, Bruno; and Meyer, Norbert, 4,659,367, Cl. 91-90.000.
- Keil, Michael; Becker, Rainer; Goetz, Norbert; Jahn, Dieter; Spiegler, Wolfgang; and Wuerzer, Bruno, 4,668,275, Cl. 71-88.000.
- Keil, Michael; Schirmer, Ulrich; Jahn, Dieter; Becker, Rainer; Wuerzer, Bruno; and Meyer, Norbert, 4,692,553, Cl. 564-185.000.

Jahn, Hans-Georg, to Heidelberger Druckmaschinen AG. Device for applying medium after termination of the printing operation in a printing machine. 4,706,601, 11-17-87, Cl. 118-46.000.

Jahn-Held, Wilhelm: *See—*

- Lindorfer, Walter; Schulz, Walther; Wagner, Fritz; and Jahn-Held, Wilhelm, 4,663,039, Cl. 210-241.000.
- Lindorfer, Walter; and Jahn-Held, Wilhelm, 4,692,061, Cl. 405-128.000.

Jahn, Herbert; and Waedt, Gunter, to Siemens Aktiengesellschaft. Tower design for high-voltage systems. 4,710,850, 12-1-87, Cl. 361-333.000.

Jahn, Ulrich: *See—*

- Thiele, Kurt; Geissmann, Felix; Zirngibl, Ludwig; and Jahn, U rich, 4,668,786, Cl. 544-267.000.

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Jahnel, Klaus: *See—*

- Dressler, Helmut; Engenhart, Peter; Jahnel, Klaus; Kochendo Heinrich; Kuhn, Ulrich; Matthas, Karl H.; and Schuster, K 4,635,173, Cl. 362-294.000.

Jahnen, Ludwig; and Dahler, Manfred, to Bellaplast GmbH. Th walled stackable container lid. 4,703,857, 11-3-87, Cl. 206-503.0

Jahnke, Andreas, to Siemens Aktiengesellschaft. Magnetic field dev for a system for the acceleration and/or storage of electrica charged particles. 4,680,565, 7-14-87, Cl. 335-216.000.

Jahnke, Andreas; Ries, Gunter; and Meier, Konrad, to Siemens Ak gesellschaft. Apparatus for manufacturing a disc-shaped cur magnet coil. 4,694,868, 9-22-87, Cl. 140-92.100.

Jahnke, Andreas, to Siemens Aktiengesellschaft. Apparatus generat a magnetic field for a particle accelerator. 4,710,722, 12-1-87, C 328-234.000.

Jahnke, Andreas, to Siemens Aktiengesellschaft. Magnetic thin-fi head for a recording medium that can be magnetized vertic 4,710,838, 12-1-87, Cl. 360-125.000.

Jahnke, Bernd, to Aktiengesellschaft Brown, Boveri & Cie. Meta joining material. 4,678,635, 7-7-87, Cl. 420-449.000.

Jahnke, Frederick C., to Texaco Development Corp. Partial oxida apparatus. 4,647,294, 3-3-87, Cl. 48-69.000.

Jahnke, Richard W., to Lubrizol Corporation. The Alkenyl-substitu carboxylic acylating agent/hydroxy terminated polyoxyal reaction products and aqueous systems containing same. 4,659 4-21-87, Cl. 252-49.300.

Jahnke, Richard W.: *See—*

- Forsberg, John W.; and Jahnke, Richard W., 4,661,27 252-49.300.

Jahnke, Serge, to Framatome & Cie. Wiring installation above the of a nuclear reactor vessel for connection of electric dev 4,683,106, 7-28-87, Cl. 376-259.000.

Jahns, Hans O.: *See—*

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Jahns, Thomas M., to General Electric Company. Flux-weaken regime operation of an interior permanent magnet synchron motor. 4,649,331, 3-10-87, Cl. 318-798.000.

Jahns, Werner, to Mannesmann Ag. Conveyer system with bracing facility. 4,703,844, 11-3-87, Cl. 198-367.000.

Jahoda, Diane. Convertible book box/book rest and foldable ta therefor. 4,650,111, 3-17-87, Cl. 229-103.000.

Jahoda, Peter: *See—*

- Oliver, Dell B.; and Jahoda, Peter, 4,634,637, Cl. 428-622.00

Jahr, Ronald S.; and Cowell, Thomas H., to Systems and Serv Incorporated. Utility usage data and event data acquisition sys 4,707,852, 11-17-87, Cl. 379-107.000.

Jaicks, John R. Endocervical curette system. 4,641,662, 2-10-8 128-757.000.

Jaicks, John R. Anti-herpes modality system. 4,664,104, 5-12-8 128-132.00R.

Jaicks, John R., to Jaicks, John R. Animal proof storage cont apparatus. 4,666,054, 5-19-87, Cl. 220-1.00T.

Jaillet, Andre, to Socalfran. Pneumatic spring provided with pos detection means. 4,667,940, 5-26-87, Cl. 267-64.110.

Jaillet, Georges: *See—*

- Jaillet, Jeannine; and Jaillet, Georges, 4,709,827, Cl. 220-4.00A.

Jaillet, Jeannine; and Jaillet, Georges. Home container. 4,70 12-1-87, Cl. 220-4.00A.

Jailor, John J.: *See—*

- Edejer, Merardo P.; Ford, Roger S.; Jailor, John J.; and Michael J., 4,692,754, Cl. 340-671.000.

Jaime, Gil: *See—*

- Peisker, Glenn; Christiansen, Keith; and Jaime, Gil, 4,689, 264-159.000.

Jain, Avanindra: *See—*

- Demer, Linda L.; Jain, Avanindra; Raizner, Albert E.; and Har Craig J., 4,651,738, Cl. 128-344.000.

Jain, Babu L.; Jain, Pardeep K.; and Briner, Michael S., to Go Temperature compensated complementary metal-insulator-se ductor oscillator. 4,714,901, 12-22-87, Cl. 331-176.000.

Jain, Chandra P., to Beckman Instruments, Inc. Method and diazo reagent for detecting bilirubin. 4,672,041, 6-9-87, Cl. 436-

Jain, Kailash C.; and MacIver, Bernard A., to General Motors Co tion. Method for patterning silicon dioxide with high resol three dimensions. 4,652,334, 3-24-87, Cl. 156-628.000.

Jain, Mahendra K.: *See—*

- Apitz-Castro, Rafael J.; and Jain, Mahendra K., 4,665, 514-420.000.

Jain, Nemichand B.: *See—*

- DeCrosta, Mark T.; Jain, Nemichand B.; and Rudnic, Edw 4,666,705, Cl. 424-482.000.

Jain, Pardeep K.: *See—*

- Jain, Babu L.; Jain, Pardeep K.; and Briner, Michael S., 4,7 Cl. 331-176.000.

Jaisle, Richard F.; Mollmann, Henry C.; Albers, Martha J.; and Be James H., to Formica Corporation. Decorative laminates and m of producing same. 4,636,443, 1-13-87, Cl. 428-481.000.

Jaissle, Hans-Ulrich; Hofmann, Manfred; and Geiger, Dietrich, to Hueller Hille GmbH. Arrangement for exchanging tool holders in working units for working of workpieces. 4,656,421, 3-3-87, Cl. 29-568.000.

Jaitly, Kapil D.: *See*—

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Jakab, Gyula, to Northern Telecom Limited. Fault protection for integrated subscriber line interface circuits. 4,661,979, 4-28-87, Cl. 379-412.000.

Jakacki, Edwin J.; Ogle, Larry G.; Landwer, Jonathan C.; and Andersen, James C., to United States Gypsum Company. Ready-mixed, setting-type cementitious composition having separately packaged accelerator. 4,661,161, 4-28-87, Cl. 106-112.000.

Jaklitsch, Anna: *See*—

Collins, Christine G.; Pankey, Susan; and Jaklitsch, Anna, 4,652,529, Cl. 436-92.000.

Jakob, Gert: *See*—

Bentz, Willy; and Jakob, Gert, 4,654,625, Cl. 338-164.000.

Jakob, Hans: *See*—

Thomas, Hermann; Herd, Josef; and Jakob, Hans, 4,671,154, Cl. 83-698.000.

Jakob, Lothar. Loose-leaf binder for stacks of sheets. 4,681,473, 7-21-87, Cl. 402-15.000.

Jakobec, Franz: *See*—

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Jakobi, Wilhelm: *See*—

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Jakobs, Ewald: *See*—

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Altmeyer, Werner; Jakobs, Ewald; and Meier, Friedrich, 4,710,078, Cl. 409-233.000.

Jakobs, Hartmut. Scraper device for conveyor belts. 4,664,250, 5-12-87, Cl. 198-499.000.

Jakobsen, Kjell M.; and Nilsson, Claes T., to PLM AB. Apparatus for producing a biaxially oriented container of polyethylene terephthalate or similar material. 4,701,121, 10-20-87, Cl. 425-526.000.

Jakobsen, Kjell M.: *See*—

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Jakobsmeyer, Helmut: *See*—

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Jakobsson, Leif. Heat accumulator. 4,714,821, 12-22-87, Cl. 219-326.000.

Jakobsson, Maja; Skjoldebrand, Christina; and Sjoholm, Ingegerd, to Karakas - Kiviks Fruktodlingar & Musteri Aktiebolag. Dehydrofreezing of peeled apple pieces. 4,647,469, 3-3-87, Cl. 426-524.000.

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Engel, Jurgen; Jakovlev, Vladimir; Nickel, Bernd; Thiemer, Klaus; and Scheffler, Gerhard, 4,643,995, Cl. 514-210.000.

Jaksa, Istvan: *See*—

Kelemen, Agnes; Jaksa, Istvan; Stefko, Bela; and Udvardy Nagy nee Cserey Pechany, Eva, 4,657,859, Cl. 435-86.000.

Jaksa, Tibor S.; Norton, Richard F.; Hall, Kenneth W.; Butler, Stephen J.; Chicoine, Craig C.; and Bienz, Wilford L., to Caterpillar Inc. Method of producing interference connection between a fluid line and a fluid injector. 4,715,103, 12-29-87, Cl. 29-156.40R.

Jakubas, Gary, to Taurus Precision, Inc. Locking device for two-holed drums and containers. 4,655,060, 4-7-87, Cl. 70-230.000.

Jakubczak, Eugene R., to Dow Corning Corporation. Multiple envelope tissue expander device. 4,651,717, 3-24-87, Cl. 128-344.000.

Jakubowicz, Michael: *See*—

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Jakubowski, John A., to Calgon Corporation. Admixtures of 2-bromo-2-bromomethylglutaronitrile and a formaldehyde donor. 4,655,815, 4-7-87, Cl. 71-67.000.

Jakubzick, Marcelo E., to Allied Corporation. Adaptive filter for aircraft navigation receiver. 4,654,811, 3-31-87, Cl. 364-572.000.

Jakusch, Helmut: *See*—

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Jalaguier, Jean-Pierre: *See*—

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alava, Antti, to Nakovammaisten Keskusliitto ry. Device for sending and receiving a message. 4,713,495, 12-15-87, Cl. 178-2.00R.

albert, Ronald L.; and Grant, Thomas S., to Borg-Warner Chemicals, Inc. Carboxylated phenylene ether resins. 4,654,405, 3-31-87, Cl. 525-391.000.

alics, George, to Goodyear Tire & Rubber Company, The. Randomizers for use in solution polymerizations. 4,647,634, 3-3-87, Cl. 526-174.000.

allen, Gale A.; and Bonnie, Gene P., to Control Data Corp. Bubble memory bias field structure. 4,692,898, 9-8-87, Cl. 365-27.000.

alon, Michel. Security fibers and other materials made luminescent by a dyeing process, processes for their manufacture and their applications. 4,655,788, 4-7-87, Cl. 8-648.000.

alovec, Charles: *See*—

Green, Timothy; Kaufman, Harry; and Jalovec, Charles, 4,660,737, Cl. 220-410.000.

Jalovec, Lee J.: *See*—

Holte, Timothy M.; and Jalovec, Lee J., 4,704,036, Cl. 368-120.000.

Jamar, Patrick: *See*—

Causse D'Agraives, Bertrand; Mathieu, Janny; and Jamar, Patrick, 4,677,435, Cl. 340-825.310.

Jambotkar, Chakrapani G., to International Business Machines Corporation. Method for improving the planarity and passivation in a semiconductor isolation trench arrangement. 4,663,832, 5-12-87, Cl. 29-576.00W.

Jambotkar, Chakrapani G.; and Renbeck, Robert B., to International Business Machines Corporation. Fabrication of insulated gate gallium arsenide FET with self-aligned source/drain and submicron channel length. 4,689,869, 9-1-87, Cl. 437-44.000.

James A. Rhodes & Associates: *See*—

Wren, Michael; Lantz, Paul W.; Acock, George W., Jr.; and Rhodes, James A., 4,696,133, Cl. 52-80.000.

James, Barry. Interlocking plastic shelving system. 4,706,576, 11-17-87, Cl. 108-111.000.

James, Barry R., to Merkle Engineers, Inc. Refractory curtain wall. 4,638,617, 1-27-87, Cl. 52-474.000.

James, Brian R.; Li-Lee, Chung; Lilga, Michael A.; and Nelson, David A., to Battelle Memorial Institute. Process for recovery of hydrogen and abstraction of sulfur. 4,693,875, 9-15-87, Cl. 423-243.000.

James C. Barber and Associates, Inc.: *See*—

Barber, James C., 4,649,035, Cl. 423-317.000.

Barber, James C., 4,656,020, Cl. 423-322.000.

Barber, James C., 4,670,240, Cl. 423-322.000.

James, Claude: *See*—

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Fabre, Jean-Louis; Farge, Daniel; James, Claude; and Lave, Daniel, 4,684,658, Cl. 514-338.000.

James, David E.; Nowicki, Neal R.; and McCoy, Robert W., to Amoco Corporation. Method for monitoring the fluorescence of 4-carboxy-o-terphenyl in crude terephthalic acid. 4,652,674, 3-24-87, Cl. 562-414.000.

James, David R., to James Industries Limited. Invalid hoist. 4,633,538, 1-6-87, Cl. 5-86.000.

James, David R., to James Industries Limited. Lifting slings. 4,656,679, 4-14-87, Cl. 5-81.00R.

James, David R., to James Industries Limited. Invalid hoists. 4,680,819, 7-21-87, Cl. 5-86.000.

James, David R., to James Industries Limited. Toilet aid. 4,685,157, 8-11-87, Cl. 4-254.000.

James, David R., to Impro Limited. Invalid hoists. 4,703,523, 11-3-87, Cl. 5-83.000.

James, David R., to Impro Limited. Invalid hoists. 4,712,257, 12-15-87, Cl. 5-83.000.

James, David R., to James Industries Limited. Toilet aids. 4,715,069, 12-29-87, Cl. 4-254.000.

James, David V., to Hewlett-Packard Company. Method and apparatus for performing variable length data read transactions. 4,703,418, 10-27-87, Cl. 364-200.000.

James, Donald R.: *See*—

Buren, Lawrence L.; James, Donald R.; Randolph, Barney J.; Teach, Eugene G.; Tilles, Harry; and Walker, Francis H., 4,695,314, Cl. 71-100.000.

James G. Biddle Company: *See*—

Reynolds, Peter H., 4,646,248, Cl. 364-483.000.

James, Granville C.: *See*—

Brooks, Derek J.; and James, Granville C., 4,643,483, Cl. 299-81.000.

James Hardie Brakes Pty. Limited: *See*—

Rees, James G., 4,676,347, Cl. 188-250.00G.

James, Henry E.: *See*—

Daus, John J., Jr.; and James, Henry E., 4,648,734, Cl. 403-170.000.

James Howden Australia Pty. Limited: *See*—

Stephenson, Robert G., 4,637,826, Cl. 55-304.000.

James Howden & Company Limited: *See*—

Bassett, Max, 4,688,827, Cl. 285-2.000.

Cooper, James; and Watson, Robert K., 4,689,076, Cl. 75-10.610.

Jamieson, Peter M., 4,710,101, Cl. 416-32.000.

Wilson, Robert R., 4,648,801, Cl. 416-171.000.

James Industries Inc.: *See*—

Cingone, James, 4,656,754, Cl. 33-507.000.

James Industries Limited: *See*—

James, David R., 4,633,538, Cl. 5-86.000.

James, David R., 4,656,679, Cl. 5-81.00R.

James, David R., 4,680,819, Cl. 5-86.000.

James, David R., 4,685,157, Cl. 4-254.000.

James, David R., 4,715,069, Cl. 4-254.000.

Ruiz, Robert, 4,634,183, Cl. 297-433.000.

James, Jack L., to Lee Pharmaceuticals, Inc. Adhesive compositions for tooth enamel. 4,645,456, 2-24-87, Cl. 433-217.100.

James, James R., to Accuratio Systems, Inc. Reaction injection molding pressure developing and balancing circuit. 4,681,137, 7-21-87, Cl. 137-568.000.

James, James R., Sr.: *See*—

Schleicher, John K.; and James, James R., Sr., 4,700,870, Cl. 222-63.000.

James, Jawana J.: *See*—

Singh, Jitendra P.; James, Jawana J.; and Picciolo, John J., 4,647,547, Cl. 501-103.000.

James, John: *See*—

Wu, Joseph C.; Law, Yee-Shing; and James, John, 4,710,970, Cl. 455-113.000.

- James, Keith: *See—*
  - Fisher, Robert G.; James, Keith; and Pring, Graham M., 4,672,081, Cl. 523-109.000.
- James, Kenneth S. Smoke detector-activated door seal. 4,706,413, 11-17-87, Cl. 49-477.000.
- James, Leland E., to International Business Machines Corporation. Processor-assisted communication system using tone-generating telephones. 4,650,927, 3-17-87, Cl. 379-96.000.
- James, Leonard E.; Fisher, William B.; Crescentini, Lamberto; and Browning, Joseph M., to Allied Corporation. Oxidation of ammonia over a mixed catalyst bed of cobalt and aluminum oxides. 4,692,321, 9-8-87, Cl. 423-404.000.
- James, Lewis G.: *See—*
  - Jelinek, Ross R.; Fraas, Robert R.; Stein, Richard M.; and James, Lewis G., 4,703,925, Cl. 271-11.000.
- James, Mark: *See—*
  - Hyatt, Michael; and James, Mark, 4,674,141, Cl. 5-132.000.
- James, Michael J., to Global Castors Limited. Braked castors. 4,664,231, 5-12-87, Cl. 188-1.120.
- James, Michael J., to Global Castors Limited. Dual-wheel casters with positive lock mechanism. 4,681,192, 7-21-87, Cl. 188-1.120.
- James, Paul, to Baldwin Hardware Corporation. Mortise lock having secured stops. 4,674,776, 6-23-87, Cl. 292-40.000.
- James, Raymond A.: *See—*
  - Showers, David F.; and James, Raymond A., 4,690,433, Cl. 283-1.00B.
- James, Raymond E., to Brambles Industries, Ltd. Powered pallet repair tool. 4,676,000, 6-30-87, Cl. 30-180.000.
- James, Richard A.: *See—*
  - Gallagher, Nicholas D.; Sternasty, Richard S.; and James, Richard A., 4,698,248, Cl. 428-41.000.
- James River Corporation: *See—*
  - Bouchette, Michael P., 4,692,374, Cl. 428-288.000.
  - Kennard, Gregory J.; and Dunkerly, Cedric A., II, 4,636,418, Cl. 428-110.000.
  - Manning, James H.; and Dunkerly, Cedric A., II, 4,634,621, Cl. 428-110.000.
  - Manning, James H.; and Sorenson, Wayne P., 4,637,949, Cl. 428-110.000.
  - Maroszek, Raymond V., 4,661,671, Cl. 219-10.55E.
  - Moser, Donald, 4,655,939, Cl. 210-799.000.
  - Seiferth, Oscar E., 4,641,005, Cl. 219-10.55E.
- James River Corporation of Nevada: *See—*
  - Krill, Wayne V.; Taylor, Richard P.; and Wong, Thomas, 4,688,335, Cl. 34-41.000.
  - Weldon, Scott B., 4,689,119, Cl. 162-281.000.
- James River Corporation of Virginia: *See—*
  - VanderLugt, Thomas, 4,648,536, Cl. 225-43.000.
- James River Graphics: *See—*
  - Lubianez, Ronald P.; and Bennett, Everett W., 4,656,087, Cl. 428-323.000.
  - Suchy, Jan B., 4,654,291, Cl. 430-170.000.
- James River Graphics, Inc.: *See—*
  - Arfaei, Ahmad; and Bennett, Everett W., 4,656,115, Cl. 430-170.000.
  - Bennett, Everett W.; and Suchy, Jan B., 4,666,811, Cl. 430-74.000.
  - Desjarlais, Robert C., 4,642,383, Cl. 568-48.000.
  - Hodgins, George R., 4,703,000, Cl. 430-493.000.
- James River-Norwalk, Inc.: *See—*
  - Bohrer, Timothy H.; Pawlowski, Thomas D.; and Brown, Richard K., 4,678,882, Cl. 219-10.55E.
  - Cheshire, James O.; Marinack, Robert J.; Van den Akker, Johannes A.; and Lindgren, Douglas L., 4,686,006, Cl. 162-336.000.
  - Schulz, Galyn A., 4,659,608, Cl. 428-171.000.
  - Schulz, Werner, 4,706,873, Cl. 229-1.50B.
- James Rivers Corporation: *See—*
  - Bhat, Dinesh M., 4,654,980, Cl. 34-12.000.
- James, Robert; and Malka, Jacob H., to Allied Corporation. Synchro/-resolver shaft angle converter apparatus. 4,703,307, 10-27-87, Cl. 340-347.0SY.
- James, Ronald N.: *See—*
  - Buck, David A.; and James, Ronald N., 4,700,787, Cl. 173-164.000.
- James, Stephanie L.; and Sher, Alan, to United States of America, Health and Human Services. Isolated, soluble immunogen against *Schistosoma mansoni* and a method of vaccination employing same. 4,656,033, 4-7-87, Cl. 424-88.000.
- James, Steven D.: *See—*
  - Higashi, Robert E.; James, Steven D.; Johnson, Robert G.; and Satren, Ernest A., 4,682,503, Cl. 73-755.000.
- James, Steven P.; Karr, Roger W.; and Swanson, Gary L. Apparatus for slurrifying snow-debris. 4,697,572, 10-6-87, Cl. 126-343.50R.
- James, Thomas A.: *See—*
  - Sanderson, Robert A.; and Crosby, Gaius P., 4,704,970, Cl. 109-73.000.
  - Spratt, Kenneth, 4,679,415, Cl. 70-118.000.
- James, Timothy W.; and Wyman, David. Cold plate refrigeration method and apparatus. 4,712,387, 12-15-87, Cl. 62-434.000.
- James, Tracye V. Cake holder. 4,705,163, 11-10-87, Cl. 206-45.320.
- James, Wesley, to Micronic Interface Technologies. Electric power measurement system and hall effect based electric power meter for use therein. 4,700,188, 10-13-87, Cl. 340-870.030.
- James, Winthrop. Worm gear drive. 4,665,763, 5-19-87, Cl. 74-425.000.
- Jamesbury Corporation: *See—*
  - Bregman, Arie P.; Collette, Ronald J.; and Currier, Edward J., 4,645,180, Cl. 251-360.000.
- Jameson, Calvin R.; and Ramazzotti, Dario J., to Nordson Corporati Hot melt foam adhesive system. 4,679,710, 7-14-87, Cl. 222-190.00
- Jameson, Graeme J., to University of Newcastle Research Associ Limited, The. Flotation method. 4,668,382, 5-26-87, Cl. 209-164.00
- Jameson, Samuel M.: *See—*
  - Genereaux, Eugene P.; Jameson, Samuel M.; and Brooks, Timothy K., 4,696,460, Cl. 269-6.000.
- Jamestown Holdings Pty. Ltd.: *See—*
  - Greethead, Geoffrey F., 4,650,681, Cl. 426-19.000.
- Jamet, Claude: *See—*
  - Dabat, Robert; and Jamet, Claude, 4,639,178, Cl. 413-26.000.
- Jamet, Daniel: *See—*
  - Oguey, Claude; Jamet, Daniel; and Berreby, Alain, 4,645,294, C 350-96.150.
  - Petit, Andre; Penicaud, Etienne; Le Coz, Gerard; and Jamet, Daniel, 4,703,394, Cl. 361-413.000.
- Jamieson, J. Scott: *See—*
  - Spence, Scott L.; Hayes, Thomas E.; and Jamieson, J. Scott, 4,677,357, Cl. 318-335.000.
- Jamieson, Jon V.: *See—*
  - Burke, Ken V.; Jamieson, Jon V.; and Keller, Ernie, 4,693,65 C 414-131.000.
- Jamieson Manufacturing Company, Inc.: *See—*
  - Kesselring, Wolfgang, 4,701,120, Cl. 425-369.000.
- Jamieson, Peter B.: *See—*
  - Lyons, Thomas D.; and Jamieson, Peter B., 4,707,435, C 430-494.000.
- Jamieson, Peter M., to James Howden & Company Limited. Wi turbine. 4,710,101, 12-1-87, Cl. 416-32.000.
- Jamieson, Robert S. Sail system for sailboards, and boardsailing apparatus and method. 4,646,670, 3-3-87, Cl. 114-102.000.
- Jamieson, Robert S., to United States of America, National Aeronau and Space Administration. Rotary stepping device with memory metal actuator. 4,665,334, 5-12-87, Cl. 310-306.000.
- Jamieson, William B.: *See—*
  - Baker, Stephen R.; Jamieson, William B.; and Todd, A 4,665,189, Cl. 548-252.000.
- Jamiolkowski, Dennis D.; and Shalaby, Shalaby W., to Ethicon, In Surgical articles of copolymers of glycolide and ε-caprolactone an methods of producing the same. 4,700,704, 10-20-87, Cl. 128-335.5
- Jamiolkowski, Dennis D.: *See—*
  - Koelmel, Donald F.; Jamiolkowski, Dennis D.; Shalaby, Shala W.; and Bezwada, Rao S., 4,649,921, Cl. 128-335.500.
  - Shalaby, Shalaby W.; and Jamiolkowski, Dennis D., 4,689,424, C 560-061.000.
- Jamison, Albert L. Modular display structures. 4,667,833, 5-26-87, C 211-198.000.
- Jamison, Stephen A.: *See—*
  - Cirillo, Nicholas C., Jr.; Helix, Max J.; and Jamison, Stephen A 4,662,058, Cl. 29-571.000.
- Jamison, Timothy. Anti-theft device, is particular for a garment-hange 4,685,572, 8-11-87, Cl. 211-4.000.
- Jamison, Warren E. Intercalated transition metal based solid lubricant composition and method of so forming. 4,647,386, 3-3-87, C 252-25.000.
- Jamonet, Bernard; Rigouard, Alain; Bouchez, Jean-Pierre; and D Jean, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploita tion des Procedes Georges Claude. Waste water sludge thicken with odor control. 4,711,721, 12-8-87, Cl. 210-607.000.
- Jampro Antennas, Inc.: *See—*
  - Mahnad, Ali R., 4,668,956, Cl. 343-789.000.
- Jan, Didier: *See—*
  - Bourgeois, Aline; and Jan, Didier, 4,675,853, Cl. 367-88.000.
- Jan, Yih-Min: *See—*
  - Bseisu, Amjad A.; Jan, Yih-Min; and Schuh, Frank J., 4,715,451, C 175-40.000.
- Janashak, Robert J.; Felice, Christopher G.; and Akeel, Hadi A., GMF Robotics Corporation. Method and apparatus for automat filling of a container with a fluid. 4,708,175, 11-24-87, Cl. 141-1.00
- Janatka, Karel: *See—*
  - Gavaghan, Thomas J.; Boucher, Paul D.; and Janatka, Kar 4,637,602, Cl. 271-238.000.
- Janatpour, Mojtaba; and Shafer, Sheldon J., to General Electric Co pany. Process for making diaryl carbonates. 4,697,034, 9-29-87, C 558-274.000.
- Jancis, Elmar H.; and Stott, Paul E., to Uniroyal Chemical Compa Inc. Phenylenediamine solubilizer for dinitrophenol in aroma solvent. 4,664,845, 5-12-87, Cl. 252-401.000.
- Jancso, Sandor: *See—*
  - Nagy, Imre Z.; Emri, Zsuzsanna; Jancso, Sandor; Csernus, I and Balint, Janos, 4,661,618, Cl. 560-62.000.
- Jancsovics, Istvan. Method for leakproofing building walls, as well a insertion element for implementing the method. 4,686,810, 8-1 Cl. 52-743.000.
- Janda, Ralf; and Eppinger, Bernhard, to Kulzer & Co. GmbH. Photo lymerizable adhesion promoting dental composition. 4,63 1-13-87, Cl. 522-14.000.
- Janda, Ralf; and Eppinger, Bernhard, to Kulzer & Co. GmbH. Photo lymerizable phosphate-containing adhesion promoting dental com sition. 4,640,936, 2-3-87, Cl. 522-14.000.
- Jandeleit, Otto: *See—*
  - Agethen, Heinrich; Gesenhues, Paul; Radisch, Helmer; Jandel Otto; and Schafer, Wolfgang, 4,643,944, Cl. 428-349.000.
- Jandeska, William F., Jr.; and Rezhets, Vadim, to General Mot Corporation. Wear resistant iron powder article. 4,678,510, 7 Cl. 75-244.000.

Jandik, Petr: *See*—
- Jones, William R.; Heckenberg, Allan L., and Jandik, Petr, 4,699,718, Cl. 210-659.000.

Jandovitz, John S.: *See*—
- Hohnstein, Dean H., Jandovitz, John S., and Lehoczky, Kalman N., 4,673,835, Cl. 310-217.000.

Jandrasi Frank J., to Triten Corporation. Valve. 4,693,452, 9-15-87, Cl. 251-329.000.

Jandrasi, Frank J.: *See*—
- Baumgartner, Gary J.; Jandrasi, Frank J.; and Post, Arthur J., Jr., 4,667,731, Cl. 165-88.000.

Jandy Industries: *See*—
- Falconer, Ralph A., 4,681,139, Cl. 137-537.000.
- Johnson, Bruce R., and Falconer, Ralph A., 4,691,732, Cl. 137-268.000.

Jane Cabagnero, Ramon. Children's push-chair or stroller. 4,643,445, 2-17-87, Cl. 280-644.000.

Janecek, Kenneth F.: *See*—
- Davis, Steven S., Mueller, Max A., and Janecek, Kenneth F., 4,697,511, Cl. 100-37.000.

Janes, Norman F.: *See*—
- Elliott, Michael; Janes, Norman F.; and Elliott, Richard L., 4,668,701, Cl. 514-531.000.
- Elliott, Michael; Janes, Norman F.; and Elliott, Richard L., 4,668,702, Cl. 514-531.000.
- Elliott, Michael; Janes, Norman F., and Khambay, Bhupinder P. S., 4,6[illegible]44, Cl. 514-531.000.
- Elliott, Michael; Janes, Norman F.; and Khambay, Bhupinder P. S., 4,713,392, Cl. 514-464.000.

Janes, Roderick S., to Lucas Industries public limited company. Control for a stepper motor or other synchronous motor. 4,700,120, 10-13-87, Cl. 318-696.000.

Janes, Thomas A., to Dresser Industries, Inc. Antenna construction for well logging of subsurface earth formations. 4,651,100, 3-17-87, Cl. 324-338.000.

Janes, Thomas A., to Dresser Industries, Inc. Method and apparatus for dielectric well logging of subsurface earth formations with a lumped constant antenna. 4,678,997, 7-7-87, Cl. 324-341.000.

Janesick, James R.: *See*—
- Goss, Willis C., and Janesick, James R., 4,669,882, Cl. 356-350.000.

Janetzke, Helmut; Kauff, Helmut; and Stocker, Herbert, to Robert Bosch GmbH. System for regulating rotary speed of an internal combustion engine. 4,658,783, 4-21-87, Cl. 123-339.000.

Janetzke, Helmut: *See*—
- Cao, Chi-Thuan; Janetzke, Helmut; Cordes, Henning; and Kauff, Helmut, 4,677,560, Cl. 364-431.070.

Jang, Marco. Measuring device for canned powdered product. 4,705,196, 11-10-87, Cl. 222-439.000.

Jang, Young H. Combined key and combination lock. 4,694,670, 9-22-87, Cl. 70-303.00R.

Janhonen, Veikko I. Packaging bag with selectively secured reinforcing layer. 4,674,129, 6-16-87, Cl. 383-119.000.

Janiaud, Andre M. C., to Tubauto. Articulation of the seat back of a seat for various vehicles. 4,659,146, 4-21-87, Cl. 297-367.000.

Janiaud, Denis: *See*—
- Fima, Henri; and Janiaud, Denis, 4,710,668, Cl. 310-323.000.

Janich, Karl: *See*—
- Marker, Hannes; Janich, Karl; and Huss, Otto, 4,665,852, Cl. 114-98.000.

Janicka, Johannes; Jakobi, Wilhelm; Durselen, Heinz; and Meyer, Gunter, to Krupp Koppers GmbH. Method of reducing NO_x component of flue gas in heating coking ovens, and an arrangement of coking oven for carrying out the method. 4,704,195, 11-3-87, Cl. 201-41.000.

Janiel, Peter A.: *See*—
- Gartner, Georg F., and Janiel, Peter A., 4,659,591, Cl. 427-253.000.
- Gartner, Georg F., Janiel, Peter A., and Lydtin, Hans-Jurgen, 4,713,259, Cl. 427-39.000.

Janietz, Peter: *See*—
- Fait, Martin; Gunther, Thomas; Janietz, Peter; Moritz, Werner; Muller, Lothar; and Wellner, Hans, 4,699,806, Cl. 427-126.100.

Janiga, Eugene R., to Masonite Corporation. Lignosulfonate-phenol-formaldehyde resin binder in sheet material and method of making said sheet material. 4,701,383, 10-20-87, Cl. 428-527.000.

Janisse, Dwight C.: *See*—
- Breining, Frank E., and Janisse, Dwight C., 4,672,234, Cl. 307-147.000.

aniszewski, Grzegorz; and Sahlmen, Thomas, to AB Volvo. Motor, brake and bearing controlled hill holder. 4,676,354, 6-30-87, Cl. 192-0.044.

aniszewski, Grzegorz K., to AB Volvo. Motor vehicle clutch for a mechanical, multiple-speed automatic transmission. 4,697,677, 10-6-87, Cl. 192-48.910.

anitschke, Lothar: *See*—
- Martin, Roland; and Janitschke, Lothar, 4,656,272, Cl. 544-197.000.

anitz, Bernt, to A/S Moss Glasveark. Device for testing of containers as to leakage or defects. 4,708,014, 11-24-87, Cl. 73-37.000.

anka, John C.; Schora, Frank C., and Knowlton, Ted M., to Hycrude Corporation. Solids dewatering apparatus and process. 4,701,266, 10-20-87, Cl. 210-803.000.

anke, Donald E.; and Linstromberg, William J., to Whirlpool Corporation. Over-temperature indicator device for freezers. 4,649,854, 3-17-87, Cl. 116-216.000.

anke, Donald E., to Whirlpool Corporation. Refrigerator temperature and defrost control. 4,663,941, 5-12-87, Cl. 62-156.000.

Janke, Donald E., to Whirlpool Corporation. Temperature responsive baffle control circuit for a refrigerator. 4,682,474, 7-28-87, Cl. 62-187.000.

Janke, Donald E.; and Linstromberg, William J., to Whirlpool Corporation. Adaptive defrost control for a refrigerator. 4,689,965, 9-1-87, Cl. 62-155.000.

Janke, Donald E., and Linstromberg, William J., to Whirlpool Corporation. Alarm for a refrigerator. 4,707,684, 11-17-87, Cl. 340-530.000.

Janke, Donald E.: *See*—
- Linstromberg, William J.; and Janke, Donald E., 4,688,393, Cl. 62-187.000.

Jankewitz, Axel, to A. W. Faber-Castell GmbH & Co. Nail coating material and device for applying the same. 4,666,709, 5-19-87, Cl. 424-61.000.

Jankkila, Martti J.: *See*—
- Honkaniemi, Matti E.; Mustikka, Lauri A.; Jankkila, Martti J.; Hokkanen, Pentti O.; Heikkila, Risto M.; and Lilja, Launo L., 4,705,474, Cl. 432-14.000.
- Honkaniemi, Matti E.; Mustikka, Lauri A.; Jankkila, Martti J.; Hokkanen, Pentti O.; Heikkila, Risto M.; and Lilja, Launo L., 4,708,640, Cl. 432-14.000.

Jankovic, Mladen. Wedge sluice valve. 4,671,489, 6-9-87, Cl. 251-327.000.

Jankovsky, Frantisek; and Gacsay, Lorant, to Sulzer Brothers Limited. Guide for parts of a weaving machine. 4,653,547, 3-31-87, Cl. 139-439.000.

Jankowski, Alfons: *See*—
- Dohler, Werner; Merz, Ludwig; Frohnert, Heinz; Uckermann, Bernd; Graeser, Ulrich; Jankowski, Alfons; Wolowski, Eckard; Tamm, Hans-Friedrich; and Wilczok, Norbert, 4,639,310, Cl. 208-412.000.

Jankowski, Christian: *See*—
- Castillo, Jean-Michel; Jankowski, Christian; and Ferlay, Serge, 4,676,877, Cl. 204-10.000.

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- Donnerhack, Andreas; Jankowski, Detlef; Pfeil-Schneider, Kurt; Thoma, Klemens; and Volker, Wolfgang, 4,688,603, Cl. 138-103.000.

Jankowski, Stephen J.: *See*—
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Janler Corporation: *See*—
- Klingler, Josef F., 4,643,326, Cl. 220-94.00R.

Jann, Wolfango: *See*—
- Huttenrauch, Gerd; Jann, Wolfango; and Kranvogel, Feliks, 4,672,652, Cl. 378-152.000.

Jannard, James H. Removable multi-component sunglasses. 4,674,851, 6-23-87, Cl. 351-47.000.

Jannborg, Bjorn; and Lundstrom, Mats, to ASEA Aktiebolag. Robot installation. 4,655,676, 4-7-87, Cl. 414-736.000.

Jannelli, Ralph J.: *See*—
- Marsland, Charles N.; and Jannelli, Ralph J., 4,686,630, Cl. 364-492.000.

Jannemann, Theo; and Brunje, Horst, to Ruhrgas Aktiengesellschaft. Storage water heater system. 4,699,122, 10-13-87, Cl. 126-362.000.

Janneteau, Eric: *See*—
- Germain, Jean-Luc; Janneteau, Eric; Loisy, Francois; and Honore, Joel, 4,688,627, Cl. 165-11.100.

Janning, John L., to NCR Corporation. Two bit vertically/horizontally integrated memory cell. 4,667,217, 5-19-87, Cl. 357-54.000.

Jannke, Thomas E. Screw extractor and method of using same. 4,688,315, 8-25-87, Cl. 29-426.400.

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- Coates, Fredrica V.; Jannoni, Richard; and Orsini, Jean, 4,680,030, Cl. 604-391.000.

Jannusch, Reiner: *See*—
- Lehmann, Eike; and Jannusch, Reiner, 4,640,216, Cl. 114-340.000.

Jano, Patrice; and Tron, Michele, to Compagnie Industrielle des Lasers Cilas Alcatel. Laser device for guiding a missile to a target. 4,634,271, 1-6-87, Cl. 356-5.000.

Janocha, Gerhard: *See*—
- Gardziella, Arno; Kwasniok, Alois; Heerdegen, Harald; and Janocha, Gerhard, 4,634,723, Cl. 523-144.000.

Janocha, Siegfried; Crass, Guenther; Bothe, Lothar; and Schloegl, Gunter, to Hoechst Aktiengesellschaft. Multi-layer opaque low density film. 4,663,219, 5-5-87, Cl. 428-213.000.

Janocha, Siegfried: *See*—
- Crass, Gunther; Janocha, Siegfried; and Bothe, Lothar, 4,652,489, Cl. 428-337.000.

Janoff, Andrew S.; Rauch, Joyce; and Tilcock, Colin P. S., to Liposome Company, Inc., The. Lipid-dependent diagnostic assays. 4,666,831, 5-19-87, Cl. 435-13.000.

Janoff, Andrew S.; Ostro, Marc J.; Weiner, Alan L.; Weissmann, Gerald; and Seibold, James R., to Liposome Company, Inc., The. Liposome composition for lupus assay. 4,668,638, 5-26-87, Cl. 436-506.000.

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Janome Sewing Machine Co. Ltd.: *See*—
- Eguchi, Yasukata; Hara, Kazumasa; and Hisatake, Michio, 4,690,082, Cl. 112-254.000.
- Eguchi, Yasukata; Hanyu, Susumu; Hara, Kazumasa; and Koike, Mikio, 4,700,644, Cl. 112-255.000.
- Hanyu, Susumu; Hara, Kazumasa; Sasano, Akiyoshi; and Koike, Mikio, 4,638,751, Cl. 112-254.000.

Hanyu, Susumu; Kata, Kenji; and Takahashi, Yoshitaka, 4,648,340, Cl. 112-447.000.

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Hara, Kazumasa; Koike, Mikio; and Sasano, Akiyoshi, 4,690,083, Cl. 112-254.000.

Hara, Kazumasa; Sasano, Akiyoshi; and Koike, Mikio, 4,704,975, Cl. 112-238.000.

Hyodo, Tohru; and Kakubari, Toru, 4,667,612, Cl. 112-277.000.

Kasuga, Noboru, 4,714,040, Cl. 112-323.000.

Kato, Kenji, 4,633,794, Cl. 112-121.110.

Kato, Kenji; Yamaguchi, Yoshio; and Takahashi, Yoshitaka, 4,648,341, Cl. 112-458.000.

Kato, Kenji, 4,672,903, Cl. 112-457.000.

Kato, Kenji; and Kato, Shoji, 4,672,904, Cl. 112-457.000.

Kato, Kenji, 4,688,503, Cl. 112-445.000.

Kato, Kenji; and Sano, Yasuro, 4,696,245, Cl. 112-264.100.

Koike, Mikio; Goto, Kenzo; and Hara, Kazumasa, 4,662,292, Cl. 112-184.000.

Koike, Mikio; and Goto, Kenzo, 4,674,423, Cl. 112-184.000.

Murakami, Eiji; Hyodo, Toru; and Tanaka, Haruhiko, 4,651,663, Cl. 112-458.000.

Murakami, Eiji; Sano, Yasuro; and Hyodo, Tohru, 4,677,925, Cl. 112-266.100.

Ozaki, Yoshiaki; and Takanashi, Mahito, 4,707,751, Cl. 360-97.000.

Sano, Yasuro, 4,664,047, Cl. 112-266.100.

Sano, Yasuro, 4,691,655, Cl. 112-466.000.

Takenoya, Hideaki; Inamori, Mikio; and Shomura, Eiichi, 4,640,210, Cl. 112-456.000.

Takenoya, Hideaki; Syomura, Eiichi; and Inamori, Mikio, 4,649,845, Cl. 112-439.000.

Wakaizumi, Kiyoshi, 4,654,725, Cl. 360-97.000.

Janome Sewing Machine Industry Co., Ltd.: *See—*

Hanyu, Susumu; and Koide, Akio, 4,643,120, Cl. 112-466.000.

Hanyu, Susumu; and Kato, Kenji, 4,660,488, Cl. 112-454.000.

Hanyu, Susumu; Takenoya, Hideaki; and Mishima, Fumiyuki, 4,664,545, Cl. 400-616.200.

Takenoya, Hideaki; and Mishima, Fumiyuki, 4,697,941, Cl. 400-185.000.

Janos, Alan C.; Jardin, Stephen C.; and Yamada, Masaaki, to United States of America, Energy. Steady-state inductive spheromak operation. 4,687,617, 8-18-87, Cl. 376-137.000.

Janos, Alan C.: *See—*

Furth, Harold P.; Janos, Alan C.; Uyama, Tadao; and Yamada, Masaaki, 4,713,208, Cl. 376-137.000.

Janos, Antal; and Jeno, Pojbics, to Latszereszeti Eszkozok Gyara. Sight-testing ambulance bus. 4,712,822, 12-15-87, Cl. 296-24.00R.

Janos, Eva: *See—*

Bordas, Barna; Gimesi, Antal; Kovacs nee Kalman, Magda; Janos, Eva; Matolcsy, Gyorgy; and Tuske, Marton, 4,695,309, Cl. 71-88.000.

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Janos, Szabo: *See—*

Egon, Janosdeak; Tibor, Gergely; and Janos, Szabo, 4,708,226, Cl. 188-251.00A.

Janos, Wilbert J., to Republic Steel Corporation. Hot annealed weld inspection. 4,644,272, 2-17-87, Cl. 324-240.000.

Janosik, Michael J.: *See—*

Swensrud, Roger L.; White, Mark D.; Janosik, Michael J.; Soroka, Daniel P.; and Zelezniak, Joseph J., 4,659,902, Cl. 219-121.0LU.

Janouch, Vaclav; Hrudkova , Hana; and Cefelin, Pavel, to Ceskoslovenskla akademie ved. Polymeric sulfoxide based on the polymer of vinylalcohol. 4,707,516, 11-17-87, Cl. 525-60.000.

Janouschek, Heinz, to F. Gegauf AG Bernina Nahmaschinenfabrik. Laterally swingable sewing machine presser device. 4,694,764, 9-22-87, Cl. 112-237.000.

Janowiak, Christopher S. Air system prosthesis for amputees. 4,655,779, 4-7-87, Cl. 623-37.000.

Janowicz, Andrew H.; and Melby, Lester R., to Du Pont de Nemours, E. I., and Company. Cobalt (II) chelates as chain transfer agents in free radical polymerizations. 4,680,352, 7-14-87, Cl. 526-147.000.

Janowicz, Andrew H., to Du Pont de Nemours, E. I., and Company. Cobalt(II) chelates as chain transfer agents in free radical polymerizations. 4,694,054, 9-15-87, Cl. 526-93.000.

Jans, Herbert, to Siemens Aktiengesellschaft. Circuit arrangement for telecommunications exchange systems, particularly telephone exchange systems, comprising information processing sequential logic systems and traffic measuring devices. 4,649,234, 3-10-87, Cl. 379-138.000.

Jansch, Peter A. G., to Saab-Scania Aktiebolag. Device for measuring oil level in an internal combustion engine. 4,640,126, 2-3-87, Cl. 73-290.00R.

Jansco, Sandor: *See—*

Madi-Szabo, Laszlo; Morvai, Margit; Horvath nee Feher, Eva; Jansco, Sandor; Tamasi, Piroska; Kovacs, Istvan; Kiss nee Loss, Ilona Maria; Bacsa, Gyorgy; Kubala nee Papp, Maria; and Bene nee Horvath, Magdolna, 4,705,779, Cl. 514-27.000.

Jansen, Dirk: *See—*

Kordulla, Hans; Jansen, Dirk; and Schmid, Gunter, 4,700,065, Cl. 250-231.0SE.

Jansen, Frank; Mort, Joseph; Morgan, Michael A.; Grammatica, Steven J.; and Knights, John C., to Xerox Corporation. Electrophotographic devices containing compensated amorphous silicon compositio 4,634,647, 1-6-87, Cl. 430-84.000.

Jansen, Frank; and Mort, Joseph, to Xerox Corporation. Electropho graphic imaging members with amorphous carbon. 4,634,648, 1-6-87 Cl. 430-84.000.

Jansen, Franz; and Gros, Pierre, to Sanofi. Imidazolides as intermedi ates for the synthesis of cytotoxic conjugates. 4,670,563, 6-2-87, Cl. 546-278.000.

Jansen, Franz: *See—*

Castellas, Pierre; Gros, Pierre; and Jansen, Franz, 4,643,895, Cl. 424-85.000.

Jansen, George A., to Band-It Houdaille, Inc. Apparatus for a ban clamping tool. 4,646,591, 3-3-87, Cl. 81-9.300.

Jansen, Gerardus L. M.; Smulders, Henricus J.; and Schuitmaker, Pie D., to U.S. Philips Corporation. Disc reading apparatus with di shoot journaled in frame. 4,691,311, 9-1-87, Cl. 369-100.000.

Jansen-Herfeld, Roettger, to Richard Jansen GmbH. Hydraulic sa frame with external sealing means. 4,682,525, 7-28-87, Cl. 83-751.00

Jansen, Johann: *See—*

Wagener, Dietrich; Laue, Karl H.; Wunderlich, Egmar; Sande Theo; Flockenhaus, Claus; Hackler, Erich; Levkov, Bog Grimm, Daniel; Kainer, Hartmut; Stein, Hermann; Buhler, Ha Eugen; Kalfa, Horst; Jansen, Johann; Stender, Werner; and Ma Arnold, 4,695,559, Cl. 502-183.000.

Jansen, Martin; and Standke, Burkhard, to Degussa Aktiengesellsch Process for the production of silver (III) oxide. 4,695,353, 9-22-87, C 204-96.000.

Jansen, Norman A.; and Randall, Beryl D. Apparatus for taking up a playing out lines. 4,691,806, 9-8-87, Cl. 187-9.00R.

Jansen, Paul. Illuminated standing support for plant and flower bo and other recipients. 4,646,209, 2-24-87, Cl. 362-122.000.

Jansen, Richard F.: *See—*

Birum, Gail H.; and Jansen, Richard F., 4,713,489, Cl. 564-8

Jansen, Rudolf, to Otto Junker GmbH. Charging sluice for anneal oven. 4,681,536, 7-21-87, Cl. 432-59.000.

Jansen, Winfrid B.; and Nolde, Wolfgang, to U.S. Philips Corporatio FM stereo receiver. 4,669,119, 5-26-87, Cl. 381-13.000.

Jansens & Dieperink B.V.: *See—*

Fons, Gerrit, 4,656,793, Cl. 52-98.000.

Janser, Bernhard: *See—*

Piotrowski, Bernhard; Buning, Robert; Janser, Bernhard; an Lang, Egon, 4,642,262, Cl. 428-296.000.

Jansheski, John E., to U.S. DenTek Corporation. Dental tool for pe sonal oral hygiene. 4,643,676, 2-17-87, Cl. 433-143.000.

Jansky, Karl P.: *See—*

Barry, Jurgen; and Jansky, Karl P., 4,666,309, Cl. 356-446.00

Janson, David A., to Ford Motor Company. Gear shift control mec nism. 4,648,283, 3-10-87, Cl. 74-477.000.

Janson, David A.: *See—*

Bopp, Warren G.; and Janson, David A., 4,690,256, Cl. 192-2

Janson, Richard W. Furniture assembly and assembly device. 4,637, 1-20-87, Cl. 108-111.000.

Janson, Stephen: *See—*

Omachen, Ludwig; and Janson, Stephen, 4,693,199, Cl. 114-3

Jansons, Viktors; Gors, Heinrich C.; Moore, Stephen; Reamey, Ken H.; and Becker, Paul, to Raychem Corporation. Preparation of po (arylene ether ketones). 4,698,393, 10-6-87, Cl. 525-242.000.

Jansons, Viktors; and Gors, Heinrich C., to Raychem Corporatio Preparation of aromatic polymers. 4,709,007, 11-24-87, C 528-222.000.

Jansons, Viktors: *See—*

Bannick, Mark A.; Divers, George A., III; and Jansons, Vikt 4,693,851, Cl. 260-544.00D.

Janssen, Bernd; Karbach, Stefan; Meyer, Norbert; and Laur, Gerha to BASF Aktiengesellschaft. Application of azolylmethyloxiranes the treatment of viral diseases. 4,652,580, 3-24-87, Cl. 514-383.0

Janssen, Bernd; Koenig, Horst; and Scharwaechter, Peter, to BAS Aktiengesellschaft. Treatment of viral diseases. 4,663,338, 5-5-87, C 514-383.000.

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Janssen, Bernd: *See—*

Wuest, Hans-Heiner; Janssen, Bernd; Frickel, Fritz-Frieder; an Nuerrenbach, Axel, 4,714,786, Cl. 568-633.000.

Janssen, Daniel J. G.: *See—*

Bourgonje, Wouter; Janssen, Daniel J. G.; van Reede, Willem and Vossen, Johannes A. A., 4,672,606, Cl. 370-85.000.

Janssen, Donovan M.: *See—*

Friehauf, William J.; Janssen, Donovan M.; Kirton, Alan J.; Mu phy, Robert M.; and Rose, Leroy, 4,636,892, Cl. 360-97.00

Friehauf, William J.; Janssen, Donovan M.; Kirton, Alan J.; Ne Michael E.; and Rose, Leroy, 4,707,753, Cl. 360-106.000.

Janssen, Gwen V.; and Rowland, Roy C. Hearing aid retention d 4,702,345, 10-27-87, Cl. 181-129.000.

Janssen, Heinz-Uwe: *See—*

Spoeler, Johannes-Gerhard; and Janssen, Heinz-Uwe, 4,7 Cl. 187-20.000.

Janssen, Jeffrey R., to Minnesota Mining and Manufacturing Compa Graphic design article. 4,640,727, 2-3-87, Cl. 156-240.000.

Janssen, Johannes H. H., to U.S. Philips Corporation. Brushless motor. 4,703,236, 10-27-87, Cl. 318-254.000.

Janssen, John E., to Honeywell Inc. Method and apparatus for mea ing a varying parameter. 4,682,898, 7-28-87, Cl. 374-179.000.

Janssen, Klaus, to Preussag Aktiengesellschaft Metall. Hydraulic conveying of solids. 4,666,347, 5-19-87, Cl. 406-144.000.

Janssen, Lothar: *See—*

Schlosser, Fritz; Arndt, Peter J.; Mueller, Manfred; and Janssen, Lothar, 4,672,105, Cl. 560-217.000.

Janssen, Owen R.; and Spector, George. Hook sneller and line cutter. 4,660,314, 4-28-87, Cl. 43-4.000.

Janssen, Peter J.: *See—*

Grassens, Leonardus J.; and Janssen, Peter J., 4,683,520, Cl. 361-427.000.

Janssen, Peter J. M.: *See—*

Faber, Johannes W.; and Janssen, Peter J. M., 4,698,798, Cl. 369-219.000.

Janssen, Petrus J.; and Janssens, Peter C., to U.S. Philips Corp. Glass optical fiber having a primary and a secondary coating. 4,690,503, 9-1-87, Cl. 350-96.300.

Janssen, Petrus J.: *See—*

Van Der Giessen, Aart A.; Van Der Hulst, Victor A.; and Janssen, Petrus J., 4,673,427, Cl. 65-2.000.

Janssen Pharmaceutica, N.V.: *See—*

Janssens, Frans E.; Torremans, Joseph L. G.; Hens, Jozef F.; and Van Offenwert, Theophilus T. J. M., 4,634,704, Cl. 514-253.000.

Janssens, Frans E.; Van Offenwert, Theophilus T. J. M.; Stokbroekx, Raymond A.; and Boar, Bernard R., 4,689,330, Cl. 514-321.000.

Janssens, Frans E.; Torremans, Joseph L. G.; Hens, Jozef E.; and Van Offenwert, Theophilus T. J. M., 4,695,569, Cl. 514-258.000.

Janssens, Frans E.; Kennis, Ludo E. J.; Hens, Jozef F.; Torremans, Joseph L. G.; and Diels, Gaston S. M., 4,695,575, Cl. 514-322.000.

Vandenberk, Jan; Kennis, Ludo E. J.; and Mertens, Josephus C., 4,665,075, Cl. 514-259.000.

Van der Veken, Guido J. L.; Guns, Eric J.; and Willemsens, Albert L. A., 4,672,126, Cl. 548-155.000.

Van Dijck, Paul C. M.; Ligtvoet, Theo F. M. C.; and Van Leemput, Leo J. J., 4,648,988, Cl. 252-602.000.

Van Lommen, Guy R. E.; De Bruyn, Marcel F. L.; and Schroven, Marc F. J., 4,654,362, Cl. 514-452.000.

Janssen, Robert A.; and Sorenson, Gary D., to Magnetic Peripherals Inc. Process for chemically bonding a lubricant to a magnetic disk. 4,642,246, 2-10-87, Cl. 427-127.000.

Janssen, Robert A., to CIBA-GEIGY Corporation. Particulate hydroperoxidized poly-N-vinyl lactam, its preparation and use thereof. 4,678,838, 7-7-87, Cl. 525-326.900.

Janssen, Wladmir, to Domtar Inc. Method to automatically determine the size distribution of shive and analyzer therefor. 4,694,683, 9-22-87, Cl. 73-63.000.

Janssens, Frans E.; Torremans, Joseph L. G.; Hens, Jozef F.; and Van Offenwert, Theophilus T. J. M., to Janssen Pharmaceutica, N.V. Anti-allergic five membered heterocyclic ring containing N-(bicyclic heterocycyl)-4-piperidinamines. 4,634,704, 1-6-87, Cl. 514-253.000.

Janssens, Frans E.; Van Offenwert, Theophilus T. J. M.; Stokbroekx, Raymond A.; and Boar, Bernard R., to Janssen Pharmaceutica N.V. Antidepressive substituted N-[(4-piperidinyl)alkyl] bicyclic condensed oxazol- and thiazolamines. 4,689,330, 8-25-87, Cl. 514-321.000.

Janssens, Frans E.; Torremans, Joseph L. G.; Hens, Jozef E.; and Van Offenwert, Theophilus T. J. M., to Janssen Pharmaceutica N.V. Bicyclic heterocyclyl containing N-(bicyclic heterocyclyl)-4-piperidinamines. 4,695,569, 9-22-87, Cl. 514-258.000.

Janssens, Frans E.; Kennis, Ludo E. J.; Hens, Jozef F.; Torremans, Joseph L. G.; and Diels, Gaston S. M., to Janssen Pharmaceutica, N.V. 4-[(bicycle heterocyclyl)-methyl and -hetero]-piperidines. 4,695,575, 9-22-87, Cl. 514-322.000.

Janssens, Peter C.: *See—*

Janssen, Petrus J.; and Janssens, Peter C., 4,690,503, Cl. 350-96.300.

Jansson, Hans-Boerje: *See—*

Zuckerman, Bert M.; and Jansson, Hans-Boerje, 4,689,231, Cl. 424-195.100.

Jansson, Kurt, to AB A. K. Eriksson. Saw assembly. 4,637,443, 1-20-87, Cl. 144-39.000.

Jansson, Kurt, to AB A. K. Eriksson. Band saw installation with vertically spaced guides. 4,640,171, 2-3-87, Cl. 83-797.000.

Jansson, Mats A. H., to Telefonaktiebolaget LM Ericsson. Optical, integrated waveguide component. 4,688,881, 8-25-87, Cl. 350-96.110.

Jansson, Peter A.; Merrill, Michael J.; Owens, Daniel K.; and Rubin, Barry, to Du Pont de Nemours, E. I., and Company. Method of film inspection with a microscopical image analyzer. 4,656,663, 4-7-87, Cl. 382-8.000.

Jansson, Peter A.; Rogers, Wade T.; and Schwaber, James S., to Du Pont de Nemours, E. I., and Company. Method for operating a microscopical mapping system. 4,672,559, 6-9-87, Cl. 364-525.000.

Jansson, Peter A.; Rogers, Wade T.; and Schwaber, James S., to E.I. Du Pont de Nemours and Company. Electronic mosaic imaging process. 4,673,988, 6-16-87, Cl. 358-280.000.

Jansson, Peter A.: *See—*

Elias, John G.; and Jansson, Peter A., 4,638,456, Cl. 364-518.000.

Jansson, Tage, to Esselte Pac Aktiebolag. Apparatus for the manufacture of a tubular container sleeve. 4,655,738, 4-7-87, Cl. 493-269.000.

Jant, Keith H.; and Billiet, Richard L., to Dana Corporation. Method of making a flexible hose. 4,654,096, 3-31-87, Cl. 156-149.000.

Jantec Co., Ltd.: *See—*

Kawashima, Junzo; and Araki, Nobuyuki, 4,646,524, Cl. 62-5.000.

Jantzen, Michael E. Heat gain and retention structure, particularly a cold frame. 4,671,011, 6-9-87, Cl. 47-18.000.

Jantzen, Steve L.: *See—*

Jantzen, Steven L., 4,712,735, Cl. 238-94.000.

Jantzen, Steven L., to Jantzen, Steve L. Prestressed concrete cross tie having increased fatigue life. 4,712,735, 12-15-87, Cl. 238-94.000.

Jantzen, Steven L.: *See—*

Billingsley, Robert H.; and Jantzen, Steven L., 4,690,071, Cl. 105-404.000.

Billingsley, Robert H., Jr.; Jantzen, Steven L.; O'Leary, Walter E.; and Krug, John A., 4,696,238, Cl. 105-248.000.

Janus, Cornelis D.; and Wielenga, Alle, to Jadrimex Automation Group B.V. Process for checking the authenticity of documents as well as apparatus therefor. 4,634,872, 1-6-87, Cl. 250-458.100.

Janus, Jonny. Vehicle wheel rim for engaging tire bead on radial inward surface. 4,662,418, 5-5-87, Cl. 152-380.000.

Janus Label Corporation. *See—*

Voy, Peter A.; and Ihle, Robert D., 4,661,189, Cl. 156-248.000.

Janus, Robert J.: *See—*

Palmer, Jerry D.; Janus, Robert J.; and Lambert, Larry D., 4,646,064, Cl. 340-392.000.

Janusch, Alois; Lugscheider, Walter; and Ludewig, Fritz, to Voest-Alpine Aktiengesellschaaft. Process for the disposal of settled sludge derived from a biological sewage-disposal plant. 4,673,510, 6-16-87, Cl. 210-712.000.

Janusch, Alois, to Voest-Alpine Aktiengesellschaft. Process for dehydrating peat. 4,674,195, 6-23-87, Cl. 34-8.000.

Janusch, Alois: *See—*

Cvitas, Vilim; Faltejsek, Karl; Hanke, Reinhart; Janusch, Alois; and Larch, Gerhard, 4,685,899, Cl. 494-44.000.

Januschkowetz, Gerhard, to Schiedel GmbH & Co. Intermittently operating sorption apparatus with solid sorbent for heat and cold storage. 4,713,944, 12-22-87, Cl. 62-480.000.

Janusz, Edward G., to Sun Chemical Corporation. Polyamide-modified metal resinates and their use in publication gravure printing inks. 4,690,712, 9-1-87, Cl. 106-30.000.

Janusz, Edward G.: *See—*

Carlick, Daniel J.; Janusz, Edward G.; and Kveglis, Albert A., 4,666,984, Cl. 525-131.000.

Janusz, John M.; and Gardlik, John M., to Procter & Gamble Company, The. Oxa-fenchyl esters and amides of alpha-L-aspartyl-D-phenylglycine. 4,677,126, 6-30-87, Cl. 514-19.000.

Janusz, John M., to Procter & Gamble Company, The. Alpha-L-aspartyl-D-phenylglycine esters and amides useful as high intensity sweeteners. 4,692,512, 9-8-87, Cl. 530-801.000.

Janusz, John M.: *See—*

Blum, Robert B.; Gardlik, John M.; Janusz, John M.; and Rizzi, George P., 4,692,513, Cl. 530-801.000.

Janvier, Dominique: *See—*

Bonneton, Marc; and Janvier, Dominique, 4,678,390, Cl. 414-282.000.

Janvrin, Robert B., to General Signal Corporation. Hydraulic control system and valve. 4,664,017, 5-12-87, Cl. 91-420.000.

Janz, Joachim: *See—*

Panzner, Rudolph; and Janz, Joachim, 4,655,498, Cl. 296-97.00H.

Janzen, Dennis W.: *See—*

Gratteau, Jack E.; Janzen, Dennis W.; and Atreya, Shailesh, 4,672,322, Cl. 324-441.000.

Jao, Yun C.: *See—*

Good, Ivan C.; and Jao, Yun C., 4,689,297, Cl. 435-174.000.

Jaouen, Gerard; Vessieres, Anne; and Top, Siden, to Centre National de la Recherche Scientifique. Organometallic complexes of estrogens and their application to the determination of hormone receptors. 4,656,142, 4-7-87, Cl. 436-501.000.

Jaouen, Jean-Yves: *See—*

Onno, Guy; and Jaouen, Jean-Yves, 4,667,320, Cl. 370-58.000.

Jaouhari, Rabih: *See—*

Tkatchenko, Igor; Jaouhari, Rabih; Bonnet, Michel; Dawkins, Gordon; and Lecolier, Serge, 4,709,087, Cl. 560-339.000.

Japan Abrasive Co., Ltd.: *See—*

Iwata, Akira; Tamamaki, Masahiro; Tanaka, Genji; Taniguchi, Masaaki; and Tsuda, Kouji, 4,671,917, Cl. 264-332.000.

Japan Aircraft Mfg. Co., Ltd.: *See—*

Miura, Koryo; Kitamura, Takayuki; Okazaki, Kakuma; and Abe, Kazuhiro, 4,662,130, Cl. 52-108.000.

Natori, Michihiro, 4,655,022, Cl. 52-646.000.

Japan Alpha Corporation: *See—*

Iesaka, Takashi; Wada, Takaaki; Ohta, Ikumi; and Izumi, Masayuki, 4,638,618, Cl. 52-509.000.

Japan Atomic Energy Research Institute: *See—*

Ando, Toshinari; Takahashi, Yoshikazu; Nishi, Masataka; Shimamoto, Susumu; Aihara, Katsuzo; and Tada, Naofumi, 4,652,697, Cl. 174-128.00S.

Arakawa, Kazuo; Hayakawa, Naohiro; Yoshida, Kenzo; Tamura, Naoyuki; Nakanishi, Hiroshi; Yagi, Tetsuya; and Kuroiwa, Shintaro, 4,664,829, Cl. 252-52.00R.

Arakawa, Kazuo; Hayakawa, Naohiro; Yoshida, Kenzo; Yagi, Tetsuya; and Nakanishi, Hiroshi, 4,711,732, Cl. 252-28.000.

Arisawa, Takashi; Maruyama, Yoichiro; Shiba, Koreyuki; Niwa, Toshio; Kaneko, Masaharu; and Ono, Hitoshi, 4,646,309, Cl. 372-53.000.

Arisawa, Takashi; Suzuki, Youji; Maruyama, Yoichiro; Kato, Masaaki; and Shiba, Koreyuki, 4,689,128, Cl. 204-157.220.

Konishi, Satoshi; Ohno, Hideo; Naruse, Yuji; and Yoshida, Hiroshi, 4,637,866, Cl. 204-129.000.

Matsuoka, Mamoru; and Higa, Osamu, 4,665,458, Cl. 361-18.000.

Morita, Yousuke; Seguchi, Tadao; Kojima, Takuji; and Tanaka, Ryuichi, 4,668,714, Cl. 523-136.000.

Nagashima, Akira; and Sukegawa, Osamu, 4,683,576, Cl. 372-98.000.

Sakamoto, Setsu; Nakagawa, Yasuhiro; Yamauchi, Isamu; Zaizen, Takashi; Suzuki, Katsumi; Shimamoto, Susumu; and Nakajima, Hideo, 4,675,156, Cl. 420-34.000.
Wakayama, Naoaki; Yamagishi, Hideshi; Fukakusa, Shinji; and Tomoda, Toshimasa, 4,682,036, Cl. 250-374.000.
Yoshida, Masaru; Asano, Masaharu; Kaetsu, Isao; Nakai, Katsuyuki; Yamanaka, Hidetoshi; Shida, Keizo; and Shiraishi, Akira, 4,652,443, Cl. 424-487.000.
Japan Automatic Transmission Co., Ltd.: *See—*
Boda, Keiji; Waki, Kouichirou; and Yanagisawa, Keizo, 4,709,596, Cl. 74-868.000.
Japan Aviation Elec.: *See—*
Nakazawa, Akira; Kikuta, Shigeru; Koike, Kihachiro; Matsuoka, Kensaku; and Nishino, Yoshimitsu, 4,681,388, Cl. 439-449.000.
Nakazawa, Akira; Kikuta, Shigeru; Koike, Kihachiro; Matsuoka, Kensaku; and Nishino, Yoshimitsu, 4,681,389, Cl. 439-557.000.
Japan Aviation Elec. Industry Limited: *See—*
Nakazawa, Akira; Kikuta, Shigeru; Koike, Kihachiro; Matsuoka, Kensaku; and Nishino, Yoshimitsu, 4,688,871, Cl. 439-357.000.
Japan Aviation Electronic Industry, Ltd.: *See—*
Shintani, Yasuo; Sakuma, Kazuhiro; Yabe, Hisashi; and Ito, Hirohito, 4,658,647, Cl. 73-517.00B.
Japan Aviation Electronics Industry Limited: *See—*
Hoshino, Teruaki; and Kamiji, Koichi, 4,674,814, Cl. 439-586.000.
Nakazawa, Akira; Kikuta, Shigeru; Koike, Kihachiro; Matsuoka, Kensaku; and Nishino, Yoshimitsu, 4,688,871, Cl. 439-357.000.
Nishino, Yoshimitsu; Tsuruda, Wataru; Koike, Kihachiro; and Matsuoka, Kensaku, 4,678,256, Cl. 439-347.000.
Japan Bano'k Co., Ltd.: *See—*
Furutsu, Akira, 4,683,920, Cl. 140-93.00A.
Japan Carlit Co., Ltd., The: *See—*
Ebisawa, Makoto; Shindo, Shuko; Hashizume, Kenichi; and Isa, Isao, 4,688,153, Cl. 361-433.000.
Hirakata, Kaoru; Mochizuki, Masaaki; Kanai, Hideo; and Itai, Reiichi, 4,687,565, Cl. 204-258.000.
Japan Chemical Research Co., Ltd.: *See—*
Nishimura, Toyohiko; and Hiratani, Hajime, 4,676,983, Cl. 424-101.000.
Yuki, Yoshikazu; Nishimura, Toyohiko; and Hiratani, Hajime, 4,665,161, Cl. 530-412.000.
Japan Electronic Control Systems Co., Ltd.: *See—*
Tomisawa, Naoki; Furuhashi, Shoji; and Otani, Seiichi, 4,655,188, Cl. 123-489.000.
Tomisawa, Naoki, 4,715,344, Cl. 123-489.000.
Japan Electronic Industry Development Association: *See—*
Takafuji, Yutaka; Kato, Hiroaki; and Funada, Fumiaki, 4,654,959, Cl. 29-571.000.
Japan Exlan Company, Ltd.: *See—*
Fujimatsu, Masaaki; and Kobashi, Toshiyuki, 4,716,002, Cl. 264-182.000.
Kobashi, Toshiyuki; and Takao, Seiji, 4,658,004, Cl. 526-341.000.
Kobashi, Toshiyuki; and Takao, Seiji, 4,659,529, Cl. 264-182.000.
Kobashi, Toshiyuki; and Naka, Hideo, 4,659,847, Cl. 556-5.000.
Nomura, Katsuaki; and Tsurumi, Hideyuki, 4,663,200, Cl. 427-387.000.
Japan Gore-Tex, Inc.: *See—*
Nomi, Haruo, 4,692,369, Cl. 428-198.000.
Japan Liquid Crystal Co., Ltd.: *See—*
Shibanai, Ichiro; and Nakamura, Kenji, 4,677,177, Cl. 527-300.000.
Shibanai, Ichiro; and Nakamura, Kenji, 4,711,936, Cl. 525-485.000.
Japan Metals and Chemicals Co., Ltd.: *See—*
Katayama, Hiroyuki; Ishikawa, Hidetake; Kuwabara, Masatoshi; Kajioka, Hiroyuki; Fujita, Masaki; Shibata, Kenji; Tamura, Yoshiaki; and Shimanuki, Takashi, 4,662,937, Cl. 75-80.000.
Osada, Soichi; Inoue, Hirokatsu; Shimizu, Chuji; Onodera, Yasuaki; Kobayashi, Ken-ichi; Kozima, Kazuo; and Shioda, Shigeyoshi, 4,653,500, Cl. 128-639.000.
Tsutsumi, Jiro; Uchiyama, Minolu; Katagiri, Kunio; and Yamada, Haruo, 4,657,076, Cl. 166-90.000.
Japan National Railway: *See—*
Okamoto, Isao; Hiraishi, Motomi; Takai, Hideo; Kasai, Kenjiro; and Terada, Katsuyuki, 4,715,289, Cl. 105-199.200.
Japan Pipe Conveyor Co., Ltd.: *See—*
Hashimoto, Kunio, 4,653,961, Cl. 405-258.000.
Japan Servo Co., Ltd.: *See—*
Isozaki, Koki, 4,675,564, Cl. 310-49.00R.
Japan Silicon Co., Ltd.: *See—*
Tsuruta, Shoji; Minami, Hideaki; Ohhata, Yoshinori; and Sakai, Shinsuke, 4,699,118, Cl. 125-11.00R.
Japan Solar Energy Co., Ltd.: *See—*
Koiwai, Sakae; Asaoka, Keizo; Shirasawa, Katsuhiko; Watanabe, Hiroyuki; and Honda, Junichi, 4,640,001, Cl. 29-572.000.
Japan Spectroscopic Co., Ltd: *See—*
Tsunoyama, Kouzou; Tanimoto, Wataru; Ohashi, Yoshiharu; Kimura, Shigeyuki; and Asakawa, Fumio, 4,652,128, Cl. 356-318.000.
Japan Steel Works, Ltd., The: *See—*
Mizuguchi, Hideki; Yamaguchi, Haruo; Hanada, Seigo; and Mukuda, Nobuo, 4,679,461, Cl. 74-665.0GA.
Yokota, Akira, and Kato, Masashi, 4,661,053, Cl. 425-3.000.
Yokota, Akira; Kato, Masashi; and Fujii, Katsuhiro, 4,666,387, Cl. 425-3.000.
Japan Storage Battery Company Limited: *See—*
Yonezu, Kunio; Nitta, Hidetsugu; and Tsubota, Masaharu, 4,689,571, Cl. 324-432.000.
Japan Styrene Paper Corporation: *See—*
Akiyama, Hiroyuki; Izawa, Susumu; and Kuwabara, Hideki, 4,692,507, Cl. 525-481.000.
Akiyama, Hiroyuki; Izawa, Susumu; Okabe, Shigeru; and Yamaguchi, Toru, 4,716,021, Cl. 422-135.000.
Kuwabara, Hideki; and Naito, Masato, 4,657,937, Cl. 521-56.000.
Kuwabara, Hideki, 4,676,939, Cl. 264-50.000.
Kuwabara, Hideki; Kitagawa, Atsushi; and Sudo, Yoshim
4,695,593, Cl. 521-60.000.
Kuwabara, Hideki; Naito, Masato; Watanabe, Teishiro; and Hamada, Tadatsugu, 4,711,287, Cl. 164-34.000.
Nakamura, Hisao; and Iwano, Shoji, 4,649,001, Cl. 264-50.000.
Naohara, Junsuke; Horie, Toshiki; and Kino, Toru, 4,674,976, Cl. 432-11.000.
Yoshimura, Shohei; Yamaguchi, Toru; Hashiba, Masahiro; and Kanbe, Masato, 4,656,197, Cl. 521-56.000.
Yoshimura, Shohei; Yamaguchi, Toru; Kanbe, Masato; and Kuwabara, Hideki, 4,704,239, Cl. 264-50.000.
Yoshimura, Shohei; Fujimura, Shigeki; and Sakamoto, Itar
4,707,569, Cl. 174-116.000.
Japan Synthetic Rubber Co., Ltd.: *See—*
Fujiwara, Shuetsu; Andoh, Naoki; and Hosotani, Kenji, 4,684,73
Cl. 549-242.000.
Hashimoto, Takatsugu; Maehara, Akihiro; Tomita, Seisuke; Funahashi, Yuichi; Watanabe, Junichiro; Sugiura, Kazuo; and Matsumoto, Hironori, 4,714,734, Cl. 524-496.000.
Kasai, Kiyoshi; Hattori, Masayuki; Kikuchi, Osamu; Takeuchi, Hiromi; Hirai, Haruhiro; and Sakurai, Nobuo, 4,694,035, Cl. 524-458.000.
Kuwahara, Hideyuki; Kondo, Bunji; Takada, Jun; Yanagihara, Kenji; Kimura, Mituo; and Niinomi, Masahiro, 4,701,301, Cl. 419-21.000.
Minamizaki, Yoshihiro; Miki, Yoshio; Yamamoto, Takayuki; It
Akira; and Sakagami, Toshinori, 4,699,938, Cl. 524-271.000.
Miyabayashi, Toshio; Sakabe, Nobuyuki; Udagawa, Yoshiyuk
Enyo, Hiroji; and Takemura, Yasuhiko, 4,675,362, Cl. 525-208.000.
Nishikawa, Yasuo; Okita, Tsutomu; Mukaida, Yoshito; Niinom
Masahiro; Yanagihara, Kenji; and Kimura, Mituo, 4,713,287, Cl. 428-336.000.
Shimozato, Yasuyuki; Tsuchikawa, Syuji; Kimura, Shinichi; and Noro, Masahiko, 4,659,790, Cl. 526-87.000.
Ukachi, Takashi; Bessho, Keiichi; Kumano, Atsushi; Matsumura, Yoshio; and Ansel, Robert E., 4,683,280, Cl. 528-71.000.
Watanabe, Junichiro; Funahashi, Yuichi; Sugiura, Kazuo; and Matsumoto, Hironori, 4,657,965, Cl. 524-506.000.
Yamazaki, Yoshihide; Uchimura, Kazumi; Yamashita, Satoshi; and Takeuchi, Mikio, 4,695,614, Cl. 526-142.000.
Yanagihara, Kenji; Kimura, Mituo; and Niinomi, Masahiro, 4,636,435, Cl. 428-336.000.
Yanagihara, Kenji; Kimura, Mituo; Niinomi, Masahiro; Nishikawa, Yasuo; and Mukaida, Yoshito, 4,693,799, Cl. 204-165.000.
Japan Tectron Instruments Corporation: *See—*
Wakatake, Koichi, 4,647,432, Cl. 422-64.000.
Japan Tobacco Inc.: *See—*
Akutsu, Takao, 4,661,985, Cl. 382-8.000.
Hirama, Shigemitsu; Aida, Satoru; and Soyama, Hideo, 4,680,9
Cl. 53-499.000.
Horie, Motonobu; Shimizu, Teruo; and Obara, Kouichiro, 4,644,961, Cl. 131-94.000.
Kagawa, Kenichi, 4,641,265, Cl. 364-153.000.
Kato, Yukio; Komori, Mikio; and Yonai, Tadao, 4,677,993, Cl. 131-280.000.
Katou, Yukio; Suzuki, Takehiro; and Shimada, Susumu, 4,711,3
Cl. 180-168.000.
Kobayashi, Hideki; Okumoto, Yutaka; and Komori, Mikio, 4,660,574, Cl. 131-105.000.
Kobayashi, Hideki; Okumoto, Yutaka; and Komori, Mikio, 4,681,505, Cl. 414-744.00R.
Kobayashi, Takeshi; Ishii, Ryouichi; and Kitamoto, Tomoyoshi, 4,679,135, Cl. 364-146.000.
Kohata, Toshihide; Miyazaki, Masaru; Sato, Yoshihisa; and Ikeda, Junichi, 4,697,408, Cl. 57-264.000.
Kuga, Hisashi; and Sasaki, Chikara, 4,644,150, Cl. 250-223.00R.
Kumata, Katsuhiko; Endo, Isao; Numa, Syozi; Hirose, Ichiro; Sagawa, Takayoshi; and Matono, Katsuyoshi, 4,661,034, Cl. 414-416.000.
Kumata, Katsuhiko; Endo, Isao; Numa, Syozi; Hirose, Ichiro; Sagawa, Takayoshi; and Matono, Katsuyoshi, 4,696,617, Cl. 414-422.000.
Miki, Hajime, 4,715,170, Cl. 56-27.500.
Miyazaki, Masaru; and Kohata, Toshihide, 4,705,225, Cl. 24
56.00R.
Mizusaki, Shigenobu; Yoshida, Daisuke; and Saito, Yutaka, 4,701,570, Cl. 568-821.000.
Muto, Yoshiyuki; Etani, Tadao; Aida, Satoru; and Kato, Shinya, 4,695,007, Cl. 242-58.400.
Mutoh, Yoshiyuki, 4,676,047, Cl. 53-133.000.
Nagata, Tomizou; and Miyaoka, Norikuni, 4,636,184, Cl. 493-98.000.
Nagata, Tomizou; and Sakano, Makoto, 4,650,449, Cl. 493-84.000.
Nagata, Tomizou; and Miyaoka, Norikuni, 4,674,997, Cl. 493-93.000.
Nagata, Tomizou; Mutoh, Yoshiyuki; and Kobayashi, Kazutaka, 4,711,339, Cl. 198-419.000.
Okumoto, Yutaka, 4,635,648, Cl. 131-109.100.

Okumoto, Yutaka, 4,638,817, Cl. 131-280.000.
Okumoto, Yutaka, 4,640,168, Cl. 83-677.000.
Okumoto, Yutaka; Furukawa, Takao; and Komori, Mikio, 4,671,299, Cl. 131-60.000.
Ono, Takahiro; Akutsu, Takao; and Fujiwara, Hideyuki, 4,640,299, Cl. 131-303.000.
Sakabe, Busaburo; Hyuga, Kounosuke; and Araki, Kazuhito, 4,635,402, Cl. 51-74.0BS.
Susumu, Kubo; Tsutomu, Ikeda; Yoichi, Takanami; and Yoichi, Mikami, 4,701,522, Cl. 530-370.000.
Yamaguchi, Katsunori; and Takemoto, Nagaaki, 4,679,575, Cl. 131-365.000.

Japan Tobacco & Salt Public Corporation, The: *See—*
Hirose, Ichiro; and Sagawa, Takayoshi, 4,709,711, Cl. 131-336.000.
Kagawa, Kenichi, 4,709,708, Cl. 131-302.000.
Mine, Taichi; Sakabe, Busaburo; and Sato, Kiyomi, 4,649,940, Cl. 130-30.00R.
Nambu, Yutaka; Sugawara, Hitosi; and Saitoh, Yasuo, 4,660,298, Cl. 34-30.000.
Ohyatsu, Shin; and Minami, Keisuke, 4,651,757, Cl. 131-96.000.
Okumoto, Yutaka, 4,693,260, Cl. 131-84.100.
Okumoto, Yutaka, 4,693,261, Cl. 131-84.100.
Ono, Shuichi; Aida, Satoru; and Hoshino, Kinshiro, 4,672,796, Cl. 53-449.000.

Japan Vilene Co., Ltd.: *See—*
Sumii, Yoshiyuki; and Fukaya, Soshichi, 4,686,132, Cl. 428-171.000.

Japanese National Railways: *See—*
Kitta, Toshiyuki; Tada, Hiroshi; and Ishikawa, Keizo, 4,648,224, Cl. 52-223.00R.
Mochizuki, Asahi; Ozawa, Akira; Fujita, Shinichiro; and Yamada, Kuniaki, 4,696,446, Cl. 246-169.00S.
Sato, Yoshihiko; Ohishi, Fujio; Hongu, Tatsuya; Suzuki, Toshio; and Ogawa, Yoshihiko, 4,652,495, Cl. 428-425.500.

Japenga, Robert J.; and Scott, Paul F., to Emhart Industries, Inc. Programmable control system for glassware forming machines. 4,641,269, 2-3-87, Cl. 364-473.000.

Japikse, Cornelis H.; Van Brocklin, Lester P.; Hembree, Johnny A.; Kitts, Ralph R.; and Meece, Donald R., to Procter & Gamble Company, The. Process for the production of citrus flavor and aroma compositions. 4,647,466, 3-3-87, Cl. 426-387.000.

Japikse, Cornelis H.; Van Brocklin, Lester P.; Hembree, Johnny A.; Kitts, Ralph R.; and Meece, Donald R., to Procter & Gamble Company, The. Orange flavor and aroma compositions made by dense gas extraction of organic orange flavor and aroma compounds. 4,693,905, 9-15-87, Cl. 426-599.000.

Japka, Joseph E.: *See—*
Girrell, Carol A.; and Japka, Joseph E., 4,671,496, Cl. 266-78.000.

Japngie, Leonard A., to Telnetix, Inc. Telephone distribution apparatus. 4,641,900, 2-10-87, Cl. 339-17.0LC.

Japp, Robert M.: *See—*
Cummings, Michael J.; Hanford, Donald E.; and Japp, Robert M., 4,714,504, Cl. 156-64.000.

Japs, Dieter: *See—*
Tueckmantel, Eberhardt, and Japs, Dieter, 4,662,506, Cl. 198-463.500.

Jaqua, Evan W.: *See—*
Odenthal, Conrad J.; Askew, Dennis D.; and Jaqua, Evan W., 4,665,340, Cl. 313-449.000.

Jaqua, Vance W.; and Jencek, Premysl, to Rockwell International Corporation. Pneumatic bag deployment of folded nozzle extensions. 4,638,947, 1-27-87, Cl. 239-265.430.

Jaqua, Vance W.: *See—*
Feight, Robert A.; Jaqua, Vance W.; and Trom, Joseph, Jr., 4,682,779, Cl. 277-34.300.

Jaquet, Herve, to Avions Marcel Dassault-Breguet Aviation. Switchable antenna for the VHF and UHF frequency bands. 4,656,483, 4-7-87, Cl. 343-745.000.

Jarboe, Joseph L.: *See—*
Ritchey, Paul E., and Jarboe, Joseph L., 4,688,963, Cl. 404-72.000.

Jardin, Hans; and Dworschak, Karl, to Webasto-Werk W. Baier GmbH & Co. Wind deflector assembly for vehicles and installation unit equipped therewith. 4,705,316, 11-10-87, Cl. 296-217.000.

Jardin, Hans: *See—*
Paerisch, Jochen; Herlemann, Werner; Sweigart, Gerhard; Jardin, Hans; and Lutz, Alfons, 4,702,518, Cl. 296-217.000.
Schaetzler, Walter; Schleicher, Bernhard; Igel, Richard; and Jardin, Hans, 4,699,421, Cl. 296-221.000.

Jardin, Stephen C.: *See—*
Chance, Morrell S.; Jardin, Stephen C.; Stix, Thomas H.; Grimm, Ray C., deceased; Manickam, Janardhan; and Okabayashi, Michio, 4,654,184, Cl. 376-133.000.
Janos, Alan C.; Jardin, Stephen C.; and Yamada, Masaaki, 4,687,617, Cl. 376-137.000.

Jareke, Bo: *See—*
Aspervall, Roland; and Jareke, Bo, 4,669,358, Cl. 91-51.000.

Jarema, Ferdinand: *See—*
Ebeling, Joachim; Friedrich, Peter; Jekat, Herbert; Lugscheider, Walter; Riegler, Ernst; Zajicek, Ernst; Achleitner, Walter; and Jarema, Ferdinand, 4,644,557, Cl. 373-22.000.

Jaremco, Gary J.; and Thompson, David G., to Bredero Price, Inc. Method and apparatus for coating the spiral weld seam of pipe. 4,670,301, 6-2-87, Cl. 427-195.000.

Jarisch, Walter; and Makosch, Gunter, to International Business Machines Corporation. Interferometric thickness analyzer and measuring method. 4,653,922, 3-31-87, Cl. 356-357.000.

Jaritz, Erich; and Krammer, Gunter, to Vereinigte Edelstahlwerke Aktiengesellschaft (VEW). Liquid jet cutting machine for cutting workpieces, especially flat workpieces. 4,686,877, 8-18-87, Cl. 83-177.000.

Jarc Extrusions, Inc.: *See—*
Forslin, Gary L., 4,686,805, Cl. 52-208.000.

Jarlsson, Assar K. Highway train. 4,650,205, 3-17-87, Cl. 280-408.000.

Jarman, Davis R.; and Hinson, Virgil H., to Automotive Collision Tools, Inc. Vehicle jack. 4,690,378, 9-1-87, Cl. 254-8.00B.

Jarman, Davis R.; and Hinson, Virgil H., to Grabber Manufacturing Company. Swivel pull tower. 4,712,417, 12-15-87, Cl. 72-447.000.

Jarman, Michael: *See—*
Foster, Allan B.; Jarman, Michael; and Kwan, Chui-Sheung, 4,668,689, Cl. 514-318.000.

Jarnagin, William S. Recyclotron III, a recirculating plasma fusion system. 4,639,348, 1-27-87, Cl. 376-107.000.

Jarnestedt, Goran; and von Campenhausen, Rolf, to Telefonaktiebolaget LM Ericsson. Apparatus for correcting frequency-dependent attenuation of the transmitting medium in signal transmission. 4,639,935, 1-27-87, Cl. 375-11.000.

Jaroni, Ulrich: *See—*
Kugeler, Kurt; Jaroni, Ulrich; Kelm, Wieland; Phlippen, Peter W.; Schmidtlein, Peter; and Kugeler, Manfred, 4,634,875, Cl. 250-506.100.

Jarosinski, Louis. Bathtub unit with improved user features. 4,706,311, 11-17-87, Cl. 4-546.000.

Jarosz, Andrew; and Callahan, Kent, to Northern Telecom Limited. Transformer and ferrite core structure therefor. 4,656,450, 4-7-87, Cl. 336-83.000.

Jarosz, John M.: *See—*
Adler, Robert; and Jarosz, John M., 4,673,918, Cl. 340-365.00P.

Jarowenko, Wadym: *See—*
Trzasko, Peter T.; Tessler, Martin M.; Trksak, Ralph; and Jarowenko, Wadym, 4,687,519, Cl. 106-211.000.

Jarr, Klaus D., to Marley-Wylain Company, The. Leak detector with two stage piston chamber. 4,679,587, 7-14-87, Cl. 137-509.000.

Jarre, Wolfgang: *See—*
Muelier, Gerhard; Marx, Matthias; Jarre, Wolfgang; Baumann, Edwin; and Buethe, Ingolf, 4,668,708, Cl. 521-159.000.

Jarreau, Francois-Xavier; and Koenig, Jean-Jacques, to Etablissements Nativelle S.A. Antiarrhythmic quinidine derivatives. 4,716,171, 12-29-87, Cl. 514-305.000.

Jarrett, Noel, to Aluminum Company of America. Electrolytic cell and method of electrolysis using supported electrodes. 4,664,760, 5-12-87, Cl. 204-67.000.

Jarrett, Peter K.: *See—*
Casey, Donald J.; Jarrett, Peter K.; and Rosati, Louis, 4,716,203, Cl. 525-408.000.

Jarrett, Robert B.: *See—*
Gray, Randall C.; Hess, Robert M.; Jarrett, Robert B.; and Li, Edward E., 4,689,500, Cl. 307-362.000.

Jarrett, Robert D.; and McCain, G. Howard, to BioSpecific Technologies, Inc. Activation of biocompatible polymers with biologicals whose binding complements are pathological effectors. 4,687,808, 8-18-87, Cl. 525-54.100.

Jarrett, Robert D.: *See—*
Honard, Mark R.; Holmes, Mark A.; and Jarrett, Robert D., 4,685,900, Cl. 604-5.000.

Jarrett, Steven M.: *See—*
Carlson, Lee R.; Hegedus, Denes A.; Jarrett, Steven M.; Miller, Michael F.; Riley, Martin E.; and Wright, David L., 4,649,547, Cl. 372-61.000.
Carlson, Lee R.; Hegedus, Denes A.; Jarrett, Steven M.; Miller, Michael F.; Riley, Martin E.; and Wright, David L., 4,683,575, Cl. 372-59.000.
Carlson, Lee R.; Hegedus, Denes A.; Jarrett, Steven M.; Miller, Michael F.; Riley, Martin E.; and Wright, David L., 4,685,109, Cl. 372-61.000.

Jarrow Products Inc.: *See—*
Gerritsen, John T., 4,658,548, Cl. 49-498.000.

Jarry, Alain; Gozard, Jean-Pierre; Kennel, Yves; and Luccioni, Alain, to Rhone-Poulenc Specialites Chimiques. Defined heat treatment, under acidic conditions, of solutions of polysaccharide biopolymers. 4,667,026, 5-19-87, Cl. 536-114.000.

Jarry, Philippe; Haji, Mohamed L.; Guittard, Pierre; Guillemet, Bernard; and Piaget, Claude, to U.S. Philips Corporation. Vitreous semiconductor supporting structure and device realized with such a structure. 4,683,163, 7-28-87, Cl. 428-209.000.

Jartoux, Pierre, to Freyssinet International (STUP). Devices for prestressing concrete having stretched sinuous cables and the methods for implementing same. 4,693,044, 9-15-87, Cl. 52-230.000.

Jarund, Erik, to Devello AB. Thermometer sheath. 4,684,018, 8-4-87, Cl. 206-306.000.

Jarveaux, Frank: *See—*
Wood, Kenneth M.; and Jarveaux, Frank, 4,697,830, Cl. 285-27.000.

Jarvenkyla, Jyri, to Uponor N.V. Plastic pipe. 4,690,174, 9-1-87, Cl. 138-121.000.

Jarvimaki, Kari: *See—*
Tervamaki, Jukka; and Jarvimaki, Kari, 4,690,005, Cl. 73-864.120.

Jarvinen, W. Bruce; and Lukas, Stephen J., to General Electric Company. Control method for direct current motor. 4,697,126, 9-29-87, Cl. 318-331.000.

Jarvis, Allan P., Jr.; Koch, George A.; and Abrams, Paul G., to Damon Biotech, Inc. Induction of immune response by immunization with encapsulated antigen-producing cells. 4,680,174, 7-14-87, Cl. 424-85.000.

Jarvis, Neldon L.: *See—*
  Barger, William R.; Jarvis, Neldon L.; Snow, Arthur W.; and Wohltjen, Henry, 4,636,767, Cl. 338-34.000.
Jarvis, Raymond J.: *See—*
  Wnuck, Wayne G.; Dec, Bryan J.; and Jarvis, Raymond J., 4,654,195, Cl. 419-2.000.
Jarvis, Richard J.; and Jarvis, Stephen A. Apparatus for use in coding spliced film. 4,659,199, 4-21-87, Cl. 352-92.000.
Jarvis, Stephen A.: *See—*
  Jarvis, Richard J.; and Jarvis, Stephen A., 4,659,199, Cl. 352-92.000.
Jasani, Bharat: *See—*
  Newman, Goeffrey R.; Jasani, Bharat; and Williams, Edward D., 4,687,736, Cl. 435-7.000.
Jasin, Maria; and Schimmel, Paul R., to Massachusetts Institute of Technology. Method for deletion of a gene from a bacteria. 4,713,337, 12-15-87, Cl. 435-172.300.
Jasinski, Hubert C. Gold recovery apparatus. 4,673,492, 6-16-87, Cl. 209-477.000.
Jasinski, Joseph M.; Meyerson, Bernard S.; and Scott, Bruce A., to International Business Machines Corporation. Low pressure chemical vapor deposition of tungsten silicide. 4,684,542, 8-4-87, Cl. 437-245.000.
Jasinski, Richard A.; and Mains, Donald M., to Becor Western Inc. Automatic leveling system for blast hole drills and the like. 4,679,489, 7-14-87, Cl. 91-36.000.
Jaskolski, Henry M. Pin machining fixture. 4,650,379, 3-17-87, Cl. 409-220.000.
Jaskolski, Patrick L.; and Eash, Matthew G., to General Electric Company. Mutual inductance NMR RF coil matching device. 4,638,253, 1-20-87, Cl. 324-318.000.
Jason, Barry L., to Motorola, Inc. Current-saving CMOS input buffer. 4,694,201, 9-15-87, Cl. 307-475.000.
Jason, Phillipp; and Jacobson, Mark H. Lock-out device for electrical appliances. 4,653,824, 3-31-87, Cl. 339-37.000.
Jasper Corporation, The: *See—*
  Frobose, James W., 4,671,567, Cl. 297-180.000.
Jasper, Edward P.: *See—*
  Gessel, James M.; Jasper, Edward P.; and Kunz, Gary L., 4,706,448, Cl. 56-400.000.
Jasper, James J. Orthodontic device for correcting the bite. 4,708,646, 11-24-87, Cl. 433-19.000.
Jasper, Louis J., Jr. Active microwave cavity for electron paramagnetic resonance (EPR) apparatus. 4,674,513, 6-23-87, Cl. 128-653.000.
Jasper, Steven C., to Motorola, Inc. Frequency resolution in a digital oscillator. 4,652,832, 3-24-87, Cl. 328-14.000.
Jasper, Steven C., to Motorola, Inc. Method of doppler searching in a digital GPS receiver. 4,701,934, 10-20-87, Cl. 375-1.000.
Jasper, Steven C.: *See—*
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   Libertini, Zoltan; Jen, Hsianmin; and Martinelli, James, 4,641,6
   Cl. 415-138.000.

Jen, Kwan-Yue A.; and Elsenbaumer, Ronald L., to Allied Corpora
tion. Solution processible forms of neutral and electrically conducti
poly(substituted heterocycles). 4,711,742, 12-8-87, Cl. 252-500.00

Jen, Tai-Kuang, to NCR Corporation. Motor speed controlle
4,691,150, 9-1-87, Cl. 318-331.000.

Jen, You Y., to Yann Tay Enterprises Co., Ltd. Pump lever for a jack
4,656,879, 4-14-87, Cl. 74-102.000.

Jenab, S. Abdollah. Hillslope landslide stability drain. 4,714,3
12-22-87, Cl. 405-45.000.

Jencek, Premysl, to Rockwell International Corporation. Extendib
rocket-engine nozzle. 4,706,886, 11-17-87, Cl. 239-265.330.

Jencek, Premysl: *See*—
   Jaqua, Vance W.; and Jencek, Premysl, 4,638,947, Cl. 239-265.4

Jenck, Jean; and Morel, Didier, to Rhone-Poulenc Recherches. Prep
ration of tri-(m-sulfophenyl)-phosphine. 4,668,824, 5-26-87, C
568-15.000.

Jenck, Jean: *See*—
   Dang, Tuan-Phat; Jenck, Jean; and Morel, Didier, 4,654,176, C
   260-505.00R.

Jencks, David R.; and Nelson, Mark R., to Orley's Manufacturing Co
Inc. Catalytic combustion assembly for wood-burning sto
4,690,126, 9-1-87, Cl. 126-77.000.

Jendick, Manfred, to GerroKaiser Dosenwerk GmbH & Co KG
Method and apparatus for lubricating a moving chain. 4,679,6
7-14-87, Cl. 184-15.200.

Jendroska, Juergen: *See*—
   Klein, Hans-Christof; Armonier, Ulrich; Oesterle, Hermann; an
   Jendroska, Juergen, 4,641,519, Cl. 73-129.000.

Jendrzejek, Gary S.: *See*—
   Goss, Reginald J., Jr.; and Jendrzejek, Gary S., 4,644,74 C
   60-395.000.

Jenekhe, Samson A.; and Hansen, Marcia K., to Honeywell Inc.
Method of making electroactive heterocyclic aromatic polymer
4,694,062, 9-15-87, Cl. 528-232.000.

Jenekhe, Samson A.; and Hansen, Marcia K., to Honeywell Inc. Ele
troactive heterocyclic aromatic polymers. 4,711,946, 12-8-87, C
528-251.000.

Jeng, Tzong K., to General Electric Company. One-shot tuning circu
4,679,246, 7-7-87, Cl. 455-183.000.

Jenicot, Jean-Marie. Electric fryer. 4,636,618, 1-13-87, Cl. 219-441.00

Jenike & Johanson, Inc.: *See*—
   Johanson, Jerry R.; and Dick, David S., 4,646,910, Cl. 198-535.00
   Johanson, Jerry R., 4,715,212, Cl. 73-38.000.

Jenison, Robert E. Collapsible dumbbells. 4,695,051, 9-22-87, C
272-122.000.

Jenkins, Andrew H.: *See*—
   Otto, William F.; Roberts, Thomas G.; Jenkins, Andrew H.; an
   Honeycutt, Thomas E., 4,645,448, Cl. 431-1.000.

Jenkins, Andrews H.: *See*—
   Otto, William F.; Jenkins, Andrews H.; Roberts, Thomas G.; an
   Honeycutt, Thomas E., 4,649,955, Cl. 137-624.130.

Jenkins, Dale C., Jr.; and King, Paul G. Method and apparatus fo
signaling attempted suicide. 4,675,659, 6-23-87, Cl. 340-573.000.

Jenkins, Derek K., to Enoxy Chemical Limited. Polymerization o
conjugated dienes. 4,689,368, 8-25-87, Cl. 525-247.000.

Jenkins, Evan J., to International Hydron Corporation. Opaque tinting
process for contact lens. 4,634,449, 1-6-87, Cl. 8-507.000.

Jenkins, Evans M., to Collins & Aikman Corporation. Method of con
tinuously dyeing fabrics containing blends of synthetic fibers an
cellulosic fibers with premetallized dye and polyvinyl pyrrolidone/s
tyrene copolymer. 4,699,625, 10-13-87, Cl. 8-532.000.

Jenkins, Floyd J. Blocking system for stud buildings. 4,658,556, 4-21-8
Cl. 52-317.000.

Jenkins, George M. Gas supply device, particularly for manufacturin
semiconductor elements. 4,672,915, 6-16-87, Cl. 118-124.000.

Jenkins, George W., Jr. In situ stabilization of waste liquid encatch
ments. 4,652,180, 3-24-87, Cl. 405-269.000.

Jenkins, I. Phillip: *See*—
   Sibovits, Jacob; and Jenkins, I. Phillip, 4,677,352, Cl. 315-408.00

Jenkins, Jack E. Captivated, pre-loaded spring means for vacuu
displaced circuit board testing. 4,701,700, 10-20-87, Cl. 324-158.00F

Jenkins, James E. Clothes hanger carrier and storage containe
4,711,383, 12-8-87, Cl. 224-202.000.

Jenkins, James H. Dual duct connector. 4,669,762, 6-2-87, C
285-331.000.

Jenkins, Jerry V.; Sloan, Haskell F.; Frenkel, Robert L.; and Zielinsk
Albert, to Golden Aluminum Company. Container scanning an
accounting device. 4,707,251, 11-17-87, Cl. 209-569.000.

Jenkins, Jimmy R. Combined hobby cabinet and work bench. 4,659,15
4-21-87, Cl. 312-277.000.

ns, John B., Scott, John D.; and Simon, Alois, to Crown Cork & al Canada Inc. High pressure container tester. 4,667,506, 5-26-87, 73-45.200.

ns, John E.; Sperinck, John, and Buller, Michael J., to Rolls-Royce Inlet particle separator. 4,702,071, 10-27-87, Cl. 60-39.092.

ns, John K.; Chiu, John S.; Eckhart, Charles G.; McNamara, Paul Rosenhouse, Stanley; and Youngstrom, Richard E., to Schering rporation. Crystalline sodium (5R, 6S, 8R)-6-(1-hydroxyethyl)-2-carbamoyloxyethylthio)-penem-3-carboxylate and process for king same. 4,634,556, 1-6-87, Cl. 540-310.000.

ns, John W., and Laubach, William F., to TRW Inc. Zero insertion ce connector. 4,684,194, 8-4-87, Cl. 439-260.000.

ns, Kenneth L.; Suhaka, Stanley C.; Dolin, Rick L.; LaRoche, an R.; Hodgson, Robert E.; Such, Neil R.; Smith, Douglas D.; wton, Frank R.; and Cunningham, Richard N., to Manville Corporation. Lightweight asphalt based building materials and process for king same. 4,634,622, 1-6-87, Cl. 428-143.000.

ns, Leonard S., to Westinghouse Electric Corp. Nuclear reactor lant pump impeller/shaft assembly. 4,690,612, 9-1-87, Cl. -112.000.

ns, Linda A., to Ciba-Geigy Corporation. Tris (substituted hydroxenylthio) trithioorthoester stabilizers for polymers. 4,659,762, 1-87, Cl. 524-331.000.

ns Metal Corporation. See—
eonard, Robert C., 4,685,285, Cl. 57-356.000.

ns, Peter D., to British Telecommunications plc. Optical fibre ing assembly. 4,707,065, 11-17-87, Cl. 350-96.200.

ns, R. W.: See—
IacDonald, R. I.; Lam, D. K. W.; and Jenkins, R. W., 4,696,059, Cl. 455-600.000.

ns, Richard A., to Moore Business Forms, Inc. Windowed mailer h return envelope for remittance document, having return mail-to ress exposed by removal of original mail-to label. 4,706,877, 17-87, Cl. 229-73.000.

ns, Richard M.: See—
onder, Philip C.; Jenkins, Richard M.; and Redding, James R., 4,662,958, Cl. 156-89.000.

ns, Robert H., Jr.; Mitchell, Edward; Gaetani, Frank J.; Mahusky, n J.; and Hall, Marilyn, to Texaco Inc. Carrier composition for oducing additives to a motor fuel. 4,713,087, 12-15-87, Cl. 3.000.

ns, Robert H., Jr.: See—
ang, Rodney L., and Jenkins, Robert H., Jr., 4,643,737, Cl. 44-63.000.
ang, Rodney L., and Jenkins, Robert H., Jr., 4,643,738, Cl. 44-63.000.

ns, Scott A., to University of California, The Regents of the paratus for impeding fine sediment deposition in harbors and igational channels. 4,661,013, 4-28-87, Cl. 405-74.000.

ns, Stephen R.: See—
omba, Frank C., and Jenkins, Stephen R., 4,706,190, Cl. 364-200.000.

ns, Steven R.: See—
omba, Frank C.; Schumann, Reinhard; Jenkins, Steven R.; and Binder, Paul, 4,661,905, Cl. 364-200.000.

ns, Stuart M.; Spencer, Michael S.; and Mayfield, Ross, to De La e Systems Limited. Sheet dispensing apparatus. 4,709,820, 12-1-87, 209-534.000.

ns, Thomas C.: See—
almquist, Donald L., and Jenkins, Thomas C., 4,642,317, Cl. 514-558.000.

ns, Thomas E.: See—
erdes, Keith W.; Corts, Douglas E.; Jenkins, Thomas E.; Lesmeister, Stephen C.; and Welle, Louis A., Sr., 4,644,698, Cl. 49-478.000.

ns, Vaughn J.: See—
ilson, Bart A.; Jenkins, Vaughn J.; and Fonnesbeck, Dale D., 4,714,837, Cl. 307-289.000.

ns, Walter N., to National Research Development Corporation. thod of distributing liquid onto a substrate. 4,647,471, 3-3-87, Cl. -37.000.

ns, Walter N.; and Davies, Gordon I., to National Research Development Corporation. Producing directed spray. 4,681,258, 7-21-87, 239-66.000.

ns, Walter N.: See—
inger, Alfred R. E.; Jenkins, Walter N.; and Alibhai, Asgar M. H., 4,657,787, Cl. 427-319.000.

ns, Waylon L.; Hodge, Deborah T.; and Sampson, Kendree J., to stman Kodak Company. Process for preparing copolymers of ylene and vinyl acetate. 4,649,186, 3-10-87, Cl. 526-87.000.

ns, William D.: See—
hoades, Lawrence J.; Jenkins, William D.; and Pertle, David D., 4,681,600, Cl. 51-293.000.

ns, William R.: See—
lorn, Charles, deceased, and Jenkins, William R., 4,709,574, Cl. 72-405.000.

nson, George H.: See—
ortner, Earl D.; Jenkinson, George H.; and Paredes, Edward A., 4,675,475, Cl. 174-113.00R.

nson, Ronald J., to Exxon Research and Engineering Company. paratus for controlling the temperature in catalyst regeneration. 0,802, 9-1-87, Cl. 422-141.000.

er, Detlef. Device for supporting a long and narrow workpiece ndle produced on a panel splitting saw. 4,676,132, 6-30-87, Cl. 437.000.

Jenkner, Detlef. Process for trimming and splitting up boards having unfinished edges, such as edges still covered with bark, and apparatus for performing the process. 4,688,614, 8-25-87, Cl. 144-378.000.

Jenkner, Erwin. Workpiece supporting table for panel saws. 4,644,833, 2-24-87, Cl. 83-99.000.

Jenkner, Erwin. Process for the manufacture of panel-type workpieces with assembly bores, more particularly, made of wood or wood-like material and apparatus for performing the process. 4,694,871, 9-22-87, Cl. 144-35.00R.

Jenks, Charles C. Bowstring release device and adjustable bow sight. 4,656,994, 4-14-87, Cl. 124-23.00R.

Jenks, Morton B.: See—
Carreras, Richard A.; Cusumano, Salvatore J.; Jenks, Morton B.; and Suizu, Robert I., 4,667,090, Cl. 250-201.000.

Jenn, Louis J., to Atrium Structures, Inc. Waterfront structure. 4,653,240, 3-31-87, Cl. 52-169.200.

Jenn, Louis J., to Atrium Structures, Inc. Preconstructed multiple-unit housing. 4,685,260, 8-11-87, Cl. 52-169.300.

Jenne, Fred B.: See—
Shrivastava, Rituparna; Bloker, Raymond E.; and Jenne, Fred B., 4,647,956, Cl. 357-42.000.

Jenne, Helmut: See—
Pohrt, Juergen; Matern, Ruediger; Jenne, Helmut; Gausepohl, Hermann, and Gerberding, Karl, 4,647,621, Cl. 525-71.000.

Jennens, Eric G. Inshore submersible amphibious machines. 4,713,896, 12-22-87, Cl. 37-54.000.

Jenner, Earle H., to International Business Machines Corporation. Method and apparatus for restarting a computing system. 4,648,031, 3-3-87, Cl. 364-200.000.

Jenner, Michael D.; and Lamb, Joy A., to U.S. Philips Corporation. Thermal imaging device and a method of manufacturing a thermal imaging device. 4,663,529, 5-5-87, Cl. 250-338.000.

Jennerjahn, Paul H.: See—
Freund, Michael A.; Jennerjahn, Paul H., and Kusche, David W., 4,668,199, Cl. 440-89.000.

Jennerjohn, Dennis A.: See—
Brown, Charles A.; Jennerjohn, Dennis A., and Moeller, Richard E., 4,687,892, Cl. 219-8.500.

Jenness, Raymond C., to Allis-Chalmers Corporation. Grinding mill apparatus. 4,648,561, 3-10-87, Cl. 241-34.000.

Jenness, Timothy A., to Tektronix, Inc. Image distortion correction method and apparatus. 4,673,986, 6-16-87, Cl. 358-242.000.

Jennewein, Hans M.: See—
Banholzer, Rolf; Merz, Herbert; Stockhaus, Klaus; and Jennewein, Hans M., 4,699,910, Cl. 514-255.000.

Jenning, Michael; and Mackenthun, Holger, to Angewandte Digital Elektronik GmbH. Means for non-contacting signal and energy transmission. 4,697,183, 9-29-87, Cl. 340-870.250.

Jenning, Michael: See—
Kreft, Hans-Diedrich; Jenning, Michael; Mackenthun, Holger; Baik, Thorten; and Niznik, Thomas, 4,698,996, Cl. 73-1.00J.

Jennings, Alfred R.; Muegge, Ernest L.; and Wilson, Peggy M., to Mobil Oil Corporation. High impulse energy and liquid membrane scale removal. 4,671,360, 6-9-87, Cl. 166-312.000.

Jennings, Alfred R., Jr., to Mobil Oil Corporation. Minimizing formation damage during gravel pack operations. 4,664,191, 5-12-87, Cl. 166-276.000.

Jennings, Alfred R., Jr., and Strubhar, Malcolm K., to Mobil Oil Corporation. Method to improve vertical hydraulic fracturing in inclined wellbores. 4,669,546, 6-2-87, Cl. 166-308.000.

Jennings, Alfred R., Jr.; and Strubhar, Malcolm K., to Mobil Oil Corporation. Technique for improving gravel pack operations in deviated wellbores. 4,703,799, 11-3-87, Cl. 166-276.000.

Jennings, Alfred R., Jr., to Mobil Oil Corporation. Removing particulate matter from a non-dissoluble sand control pack. 4,708,206, 11-24-87, Cl. 166-281.000.

Jennings, Alfred R., Jr., to Mobil Oil Corporation. Gravel pack void space removal via high energy impulse. 4,711,302, 12-8-87, Cl. 166-250.000.

Jennings, Alfred R., Jr.: See—
Ando, Milton K.; and Jennings, Alfred R., Jr., 4,679,629, Cl. 166-281.000.
Chung, Harold S.; Jennings, Alfred R., Jr.; and Strom, Edwin T., 4,702,316, Cl. 166-272.000.
Chung, Harold S.; Jennings, Alfred R., Jr.; and Strom, Edwin T., 4,702,318, Cl. 166-274.000.

Jennings, Baldwin P., Jr.; and Kivlighan, Pamela M. Safety blood sample apparatus. 4,643,199, 2-17-87, Cl. 128-763.000.

Jennings, Baldwin P., Jr. Safety blood donor apparatus. 4,643,200, 2-17-87, Cl. 128-763.000.

Jennings, Baldwin P., Jr. Medical syringe. 4,650,468, 3-17-87, Cl. 604-110.000.

Jennings, Charles E.; and Thames, Edward E., to Vetco Gray Inc. Hydraulic collet-type connector. 4,708,376, 11-24-87, Cl. 285-315.000.

Jennings, Dean C., to National Semiconductor Corporation. Lateral subsurface zener diode. 4,672,403, 6-9-87, Cl. 357-13.000.

Jennings, Deborah J.; and Vichroski, Thomas J., to Estee Lauder Inc. Cosmetic composition. 4,699,780, 10-13-87, Cl. 424-60.000.

Jennings, Freddie L. Universal muffler construction assembly. 4,635,752, 1-13-87, Cl. 181-241.000.

Jennings, Glenn A., to University of California, The Regents of the. Dynamic activity-creating data-driven computer architecture. 4,644,461, 2-17-87, Cl. 364-200.000.

Jennings, Hamlin: See—
Grimes, John W., II; Jennings, Hamlin; and Brown, Paul W., 4,705,949, Cl. 250-440.100.

Jennings, J. Thomas, to Container Mfg. Inc. Measuring container with modified pour-spout and method and apparatus for filling the same. 4,646,948, 3-3-87, Cl. 222-454.000.

Jennings, James K.: *See*—

Wing, Phillip L.; Jennings, James K., and Lamb, Terry L., 4,657,790, Cl. 427-374.100.

Jennings, James R., to Imperial Chemical Industries PLC. Catalysts for ammonia synthesis and process for producing the catalyst. 4,654,320, 3-31-87, Cl. 502-328.000.

Jennings, James R., to Imperial Chemical Industries PLC. Iron catalyst and method of producing it. 4,668,657, 5-26-87, Cl. 502-328.000.

Jennings, James R., to Imperial Chemical Industries PLC. Iron catalyst and method of producing it. 4,668,658, 5-26-87, Cl. 502-336.000.

Jennings, James R., to Imperial Chemical Industries PLC. Catalyst precursor for ammonia synthesis and process for its production. 4,689,317, 8-25-87, Cl. 502-330.000.

Jennings, James R.: *See*—

Andrew, Sydney P. S.; and Jennings, James R., 4,698,325, Cl. 502-330.000.

Jennings, James R., Jr., to RCA Corporation. Drive circuit for pincushion corrector. 4,686,430, 8-11-87, Cl. 315-371.000.

Jennings, Michael W. Container inverter. 4,685,553, 8-11-87, Cl. 198-405.000.

Jennings, Ralph N., to Triad Metal Products Company. Reuseable clamp with an outwardly projecting ear on each opposing end and having a hook shaped projection on one ear adapted for interlocking coaction with an opening in the other ear. 4,713,863, 12-22-87, Cl. 24-20.00R.

Jennings, Richard E., to New Holland Inc. Round baler apron tensioning system. 4,656,820, 4-14-87, Cl. 56-341.000.

Jennings, Thomas J.; Tripp, Lloyd D., Jr.; Howell, Lora L.; and Loukoumidis, Dimitrios G., to United States of America, Air Force. Anti-G suit. 4,674,479, 6-23-87, Cl. 128-1.00A.

Jennings, Thomas P.: *See*—

Simonds, Gary; Jennings, Thomas P.; and Gallops, Henry, 4,693,228, Cl. 124-25.000.

Jennings, Uel D., to Du Pont de Nemours, E. I., and Company. Process for producing high tenacity polyhexamethylene adipamide yarn having ribbon cross-section filaments. 4,702,875, 10-27-87, Cl. 264-177.130.

Jennmar Corporation: *See*—

Calandra, Frank, Jr., 4,678,374, Cl. 405-261.000.

Yacisin, Paul A., 4,679,966, Cl. 405-261.000.

Jenny, Ernst, to BBC Brown, Boveri & Company, Limited. Process and device for operating a diesel engine with an exhaust-gas particle filter. 4,702,075, 10-27-87, Cl. 60-274.000.

Jeno, Pojbics: *See*—

Janos, Antal; and Jeno, Pojbics, 4,712,822, Cl. 296-24.00R.

Jenoptik Jena GmbH: *See*—

Baumann, Hans-Georg, 4,634,234, Cl. 350-414.000.

Falk, Heinz, 4,660,976, Cl. 356-312.000.

Florek, Stefan; Becker-Ross, Helmut; Dobschal, Hans-Jurgen; and Mohr, Joachim, 4,690,559, Cl. 356-328.000.

Furchert, Hans-Juergen, 4,656,408, Cl. 318-653.000.

Nebe, Wolfgang; Reichel, Jutta; Biehler, Klaus; Lucht, Hartmut; and Drommert, Heinz, 4,691,110, Cl. 250-458.100.

Quillfeldt, Winfried; Naumann, Bernd; and Becker-Ross, Helmut, 4,711,572, Cl. 356-311.000.

Jens, Michael J.: *See*—

Edejer, Merardo P.; Ford, Roger S.; Jailor, John J.; and Jens, Michael J., 4,692,754, Cl. 340-671.000.

Jens Peter Hansen, Aarhus A/S: *See*—

Hansen, Jens Peter S., 4,716,043, Cl. 426-35.000.

Jensen, Arden T., Jr.; and Turner, Bernus G., to Boeing Company, The. Integral hydraulic blocking and relief valve. 4,667,570, 5-26-87, Cl. 91-420.000.

Jensen, Borge: *See*—

Skovdal, Jorgen; Santhouse, Daniel; Jensen, Borge; and Carlucci, Vito, 4,680,444, Cl. 219-222.000.

Jensen, Brian D.: *See*—

Roassin, Michael A.; Fidler, Jerry D.; and Jensen, Brian D., 4,679,857, Cl. 299-37.000.

Jensen, C. Allen: *See*—

Lang, Paul W.; and Gribshaw, Franklin C., 4,679,574, Cl. 131-365.000.

Jensen, Craig L.: *See*—

Sawtell, Ralph R.; Bretz, Philip E.; and Jensen, Craig L., 4,689,090, Cl. 148-2.000.

Jensen, Craig M.: *See*—

Trogler, William C.; and Jensen, Craig M., 4,684,751, Cl. 568-898.000.

Jensen, Dale: *See*—

Ryzin, Joseph V.; Andres, Jose M.; Jensen, Dale; and Ruggieri, Robert, 4,662,904, Cl. 55-158.000.

Jensen, Deborah P.: *See*—

Jensen, Tom M.; Yoshimura, Frederick T.; and Jensen, Deborah P., 4,640,525, Cl. 280-642.000.

Jensen, Tom M.; Yoshimura, Frederick T.; and Jensen, Deborah P., 4,678,202, Cl. 280-642.000.

Jensen, Dennis; and Tessier, Robert, to Automated Electronic Technology, Inc. Testsite system. 4,675,599, 6-23-87, Cl. 324-158.00F.

Jensen, Edward J., to General Motors Corporation. Engine ignition timing by combustion pressure harmonic phase difference. 4,699,105, 10-13-87, Cl. 123-425.000.

Jensen, Edward J., to General Motors Corporation. Engine dilution control by combustion pressure harmonic amplitude ratio. 4,699,1 10-13-87, Cl. 123-435.000.

Jensen, Eric. Fire starter. 4,698,068, 10-6-87, Cl. 44-39.000.

Jensen, Eric A.; Hitchin, James; Tsai, Albert G.; and Arrhenius, Gusta O., to Thermal Energy Stroage, Inc. Latent heat storage and transfe system and method. 4,696,338, 9-29-87, Cl. 165-1.000.

Jensen, Erling. Frying device. 4,691,690, 9-8-87, Cl. 126-390.000.

Jensen, Ernst: *See*—

Penner, Horst; and Jensen, Ernst, 4,697,524, Cl. 102-498.000.

Jensen, Finn H.: *See*—

Madsen, Willy B.; Jensen, Finn H.; Rasmussen, Ole B.; Goldstei Guy; and Roussin-Moynier, Yves R., 4,636,419, Cl. 428-131.00

Jensen, Finn U. H., to Kongskilde Koncernselskab A/S. Resilientl mounted earth smoothing roller. 4,648,465, 3-10-87, Cl. 172-551.00

Jensen, Garold K. Secure reliable transmitting and receiving system fo transfer of digital data. 4,638,496, 1-20-87, Cl. 375-104.000.

Jensen, Georg: *See*—

Holst, Svend; Jensen, Niels; and Jensen, Georg, 4,679,354, C 51-76.00R.

Jensen, Gordon A.; Reames, Stephen P.; Morris, Jerry D.; and Nea Scott S., to Hewlett Packard Company. Runt packet filter. 4,679,19 7-7-87, Cl. 370-94.000.

Jensen, Hans E. W.; and Gregersen, Johan C., to Dansk Eternit-Fabri A/S. Method of rolling a plastically deformable material. 4,636,34 1-13-87, Cl. 264-122.000.

Jensen, Holger: *See*—

Clausen, Erik; Clausen, Johannes; Jensen, Holger; and Starlsso Finnur, 4,636,035, Cl. 350-128.000.

Jensen, J. Kermit: *See*—

Bush, Harold G.; Mikulas, Martin M., Jr.; Wallsom, Richard E and Jensen, J. Kermit, 4,685,535, Cl. 182-63.000.

Jensen, Jakob, to Logicar A/S. Convertible car. 4,712,827, 12-15-87, C 296-99.00R.

Jensen, James W.: *See*—

Thompson, Roger A.; Jensen, James W.; and Templeton, Dani L., 4,704,171, Cl. 156-64.000.

Jensen, Jan: *See*—

Jensen, Niels D.; and Jensen, Jan, 4,647,228, Cl. 384-420.000.

Jensen, Jay E.: *See*—

Grosser, Richard W.; and Jensen, Jay E., 4,677,567, C 364-502.000.

Jensen, Jens R.: *See*—

Christensen, Finn N.; Jensen, Jens R.; and Bechgaard, Hel 4,657,755, Cl. 424-1.100.

Kjornaes, Kim; Christensen, Finn N.; and Jensen, Jens R 4,716,041, Cl. 424-468.000.

Jensen, Jorgen S., to Band & Olufsen A/S. Level indicating metho and means. 4,706,289, 11-10-87, Cl. 381-56.000.

Jensen, Klaus G.: *See*—

Lassen, Niels; Bogeso, Klaus P.; and Jensen, Klaus G., 4,650,90 Cl. 564-56.000.

Jensen, Lars K. W. Rinsing apparatus for flat objects. 4,658,842, 4-21-87 Cl. 134-188.000.

Jensen, Leif H.: *See*—

Watjen, Frank; Engelstoft, Mogens; Hansen, John B.; and Jensen Leif H., 4,670,433, Cl. 514-210.000.

Jensen, Leif L., to Pedersen, Johannes. Silencer and a method of manufacturing the silencer. 4,674,594, 6-23-87, Cl. 181-243.000.

Jensen, Martin J.: *See*—

Cooley, Stephen E.; and Jensen, Martin J., 4,692,591, C 219-295.000.

Jensen, Marvin E.: *See*—

Tokarz, Joseph S.; and Jensen, Marvin E., 4,681,572, C 604-329.000.

Jensen, Michael L.: *See*—

Triplett, James T.; Germeraad, Paul B.; Chan, Randolph W.; an Jensen, Michael L., 4,700,054, Cl. 219-545.000.

Jensen, Millard J.: *See*—

Levine, Jules D.; Jensen, Millard J.; and Haney, Ronald E 4,691,076, Cl. 136-250.000.

Jensen, Mogens P. Method for enclosing a body in a relatively thick enclosure of elastic material. 4,686,755, 8-18-87, Cl. 29-450.000.

Jensen, Niels: *See*—

Holst, Svend; Jensen, Niels; and Jensen, Georg, 4,679,354, C 51-76.00R.

Jensen, Niels D.; and Jensen, Jan, to Grundfos A/S. Height adjusting device for machines or machine elements. 4,647,228, 3-3-87, C 384-420.000.

Jensen, Norman E.; and Kelley, Bennett W., to United States of America, Air Force. Safe/arm explosive transfer mechanism. 4,667,60 5-26-87, Cl. 102-254.000.

Jensen, Norman P.: *See*—

Chang, Michael N.; Jensen, Norman P.; Hammond, Milton L Zambias, Robert A.; McDonald, John; and Rupprecht, Kathleen M., 4,686,235, Cl. 514-520.000.

Jensen, Ole R., to E. R. Squibb & Sons, Inc. Method for joining a tube to a collection pouch. 4,650,452, 3-17-87, Cl. 493-206.000.

Jensen, Ole R.; and Ferguson, Keith T., to E. R. Squibb & Sons, Inc Male incontinence device. 4,673,401, 6-16-87, Cl. 604-353.000.

Jensen, Otto S. Oil drop collector. 4,695,088, 9-22-87, Cl. 296-38.000

Jensen, Patricia A.: *See* –

Essen, Robert L.; Glace, William R.; and Jensen, Patricia A. 4,674,980, Cl. 433-228.100.

Jensen, Peter A. Cooperative exercising apparatus. 4,634,118, 1-6-87 Cl. 272-117.000.

nsen, Peter J.: *See—*

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nsen, Reed J.: *See—*

Robinson, C. Paul; Rockwood, Stephen D.; Jensen, Reed J.; Lyman, John L.; and Aldridge, Jack P., III, 4,655,890, Cl. 204-157.220.

Robinson, C. Paul; Jensen, Reed J.; Cotter, Theodore P.; Greiner, Norman R.; and Boyer, Keith, 4,661,221, Cl. 204-157.220.

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Braun, Rudolf; and Jensen, Richard, 4,657,615, Cl. 156-245.000.

nsen, Richard H., to Ancra Corporation. Rattle-proof anchor fitting for securing loads to retainer track. 4,708,549, 11-24-87, Cl. 410-105.000.

nsen, Robert H., to UOP Inc. Process for conversion of light aliphatic hydrocarbons to aromatics. 4,642,402, 2-10-87, Cl. 585-411.000.

nsen, Robert K. Ocean thermal energy conversion hydro well apparatus. 4,703,626, 11-3-87, Cl. 60-641.700.

nsen, Robert M. Top inlet baghouse construction. 4,648,889, 3-10-87, Cl. 55-341.0NT.

nsen, Roger A., and Wolfe, John M., to Jensen, Roger A. Screen printing assembly. 4,704,961, 11-10-87, Cl. 101-114.000.

nsen, Susan: *See—*

Wolfe, Saul; Westlake, Donald; and Jensen, Susan, 4,693,977, Cl. 435-180.000.

sen, Thomas H., to PPG Industries, Inc. Hollow fiber bushing and hollow fiber tip construction. 4,698,082, 10-6-87, Cl. 65-1.000.

sen, Thomas W.: *See—*

Hayes, Alan B.; Brown, Russell A.; Jensen, Thomas W.; and Madsen, Bruce K., 4,646,251, Cl. 364-518.000.

sen, Tom M., to Boeing Company, The. Airborne folding wheelchair. 4,639,012, 1-27-87, Cl. 280-642.000.

sen, Tom M.; Yoshimura, Frederick T.; and Jensen, Deborah P., to Boeing Company, The. Folding wheelchair. 4,640,525, 2-3-87, Cl. 80-642.000.

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Serban, Alexander; and Jensen, Wendy A., 4,675,047, Cl. 71-92.000.

sen, William L., Jr. Azimuth orientation device. 4,686,929, 8-18-87, Cl. 116-318.000.

sen, William S.: *See—*

Pardo, Jacob; and Jensen, William S., 4,687,127, Cl. 277-12.000.

en, Willy H., to Laboratorios Leo S.A. Method of comminuting frozen animal organs or frozen animal tissue. 4,663,087, 5-5-87, Cl. 30-305.000.

ry, Danny R. Quick attach and release base. 4,682,561, 7-28-87, Cl. 14-363.000.

zsch, Arndt; Johne, Hans; Muller, Wolfgang; Waurig, Reiner; and achers, Horst, to VEB Kombinat Polygraph "Werner Lamberz" eipzig. Ink dosage adjusting device for ink zone supply in a printing achine. 4,669,382, 6-2-87, Cl. 101-365.000.

zsch, Horst; and Schuppler, Berthold. System for exhausting and ollecting gases, in particular motor vehicle exhaust gases in assembly factory halls. 4,660,465, 4-28-87, Cl. 98-115.400.

sch, Gunter; Rauh, Kurt; and Wegscheider, Hans J., to Mirbeth, adolph. Vibratory decoring apparatus for castings. 4,637,558, 20-87, Cl. 241-79.000.

OL Ltd.: *See—*

Aoyama, Masaaki; Itabashi, Mitsuharu; Miura, Mariko; and Kohno, Masahiro, 4,696,905, Cl. 436-64.000.

Eguchi, Keiji; and Komatsu, Kunito, 4,652,827, Cl. 324-322.000.

Kamo, Osamu; Ohuchi, Muneki; and Matsushita, Kazuhiro, 4,641,096, Cl. 324-311.000.

Kato, Shoji, 4,703,234, Cl. 315-5.410.

Matsumoto, Matsuo; and Nagayama, Kumaki, 4,675,071, Cl. 156-621.000.

Nagayama, Kumaki, 4,714,882, Cl. 324-307.000.

Naito, Motohiro, 4,645,928, Cl. 250-282.000.

Ohuchi, Muneki, 4,677,383, Cl. 324-309.000.

Saito, Toshinori; and Takeuchi, Makoto, 4,681,513, Cl. 417-2.000.

Sawaragi, Hiroshi, 4,710,639, Cl. 250-492.200.

Seto, Haruo; Furihata, Kazuo; and Ohuchi, Muneki, 4,689,561, Cl. 324-307.000.

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Huh, Myung H.; and Jeon, Je S., 4,635,384, Cl. 36-29.000.

cott, Edmund F. N. Vehicle body tilting mechanism. 4,660,853, 28-87, Cl. 280-772.000.

el, Wolfgang: *See—*

Diskowski, Jorg; Jeppel, Wolfgang; Moisel, Hartmut; and Spiess, Hans P., 4,674,061, Cl. 364-571.000.

esen, James H., III; and Whittaker, Bruce E., to Burroughs Corporation. Power control network using reliable communications protocol. 4,635,195, 1-6-87, Cl. 364-200.000.

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Whittaker, Bruce E.; Jeppesen, James H., III; and Beale, Andrew W., 4,658,353, Cl. 364-200.000.

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sson, Jan, to Boeing Company, The. Adaptive feed rate override stem for a milling machine. 4,698,773, 10-6-87, Cl. 364-474.000.

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Dahlberg, Bengt A. G.; Jeppsson, Jan-Bertil; Ohlsson, Lars I.; and Simonsson, Tord B., 4,650,458, Cl. 604-5.000.

ek, Jiri, to TELSA, koncernovy podnik. Magnetotherapeutic pulse device. 4,693,238, 9-15-87, Cl. 128-1.500.

Jerabek, Richard J., to Moore Business Forms, Inc. Carbonless system including solvent-only microcapsules. 4,636,818, 1-13-87, Cl. 346-213.000.

Jerabek, Robert D.: *See—*

Zwack, Robert R.; and Jerabek, Robert D., 4,666,970, Cl. 524-399.000.

Jeremijevic, Vojin, to Benson, S.A. Development installation and storage device for electrostatic printer using a liquid developer. 4,634,252, 1-6-87, Cl. 354-324.000.

Jergenson, Jerg B., to Hughes Aircraft Company. Liquid metal ion source. 4,638,210, 1-20-87, Cl. 313-362.100.

Jergl, Joseph J.: *See—*

Kump, William H.; and Jergl, Joseph J., 4,645,725, Cl. 429-179.000.

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Jerila, Torsti T. T., to Acme General Corporation. Pivot block for bifold doors. 4,644,992, 2-24-87, Cl. 160-213.000.

Jering, Helmut: *See—*

Baier, Manfred; Jering, Helmut; and Klose, Sigmar, 4,670,383, Cl. 435-7.000.

Jerinic, George; Steele, Robert; and Fines, James R., to Raytheon Company. Dual diode module with heat sink, for use in a cavity power combiner. 4,689,583, 8-25-87, Cl. 331-56.000.

Jerman, Zdenek: *See—*

Najmr, Stanislav; Jerman, Zdenek; and Kralicek, Jaroslav, 4,685,935, Cl. 23-304.000.

Jermann, Daniel: *See—*

Merkli, Peter; and Jermann, Daniel, 4,708,561, Cl. 412-25.000.

Jermansen, Torris G.: *See—*

Oswald, Alexis A.; Jermansen, Torris G.; Westner, Andrew A.; and Huang, I-Der, 4,687,866, Cl. 556-18.000.

Oswald, Alexis A.; Jermansen, Torris G.; Westner, Andrew A.; and Huang, I-Der, 4,687,874, Cl. 568-454.000.

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Oswald, Alexis A.; Jermasen, Torris G.; Westner, Andrew A.; and Huang, I-Der, 4,668,809, Cl. 556-18.000.

Jernberg, Gary R. Local delivery of chemotherapeutic agents for the treatment of periodontal disease. 4,685,883, 8-11-87, Cl. 433-215.000.

Jernberg, Robert H., to Pressure Pak, Inc. Method and apparatus for filling tanks with liquified gas. 4,667,708, 5-26-87, Cl. 141-1.000.

Jernigan, Edward L.: *See—*

Lombardo, Frank; Jernigan, Edward L.; and Furze, Paul, 4,637,856, Cl. 156-637.000.

Jeromin, Lothar S.; and Noon, Richard E., to Xerox Corporation. Image density controller. 4,662,313, 5-5-87, Cl. 118-691.000.

Jeromin, Lutz; Krings, Heinrich; Legel, Dieter; Novotny, Rudolf; and Skrobek, Harald, to Henkel Kommanditgesellschaft auf Aktien. Continous production of sodium silicate solutions. 4,676,953, 6-30-87, Cl. 422-106.000.

Jeromin, Lutz; Peukert, Eberhard; and Wollmann, Gerhard, to Henkel Kommanditgesellschaft auf Aktien. Process for the pre-esterification of free fatty acids in fats and oils. 4,698,186, 10-6-87, Cl. 260-421.000.

Jeromin, Lutz: *See—*

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Eckwert, Klemens; Jeromin, Lutz; Meffert, Alfred; Peukert, Eberhard; and Gutsche, Bernhard, 4,647,678, Cl. 549-528.000.

Jerone Technologies, Inc.: *See—*

Smith, Edgar D., 4,701,090, Cl. 413-13.000.

Jerrim, John W.; and Horwitz, Lawrence B., to Sangamo Weston, Inc. Timing signal correction system for use in direct sequence spread signal receiver. 4,653,076, 3-24-87, Cl. 375-115.000.

Jerrold Electronics Corp.: *See—*

Lin, Wen T., 4,688,097, Cl. 380-15.000.

Jersey Nuclear-Avco Isotopes, Inc.: *See—*

Pike, Charles T.; Furumoto, Horace W.; and Levin, Lawrence A., 4,636,287, Cl. 204-157.150.

Jershin, James T. Apparatus for supporting a fishing rod holder. 4,640,038, 2-3-87, Cl. 43-17.000.

Jerson, Donald D.: *See—*

Kwiecinski, James R.; and Jerson, Donald D., 4,661,397, Cl. 428-241.000.

Jervis B. Webb Company: *See—*

Dehne, Clarence A., 4,640,196, Cl. 104-94.000.

Dehne, Clarence A.; and MacMunn, George D., 4,669,388, Cl. 104-162.000.

Pachuta, Martin, 4,687,349, Cl. 384-477.000.

Jervis, Gary F.: *See—*

Fettes, Ian; and Jervis, Gary F., 4,654,971, Cl. 30-383.000.

Jervis, James E., to Raychem Corporation. Medical devices incorporating sim alloy elements. 4,665,906, 5-19-87, Cl. 128-92.0YN.

Jeschke, Norbert: *See—*

Klee, Gerhard; Gerk, Wilfried; and Jeschke, Norbert, 4,697,454, Cl. 82-1.500.

Jeschke, Peter; Altenschoepfer, Theodor; Jacobs, Jochen; and Schumann, Klaus, to Henkel Kommanditgesellschaft auf Aktien. Block-form detergent free from alkali hydroxides for use in dishwashing machines and a process for its production. 4,690,770, 9-1-87, Cl. 252-99.000.

Jeschke, Peter: *See—*

Buschmann, Rudiger; Ganz, Rudolf; Willmann, Gerd; Wirth, Ludwig; Elstner, Ingo; and Jeschke, Peter, 4,710,480, Cl. 501-95.000.

Pohl, Siegfried; Luhrsen, Ernst; Jeschke, Peter; Rave, Ortwin; Kienow, Martin; and Richter, Werner, 4,634,685, Cl. 501-100.000.

Sung, Eric; Jeschke, Peter; Schumann, Klaus; and Altenschoepfer, Theodor, 4,692,260, Cl. 252-99.000.

Jeschke, Willi; and Becker, Willi, to Heidelberger Druckmaschinen AG. Guiding drum for sheet-fed printing machines, especially for cardboard. 4,667,952, 5-26-87, Cl. 271-277.000.

Jeschke, Willi, to Heidelberger Druckmaschinen AG. Sheet turning device for small offset printing machines or printing units. 4,669,715, 6-2-87, Cl. 271-65.000.

Jeschke, Willi, to Heidelberger Druckmaschinen AG. Register system for in-register alignment or orientation of a flexible printing plate. 4,679,502, 7-14-87, Cl. 101-415.100.

Jeschke, Willi; Kipphan, Helmut; and Loffler, Gerhard, to Heidelberger Druckmaschinen AG. Method of determining the area coverage of a printed original or printing plate for printing presses. 4,681,455, 7-21-87, Cl. 356-445.000.

Jeschke, Willi, to Heidelberger Druckmaschinen AG. Device for metering ink in offset printing presses. 4,699,055, 10-13-87, Cl. 101-350.000.

Jeschke, Willi; and Pollich, Gerhard, to Heidelberger Druckmaschinen AG. Apparatus and method for aligning sheets. 4,702,469, 10-27-87, Cl. 271-227.000.

Jeschke, Willi, to Heidelberger Druckmaschinen AG. Device for securing flexible printing plates under tension on a plate cylinder of a rotary printing machine. 4,712,476, 12-15-87, Cl. 101-415.100.

Jeserich, Wolfgang-Dieter: *See—*

Elbs, Peter; Jeserich, Wolfgang-Dieter; and Wehr, Rudolf, 4,642,211, Cl. 264-85.000.

Jeskey, Richard V., to Incom, Inc. Optical apparatus. 4,647,152, 3-3-87, Cl. 350-96.240.

Jeskey, Richard V., to Incom, Inc. Faceplate incorporating an off-axis filter. 4,669,813, 6-2-87, Cl. 350-96.100.

Jeskey, Richard V., to Incom, Inc. Optical apparatus. 4,693,552, 9-15-87, Cl. 350-96.240.

Jespersen, Knud: *See—*

Buller-Colthurst, Guy E.; and Jespersen, Knud, 4,658,718, Cl. 100-194.000.

Jespersen, Nils V.; and Quine, John P., to General Electric Company. H-plane stacked waveguide power divider/combiner. 4,673,899, 6-16-87, Cl. 333-137.000.

Jespersen, Paul W.; and DeLuca, Raymond F., to Georgia-Pacific Corporation. Core-buckling tissue dispenser and dispensing method. 4,671,466, 6-9-87, Cl. 242-55.300.

Jess, Norval M.: *See—*

Gillis, Joseph P.; and Jess, Norval M., 4,637,473, Cl. 169-61.000.

Jesse, Jerry F.: *See—*

Curie, Kevin J.; and Jesse, Jerry F., 4,687,688, Cl. 428-35.000.

Jesse, Joachim, to BASF Aktiengesellschaft. Preparation of lakes having improved performance characteristics. 4,664,715, 5-12-87, Cl. 106-309.000.

Jessen, Donald N.: *See—*

Selin, John R.; and Jessen, Donald N., 4,637,073, Cl. 455-78.000.

Jessen, Gilbert W.: *See—*

Thorsen, Niels P.; Jessen, Gilbert W.; Thomsen, Erik; and Sorensen, Jens R., 4,706,467, Cl. 62-139.000.

Jessen, Kai: *See—*

Hoffmann, Friedrich; and Jessen, Kai, 4,662,370, Cl. 128-305.000.

Jessen, Ross A.: *See—*

Drake, Craig D.; and Jessen, Ross A., 4,655,345, Cl. 206-309.000.

Drake, Craig D.; and Jessen, Ross A., 4,703,919, Cl. 248-677.000.

Jessick, James, to Future Fire Suppression, Inc. Self-activating fire extinguisher. 4,709,763, 12-1-87, Cl. 169-26.000.

Jessop, Paul M.: *See—*

Jeffs, David H.; and Jessop, Paul M., 4,707,337, Cl. 422-100.000.

Jessup, Peter; Holstedt, Richard A.; and Baron, Kenneth, to Union Oil Company of California. Metal-boron derivatives as lubricant additives. 4,686,056, 8-11-87, Cl. 252-49.700.

Jessup, Peter J.; Brass, Stephen G.; and Croudace, Michael C., to Union Oil Company of California. Gasoline composition containing acid anhydrides. 4,647,292, 3-3-87, Cl. 44-66.000.

Jessup, Peter J.: *See—*

Holstedt, Richard A.; and Jessup, Peter J., 4,657,686, Cl. 252-47.500.

Jessup, Thurman W. Intermediate shaft thrust balance. 4,641,543, 2-10-87, Cl. 74-410.000.

Jester, Randy D., to American Hoechst Corporation. Calender band stripping section and process for stripping calendered sheet. 4,681,723, 7-21-87, Cl. 264-175.000.

Jester, William A.; McMaster, Ira B.; and Baratta, Anthony J., to Research Corporation. Reactor radioactive emission monitor. 4,663,113, 5-5-87, Cl. 376-256.000.

Jester, William A.: *See—*

Baratta, Anthony J.; Jester, William A.; Kenney, Edward S.; McMaster, Ira B.; and Schultz, Mortimer A., 4,639,349, Cl. 376-254.000.

Jet Research Center Inc.: *See—*

Dines, Jack E.; and Gillingham, Ernest L., 4,694,754, Cl. 102-310.000.

Regalbuto, John A.; Mayes, Philip W.; and Behling, William C., 4,655,138, Cl. 102-307.000.

Regalbuto, John A., 4,681,037, Cl. 102-310.000.

Jet Spray Corp.: *See—*

Arzberger, William; Warren, Wayne; Riley, Michael; and Segal, Martin, 4,703,770, Cl. 137-88.000.

Coppola, Peter J., 4,645,095, Cl. 222-64.000.

Jetcheva, Dimka I.; Todorov, Todor M.; and Stoichkova, Nedyalka M., to I V S D "AVANGARD". Composition containing fodder yeast waste for simultaneous scouring of metal surfaces from corrosion products, scale & scoria. 4,655,955, 4-7-87, Cl. 252-105.000.

Jeter, Howard R., to Westinghouse Electric Corp. Self-supporting pipe rupture and whip restraint. 4,644,780, 2-24-87, Cl. 73-40.50R.

Jetin Industrial Limited: *See—*

Phillips, Robert, 4,658,683, Cl. 83-53.000.

Jetmaster (Proprietary) Limited: *See—*

Jones, Arthur G., 4,635,616, Cl. 126-288.000.

Jett, Thomas M., Jr. Ammunition round. 4,682,545, 7-28-87, Cl. 102-430.000.

Jett, William B., Jr., to National Semiconductor Corporation. Blend control for low voltage stereo decoders. 4,646,348, 2-24-87, Cl. 381-10.000.

Jetzinger, Franz. Mowing and chopping machine. 4,711,074, 12-8-87, Cl. 56-13.600.

Jeuch, Pierre, to Commissariat a l'Energie Atomique. CMOS static storage cell having noncrossing interconnection conductors. 4,703,454, 10-27-87, Cl. 365-154.000.

Jeuch, Pierre: *See—*

Hartmann, Joel; and Jeuch, Pierre, 4,672,313, Cl. 324-158.00F.

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Jeumont-Schneider Corporation: *See—*

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Bonal, Jean, 4,641,234, Cl. 363-124.000.

Camus, Etienne, 4,710,721, Cl. 328-109.000.

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Guillaumin, Jacques, 4,677,316, Cl. 307-442.000.

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Katz, Maurice; and Renard, Antoine, 4,702,356, Cl. 188-315.000.

Marchand, Patrick, 4,680,586, Cl. 340-870.260.

Paeye, Gerard; and Guiader, Alain, 4,686,836, Cl. 62-235.100.

Paeye, Gerard, 4,697,433, Cl. 62-235.100.

Petit, Jean P., 4,670,667, Cl. 307-254.000.

Jevanoff, Andre; and Kresge, Edward N., to Exxon Research & Engineering Co. Bitumenous compositions. 4,659,759, 4-21-87, Cl. 524-68.000.

Jevne, Allan H.; Cahalan, Patrick T.; and Coury, Arthur J., to Medtronic, Inc. Refining of reaction grade 2-acrylamido-2-methylpropane sulfonic acid. 4,650,614, 3-17-87, Cl. 260-513.00N.

Jewell, Arnold W., to Jewell, Arnold W.; and Goddard, James E. Trigger mechanism. 4,671,005, 6-9-87, Cl. 42-69.020.

Jewell, Charles F., Jr.; and Wareing, James R., to Sandoz Corp. Preparation of olefinic compounds and intermediates thereof. 4,650,89 3-17-87, Cl. 556-446.000.

Jewell, Charles F., Jr.; and Wareing, James R., to Sandoz Pharmaceuticals Corp. Preparation of lactones. 4,677,211, 6-30-87, Cl. 548-491.000.

Jewell, J. N.; Korte, K. R.; Marshall, R. H.; and Zipperle, Kevin A., to Brown & Williamson Tobacco Corporation. Tobacco treating process. 4,706,691, 11-17-87, Cl. 131-300.000.

Jewell, Jack L., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Thermal stable optical logic element. 4,701,030, 10-20-87, Cl. 350-354.000.

Jewell, John N.: *See—*

Demer, Robert F.; Marshall, Robert H.; Jewell, John N.; and Litzinger, Elmer F., 4,677,994, Cl. 131-310.000.

Jewell, Michael B.; Johnson, Mark W.; and Upham, Arthur F., to Hewlett-Packard Company. Removable modular housing for RF circuits. 4,661,888, 4-28-87, Cl. 361-424.000.

Jewer, Alan A.: *See—*

Ackerman, Richard; Hurlbut, Donovan W.; and Jewer, Alan A., 4,692,913, Cl. 369-44.000.

Jewett, David N., to Energy Materials Corporation. System for growth of single crystal materials with extreme uniformity in their structural and electrical properties. 4,659,421, 4-21-87, Cl. 156-617.0SP.

Jewett, John H. Tangle-free blow-dry brush. 4,656,684, 4-14-87, Cl. 15-27.000.

Jewett, Robert P.: *See—*

Crockett, Peter N.; Jewett, Robert P.; Scriver, Arthur J.; and Tucker, Thomas A., 4,646,236, Cl. 364-200.000.

Jewett, Walter L.: *See—*

Ernst, M. Eric; and Jewett, Walter L., 4,682,719, Cl. 224-310.000.

Jewison, Kevin: *See—*

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Jewusiak, Stephen J., to Ethicon, Inc. Double-latched non-metallic bio-compatible hemostatic clip. 4,638,804, 1-27-87, Cl. 128-325.000.

Jex, Victor B.: *See—*

Cassin, Thomas R.; Jex, Victor B.; Matulewicz, William N.; McKenzie, Dale A.; and Mohr, Paul H., 4,664,833, Cl. 252-75.000.

Jezbera, Val K., to Dataproducts Corporation. Cooling assembly for hammer bank. 4,699,051, 10-13-87, Cl. 101-93.340.

Jezdinsky, Rudolf: *See—*

Fabinski, Walter; Apel, Willi; Bernhardt, Guenter; Jezdinsky, Rudolf; and Wolf, Heinz, 4,671,664, Cl. 356-440.000.

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moco Corporation. Conversion of a lower alkane. 4,654,458,
-87, Cl. 585-500.000.
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Gault, Robert H.; Jezzi, Arrigo D.; Milner, James D.; Oakley,
Barbara; and Franke, Paul G., 4,639,254, Cl. 604-385.00R.
aboratories, Inc.: *See—*
pscomb, John F.; and Fox, Gary L., 4,666,154, Cl. 272-144.000.
ndustries, Inc.: *See—*
arkes, Laurie R.; and Baker, Joseph G., 4,694,773, Cl.
114-354.000.
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mazaki, Takeru; Straitz, John F., III; and Yano, Shintaro,
4,652,233, Cl. 431-202.000.
mazaki, Takeru; Hashimoto, Noboru; and Shinobu, Okitsugu,
4,655,242, Cl. 137-247.270.
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mada, Tomiaki; Kamihonoki, Masuo; Sagara, Hiroshi; and
Umino, Hiroshi, 4,680,263, Cl. 435-162.000.
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  - Moorhouse, David, 4,648,655, Cl. 297-331.000.
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  - Jobe, Benjamin L., 4,649,952, Cl. 137-614.160.
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  - Smith, Kim R.; Johannessen, Raymond O.; and Borland, James E., 4,659,565, Cl. 424-70.000.
- annesson, Orn: *See*—
  - Braeger, Horst; and Johannesson, Orn, 4,635,318, Cl. 17-63.000.
- annisbauer, Wilhelm: *See*—
  - Brockmann, Rolf; Jeromin, Lutz; Johannisbauer, Wilhelm; Meyer, Helmut; Michel, Otto; and Plachenka, Juergen, 4,655,879, Cl. 203-37.000.
- annsmeier, Karl-Heinz: *See*—
  - Phillips, Edward H.; and Johannsmeier, Karl-Heinz, 4,687,980, Cl. 318-640.000.
- annson, Bo Ingemar W.: *See*—
  - Larsson, Lars-Ake L.; Nilsson, Ake W.; Johannson, Bo Ingemar W.; and Naucler, Lars Olof V., 4,708,714, Cl. 604-5.000.
- annsson, Axel, to IQ (BIO) Limited. Biochemical detection method nd kit for use therein. 4,668,639, 5-26-87, Cl. 436-518.000.
- ans, Thomas G., to Arrow International, Inc. Device for making lectrical connection to an electrolyte, and system employing same. ,644,960, 2-24-87, Cl. 128-786.000.
- ansen, David L.; and van Le, Hung, to Arrowhead Puritas Waters, nc. Stand for water dispenser and the like. 4,664,349, 5-12-87, Cl. 48-150.000.
- ansen, Jack T.: *See*—
  - Breddam, Klaus; Johansen, Jack T.; and Widmer, Fred, 4,645,749, Cl. 435-71.000.
- nsen, Kent: *See*—
  - Skovgaard, Helge; and Johansen, Kent, 4,692,882, Cl. 364-565.000.
- nsen, Kim L. Alarm device for automobiles and similar vehicles. 679,648, 7-14-87, Cl. 180-272.000.
- nson, Fredrick R., to Dresser Industries, Inc. Method and appara- s for maximizing utilization of an electric motor under load. 659,976, 4-21-87, Cl. 318-332.000.
- nson, Herbert W., Jr.: *See*—
  - Rayment, Arthur G.; and Johanson, Herbert W., Jr., 4,656,904, Cl. 83-289.000.
- nson, Jerry R.; and Dick, David S., to Jenike & Johanson, Inc. eneralized high speed belt to belt transfer chute. 4,646,910, 3-3-87, 198-535.000.
- nson, Jerry R., to Jenike & Johanson, Inc. Bulk solids property ster. 4,715,212, 12-29-87, Cl. 73-38.000.
- nson, Robert H., to Whirlpool Corporation. Vacuum cleaner and ethod of dissipating electrostatic charge. 4,715,085, 12-29-87, Cl. -339.000.
- Johanson, Robert H.; Montgomery, Raymond M.; Herndon, Michael T.; and Peterson, Edward C., to Whirlpool Corporation. Vacuum cleaner and method of dissipating electrostatic charge through corona discharge. 4,715,086, 12-29-87, Cl. 15-339.000.
- Johanson, William G., to Du Pont de Nemours, E. I., and Company. Centrifuge rotor. 4,675,001, 6-23-87, Cl. 494-85.000.
- Johanson, William G.: *See*—
  - Cole, Paul M.; Johanson, William G.; McConnell, Ronald F.; Popper, Peter; and Velvel, William E., 4,659,325, Cl. 494-20.000.
- Johansson, Alf I.; and Rosendahl, Bengt R. Driver training apparatus for simulating skid conditions of an automobile. 4,700,798, 10-20-87, Cl. 180-209.000.
- Johansson, Alf O. K.: *See*—
  - Peterson, Per V.; Hoglund, Hans E.; and Johansson, Alf O. K., 4,635,864, Cl. 241-251.000.
- Johansson, Arne; and Namensen, Erland, to A/S Nunc. Method for the production of a plastic container. 4,715,911, 12-29-87, Cl. 156-69.000.
- Johansson, Bjorn-Olow: *See*—
  - Bolmstedt, Ulf; and Johansson, Bjorn-Olow, 4,696,341, Cl. 165-101.000.
  - Bolmstedt, Ulf; and Johansson, Bjorn-Olow, 4,700,770, Cl. 165-1.000.
- Johansson, Bo-Lennart I.: *See*—
  - Strom, Valter E.; Johansson, Bo-Lennart I.; Karlsson, Hakan I.; and Ostman, Thomas, 4,655,093, Cl. 73-862.410.
- Johansson, Borje: *See*—
  - Santen, Sven; and Johansson, Borje, 4,687,513, Cl. 75-88.000.
- Johansson, Elof; and Ohman, Lena, to Pharmacia AB. Eye drops composition. 4,642,305, 2-10-87, Cl. 514-182.000.
- Johansson, Eric B.: *See*—
  - Nelson, Harold L.; Dunlap, Thomas G.; Johansson, Eric B.; and Matzner, Bruce, 4,675,154, Cl. 376-444.000.
- Johansson, Erik, to Ecupan AB. Thermal bar code printer for label applicator. 4,659,416, 4-21-87, Cl. 156-384.000.
- Johansson, Gert A. Corner piece for frames. 4,636,105, 1-13-87, Cl. 403-205.000.
- Johansson, Gert A. Clothing data marker. 4,679,340, 7-14-87, Cl. 40-322.000.
- Johansson, Hans, and Goras, Anders, to Saab-Scania Aktiebolag. Arrangement in a magnetic position indicator. 4,712,420, 12-15-87, Cl. 73-118.100.
- Johansson, Hans: *See*—
  - Gillbrand, Per; Johansson, Hans; and Nytomt, Jan, 4,648,367, Cl. 123-425.000.
- Johansson, Jan H., to Telefonaktiebolaget LM Ericsson. Multiple voltage regulator integrated circuit having control circuits for selectively disabling a voltage regulator in an over-current condition. 4,675,770, 6-23-87, Cl. 361-18.000.
- Johansson, Jan U. S.; Forsberg, Gunnar S.; and Vucins, Viesturs J., to Telefonaktiebolaget LM Ericsson. Apparatus for detecting tapping of light energy from an optical fiber. 4,636,029, 1-13-87, Cl. 350-96.160.
- Johansson, John I. E., to Hobart Brothers Company. Manipulator for cooperation with an industrial robot. 4,666,363, 5-19-87, Cl. 414-736.000.
- Johansson, Karl A.: *See*—
  - Madsen, Henning S.; Sergero, Tommy S.; and Johansson, Karl A., 4,697,334, Cl. 29-594.000.
- Johansson, Keil. Method and means for keeping cattle in a stall barn. 4,715,322, 12-29-87, Cl. 119-27.000.
- Johansson, Lars A.: *See*—
  - Wallin, P. O. Thomas; Warell, Bengt H.; Svensson, A. Pedar; Lundstrom, Kurt A.; and Johansson, Lars A., 4,711,184, Cl. 108-144.000.
  - Wallin, Per Olov T.; Warell, Bengt H.; Svensson, Ake P.; Lundstrom, Kurt A.; and Johansson, Lars A., 4,714,025, Cl. 108-20.000.
- Johansson, Lars-Erik, to Flakt AB. Media mixing nozzle assembly. 4,690,333, 9-1-87, Cl. 239-434.500.
- Johansson, Mats A., to M. J. Maskiner Aktiebolag. Annular saw blade. 4,646,607, 3-3-87, Cl. 83-853.000.
- Johansson, Nils E.; Eralp, Emin; and Itil, Turan M. Method and apparatus for conducting brain function diagnostic test. 4,683,892, 8-4-87, Cl. 128-639.000.
- Johansson, Paul J. Patient transfer mat. 4,700,416, 10-20-87, Cl. 5-81.0GR.
- Johansson, Paul J. Mobile rocking wheelchair with position locking means. 4,707,026, 11-17-87, Cl. 297-281.000.
- Johansson, Rolf: *See*—
  - Blad, Per A.; and Johansson, Rolf, 4,716,272, Cl. 219-129.000.
- Johansson, Ronald J.: *See*—
  - Hsu, Sheng T.; Flatley, Doris W.; and Johansson, Ronald J., 4,662,064, Cl. 29-591.000.
- Johansson, Sven H.; and Nytomt, Jan G., to Saab-Scania Aktiebolag. Ignition unit in the ignition system of an internal combustion engine. 4,706,638, 11-17-87, Cl. 123-647.000.
- Johansson, Sven H.: *See*—
  - Gillbrand, Per S.; and Johansson, Sven H., 4,665,922, Cl. 123-647.000.
  - Gillbrand, Per S.; and Johansson, Sven H., 4,671,248, Cl. 123-647.000.
  - Gillbrand, Per Sune; and Johansson, Sven H., 4,637,368, Cl. 123-647.000.
- Johdai, Akiyoshi; Yamada, Hirokazu; Ikenoue, Yoshikazu; and Ishikawa, Takuma, to Minolta Camera Kabushiki Kaisha. Sorting apparatus. 4,638,992, 1-27-87, Cl. 271-293.000.

John A. Kitchen Ltd.: *See*—
  Kitchen, John A., 4,640,674, Cl. 431-1.000.
  Kitchen, John A., 4,697,358, Cl. 34-191.000.
  Kitchen, John A., 4,706,390, Cl. 34-57.00R.
John, Ansel N.; and Jackson, Richard L., to Jackson, Richard L. Rotary trimmer with self-contained collection means. 4,715,123, 12-29-87, Cl. 30-276.000.
John, Ansel N.: *See*—
  Jackson, Richard L.; and John, Ansel N., 4,672,744, Cl. 30-276.000.
John Brown Inc.: *See*—
  Karklin, Roland; Arends, Albert W.; Brokoff, Terrance L.; Russell, Edward J.; and Greiner, James R., 4,676,938, Cl. 264-46.500.
  Whiteside, Robert C., 4,636,348, Cl. 264-544.000.
  Whiteside, Robert C.; Arends, Albert W.; and Karklin, Roland, 4,666,544, Cl. 156-212.000.
John, Clarence D., Jr.: *See*—
  Cellier, Francis; Graulty, Robert T.; Johnson, Wendell L.; Batson, David M.; Limpert, John C.; Wu, Christopher K. C.; Bucher, George D.; John, Clarence D., Jr.; Steinkirchner, John E.; Larouere, Paula J.; Shah, Hemant H.; and Williams, Robert A., 4,687,605, Cl. 264-0.500.
John Crane-Houdaille, Inc.: *See*—
  Bruck, Horst, 4,635,798, Cl. 209-644.000.
  Netzel, James P., 4,669,738, Cl. 277-40.000.
John D. Brush & Co., Inc.: *See*—
  Beattie, Patrick J., 4,683,732, Cl. 70-118.000.
  Beattie, Patrick J., 4,691,544, Cl. 70-329.000.
  Brush, John D., Jr.; and Chase, David O., 4,688,493, Cl. 109-65.000.
  Harvey, Nathan A.; and Avery, Roland M., Jr., 4,645,613, Cl. 252-70.000.
John D. Hollingsworth on Wheels, Inc.: *See*—
  Pinto, Akiva, 4,682,388, Cl. 19-105.000.
  Pinto, Akiva, 4,689,857, Cl. 19-105.000.
  Waters, Oran G.; and Chandler, Larry G., 4,643,367, Cl. 242-7.210.
John Davis & Son (Derby) Limited: *See*—
  Moore, Robert H.; and Morgan, Paul, 4,682,847, Cl. 350-96.200.
John Deks Australia Pty. Ltd.: *See*—
  Houseman, David G., 4,664,390, Cl. 277-12.000.
John, Erwin R. Intraoperative monitoring or EP evaluation system utilizing an automatic adaptive self-optimizing digital comb filter. 4,705,049, 11-10-87, Cl. 128-731.000.
John Fluke Mfg. Co., Inc.: *See*—
  Carlson, Alden J.; and Bhaskar, Kasi S., 4,649,497, Cl. 364-491.000.
  Eccleston, Larry E.; and Emery, John C., 4,716,398, Cl. 340-347.0DA.
  Epperson, David L., 4,696,860, Cl. 428-325.000.
  Fancher, James E., 4,670,663, Cl. 307-113.000.
  Jacobson, David M., 4,715,034, Cl. 371-21.000.
  Jones, Wayne R., 4,714,436, Cl. 439-497.000.
  Scott, Marshall H.; and Polstra, John D., 4,709,366, Cl. 371-20.000.
  Sheffer, Tzafrir, 4,716,361, Cl. 324-60.00R.
  Sparrowhawk, Bryan L., 4,707,680, Cl. 340-347.0NT.
  Whipple, Charles K., 4,707,039, Cl. 439-75.000.
John, Gunter; Kretschmer, Karl-Heinz; and Rollich, Jurgen, to VEB Kombinat Fortschritt Landmaschinen. Impeller-type cutter drum for a chopper. 4,714,204, 12-22-87, Cl. 241-55.000.
John, Gunther, to Minnesota Mining and Manufacturing Company. Fire resistant cast cable connection. 4,680,427, 7-14-87, Cl. 174-88.00R.
John H. Best & Sons, Inc.: *See*—
  Ovitz, Ernest G., III, 4,685,573, Cl. 211-46.000.
John H. Harland Company: *See*—
  Voshall, Donald K.; and Strickland, Danny K., 4,709,396, Cl. 383-5.000.
  Voshall, Donald K.; and Strickland, Danny K., 4,709,397, Cl. 383-5.000.
John, Heinz; and Windele, Josef, to Siemens Aktiengesellschaft. Contact pressure mechanism for a web-shaped image receiving material. 4,699,496, 10-13-87, Cl. 355-3.0TR.
John Hopkins University: *See*—
  Pressman, Norman J.; and Frost, John K., 4,645,872, Cl. 379-54.000.
John Lysaght (Australia) Limited: *See*—
  Teoh, Eam K.; Goodwin, Graham C.; and Edwards, William J., 4,691,547, Cl. 72-16.000.
John Mezzalingua Associates, Inc.: *See*—
  Szegda, Andrew, 4,676,577, Cl. 439-584.000.
John O. Butler Company: *See*—
  Tarrson, Emanuel B.; Maric, Dane; and Kelly, Thomas P., 4,691,404, Cl. 15-167.00R.
  Tarrson, Emanuel B.; and Maric, Dane, 4,710,996, Cl. 15-105.000.
John, Puthenpurackal K.; and Shoemaker, Arthur H., to Cambridge Instruments Inc. Microscope body system. 4,715,697, 12-29-87, Cl. 350-502.000.
John, Simon M.: *See*—
  Traver, Frank J.; John, Simon M.; and Merrill, Duane F., 4,689,248, Cl. 427-168.000.
John T. Hepburn, Limited: *See*—
  Hepburn, James; and Malashenko, Leon, 4,694,744, Cl. 100-214.000.
  Malashenko, Leon, 4,690,049, Cl. 100-214.000.
John, Thomas: *See*—
  Ehrlenspiel, Klaus; John, Thomas; and Schuierer, Andreas, 4,643,698, Cl. 464-111.000.
  Ehrlenspiel, Klaus; John, Thomas; and Streinz, Wolfgang, 4,692,126, Cl. 464-103.000.
John, William W.; Estreicher, Herbert; and Soloway, Samuel B., to Du Pont de Nemours, E. I., and Company. Use of certain cinnoline-4-carboxylic acids and congeners thereof for controlling the growth unwanted plants. 4,699,651, 10-13-87, Cl. 71-92.000.
John Wyeth & Brother Limited: *See*—
  Archibald, John L.; Ward, Terence J.; and Opalko, Albert 4,694,012, Cl. 514-332.000.
  Boyle, John T. A.; and Todd, Richard S., 4,640,920, Cl. 514-248.000.
  Boyle, John T. A., 4,684,657, Cl. 514-313.000.
  Crossley, Roger; and Meade, Peter J., 4,666,900, Cl. 514-211.000.
  Crossley, Roger, 4,678,794, Cl. 514-332.000.
  Crossley, Roger, 4,703,044, Cl. 514-292.000.
  Shepherd, Robin G., 4,707,552, Cl. 546-176.000.
  White, Alan C.; Shepherd, Robin G.; and Langham, Barry J., 4,640,924, Cl. 514-291.000.
  Wyllie, Michael G., 4,701,462, Cl. 514-323.000.
John Zink Company: *See*—
  Contri, Robert F., 4,661,685, Cl. 219-250.000.
  Contri, Robert F.; and Hemrich, William R., 4,673,798, Cl. 219-225.000.
  Nawrot, Thomas L.; Vancha, John; and Mysicka, James C., 4,686,352, Cl. 219-250.000.
  Nickelson, Robert W., 4,663,849, Cl. 30-296.00A.
  Ogden, Richard, 4,702,691, Cl. 431-187.000.
  O'Malley, Kevin P.; and Thomas, Richard K., 4,647,831, Cl. 320-2.000.
  Rieckman, Roger A.; Hemrich, William R.; Jursich, Donald N.; and Crowley, George C., 4,683,369, Cl. 219-364.000.
  Schwartz, Robert E.; Noble, Roger K.; and Keller, Michael R., 4,637,793, Cl. 431-202.000.
  Schwartz, Robert E.; and Noble, Roger K., 4,645,449, Cl. 431-8.000.
  Schwartz, Robert E.; and Keller, Michael R., 4,652,232, Cl. 431-202.000.
  Schwartz, Robert E.; and Noble, Roger K., 4,664,617, Cl. 431-8.000.
Johncock, Annette; and Hudgens, Stephen J., to Energy Conversion Devices, Inc. Enhancement layer for positively charged electrophotographic devices and method for decreasing charge fatigue through the use of said layer. 4,713,309, 12-15-87, Cl. 430-65.000.
Johncock, Annette G.; and Hudgens, Stephen J., to Energy Conversion Devices, Inc. Improved method of making a photoconductive member. 4,715,927, 12-29-87, Cl. 156-606.000.
Johncock, William: *See*—
  Heller, Harold H.; Oliver, Stephen N.; Whittal, John; Johncock, William; Darcy, Paul J.; and Trundle, Clive, 4,685,783, Cl. 351-163.000.
Johne, Frank, to J. Kuhn GmbH Co. Tool holder. 4,714,389, 12-22-87, Cl. 409-233.000.
Johne, Hans: *See*—
  Jentzsch, Arndt; Johne, Hans; Muller, Wolfgang; Waurig, Reiner; and Sachers, Horst, 4,669,382, Cl. 101-365.000.
Johnen, Rolf; Kirch, Hans; and Otto, Volkmar, to Goetze AG. Elastic shaft coupling for transmission of torque between shafts. 4,696,657, 9-29-87, Cl. 464-93.000.
Johnescu, Douglas M.; and Johnson, Erlon F., to AMP Incorporated. Coaxial connector with circuit board mounting features. 4,659,156, 4-21-87, Cl. 339-17.00C.
Johnk, Kurt; and Mayer, Dieter, to Westermann, Wolfgang. Plastic film capacitor in chip constructional form. 4,670,816, 6-2-87, Cl. 361-323.000.
Johnny Stopper Inc.: *See*—
  Cherico, John R., 4,715,138, Cl. 40-591.000.
Johns, David W., II: *See*—
  Hudson, Alan T.; Gagnon, David P.; Johns, David W., II; and Langenhein, William J., Jr., 4,673,363, Cl. 441-1.000.
Johns, Dennis M., to Dow Chemical Company, The. Continuous process for removing water-soluble particles from organic liquids. 4,645,512, 2-24-87, Cl. 23-293.00R.
Johns, Frederick W., Sr. Mechanic's creeper. 4,698,731, 10-6-87, Cl. 362-61.000.
Johns Hopkins University, The: *See*—
  Burns, Hugh D.; Zemyan, Susan E.; Epps, Leon A.; Kramer, Alfred V.; and Dannals, Robert F., 4,638,051, Cl. 534-14.000.
  Civin, Curt I., 4,714,680, Cl. 435-240.250.
  Fischell, Robert E.; Sadilek, Albert C.; and Swift, William, 4,661,097, Cl. 604-123.000.
  Irzinski, Edward P.; Krill, Jerry A.; and Zinger, William H., 4,679,008, Cl. 333-21.00R.
  Ko, Harvey W.; and Hart, Lynn W., 4,688,580, Cl. 128-734.000.
  Ko, Harvey W., 4,690,149, Cl. 128-653.000.
  Krill, Jerry A., 4,688,007, Cl. 333-137.000.
  Loveless, John H., 4,679,644, Cl. 180-6.500.
  Newman, Arnold L.; and Stanbro, William D., 4,708,765, Cl. 156-626.000.
  Potember, Richard S.; Poehler, Theodore O., Jr.; and Cowan, Dwaine O., 4,652,894, Cl. 357-8.000.
  Potember, Richard S.; and Poehler, Theodore O., 4,663,270, Cl. 430-495.000.
  Potember, Richard S.; and Poehler, Theodore O., 4,684,598, Cl. 430-269.000.
  Schmid, Mark E.; Trapp, Robert L.; and Davidoff, Alexander E., 4,667,192, Cl. 340-825.500.
  Small, Thomas R., 4,679,761, Cl. 248-609.000.
  Snelling, William E.; and Penn, John E., 4,706,210, Cl. 364-758.000.
  Wagner, Henry N., Jr., 4,712,561, Cl. 128-654.000.

Walser, Mackenzie; Sapir, Daniel G.; and Stewart, Peter M., 4,677,121, Cl. 514-561.000.

hns, Kent L., and Wohlmuth, Clinton J., to Cummins Engine Company, Inc. Method for hardfacing valves. 4,686,348, 8-11-87, Cl. 219-121.0PY.

hns, Reginald B.: *See—*

Harvey, Kaye F.; Johns, Reginald B.; Buchanan, Alan S.; and Cam, David A., 4,701,184, Cl. 44-10.00D.

hns, Richard B. Line handling device. 4,635,986, 1-13-87, Cl. 294-19.100.

hns, Robert H.; and Nauman, John D., to Allegheny Ludlum Corporation. Method and apparatus for continuous casting of crystalline strip. 4,678,719, 7-7-87, Cl. 428-593.000.

hns, Robert H.; and Nauman, John D., to Allegheny Ludlum Corporation. Method and apparatus for direct casting of crystalline strip by radiant cooling. 4,715,428, 12-29-87, Cl. 164-463.000.

hns, William L.: *See—*

Vranish, John M.; Bunch, Wayne R.; and Johns, William L., 4,707,013, Cl. 294-119.100.

hnsen, Aksel F.: *See—*

Madsen, Rud F.; Nielsen, Werner K.; and Johnsen, Aksel F., 4,666,603, Cl. 210-321.100.

hnsen, Hans K.; and Gaaseidnes, Knut. Slurry for cementing, especially cementing of lining pipes in drill holes, and method for production of such a slurry. 4,650,520, 3-17-87, Cl. 106-90.000.

hnsen, Hawk; and Johnsen, Kaare. Method for finishing steel shapes with magnetite and product obtained therefrom. 4,684,411, 8-4-87, Cl. 134-15.000.

hnsen, John L.; Wood, William E.; Devletian, Jack H.; and Spring, Donald G., to Huck Manufacturing Company. Welding alloy and method of making and using the same. 4,708,282, 11-24-87, Cl. 228-263.160.

hnsen, John N.; and Balog, Georg E., to Standard Telefon og Kabelfabrik A/S. Armored submarine power cable. 4,644,097, 2-17-87, Cl. 174-102.00R.

hnsen & Jorgensen Plastics Limited: *See—*

McLaren, Kevin W., 4,667,836, Cl. 215-216.000.

McLaren, Kevin W., 4,715,506, Cl. 215-252.000.

hnsen, Kaare: *See—*

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hnsen, Kenneth: *See—*

Goff, Kathy O.; and Johnsen, Kenneth, 4,665,902, Cl. 128-79.000.

hnsen, Kenneth D.; and Fletcher, Alan J., to Rockwell International Corporation. Plug for hole sealing. 4,640,434, 2-3-87, Cl. 220-287.000.

hnsen, Peter B.; and Adams, Michael A., to Monell Chemical Senses Center. Stimulation and enhancement of feeding in herbivorous fish. 4,693,897, 9-15-87, Cl. 426-2.000.

hnson, Alan, to British Gas Corporation. Coupling devices for use with electrofusion fittings of thermoplastic material. 4,639,580, 1-27-87, Cl. 219-541.000.

hnson, Alan G.: *See—*

Douglas, Phillip N.; and Johnson, Alan G., 4,700,350, Cl. 371-37.000.

hnson, Alan R.; and Yawberg, Richard C., to Owens-Corning Fiberglas Corporation. Methods of making glass wool blowing insulation. 4,682,523, 7-28-87, Cl. 83-19.000.

hnson, Albert S., to Atlantic Richfield Company. Method for circulating and maintaining drilling mud in a wellbore. 4,653,597, 3-31-87, Cl. 175-25.000.

hnson, Alfred H.: *See—*

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hnson, Alfred N.; and Prisco, Anthony J., to Westinghouse Electric Corp. Method for sorting radioactive waste. 4,646,978, 3-3-87, Cl. 241-24.000.

hnson, Alfred N.; and Prisco, Anthony J., to Westinghouse Electric Corp. Apparatus for detecting radiation in a container. 4,658,142, 4-14-87, Cl. 250-393.000.

hnson, Alfred N.: *See—*

Prisco, Anthony J.; and Johnson, Alfred N., 4,679,738, Cl. 241-101.200.

hnson, Allan P.; and Shovan, Ronald W., to Honeywell Inc. Radia- ion hard visible light readout circuit. 4,659,930, 4-21-87, Cl. 250-336.100.

nson, Allan S., to Tapmatic Corporation. Reversible dual speed apping attachment. 4,705,437, 11-10-87, Cl. 408-139.000.

nson, Allen M.: *See—*

Wells, David L.; and Johnson, Allen M., 4,659,292, Cl. 417-225.000.

nson, Anthony J.; and Franklin, Paul E., to Crosfield Electronics USA) Limited. Color enhancement. 4,647,963, 3-3-87, Cl. 358-80.000.

nson, Anthony M.: *See—*

Glass, Alastair M.; and Johnson, Anthony M., 4,703,996, Cl. 350-96.110.

nson, Arnold W. Washing device. 4,672,707, 6-16-87, Cl. 15-222.000.

nson, Arthur C. W., to Combustion Research Corporation. Energy fficient heating system for greenhouses. 4,676,434, 6-30-87, Cl. 37-1.00R.

nson, Arthur C. W., to Combustion Research Corporation. Energy fficient heating system for greenhouses. 4,699,316, 10-13-87, Cl. 37-69.000.

nson, Arthur C. W. Low-intensity infrared heating system with ffluent recirculation. 4,712,734, 12-15-87, Cl. 237-70.000.

nson, Arthur F., to Energy Conservation Partnership, Ltd. Pollu- ion control and heat recovery. 4,676,299, 6-30-87, Cl. 165-1.000.

Johnson, Arthur F., to Energy Conservation Partnership, Ltd. Heat regenerator to recover both sensible and heat of condensation of flue gases. 4,703,794, 11-3-87, Cl. 165-7.000.

Johnson, Augustus W. Sprinkler drain and test valve. 4,655,078, 4-7-87, Cl. 73-168.000.

Johnson, Axel R.: *See—*

Gartside, Robert J.; Johnson, Axel R.; Ross, Joseph L.; and Duncan, Dennis A., 4,663,019, Cl. 208-50.000.

Johnson, Barbara F., executor: *See—*

Snow, Wayne R.; Isiiker, Gaston R.; and Johnson, Colin A., deceased, 4,690,480, Cl. 439-364.000.

Johnson, Barry C.: *See—*

Mitchell, Curtis W.; and Johnson, Barry C., 4,702,941, Cl. 427-250.000.

Johnson, Bernard A., to Mangood Corporation. System for determining axle spacing. 4,667,757, 5-26-87, Cl. 177-1.000.

Johnson, Betty S.: *See—*

May, Oscar W.; and Johnson, Betty S., 4,650,808, Cl. 514-372.000.

Johnson, Beverly E.; and Solano, William E., to Salem Furnace Co. Rotating rabbled roof drying and heating furnace. 4,669,977, 6-2-87, Cl. 432-139.000.

Johnson, Brad A.: *See—*

Cox, Michael D.; Johnson, Brad A.; and Stewart, Brad B., 4,649,656, Cl. 36-4.000.

Johnson, Breck J.; and Canfield, George D., to Blackbourn, Inc. Two-ply cassette album and method of making same. 4,641,750, 2-10-87, Cl. 206-387.000.

Johnson, Brian S., to Upjohn Company, The. Stable prostaglandin E gels utilizing colloidal silicon dioxide as a gel-forming agent. 4,680,312, 7-14-87, Cl. 514-573.000.

Johnson, Bruce B., to Du Pont de Nemours, E. I., and Company. Multilayer cation exchange membrane. 4,686,120, 8-11-87, Cl. 427-370.000.

Johnson, Bruce C.: *See—*

Hallgren, John E.; Policastro, Peter P.; Chao, Herbert S.; and Johnson, Bruce C., 4,678,839, Cl. 525-390.000.

Prestridge, Floyd L.; and Johnson, Bruce C., 4,702,815, Cl. 204-302.000.

Johnson, Bruce K.; and Goward, Robert M., to Polaroid Corporation. Foldable camera accessory for photographing electro-luminescent images. 4,653,884, 3-31-87, Cl. 354-81.000.

Johnson, Bruce K.; and Whiteside, George D., to Polaroid Corporation. Camera having chamber for storing exposed film units during their development. 4,664,497, 5-12-87, Cl. 354-86.000.

Johnson, Bruce K.; and Whiteside, George D., to Polaroid Corporation. Photographic apparatus having a film advancing and processing assembly. 4,688,912, 8-25-87, Cl. 354-86.000.

Johnson, Bruce K., to Polaroid Corporation. Copy accessory for instant camera. 4,701,039, 10-20-87, Cl. 354-80.000.

Johnson, Bruce K.; Estevez, Juan; Goward, Robert M.; and Whiteside, George D., to Polaroid Corporation. Multiple format camera and accessory. 4,707,106, 11-17-87, Cl. 354-481.000.

Johnson, Bruce L.: *See—*

Wolf, Roger H.; and Johnson, Bruce L., 4,657,597, Cl. 134-8.000.

Johnson, Bruce R.; and Falconer, Ralph A., to Jandy Industries. Pool chlorinator. 4,691,732, 9-8-87, Cl. 137-268.000.

Johnson, Bruce S.; and Elliott, Timothy F. Four round projectile container and latching mechanism. 4,666,034, 5-19-87, Cl. 206-3.000.

Johnson, Bruce S., to Harsco Corporation. Battlefield magazine with external reinforcing frame. 4,666,035, 5-19-87, Cl. 206-3.000.

Johnson, Bruce S., to Harsco Corporation. Cable tension sensing apparatus. 4,679,771, 7-14-87, Cl. 254-273.000.

Johnson, Bruce S.; and Taylor, Dennis M., to Finnigan Corporation. Electron source assembly with a replaceable filament ribbon. 4,684,204, 8-4-87, Cl. 439-863.000.

Johnson, Bruce S., to Harsco Corporation. Portable folding bridge crane. 4,706,825, 11-17-87, Cl. 212-182.000.

Johnson, Bruce S.: *See—*

Borst, Paul H.; and Johnson, Bruce S., 4,664,434, Cl. 294-87.100.

Johnson, Bryce V.: *See—*

Karayannis, Nicholas M.; Skryantz, John S.; and Johnson, Bryce V., 4,657,882, Cl. 502-115.000.

Johnson, Burnett H., to Exxon Research & Engineering Co. Polymerization catalyst. 4,707,530, 11-17-87, Cl. 526-129.000.

Johnson, C. B., to ITT Electro Optical Products. Secondary cathode microchannel plate tube. 4,691,099, 9-1-87, Cl. 250-213.0VT.

Johnson, Calvin K.: *See—*

Armbruster, David R.; and Johnson, Calvin K., 4,713,294, Cl. 428-404.000.

Johnson, Carl A.; and Robinson, S. M. Boris, to Sirris Flow Technology, Inc. Mass flowmeter. 4,648,270, 3-10-87, Cl. 73-202.000.

Johnson, Carl H.; Coppedge, Charles D.; and McCasland, Charles S., to Otis Engineering Corporation. Burner nozzle. 4,664,619, 5-12-87, Cl. 431-154.000.

Johnson, Carl J.: *See—*

Ogden, Ralph; and Johnson, Carl J., 4,635,928, Cl. 272-69.000.

Johnson, Carl S. Apparatus for custom tinting soft contact lenses by dispenser of lenses. 4,705,370, 11-10-87, Cl. 351-162.000.

Johnson, Carl T. Sonic fishing bait. 4,641,455, 2-10-87, Cl. 43-42.130.

Johnson, Carl W., to North American Philips Corporation. Multi-chip packaging system. 4,657,137, 4-14-87, Cl. 206-329.000.

Johnson, Carl W.; and Fries, Kenneth J., to Winkler & Dunnebier. Apparatus for forming fibrous pads. 4,674,966, 6-23-87, Cl. 425-82.100.

Johnson, Charles A., and Young, Jerald A., to Rockwell International Corporation. Free space microscope digitizing aid. 4,686,639, 8-11-87, Cl. 364-559.000.

Johnson, Charles B., and Gardener, Howard D., to Data General Corporation. FCM channel multiplexer/demultiplexer. 4,644,535, 2-17-87, Cl. 370-99.000.

Johnson, Charles B.; Box, Jeffrey L.; and Hildebrand, David B., to SRX Corporation. Distributed switching system. 4,685,104, 8-4-87, Cl. 370-67.000.

Johnson, Charles E., and New, Richard W., to Buffalo Weaving and Belting Company. Longer lasting woven polyaramide belting for high temperature applications. 4,637,511, 1-20-87, Cl. 198-846.000.

Johnson, Charles H. Method and apparatus for wrapping blocks of cheese. 4,642,969, 2-17-87, Cl. 53-433.000.

Johnson, Christian E.: *See*—
  Lashmore, David S.; Mullen, Jasper L.; Johnson, Christian E.; and Polvani, Robert S., 4,699,000, Cl. 73-81.000.

Johnson, Christopher F., and Green, Sidney J., to Terra Tek, Inc. Pressure balanced loading piston for triaxial test cells. 4,679,441, 7-14-87, Cl. 73-798.000.

Johnson, Clarence W., to Bralorne Resources Limited. Mobile drilling apparatus. 4,703,812, 11-3-87, Cl. 173-152.000.

Johnson, Clifford T.: *See*—
  Griffin, Dan M.; Johnson, Clifford T.; and Miller, Larry J., 4,653,074, Cl. 375-106.000.
  Miller, Larry J.; Johnson, Clifford T.; and Rattlingourd, Glen D., 4,680,759, Cl. 370-112.000.
  Miller, Larry J.; Rattlingourd, Glen D.; and Johnson, Clifford T., 4,685,106, Cl. 370-112.000.

Johnson, Clyde O.: *See*—
  Miranti, Joseph P., Jr.; Oliver, Larry R.; and Johnson, Clyde O., 4,676,768, Cl. 474-201.000.

Johnson, Clyde R.; Hawryluk, Raymond; and Katrencik, Gerald, to Union Oil Company of California. Furnace with modular construction. 4,702,694, 10-27-87, Cl. 432-133.000.

Johnson, Clyde T. Locking device. 4,711,106, 12-8-87, Cl. 70-34.000.

Johnson, Colin: *See*—
  Shock, Clifford L., and Johnson, Colin, 4,661,935, Cl. 367-70.000.

Johnson, Colin A., deceased: *See*—
  Snow, Wayne R.; Isliker, Gaston R.; and Johnson, Colin A., deceased, 4,690,480, Cl. 439-364.000.

Johnson, Conner. Convertible auto restrainer seat (car seat). 4,679,804, 7-14-87, Cl. 280-30.000.

Johnson, Constance A., and Merijanian, Aspet V., to Uniroyal Chemical Company, Inc. Method for embedding electrical and electronic circuitry. 4,663,237, 5-5-87, Cl. 428-500.000.

Johnson Corporation, The: *See*—
  Jackson, Eldon D., 4,635,969, Cl. 285-95.000.

Johnson, Curtis F., and Gilbert, Douglas J., to San Diego Levco Corporation. Connector for component mounted on circuit board. 4,687,265, 8-18-87, Cl. 439-68.000.

Johnson, Cydney A.: *See*—
  Levine, Peter A.; Cobb, Arthur L., Jr.; Johnson, Cydney A.; and Peterson, Gary R., 4,695,878, Cl. 358-44.000.

Johnson, D. Bruce: *See*—
  Hines, Robin H.; Glasscock, Michael R.; and Johnson, D. Bruce, 4,690,025, Cl. 84-1.180.

Johnson, D. Dale, to Ex-Cell-O Corporation. Actuator locking mechanism. 4,712,471, 12-15-87, Cl. 92-24.000.

Johnson, D. Scott: *See*—
  Johnson, Don E., and Johnson, D. Scott, 4,702,147, Cl. 91-318.000.

Johnson, Dale B.: *See*—
  DeHart, Marvin L., and Johnson, Dale B., 4,714,009, Cl. 98-40.130.

Johnson, Dale V., and Childers, Thomas W., to Exxon Production Research Co. Metal seal tubing plug. 4,651,818, 3-24-87, Cl. 166-115.000.

Johnson, Daniel C., and Brummel, David J., to Maremont Corporation. Tool for removal of rubber exhaust hangers. 4,706,358, 11-17-87, Cl. 29-235.000.

Johnson, Daniel D., to W. L. Gore & Associates, Inc. Dielectric materials. 4,680,220, 7-14-87, Cl. 428-241.000.

Johnson, Daniel H., to Union Carbide Corporation. Liquid cathode cell system employing a coiled electrode assembly. 4,664,989, 5-12-87, Cl. 429-94.000.

Johnson, David A. Safety device including chamber probe. 4,709,496, 12-1-87, Cl. 42-70.110.

Johnson, David A.: *See*—
  Bolz, Alfred; Shroyer, Richard A.; and Johnson, David A., 4,668,099, Cl. 366-287.000.

Johnson, David B.: *See*—
  Subramanian, Mahadevan; Monday, Richard D.; Johnson, David B.; and Kleinschrodt, Frank J., 4,673,490, Cl. 208-354.000.

Johnson, David D., and Biller, Cleveland J., to United States of America, Agriculture. Auto-release logging choker. 4,637,643, 1-20-87, Cl. 294-75.000.

Johnson, David D.: *See*—
  Biller, Cleveland J., and Johnson, David D., 4,679,803, Cl. 280-6.00H.

Johnson, David E. Heat engine. 4,653,269, 3-31-87, Cl. 60-39.630.

Johnson, David E., to Faria, John R. Boat cockpit enclosure. 4,706,599, 11-17-87, Cl. 114-361.000.

Johnson, David E.: *See*—
  Menard, Michael J.; Helmstetter, Thomas J., Sr.; and Johnson, David E., 4,699,808, Cl. 427-180.000.

Johnson, David G. Psychological testing of the visually impaired. 4,652,242, 3-24-87, Cl. 434-363.000.

Johnson, David J.; McGinnis, Mark L.; Turner, William H.; and Slaughter, Ivan K., to Otis Engineering Corporation. Wellhead connector. 4,667,986, 5-26-87, Cl. 285-24.000.

Johnson, David W., and Tyler, Keith A., to Goodyear Tire & Rubber Company, The. Idler pulley. 4,634,409, 1-6-87, Cl. 474-152.000.

Johnson, David W. Question and answer game structure particularly for use in a restaurant or the like. 4,678,188, 7-7-87, Cl. 273-1.00R.

Johnson, David W. Interlocking joint wine rack. 4,715,503, 12-29-87, Cl. 211-74.000.

Johnson, David W., Jr.; MacChesney, John B.; Rabinovich, Eliezer M.; and Vogel, Eva M., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Fabrication of high-silica glass article. 4,707,174, 11-17-87, Cl. 65-18.100.

Johnson, David W., Jr.: *See*—
  Cohen, Leonard G.; Johnson, David W., Jr.; and MacChesney, John B., 4,691,990, Cl. 350-96.330.

Johnson, Davin W.: *See*—
  Hegel, James D., and Johnson, Davin W., 4,637,907, Cl. 264-45.700.

Johnson, Dennis E. J., and Johnson, Scott J. Systems of ionized oxygen allotrope gas water purification and method and apparatus therefor. 4,655,933, 4-7-87, Cl. 210-721.000.

Johnson, Dennis M., and Surrency, H. Sayer. Training device for kicking a football or soccer ball. 4,711,0[illegible], 12-8-87, Cl. 36[illegible].

Johnson, Dewey A.; Hamlin, Gregory P.; and Schukar, Gary W. Paper handling system. 4,641,555, 2-10-87, Cl. 83-29.000.

Johnson, Don E., and Johnson, D. Scott. Engine with pneumatic valve actuation. 4,702,147, 10-27-87, Cl. 91-318.000.

Johnson, Don L.: *See*—
  Castelli, Joseph Q., and Johnson, Don L., 4,712,84[illegible], Cl. 312-242.000.

Johnson, Donald A., to Nalco Chemical Company. Method for prevention of phosphonate decomposition by chlorine. 4,642,194, 2-10-87, Cl. 210-699.000.

Johnson, Donald A., to Nalco Chemical Company. Method for prevention of phosphonate decomposition by chlorine. 4,711,724, 12-8-87, Cl. 210-699.000.

Johnson, Donald K.: *See*—
  Green, Kenneth E.; Johnson, Donald K.; and Woodruff, Roger W., 4,682,568, Cl. 122-235.000.

Johnson, Donald L.: *See*—
  Malik, Arshad H.; Urfer, Allen D.; McDaniel, Robert S.; and Johnson, Donald L., 4,678,595, Cl. 252-174.170.
  Warren, Wayne F.; Nussbaum, Theodore W.; Cox, Percy T.; and Johnson, Donald L., 4,687,995, Cl. 324-341.000.

Johnson, Douglas W. Adjustable breast bridge for use in multiple-plane interstitial breast implants. 4,682,593, 7-28-87, Cl. 128-303.00R.

Johnson, Duane R.: *See*—
  Pugh, James G.; Johnson, Duane R.; and Bartholomew, Roy E., 4,691,968, Cl. 303-52.000.

Johnson, Dwight N., to Masco Corporation. Adjustable vacuum breaker fill valve. 4,646,779, 3-3-87, Cl. 137-426.000.

Johnson, Dwight N., to Masco Corporation. Metering valve. 4,662,602, 5-5-87, Cl. 251-44.000.

Johnson, Edward C., Jr.; Johnson, Leroy M.; and Jewison, Kevin. Concrete form spreader bracket. 4,635,895, 1-13-87, Cl. 249-5.000.

Johnson, Edward N., and Puncoch, Miloslav, to Boeing Company, The. Apparatus for supporting an aircraft guide track for a movable airfoil. 4,687,162, 8-18-87, Cl. 244-213.000.

Johnson Electric Industrial Manufactory Limited: *See*—
  Baines, Roger F., 4,705,972, Cl. 310-71.000.
  Strobl, Georg, 4,656,380, Cl. 310-236.000.

Johnson, Elizabeth A.: *See*—
  Connor, David T.; Cetenko, Wiaczeslaw A.; Unangst, Paul C.; and Johnson, Elizabeth A., 4,703,053, Cl. 514-382.000.

Johnson Enterprises, Inc.: *See*—
  Jacobson, Charles S., 4,665,940, Cl. 137-212.000.

Johnson, Eric: *See*—
  Applequist, Roy E.; Johnson, Eric; and Adee, Ray A., 4,664,2[illegible], Cl. 172-311.000.

Johnson, Eric A., and Price, Lynn A., II, to International Business Machines Corporation. Tool failure detector. 4,642,618, 2-10-87, Cl. 340-683.000.

Johnson, Eric C., to Owens-Illinois, Inc. Blow molding apparatus. 4,648,831, 3-10-87, Cl. 425-540.000.

Johnson, Eric D., to International Business Machines Corporation. Process for forming a self-aligned low resistance path in semiconductor devices. 4,669,178, 6-2-87, Cl. 29-571.000.

Johnson, Erlon F.: *See*—
  Johnescu, Douglas M., and Johnson, Erlon F., 4,659,156, Cl. 339-17.00C.

Johnson, Ewing A.: *See*—
  Bonasso, Jack L.; Harper, James T.; and Johnson, Ewing A., 4,704,135, Cl. 48-73.000.

Johnson Fishing Inc.: *See*—
  Hastings, John D., and Siemer, Dennis K., 4,634,94[illegible], Cl. 318-443.000.

Johnson, Francis, and Grollman, Arthur P., to Research Foundation of State University of New York, The. Oxo propenyl nucleosides and nucleoside related analogs. 4,689,321, 8-25-87, Cl. 514-45.000.

Johnson, Frank, to Wellform Engineering Company, Ltd. Handling apparatus and method. 4,652,200, 3-24-87, Cl. 414-416.000.

Johnson, Fred, Jr.: *See*—
  Blevins, Gerald G.; Johnson, Fred, Jr.; Lentz, Frank R.; and Roos, John P., 4,641,407, Cl. 29-237.000.

Johnson, Fred L., to Thomas, R. L. and Rouse, W. J., a part interest. Power output mechanism for an internal combustion engine. 4,712,518, 12-15-87, Cl. 123-48.00B.

Johnson, Frederick O., to Westinghouse Electric Corp. Method and apparatus for firing angle control of series connected thyristor switches. 4,639,851, 1-27-87, Cl. 363-164.000.

Johnson, Frederick O.: *See—*
  Wolf, Joachim E.; Maiden, Charles W.; Kruper, Andrew P.; and Johnson, Frederick O., 4,664,247, Cl. 198-323.000.

Johnson, Frederick W., to Seal-Tech, Inc. Liner connection. 4,707,001, 11-17-87, Cl. 285-332.300.

Johnson, Gary, to Heil Co., The. Refuse collection truck and apparatus for controlling compaction of refuse. 4,690,607, 9-1-87, Cl. 414-517.000.

Johnson, Gary E.; Van Egeren, Andrew M.; Campbell, James F.; and Spencer, Harvey J., to Paper Converting Machine Company. Method of operating a diaper producing machine and apparatus. 4,650,173, 3-17-87, Cl. 270-45.000.

Johnson, George A.: *See—*
  Hagemann, Alfred A. W. A.; and Johnson, George A., 4,663,068, Cl. 252-99.000.

Johnson, George C.: *See—*
  Cubit, Harry T.; and Johnson, George C., 4,709,888, Cl. 248-73.000.

Johnson, George E., and Newman, Walter, to Leviton Manufacturing Company, Inc. Theft-resistant device for fluorescent lamp. 4,637,671, 1-20-87, Cl. 339-50.00R.

Johnson, George E., and Newman, Walter, to Leviton Manufacturing Company, Inc. Fluorescent lamp mounting system. 4,643,503, 2-17-87, Cl. 339-50.00R.

Johnson, George E., and Newman, Walter, to Leviton Manufacturing Company, Inc. Clip device. 4,664,465, 5-12-87, Cl. 339-119.00L.

Johnson, George P., Jr., to North Houston Machine, Inc. Automatic drill pipe breakout. 4,660,634, 4-28-87, Cl. 166-77.500.

Johnson, George W., Jr.: *See—*
  Goff, John G.; and Johnson, George W., Jr., 4,659,988, Cl. 324-207.000.

Johnson, Gerald L.: *See—*
  Bhalaik, Arun; Braddick, Peter W.; Brittin, Darryl S.; and Johnson, Gerald L., 4,695,194, Cl. 405-207.000.
  Field, Almeron J.; Johnson, Gerald L.; and Whyte, Daniel G., 4,666,341, Cl. 405-217.000.

Johnson, Gerald T., Sr. Swather with swinging hitch. 4,682,462, 7-28-87, Cl. 56-228.000.

Johnson, Gerald W. Fat collection and injection process into same body. 4,710,162, 12-1-87, Cl. 604-51.000.

Johnson, Gerald W. Lipoject needle. 4,710,180, 12-1-87, Cl. 604-239.000.

Johnson, Gilbert C.: *See—*
  Grant, Richard J.; Johnson, Gilbert C.; and Landin, Heather V., 4,654,233, Cl. 427-379.000.

Johnson, Gilbert L., Jr.: *See—*
  McMahon, Donald H.; and Johnson, Gilbert L., Jr., 4,715,028, Cl. 370-3.000.

Johnson, Glenn S.: *See—*
  Metzger, David B.; Johnson, Glenn S.; and Bramel, Michael D., 4,678,531, Cl. 156-250.000.

Johnson, Glenn W.: *See—*
  Harvey, Frederick W.; and Johnson, Glenn W., 4,641,936, Cl. 354-212.000.

Johnson, Glyn: *See—*
  Eastwood, Linda M.; Hutchison, James M. S.; Johnson, Glyn; Redpath, Thomas W. T.; Selbie, Robert D.; and Mallard, John R., 4,651,095, Cl. 324-307.000.
  Edelstein, William A.; Hutchison, James M. S.; Johnson, Glyn; Redpath, Thomas W. T.; and Mallard, John R., 4,706,025, Cl. 324-309.000.
  Redpath, Thomas W. T.; Selbie, Robert D.; Hutchison, James M. S.; Eastwood, Linda M.; Johnson, Glyn; and Mallard, John R., 4,652,825, Cl. 324-318.000.

Johnson, Gordon E.: *See—*
  Smith, Thomas W.; Ward, Anthony T.; Luca, David J.; and Johnson, Gordon E., 4,638,335, Cl. 346-135.100.

Johnson, Graham: *See—*
  Rafferty, Michael F.; and Johnson, Graham, 4,689,182, Cl. 260-404.000.
  Ross, Barry C.; and Johnson, Graham, 4,675,396, Cl. 540-310.000.

Johnson, Grover L.: *See—*
  Wright, Thomas C.; and Johnson, Grover L., 4,692,473, Cl. 521-72.000.

Johnson, Harlan B.; Krivak, Thomas G.; and Longhini, David A., to PPG Industries, Inc. Preparation of amorphous, precipitated silica and siliceous filler-reinforced microporous polymeric separator. 4,681,750, 7-21-87, Cl. 423-339.000.

Johnson, Harold E. Muzzle stabilization arrangement for firearms. 4,643,073, 2-17-87, Cl. 89-14.300.

Johnson, Harold G. Tie-down rail for truck bed. 4,650,382, 3-17-87, Cl. 410-110.000.

Johnson, Harold R., and Lombardi, Steven E., to Johnson, Harold R. Energy saving furnace controller. 4,667,874, 5-26-87, Cl. 236-10.000.

Johnson, Harold R., III; Phillips, Allyn E.; Carrigan, Erwin R.; Virgo, Richard A.; and Mickelson, James E., to Emerson Electric Co. Shaft aligned backstop for a reducer. 4,697,675, 10-6-87, Cl. 192-7.000.

Johnson, Harold V.: *See—*
  Schoenbaum, Gary L.; Latanzi, Lewis A.; Hedrick, Stephen L.; and Johnson, Harold V., 4,695,157, Cl. 356-237.000.

Johnson, Harvey R., to Strain Measurement Devices Limited. Method of manufacture of strain gauges. 4,680,858, 7-21-87, Cl. 29-610.0SG.

Johnson, Henry F.: *See—*
  Ewbank, Michael E.; and Johnson, Henry F., 4,709,665, Cl. 122-510.000.

Johnson, Henry S.: *See—*
  Roberts, David; and Johnson, Henry S., 4,678,493, Cl. 65-134.000.

Johnson, Hoke S.: *See—*
  Allen, James C.; Bartlett, Wendy B.; Johnson, Hoke S.; Fisher, Steven D.; Larson, Richard O.; and Peck, John C., 4,663,706, Cl. 364-200.000.

Johnson, Hoke S., III: *See—*
  Allen, James C.; Bartlett, Wendy B.; Johnson, Hoke S., III; Fisher, Steven D.; Larson, Richard O.; and Peck, John C., 4,667,287, Cl. 364-200.000.

Johnson, Homer K., to Dow Chemical Company, The. Device and method for separating individual fluids from a mixture of fluids. 4,707,267, 11-17-87, Cl. 210-650.000.

Johnson, Howard B., to Consolidated Ceramic Products, Inc. Zircon and MgO preheatable insulating refractory liners and methods of use thereof. 4,696,455, 9-29-87, Cl. 266-44.000.

Johnson, Howard B., to Consolidated Ceramic Products, Inc. Alumina and MgO preheatable insulating refractory liners and methods of use thereof. 4,703,022, 10-27-87, Cl. 501-95.000.

Johnson, Irvin D., to Marathon Oil Company. Method and apparatus for measuring water in crude oil. 4,644,263, 2-17-87, Cl. 324-65.00P.

Johnson, James A., and Schmidt, Robert J., to UOP Inc. Isomerization of high sulfur content naphthas. 4,665,273, 5-12-87, Cl. 585-739.000.

Johnson, James A.; Schulz, Richard; and Tomlonovic, Vincent J., to Hiniker Company. Tractor boom. 4,693,331, 9-15-87, Cl. 180-135.000.

Johnson, James L., to McCreary Industrial Products Co. Fabric reinforced tubular rubber bladders and method of making same. 4,692,362, 9-8-87, Cl. 428-35.000.

Johnson, James R., and Hudgens, Mark, to AML Inc. Method and apparatus for producing drawstring bags. 4,664,649, 5-12-87, Cl. 493-197.000.

Johnson, James R. Slit sealing method and apparatus. 4,687,532, 8-18-87, Cl. 156-251.000.

Johnson, James R. Sealer for side gusseted bags. 4,692,135, 9-8-87, Cl. 493-394.000.

Johnson, James S., and Albrecht, Gene A., to Honeywell Inc. Magnetic flux detector correction system. 4,680,866, 7-21-87, Cl. 33-356.000.

Johnson, Janet L. M.: *See—*
  Grossman, David G.; and Johnson, Janet L. M., 4,652,312, Cl. 106-35.000.

Johnson, Jay K.: *See—*
  Gurries, Richard M.; Johnson, Jay K.; and Nering, Eric A., 4,679,268, Cl. 110-346.000.
  Schwartz, Arthur G.; Gurries, Richard M.; and Johnson, Jay K., 4,690,697, Cl. 55-84.000.

Johnson, Jeffrey B., to Sashco, Inc. Portable progressive cavity pump. 4,651,897, 3-24-87, Cl. 222-55.000.

Johnson, Jeffrey C.; Rothon, Stephen; and Slater, Andrew J., to Hayden Schweitzer Corp. Method and apparatus for applying paint. 4,704,952, 11-10-87, Cl. 98-115.200.

Johnson, Jeffrey M.; Lindskog, Jon L.; and Schoenig, Darrell A., to Ultimate Support Systems, Inc. Adjustable support apparatus. 4,671,479, 6-9-87, Cl. 248-173.000.

Johnson, Jesse F.: *See—*
  Bell, Albert H., III; and Johnson, Jesse F., 4,639,194, Cl. 416-241.00B.

Johnson, Joel W.: *See—*
  Healy, John T.; and Johnson, Joel W., 4,714,031, Cl. 110-109.000.

Johnson, John A.; Gandolf, Edward O.; and Preksta, Ronald M., to American Greetings Corporation. Knock-down merchandise display fixture. 4,655,353, 4-7-87, Cl. 211-189.000.

Johnson, John A.: *See—*
  Hood, Donald W.; Johnson, John A.; and Smartt, Herschel B., 4,712,722, Cl. 228-104.000.

Johnson, John B. H.: *See—*
  Pinto, Alwyn; and Johnson, John B. H., 4,695,442, Cl. 423-359.000.

Johnson, John L.: *See—*
  Schmidt, Albert L.; Sherwin, Gary W.; Blackham, Kenneth K.; and Johnson, John L., 4,706,679, Cl. 128-639.000.

Johnson, John Morton: *See—*
  Lankry, Julien J. L., 4,653,358, Cl. 81-474.000.

Johnson, John R.: *See—*
  Villa, Gino; Johnson, John R.; and Hale, Alan A., 4,668,132, Cl. 407-117.000.

Johnson, John S.: *See—*
  Studniarz, Stanley A.; Botts, John C.; and Johnson, John S., 4,634,911, Cl. 310-215.000.

Johnson, Johnny R.: *See—*
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Johnson, Peter D., to United States of America, Energy. Very high efficacy electrodeless high intensity discharge lamps. 4,705,987, 11-10-87, Cl. 313-634.000.

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Johnson, Pierce, Jr., to GTE Products Corporation. Reflector-type lamp having reduced focus loss. 4,686,412, 8-11-87, Cl. 313-344.000.

Johnson, Porter C., to Bristol-Myers Company. Novel bile sequestrant resin. 4,649,048, 3-10-87, Cl. 424-81.000.

Johnson, Ralph E.; and Rodda, Donald, to Singer Company, The. Needle looper assembly for non-threaded needle lockstitching. 4,714,037, 12-22-87, Cl. 112-184.000.

Johnson, Ralph K.; Kaya, Azmi; Keyes, Marion A., IV; and Moss, William H., to Babcock & Wilcox Company, The. Steam generator on-line efficiency monitor. 4,685,072, 8-4-87, Cl. 364-551.000.

Johnson, Randall, to Donkerbrook, Deborah; Carstersen, Ronald; Carstersen, Gail; and Johnson, Randall. Battery holder for coin type batteries. 4,692,846, 9-8-87, Cl. 362-104.000.

Johnson, Randall E., and Spencer, John E., to Texas Instruments Incorporated. Anodized aluminum substrate for plasma etch reactor. 4,657,617, 4-14-87, Cl. 156-345.000.

Johnson, Randall E.; Peters, Louis E., and Simmons, Lowell E., to Texas Instruments Incorporated. Low particulate vacuum chamber input/output valve. 4,657,621, 4-14-87, Cl. 156-345.000.

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Johnson, Richard A., to C & K Systems, Inc. Fault detecting intrusion detection device. 4,710,750, 12-1-87, Cl. 340-522.000.

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Johnson, Richard E.; Johnson, Robert R.; and Cribbs, Doyle E., to GTE Products Corporation. Socket receptacle including overstress protection means for mounting electrical devices on printed circuit boards. 4,657,336, 4-14-87, Cl. 339-258.00R.

Johnson, Richard H.; Selin, Howard; and Kuhn, Wayne H., to Stone Container Corporation. Apparatus for erecting and loading a paperboard carton manually. 4,662,150, 5-5-87, Cl. 53-458.000.

Johnson, Richard K. Apparatus for producing sterility in female animals. 4,637,818, 1-20-87, Cl. 604-89.000.

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Johnson, Roger E., to White Consolidated Industries, Inc. High temperature, zero leakage packing assembly. 4,640,305, 2-3-87, Cl. 137-312.000.

Johnson, Roger E., to White Consolidated Industries, Inc. High temperature balanced valve trim. 4,712,769, 12-15-87, Cl. 251-324.000.

Johnson, Roger L. Disaster mitigation gas shut-off device. 4,658,846, 4-21-87, Cl. 137-39.000.

Johnson, Roger L., to Navistar International Transportation Corp. Independent exhaust gas heat system. 4,705,214, 11-10-87, Cl. 237-12.30C.

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Johnson, Ronald C.: *See—*

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Johnson, Ronald F.; and Nicklas, Norman E. Apparatus for implanting implants in cattle. 4,659,326, 4-21-87, Cl. 604-62.000.

Johnson, Ronald R.; and Melville, James A., to IXI Laboratories, Inc. Disk drive with multiple head cartridge. 4,667,258, 5-19-87, Cl. 360-99.000.

Johnson, Roy A.; and Ganz, Robert H., to Mead Corporation, The. Web perforating apparatus. 4,691,606, 9-8-87, Cl. 83-175.000.

Johnson, Roy E. Split elastomer ring for repairing potheads and process of repairing a pothead therewith. 4,712,800, 12-15-87, Cl. 277-1.000.

Johnson, Roy R. Roll up tarp assembly. 4,659,134, 4-21-87, Cl. 296-98.000.

Johnson, Roy S. Windshield attachment clip. 4,692,969, 9-15-87, Cl. 24-573.000.

Johnson, Russell W., to UOP Inc. Process for the removal of hydrocarbonaceous compounds from an aqueous stream and hydrogenating these compounds. 4,661,256, 4-28-87, Cl. 210-634.000.

Johnson, Russell W.: *See—*

Lambert, Susan L.; Lawson, Randy J.; Johnson, Russell W.; and Barr, Tery L., 4,652,689, Cl. 585-415.000.

Johnson, Samuel A., to Hewlett-Packard Company. Thermal ink jet print head method of manufacture. 4,680,859, 7-21-87, Cl. 29-611.000.

Johnson, Samuel A., to Hewlett-Packard Company. Thermal ink jet common-slotted ink feed printhead. 4,683,481, 7-28-87, Cl. 346-140.00R.

Johnson, Scott J.: *See—*

Johnson, Dennis E. J.; and Johnson, Scott J., 4,655,933, Cl. 210-721.000.

Johnson Service Company: *See—*

Bly, Tom C., 4,709,757, Cl. 165-173.000.

Carusillo, Steven J., 4,661,768, Cl. 324-60.00C.

DeMeyer, Roy W., 4,637,546, Cl. 236-49.000.

Gish, Larry D., 4,709,721, Cl. 137-437.000.

Johnson, Stanley A. Doorway safety gate apparatus. 4,702,01, 10-27-87, Cl. 49-55.000.

Johnson, Stephen R.: *See—*

Bland, Gerald F.; Johnson, Stephen R.; and Sullivan, Donald K., 4,659,315, Cl. 440-61.000.

Bland, Gerald F.; and Johnson, Stephen R., 4,687,450, Cl. 440-89.000.

Johnson, Steve A.; and Shannon, Robert R., to United States of America, Energy. Diagnostic apparatus and method for use in the alignment of one or more laser means onto a fiber optics interface. 4,673,290, 6-16-87, Cl. 356-73.100.

Johnson, Steven A. Apparatus and method for acoustic imaging using inverse scattering techniques. 4,662,222, 5-5-87, Cl. 73-602.000.

Johnson, Steven E.; Karat, John; and Ruiz, Thomas M., to International Business Machines Corporation. Method for providing an on line help facility for interactive information handling systems. 4,648,062, 3-3-87, Cl. 364-900.000.

Johnson, Steven L.; Adams, Martin E.; Leffingwell, James P.; Musser, John J.; Hedges, William H.; and Robberts, Thomas L., to Gebr. P. Reintjes Co., Inc. Apparatus for lining furnace walls. 4,669,242, 6-2-87, Cl. 52-404.000.

Johnson, Terence R.: *See—*

Blakeman, Peter J.; Johnson, Terence R.; and Pfeiffer, Claes F. H., 4,699,810, Cl. 427-244.000.

Johnson, Terry W.; Harms, Daryl E.; and Curl, Ricky L., to Positron Corp. Electronic information dissemination system. 4,695,, 9-22-87, Cl. 358-86.000.

Johnson, Theodore D., to Concept Polymer Technologies, Inc. Enteral feeding tubes. 4,698,059, 10-6-87, Cl. 604-270.000.

Johnson, Thomas A.; and Cooper, Cawas A., to Air Products and Chemicals, Inc. Synthesis of heterocyclic amines via the reaction of dialkylene glycol and ammonia. 4,709,028, 11-24-87, Cl. 544-106.000.

Johnson, Thomas H. Protective cover for boat hoist bumper. 4,653,420, 3-31-87, Cl. 114-219.000.

Johnson, Thomas H., to Shell Oil Company. Lubricant composition. 4,658,072, 4-14-87, Cl. 585-24.000.

Johnson, Thomas H. Process for preparing tantalum (v) chloride-fluorine/oxide-metal oxide compositions. 4,670,411, 6-2-87, Cl. 502-60.000.

Johnson, Timothy J., to Harris Corporation. Internally synchronous matrix structure for use in externally asynchronous programmable devices. 4,658,253, 4-14-87, Cl. 340-825.830.

Johnson, Timothy J.: *See—*

Harvey, Ian E.; Williams, David G.; Fisher, Barbara J.; and Johnson, Timothy J., 4,686,384, Cl. 307-202.100.

Johnson, Timothy W.; Beever, William H.; O'Connor, James E.; and Blackwell, Jennings P., to Phillips Petroleum Company. Method of producing poly(arylene sulfide) compositions and articles made therefrom. 4,690,972, 9-1-87, Cl. 524-609.000.

Johnson, Van B., and Adolphson, Douglas G., to Du Pont de Nemours, E. I., and Company. Process for preparing surprint proof of an improved support. 4,634,658, 1-6-87, Cl. 430-293.000.

Johnson, Van B., and Nicosia, Salvatore J., to Du Pont de Nemours, E. I., and Company. Daylight x-ray cassette having a weight to improve film release. 4,712,228, 12-8-87, Cl. 378-185.000.

Johnson, Vincent L.; and Moser, Kurt, to Dow Chemical Company, The. High-pressure mixing head. 4,707,339, 11-17-87, Cl. 422-133.000.

Johnson, Virgil E., Jr., to Hydronautics, Incorporated. Enhancing liquid jet erosion. 4,681,264, 7-21-87, Cl. 239-589.100.

Johnson, Walter A.: *See—*

Kemp, Preston B., Jr.; Johnson, Walter A.; and Steigelman, James Q., 4,705,560, Cl. 75-0.50B.

Kemp, Preston B., Jr.; and Johnson, Walter A., 4,711,660, Cl. 75-0.50B.

Kemp, Preston B., Jr.; and Johnson, Walter A., 4,711,661, Cl. 75-0.50B.

Paliwal, Muktesh; and Johnson, Walter A., 4,687,511, Cl. 75-0.50B.

Paliwal, Muktesh; Johnson, Walter A.; and Miller, John E., 4,690,796, Cl. 419-12.000.

Johnson, Walter D.: *See—*

Hancock, Jack A.; Johnson, Walter D.; and Kennedy, Alan D., 4,639,347, Cl. 264-291.000.

Hancock, Jack A.; Johnson, Walter D.; and Kennedy, Alan D., 4,704,329, Cl. 428-369.000.

Johnson, Wayne J.: *See—*

Crawford, Robert D.; Johnson, Wayne J.; Kimber, Theo, Jr.; Nolff, Douglas; Volk, Jack R.; and Franks, Donald C., 4,715,031, Cl. 370-85.000.

Johnson, Wayne L.: *See—*

Robinson, McDonald; Behee, Ronald D.; deBoer, Wiebe B.; and Johnson, Wayne L., 4,654,509, Cl. 219-405.000.

Johnson, Wendell D., to Qualitrol Corporation. Pressure relief device. 4,676,266, 6-30-87, Cl. 137-242.000.

Johnson, Wendell L.: *See—*

Cellier, Francis; Graulty, Robert T.; Johnson, Wendell L.; Batson, David M.; Limpert, John C.; Wu, Christopher K. C.; Bucher, George D.; John, Clarence D., Jr.; Steinkirchner, John E.; Larouere, Paula J.; Shah, Hemant H.; and Williams, Robert A., 4,687,605, Cl. 264-0.500.

Johnson, Wilfred V., to U.S. Fire Control Corporation. Automatic on-off sprinkler head. 4,706,758, 11-17-87, Cl. 169-19.000.

Johnson, William B., to Ingersoll Cutting Tool Company. On-edge end-milling insert. 4,712,949, 12-15-87, Cl. 407-42.000.

Johnson, William C.: *See—*
- Cox, Larry B.; Johnson, William C.; and Marpoe, Roland W., 4,653,553, Cl. 141-114.000.

Johnson, William G.; and Romagnoli, Gary B. Container for disposable expended medical supplies. 4,714,168, 12-22-87, Cl. 220-1.00T.

Johnson, William L.: *See—*
- Atzmon, Michael; Johnson, William L.; and Verhoeven, John D., 4,640,816, Cl. 419-24.000.

Johnson, William M.; and Mere, Ilmar, to Ralph McKay Limited. Earth engaging implements. 4,638,868, 1-27-87, Cl. 172-762.000.

Johnson, William M., to Charles Stark Draper Laboratory, Inc., The. Common optical aperture laser separator for reciprocal path optical. 4,684,796, 8-4-87, Cl. 250-201.000.

Johnson, William M.; and Mere, Ilmar, to Ralph McKay Limited. Deep tillage sweep. 4,697,646, 10-6-87, Cl. 172-730.000.

Johnson, William M. Bicycle reflector for handlebar attachment. 4,715,681, 12-29-87, Cl. 350-99.000.

Johnson, William Z. Cascode amplifier. 4,647,872, 3-3-87, Cl. 330-311.000.

Johnson-Williams, Mark B.: *See—*
- Murtha, Eugene A.; Johnson-Williams, Mark B.; Madison, Theodore N.; and Cartabiano, Michael C., 4,642,710, Cl. 360-79.000.

Johnsson, Rolf. Filtering device for vehicle exhaust. 4,706,455, 11-17-87, Cl. 60-311.000.

Johnstead, Park L. Drive-line puller. 4,658,488, 4-21-87, Cl. 29-259.000.

Johnston, Alan A.; and Cuellar, John P., Jr., to Tenneco Inc. Preservative oil for metal surfaces and method. 4,668,413, 5-26-87, Cl. 252-56.00R.

Johnston, Albert D.; Tengowski, Joseph L.; Steele, Ernest G.; and Molloy, Edward W., to General Motors Corporation. Thurst type one-way roller clutch. 4,667,788, 5-26-87, Cl. 192-45.000.

Johnston, Albert D.: *See—*
- Lederman, Frederick E.; and Johnston, Albert D., 4,664,237, Cl. 192-45.000.

Johnston, Andrew E.; Meyer, Jon A.; and Miller, Ronald. Turbocharger water-cooled bearing housing. 4,704,075, 11-3-87, Cl. 417-407.000.

Johnston, Anthony M., to University of Sydney. Plate type heat exchanger. 4,665,975, 5-19-87, Cl. 165-167.000.

Johnston, Barry W. Closed loop solar collector system powering a self-starting uniflow engine. 4,698,973, 10-13-87, Cl. 60-670.000.

Johnston, Bruce L., to Butler Manufacturing Company. Shear beam weigh axle transducer. 4,694,921, 9-22-87, Cl. 177-136.000.

Johnston, Charles F. Valve assembly for a sphygmomanometer. 4,690,171, 9-1-87, Cl. 137-877.000.

Johnston, Clifford V.: *See—*
- Boyles, William C.; Hagge, Douglas R.; and Johnston, Clifford V., 4,640,528, Cl. 280-789.000.
- Hagge, Douglas R.; and Johnston, Clifford V., 4,699,558, Cl. 474-458.000.

Johnston, Damon A.; and Garcia, George L., to Suncast Corporation. Quick coupling connector for connecting flexible liquid conduits. 4,660,803, 4-28-87, Cl. 251-149.100.

Johnston, Damon A.; and Garcia, George L., to Suncast Corporation. Fertilizer spreader. 4,671,434, 6-9-87, Cl. 222-625.000.

Johnston, David; and Lawson, Kenneth F., to Connaught Laboratories Limited. Oral immunization of mammals. 4,650,673, 3-17-87, Cl. 424-84.000.

Johnston, David A.: *See—*
- Schultz, Ronald E.; Schmidt, Otomar; and Johnston, David A., 4,638,452, Cl. 364-900.000.

Johnston, Everett E., to Esco Elevators, Inc. Piston and cable termination assemblies for hydraulic cable-cylinder type elevators. 4,671,388, 6-9-87, Cl. 187-17.000.

Johnston, Franklin R., Sr., to Memorial Management and Marketing Concepts, Inc. Lawn crypt. 4,648,219, 3-10-87, Cl. 52-131.000.

Johnston, Fred E. Hand powered tricycle having a wheelchair hitch. 4,695,071, 9-22-87, Cl. 290-204.000.

Johnston, G. Gilbert. Volumetric flow rate determination in conduits not directly accessible. 4,637,401, 1-20-87, Cl. 128-663.000.

Johnston, G. Gilbert. Volumetric flow rate determination in conduits not directly accessible. 4,674,336, 6-23-87, Cl. 73-861.250.

Johnston, Gary L.; and Lambert, Harvey J., to General Motors Corporation. Viscous clutch for engine cooling fan with optimized low speed disengagement. 4,699,258, 10-13-87, Cl. 192-58.00B.

Johnston, H. Fred: *See—*
- Wilkinson, Blair E., 4,711,579, Cl. 356-375.000.

Johnston, Harry R., to Mega Enterprises, Inc. Clip removing tool. 4,658,489, 4-21-87, Cl. 29-268.000.

Johnston, Howard; and Troxell, Lillian H., to Dow Chemical Company, The. Certain pyridyloxy or thio-phenoxy-propanoic acids or salts thereof useful as herbicides. 4,678,509, 7-7-87, Cl. 71-94.000.

Johnston, James: *See—*
- Dalziel, Warren L.; Flanigan, Charles; Daniels, Donald V.; Lee, John S.; and Johnston, James, 4,636,902, Cl. 360-128.000.

Johnston, James E.: *See—*
- Alexander, Phillip W.; Freberg, Michael S.; Howell, Keith A.; and Johnston, James E., 4,650,259, Cl. 305-10.000.

Johnston, James H.; Hermann, George D.; and Atagi, Tanya A., to Fogarty, Thomas J. Heatable dilation catheter. 4,709,698, 12-1-87, Cl. 128-303.120.

Johnston, James M.: *See—*
- Carlson, Norman R.; and Johnston, James M., 4,646,273, Cl. 367-32.000.

Johnston, James R., to National Manufacturing Co. Trolley hanger for sliding door. 4,642,844, 2-17-87, Cl. 16-98.000.

Johnston, James R.; and Crown, Marlin D., to National Manufacturing Co. Gate latch. 4,643,469, 2-17-87, Cl. 292-66.000.

Johnston, Jerry A.: *See—*
- Roland, David R.; Johnston, Jerry A.; and Pomplun, William S., 4,665,306, Cl. 219-388.000.

Johnston, John G., to M. O. Enterprises, Inc. Air pressure gauge tool. 4,694,691, 9-22-87, Cl. 73-146.800.

Johnston, Joseph E., to Rogers Corporation. Rolled delay line of the coplanar line type. 4,675,625, 6-23-87, Cl. 333-161.000.

Johnston, Joseph E., to Rogers Corporation. High permeability rolled delay line of the coplanar type. 4,675,627, 6-23-87, Cl. 333-161.000.

Johnston, Mary H.: *See—*
- Owen, Robert B.; and Johnston, Mary H., 4,681,437, Cl. 356-129.000.

Johnston, Norman W., to Libbey-Owens-Ford Co. Method of assembling a vehicle from modular components. 4,712,287, 12-15-87, Cl. 29-469.000.

Johnston, Orin B. Method of forming bead seal in biaxially oriented polymer film by heat bonding. 4,648,931, 3-10-87, Cl. 156-251.000.

Johnston, Otis A.: *See—*
- Thigpen, Ben B.; Crump, E. Eugene; Johnston, Otis A.; McPeek, Nathaniel K.; and McNeel, William O., 4,637,000, Cl. 367-172.000.

Johnston Pump/General Valve, Inc.: *See—*
- Giacobbi, Peter D., 4,666,124, Cl. 251-56.000.
- Smith, Gordon M.; Chase, Fred G., Sr.; and Ducharme, Gerard E., 4,679,764, Cl. 251-14.000.
- Williams, Kenneth R., 4,662,394, Cl. 137-614.110.

Johnston, Richard, to Precision Shooting Equipment Company. Molded bow limb. 4,649,889, 3-17-87, Cl. 124-23.00R.

Johnston, Richard, to Precision Shooting Equipment Co. Bow limb and axle mount. 4,660,537, 4-28-87, Cl. 124-86.000.

Johnston, Richard: *See—*
- Shepley, Pete; Johnston, Richard; and Smith, Allan F., 4,697,350, Cl. 33-265.000.

Johnston, Robert F., Jr.: *See—*
- Newcamp, George C.; Johnston, Robert F., Jr.; McConnell, John F.; Ross, Paul R., Jr.; Caripolti, Richard A.; and Peter, John W., 4,668,272, Cl. 65-335.000.

Johnston, Robert L., to Master Industries, Inc. Quick connect fitting. 4,664,427, 5-12-87, Cl. 285-340.000.

Johnston, Ross W., to RCA Corporation. Rotating head apparatus including a flying tape edge guide. 4,686,597, 8-11-87, Cl. 360-130.230.

Johnston, Russell A.; and May, Dwayne E., to Camco, Incorporated. Dump and kill valve for a sidepocket mandrel. 4,651,822, 3-24-87, Cl. 166-117.500.

Johnston, Stephen: *See—*
- Poirier, Clovis; Banville, Marcel; McDonald, Mario; McDonald, Sabin; Johnston, Stephen; and Masson, Jean-Rene, 4,704,815, Cl. 43-4.000.

Johnston, Stephen P., to S. J. Electro Systems, Inc. Alternator circuit arrangement useful in liquid level control system. 4,652,802, 3-24-87, Cl. 318-482.000.

Johnston, Thomas E.; and Dorer, Casper J., Jr., to Lubrizol Corporation, The. Fuel compositions for lessening valve seat recession. 4,659,338, 4-21-87, Cl. 44-68.000.

Johnston, Thomas E.; and Dorer, Casper J., Jr., to Lubrizol Corporation, The. Fuel products comprising a lead scavenger. 4,690,687, 9-1-87, Cl. 44-67.000.

Johnston, Wilbur D., Jr.; Long, Judith A.; and Wilt, Daniel P., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Semiconductor devices employing Fe-doped MOCVD InP-based layer for current confinement. 4,660,208, 4-21-87, Cl. 372-46.000.

Johnston, Wilbur D., Jr.; and Long, Judith A., to American Telephone and Telegraph Company, AT&T Bell Laboratories. MOCVD of semi-insulating indium phosphide based compositions. 4,716,130, 12-29-87, Cl. 437-104.000.

Johnston, William D.; Hori, Yasuhiko; Nagata, Masanori; and Imano, Shigeki, to Baxter Travenol Laboratories, Inc. Laminate film for flexible containers. 4,654,240, 3-31-87, Cl. 428-35.000.

Johnston, William D.; Czuba, Leonard; Webster, R. D.; Hori, Yasuhiko; Nagata, Masanori; and Imano, Shigeki, to Fujimori Kogyo Co., and Baxter Travenol Laboratories, Inc. Film laminate for sterile flexible containers. 4,686,125, 8-11-87, Cl. 428-35.000.

Johnston, William D.; Czuba, Leonard; Webster, R. D.; Hori, Yasuhiko; Nagata, Masanori; and Imano, Shigeki, to Fujimori Kogyo Co., Inc. and Baxter Travenol Laboratories, Inc. Film laminate with gas barrier for sterile flexible containers. 4,692,361, 9-8-87, Cl. 428-35.000.

Johnston, William H., to CSL Group Inc., The. Articulated boom mechanism for unloading bulk solid material from a ship. 4,712,962, 12-15-87, Cl. 414-144.000.

Johnstone, Bradford: *See—*
- Tylisz, Eugene R.; and Johnstone, Bradford, 4,651,650, Cl. 105-218.200.

Johnstone, Douglas S.: *See—*
- Flynn, George C.; and Johnstone, Douglas S., 4,663,051, Cl. 210-675.000.

Johnstone, Thomas O.; and Dawe, Thomas W., to Alcan Aluminum Corporation. Method of making interlocking vinyl siding. 4,649,008, 3-10-87, Cl. 264-177.100.

Johzuka, Takashi: *See—*
Watanabe, Hiroshi; Johzuka, Takashi; and Suzuki, Masanobu, 4,691,376, Cl. 455-131.000.
Joiner, Charles W.; and Shackle, Dale R., to Mead Corporation, The. Exposure of imaging sheets utilizing a light valve as a wavelength transformer. 4,672,014, 6-9-87, Cl. 430-20.000.
Joint Medical Products Corporation: *See—*
Noiles, Douglas G., 4,634,444, Cl. 623-20.000.
Noiles, Douglas G., 4,642,123, Cl. 623-22.000.
Noiles, Douglas G., 4,662,891, Cl. 623-22.000.
Noiles, Douglas G., 4,676,798, Cl. 623-22.000.
Noiles, Douglas G., 4,678,472, Cl. 623-1.800.
Joint Mobilizer Systems Corp.: *See—*
Farris, Ray L.; Rodi, Michael F.; Farris, Ray L., Wylesol, George; and Cook, Thomas A., 4,665,899, Cl. 128-25.00R.
Joishy, Suresh K. Built in assembly for stabilizing and securing intravascular needle or catheter like device. 4,698,057, 10-6-87, Cl. 604-176.000.
Jojima, Teruomi: *See—*
Takeshiba, Hideo; Kinoto, Takao; and Jojima, Teruomi, 4,661,486, Cl. 514-252.000.
Jokel, Isidore. Window intrusion barrier. 4,680,890, 7-21-87, Cl. 49-55.000.
Jokela, Heikki. Side limit post for a load-carrying space. 4,668,000, 5-26-87, Cl. 296-15.000.
Jokela, Veikko: *See—*
Forss, Kaj; Sten, Matti; Peltonen, Juhani; and Jokela, Veikko, 4,681,935, Cl. 536-56.000.
Jokisch, Gerhard: *See—*
Contzen, Franz-Peter; Jokisch, Gerhard; and Vittori, Francesco, 4,647,011, Cl. 251-129.150.
Jokl, Bernhard: *See—*
Abthoff, Joerg; Schuster, Hans-Dieter; Loose, Gunter; and Jokl, Bernhard, 4,667,469, Cl. 60-311.000.
Abthoff, Joerg; Schuster, Hans-Dieter; Loose, Gunter; and Jokl, Bernhard, 4,704,863, Cl. 60-311.000.
Jolin, Terry H.: *See—*
Carlson, Michael G.; Ward, Ronald A.; and Jolin, Terry H., 4,708,315, Cl. 249-192.000.
Joliot, A. Pierre; and Beal, Daniel, to Centre National de la Recherche Scientifique. Spectrophotometer with statistically balanced light for very high resolution. 4,696,570, 9-29-87, Cl. 356-319.000.
Jolitz, William L.; and Williams, Richard A., to Ford Aerospace & Communications Corporation. High voltage high vacuum coating. 4,639,385, 1-27-87, Cl. 427-386.000.
Jolivet, Jean-Claude R.: *See—*
Devimeux, Daniel P. Y.; and Jolivet, Jean-Claude R., 4,660,079, Cl. 358-141.000.
Jolivet, Jean-Pierre: *See—*
Brunet, Maurice L.; and Jolivet, Jean-Pierre, 4,692,699, Cl. 324-207.000.
Jolivet, Michel: *See—*
Beachey, Edwin H.; Tartar, Andre; Gras-Masse, Helene; Jolivet, Michel; Audibert, Francoise; and Chedid, Louis, 4,695,562, Cl. 514-13.000.
Joll, David J.: *See—*
Matthews, Bernard T.; Benstead, Alan J.; Joll, David J.; Thorp, Sidney; and Wilson, David N., 4,663,170, Cl. 426-90.000.
Jolles, Pierre; Migliore-Samour, Daniele; Parker, Fabienne; and Caseretto, Monika, to Institut National de la Sante et de la Recherche Medicale. Hexapeptide, process for obtaining II and the pharmaceutical compositions containing II. 4,637,997, 1-20-87, Cl. 514-17.000.
Jolles, Pierre; Migliore-Samour, Daniele; and Parker, Fabienne, to Rhone-Poulenc Sante. Biologically active substances from fibrinogen their preparation and compositions containing them. 4,647,554, 3-3-87, Cl. 514-21.000.
Jolles, Pierre; Migliore-Samour, Daniele; and Parker, Fabienne, to Rhone-Poulenc Sante. Tripeptides and their use. 4,716,151, 12-29-87, Cl. 514-18.000.
Jolley, Michael E., to Pandex Laboratories, Inc. Method of solid phase immunoassay incorporating a luminescent label. 4,652,533, 3-24-87, Cl. 436-518.000.
Jolley, Michael E., to Pandex Laboratories, Inc. Assay cartridge. 4,704,255, 11-3-87, Cl. 422-101.000.
Jolley, Michael E.: *See—*
Wang, Chao-Huei J.; Stroupe, Stephen D.; and Jolley, Michael E., 4,668,640, Cl. 436-536.000.
Jolley, Sue H.; and Jolley, William H. Storage pod. 4,681,361, 7-21-87, Cl. 296-37.700.
Jolley, William H.: *See—*
Jolley, Sue H.; and Jolley, William H., 4,681,361, Cl. 296-37.700.
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Jolly, Robert; and Butterfield, Colin E., to United Kingdom Atomic Energy Authority. Nuclear reactor fuel assemblies. 4,663,117, 5-5-87, Cl. 376-442.000.
Jolly, Thomas A. Gun sight. 4,679,344, 7-14-87, Cl. 42-100.000.
Joloda Loading Systems Limited: *See—*
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Jolson, Joseph D.: *See—*
Auel, RaeAnn M.; Jolson, Joseph D.; and Stewart, David A., 4,692,220, Cl. 204-1.00T.
Schneider, Alan A.; Stewart, David A.; Jolson, Joseph D.; Auel, RaeAnn M.; and Price, John F., 4,707,242, Cl. 204-412.000.
Jolu, Etienne: *See—*
Dedieu, Alain; Lockhart, Campbell; and Jolu, Etienne, 4,698, Cl. 435-7.000.
Joly, Jean; Oehlert, Yves; Neyroud, Jean; Penot, Oliver; Pergent, Jacky; Barillier, Gilbert; and LeBlanc, Bernard, to La Telemecanique Electrique. Input/output device for an apparatus of the programmable auto-control type, a range of such devices. 4,692,842, 9-8-87, Cl. 361-413.000.
Joly, Jean-Pierre A.: *See—*
Saingier, Jean; and Joly, Jean-Pierre A., 4,652,267, Cl. 8-115.510.
Saingier, Jean; and Joly, Jean-Pierre A., 4,695,641, Cl. 549-552.000.
Joly, Pascale: *See—*
Romeo, Francoise; and Joly, Pascale, 4,684,997, Cl. 358-263.000.
Jomar International, Ltd.: *See—*
Martin, Joseph R., 4,692,948, Cl. 4-286.000.
Jona, Mario, to Campagnolo S.p.A. Toe clip for bicycle pedals. 4,682,514, 7-28-87, Cl. 74-594.600.
Jona, Mario G., to Campagnolo S.p.A. Gearshift for bicycles. 4,699, 10-13-87, Cl. 474-82.000.
Jonak, Vladimir, to Alfa-Laval Marine & Power Engineering AB. Flow indicating device and method. 4,706,504, 11-17-87, Cl. 73-861.580.
Jonak, Zdenka L.: *See—*
Kennett, Roger H.; and Jonak, Zdenka L., 4,652,522, Cl. 435-68.000.
Jonas, Friedrich; and Hocker, Jurgen, to Bayer Aktiengesellschaft. Fusible, electrically conductive mixtures. 4,663,078, 5-5-87, Cl. 252-500.000.
Jonas, Friedrich; Muller, Richard; Merten, Rudolf; and Rottmaier, Ludwig, to Bayer Aktiengesellschaft. Laminates of polyhydantoins. 4,702,953, 10-27-87, Cl. 428-209.000.
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Jonas, Otakar. Particle detector. 4,674,337, 6-23-87, Cl. 73-861.730.
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Jones, James E., to Miles Laboratories, Inc. Test device, method of manufacturing same and method of determining a component in a sample. 4,689,309, 8-25-87, Cl. 436-95.000.

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Jones, James S. Apparatus for volumetrically controlling the flow of a gas and liquid mixture. 4,657,568, 4-14-87, Cl. 55-166.000.

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Jones, John D. Preparation of bromoacetamides. 4,663,481, 5-5-87, Cl. 564-124.000.

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Jones, John F. Apparatus for making chocolate-coated ice cream cookie sandwiches. 4,644,901, 2-24-87, Cl. 118-694.000.

Jones, John G.: *See—*

Corbin, Malcolm J.; and Jones, John G., 4,646,227, Cl. 364-184.000.

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Jones, Keith L., to General Electric Company, p.l.c., The. Power-on reset circuit. 4,698,531, 10-6-87, Cl. 307-592.000.

Jones, Keith W.: *See—*

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Jones, Larren F.: *See—*

Hahn, Frederick C.; and Jones, Larren F., 4,663,867, Cl. 37-142.00A.

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Jones, Marshall G.; and Georgalas, Gregory, to General Electric Company. Apparatus and method for performing laser material processing through a fiber optic. 4,676,586, 6-30-87, Cl. 350-96.200.

Jones, Marshall G., to General Electric Company. High power laser energy delivery system. 4,681,396, 7-21-87, Cl. 350-96.180.

Jones, Martin; and Young, Rodney C., to Smith Kline & French Laboratories Limited. 2-(furanyl alkylamino or thienyl alkylamino or phenylalkylamino)-3-carboxy (or hydroxy)-pyridines. 4,652,572, 3-24-87, Cl. 514-336.000.♦

Jones, Martin A.: *See—*

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Jones, Marvin H.: *See—*

Feldman, Steven; and Jones, Marvin H., 4,654,470, Cl. 174-50.000.

Jones, Marvin L., to Hercules Incorporated. Co-oxidizers in solid crosslinked double base propellants (U). 4,689,097, 8-25-87, Cl. 149-21.000.

Jones, Marvin R., and Helfer, Paul E., to Koomey. Valve apparatus. 4,638,972, 1-27-87, Cl. 251-1.300.

Jones, Marvin R.: *See—*

Helfer, Paul E.; and Jones, Marvin R., 4,655,431, Cl. 251-1.300.

Jones, Massena F. Power wrench. 4,646,592, 3-3-87, Cl. 81-57.300.

Jones, Michael A.: *See—*

Floyd, John T.; Huggett, Christopher D.; Jones, Michael A.; and Woods, John R. G., 4,672,330, Cl. 331-4.000.

Partus, Fred P.; and Jones, Michael A., 4,638,129, Cl. 200-43.220.

Jones, Michael D.: *See—*

Fayerman, Jeffrey T.; Jones, Michael D.; and Main, Nancy E., 4,666,846, Cl. 435-243.000.

Jones, Michael E. B., to Imperial Chemical Industries PLC. Process for the preparation of aromatic oligomers. 4,673,725, 6-16-87, Cl. 528-266.000.

Jones, Michael M.; Miller, Walter E., Jr.; and Mitchell, Robert R., to United States of America, Army. Missile referenced beamrider. 4,696,441, 9-29-87, Cl. 244-3.130.

Jones, Michael P.; and Hahn, Paul M. Collapsible boat. 4,702,193, 10-27-87, Cl. 114-354.000.

Jones, Neal K. Thin plastic corrector lenses for optical systems. 4,650,275, 3-17-87, Cl. 350-1.100.

Jones, Norman S., to Pneupac Limited. Resuscitator/ventilator. 4,682,591, 7-28-87, Cl. 128-204.250.

Jones, Othel L.: *See—*

Yun, Kyung W.; Jones, Othel L.; Long, Gerald M.; and Elson, John P., 4,685,489, Cl. 137-543.150.

Jones, Pamela K., to International Business Machines Corporation. Safe door latch deformation actuated interlock. 4,706,577, 11-17-87, Cl. 109-59.00T.

Jones, Patrick M.: *See—*

Wilson, Louis D.; Jones, Patrick M.; and Vrilakas, Mark, 4,685,333, Cl. 73-478.000.

Jones, Paul W.; Merry, Rodney J.; and Linstad, Gregory A., to Physio-Control Corporation. Connector for modular physiological instruments. 4,637,749, 1-20-87, Cl. 403-322.000.

Jones, Paul W.; and Bardue, Casey M., to Physio-Control Corporation. Medical instrument including electrodes adapted for right and left-handed use. 4,681,112, 7-21-87, Cl. 128-419.00D.

Jones, Ralph W. Pawl controlled reel extension. 4,638,959, 1-27-87, Cl. 242-107.40R.

Jones, Ralph W. Control of line wrapping on reel, by reel groove design. 4,678,135, 7-7-87, Cl. 242-117.000.

Jones, Ralph W. Pawl controlled reel extension. 4,711,409, 12-8-87, Cl. 242-107.40R.

Jones, Ralph W.: *See—*

Maskasky, Joe E.; and Jones, Ralph W., 4,680,256, Cl. 430-567.000.

Jones, Raymond T., to Eastman Kodak Company. Rapid-drying recording element for liquid ink marking. 4,649,064, 3-10-87, Cl. 427-256.000.

Jones, Richard. Hammer with stabilizer bar. 4,654,909, 4-7-87, Cl. 7-143.000.

Jones, Richard D., to UHR Corporation. Residential heating, cooling and energy management system. 4,645,908, 2-24-87, Cl. 219-378.000.

Jones, Richard D., to UHR Corporation. Heat exchange system with reversing receiver flow. 4,655,051, 4-7-87, Cl. 62-324.400.

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Jones, Richard D., to UHR Corporation. Welded contact safety technique. 4,698,978, 10-13-87, Cl. 62-160.000.

Jones, Richard E.: *See—*

Eigner, Otto; and Jones, Richard E., 4,675,586, Cl. 318-458.000.

Whitehouse, Martin H.; and Jones, Richard E., 4,644,813, Cl. 74-431.000.

Jones, Richard E., III: *See—*

Mauldin, Donald M.; and Jones, Richard E., III, 4,715,361, Cl. 128-52.000.

Jones, Richard H.: *See—*

Best, Michael J. A.; Jones, Richard H.; Hynes, Joseph H.; Pond, Richard J.; and Gordon, Colin R., 4,695,190, Cl. 405-169.000.

Jones, Richard J.: *See—*

Wojcik, David R.; Jones, Richard J.; and Aufiero, James M., 4,680,628, Cl. 358-111.000.

Jones, Rick O.; Price, Walter F., Jr.; Siemer, Glenn E.; and Ulrich, Michael H., to International Business Machines Corporation. Photocopier scanning apparatus and method for adjustment. 4,634,267, 1-6-87, Cl. 355-66.000.

Jones, Robert; Jones, Keith W.; and Baxter, William R. S., to Pandrol Limited. Measuring displacement between two relatively movable structures. 4,694,690, 9-22-87, Cl. 73-146.000.

Jones, Robert A.: *See—*

Ares, Roland A.; Jones, Robert A.; and Street, Norman E., 4,711,094, Cl. 62-90.000.

Jones, Robert C. Therapeutic thermal transfer device. 4,706,672, 11-17-87, Cl. 128-379.000.

Jones, Robert D. Beverage container. 4,690,294, 9-1-87, Cl. 220-90.200.

Jones, Robert E.: *See—*

Shawcross, Alfred L.; Stevens, Donn E.; and Jones, Robert E., 4,690,520, Cl. 350-517.000.

Jones, Robert E., Jr.; Lee, Rodney E.; and Yeh, Tsu-Hsing, to International Business Machines. Thin film magnetic transducer having center tapped winding. 4,713,711, 12-15-87, Cl. 360-123.000.

Jones, Robert H., III, to Durotech Corporation. Apparatus and method for the cryogenic treatment and heating of materials. 4,667,478, 5-26-87, Cl. 62-64.000.

Jones, Robert L. Resource recovery utility. 4,643,111, 2-17-87, Cl. 110-234.000.

Jones, Robert L., to NDT Instruments, Inc. Hand-held digital thickness gage. 4,715,008, 12-22-87, Cl. 364-563.000.

Jones, Robert L.: *See—*

Horsley, Richard R.; Jones, Robert L.; and Snow, Robert J., 4,688,588, Cl. 137-13.000.

Jones, Robert S., to Eastman Kodak Company. Method and apparatus for improving a multi-color electrophotographic image. 4,660,503, 4-28-87, Cl. 118-645.000.

Jones, Robin M. F.; DeLuca, Robert D.; and Panzera, Carlino, to Johnson & Johnson Dental Products Company. Crystalline alumina orthodontic bracket. 4,639,218, 1-27-87, Cl. 433-8.000.

Jones, Roger E.; and Pratt, Roland H., to International Standard Electric Corporation. Fiber optic sensor. 4,647,203, 3-3-87, Cl. 356-345.000.

Jones, Roger E.: *See—*

Extance, Philip; and Jones, Roger E., 4,665,363, Cl. 324-244.000.

Extance, Philip; Jones, Roger E.; and Martin, Stewart O., 4,692,703, Cl. 324-251.000.

Extance, Philip; and Jones, Roger E., 4,697,146, Cl. 324-244.000.

Pitt, Gilies D.; Extance, Philip; Neat, Rosamund C.; and Jones, Roger E., 4,668,085, Cl. 356-32.000.

Pitt, Gilles D.; Extance, Philip; and Jones, Roger E., 4,696,543, Cl. 350-96.230.

Pitt, Gillies D.; Batchelder, David N.; Jones, Roger E.; and Neat, Rosamund C., 4,637,071, Cl. 455-603.000.

Pitt, Gillies D.; Extance, Philip; and Jones, Roger E., 4,712,065, Cl. 324-244.000.

Jones, Rolin, Jr. Method of testing electronic automotive parts. 4,673,868, 6-16-87, Cl. 324-51.000.

Jones, Rollin G.; Kortegaard, Bert L.; and Jones, David F., to United States of America, Energy. Method and apparatus for controlling multiple motors. 4,689,541, 8-25-87, Cl. 318-696.000.

Jones, Ronald D.; and Cross, Joseph B., to Phillips Petroleum Company. Solid particle dispensing. 4,684,041, 8-4-87, Cl. 222-161.000.

Jones, Ronald E.; and Peterson, Royal D., to Continental Laser Corporation. Laser with bypass gas deflector. 4,694,462, 9-15-87, Cl. 372-61.000.

Jones, Ronald E.: *See—*

Jones, Janice L.; and Jones, Ronald E., 4,637,397, Cl. 128-419.00D.

Kapuscinski, Maria M.; and Jones, Ronald E., 4,699,723, Cl. 252-47.000.

Peterson, Royal D.; and Jones, Ronald E., 4,656,640, Cl. 372-87.000.

Jones, Ronald R., to National Communications Research Center, Inc. Apparatus and method for processing stereo signals for application to an AM stereo broadcasting unit. 4,679,239, 7-7-87, Cl. 381-16.000.

Jones, Samuel V., and Jones, Kenneth. Pinching deactivator for automobile electric switches. 4,704,504, 11-3-87, Cl. 200-43.180.

Jones, Stanley C., to Marathon Oil Company. Porous end plug disk for testing core samples. 4,643,019, 2-17-87, Cl. 73-38.000.

Jones, Stanley C., to Marathon Oil Company. Apparatus and method for automatic testing of core samples. 4,649,737, 3-17-87, Cl. 73-38.000.

Jones, Stanley C., to Marathon Oil Company. Apparatus and method for determining fluid viscosity and density. 4,660,413, 4-28-87, Cl. 73-54.000.

Jones, Stanley G., to Rizla Limited. Machine for making paper booklets. 4,648,862, 3-10-87, Cl. 493-346.000.

Jones, Stanley P., to Emhart Industries, Inc. Mould arrangement for a glassware forming machine. 4,657,573, 4-14-87, Cl. 65-265.000.

Jones, Stanley P.: *See—*

Foster, Thomas V.; Jones, Stanley P.; and Alderson, David L., 4,682,996, Cl. 65-25.100.

Jones, Stephen R.: *See—*

Oldham, Ronald C.; and Jones, Stephen R., 4,657,343, Cl. 350-96.230.

Jones, Steven P.; and Tilles, David J., to United States of America, Air Force. Computer controlled lead forming. 4,644,633, 2-24-87, Cl. 29-566.300.

Jones, Steven P., to United States of America, Air Force. Multi use gripper for industrial robot. 4,699,414, 10-13-87, Cl. 294-119.100.

Jones, Stuart D.; Tully, Wilfred R.; and Kennewell, Peter D., to Roussel Uclaf. 1,2,4-thiadiazines. 4,654,338, 3-31-87, Cl. 514-222.000.
Jones, Suzanne C.: *See—*
  Jochim, Michael M.; and Jones, Suzanne C., 4,678,746, Cl. 435-5.000.
Jones, Theodore; and Rudman, Christopher G., to Amgen. Biologically active peptides structurally related to regions within growth hormones. 4,699,897, 10-13-87, Cl. 514-4.000.
Jones, Theodore L., to RCA Corporation. Method of forming fiber optic cable termination. 4,640,725, 2-3-87, Cl. 156-85.000.
Jones, Theodore L., to RCA Corporation. Fiber optic cable termination and method for forming same. 4,699,462, 10-13-87, Cl. 350-96.230.
Jones, Thomas C.: *See—*
  Fischer, Herbert; Stritzke, Karl H.; Morlock, Roland; Jones, Thomas C.; and Donovan, Joseph C., 4,636,265, Cl. 148-6.15R.
Jones, Thomas E.; and Johnson, Raynor A., to American Antigravity Co., Inc. Air lifted and propelled vehicle. 4,643,268, 2-17-87, Cl. 180-116.000.
Jones, Thomas H.: *See—*
  MacDonald, Daniel J.; and Jones, Thomas H., 4,683,392, Cl. 310-105.000.
Jones, Thomas L. Athletic sock. 4,669,126, 6-2-87, Cl. 2-22.000.
Jones, Thomas M.; and Chastain, David M. Diagnostic circuit. 4,701,917, 10-20-87, Cl. 371-16.000.
Jones, Thomas M.: *See—*
  Bachman, Brett L.; Bernstein, David H.; Bratt, Richard G.; Clancy, Gerald F.; Gavrin, Edward S.; Gruner, Ronald H.; Jones, Thomas M.; Katz, Lawrence E.; Mundie, Craig J.; Pilat, John F.; Richmond, Michael S.; Schleimer, Stephen I.; Wallach, Steven J.; and Wallach, Walter A., Jr., 4,656,579, Cl. 364-200.000.
  Pilat, John F.; Jones, Thomas M.; Nealon, James T.; Davidian, Gary; and Bowden, Paul, 4,670,839, Cl. 364-200.000.
Jones, Thomas P., to Lion Laboratories Limited. Apparatus for gas analysis. 4,707,336, 11-17-87, Cl. 422-84.000.
Jones, Thomas P. H.: *See—*
  Pithouse, Kenneth B.; Jones, Thomas P. H.; Lowe, Frank J.; and Skipper, Richard S., 4,639,545, Cl. 174-36.000.
Jones, Thomas R.: *See—*
  Knudson, Milburn L. Jr.; and Jones, Thomas R., 4,664,342, Cl. 252-315.200.
Jones, Timothy A.: *See—*
  Snavely, Earl S., Jr.; and Jones, Timothy A., 4,649,032, Cl. 423-226.000.
Jones and Vining, Incorporated: *See—*
  Goguen, Peter J., 4,640,797, Cl. 252-301.360.
Jones, W. Dale. Mechanical unguided ballistic missile near surface fuzing switches. 4,675,480, 6-23-87, Cl. 200-61.530.
Jones, W. Kinzy: *See—*
  DeHaan, Abel; Jones, W. Kinzy; and Krug, Richard D., 4,649,937, Cl. 128-784.000.
Jones, Wallace R.; and Isaksen, Robert A., to Excello Specialty Company, The. Surface protector with expansible pocket. 4,696,848, 9-29-87, Cl. 428-80.000.
Jones, Warren C.: *See—*
  Dery, Ronald A.; and Jones, Warren C., 4,640,981, Cl. 174-88.00R.
  Dery, Ronald A.; and Jones, Warren C., 4,642,421, Cl. 174-88.00R.
  Dery, Ronald A.; Gentry, William G.; Jones, Warren C.; May, Clifton C., Jr.; and Wentink, Steven G., 4,659,872, Cl. 174-117.00A.
Jones, Warren W.: *See—*
  Lowther, Gary R.; Jones, Warren W.; and Udavchak, Donald L., 4,654,550, Cl. 310-59.000.
  Moore, William G.; Jones, Warren W.; and Larue, John C., 4,656,382, Cl. 310-270.000.
Jones, Wayne C.: *See—*
  Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., 4,652,115, Cl. 355-14.0TR.
  Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., 4,697,920, Cl. 355-14.0CH.
  Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireand, Anthony J., 4,699,079, Cl. 118-658.000.
  Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., 4,705,385, Cl. 355-4.000.
Jones, Wayne R., to John Fluke Mfg. Co., Inc. Test clip with grounding adaptor for cable connector. 4,714,436, 12-22-87, Cl. 439-497.000.
Jones, William A. Travelling barrel down hole pump having a gas relief probe. 4,673,338, 6-16-87, Cl. 417-435.000.
Jones, William C.: *See—*
  Jones, William C., Jr.; and Jones, William C., 4,706,685, Cl. 128-725.000.
Jones, William C., Jr.; and Jones, William C. Spirometer with double rolling seals. 4,706,685, 11-17-87, Cl. 128-725.000.
Jones, William D. Forgiving profile pipe gasket. 4,664,421, 5-12-87, Cl. 285-110.000.
Jones, William D.: *See—*
  Albright, Donald R.; Jones, William D.; and Nelson, Doran W., 4,667,148, Cl. 324-51.000.
Jones, William E.: *See—*
  Rugh, Clyde J.; King, John L., Jr.; Tuttle, Francis M.; and Jones, William E., 4,660,404, Cl. 72-446.000.
  Rugh, Clyde J.; King, John L., Jr.; Tuttle, Francis M.; and Jones, William E., 4,660,406, Cl. 72-448.000.
Jones, William G.: *See—*
  Pierson, Karl B.; Mooney, Thomas E.; and Jones, William G., 4,709,901, Cl. 251-58.000.
Jones, William J.; and Mendelson, Robert A., to Monsanto Company. Polyblends of styrene-maleic anhydride-methyl methacrylate terpolymers, acrylonitrile-butadiene-styrene polymers and polycarbonates. 4,663,389, 5-5-87, Cl. 525-67.000.
Jones, William R.; Heckenberg, Allan L.; and Jandik, Petr, to Millipore Corporation. Ion chromatography method and apparatus. 4,699,71 10-13-87, Cl. 210-659.000.
Jones, William R., Jr.: *See—*
  Dilbert, Meredith N.; Forseth, Glenn J.; Jones, William R., Jr.; and Divis, Richard T., 4,692,312, Cl. 422-151.000.
Jones, Winton D., Jr.: *See—*
  Schenttler, Richard A.; Jones, Winton D., Jr.; and Claxton, George P., 4,670,450, Cl. 514-341.000.
  Schnettler, Richard A.; Jones, Winton D., Jr.; and Claxton, George P., 4,698,353, Cl. 514-340.000.
Jong, Slosson B. Building material and manufacture thereof. 4,655,837, 4-7-87, Cl. 106-76.000.
Jongebreur, Ronald: *See—*
  van Engen, Pieter G.; Buschow, Kurt H. J.; and Jongebreur, Ronald, 4,650,290, Cl. 350-376.000.
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Jongepier, Abraham; and Kasperkovitz, Wolfdietrich G., to U.S. Philips Corporation. Double-balanced mixer circuit. 4,636,663, 1-13-87, Cl. 307-529.000.
Jongepier, Abraham, to U.S. Philips Corporation. Noise detector. 4,648,127, 3-3-87, Cl. 455-212.000.
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  Jongerius, Sebastiaan C. E., 4,694,715, Cl. 83-72.000.
Jongerius, Sebastiaan C. E., to Jongerius B.V. Slicing device for bread or the like. 4,694,715, 9-22-87, Cl. 83-72.000.
JongeVos, Hendrik, to Tektronix, Inc. Software/hardware integration control system. 4,672,532, 6-9-87, Cl. 364-200.000.
Jonker, Johan, to Elektrotechnisch Bureau Mockotte BV. Apparatus for developing photographs and photographic strips. 4,634,251, 1-6-87, Cl. 354-312.000.
Jonner, Wolf-Dieter: *See—*
  Leiber, Heinz; Jonner, Wolf-Dieter; and Czinczel, Armin, 4,647,115, Cl. 303-106.000.
Jonovic, John A.; Stengel, Bruce W.; and Mally, Timothy G., to Oscar Mayer Foods Corporation. Rotary volumetric piston dispenser with adjustable camming assembly, and rinsing device. 4,684,040, 8-4-87, Cl. 222-148.000.
Jons, Ebbe S.; Liborius, Erik; Veltman, Preston L.; and Vernenkar, Krishnakant N., to A/S Niro Atomizer. Method for treating by-products from flue gas. 4,666,694, 5-19-87, Cl. 423-555.000.
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  Olsson, Sven G.; and Jonson, Bjorn, 4,676,232, Cl. 128-28.000.
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Jonsson, Gunther: *See—*
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  Karlsson, Bjorn G.; and Jonsson, Ingvar, 4,701,698, Cl. 324-116.000.
Jonsson, Karl-Erik A. Debarking tool and arm combination. 4,709,73 12-1-87, Cl. 144-241.000.
Jonsson, Lars: *See—*
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Jonsson, Nils. Processor-controlled light screen wherein light beam carries coded signals. 4,650,990, 3-17-87, Cl. 250-221.000.
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Jonsson, Nils-Arne, to AB Essve Produkter. Fastening device for door or window frames. 4,655,656, 4-7-87, Cl. 411-337.000.
Jonsson, Nils G., to Craelius AB. Device in rock drilling machines. 4,637,477, 1-20-87, Cl. 173-149.000.
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Jonval, Pierre, to Legrand. Electrical connector socket suitable for use in explosive atomsphere. 4,659,160, 4-21-87, Cl. 339-111.000.
Joo, Grant K.: *See—*
  Gray, Reed A.; and Joo, Grant K., 4,692,186, Cl. 71-100.000.
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  Ueda, Kazuo; and Joo, Katsuhiro, 4,669,627, Cl. 220-94.00R.
Joosten, Douglas W. Tool set and method for opening and decoding locks. 4,667,494, 5-26-87, Cl. 70-394.000.
Joosten, Henricus C. M., to U.S. Philips Corporation. Method of manufacturing a plug. 4,715,119, 12-29-87, Cl. 29-858.000.

Joosten, Johannes J. M.: *See*—
Hartgring, Cornelius D.; and Joosten, Johannes J. M., 4,709 255, Cl. 357-23.500.

Joosten, Richard L.: *See*—
Rangwala, Badrudden K.; Rodocker, Frank A.; Pawloski, Curtis H.; and Joosten, Richard L., 4,683,701, Cl. 53-167.000.

Joppe, Werner: *See*—
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Jopson, Harriet: *See*—
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Lee, Kang I.; and Jopson, Harriet, 4,705,645, Cl. 252-500.000.

Jordan, Alfons, to Uni-Cardan Aktiengesellschaft. Control clutch with interacting viscous control unit and frictional clutch unit. 4,662,499, 5-5-87, Cl. 192-82.00T.

Jordan, Barry J., to Jordon Instruments (Derby) Limited. Fault detecting apparatus. 4,710,628, 12-1-87, Cl. 250-341.000.

Jordan, Bertram L.: *See*—
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Jordan, Chalmer; Connor, Lee; and Lybarger, Robert, to Saegertown Manufacturing Corporation. Spike forming method. 4,682,381, 7-28-87, Cl. 10-63.000.

Jordan, Charles L.: *See*—
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Jordan, Gary V.: *See*—
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Jordan, Harold E.: *See*—
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Jordan, Janice C.: *See*—
Huldin, Donald H.; and Jordan, Janice C., 4,674,635, Cl. 206-555.000.

Jordan, Lamar. Hook strip for removable wall panels. 4,704,835, 11-10-87, Cl. 52-486.000.

Jordan, Larry B. Hydropneumatic cable tensioner. 4,638,978, 1-27-87, Cl. 254-228.000.

Jordan, Manfred: *See*—
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Jordan, Mark T.; and Ferragamo, Mark. Ladder roof brace. 4,678,061, 7-7-87, Cl. 182-206.000.

Jordan, Marvin F.: *See*—
Meredith, Michael D.; Bentvelzen, Joseph M.; and Jordan, Marvin F., 4,684,442, Cl. 162-242.000.

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ordan, Robert D. Fuel injector system. 4,714,066, 12-22-87, Cl. 123-447.000.

ordan, Robert E.: *See*—
Mitra, Gautam; and Jordan, Robert E., 4,689,323, Cl. 514-56.000.

ordan, Rodney B. Nail reserve indicator. 4,715,522, 12-29-87, Cl. 227-156.000.

ordan, William D.; and Clemens, Donald L., to Thermalloy Incorporated. Alignment apparatus for electronic device package. 4,709,302, 11-24-87, Cl. 361-388.000.

ordan, Willie W.: *See*—
McEachern, Richard D.; Jordan, Willie W.; Gebheim, Gerald C.; and Robinson, Joe M., 4,714,196, Cl. 239-62.000.

orde, James E. Chain saw sharpener. 4,677,881, 7-7-87, Cl. 76-25.00A.

ordens, Ernst-Gunter, to Lemforder Metallwaren AG. Resilient bearing with a hydraulic damper. 4,645,188, 2-24-87, Cl. 267-140.100.

ordens, Ernst-Gunter, to Lemforder Metallwaren AG. Hydraulic vibration damper for resilient bearings in motor vehicles. 4,653,734, 3-31-87, Cl. 267-8.00R.

order, Kurt: *See*—
Fottinger, Walter; and Jorder, Kurt, 4,709,490, Cl. 36-44.000.

ordi, Urs M., to Altop S.A. Watch mounted on a clip. 4,705,408, 11-10-87, Cl. 368-278.000.

rdon, Donald: *See*—
Whitehead, David; Duell, Graham; and Jordon, Donald, 4,649,907, Cl. 128-84.00C.

rdon Instruments (Derby) Limited: *See*—
Jordan, Barry J., 4,710,628, Cl. 250-341.000.

rdy, George J.; and Mosley, Joseph M., to International Business Machines Corporation. Random access memory employing unclamped complementary transistor switch (CTS) memory cells and utilizing word to drain line diode shunts. 4,635,228, 1-6-87, Cl. 365-154.000.

Jordy, George J.; and Mosley, Joseph M., to International Business Machines Corporation. Random access memory. 4,675,846, 6-23-87, Cl. 365-174.000.

Jordy, George J.; Mooney, Donald B.; and Mosley, Joseph M., to International Business Machines Corporation. Read complete test technique for memory arrays. 4,689,772, 8-25-87, Cl. 365-201.000.

Jorgen Mosbaek Johannessen ApS: *See*—
Johannessen, Jorgen M., 4,679,595, Cl. 137-813.000.

Jorgens, Reinhard; Faltermeier, Bernd; and Trautwein, Franz, to Carl-Zeiss-Stiftung, Heidenheim/Brenz. Motorized focus drive for a microscope. 4,695,137, 9-22-87, Cl. 350-521.000.

Jorgensen, Allen R.: *See*—
Leanna, Dale D.; Wittkopf, Eugene R.; and Jorgensen, Allen R., 4,704,296, Cl. 427-9.000.

Jorgensen, Betty S., to United States of America, Energy. Apparatus for determining the filling pressure of a plurality of microballoons. 4,650,328, 3-17-87, Cl. 356-244.000.

Jorgensen, Diane V.; Kennedy, Clinton R.; and Wong, Stephen S., to Mobil Oil Corporation. Process for cyclic dewaxing/regeneration of hydrocarbon feedstocks. 4,714,537, 12-22-87, Cl. 208-111.000.

Jorgensen, Geert, to Danfoss A/S. PTC starter for asynchronous motor. 4,689,595, 8-25-87, Cl. 337-107.000.

Jorgensen, George N.; McGoldrick, Gilbert A.; and Slicer, Allan E., to Square D Company. Electrical distribution system with an improved housing. 4,673,229, 6-16-87, Cl. 439-207.000.

Jorgensen, Henry A.: *See*—
Reeves, Robert H., Jr.; Green, Donald H.; Birdwell, Jimmy A.; and Jorgensen, Henry A., 4,703,780, Cl. 141-1.000.

Jorgensen, Jens L.; Haskett, Thomas E.; and Rueb, John T., to Minnesota Mining and Manufacturing Company. Pressure-sensitive adhesive having broad useful temperature range. 4,699,842, 10-13-87, Cl. 428-343.000.

Jorgensen, Jorgen A.; and Nygren, Donald W., to Northland Aluminum Products, Inc. Apparatus for brewing coffee in microwave ovens. 4,642,443, 2-10-87, Cl. 219-10.55E.

Jorgensen, Michael L. S., to Jydsk Varmekedelfabrik A/S. Stoking plant for fuel in whole bales. 4,637,327, 1-20-87, Cl. 110-289.000.

Jorgensen, Ove: *See*—
McCulloch, Robert M.; and Jorgensen, Ove, 4,689,968, Cl. 62-225.000.

Jorgensen, Peter B. Precision vise with independently moveable jaws. 4,685,663, 8-11-87, Cl. 269-244.000.

Jorgensen, Peter O. Frequency encoded logic devices. 4,706,299, 11-10-87, Cl. 455-608.000.

Jorgensen, Robert A. Collapsible table. 4,643,103, 2-17-87, Cl. 108-36.000.

Jorgensen, Robert J., to Union Carbide Corporation. Process for the production of a sticky polymer. 4,710,538, 12-1-87, Cl. 525-53.000.

Jorgensen, Robert J.: *See*—
Wagner, Burkhard E.; Karol, Frederick J.; Goeke, George L.; Jorgensen, Robert J.; and Friis, Nils, 4,684,703, Cl. 526-88.000.

Jorgensen, Robert W.; and Nowak, Michael R., to Harvey Hubbell Incorporated. Non-metallic liquid-tight conduit engaging connector. 4,637,639, 1-20-87, Cl. 285-249.000.

Jorgensen, Robert W.; Lewis, Thomas E.; and Kesler, Gregory J., to Harvey Hubbell Incorporated. Eccentric knockouts for metal boxes. 4,640,433, 2-3-87, Cl. 220-266.000.

Jorgensen, Walter E.; and Linquist, Robert L. Flow control valve. 4,694 848, 9-22-87, Cl. 137-114.000.

Jorgenson, Michael W.: *See*—
Bailey, Frederick E., Jr.; Jorgenson, Michael W.; and Whitman, Robert D., 4,686,240, Cl. 521-103.000.
Kilgour, John A.; and Jorgenson, Michael W., 4,690,955, Cl. 521-112.000.

Jorgensson, Einar: *See*—
Hansson, Stig; and Jorgensson, Einar, 4,671,410, Cl. 206-438.000.

Jorkasky, Richard J., II: *See*—
Uebele, Curtis E.; Ball, Lawrence E.; Jorkasky, Richard J., II; and Wardlow, Eddie, Jr., 4,692,502, Cl. 526-193.000.

Jorke, Helmut: *See*—
Dambkes, Heinrich; Herzog, Hans-J.; and Jorke, Helmut, 4,710,788, Cl. 357-22.000.

Jorna, Fransesco M.: *See*—
Schaaf, David E.; and Jorna, Fransesco M., 4,686,914, Cl. 111-73.000.

Jornhagen, Lennart, to Forsheda AB. Device for removing dirt from a surface, especially a brush sealing device. 4,696,480, 9-29-87, Cl. 277-53.000.

Jorritsma, Johannes N. Method and apparatus for determining liquid flow rates. 4,669,308, 6-2-87, Cl. 73-223.000.

Jortikka, Markku J.; Forss, Eino H.; Heino, Harry A.; Lajunen, Erkki A.; Putkonen, Erkki E.; Julkunen, Toivo E.; and Laurio, Timo. Method and apparatus for pneumatic feeding or additives into converters. 4,676,826, 6-30-87, Cl. 75-51.100.

Jorvig, Jeffrey R.: *See*—
Raghunathan, Kuppuswamy; Jorvig, Jeffrey R.; and Smith, Stephen L., 4,689,504, Cl. 307-449.000.

Jose, David L.: *See*—
Dischert, Robert A.; Moles, Warren H.; Jose, David L.; and Walter, James M., 4,672,443, Cl. 358-140.000.

Jose Guiblain, Helene Christiane, Cecile Helene Laurence Lacour, Laurent Pierre Rolland Lacour, heirs: *See*—
Platel, Alain Y.; Bourgery, Guy R.; and Lacour, Alain, deceased, 4,639,452, Cl. 514-252.000.

Jose, Horst-Udo: *See*—
  Brenner, Rolf; Jose, Horst-Udo; Jung, Gerd; and Koder, Robert, 4,650,680, Cl. 429-129.000.
Josef Gartner & Co.: *See*—
  Papak, Viktor, 4,638,853, Cl. 165-50.000.
  Wolf, Walter; and Schulz, Harald, 4,649,685, Cl. 52-398.000.
Josef, Michael J., to Albany International Corp. Paper machine clothing. 4,633,596, 1-6-87, Cl. 34-116.000.
Josef Uhlmann Maschinenfabrik GmbH & Co. KG: *See*—
  Rittinger, Herbert; Gertitschke, Detlev H.; Rapp, Karlheinz; and Eberle, Bernd, 4,693,057, Cl. 53-539.000.
Josefiak, Christoph; and Wechs, Friedrich, to AKZO NV. Porous shaped bodies, and method and apparatus for the production thereof. 4,666,607, 5-19-87, Cl. 210-640.000.
Josefowicz, Jack Y., to Atlantic Richfield Company. Reducible metal oxide compositions containing zirconium oxide, yttrium oxide and an alkali metal component. 4,656,155, 4-7-87, Cl. 502-324.000.
Josenhans, Frederick G. Carrying handle for two bottles having built in carrying lips. 4,678,221, 7-7-87, Cl. 294-170.000.
Joseph Adams Technical Arts Ltd.: *See*—
  Adams, Joseph S., 4,665,868, Cl. 123-46.0SC.
Joseph, Brian J., to Eastman Kodak Company. Electrophotographic development apparatus with an improved ribbon blender. 4,707,107, 11-17-87, Cl. 355-3.0DD.
Joseph, Claude, to Societe Anonyme Kerma. Ski pole handle. 4,645,235, 2-24-87, Cl. 280-821.000.
Joseph, Daniel, Jr.; and Archuletta, Phil T. Cattle guard. 4,655,435, 4-7-87, Cl. 256-17.000.
Joseph, Daniel D., to University of Minnesota, Regents of the. Spinning rod interfacial tensiometer. 4,644,782, 2-24-87, Cl. 73-64.400.
Joseph, Douglas: *See*—
  Michels, Dennis; Howe, Geoff; and Joseph, Douglas, 4,712,250, Cl. 455-20.000.
Joseph E. Seagram & Sons, Inc.: *See*—
  Boucher, Armand R., 4,643,083, Cl. 99-275.000.
Joseph Galkin Corporation: *See*—
  Block, Charles, 4,682,556, Cl. 112-265.100.
Joseph Gartner & Co.: *See*—
  Schulz, Harald, 4,642,870, Cl. 29-509.000.
Joseph, Gerald; and Berta, Joseph. Stabilizer device for automobile suspension systems. 4,709,908, 12-1-87, Cl. 267-140.400.
Joseph, James R.; Wesdock, James F.; Lerch, Allen; Chollock, Ronald; Waugaman, John; Lindberg, Glenn; Wymer, James R.; and Brennen, Brad, to Brockway, Inc. System for automatically inspecting transparent containers for sidewall and dimensional defects. 4,655,349, 4-7-87, Cl. 209-524.000.
Joseph, John. Basketball retrieval apparatus. 4,667,957, 5-26-87, Cl. 273-1.50A.
Joseph Kieninger Uhrenfabrik GmbH: *See*—
  Hepfer, Rolf; and Kieninger, Rudolf, 4,641,975, Cl. 368-124.000.
Joseph, Louis H., to Dorner Mfg. Corp. Drive mechanism for a live roller conveyor. 4,685,556, 8-11-87, Cl. 198-787.000.
Joseph, Philippe, to S.A.M.M - Societe d'Applications des Machines Motrices. Ground clearance corrector for a suspension element of a heavy vehicle. 4,700,969, 10-20-87, Cl. 280-705.000.
Joseph, Philippe, to S.A.M.M.-Societe d'Applications des Machines Motrices. Suspension element for a heavy vehicle. 4,700,970, 10-20-87, Cl. 280-705.000.
Joseph Pollak Corporation: *See*—
  Beck, Willi K.; and Strange, Andrew, 4,649,238, Cl. 200-16.00C.
  Beck, Willi K.; Danielson, Lincoln V.; and Strange, Andrew, 4,684,769, Cl. 200-61.890.
  Beck, Willi K.; and Danielson, Lincoln V., 4,698,466, Cl. 200-61.780.
Joseph, Ponnattu K.: *See*—
  Wisdom, Lawrence W.; and Joseph, Ponnattu K., 4,648,296, Cl. 83-13.000.
Joseph Rhodes Limited: *See*—
  Ridgway, Charles L.; and Coultish, John R., 4,658,624, Cl. 72-316.000.
Jos. Schneider Optische Werke Kreuznach GmbH & Co. KG: *See*—
  Schitthof, Hiltrud, 4,695,136, Cl. 350-472.000.
  Schroder, Wolfgang, 4,645,314, Cl. 350-504.000.
Joseph, Shalom: *See*—
  Zor, Uriel; and Joseph, Shalom, 4,670,426, Cl. 514-171.000.
Joseph Vogele AG: *See*—
  Saam, Werner, 4,712,649, Cl. 184-7.400.
Joseph, Werner: *See*—
  Schittenhelm, Hans-Joachim; and Joseph, Werner, 4,659,586, Cl. 427-27.000.
  Schittenhelm, Hans-Joachim; Joseph, Werner; and Krist, Otto, 4,689,271, Cl. 428-446.000.
  Schittenhelm, Hans-Joachim; Joseph, Werner; and Trogel, Gerhard, 4,713,530, Cl. 219-543.000.
Joseph Zimmermann: *See*—
  Gilljam, Hans N.; Chardon, Manfred; Gebald, Gregor; and Illig, Heinz-Peter, 4,702,433, Cl. 242-118.100.
Josephs, Mark A., to North American Philips Consumer Electronics Corp. Getter assembly with diffusion directing structure. 4,713,578, 12-15-87, Cl. 313-481.000.
Josephson, Elliot. DC-AC inverter with overload driving capability. 4,706,177, 11-10-87, Cl. 363-24.000.
Josephson, Lee, to Advanced Magnetics, Inc. Magnetic particles for use in separations. 4,672,040, 6-9-87, Cl. 436-526.000.
Josephson, Lee: *See*—
  Chagnon, Mark S.; Groman, Ernest V.; Josephson, Lee; and Whitehead, Roy A., 4,695,393, Cl. 252-62.540.
  Whitehead, Roy A.; Chagnon, Mark S.; Groman, Ernest V.; and Josephson, Lee, 4,695,392, Cl. 252-62.540.
  Whitehead, Roy A.; Chagnon, Mark S.; Groman, Ernest V.; and Josephson, Lee, 4,698,302, Cl. 435-94.000.
Josey, Alden D., to Du Pont de Nemours, E. I., and Company. Process for the nucleophilic substitution of unactivated aromatic and heteroaromatic substrates. 4,683,091, 7-28-87, Cl. 260-543.00R.
Joshi, Ashok V., to Ceramatec, Inc. Leak detector. 4,674,321, 6-23-87, Cl. 73-40.700.
Joshi, Bhagirath S. Computer software security system. 4,688,169, 8-18-87, Cl. 364-200.000.
Joshi, Dilip K.: *See*—
  Bailey, Richard B.; Joshi, Dilip K.; Michaels, Stephen L.; and Wisdom, Richard A., 4,698,303, Cl. 435-139.000.
Joshi, Rajiv V.: *See*—
  Meyerson, Bernard S.; Joshi, Rajiv V.; Rosenberg, Robert; and Patel, Vishnubhai V., 4,647,494, Cl. 428-216.000.
Joshi, Sunil P.; and Iyer, Venkatraman, to Advanced Micro Devices, Inc. CRC calculation machine for separate calculation of checkbits for the header packet and data packet. 4,712,215, 12-8-87, Cl. 371-37.000.
Joshita, Yutaka: *See*—
  Yoshida, Mitsuo; Mizuno, Yoshikuni; Shimizu, Natsue; Otsuka, Mieko; Dobutsu, Masakatsu; Furukawa, Yuusuke; and Joshita, Yutaka, 4,690,949, Cl. 514-561.000.
Joshua, Ayal. Sound panning apparatus. 4,648,116, 3-3-87, Cl. 381-18.000.
Joshua, Henry: *See*—
  Miller, Douglas K.; Joshua, Henry; and Sadowski, Sharon J., 4,704,400, Cl. 514-454.000.
  Miller, Douglas K.; and Joshua, Henry, 4,714,711, Cl. 514-464.000.
Joslin, Paul C.: *See*—
  Etherington, Harry J. C.; Joslin, Paul C.; and Dunkley, Rowland A. G., 4,680,801, Cl. 382-3.000.
  Etherington, Harry J. C.; Joslin, Paul C.; Carr, David E.; and Simpson-Davis, Raymond, 4,707,573, Cl. 178-18.000.
Joslyn Corporation: *See*—
  Kane, Hugh; and Landow, Walt, 4,663,502, Cl. 200-5.00R.
Josquin, Wilhelmus J. M. J.: *See*—
  Lohstroh, Jan; and Josquin, Wilhelmus J. M. J., 4,680,619, Cl. 357-86.000.
Joss, Hans: *See*—
  Dvorsky, Stephan; Radivojevich, Franz; and Joss, Hans, 4,689,231, Cl. 424-455.000.
Joss, Michael S.; and McDowell, David E., to Bissell Inc. Stick vacuum cleaner. 4,644,605, 2-24-87, Cl. 15-325.000.
Jossens, Lawrence W.: *See*—
  Jacobson, Robert L.; and Jossens, Lawrence W., 4,648,961, Cl. 208-138.000.
  Jacobson, Robert L.; and Jossens, Lawrence W., 4,650,565, Cl. 208-138.000.
Josserand, Joseph: *See*—
  Schneider, Rudolf; and Josserand, Joseph, 4,652,716, Cl. 219-69.00M.
Jost, Alfred: *See*—
  Heinemann, Horst D.; and Jost, Alfred, 4,691,482, Cl. 52-3.000.
Jost, Ernest M.; and Santala, Timo J., to Chemet Corporation. Method of making electrical contacts. 4,700,475, 10-20-87, Cl. 29-874.000.
Jost, Frantisek: *See*—
  Pierr, Robert; Ritterbex, Horst; Jost, Frantisek; and Rommerskirchen, Hans J., 4,668,438, Cl. 260-400.000.
Jost, Jochen; and Handschke, Detlef, to Filmosto-Projektion Johannes Jost GmbH & Co. Method of framing slides. 4,662,960, 5-5-87, Cl. 156-108.000.
Jost, Leonora. Transdermal and transmucosal vortexed foam devices and the method of making. 4,649,075, 3-10-87, Cl. 428-305.500.
Jost, Manfred; Knoke, Jurgen; Yoshida, Zenji; Ohta, Nobaro; and Nakanishi, Terumo, to Carl Freudenberg, Firma. Iron-on interlining composite of knit layer and nonwoven layer of similar structure. 4,696,850, 9-29-87, Cl. 428-197.000.
Jost, Max; Iqbal, Abul; and Rochat, Alain C., to Ciba-Geigy Corporation. Compositions pigmented with N-substituted 1,4-diketopyrrolo-[3,4-c]-pyrroles. 4,666,455, 5-19-87, Cl. 8-506.000.
Jost, Ralph, to Hobas Engineering & Durotec AG. Apparatus for forming a reinforcing band on a sectional sealing liner. 4,642,156, 2-10-87, Cl. 156-425.000.
Jost, Robert M.: *See*—
  Malone, Gilbert R.; Skursha, Susan K.; and Jost, Robert M., 4,710,474, Cl. 436-60.000.
Jost, Steve R.; and Prentice, John S., to Harris Corporation. Direct coupled switching power supply with GTO SCR switching element. 4,675,798, 6-23-87, Cl. 363-54.000.
Jostens Learning Systems, Inc.: *See*—
  Raymond, William J.; Morgan, Robert L.; and Miller, Ricky L., 4,639,877, Cl. 364-513.500.
  Raymond, William J.; Morgan, Robert L.; and Miller, Ricky L., 4,675,840, Cl. 364-513.500.
Jotikasthira, Charamporn: *See*—
  Holsinger, Jerry L.; Jotikasthira, Charamporn; and Pahlavan, Kaveh, 4,660,213, Cl. 375-39.000.
Joto Chemical Co. Ltd: *See*—
  Suehisa, Shiro; and Kajiwara, Hideki, 4,657,400, Cl. 366-144.000.

Jouade, Pierre: *See*—

Ray, Jean; Gregoire, Daniel; and Jouade, Pierre, 4,647,023, Cl. 267-8.00R.

Jouan, Antoine: *See*—

Boen, Roger; Jouan, Antoine; Delage, Daniel; and Reboux, Jean, 4,660,212, Cl. 373-156.000.

Jouanin, Pierre. Wooden modular furniture. 4,709,640, 12-1-87, Cl. 108-91.000.

Jouanneau, Jean-Francois: *See*—

Herve, Jean-Luc; Jouanneau, Jean-Francois; Kristensen, Ivar G.; and Haugen, Finn, 4,648,419, Cl. 137-245.500.

Jouanny, Robert, to Jeumont-Schneider Corporation. Precalibrated element for securing and locking semiconductors and heat sinks arranged in alternating rows. 4,636,917, 1-13-87, Cl. 361-388.000.

Jouanny, Robert, to Jeumont-Schneider Corporation. Hermetic passage for an enclosure, especially a housing for semiconductors. 4,668,037, 5-26-87, Cl. 339-94.00A.

Joubert, Daniel, to Rhone-Poulenc Chimie de Base. Rapidly hexahydrated sodium tripolyphosphate detergent compositions. 4,664,838, 5-12-87, Cl. 252-135.000.

Joubert, Jean-Claude: *See*—

Gaud, Pierre; and Joubert, Jean-Claude, 4,671,885, Cl. 252-62.590.

Joubert, Philippe, to Uranium Pechiney. Process for the purification of uraniferous and/or molybendiferous amino organic solutions which contain zirconium and/or hafnium among other impurities. 4,649,030, 3-10-87, Cl. 423-9.000.

Joubert, Philippe, to Uranium Pechiney. Process for the selective separation of uranium, zirconium and/or hafnium and/or molybdenum from a carbonated aqueous solution containing same. 4,675,166, 6-23-87, Cl. 423-11.000.

Joubert, Philippe: *See*—

Bachelard, Roland; and Joubert, Philippe, 4,687,601, Cl. 252-638.000.

Joule' Inc.: *See*—

Madda, Frank J., 4,641,989, Cl. 403-302.000.

Jouquey, Alain; Salmon, Jean; Mouren, Michel; and Touyer, Gaetan, to Roussel Uclaf. Novel radioactive estradienes labelled with iodine. 4,639,336, 1-27-87, Cl. 260-397.500.

Jouquey, Alain; Veltz, Jean-Noel; Salmon, Jean; and Mouren, Michel, to Roussel Uclaf. Novel radioactive estradienes. 4,661,295, 4-28-87, Cl. 260-397.450.

Jouquey, Alain; Philibert, Daniel; Moguilewsky, Martine; and Veltz, Jean-Noel, to Roussel Uclaf. Novel radioactive steroids. 4,664,850, 5-12-87, Cl. 260-397.450.

Jour, Jean-Marc; and Peytavin, Pierre, to Vallourec S.A. Process for controlling a rolling mill having oblique rolls and a rolling mill for carrying out this process. 4,660,398, 4-28-87, Cl. 72-100.000.

Jourdain, Gerard E. A.; and Soligny, Marcel R., to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation (S.N.E.C.M.A.). Ring structure and compressor blow-off arrangement comprising said ring. 4,674,951, 6-23-87, Cl. 415-145.000.

Jourdain, Gerard E. A.: *See*—

Bouiller, Jean G.; and Jourdain, Gerard E. A., 4,679,982, Cl. 415-145.000.

Jourdan, Luc: *See*—

Lerouge, Bernard; and Jourdan, Luc, 4,668,872, Cl. 290-40.00R.

Jourdan, Pierre: *See*—

Perin, Robert; Jourdan, Pierre; and Pauly, Bernard, 4,637,573, Cl. 244-54.000.

Journey Electronics Corp.: *See*—

Edwards, Neil K.; and Gorden, Michael W., 4,704,603, Cl. 340-674.000.

Joutsimo, Matteus: *See*—

Alvila, Leila; Krause, Outi; Pakkanen, Tapani; and Joutsimo, Matteus, 4,652,539, Cl. 502-74.000.

Joutsjoki, Jukka, to Oy Wartsila Ab. Deflection control in a roll. 4,663,809, 5-12-87, Cl. 29-116.0AD.

Jova Enterprises, Inc.: *See*—

Gerling, John E.; and Ren, Ji T., 4,714,811, Cl. 219-10.55F.

Jovanovic, Dragomir. Cooking apparatus using steam injection at atmospheric pressure. 4,655,192, 4-7-87, Cl. 126-20.000.

Jove, Stephen A.; and Klaassen, Klaas B., to International Business Machines Corporation. Amplification of signals produced by a magnetic sensor. 4,706,138, 11-10-87, Cl. 360-67.000.

Jovell, Robert J.: *See*—

Conway de Macario, Everly; Jovell, Robert J.; and Macario, Alberto J. L., 4,682,890, Cl. 356-244.000.

Conway de Macario, Everly; Jovell, Robert J.; and Macario, Alberto J. L., 4,682,891, Cl. 356-244.000.

Jow, Taiguang R.: *See*—

Shacklette, Lawrence W.; Jow, Taiguang R.; Toth, James E.; and Maxfield, MacRae, 4,668,596, Cl. 429-194.000.

Joy, Ira L.; Arstikaitis, Arunas A.; and Troulias, James R., to Combustion Engineering, Inc. Cap for insulator support housing. 4,700,014, 10-13-87, Cl. 174-31.00R.

Joy Manufacturing Company: *See*—

Babbitt, Brett A.; and Le, Tri C., 4,650,226, Cl. 285-348.000.

Densmore, Neal W., 4,667,813, Cl. 198-846.000.

Haynes, Charles W.; and Gault, Frank W., 4,648,292, Cl. 81-57.160.

Hunjan, Harjit S.; and Jones, Daryl P., 4,648,794, Cl. 415-170.00B.

Koshy, Philip, 4,647,749, Cl. 219-76.140.

Le, Tri C.; and Hollister, F. Harold, 4,650,225, Cl. 285-348.000.

Meyer, Danny S.; and Shelton, William S., 4,658,848, Cl. 137-72.000.

Sadler, David R., 4,651,970, Cl. 251-63.600.

Shelton, William S., 4,682,757, Cl. 251-77.000.

Wechner, Edward, 4,650,254, Cl. 299-91.000.

Wechner, Edward, 4,655,507, Cl. 299-33.000.

Williams, John B., Jr., 4,643,395, Cl. 251-172.000.

Wixey, Barry D., 4,667,812, Cl. 198-821.000.

Joy of Painting, The: *See*—

Ross, Robert N.; and Lippert, Roy O., 4,655,372, Cl. 222-391.000.

Ross, Robert N., 4,703,910, Cl. 248-463.000.

Joy, Richard C.; Kemlage, Bernard M.; and Mauer, John L., IV, to International Business Machines Corporation. Isolation for high density integrated circuits. 4,688,069, 8-18-87, Cl. 357-34.000.

Joy, Richard C.; and Batra, Tarsaim L., to American Microsystems, Inc. Method of making tri-well CMOS by self-aligned process. 4,697,332, 10-6-87, Cl. 437-29.000.

Joy, Stanley E. Hand-held apparatus and method for loosening, aerating and fertilizing soil plant roots. 4,682,550, 7-28-87, Cl. 111-7.100.

Joyal Products, Inc.: *See*—

Riordan, Edward D., 4,650,948, Cl. 219-56.100.

Riordan, Edward D.; and Warner, Allan, 4,687,898, Cl. 219-56.220.

Warner, Samuel, 4,687,900, Cl. 219-111.000.

Joyama, Norio: *See*—

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Joyashiki, Hisashi; Iwasawa, Minoru; Oohigashi, Masakazu; and Terai, Masao, to Sunstar Kabushiki Kaisha. Electric motor driven toothbrush. 4,710,995, 12-8-87, Cl. 15-22.00R.

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Fenwick, Jay G., 4,693,383, Cl. 211-192.000.

Reid, Iain K.; Staite, Eric; Richmond, Doug; and Rumbelow, George, 4,637,667, Cl. 312-217.000.

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Bargett, Charley B.; Osgood, Roderic L.; Davis, Joseph L.; and Joyce, Richard J., 4,695,794, Cl. 324-158.00R.

Joyce, Robert H.: *See*—

Hardy, Steven; and Joyce, Robert H., 4,648,044, Cl. 364-513.000.

Joyce, Stephen A., to Advanced Robotic Technology, Inc. Absolute position mouse. 4,686,329, 8-11-87, Cl. 178-18.000.

Joyce, Terrance F.: *See*—

Lamb, Patrick R. J.; Joyce, Terrance F.; and Scouse, Bernard R., 4,662,187, Cl. 62-274.000.

Joyce, Thomas F.; and Kelly, Richard P., to Honeywell Information Systems Inc. Control store memory read error resiliency method and apparatus. 4,641,305, 2-3-87, Cl. 371-12.000.

Joyce, Thomas F.: *See*—

Keeley, James W.; and Joyce, Thomas F., 4,695,943, Cl. 364-200.000.

Kelly, Richard P.; and Joyce, Thomas F., 4,670,835, Cl. 364-200.000.

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Chang, Hou-min; Joyce, Thomas W.; and Kirk, Thomas K., 4,655,926, Cl. 210-611.000.

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Joyner, Auvin H. Funnel stock/sauce separator. 4,640,185, 2-3-87, Cl. 99-495.000.

Joyner, Kenneth E., Jr.: *See*—

Whitten, Gilbert Y., Jr.; Joyner, Kenneth E., Jr.; and Boren, Benjamin E., 4,691,868, Cl. 241-24.000.

Joyner, William H., Jr.: *See*—

Darringer, John A.; and Joyner, William H., Jr., 4,703,435, Cl. 364-489.000.

Joytronix, Inc.: *See*—

Pasternak, Eliezer, 4,670,271, Cl. 426-90.000.

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Jozefczak, Thadius F., to General Motors Corporation. Wind deflector for vehicle side window. 4,700,980, 10-20-87, Cl. 296-1.00S.

Jozsa, Ferencz: *See*—

Bajusz, Sandor; Szell nee Hasenohrl, Erzsbet; Bagdy, Daniel; Barabas, Eva; Dioszegi, Mariann; Fittler, Zsuzsa; Jozsa, Ferencz; Horvath, Gyula; and Tomori nee Jozst, Eva, 4,703,036, Cl. 514-18.000.

JRB Company, Inc.: *See*—

Baird, James R.; and Kabay, Steve, 4,708,579, Cl. 414-723.000.

Jse, Lin J. Pile construction method for improving bearing power. 4,701,078, 10-20-87, Cl. 405-238.000.

JTG of Nashville, Inc.: *See*—

Sanders, Sam, 4,706,536, Cl. 84-1.010.

Ju, Fred: *See*—

Kay, Robert E.; Chan, Hakchill; Ju, Fred; and Bray, Burton A., 4,648,917, Cl. 148-175.000.

Kay, Robert E.; Chan, Hakchill; Ju, Fred; and Bray, Burton A., 4,655,848, Cl. 148-1.500.

Ju, Shiaw: *See*—

Cozewith, Charles; Ju, Shiaw; and Ver Strate, Gary W., 4,716,207, Cl. 526-169.200.

Juarre, Phillip R., and Tegg, Duane T., to Satellite Industries, Inc. Urinal for use with a portable toilet structure. 4,670,918, 6-9-87, Cl 4-463.000.

Juarre, Phillip R.; Wagner, Frederic M.; and Wildgen, Leo F., to Satellite Industries, Inc. Building wall panel and door unit. 4,689,917, 9-1-87, Cl 49-380.000.

Juan, Alain, to E T A S.A. Fabriques d'Ebauches. Process for assembling and connecting integrated circuits to circuit units and apparatus for carrying out the process. 4,672,742, 6-16-87, Cl 29-840.000.

Juan, Cheng W. Apparatus for assisting in bowel evacuation. 4,670,920, 6-9-87, Cl 4-661.000.

Juanarena, Douglas B., to Pressure Systems Incorporated. Digital pressure transducer and corrections circuitry system. 4,644,482, 2-17-87, Cl 364-558.000.

Juarez-Salinas, Hector; and Ott, Gary S., to Bio-Rad Laboratories, Inc. Process for binding IgG to protein A. 4,704,366, 11-3-87, Cl 436-501.000.

Juarros, Richard D.: *See*—

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Dishner, Bryan W.; Juarros, Richard D.; and Dhyanchand, P. John, 4,695,776, Cl 318-14.000.

Jubinski, Paul, to Western Geophysical Company of America. Optical goniometer containing immiscible fluids having different refractive indices. 4,647,767, 3-3-87, Cl 250-227.000.

Jubinski, Paul, to Western Geophysical Company of America. Means for maintaining a fixed relative orientation of two sensors. 4,692,907, 9-8-87, Cl 367-20.000.

Jucha, Rhett B.: *See*—

Davis, Cecil J.; Spencer, John E.; Johnson, Randall E.; Jucha, Rhett B.; Brown, Frederick W.; and Kohan, Stanford P., 4,669,413, Cl 156-345.000.

Davis, Cecil J.; Carter, Duane E.; and Jucha, Rhett B., 4,685,999, Cl 156-643.000.

Juchnowski, Ray, to Dana Corporation. Swivel hose coupling assembly and method. 4,671,542, 6-9-87, Cl 285-174.000.

Jud, Wilfried, to Folienwalzwerk Bruder Teich Aktiengesellschaft. Package with weakened portion for opening. 4,658,963, 4-21-87, Cl 206-632.000.

Juda, Robert H.; Crawford, Roger A.; and Chakrabarti, Paritosh M., to PPG Industries, Inc. Halophor composition. 4,693,894, 9-15-87, Cl 424-150.000.

Juda, Walter, to Prototech Company. Lithium hydride anode for use in alkaline batteries. 4,661,425, 4-28-87, Cl 429-206.000.

Juday, Jim: *See*—

Kassal, Randy; and Juday, Jim, 4,653,121, Cl 2-160.000.

Judd, Duncan B.: *See*—

Clitherow, John W.; Bradshaw, John; Mackinnon, John W. M.; Judd, Duncan B.; Bays, David E.; Hayes, Roger; and Pearce, Andrew, 4,670,448, Cl 514-334.000.

Judd & Judd, Inc.: *See*—

Bundy, Donald E.; and Bundy, Ronald W., 4,634,163, Cl 293-117.000.

Judd, Richard K.: *See*—

DeMinco, Chris M.; Field, Martin J.; and Judd, Richard K., 4,693,393, Cl 220-374.000.

Judes, Avie: *See*—

Beihoff, Bruce C.; Judes, Avie; and Baran, Michael S., 4,683,515, Cl 361-106.000.

Judge, Alfred H., to Black & Decker, Inc. Staple magazine for multiple width staples. 4,667,865, 5-26-87, Cl 227-109.000.

Judge, Edward E., Jr.: *See*—

Judge, Norman R.; Judge, Edward E., Jr.; and Reiser, Arthur G., 4,682,444, Cl 51-154.000.

Judge, John S.: *See*—

Sukonnik, Israil M.; Judge, John S.; and Kilgore, Colin H., 4,711,115, Cl 72-329.000.

Judge, Joseph. Toothbrush holder attachment for toothpaste tubes. 4,705,194, 11-10-87, Cl 222-192.000.

Judge, Norman R.; Judge, Edward E., Jr.; and Reiser, Arthur G., to Industrial Metal Products Corporation. Microfinishing apparatus and method. 4,682,444, 7-28-87, Cl 51-154.000.

Judkins, Kenneth R.; and Osmundson, Michael D. Reduction of iron ore concentrates with magnesium or aluminum. 4,701,213, 10-20-87, Cl 75-27.000.

Judkins, Ren S., to Verosol USA Inc. Sun blind. 4,673,018, 6-16-87, Cl 160-84.00R.

Judy, Charles R.: *See*—

Dahlstrom, David K.; Fife, Merrill E.; and Judy, Charles R., 4,709,361, Cl 367-165.000.

Judy's Walking Beam Service, Inc.: *See*—

Moffett, Darcel R., 4,704,780, Cl 29-252.000.

Jue, Clifford T.: *See*—

Wiens, John P.; and Jue, Clifford T., 4,716,480, Cl 360-105.000.

Jue, Suey, to Grumman Aerospace Corporation. Multi-degree of freedom mount. 4,635,548, 4-7-87, Cl 350-245.000.

Jue, Suey: *See*—

Leib, Kenneth G.; Peck, Alexander N., II; and Jue, Suey, 4,703,994, Cl 350-375.000.

Jue, Thomas H.: *See*—

Avison, Malcolm J.; Hetherington, Hoby P.; Jue, Thomas H.; and Rothman, Douglas L., 4,678,995, Cl 324-309.000.

Juen, Masahiro: *See*—

Nozawa, Hideyo; Hara, Toshiro; and Juen, Masahiro, 4,704,022, Cl 354-219.000.

Juengel, Richard O., to GTE Valeron Corporation. Probe having low battery detection/transmission feature. 4,658,509, 4-21-87, Cl 33-558.000.

Juengel, Richard O., to GTE Valeron Corporation. Touch probe using microwave transmission. 4,670,989, 6-9-87, Cl 33-558.000.

Juengel, Richard O., to GTE Valeron Corporation. Method and apparatus for testing the operability of a probe. 4,693,110, 9-15-87, Cl 73-1.00R.

Juergenhake, Bernhard. Transport system for an automatic cable processing machine. 4,655,107, 4-7-87, Cl 83-23.000.

Juffermans, Johannes P. H.: *See*—

Heeringa, Auke; Juffermans, Johannes P. H.; and Kaster, Bart, 4,677,028, Cl 428-422.800.

Jufuku, Yasunobu: *See*—

Okawa, Susumu; Jufuku, Yasunobu; Okuwaki, Shigeru; Kondo, Takayoshi; Endo, Toshiya; and Nakata, Shigenori, 4,655,734, Cl 474-242.000.

Juge, Sylvain; and Legras, Yvonne, to Societe Nationale Elf Aquitaine. Cyclic diphosphonites. 4,694,094, 9-15-87, Cl 558-76.000.

Jugler, John: *See*—

Harris, Everett A.; and Jugler, John, 4,651,043, Cl 310-323.000.

Juhala, Roland E.: *See*—

Reynolds, Albert H., III; McDaniel, Ernie C.; and Juhala, Roland E., 4,715,707, Cl 356-28.500.

Juhan, Jaroslaw V. M., to JJD S.A. Vehicle disc wheel with multiple tires on one rim. 4,715,660, 12-29-87, Cl 301-13.00R.

Juhanson, Juhannes. Non-skid case. 4,655,360, 4-7-87, Cl 220-69.000.

Juhas, William M. Modular pre-insulated, pre-finished building block. 4,694,624, 9-22-87, Cl 52-228.000.

Juhasz, Adam, to Chemokomplex Vegyipari Gep- Es Berendezes Export-Import Vallalata. Filter plate for filter presses. 4,668,[illegible], 5-26-87, Cl 210-227.000.

Juhasz, Laszlo; and McLeod, Angus L., to Charcoal Cloth Ltd. Wound dressings. 4,715,857, 12-29-87, Cl 604-359.000.

Juhasz, Mihaly, to Kozponti Valto-es Hitelbank Rt. Innovacios Alap. Gas-heated or kerosene-heated boiler for warm water, hot water or steam generation. 4,665,894, 5-19-87, Cl 126-350.00R.

Juhl, Roger L.; Potter, James L.; and Polemenakos, Sotiros C., to Dow Chemical Company, The. Stable polyamide solutions. 4,714,736, 12-22-87, Cl 524-608.000.

Juhlin, Nils J. W.: *See*—

Andersson, D. Bertil; Juhlin, Nils J. W.; Gillenium, Claes L.; Kjell-Berger, Olle; and Brinck, Owe R., 4,661,119, Cl 44-10.00C.

Juhlin, Sven-Eric: *See*—

Bergkvist, Hakan; Juhlin, Sven-Eric; and Benktzon, Maria, 4,647,094, Cl 294-3.000.

Juhling, Dieter, to Sulzer Brothers Limited. Bayonet coupling for hollow cylindrical members. 4,648,635, 3-10-87, Cl 285-361.000.

Juhn, Steven K. Apparatus for collecting specimens. 4,641,663, 2-10-87, Cl 128-765.000.

Juhola, Pentti, to Rintekno Oy. Method and equipment for utilization of the freezing heat of water as a source of heat of a heat pump. 4,694,658, 9-22-87, Cl 62-100.000.

Juhuku, Hiroki, to Hakushin Kogyo Co., Ltd. Refuse compaction unit. 4,658,717, 4-21-87, Cl 100-126.000.

Juillerat, Pierre, to Sameca S.A. Guide-bar device for multi-spindle lathe. 4,649,779, 3-17-87, Cl 82-2.700.

Juillet, Hubert. Dispenser for hot and cold products. 4,687,119, 8-18-87, Cl 221-101.000.

Jujo, Akihiro: *See*—

Kojima, Koichi; Jujo, Akihiro; Okabayashi, Masanori; Shimatani, Ryoichi; Toyama, Kenji; and Kanzaki, Nobuyoshi, 4,681,672, Cl 204-129.400.

Jujo Paper Co., Ltd.: *See*—

Higuchi, Takayoshi; Tanahashi, Mitsuhiko; and Mastukura, Motoi, 4,684,740, Cl 549-464.000.

Kojima, Yutaka; Omori, Takashi; and Nagai, Koichi, 4,650,714, Cl 428-341.000.

Satake, Toshimi; Minami, Toshiaki; Maruyama, Kazuo; and Fujimura, Fumio, 4,644,375, Cl 346-209.000.

Yasui, Nobushige; Fukumoto, Muneki; and Saito, Shinzo, 4,667,873, Cl 229-137.000.

Jukkola, Glen D.: *See*—

Peletz, Lawrence J., Jr.; and Jukkola, Glen D., 4,690,076, Cl 110-347.000.

Julia, Enric: *See*—

Ramallo, Tomas A.; Puchal, Francisco M.; Pinol, Juan C.; and Julia, Enric, 4,665,099, Cl 514-763.000.

Julia, Marc; and Cuvigny, Therese, to Roussel Uclaf. Novel process. 4,670,577, 6-2-87, Cl 558-378.000.

Juliana, Anthony, Jr.; Latta, Milton R.; Sincerbox, Glenn V.; and Willson, Carlton G., to International Business Machines Corporation. Optical system for focus correction for a lithographic tool. 4,645,[illegible], 2-24-87, Cl 356-150.000.

Juliano, Rudolph L.: *See*—

Lopez-Berestein, Gabriel; Fainstein, Victor; Hersh, Evan M.; Hopfer, Roy L.; Juliano, Rudolph L.; Mehta, Kapil; and Mehta, Reeta, 4,663,167, Cl 514-37.000.

Julich, Paul M.; and Pearce, Jeffrey B., to Harris Corporation. Fault detection and redundancy management system. 4,634,110, 1-6-87, Cl 371-11.000.

Julien, Clayton J.: *See*—

Wilhelm, Earl E.; and Julien, Clayton J., 4,662,281, Cl 102-494.000.

Julien, Hermann: *See*—

Wahl, Detlev; Elter, Herbert; and Julien, Hermann, 4,646,574, Cl 73-741.000.

Julien, Romeo, Jr., to Les Maisons Quebco Inc. Hinge pin support having variably positionable enterengaging members. 4,675,942, 6-30-87, Cl. 16-384.000.

Julius Blum Gesellschaft m.b.H.: *See—*
- Blum, Dietmar, 4,692,973, Cl. 29-33.00K.
- Horvath, Glenn, 4,670,990, Cl. 33-562.000.
- Rapp, Reinhold, 4,659,237, Cl. 384-19.000.
- Rock, Erich; and Brustle, Klaus, 4,641,394, Cl. 16-302.000.
- Rock, Erich; and Brustle, Klaus, 4,641,396, Cl. 16-370.000.
- Rock, Erich; Rupprechter, Helmut; and Brustle, Klaus, 4,654,932, Cl. 16-382.000.
- Rock, Erich; Rupprechter, Helmut; and Brustle, Klaus, 4,680,830, Cl. 16-241.000.
- Rock, Erich; and Rupprechter, Helmut, 4,686,769, Cl. 33-197.000.
- Rock, Erich; Rupprechter, Helmut; and Brustle, Klaus, 4,691,408, Cl. 16-241.000.
- Rock, Erich; and Schwarzler, Felix, 4,692,035, Cl. 384-18.000.
- Rock, Erich; and Hollenstein, Helmut, 4,697,946, Cl. 403-9.000.
- Rock, Erich; and Hollenstein, Helmut, 4,700,994, Cl. 312-330.00R.
- Rock, Erich; and Schwarzler, Felix, 4,703,982, Cl. 312-330.00R.
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Julkunen, Pasi: *See—*
- Uitto, Vesa; Julkunen, Pasi; Latva-Pukkila, Pasi; and Kukka, Timo, 4,671,366, Cl. 175-27.000.

Julkunen, Toivo E.: *See—*
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Julavich, George C. Energy-saving method and apparatus for automatically controlling cooling pumps of steam power plants. 4,642,992, 2-17-87, Cl. 60-661.000.

Julstrom, Stephen D., to Shure Brothers, Inc. Microphone actuation control system suitable for teleconference systems. 4,658,425, 4-14-87, Cl. 381-51.000.

Julstrom, Stephen D., to Shure Brothers, Inc. Directional enhancement circuit. 4,696,036, 9-22-87, Cl. 381-22.000.

Julstrom, Stephen D., to Shure Brothers, Inc. Teleconference system. 4,712,231, 12-8-87, Cl. 379-202.000.

Jumberca, S.A.: *See—*
- Dalmau Guell, Jose M., 4,640,104, Cl. 66-222.000.

Jumeau, Elizabeth J., to BOC Group, Inc., The. Valve arrangement. 4,706,700, 11-17-87, Cl. 137-247.290.

Jumel, Bernard: *See—*
- Focqueur, Herve; and Jumel, Bernard, 4,714,448, Cl. 464-68.000.

Jun, Imai: *See—*
- Hitoshi, Yamazaki; Takao, Takeda; Shizuo, Nakano; Kouji, Yamamoto; Hiroshi, Ito; and Jun, Imai, 4,659,962, Cl. 313-493.000.
- Takao, Takeda; Hitoshi, Yamazaki; Shizuo, Nakano; Kouzi, Yamamoto; Hiroshi, Ito; and Jun, Imai, 4,645,972, Cl. 313-634.000.

Juncosa, Robert D., to American Mediscan, Inc. Apparatus for epithelial tissue impedance measurements. 4,690,152, 9-1-87, Cl. 128-734.000.

Jundt, Werner: *See—*
- Arnold, Herbert; Jundt, Werner; Malicki, Siegfried; and Werner, Peter, 4,653,450, Cl. 123-479.000.
- Arnold, Herbert; Horbelt, Michael; and Jundt, Werner, 4,713,812, Cl. 371-10.000.
- Braun, Gunter; Jundt, Werner; Miller, Norbert; and Nager, Jurgen, 4,689,746, Cl. 364-431.050.

Juneau, Matthew K.: *See—*
- Sulzer, Gerald M.; Tedder, Joseph B., Jr.; Adams, J. Robert, Jr.; and Juneau, Matthew K., 4,656,018, Cl. 423-300.000.

Junemann, Gitta; Hirsch, Werner; and Weiss, Arno, to B.A.T. Cigarettenfabriken GmbH. Process for the moistening of comminuted smoking materials. 4,709,709, 12-1-87, Cl. 131-306.000.

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Junemann, Hubert, to Kochs Adler AG. Method for sewing together a tubular workpiece and a pocket-shaped workpiece and automatic sewing device for carrying out the method. 4,685,407, 8-11-87, Cl. 112-262.200.

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Junet, Roland: *See—*
- Casier, Yves; Cassagne, Philippe; Gicquel, Sylvain; and Junet, Roland, 4,640,458, Cl. 237-17.000.

Jung, Adolf: *See—*
- Cappel, Bert; Knapp, Karl L.; and Jung, Adolf, 4,690,054, Cl. 101-409.000.

Jung, Alfred K.; and Weil, Edward D., to Stauffer Chemical Company. Liquid-water displacement composition of a chlorofluorocarbon compound and a phosphate salt surfactant. 4,655,958, 4-7-87, Cl. 252-194.000.

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Jung Corporation: *See—*
- Drury, Alvin C., 4,685,405, Cl. 112-121.150.

Jung, Dae Y.: *See—*
- Fey, Edmond O.; Haselbauer, Peter; Jung, Dae Y.; Kaschak, Ronald A.; Kilthau, Hans-Dieter; Magnuson, Roy H.; and Wagner, Robert J., 4,684,545, Cl. 427-98.000.

Jung, Douglas B., to Union Oil Company of California. Geothermal steam separator. 4,654,061, 3-31-87, Cl. 55-452.000.

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Jung, Eggert: *See—*
- Hoffrichter, Ingo; Jung, Eggert; and Keller, Hans, 4,649,423, Cl. 358-80.000.

Jung, Erich: *See—*
- Rodriguez, Jose-Ignacio; and Jung, Erich, 4,677,519, Cl. 361-101.000.

Jung, Frederic, to ICI Pharma. 3-substituted-aminomethyl cephalosporin derivatives. 4,678,781, 7-7-87, Cl. 514-200.000.

Jung, Gerd: *See—*
- Brenner, Rolf; Jose, Horst-Udo; Jung, Gerd; and Koder, Robert, 4,650,680, Cl. 429-129.000.

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Jung, Harald: *See—*
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- Herold, Gerald C.; and Jung, Harley A., 4,702,634, Cl. 401-53.000.

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- Rodloff, Rudiger K.; Jungbluth, Werner W.; and Laschinski, Dieter H., 4,650,331, Cl. 356-350.000.
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Bystrom, Karl; Karlsson, Erik; Kihlberg, Gunnar; and Reit, Henry, 4,646,010, Cl. 324-208.000.

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Ghosh, Subir; and Junior, Aluizio P., 4,680,558, Cl. 333-21.00R.

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Truitt, Robert B.; and Junius, V. Bruce, 4,713,159, Cl. 204-197.000.

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Junkas, Ronald J. Portable weighing device. 4,697,655, 10-6-87, Cl. 177-127.000.

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Junker, Warren R., to Westinghouse Electric Corp. Eddy current inspection probe and method for assembling same. 4,668,912, 5-26-87, Cl. 324-220.000.

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Jupp, Jeffrey A.; and Rees, Peter H., to British Aerospace PLC. Aircraft wing and winglet arrangement. 4,714,215, 12-22-87, Cl. 244-199.000.

Juptner, Werner P.-O.; Rothe, Rudiger G. R. V.; and Sepold, Gerd K.-H., to Bias Forschungs- und Entwicklungslabor fur Angewandte Strahltechnik. Device for processing workpieces using an energy beam of high power density, in particular a laser beam from a CO_2 laser. 4,667,080, 5-19-87, Cl. 219-121.0LQ.

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Jurga, Stanley M., to George Frost Company. Baseball catcher's leg guard. 4,692,946, 9-15-87, Cl. 2-22.000.

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Jurgensen, Bruce A. Power beam for rotating structural member. 4,683,677, 8-4-87, Cl. 49-200.000.

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Itoh, Seiga; Nishi, Tatsunari; Mizukami, Tamio; Matsumoto, Tadashi; Oka, Tetsuo; Taniguchi, Tadatsugu; and Sugano, Haruo, 4,686,191, Cl. 435-320.000.

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  Ohtomo, Nobuya; Mizuno, Kyosuke; Hamada, Fukusaburo; and Mizokami, Hiroshi, 4,710,378, Cl. 424-89.000.
  Sakuma, Shin; Sakamoto, Kuniaki; Kitagawa, Hisashi; Sakoh, Mitsuo; and Nonaka, Saneo, 4,704,274, Cl. 424-88.000.
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  Boytor, Samuel G.; and Jurs, Jeffry W., 4,697,231, Cl. 364-188.000.
Jursich, Donald N.: *See—*
  Rieckman, Roger A.; Hemrich, William R.; Jursich, Donald N.; and Crowley, George C., 4,683,369, Cl. 219-364.000.
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  Orihashi, Tadaaki; Tsuji, Hiroshi; Ogawa, Kazuhiko; Hayashitani, Masao; Terada, Seiji; Miyagawa, Tsugio; and Isozaki, Hideo, 4,673,486, Cl. 208-86.000.
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Just, Bernhard: *See—*
  Frenznick, Anton; Just, Bernhard; Krauss, Eugen; Pfander, Werner; and Trankle, Ewald, 4,674,816, Cl. 439-588.000.
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  Zoller, Gerhard; Beyerle, Rudi; Just, Melitta; Martorana, Piero; Bohn, Helmut; and Nitz, Rolf-Eberhard, 4,666,902, Cl. 514-212.000.
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ustice, Steven W.: *See—*
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stus, Edgar J., to Beloit Corporation. Controlled deflection roll. 4,685,183, 8-11-87, Cl. 29-116.0AD.
stus, Erhard. Device for straightening cold-deformable, rotationally-symmetrical workpieces. 4,655,066, 4-7-87, Cl. 72-90.000.
stus, Scott B.: *See—*
  Brosius, Karl S.; Justus, Scott B.; and Salvatora, David A., 4,640,815, Cl. 419-8.000.
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  Eberle, Rudolf; Essert, Wilfried; and Kull, Herbert, 4,681,664, Cl. 204-9.000.
  Kull, Herbert, 4,710,276, Cl. 204-9.000.
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  Waltman, John H.; Stewart, Wesley J.; and Leroux, Gerald E., 4,679,543, Cl. 126-25.00R.
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  Hogberg, Leif, 4,690,301, Cl. 221-2.000.
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K. O. Lee Company: *See—*
  Erani, Homi K., 4,662,116, Cl. 51-3.000.
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K-Products, Inc.: *See—*
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K-T, Inc.: *See—*
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Kaai, Takeshi: *See—*
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  Rellermeyer, Heinrich; and Kaas, Werner, 4,645,184, Cl. 266-81.000.

Kaatze, Michael; and Reiff, Dieter, to TCHIBO-Frisch-Rost-Kaffee AG. Method and apparatus for roasting small quantities of coffee. 4,642,906, 2-17-87, Cl. 34-13.000.

Kabacinski, Mariusz, to U.S. Philips Corporation. Magnetic tape scanning unit and method of assembly thereof. 4,692,822, 9-8-87, Cl. 360-84.000.

Kabacoff, Bernard L.; Markrow, Fred, and Govil, Alok K., to Revlon, Inc. Method of hair damage assessment. 4,665,741, 5-19-87, Cl. 73-149.000.

Kabana, Joseph A. Apparatus for selecting numbers. 4,699,382, 10-13-87, Cl. 273-144.00B.

Kabanek, Joseph R. Orthopedic attachment for surgical tables. 4,635,914, 1-13-87, Cl. 269-328.000.

Kabas, Guglielmo, deceased: *See—*

Burdeska, Kurt; Kabas, Guglielmo, deceased; Brunner, Hans-Georg; and Fory, Werner, 4,674,229, Cl. 47-57.600.

Kabas-Maskulinski, Anni, legal heir: *See—*

Burdeska, Kurt; Kabas, Guglielmo, deceased; Brunner, Hans-Georg; and Fory, Werner, 4,674,229, Cl. 47-57.600.

Kabasawa, Satoshi; Hsieh, Ming-Shiun; Chang, Shih-Ming, and Lin, Chun-Hong, to Matsushita Electric Industrial Co., Ltd. Pattern recognition system. 4,715,004, 12-22-87, Cl. 364-513.500.

Kabashima, Shoshi: *See—*

Maruyama, Yoshio, and Kabashima, Shoshi, 4,681,528, Cl. 425-562.000.

Kabasin, Daniel F., to General Motors Corporation. Air flow measuring system for internal combustion engines. 4,664,090, 5-12-87, Cl. 123-494.000.

Kabasin, Daniel F., to General Motors Corporation. Acceleration enrichment fuel control. 4,711,218, 12-8-87, Cl. 123-492.000.

Kabatnik, Wilfried: *See—*

Buck, Manfred; Fehrle, Siegfried; Holzel, Martin; Kabatnik, Wilfried; Schmid, Wolfgang, and Wanner, Karl, 4,693,407, Cl. 227-109.000.

Kabay, Steve: *See—*

Baird, James R.; and Kabay, Steve, 4,708,579, Cl. 414-723.000.

Kabaya, Morihiro: *See—*

Fujino, Yukio; and Kabaya, Morihiro, 4,680,822, Cl. 5-421.000.

Kabb, Harold L.; Flint, John R.; Videlock, Gary B.; Niazi, Ishfaq A.; Hendrickson, Kenneth L.; Slutsky, Gary S.; Schwalb, Stuart F.; Carroll, John J.; and Friedrich, Paul H., to Bell & Howell Company. Control system for microimage recorders. 4,699,504, 10-13-87, Cl. 355-20.000.

Kabbaby, Charles B. Shower-mounted douche apparatus. 4,642,100, 2-10-87, Cl. 604-150.000.

Kabbe, Hans-Joachim; Widdig, Arno; Niewohner, Ulrich; Knorr, Andreas; Garthoff, Bernward; and Kazda, Stanislav, to Bayer Aktiengesellschaft. Circulation active novel substituted 4-hydroxy-benzopyrans. 4,647,579, 3-3-87, Cl. 514-456.000.

Kabbe, Hans-Joachim; Niewohner, Ulrich; Widdig, Arno; Knorr, Andreas; Garthoff, Bernward; and Kazda, Stanislav, to Bayer Aktiengesellschaft. Substituted aminomethyl benzopyrans having antihypertensive activities. 4,659,737, 4-21-87, Cl. 514-456.000.

Kabbe, Hans-Joachim: *See—*

Gauss, Walter; Kabbe, Hans-Joachim; Paulus, Wilfried; Rosslenbroich, Hans-Jurgen; and Brandes, Wilhelm, 4,644,000, Cl. 514-260.000.

Kabe, Atsushi: *See—*

Iwasa, Yamahiro; Kabe, Atsushi, and Oba, Yoichi, 4,684,054, Cl. 228-180.100.

Kabe, Kazuyuki; Morikawa, Tuneo, and Tsukada, Shuichi, to Yokohama Rubber Co., Ltd., The. Pneumatic tire. 4,657,058, 4-14-87, Cl. 152-556.000.

Kabe, Kazuyuki, and Morikawa, Tuneo, to Yokohama Rubber Co., Ltd. Pneumatic radial tire. 4,691,752, 9-8-87, Cl. 152-527.000.

Kabe, Kazuyuki; Morikawa, Tuneo; and Takahashi, Shuji, to Yokohama Rubber Co., Ltd., The. Pneumatic radial tire for passenger car. 4,711,286, 12-8-87, Cl. 152-527.000.

Kabe, Kazuyuki; and Morikawa, Tuneo, to Yokohama Rubber Co., Ltd., The. Pneumatic tire for passenger car. 4,715,420, 12-29-87, Cl. 152-557.000.

Kabe, Toshiaki; and Kameyama, Hideo. Chemical heat pump system. 4,701,199, 10-20-87, Cl. 62-4.000.

Kabel-und Metallwerke Gutehoffnungshuette AG: *See—*

Gravemann, Horst, 4,702,299, Cl. 164-137.000.

Kabeldon Aktiebolag: *See—*

Palmqvist, Lars I.; and Svensson, Bolennart A., 4,685,189, Cl. 29-450.000.

Kabelitz, Hans-Peter: *See—*

Frings, Heinz; Kabelitz, Hans-Peter; and Ronthaler, Karl-Heinz, 4,639,199, Cl. 418-3.000.

Kabelmetal Electro Gesellschaft mit beschrankter H[illegible]ung: *See—*

Schauer, Friedrich; and Berthold, Hans, 4,69[illegible] 439-11.000.

Schauer, Friedrich, 4,707,914, Cl. 29-872.00[illegible]

Schneider, Arthur; Baum, Walter; and Zehl, [illegible], 4,686,530, Cl. 340-870.310.

Ziemek, Gerhard; Kubiak, Herbert; and Tripk[illegible]as, 4,663,954, Cl. 72-77.000.

Ziemek, Gerhard; and Schatz, Friedrich, 4,674,543, Cl. 138-153.000.

Kabelschlepp Gesellschaft mit beschrankter Haftung: *See—*

Moritz, Werner, 4,669,507, Cl. 138-92.000.

Moritz, Werner, 4,672,805, Cl. 59-78.100.

Moritz, Werner, 4,702,281, Cl. 138-120.000.

Kabelwerke Friedrich C. Ehlers: *See—*

Groschupp, Karl-Heinz; and Vreeke, Simon P., 4,697,522, Cl. 102-402.000.

Kabeshita, Akira: *See—*

Kudoh, Shuichi; Kabeshita, Akira, and Murakami, Syuch

4,656,048, Cl. 427-8.000.

KabiVitrum AB: *See—*

Bergwitz-Larsen, Carl-Aage; and Osterlund, Rolf G. L., 4,693,99

Cl. 514-54.000.

KabiVitrum, Inc.: *See—*

Kirkland, W. Dean, 4,639,251, Cl. 604-260.000.

Kable, Robert G., and Schlosser, Philip A., to Scriptel Corporation. Electrographic apparatus. 4,665,283, 5-12-87, Cl. 178-19.000.

Kable, Robert G., to Scriptel Corporation. Position responsive appara

tus, system and method having electrographic application. 4,678,86

7-7-87, Cl. 178-19.000.

Kable, Robert G., to Scriptel Corporation. Stylus for position respo

sive apparatus having electrographic application. 4,695,680, 9-22-87,

Cl. 178-19.000.

Kable, Robert G., and Schlosser, Philip A., to Scriptel Corporation. Tracer for electrographic surfaces. 4,707,572, 11-17-87, Cl. 178-18.000.

Kable, Robert G.: *See—*

Nakamura, Shoichiro, and Kable, Robert G., 4,649,232, Cl. 178-18.000.

Nakamura, Shoichiro, and Kable, Robert G., 4,650,926, Cl. 178-18.000.

Kabo, J. Michael: *See—*

Amstutz, Harlan C.; and Kabo, J. Michael, 4,715,860, Cl. 623-22.000.

Kabumoto, Takashi: *See—*

Kataoka, Koichi, and Kabumoto, Takashi, 4,678,047, Cl. 177-1.00

Kaburagi, Koji: *See—*

Katayama, Toshitake; Kuwamoto, Hiroshi; Iwado, Shuich

Sonoda, Sakae; Okamoto, Shoji; and Kaburagi, Koji, 4,666,617,

Cl. 252-32.000.

Kabushi Kaisha Daikin Seisakusho: *See—*

Kamio, Takenori, 4,646,894, Cl. 192-85.0AA.

Kabushika Kaisha Toshiba: *See—*

Yanagihara, Masanobu, 4,660,393, Cl. 68-26.000.

K.K. Iwai: *See—*

Kato, Teruyuki, 4,641,883, Cl. 297-184.000.

Kabushiki Kaisha Advance Kaihatsu Kenkyujo: *See—*

Kawai, Yasuo; and Yazawa, Kazunaga, 4,687,764, Cl. 514-54.00

Yanagida, Hiroaki, and Ogata, Tadashi, 4,715,944, Cl. 204-426.00

Kabushiki Kaisha Aidete: *See—*

Ide, Manabu, 4,701,084, Cl. 409-131.000.

Kabushiki Kaisha Airin: *See—*

Hayashi, Yoshikazu, 4,667,588, Cl. 99-372.000.

Kabushiki Kaisha Akashi Seisakusho: *See—*

Kuwano, Hiroaki; Matsushita, Toshiro; Kakuma, Hideaki; and Motomiya, Teruaki, 4,648,580, Cl. 251-129.010.

Kabushiki Kaisha Alpha Giken: *See—*

Tanaka, Yoshinobu; and Yokoi, Hiromitsu, 4,634,023, Cl. 222-105.000.

Kabushiki Kaisha Ando Screen Seisakusho: *See—*

Ando, Seiya, 4,655,907, Cl. 209-404.000.

Kabushiki Kaisha Aoki Seisakusho: *See—*

Aoki, Katashi, 4,645,443, Cl. 425-150.000.

Kabushiki Kaisha Asahi Seisakusho: *See—*

Suzuki, Hiroshi, 4,665,945, Cl. 137-613.000.

Suzuki, Kenji; and Ito, Yoshinori, 4,660,714, Cl. 206-0.600.

Kabushiki Kaisha Asano Kenkyusho: *See—*

Asano, Kazuo, 4,633,745, Cl. 83-455.000.

Kabushiki Kaisha Bandai: *See—*

Higashi, Kanji, 4,638,560, Cl. 30-47.000.

Kimura, Shigeo, 4,648,487, Cl. 185-39.000.

Kabushiki Kaisha Cosina: *See—*

Yoshimura, Hirofumi, 4,694,151, Cl. 250-201.000.

Kabushiki Kaisha Cyuou Kousoku Consultant: *See—*

Wakisaka, Yoshiki, 4,666,156, Cl. 273-32.00H.

Kabushiki Kaisha Daikin Seisakusho: *See—*

Fujito, Nobutoshi; and Takeuchi, Hiroshi, 4,657,128, Cl. 192-113.00A.

Fukatani, Yasunobu, 4,660,695, Cl. 192-89.00B.

Fukutake, Heiji; and Iwata, Shozo, 4,633,990, Cl. 192-70.270.

Hashimoto, Yasuyuki, 4,690,660, Cl. 464-68.000.

Kawai, Hideaki, and Murakami, Kiyoharu, 4,662,243, Cl. 74-731.000.

Kayanoki, Katsuhiko; Teramachi, Kazuo; Ono, Seigo; and Hashimoto, Yasuyuki, 4,650,053, Cl. 192-106.200.

Kitayama, Kozi, 4,645,053, Cl. 192-106.200.

Koshimo, Masahiko, 4,668,207, Cl. 464-63.000.

Majima, Hidekazu; and Kamio, Takenori, 4,664,240, Cl. 192-85.0CA.

Murakami, Kiyoharu, 4,646,899, Cl. 192-106.100.

Nagano, Tamio, 4,651,860, Cl. 192-106.200.

Nagano, Tamio, 4,679,683, Cl. 192-89.00B.

Ohkubo, Masahiro, 4,671,062, Cl. 60-362.000.

Ohkubo, Masahiro, 4,685,352, Cl. 74-665.0GA.

Ohkubo, Masahiro, 4,713,984, Cl. 74-732.000.

Ooga, Syougo; and Minbu, Shouhei, 4,667,795, Cl. 192-70.270.

Ooga, Syougo, 4,671,399, Cl. 192-107.00C.

Ookubo, Mamoru; Iwasaki, Takayuki; and Mieda, Kenji, 4,642,871, Cl. 29-513.000.

Sumihi, Noritaka, 4,677,867, Cl. 74-332.000.

Takeuchi, Hiroshi; Majima, Hidekazu; and Fukushima, Hirotaka, 4,646,892, Cl. 192-70.270.
Takeuchi, Hiroshi, 4,684,002, Cl. 192-70.250.
Teramae, Hiroshi; and Yoshimura, Yoshinari, 4,681,201, Cl. 192-106.200.
Tojima, Hiromi; and Kajitani, Juji, 4,674,991, Cl. 464-24.000.
Uenohara, Norihisa, 4,709,796, Cl. 192-106.100.
Yoneda, Kazuhiko, 4,633,989, Cl. 192-70.270.
Yoneda, Kazuhiko; Kitano, Seiichi; and Fukuda, Yoshinobu, 4,643,289, Cl. 192-106.200.
Kabushiki Kaisha Daini Seikosha: *See—*
Ishida, Takashi, 4,707,145, Cl. 368-201.000.
Ishikawa, Takehiro, 4,638,247, Cl. 324-73.00R.
Kawahara, Yukito, 4,680,580, Cl. 340-784.000.
Miyata, Tsutomu; and Nagai, Masahide, 4,692,881, Cl. 364-551.000.
Namiki, Masayuki; Kamiya, Masaaki; Kojima, Yoshikazu; and Tanaka, Kojiro, 4,639,755, Cl. 357-28.000.
Shimbo, Masafumi, 4,635,089, Cl. 357-42.000.
Tabata, Junichi, 4,715,384, Cl. 128-706.000.
Wanibuchi, Hiroshi; and Kubota, Akira, 4,638,704, Cl. 83-628.000.
Yamazaki, Tsuneo, 4,643,530, Cl. 350-339.00R.
Kabushiki Kaisha Daisei Kikai: *See—*
Kawakami, Sanji, 4,679,641, Cl. 177-114.000.
Suzuki, Tomosaburo, 4,642,939, Cl. 47-14.000.
Kabushiki Kaisha Daiwa Industry: *See—*
Kasiwade, Yoshiaki, 4,636,800, Cl. 343-766.000.
Kabushiki Kaisha Four Brain: *See—*
Kusano, Takae; and Ueno, Masato, 4,634,381, Cl. 433-172.000.
Kusano, Takae; and Ueno, Masato, 4,634,382, Cl. 433-182.000.
Kabushiki Kaisha Fuji Iryoki: *See—*
Yamasaki, Yoshikiyo, 4,699,422, Cl. 297-18.000.
Kabushiki Kaisha Fuji Kikaku: *See—*
Ueno, Toshio, 4,684,529, Cl. 426-237.000.
Kabushiki Kaisha Fuji Tekkosho: *See—*
Matsumoto, Yukimichi, 4,715,552, Cl. 242-56.00A.
Kabushiki Kaisha Fujikoshi: *See—*
Hariki, Kazuo, 4,683,544, Cl. 364-513.000.
Kanayama, Hideaki, 4,715,772, Cl. 414-730.000.
abushiki Kaisha Furukawa Seisakusho: *See—*
Kawaguchi, Masashi; and Yasumune, Masaru, 4,640,081, Cl. 53-510.000.
abushiki Kaisha Gakushu Kenkyusha: *See—*
Inada, Mitate, 4,674,433, Cl. 116-279.000.
Ishiyama, Shozo, 4,667,962, Cl. 273-157.00R.
Kurosawa, Kenzo, 4,671,779, Cl. 446-457.000.
Tohata, Susumu; and Numata, Kunio, 4,636,050, Cl. 353-66.000.
abushiki-Kaisha Goko Eizo-Kagaku Kenkyujo: *See—*
Goto, Tadashi, 4,643,565, Cl. 356-24.000.
abushiki Kaisha Harmo: *See—*
Hama, Tomio, 4,685,602, Cl. 225-93.000.
abushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo: *See—*
Hirao, Katsumi; and Miyake, Toshio, 4,685,597, Cl. 222-389.000.
Mitsuhashi, Masakazu; and Koyama, Shunsaku, 4,659,569, Cl. 424-89.000.
abushiki Kaisha Hikoma Seisakucho: *See—*
Kishi, Mitsuihiro, 4,691,805, Cl. 187-9.00R.
abushiki Kaisha Hikoma Seisakusho: *See—*
Kishi, Mitsuhiro, 4,638,887, Cl. 187-9.00R.
Kishi, Mitsuhiro, 4,699,281, Cl. 212-267.000.
Kishi, Mitsuihiro, 4,694,930, Cl. 182-2.000.
bushiki Kaisha Honda Rokku: *See—*
Kitagawa, Tadao; Kosuge, Yutaka; and Noda, Yoichiro, 4,639,713, Cl. 340-63.000.
bushiki Kaisha Hunken: *See—*
Iwako, Motonari; and Nakao, Masaaki, 4,691,867, Cl. 241-21.000.
bushiki Kaisha Ijichi Shukeijo: *See—*
Ijichi, Masakatsu; Uehara, Yutaka; Sakaguchi, Masahiro; and Imamura, Shinichi, 4,706,607, Cl. 119-16.000.
bushiki Kaisha Ikeuchi Tekkosho: *See—*
Ikeuchi, Hiroji; and Ikeuchi, Kiyoaki, 4,692,341, Cl. 426-250.000.
bushiki Kaisha Inoue Shoten: *See—*
Inoue, Taro, 4,653,517, Cl. 132-32.00R.
bushiki Kaisha Irifune: *See—*
Nagasaki, Kousuke, 4,697,507, Cl. 99-483.000.
ushiki Kaisha Iseki Kaihatsu Koki: *See—*
Akesaka, Toshio, 4,662,606, Cl. 254-29.00R.
Akesaka, Toshio, 4,691,787, Cl. 173-145.000.
Akesaka, Toshio, 4,692,062, Cl. 405-141.000.
Sumi, Toshio, 4,655,493, Cl. 299-33.000.
ushiki Kaisha Ishida Koki Seisakusho: *See—*
Azegami, Osamu; and Miyake, Toshifumi, 4,693,378, Cl. 209-586.000.
Haze, Setsuo, 4,642,788, Cl. 364-567.000.
Haze, Setsuo; and Fujitani, Yugo, 4,661,917, Cl. 364-567.000.
Haze, Setsuo, 4,661,920, Cl. 364-571.000.
Haze, Setsuo, 4,666,002, Cl. 177-1.000.
Hikita, Michiyasu, 4,646,767, Cl. 133-8.00R.
Hikita, Michiyasu, 4,693,329, Cl. 177-4.000.
Kataoka, Koichi; and Kabumoto, Takashi, 4,678,047, Cl. 177-1.000.
Katzoka, Koichi, 4,702,394, Cl. 222-77.000.
Kitaoka, Takashi, 4,712,929, Cl. 400-76.000.
Matsumoto, Seishi; Nakashimizu, Takeo; and Abe, Yuji, 4,658,920, Cl. 177-25.000.
Mikami, Yoshiharu, 4,657,129, Cl. 193-2.00R.
Minamida, Kazukiyo; and Asai, Yoshiharu, 4,645,019, Cl. 177-25.000.
Naito, Kazufumi, 4,677,422, Cl. 340-347.0SH.
Nobutsugu, Hideo, 4,658,919, Cl. 177-1.000.
Kabushiki Kaisha Itaya: *See—*
Itaya, Reijiro, 4,669,289, Cl. 72-23.000.
Kabushiki Kaisha Ito Seisakusho: *See—*
Itoh, Kimio, 4,656,727, Cl. 29-568.000.
Kabushiki Kaisha Ito Tekkousho: *See—*
Miura, Kikuzo, 4,647,377, Cl. 210-323.200.
Kabushiki Kaisha Kamiuchi Denki Seisakusho: *See—*
Takemura, Koichi; and Shiomi, Tadashi, 4,713,716, Cl. 361-2.000.
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Watanabe, Takemi; and Shiba, Noriyuki, 4,683,022, Cl. 156-505.000.
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Kabushiki Kaisha Kaneko Seisakusho: *See—*
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Kabushiki Kaisha Kanemitsu: *See—*
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Kabushiki Kaisha Kanesaka Gijutsu Kenkyusho: *See—*
Kanesaka, Hiroshi, 4,674,688, Cl. 239-533.800.
Kabushiki Kaisha Kasho: *See—*
Tsuruoka, Kouichi; Kannan, Takaaki; and Suematu, Jiro, 4,699,264, Cl. 198-468.200.
Kabushiki Kaisha Kawai Gakki Seisakusho: *See—*
Nagashima, Yoichi; Kondo, Tatsunori; Takauji, Kiyomi; and Kitamura, Mineo, 4,635,517, Cl. 84-1.010.
Nagashima, Yoichi; Kondo, Tatsunori; Takauji, Kiyomi; Kitamura, Mineo; Matsushima, Tadashi; Nagashima, Eiji; and Mizoguchi, Masafumi, 4,638,706, Cl. 84-1.010.
Nagashima, Yoichi; Kondo, Tatsunori; Takauji, Kiyomi; Kitamura, Mineo; Matsushima, Tadashi; Nagashima, Eiji; and Mizoguchi, Masafumi, 4,638,709, Cl. 84-1.190.
Nagashima, Yoichi, 4,641,563, Cl. 84-1.010.
Nagashima, Yoichi; and Nagashima, Eiji, 4,644,841, Cl. 84-1.100.
Nagashima, Yoichi; Kondo, Tatsunori; Takauji, Kiyomi; Kitamura, Mineo; Matsushima, Tadashi; Nagashima, Eiji; and Mizoguchi, Masafumi, 4,646,611, Cl. 84-1.190.
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Kabushiki Kaisha Kawakami Seisakusho: *See—*
Nasu, Nobuo, 4,646,403, Cl. 26-100.000.
Nasu, Nobuo, 4,715,805, Cl. 425-504.000.
Kabushiki Kaisha Keihinseiki Seisakusho: *See—*
Sasao, Isamu; and Takaoka, Yoshiyasu, 4,651,926, Cl. 239-585.000.
Sasao, Isamu; and Takaoka, Yoshiyasu, 4,687,142, Cl. 239-533.300.
Kabushiki Kaisha Kenwood: *See—*
Matsui, Toshiyuki, 4,710,962, Cl. 381-102.000.
Sakai, Shigeru; and Kudo, Kazunori, 4,716,576, Cl. 375-5.000.
Shibata, Izumi, 4,698,776, Cl. 364-513.500.
Kabushiki Kaisha Kibun: *See—*
Harada, Masaru, 4,685,877, Cl. 425-190.000.
Kabushiki Kaisha Kitagawa Tekkosho: *See—*
Nobukawa, Akira; Oota, Kojiro; and Sawaguchi, Tatuei, 4,669,362, Cl. 91-467.000.
Kabushiki Kaisha Kito: *See—*
Nakamura, Takayoshi, 4,690,379, Cl. 254-347.000.
Kabushiki Kaisha Kobe Seiko Sho: *See—*
Ageta, Kosei, 4,668,146, Cl. 414-4.000.
Amano, Itaru; Fujieda, Yasuhiko; Ichikawa, Katsumi; Kanzawa, Masahide; Yanagihara, Toshio; and Misumi, Shikao, 4,669,964, Cl. 425-34.00R.
Amano, Itaru; Fujieda, Yasuhiko; Ichikawa, Katsumi; Kanzawa, Masahide; Yanagihara, Toshio; and Misumi, Shikao, 4,695,234, Cl. 425-23.000.
Asano, Kazuhiko; Takezoe, Osamu; Yasuda, Yoshinori; Hayashi, Kenji; Aoki, Masanobu; Doi, Yoshio; and Shimata, Makoto, 4,648,918, Cl. 148-439.000.
Asari, Akira; Matsumoto, Satoshi; Hattori, Shigeo; and Dosai, Takayoshi, 4,637,112, Cl. 29-159.010.
Asari, Akira; Yamamura, Takashige; Hattori, Shigeo; Ueno, Tsuneya; Matsumoto, Satoshi; Dosai, Takayoshi; Ohtsuki, Fumikazu; Fujimoto, Kazuhiro; and Takahashi, Toshimitsu, 4,669,291, Cl. 72-83.000.
Asari, Akira; Yamamura, Takashige; Hattori, Shigeo; and Ueno, Tsuneya, 4,683,630, Cl. 29-159.010.
Asari, Akira; and Tabuchi, Takahisa, 4,696,176, Cl. 72-273.500.
Asari, Akira; and Inoue, Youichi, 4,708,627, Cl. 425-405.00H.
Ayata, Kenzo; Narita, Kiichi; Mori, Takasuke; and Fujimoto, Takahiko, 4,637,453, Cl. 164-468.000.
Ayata, Kenzo; Narita, Kiichi; Mori, Takasuke; and Fujimoto, Takahiko, 4,671,335, Cl. 164-468.000.
Fujiwara, Kazuo; Tomari, Haruo; and Nakayama, Takenori, 4,664,725, Cl. 148-325.000.
Fujiwara, Kazuo; Torii, Yasushi; Kitahata, Koujiro; Inoue, Tsuyoshi; and Yokoyama, Tadamasa, deceased, 4,689,198, Cl. 420-47.000.
Fukumizu, Shinnichi; Inoue, Kimio; and Kuriyama, Akimasa, 4,695,165, Cl. 366-90.000.
Ichikawa, Katsumi; and Kanzawa, Masahide, 4,702,669, Cl. 414-749.000.
Inoue, Kimio; Fukumizu, Shinichi; and Fusamoto, Akira, 4,652,138, Cl. 366-89.000.
Kawai, Nobuyasu; Hirano, Minoru; Esaka, Hajime; and Fujimoto, Hirofumi, 4,671,930, Cl. 420-107.000.
Kawashima, Sadao; Mori, Yoshikazu; Iwasaki, Masayoshi; and Suzuki, Norio, 4,699,007, Cl. 73-622.000.

Koizumi, Yukio; and Miyazawa, Hiroshi, 4,658,972, Cl. 212-270.000.
Kokubo, Ichiro; Mizuta, Atsuo; Yamamoto, Yoshitaka; and Kitazawa, Jitsuo, 4,712,414, Cl. 72-366.000.
Konishi, Kenichi, 4,711,358, Cl. 212-178.000.
Lemper, Herbert, 4,660,615, Cl. 164-418.000.
Lemper, Herbert, 4,660,616, Cl. 164-426.000.
Lemper, Herbert, 4,678,022, Cl. 164-416.000.
Lemper, Herbert, 4,678,167, Cl. 266-165.000.
Lemper, Herbert, 4,687,046, Cl. 164-442.000.
Matsumura, Tetsuo; Ohzawa, Toshio; Kawashima, Akihiro; Ohkuma, Osamu; Sawada, Saburo; Yanai, Shun'ichi; Yoshimura, Hiroshi; and Sugino, Yasuo, 4,714,543, Cl. 208-412.000.
Miyafuji, Motohisa; Nakashima, Yasuhiro; Katayama, Satoru; Matsui, Takashi; Harada, Hidekazu; and Yuki, Youji, 4,656,003, Cl. 420-473.000.
Miyafuji, Motohisa; Yuchi, Tateo; and Tsuno, Riichi, 4,687,633, Cl. 420-481.000.
Miyoshi, Kiyotada; Tsuboi, Noboru; Nishitani, Kunihiko; Kubo, Kazuo; and Yoshimura, Shouji, 4,671,750, Cl. 418-150.000.
Miyoshi, Kiyotada; Tsuboi, Noboru; Nishitani, Kunihiko; Kubo, Kazuo; and Yoshimura, Shouji, 4,695,233, Cl. 418-83.000.
Nakagawa, Kazuhiko; Amano, Itaru; and Fujieda, Yasuhiko, 4,670,209, Cl. 264-315.000.
Nakanishi, Sadayuki; and Hayama, Kenichi, 4,673,164, Cl. 251-174.000.
Naraki, Kazuhide; Nishimura, Yoshiyuki; and Yoshimura, Shoji, 4,671,749, Cl. 418-149.000.
Okamoto, Hiroshi, 4,690,200, Cl. 164-504.000.
Okamura, Masayoshi; Matsuda, Kiyoshi; Yamada, Hiromichi; Umeda, Hiromi; and Tomimoto, Masami, 4,673,655, Cl. 436-75.000.
Orimo, Taiji; Fukui, Tsugushi; and Fukumizu, Shinichi, 4,681,457, Cl. 366-84.000.
Oshima, Hiroo, 4,715,209, Cl. 72-366.000.
Saeki, Osamu; Mori, Kenji; Onoda, Mamoru; Watanabe, Ryo; Shinohara, Katsufumi; Ashie, Takehiko; and Imanishi, Nobuyuki, 4,678,508, Cl. 75-26.000.
Sakamaki, Hirokichi; and Nakayama, Tadao, 4,656,855, Cl. 72-8.000.
Shimogori, Kazutoshi; Satoh, Hiroshi; and Kamikubo, Fumio, 4,634,478, Cl. 148-421.000.
Sugimoto, Koichi; Kamei, Kiyoshi; Murakami, Yotaro; Sugimoto, Takashi; Nishimura, Takashi; and Takashima, Takahiro, 4,634,477, Cl. 148-402.000.
Tojyo, Shigeki; Uesaka, Tatsuo; Kawate, Yoshio; Iwaskai, Masayoshi; Horiuchi, Takefumi; Moritoki, Masato; Kanda, Takeshi; Fujikawa, Takao; and Kofune, Shigeo, 4,666,314, Cl. 374-131.000.
Yamamoto, Yoshimasa, 4,650,606, Cl. 252-626.000.
Yokoyama, Kageki; and Amano, Itaru, 4,686,129, Cl. 425-47.000.

Kabushiki Kaisha Koden Seisakusho: *See—*
Hashiguchi, Shinji; Kimata, Hisayuki; and Koga, Yukuo, 4,706,090, Cl. 342-41.000.

Kabushiki Kaisha Komatsu Seisakusho: *See—*
Akiyama, Teruo; Sasaki, Katsuyuki; and Saigo, Takaichi, 4,637,781, Cl. 417-216.000.
Baba, Kiyokazu, 4,693,361, Cl. 198-621.000.
Egawa, Akira; and Noudomi, Ryoichi, 4,706,252, Cl. 372-38.000.
Fukuhara, Toshihiko, 4,653,316, Cl. 73-146.000.
Harada, Yasuo, 4,669,432, Cl. 123-198.00E.
Hattori, Hisashi; Takenoshita, Hidemitsu; and Hanada, Yoichiro, 4,708,068, Cl. 110-245.000.
Hyoki, Takuzan; Uchida, Atsushi; and Yamamoto, Yuichi, 4,706,776, Cl. 180-334.000.
Ishii, Yugoro; Onozawa, Motohisa; and Katamine, Akihiko, 4,712,428, Cl. 73-644.000.
Ishino, Tsutomu; Omatsu, Hideo; Shiraishi, Takao; and Kawakami, Hideaki, 4,699,239, Cl. 180-315.000.
Ishizaki, Naoki; Nunotani, Sadao; Tada, Tatsumi; Uehara, Kazuo; and Akushichi, Shuki, 4,646,622, Cl. 91-446.000.
Kamide, Takao; Ueda, Norio; and Nemoto, Akira, 4,634,332, Cl. 414-273.000.
Karakama, Tadao, 4,633,666, Cl. 60-421.000.
Kitada, Tomowo, 4,638,779, Cl. 123-385.000.
Kizawa, Horofumi, 4,677,953, Cl. 123-450.000.
Kodama, Kazuo; and Morikawa, Keishi, 4,679,973, Cl. 409-200.000.
Kusaka, Kohei; Ichimura, Masaaki; and Anami, Yuuichi, 4,649,768, Cl. 74-484.00R.
Kusaka, Kohei, 4,660,696, Cl. 192-4.00A.
Maeda, Fujio, 4,658,705, Cl. 91-518.000.
Maeda, Fujio, 4,709,594, Cl. 74-753.000.
Maruyama, Ryoichi; and Kikuchi, Teruyoshi, 4,663,987, Cl. 74-687.000.
Matsuda, Yukinobu; and Inui, Takayasu, 4,640,245, Cl. 123-339.000.
Miki, Toshiyuki; Tomioka, Kunio; Sakurai, Terushige; and Nakajima, Masao, 4,653,367, Cl. 83-156.000.
Miki, Toshiyuki; Tomioka, Kunio; Nakajima, Masao; and Sakurai, Terushige, 4,681,210, Cl. 198-468.200.
Mizukami, Hiroyuki, 4,699,861, Cl. 430-64.000.
Mizumoto, Masakatsu; and Umano, Yasuhiro, 4,654,569, Cl. 318-568.000.
Nagatomo, Masatsugu, 4,686,782, Cl. 37-103.000.
Nozue, Yasuhiro; Kajiyama, Koichi; and Sajiki, Kazuaki, 4,691,322, Cl. 372-82.000.
Sakurai, Terushige, 4,648,786, Cl. 414-752.000.
Sato, Kanichi; Setoyama, Mikio; Kiguchi, Shoji; and Tanaka, Toshio, 4,638,845, Cl. 164-12.000.
Seki, Seiji; and Aoshima, Kiyoji, 4,635,466, Cl. 72-453.130.
Shintani, Fumio, 4,691,792, Cl. 177-1.000.
Suketomo, Toshitaka; and Nezuka, Kenjiro, 4,704,922, Cl. 74-733.000.
Suzuki, Masami, 4,655,097, Cl. 74-53.000.
Tamaki, Hiroaki; and Nakamura, Joji, 4,637,758, Cl. 405-248.00
Tomita, Yoshikazu, 4,656,857, Cl. 72-131.000.
Tsukiji, Yoshihiro; and Maeda, Haruo, 4,664,570, Cl. 409-84.00
Urata, Chieo; and Suzuki, Yasuo, 4,653,310, Cl. 72-407.000.
Wakasa, Satoshi; and Okazaki, Toru, 4,712,985, Cl. 417-486.00
Watanabe, Kimichiro; Horiai, Kunio; Mashiko, Tomoyuki; Kato, Hitoshi; Yamaguchi, Hiromasa; and Nishiyama, Toshihiko 4,679,992, Cl. 417-364.000.
Watanabe, Yuji; and Kato, Kozo, 4,644,583, Cl. 382-22.000.
Yajima, Toshio, 4,641,828, Cl. 271-227.000.
Yato, Tokuhiro; and Tsutsumi, Yoshio, 4,644,334, Cl. 340-679.00
Yoshida, Daisuke; Tanno, Tomiya; and Fukunaga, Takeshi 4,672,811, Cl. 60-449.000.
Yoshida, Kazuhiro, 4,694,647, Cl. 60-442.000.
Yoshida, Toshiyuki; and Arai, Mitsuru, 4,712,377, Cl. 60-444.00
Yoshimitsu, Toshio, 4,706,616, Cl. 123-41.840.

Kabushiki Kaisha Kosumo Keiki: *See—*
Furuse, Akio, 4,686,638, Cl. 364-558.000.
Furuse, Kiyoshi, 4,670,847, Cl. 364-507.000.
Furuse, Kiyoshi, 4,675,834, Cl. 364-558.000.

Kabushiki Kaisha Kotobuki: *See—*
Suzuki, Fumihiko, 4,702,043, Cl. 52-9.000.

Kabushiki Kaisha Kuboto Tekkojo: *See—*
Wanibuchi, Hiroshi; and Kubota, Akira, 4,638,704, Cl. 83-62

Kabushiki Kaisha Kumalift Gijutsu Kenkyusho: *See—*
Nobuhara, Uichi, 4,662,810, Cl. 414-396.000.
Nobuhara, Uichi, 4,690,611, Cl. 414-661.000.

Kabushiki Kaisha Kyoritsu Yuki Kogyo Kenkyusho: *See—*
Mochizuki, Tadao; Nakajima, Akira; and Fukushima, Re 4,696,740, Cl. 210-151.000.

Kabushiki Kaisha Kyoto Daiichi Kagaku: *See—*
Hyodo, Hiroshi; Yamada, Naoki; Iwase, Kenichi; and Kishim Shinichi, 4,697,925, Cl. 356-339.000.
Yamamoto, Hiroshi, 4,685,059, Cl. 364-415.000.

Kabushiki Kaisha Machida Seisakusho: *See—*
Chikama, Toshio, 4,710,807, Cl. 358-98.000.
Iwashita, Yoshiyuki, 4,655,257, Cl. 138-120.000.
Miyagi, Kunihiko, 4,706,657, Cl. 128-6.000.

Kabushiki Kaisha Matsuyama Seisakusho: *See—*
Kimura, Sakae; and Tanaka, Yasuhiro, 4,693,571, Cl. 350-634

Kabushiki Kaisha Medos Kenkyusho: *See—*
Ouchi, Teruo; and Shibuya, Hiromichi, 4,690,175, Cl. 138-131

Kabushiki Kaisha Meidensha: *See—*
Ando, Yasuo, 4,652,504, Cl. 429-105.000.
Hashimoto, Takafumi; Kamanaka, Yoshihide; and Ashikaga, Takashi, 4,691,158, Cl. 320-14.000.
Hayashi, Yasuhide; and Kawamura, Takayasu, 4,651,188, Cl 357-38.000.
Kashiwagi, Yoshiyuki; Noda, Yasushi; and Kitakizaki, Kao 4,640,999, Cl. 200-144.00B.
Kashiwagi, Yoshiyuki; Noda, Yasushi; and Kitakizaki, Ka 4,659,885, Cl. 200-144.00B.
Kashiwagi, Yoshiyuki; Noda, Yasushi; and Kitakizaki, Ka 4,686,338, Cl. 200-264.000.
Kawamura, Takayasu; and Hayashi, Yasuhide, 4,667,215, C 357-38.000.
Nogi, Teiji; and Gondo, Toyomi, 4,680,663, Cl. 361-2.000.
Ogawa, Hiroshi; Miyazaki, Yasuyuki; and Yoshida, Susum 4,665,487, Cl. 364-424.000.
Ogawa, Hiroshi; Miyazaki, Yasuyuki; Yoshida, Susumu; and Sasak Shinichi, 4,716,530, Cl. 364-424.000.
Ohno, Junichi, 4,676,224, Cl. 126-343.50R.
Sakuma, Shinzo; Tamaki, Nobuaki; and Kawakami, Hide 4,661,666, Cl. 200-144.00B.
Suzuki, Tetsuji; Yoshida, Susumu; Ogawa, Hiroshi; and Miyazak Yasuyuki, 4,665,489, Cl. 364-424.000.
Tamaki, Nobuaki; Sakuma, Shinzo; Fukai, Toshimasa; an Takihana, Masatoshi, 4,707,577, Cl. 200-144.00B.

Kabushiki Kaisha Meiji Gomu Kasei: *See—*
Sejimo, Akinobu; and Ono, Shigeo, 4,702,867, Cl. 264-25.00

Kabushiki Kaisha Mihama Seisakusho: *See—*
Matsuno, Yutaka; Kumagai, Tadanobu; and Tanaka, Hatsuy 4,701,982, Cl. 24-273.000.

Kabushiki Kaisha Mitaka Kogyosho: *See—*
Miyata, Toshio, 4,702,833, Cl. 210-333.010.

Kabushiki Kaisha Mitsui Miike Seisakusho: *See—*
Sato, Koji; Kuroda, Hiroshi; Yamada, Ryuji; and Serino, Mamo 4,715,657, Cl. 299-1.000.

Kabushiki Kaisha Morita Seisakusho: *See—*
Hayashi, Kazuo, 4,647,108, Cl. 297-391.000.
Makino, Takao; and Osada, Shinichi, 4,641,331, Cl. 378-108.00
Nishikawa, Kazuo, 4,658,669, Cl. 74-531.000.
Nishikawa, Kazuo, 4,661,967, Cl. 378-39.000.
Sudo, Michio; Hotta, Toshihiro; and Imazato, Minoru, 4,665, Cl. 310-68.00R.

Kabushiki Kaisha Murakoshi Seiko: *See—*
Harashima, Eiichi, 4,697,778, Cl. 248-349.000.
Mazaki, Yoshiyuki, 4,639,161, Cl. 403-245.000.
Mazaki, Yoshiyuki, 4,708,410, Cl. 312-138.00R.

- Kabushiki Kaisha Nagano Keiki Seisakusho: *See—*
  - Shioiri, Hisanori; Kiuchi, Mitsuhiro; Takayama, Mineo; Homma, Toshio; Nagasaka, Hiroshi; and Kaneko, Yoshikazu, 4,657,775, Cl. 427-38.000.
- Kabushiki Kaisha Nagaoka: *See—*
  - Uro, Masatoshi, 4,639,813, Cl. 360-128.000.
- Kabushiki Kaisha Naka Gijutsu Kenkyusho: *See—*
  - Naka, Hiromitsu; Miyashiro, Takeshi; and Sugimoto, Yoshihide, 4,646,490, Cl. 52-184.000.
- Kabushiki Kaisha Nakajima Tekkosho: *See—*
  - Nakajima, Shigemi, 4,715,631, Cl. 294-2.000.
- Kabushiki Kaisha Nice Shot: *See—*
  - Wakisaka, Yoshiki, 4,666,156, Cl. 273-32.00H.
- Kabushiki Kaisha Nichibei: *See—*
  - Ishii, Kaname, 4,662,423, Cl. 160-293.00R.
- Kabushiki Kaisha Nippei Toyama: *See—*
  - Shochi, Toshiyuki; and Nakajima, Kenei, 4,673,173, Cl. 269-32.000.
- Kabushiki Kaisha Nippon Kanko Shikiso Kenkyusho: *See—*
  - Yasui, Shigeo; Ono, Masashi; Kobayashi, Seiko; Senzai, Shigeo; and Uchida, Tatsuo, 4,676,923, Cl. 252-299.100.
- Kabushiki Kaisha Nipponcoinco: *See—*
  - Hayashi, Yukichi; Itako, Eiji; and Yasuhara, Masahiro, 4,679,150, Cl. 364-479.000.
  - Mikami, Mitsugu; Yukimoto, Kougi; and Ishii, Jun, 4,706,795, Cl. 194-317.000.
- Kabushiki Kaisha (NKB Corportion): *See—*
  - Taki, Hisao, 4,677,570, Cl. 364-518.000.
- Kabushiki Kaisha Ochiai Tekkojo: *See—*
  - Naito, Tadashi; Okuda, Kenzo; Ohmori, Masakazu; Saijyo, Toru; and Imaizumi, Ken, 4,700,309, Cl. 364-468.000.
- Kabushiki Kaisha Ohmori Seisakusho: *See—*
  - Ohmori, Hatsutaro, 4,634,074, Cl. 242-84.21R.
- Kabushiki Kaisha Okawaraseisakusho: *See—*
  - Shibata, Takeo; and Nagasawa, Kazumasa, 4,698,190, Cl. 264-40.200.
- Kabushiki Kaisha Ono Sokki: *See—*
  - Maehara, Osamu; and Nakajima, Yoshitaka, 4,650,996, Cl. 250-231.0SE.
- Kabushiki Kaisha Osaka Jidoki Seisakusho: *See—*
  - Nomura, Kohei, 4,708,233, Cl. 198-397.000.
- Kabushiki Kaisha Osaka Packing Seizosho: *See—*
  - Takahashi, Akira; Shibahara, Kazuo; Morimoto, Katsuhiro; Samma, Hiromasa; and Kubo, Kazuhiko, 4,647,499, Cl. 428-312.600.
- Kabushiki Kaisha Plastic Kogaku Kenkyusho: *See—*
  - Murakami, Kenkichi, 4,669,965, Cl. 425-133.500.
- Kabushiki Kaisha Ricoh: *See—*
  - Sue, Takaji, 4,677,494, Cl. 358-285.000.
- Kabushiki Kaisha Riken: *See—*
  - Kobayashi, Daisaku; Itaba, Tunesaku; and Momose, Yutaka, 4,691,591, Cl. 74-606.00A.
  - Kobayashi, Daisaku; Itaba, Tunesaku; and Momose, Yutaka, 4,694,707, Cl. 74-606.00A.
  - Shinada, Manabu, 4,681,817, Cl. 428-549.000.
- Kabushiki Kaisha S.K.K.: *See—*
  - Morita, Shigeru; and Sugaya, Yukio, 4,709,222, Cl. 337-273.000.
- Kabushiki Kaisha Saginomiya Seisakusho: *See—*
  - Aoki, Tadashi; Isobe, Masakazu; and Kuno, Hiroshi, 4,644,760, Cl. 62-324.600.
- Kabushiki Kaisha Saikousha: *See—*
  - Sakai, Tadashi, 4,665,724, Cl. 70-30.000.
- Kabushiki Kaisha Sakai Tokushu Camera Seisakusho: *See—*
  - Nishi, Masahiro, 4,662,734, Cl. 354-187.000.
- Kabushiki Kaisha Sangi: *See—*
  - Sakuma, Shuji; and Fujinawa, Hirotaka, 4,691,718, Cl. 132-84.00R.
- Kabushiki Kaisha Sankodo: *See—*
  - Kobayashi, Hiroshi, 4,679,671, Cl. 190-115.000.
- Kabushiki Kaisha Sankosha: *See—*
  - Igarashi, Yoshio, 4,644,441, Cl. 361-120.000.
- Kabushiki Kaisha Sankyo Seiki Seisakusho: *See—*
  - Fujishige, Sadao, 4,669,007, Cl. 360-97.000.
  - Kasuga, Ikuo, 4,664,476, Cl. 350-252.000.
  - Kitazawa, Yasuhide; Shibagaki, Mikio; and Usui, Motonori, 4,676,135, Cl. 84-94.00R.
  - Kobayashi, Toshiji; and Matsumoto, Katsumi, 4,639,628, Cl. 310-194.000.
  - Komatsu, Fumito; Toyama, Akiyoshi; Oguchi, Yuzo; and Iwanami, Kiyoharu, 4,648,001, Cl. 360-133.000.
  - Miyazaki, Kiyoshi; Ito, Jinichi; and Naito, Hayato, 4,658,190, Cl. 318-254.000.
  - Orii, Makoto; and Hayashi, Katsuhiko, 4,702,350, Cl. 185-39.000.
  - Tsuneda, Haruhiro; and Yoshimura, Yasuzumi, 4,677,356, Cl. 318-258.000.
  - Umino, Kunio, 4,698,705, Cl. 360-92.000.
  - Yasukawa, Kazuyoshi, 4,637,771, Cl. 414-590.000.
  - Yasukawa, Kazuyoshi, 4,706,515, Cl. 74-479.000.
  - Yoshikawa, Shinichi; Nishiwaki, Shigeru; and Shimodaira, Toshiro, 4,644,239, Cl. 318-641.000.
- Kabushiki Kaisha Sato: *See—*
  - Kashiwaba, Tadao, 4,680,083, Cl. 156-510.000.
  - Kashiwaba, Tadao, 4,709,868, Cl. 242-56.00R.
  - Kikuchi, Hidenori, 4,712,114, Cl. 346-76.0PH.
  - Ohta, Masataka, 4,687,912, Cl. 235-463.000.
  - Ono, Tsutomu; and Kashiwaba, Tadao, 4,706,095, Cl. 346-76.0PH.
  - Sato, Yo, 4,647,235, Cl. 400-120.000.
  - Sato, Yo, 4,706,096, Cl. 346-76.0PH.
  - Sato, Yoshio, 4,642,256, Cl. 428-42.000.
  - Yokota, Yuuji; and Karuishi, Kazuhiro, 4,669,896, Cl. 400-120.000.
- Kabushiki Kaisha Saura Keiki Seisakusho: *See—*
  - Watanabe, Yoshiteru, 4,634,978, Cl. 324-253.000.
- Kabushiki Kaisha Seiko Epson: *See—*
  - Hoshikawa, Jun; and Iwashita, Yukihiro, 4,640,583, Cl. 350-343.000.
  - Nagai, Akio, 4,652,159, Cl. 400-322.000.
  - Oguchi, Kikuo; and Uchikawa, Yoshiro, 4,640,582, Cl. 350-333.000.
- Kabushiki Kaisha Sensor Gijutsu Kenkyujo: *See—*
  - Koyama, Ario, 4,638,146, Cl. 219-147.000.
- Kabushiki Kaisha SG: *See—*
  - Ichikawa, Wataru; Matsuki, Yuji; Hirata, Yoshiaki; and Ito, Mikiya, 4,695,235, Cl. 425-29.000.
  - Shimizu, Wataru; and Yuasa, Yasuhiro, 4,651,073, Cl. 318-632.000.
- Kabushiki Kaisha - Sharp: *See—*
  - Nakanishi, Yasuhiro; and Sumitani, Toshihiko, 4,654,822, Cl. 364-900.000.
- Kabushiki Kaisha Shashin Kogyo: *See—*
  - Kitai, Makoto; and Omori, Takashi, 4,655,583, Cl. 355-29.000.
  - Kitai, Makoto; and Omori, Takashi, 4,674,867, Cl. 355-78.000.
- Kabushiki Kaisha Shibakawa Seisakusho: *See—*
  - Nishimura, Tatsuo; and Tamura, Tatsuya, 4,676,090, Cl. 72-404.000.
- Kabushiki Kaisha Shinsangyokaihatsu: *See—*
  - Sumiya, Koji; and Moroto, Shuzo, 4,712,635, Cl. 180-197.000.
- Kabushiki Kaisha Shinsei Industries: *See—*
  - Sato, Junichi, 4,699,685, Cl. 156-384.000.
- Kabushiki Kaisha Showa Seisakusho: *See—*
  - Hayashi, Yasuyuki; Sadaka, Naoyuki; Murata, Shigeru; and Kawahara, Shuichi, 4,667,941, Cl. 267-64.160.
  - Negishi, Yoshio, 4,700,093, Cl. 310-89.000.
  - Suzuki, Hideo; Okamoto, Kunihide; Hayashi, Yasuyuki; and Aiba, Mitsuru, 4,709,934, Cl. 280-6.00R.
- Kabushiki Kaisha SK: *See—*
  - Kobayasi, Soichi, 4,635,386, Cl. 37-117.500.
- Kabushiki Kaisha Sunpak: *See—*
  - Kamon, Akio; and Odaka, Yukio, 4,634,933, Cl. 315-151.000.
- Kabushiki Kaisha Swallow Ski: *See—*
  - Maruyama, Tetsuzo, 4,681,725, Cl. 264-46.500.
- Kabushiki Kaisha T an T: *See—*
  - Takano, Tsunesuke, 4,672,352, Cl. 337-264.000.
- Kabushiki Kaisha Takara: *See—*
  - Tsuda, Masaaki, 4,711,064, Cl. 53-137.000.
- Kabushiki Kaisha Takehara Kikai Kenkyusho: *See—*
  - Takehara, Katsuomi, 4,688,455, Cl. 83-175.000.
- Kabushiki Kaisha Takuma: *See—*
  - Uno, Kunihiko; Nakazato, Kunihiro; Nishigaki, Masahide; Hirotomi, Hajime; Kimura, Shigeo; Kurihara, Sadao; Tanaka, Hideo; Mihara, Jiro; and Takai, Kiyoaki, 4,639,927, Cl. 373-84.000.
  - Uno, Kunihiko; Tamade, Yoshinori; Horino, Seiya; and Kodera, Tamotsu, 4,712,741, Cl. 241-16.000.
- Kabushiki Kaisha Tamura Seisakusho: *See—*
  - Abe, Nobuhide; Adachi, Minoru; Ito, Makoto; and Uchida, Toshiya, 4,698,774, Cl. 364-477.000.
  - Masuda, Tsugunori; and Muto, Shoji, 4,682,563, Cl. 118-503.000.
- Kabushiki Kaisha Tatebe Seishudo: *See—*
  - Koro, Tsuneo, 4,653,022, Cl. 364-900.000.
- Kabushiki Kaisha Toka-rika-denki-seisakusho: *See—*
  - Asagiri, Katsuki; and Kawaharazaki, Takashi, 4,664,334, Cl. 242-107.000.
  - Inada, Yasuo; Sato, Koki; Fujii, Takazo; Yokoyama, Hideo; Takahashi, Shoichi; Mizutani, Kiyoshi; Kawashima, Takayoshi; and Nagawa, Akira, 4,664,333, Cl. 242-107.40A.
  - Ishiguro, Kazuyoshi, 4,660,260, Cl. 24-637.000.
  - Izuchi, Shingo; Tamura, Keiichi; and Mori, Shinji, 4,667,894, Cl. 242-107.40A.
- Kabushiki Kaisha Tokai: *See—*
  - Suzuki, Akira; Mizuta, Yukio; Sato, Rejiro; and Shimizu, Kunio, 4,688,156, Cl. 362-354.000.
- Kabushiki Kaisha Tokai Rika Denki Seisakusha: *See—*
  - Suzuki, Masaru, 4,634,835, Cl. 219-219.000.
- Kabushiki Kaisha Tokai Rika Denki Seisakusho: *See—*
  - Baba, Takeshi; Iwasa, Hiroki; Nagasaka, Chikao; and Ohmi, Kyozo, 4,645,299, Cl. 350-99.000.
  - Fukuyama, Takahiko; Hori, Seiji; Ota, Yoshihiro; and Hayashi, Yoshikazu, 4,692,573, Cl. 200-50.00C.
  - Furuhashi, Kenshi; Ito, Hiroyasu; and Fukao, Kouichi, 4,647,736, Cl. 200-61.270.
  - Haba, Shinji, 4,715,698, Cl. 350-588.000.
  - Hamada, Hideki; and Shimizu, Tsutomu, 4,645,232, Cl. 280-801.000.
  - Hattori, Masaichi; Hanaki, Akira; and Kihira, Kouichi, 4,633,908, Cl. 137-637.100.
  - Hayashi, Kazuhiko; Iwata, Masayosi; Tada, Mikio; and Mizuno, Hirotoshi, 4,659,882, Cl. 200-16.00R.
  - Ishiguro, Kazuyoshi; and Araki, Hidemoto, 4,642,858, Cl. 24-641.000.
  - Ishiguro, Kazuyoshi, 4,670,952, Cl. 24-641.000.
  - Iwamoto, Tadashi; Ikeda, Toshiki; Yukitomo, Kazuo; Hattori, Masaichi; Arakawa, Kaneyasu; Kihira, Koichi; and Hanaki, Akira, 4,683,403, Cl. 315-83.000.
  - Katsuno, Mitsuaki; Gyoda, Toshio; Tanaka, Hideki; Huramoto, Kunihiro; Yoshitsugu, Noritada; and Matsui, Kenji, 4,682,790, Cl. 280-801.000.
  - Koide, Teruhiko, 4,645,234, Cl. 280-808.000.
  - Koide, Teruhiko, 4,667,981, Cl. 280-806.000.

Kokubu, Sadao, 4,691,201, Cl. 340-825.310.
Kubota, Kazuhisa; and Yasuda, Shigekazu, 4,681,435, Cl. 356-71.000.
Minami, Katsuhiro; Iwata, Hitoshi; and Kinoshita, Kenichi, 4,698,552, Cl. 315-82.000.
Mizuno, Shigeo; Kubota, Kazuhisa; and Ichikawa, Takafumi, 4,674,352, Cl. 74-484.00R.
Mori, Shinji, 4,687,156, Cl. 242-107.40A.
Mori, Shinji, 4,711,408, Cl. 242-107.000.
Morita, Masayuki; and Hattori, Masaichi, 4,679,453, Cl. 74-128.000.
Nagasaka, Chikao; Kato, Hiroyuki; Ohno, Hirofumi; and Irifune, Shinichi, 4,655,546, Cl. 350-99.000.
Nakaho, Junichi; Kato, Shigeru; and Shibahara, Makoto, 4,693,558, Cl. 350-332.000.
Nakano, Tasuku; Kouno, Kazuo; Hibino, Kazunari; and Sakurai, Masashi, 4,708,365, Cl. 280-801.000.
Nishimura, Yuji; and Koide, Teruhiko, 4,637,630, Cl. 280-807.000.
Nishimura, Yuji; and Kanada, Shigeyasu, 4,669,680, Cl. 242-107.000.
Nishimura, Yuji; and Kawaharazaki, Takashi, 4,676,444, Cl. 242-54.00R.
Nishimura, Yuji; Fujiwara, Akinori; and Kanada, Shigeyasu, 4,678,928, Cl. 307-10.0SB.
Suzuki, Masaru, 4,636,045, Cl. 350-606.000.
Suzuki, Masaru, 4,636,598, Cl. 200-83.00N.
Suzuki, Masaru, 4,657,362, Cl. 250-637.000.
Suzuki, Masaru; Tsujiuchi, Yoshio; Ogawa, Akira; and Usami, Tadashi, 4,660,944, Cl. 350-635.000.
Takeda, Nobuhiro; and Hattori, Masaichi, 4,649,286, Cl. 307-10.00R.
Tamura, Keiichi; Nishimura, Yuji; and Kawaharazaki, Takashi, 4,681,347, Cl. 280-804.000.
Tamura, Keiichi, 4,706,993, Cl. 280-808.000.
Tanaka, Kohbun, 4,646,400, Cl. 24-632.000.
Tsuge, Hiroshi; Fujiwara, Akinori; and Yoshitsugu, Noritada, 4,685,741, Cl. 297-467.000.
Tsuge, Hiroshi; Fujiwara, Akinori; Yoshitsugu, Noritada; and Sugiura, Motonobu, 4,688,849, Cl. 297-250.000.
Yasuda, Shigekazu, 4,676,638, Cl. 356-237.000.
Kabushiki Kaisha Tokiwaseisakusho: *See—*
Sakamaki, Hiroshi; Sugishita, Susumu; Horikoshi, Yukio; Okamura, Hiroshi; and Shimizu, Kenji, 4,649,612, Cl. 29-156.40R.
Kabushiki Kaisha Tokuda Seisakusho: *See—*
Hazano, Shigeki; Shibagaki, Masahiro; Jyo, Hidetaka; Sensui, Reiichiro; Iwami, Munenori; and Suzuki, Noboru, 4,693,777, Cl. 156-345.000.
Ooshio, Hirosuke; and Watanabe, Osamu, 4,645,218, Cl. 279-1.00M.
Kabushiki Kaisha Tokyo Fashion: *See—*
Kudo, Kazunori, 4,654,894, Cl. 2-67.000.
Kabushiki Kaisha Tokyo Horaisha: *See—*
Higashiguchi, Shigehiko, 4,687,527, Cl. 156-72.000.
Kabushiki Kaisha Tokyo Keiki: *See—*
Konno, Masashi; Hojo, Takeshi; and Sato, Kazuteru, 4,703,655, Cl. 73-505.000.
Kabushiki Kaisha Tokyo Kikai Seisakusho: *See—*
Fujishiro, Yuji, 4,671,501, Cl. 270-21.100.
Kawata, Tomoshi; and Kusunoki, Kenji, 4,651,641, Cl. 101-217.000.
Kabushiki Kaisha Tominaga Jyushi Kogyosho: *See—*
Tominaga, Kazutoshi, 4,677,938, Cl. 119-29.000.
Kabushiki Kaisha Toshiba: *See—*
Abiko, Takashi, 4,688,205, Cl. 369-59.000.
Abuyama, Yasuo, 4,674,862, Cl. 355-14.0SH.
Abuyama, Yasuo, 4,678,316, Cl. 355-14.00C.
Abuyama, Yasuo, 4,711,556, Cl. 355-14.00R.
Akaeda, Tadayoshi; Yamamoto, Yuko; and Kanaoka, Katsuki, 4,646,102, Cl. 343-915.000.
Akai, Yoshimi, 4,694,177, Cl. 250-368.000.
Akiyama, Junichi; Chiba, Shu; Sawazaki, Norikazu; and Yatabe, Shigeru, 4,677,512, Cl. 360-110.000.
Amano, Masao, 4,653,384, Cl. 98-40.300.
Ando, Hideo; and Doi, Akihiko, 4,641,023, Cl. 250-216.000.
Ando, Hideo, 4,654,515, Cl. 250-201.0DF.
Ando, Hideo, 4,654,516, Cl. 250-201.000.
Ando, Hideo, 4,654,519, Cl. 250-216.000.
Ando, Hideo, 4,656,348, Cl. 250-201.000.
Ando, Hideo, 4,665,512, Cl. 369-44.000.
Ando, Hideo; and Doi, Akihiko, 4,684,797, Cl. 250-201.000.
Ando, Hideo, 4,689,781, Cl. 369-112.000.
Ando, Hideo, 4,694,443, Cl. 369-46.000.
Ando, Hideo, 4,701,604, Cl. 250-201.000.
Ando, Hideo, 4,716,283, Cl. 250-201.000.
Anno, Hidero, 4,651,002, Cl. 250-336.100.
Aoki, Hidehiko, 4,654,602, Cl. 330-257.000.
Aoki, Hiroyuki, 4,655,622, Cl. 400-121.000.
Aoki, Hiroyuki, 4,712,185, Cl. 364-518.000.
Aoki, Masayuki, 4,638,135, Cl. 219-10.49R.
Aoshima, Terutaka; Asahi, Morio; Imai, Masahiro; and Narita, Ryuuho, 4,687,910, Cl. 219-506.000.
Ariizumi, Shoji; and Segawa, Makoto, 4,673,969, Cl. 357-71.000.
Arima, Takahisa; Ninomiya, Susumu; Horikawa, Yuji; and Aoki, Tadasi, 4,708,372, Cl. 285-150.000.
Arimitsu, Hiroshi; Hatano, Kiyoshi; Nakanishi, Teruyuki; Yoshimura, Yoshio; Urabe, Masaki; and Honda, Tsurakazu, 4,697,179, Cl. 340-825.720.
Asahi, Morio; Aoshima, Terutaka; Narita, Ryuuho; and Imai, Masahiro, 4,644,137, Cl. 219-497.000.
Asahina, Hiroshi; and Ogura, Ichiro, 4,674,108, Cl. 378-99.000.
Ashizawa, Yasuo; and Sugiyama, Naoharu, 4,664,063, Cl. 118-724.000.
Bandai, Yoshiaki, 4,706,213, Cl. 364-900.000.
Banno, Haruhiko; and Dewa, Koichi, 4,644,418, Cl. 360-39.000.
Banno, Haruhiko; and Yatagai, Shigeo, 4,710,771, Cl. 340-811.000.
Chiyoma, Hitoshi; Watanabe, Zensaku; and Nakagawa, Masahiro, 4,679,088, Cl. 358-213.180.
Ebata, Yasuo, 4,635,009, Cl. 333-195.000.
Egawa, Hideharu; and Okumura, Katsuya, 4,678,114, Cl. 228-176.000.
Ema, Takehiro, 4,688,242, Cl. 378-154.000.
Enda, Masami; Fujita, Reiko; Morisue, Tetsuo; and Hasegawa, Yutaka, 4,663,085, Cl. 252-626.000.
Endo, Yukio; Harada, Nozomu; and Yoshida, Okio, 4,652,928, Cl. 358-213.000.
Endo, Yukio; Harada, Nozomu; and Yoshida, Okio, 4,698,686, Cl. 358-213.180.
Enokizono, Takatoshi, 4,710,869, Cl. 364-200.000.
Fujiki, Yutaka, 4,698,506, Cl. 250-363.00S.
Fujita, Reiko; and Enda, Masami, 4,701,246, Cl. 204-130.000.
Fujiwara, Shigemi; Koyama, Katsuhide; and Kageyama, Hiroshi, 4,659,929, Cl. 250-327.200.
Fujiwara, Shigemi; Koyama, Katsuhide; and Kageyama, Hiroshi, 4,663,528, Cl. 250-327.200.
Fujiwara, Shigemi; Koyama, Katsuhide; and Kageyama, Hiroshi, 4,672,184, Cl. 235-462.000.
Fujiwara, Takayoshi, 4,667,387, Cl. 29-157.00R.
Fukuda, Kumio; and Shimoma, Taketoshi, 4,656,390, Cl. 313-409.000.
Fukuda, Norisuke; Sasaki, Yasuhito; and Watanabe, Fumio, 4,671,458, Cl. 236-49.000.
Fukuoka, Yoshitaka, 4,639,830, Cl. 361-411.000.
Fukushima, Eiji; Tanaka, Minoru; Sanada, Kazuo; and Chigira, Sadao, 4,707,075, Cl. 350-96.260.
Fukushima, Noburu; Yoshino, Hisashi; and Nomura, Shunji, 4,642,136, Cl. 75-234.000.
Fukushima, Toshiki; Endo, Yorimasa; and Nishiyama, Osamu, 4,652,419, Cl. 376-254.000.
Furuyama, Hideto; and Hirayama, Yuzo, 4,676,863, Cl. 156-626.000.
Furuyama, Tohru; and Ohsawa, Takashi, 4,686,456, Cl. 324-73.00R.
Gokita, Masami, 4,651,222, Cl. 358-264.000.
Gokita, Masami, 4,668,978, Cl. 358-78.000.
Gotou, Mineo; and Wada, Hirotsugu, 4,636,968, Cl. 364-559.000.
Hagino, Hideyuki, 4,667,242, Cl. 358-174.000.
Haji, Yasutaka, 4,644,187, Cl. 307-303.000.
Hanawa, Masatoshi, 4,665,364, Cl. 324-309.000.
Hanawa, Masatoshi; and Hayakawa, Hiroshi, 4,675,608, Cl. 324-314.000.
Hara, Hiroyuki; Nakamura, Michinori; and Sugimoto, Yasuhiro, 4,695,750, Cl. 307-475.000.
Harada, Kentaro; and Watanabe, Junji, 4,707,110, Cl. 355-7.000.
Harada, Nozomu; and Yoshida, Okio, 4,651,001, Cl. 250-330.000.
Harada, Yutaka, 4,709,788, Cl. 187-124.000.
Haragashira, Motoji, 4,691,164, Cl. 324-322.000.
Hasegawa, Akira, 4,667,251, Cl. 358-283.000.
Hasegawa, Iwao, 4,707,853, Cl. 379-221.000.
Hashimoto, Kazuhiko, 4,691,123, Cl. 307-296.00R.
Hashimoto, Minoru; Takeuchi, Hajime; and Itoh, Takeo, 4,695,513, Cl. 428-425.900.
Hashimoto, Yasuichi, 4,636,883, Cl. 360-78.000.
Hatanaka, Shigeyuki, 4,662,410, Cl. 141-65.000.
Hattori, Masakatsu; and Fujiki, Masao, 4,636,884, Cl. 360-78.000.
Hattori, Toshiaki; and Shimanuki, Machio, 4,706,142, Cl. 360-105.000.
Hattori, Yoshihisa; and Inoue, Nobuo, 4,639,771, Cl. 358-80.000.
Hayano, Makoto; Nagatomo, Shigemi; Sakata, Hirotsugu; Hatori, Mitsuo; and Hattori, Hitoshi, 4,673,339, Cl. 418-15.000.
Hayano, Makoto; Nagatomo, Shigemi; Sakata, Hirotsugu; Hatori, Mitsuo; and Hattori, Hitoshi, 4,708,607, Cl. 418-55.000.
Hayasaka, Nobuo; Okano, Haruo; and Horiike, Yasuhiro, 4,693,228, Cl. 427-53.100.
Hayashi, Yasuhiro; Maeda, Satoru; and Kojima, Tadashi, 4,689,779, Cl. 369-44.000.
Hayashida, Masatoshi; Suga, Takayuki; and Yamanaka, Hiroshi, 4,650,310, Cl. 355-3.0DD.
Hayashimoto, Yoshiaki; Tanuma, Chiaki; Yokoyama, Katsunori; and Harada, Nozomu, 4,634,884, Cl. 250-578.000.
Hazano, Shigeki; Shibagaki, Masahiro; Jyo, Hidetaka; Sensui, Reiichiro; Iwami, Munenori; and Suzuki, Noboru, 4,693,777, Cl. 156-345.000.
Hazuki, Yoshikazu, 4,670,967, Cl. 29-576.00B.
Hidaka, Kazutaka; and Sawada, Hisashi, 4,686,537, Cl. 343-786.000.
Higa, Osamu, 4,698,736, Cl. 363-51.000.
Higashino, Hiroyuki; and Ohkawa, Hideki, 4,696,721, Cl. 204-3.000.
Higuchi, Itsuo, 4,676,072, Cl. 62-175.000.
Hino, Masaaki, 4,654,597, Cl. 324-322.000.
Hirahara, Shuzo; Yamada, Kiyoshi; Higuchi, Kazuhiko; and Saito, Tsutomu, 4,692,812, Cl. 358-285.000.
Hirai, Kenji; and Torizuka, Hideki, 4,648,129, Cl. 455-317.000.
Hirai, Kenji; and Kimura, Yoshinori, 4,688,004, Cl. 331-49.000.
Hirakawa, Shuji, 4,635,100, Cl. 358-19.000.
Hirata, Akio, 4,654,572, Cl. 318-722.000.
Hirata, Hidetoshi, 4,713,528, Cl. 219-492.000.
Hirata, Shigeaki, 4,700,387, Cl. 380-20.000.

Hiroi, Kazuo; and Ito, Kojiro, 4,698,745, Cl. 364-165.000.
Hiroi, Kazuo; and Ito, Kojiro, 4,714,988, Cl. 364-165.000.
Hirokawa, Katsuhisa, 4,672,182, Cl. 235-436.000.
Hirose, Kunihiko, 4,663,638, Cl. 346-136.000.
Hirose, Masataka; Ueno, Tsuyoshi; and Suzuki, Katsumi, 4,633,809, Cl. 118-719.000.
Hiruta, Yoichi, 4,713,356, Cl. 437-41.000.
Hiyama, Satoshi, 4,647,840, Cl. 323-315.000.
Honda, Toshio; Ohhashi, Toshiro; and Ohtsubo, Yasuo, 4,715,247, Cl. 74-640.000.
Hopkinson, James F.; and Nambu, Kyojiro, 4,707,822, Cl. 364-414.000.
Horiguchi, Fumio, 4,641,280, Cl. 365-183.000.
Hosokawa, Yorio; and Sakamoto, Shotaka, 4,672,279, Cl. 318-568.000.
Hosoya, Masahiro; Uehara, Tsutomu; and Tomura, Shinya, 4,656,965, Cl. 118-649.000.
Hughes, Simon H. C., 4,682,111, Cl. 324-320.000.
Hughes, Simon H.C., 4,706,027, Cl. 324-309.000.
Ibe, Hiroyuki; and Shibagaki, Taro, 4,644,300, Cl. 331-111.000.
Ichihara, Issey; and Muraoka, Toshio, 4,659,212, Cl. 355-15.000.
Ichihara, Katsutarou, 4,701,880, Cl. 365-106.000.
Ichihara, Takashi, 4,639,599, Cl. 250-363.00S.
Ichihara, Takashi, 4,692,624, Cl. 250-363.00S.
Ichikawa, Kentaro, 4,714,402, Cl. 415-35.000.
Ide, Fumito; and Mochizuki, Hidenori, 4,639,114, Cl. 355-35.00H.
Ide, Fumito, 4,657,376, Cl. 355-14.00R.
Ide, Yuji, 4,710,804, Cl. 358-48.000.
Igarashi, Ryuji; and Suzuki, Yukio, 4,673,783, Cl. 219-10.55F.
Igarashi, Yosuke, 4,682,042, Cl. 250-578.000.
Igarashi, Yosuke, 4,704,638, Cl. 358-296.000.
Igarashi, Yutaka, 4,674,182, Cl. 29-837.000.
Iida, Hitoshi; and Nakayama, Ryoichi, 4,637,494, Cl. 187-10.000.
Iida, Taketoshi, 4,663,973, Cl. 73-626.000.
Iida, Tetsuya; and Ikarashi, Takayoshi, 4,679,216, Cl. 377-116.000.
Iinuma, Kazuhiro, 4,653,505, Cl. 128-660.000.
Iinuma, Kazuhiro, 4,664,123, Cl. 128-660.000.
Iizuka, Tetsuya, 4,646,126, Cl. 357-51.000.
Iizuka, Tetsuya, 4,698,789, Cl. 365-226.000.
Ikawa, Yasuo; Kawakyu, Katsue; and Kameyama, Atushi, 4,639,621, Cl. 307-450.000.
Ikawa, Yasuo; Toyoda, Nobuyuki; Kanazawa, Katsue; Mizoguchi, Takamaro; and Hojo, Akimichi, 4,663,646, Cl. 357-45.000.
Ikeda, Yoshio, 4,711,104, Cl. 68-23.00R.
Ikegame, Hiroo; and Takahashi, Tadashi, 4,675,720, Cl. 357-75.000.
Ikeya, Hirotoshi; and Higashi, Michiya, 4,710,796, Cl. 357-72.000.
Imai, Motomasa; Harata, Mitsuo; Takahashi, Takashi; and Nishijima, Kazuo, 4,701,767, Cl. 346-74.200.
Imamura, Kaoru; and Muramoto, Kenichi, 4,716,489, Cl. 361-91.000.
Inaba, Michihiko; Kanto, Masaharu; Shikanai, Satoshi; and Ohtake, Yasuhisa, 4,665,338, Cl. 313-402.000.
Inaba, Michihiko; Fujiwara, Tetsuo; Kanto, Masaharu; Ohtake, Yasuhisa; and Mori, Fumio, 4,698,545, Cl. 313-402.000.
Inagaki, Taizo, 4,674,953, Cl. 415-201.000.
Inagawa, June; and Kojima, Tadashi, 4,700,337, Cl. 369-50.000.
Inoue, Hiroshi; Tsuge, Akihiko; and Komeya, Katsutoshi, 4,680,278, Cl. 501-98.000.
Inoue, Kazuhiko; Mitani, Tatsuro; and Kishita, Yoshihiro, 4,695,869, Cl. 357-71.000.
Inoue, Masatsugu; and Yamazaki, Hidetoshi, 4,677,339, Cl. 313-402.000.
Inoue, Masatsugu; and Yamazaki, Hidetoshi, 4,697,119, Cl. 313-408.000.
Inoue, Tomoyasu, 4,656,054, Cl. 427-81.000.
Ishida, Masahiro; Kato, Shunichi; and Takasu, Noboru, 4,688,733, Cl. 242-4.00R.
Ishida, Masahiro; Kato, Shunichi; and Takasu, Noboru, 4,691,872, Cl. 242-4.00R.
Ishida, Masahiro; Kato, Shunichi; and Takasu, Noboru, 4,694,999, Cl. 242-4.00R.
Ishigaki, Toshinori, 4,715,595, Cl. 271- 10.000.
Ishii, Akira, 4,713,969, Cl. 73-706.000.
Ishii, Takashi, 4,656,531, Cl. 360-19.100.
Ishikawa, Masaaki, 4,667,244, Cl. 358-294.000.
Ishikawa, Tadashi; and Eguchi, Kazutoshi, 4,707,799, Cl. 364-771.000.
Ishikawa, Tatsuo, 4,682,305, Cl. 364-900.000.
Ishiyama, Kazufumi, 4,686,408, Cl. 310-334.000.
Itakura, Tetsuro; Kasagi, Yoshitaka; Koyama, Mikio; and Nakagawara, Chikashi, 4,709,408, Cl. 455-260.000.
Ito, Akira; Danno, Yuji; and Kawashima, Kouzou, 4,686,422, Cl. 315-74.000.
Ito, Kenji, 4,695,781, Cl. 318-603.000.
Ito, Takeo; Takeuchi, Hajime; Hashimoto, Minoru; and Maeda, Tatsumi, 4,714,654, Cl. 428-328.000.
Ito, Yasuyuki, 4,636,688, Cl. 315-4.000.
Ito, Yasuyuki; and Sugawara, Toru, 4,641,031, Cl. 250-423.00R.
Ito, Yoshihiro; and Ochiai, Tooru, 4,649,640, Cl. 29-605.000.
Itoh, Yasuo, 4,638,458, Cl. 365-51.000.
Itou, Takeo; Koike, Norio; and Sagow, Seiji, 4,651,054, Cl. 313-468.000.
Iwahashi, Hiroshi, 4,677,591, Cl. 365-189.000.
Iwahashi, Hiroshi; Asano, Masamichi; and Narita, Akira, 4,692,834, Cl. 361-91.000.
Iwahashi, Hiroshi; Asano, Masamichi; Momodomi, Masaki; Minagawa, Hidenobu; Suzuki, Kazuto; and Narita, Akira, 4,697,101, Cl. 307-452.000.
Iwahashi, Hiroshi, 4,715,017, Cl. 365-239.000.
Iwama, Nobuyuki, 4,658,407, Cl. 377-25.000.
Iwamoto, Katsuharu; Kawakami, Osamu; Miyagawa, Hideo; Tashiro, Ikuo; and Ishimura, Takiji, 4,687,927, Cl. 250-231.00P.
Iwasaki, Hiroshi; and Ito, Shintaro, 4,637,125, Cl. 29-571.000.
Iwasaki, Hiroshi; and Ito, Shintaro, 4,694,562, Cl. 437-57.000.
Iwasaki, Hitoshi; Chiba, Shu; and Sawazaki, Norikazu, 4,635,152, Cl. 360-110.000.
Iwase, Nobuo; Anzai, Kazuo; Shinozaki, Kazuo; Tsuge, Akihiko; Saitoh, Kazutaka; Iyogi, Kiyoshi; Sato, Noboru; and Kasori, Mitsuo, 4,659,611, Cl. 428-209.000.
Iwase, Taira; Arizumi, Shoji; and Masuoka, Fujio, 4,649,412, Cl. 357-41.000.
Kageyama, Hiroshi; Koyama, Katsuhide; and Fujiwara, Shigemi, 4,703,178, Cl. 250-327.200.
Kageyama, Satoshi, 4,636,953, Cl. 364-414.000.
Kamasaki, Keiji, 4,712,017, Cl. 250-551.000.
Kamiya, Shigeo, 4,672,534, Cl. 364-200.000.
Kamohara, Eiji, 4,672,269, Cl. 315-3.000.
Kamohara, Eiji, 4,686,420, Cl. 315-15.000.
Kanatani, Tadayuki; Nomura, Katunori; and Uchida, Hirotaka, 4,662,203, Cl. 72-9.000.
Kanazawa, Hidetoshi, 4,663,942, Cl. 62-227.000.
Kanda, Hiroyuki, 4,710,687, Cl. 318-561.000.
Kaneko, Eiji; Yanabu, Satoru; and Tamagawa, Tohoru, 4,698,467, Cl. 200-144.00B.
Kaneko, Makoto; Ogura, Ichiro; Asahina, Hiroshi; and Yasuhara, Hiroshi, 4,688,175, Cl. 364-414.000.
Kaneko, Nagao; Nakamura, Nanao; Koyama, Masao; Saitoh, Shiroh; and Honda, Hiroki, 4,651,310, Cl. 367-140.000.
Kanno, Masayuki, 4,667,248, Cl. 358-280.000.
Kanuma, Akira, 4,656,370, Cl. 307-303.000.
Kasahara, Akihiro; Goto, Kenya; Yamada, Akira; and Watanabe, Shoji, 4,679,903, Cl. 350-247.000.
Kasai, Toshihiro, 4,641,602, Cl. 118-653.000.
Kasori, Mituo; Shinozaki, Kazuo; Anzai, Kazuo; and Takano, Takeshi, 4,698,320, Cl. 501-96.000.
Katsumata, Kenichiro, 4,656,584, Cl. 364-414.000.
Kawakami, Chikahisa; and Suzuki, Tsuneo, 4,654,733, Cl. 360-99.000.
Kawakami, Chikahisa, 4,700,095, Cl. 310-91.000.
Kawakami, Hiroshi, 4,695,990, Cl. 369-38.000.
Kawakatsu, Akira; Watanabe, Tsutomu; and Yuge, Yoji, 4,652,789, Cl. 313-112.000.
Kawakatsu, Akira; Yuge, Yooji; Hayama, Noriyuki; Saito, Tokuyoshi; and Maeda, Umio, 4,701,663, Cl. 313-112.000.
Kawano, Mitsumo, 4,684,901, Cl. 331-25.000.
Kawasaki, Ryoji; Yoshizawa, Kazuhiro; Yotsutani, Akio; Saegusa, Noboru; Ito, Koichi; and Huse, Syozi, 4,679,244, Cl. 455-54.000.
Kessoku, Hirobumi, 4,713,673, Cl. 355-4.000.
Kikuchi, Katsuya; and Honda, Michitaka, 4,656,650, Cl. 378-7.000.
Kikuchi, Katsuya, 4,712,133, Cl. 358-98.000.
Kimura, Kazuhiro; and Ishida, Katsuyo, 4,704,695, Cl. 364-513.000.
Kimura, Motohiko, 4,712,969, Cl. 414-730.000.
Kimura, Seiichiro; and Aoki, Hidekazu, 4,692,583, Cl. 219-121.00L.
Kimura, Seiichirou, 4,685,780, Cl. 350-613.000.
Kinoshita, Tsuneo, 4,691,282, Cl. 364-200.000.
Kishita, Yoshihiro; Furukawa, Motoki; and Mitani, Tatsuro, 4,650,543, Cl. 156-643.000.
Kishita, Yoshihiro; Furukawa, Motoki; and Mitani, Tatsuro, 4,674,174, Cl. 29-578.000.
Kitamura, Shunji, 4,697,213, Cl. 360-78.000.
Kiyoshi, Tokita; and Masayoshi, Kondou, 4,716,333, Cl. 313-402.000.
Kizu, Shuji; Ishida, Tsuyoshi; and Nagase, Yasuo, 4,691,100, Cl. 250-223.00R.
Kobata, Hiroshi; and Kojima, Tadashi, 4,713,802, Cl. 369-59.000.
Kobayashi, Hiroshi; Haruyama, Hideaki; and Hirose, Tsuguhiro, 4,661,950, Cl. 370-85.000.
Kobayashi, Hiroshi; Haruyama, Hideaki; and Hirose, Tsuguhiro, 4,694,453, Cl. 370-85.000.
Kobayashi, Hiroyoshi; and Honda, Kenji, 4,661,896, Cl. 363-24.000.
Kobayashi, Koichi, 4,680,748, Cl. 369-77.100.
Kobayashi, Noboru, 4,641,052, Cl. 310-317.000.
Kohsaka, Yoshio, 4,651,542, Cl. 68-23.00R.
Kohyama, Mitsuaki; Kasai, Toshihiro; Ishida, Haruhiko; and Shimazaki, Takashi, 4,645,330, Cl. 355-14.00R.
Kohyama, Mitsuaki, 4,653,426, Cl. 118-651.000.
Kohyama, Mitsuaki, 4,674,441, Cl. 118-707.000.
Kohyama, Mitsuaki, 4,686,934, Cl. 118-651.000.
Kohyama, Mitsuaki, 4,688,923, Cl. 355-3.0DD.
Koike, Hideharu, 4,651,296, Cl. 364-784.000.
Koike, Hideharu, 4,716,318, Cl. 307-520.000.
Koinuma, Hiroyuki, 4,687,955, Cl. 307-290.000.
Kojima, Fumitoshi; and Hatanaka, Masahiko, 4,644,473, Cl. 364-414.000.
Kojima, Fumitoshi; and Mitomi, Mitchio, 4,684,893, Cl. 324-312.000.
Kojima, Mitsuhiro; Asahi, Morio; Narita, Ryuuho; and Imai, Masahiro, 4,674,890, Cl. 368-107.000.
Komatsu, Kenichi, 4,699,125, Cl. 128-6.000.
Komatsu, Michiyasu; Miyano, Tadashi; Ando, Akio; Nakanishi, Masae; and Fujimoto, Yuuji, 4,671,912, Cl. 264-63.000.

Komatsu, Shigeru, 4,692,190, Cl. 437-189.000.
Komatsu, Shigeru, 4,710,241, Cl. 437-162.000.
Komeya, Katsutoshi; and Komatsu, Michiyasu, 4,693,857, Cl. 264-56.000.
Komuro, Isaku; and Sano, Yoshikazu, 4,650,932, Cl. 379-164.000.
Kon, Takao; Yano, Kensaku; Kakegawa, Masayuki; and Shibata, Hidenori, 4,688,098, Cl. 358-213.190.
Kondo, Hirofumi, 4,662,133, Cl. 52-167.000.
Kondoh, Hitoshi; and Sueda, Akihiro, 4,716,452, Cl. 357-68.000.
Kondoh, You; and Tanuma, Chiaki, 4,689,514, Cl. 310-316.000.
Konishi, Kazuo; and Nishikawa, Meisei, 4,701,875, Cl. 364-728.000.
Konishi, Kuniyoshi, 4,671,608, Cl. 350-96.160.
Konishi, Satoshi, 4,649,291, Cl. 307-297.000.
Koshino, Masayoshi, 4,683,394, Cl. 310-313.00R.
Koshino, Yutaka; Akiyama, Tatsuo; and Baba, Yoshiro, 4,710,794, Cl. 357-49.000.
Koyama, Katsuhide; Fujiwara, Shigemi; and Kageyama, Hiroshi, 4,663,527, Cl. 250-327.200.
Koyama, Katsuhide; Fujiwara, Shigemi; and Kageyama, Hiroshi, 4,667,102, Cl. 250-327.200.
Koyama, Toshihiro; Watanabe, Takahiro; Shiozaki, Hiroyuki; Kawanami, Takao; Takahashi, Hideo; Shiraishi, Toshiyuki; and Okudaira, Ken, 4,665,729, Cl. 72-8.000.
Kubo, Masahiro, 4,710,111, Cl. 418-63.000.
Kubo, Osamu; Nomura, Tutomu; Ido, Tadashi; and Yokoyama, Hirotaka, 4,636,433, Cl. 428-328.000.
Kubota, Mitsuru; and Iwase, Iseo, 4,652,729, Cl. 235-384.000.
Kubota, Mitsuru; and Amita, Kozo, 4,682,170, Cl. 340-928.000.
Kubota, Yousuke, 4,679,442, Cl. 72-861.120.
Kumazawa, Katsuyoshi; and Komori, Minoru, 4,666,398, Cl. 431-201.000.
Kunii, Hideo; and Matsumoto, Katsumi, 4,649,442, Cl. 360-72.200.
Kunii, Shinpei; and Fujiki, Masao, 4,686,590, Cl. 360-78.000.
Kunii, Yutaka, 4,681,120, Cl. 128-660.000.
Kurihara, Haruki; Sagara, Minoru; Matumoto, Kenji; and Tamura, Hideo, 4,639,925, Cl. 372-46.000.
Kurihara, Haruki; Tamura, Hideo; Suzuki, Kazuo; and Matsumoto, Kenji, 4,663,762, Cl. 372-45.000.
Kuriyama, Toru; and Nakagome, Hideki, 4,674,288, Cl. 62-3.000.
Kuroiwa, Akihiko, 4,682,094, Cl. 318-723.000.
Kuroiwa, Akihiko; and Saito, Suzuo, 4,692,855, Cl. 363-95.000.
Kurosawa, Ryoichi; and Shimamura, Takeo, 4,652,989, Cl. 363-161.000.
Kurosawa, Ryoichi, 4,675,584, Cl. 318-326.000.
Kuwahara, Eiji, 4,658,596, Cl. 62-197.000.
Machida, Yoshio; and Kasugai, Takao, 4,709,211, Cl. 324-309.000.
Maeda, Satoshi, 4,642,878, Cl. 29-571.000.
Maeda, Takeo, 4,643,777, Cl. 148-1.500.
Maeda, Takeo, 4,663,825, Cl. 29-571.000.
Maehara, Yasunori; Fujiwara, Sigemi; Koyama, Katsuhide; Tamura, Kaoru; Kawai, Yasuhiro; and Watanabe, Kazuya, 4,697,902, Cl. 354-281.000.
Magome, Koichi; Toda, Haruki; Koinuma, Hiroyuki; Sahara, Hiroshi; Suzuki, Kiminobu; Ohshima, Shigeo; and Komatsu, Kenji, 4,678,934, Cl. 307-279.000.
Maruta, Shuichiro, 4,667,118, Cl. 307-273.000.
Masanobu, Kazunori, 4,661,693, Cl. 250-207.000.
Masanobu, Kazunori, 4,672,650, Cl. 378-4.000.
Mase, Yasukazu; Abe, Masahiro; and Aoyama, Masaharu, 4,634,496, Cl. 156-643.000.
Masuda, Eiji; and Fujita, Yasuhiko, 4,639,554, Cl. 340-365.00S.
Masuda, Eiji; and Fujita, Yasuhiko, 4,665,381, Cl. 340-347.0DA.
Masuko, Akinori; Kuroiwa, Wataru; Uehara, Shouji; Uekusa, Tsutomu; Rast, Robert M.; and Campbell, W. Sherwood, 4,686,564, Cl. 358-86.000.
Masuoka, Fujio; and Ochii, Kiyofumi, 4,710,897, Cl. 365-182.000.
Masuoka, Norio; and Yasunobu Nakayama, 4,667,266, Cl. 361-212.000.
Matsui, Yutaka, 4,633,883, Cl. 128-660.000.
Matsukawa, Naohiro; Morita, Sigeru; and Nozawa, Hiroshi, 4,642,881, Cl. 29-576.00B.
Matsumoto, Kenzo, 4,653,000, Cl. 364-414.000.
Matsumura, Ken, 4,651,269, Cl. 363-63.000.
Matsunaga, Yoshiyuki, 4,683,580, Cl. 377-60.000.
Matsuo, Satoshi, 4,716,457, Cl. 358-98.000.
Matsuo, Yukito, 4,665,349, Cl. 318-135.000.
Matsuo, Yukito, 4,716,346, Cl. 318-38.000.
Matsuoka, Mamoru; and Higa, Osamu, 4,665,458, Cl. 361-18.000.
Matsushima, Kazufumi; and Sujaku, Takamichi, 4,661,669, Cl. 219-10.55R.
Matsushita, Akira, 4,701,914, Cl. 371-13.000.
Matsushita, Yoshiaki, 4,645,546, Cl. 148-33.000.
Matsuura, Toshihiro, 4,710,099, Cl. 415-199.500.
Matsuzaka, Takashi; Saito, Toshihiko; and Hisaoka, Satoshi, 4,687,435, Cl. 431-1.000.
Matsuzaki, Kazuhiro, 4,635,346, Cl. 29-577.00R.
McIlroy, Paul W. A.; Kurobe, Atsushi; and Furuyama, Hideto, 4,701,774, Cl. 357-17.000.
Mihara, Yuji, 4,692,874, Cl. 364-483.000.
Mikami, Hitoshi; Fukuda, Katsuyoshi; and Yasuami, Shigeru, 4,670,968, Cl. 29-576.00B.
Miura, Kunihiko, 4,649,403, Cl. 346-160.000.
Miura, Kunihiko, 4,707,715, Cl. 346-160.000.
Miwa, Junichi; and Kato, Minoru, 4,635,086, Cl. 357-38.000.
Miyamoto, Junichi, 4,658,159, Cl. 307-530.000.
Miyamoto, Junichi; and Tsujimoto, Jun-ichi, 4,680,735, Cl. 365-210.000.
Miyamoto, Junichi; and Tsujimoto, Jun-ichi, 4,694,427, Cl. 365-185.000.
Miyasako, Yoji, 4,692,711, Cl. 330-257.000.
Miyazaki, Yoshiro, 4,676,300, Cl. 165-32.000.
Miyazawa, Yoshiaki, 4,641,042, Cl. 307-66.000.
Mizoguchi, Tetsuhiko; Inomata, Koichiro; Higuchi, Toru; and Sakai, Isao, 4,664,724, Cl. 148-302.000.
Mizunoya, Nobuyuki; Sugiura, Yasuyuki; and Hatori, Masakazu, 4,704,320, Cl. 428-210.000.
Mizutani, Hiroyuki, 4,650,980, Cl. 235-380.000.
Mizutani, Motoharu, 4,656,523, Cl. 358-260.000.
Mizutani, Yoshihisa, 4,637,128, Cl. 29-576.00B.
Mizutani, Yoshihisa; and Yokogawa, Syunzi, 4,642,880, Cl. 29-576.00B.
Mizutani, Yoshihisa, 4,661,833, Cl. 357-54.000.
Mochizuki, Tohru, 4,716,548, Cl. 365-149.000.
Moore, John F., 4,641,119, Cl. 335-297.000.
Moore, John F., 4,672,208, Cl. 250-368.000.
Mori, Shojiro, 4,682,331, Cl. 371-25.000.
Morishita, Mimpei; and Azukizawa, Teruo, 4,690,066, Cl. 104-282.000.
Morita, Hiroyuki, 4,696,056, Cl. 455-182.000.
Moriya, Takahiko; and Nakada, Saburo, 4,650,698, Cl. 427-237.000.
Moriyasu, Takashi, 4,703,443, Cl. 364-559.000.
Morizuka, Kouhei, 4,679,305, Cl. 29-576.300.
Motegi, Nawoto; Okajima, Masaki; and Muro, Yuhei, 4,635,268, Cl. 372-45.000.
Motegi, Nawoto; Watanabe, Yukio; Shimada, Naohiro; and Okajima, Masaki, 4,691,321, Cl. 372-46.000.
Murakami, Chikara; Nakajima, Atsushi; Shimamoto, Yoshiharu; and Takahashi, Hiroshi, 4,652,780, Cl. 310-90.500.
Murakami, Kenji; Konomatu, Yositaka; and Sato, Kanro, 4,664,793, Cl. 210-181.000.
Murakami, Reiji; Hashimoto, Shinichi; Shimono, Mamoru; and Ide, Fumito, 4,682,769, Cl. 271-10.000.
Nagai, Yasutaka; and Enjoji, Susumu, 4,676,106, Cl. 73-625.000.
Nagano, Katsumi, 4,636,655, Cl. 307-261.000.
Nagano, Katsumi, 4,678,946, Cl. 307-490.000.
Nagasaka, Hiroko; and Motegi, Nawoto, 4,640,737, Cl. 156-643.000.
Nagashima, Masayoshi; Takahashi, Tomohiko; Higure, Naoto; and Fukuda, Kanehiro, 4,642,659, Cl. 346-76.0PH.
Nagata, Minoru, 4,701,719, Cl. 330-258.000.
Nagumo, Masahide, 4,710,923, Cl. 371-2.000.
Nakada, Yoshiyuki; Asada, Masao; and Inoue, Kiyoshi, 4,699,662, Cl. 106-287.130.
Nakagawa, Akio; Ohashi, Hiromichi; Yamaguchi, Yoshihiro; Watanabe, Kiminori; and Thukakoshi, Thuneo, 4,672,407, Cl. 357-23.400.
Nakagawa, Akio; and Watanabe, Kiminori, 4,680,604, Cl. 357-23.400.
Nakagawa, Akio; and Ohashi, Hiromichi, 4,689,647, Cl. 357-23.400.
Nakagawa, Akio; Ohashi, Hiromichi; Ogura, Tsuneo; and Shimbo, Masaru, 4,700,466, Cl. 437-247.000.
Nakagawa, Akira, 4,701,897, Cl. 369-32.000.
Nakagawa, Kaoru; Ogura, Mitsugi; Natori, Kenji; and Masuoka, Fujio, 4,706,249, Cl. 371-38.000.
Nakagawa, Masaki; and Suzuki, Susumu, 4,644,389, Cl. 358-28.000.
Nakahara, Moriya, 4,663,827, Cl. 29-571.000.
Nakahara, Moriya, 4,697,333, Cl. 437-20.000.
Nakai, Toshio; and Saito, Tamio, 4,663,535, Cl. 250-578.000.
Nakajima, Kihei, 4,649,334, Cl. 323-299.000.
Nakamura, Makoto; Suzuki, Hideo; and Kuroki, Toshihiko, 4,686,512, Cl. 340-347.0DD.
Nakamura, Masaru, 4,667,212, Cl. 357-19.000.
Nakamura, Masaru; Okajima, Masaki; Komatsubara, Tadashi; Sadamasa, Tetsuo; and Nitta, Koichi, 4,706,101, Cl. 357-17.000.
Nakasuji, Mamoru, 4,684,809, Cl. 250-492.200.
Nakatsugawa, Norihiko, 4,683,460, Cl. 340-545.000.
Nakayama, Yasunobu; and Sato, Yasuji, 4,636,588, Cl. 379-362.000.
Nakayama, Yasunobu; and Sato, Yasuji, 4,645,882, Cl. 379-387.000.
Nanaumi, Yasuaki, 4,653,495, Cl. 128-303.100.
Narita, Ryuuho; and Imai, Masahiro, 4,644,571, Cl. 377-56.000.
Narita, Ryuuho; and Imai, Masahiro, 4,671,668, Cl. 368-10.000.
Naruke, Kiyomi, 4,675,981, Cl. 29-576.00B.
Nirei, Hironori; and Tamagawa, Tsutomu, 4,649,716, Cl. 62-280.000.
Nishibe, Shinji, 4,670,877, Cl. 371-15.000.
Nishiki, Masayuki; and Iinuma, Kazuhiro, 4,689,487, Cl. 250-361.00R.
Nishimura, Eiji; Takigawa, Tadahiro; and Kato, Yoshihide, 4,712,013, Cl. 250-492.200.
Niwa, Kiyomi; and Kozawa, Yutaka, 4,711,293, Cl. 165-4.000.
Nobuta, Yasuo, 4,651,032, Cl. 307-491.000.
Noh, Akihiko; Sato, Shinichi; Kakuda, Itsusuke; and Kanno, Shigeyuki, 4,701,994, Cl. 29-568.000.
Noji, Takashi, 4,686,417, Cl. 313-479.000.
Nonaka, Hikaru, 4,689,966, Cl. 62-187.000.
Nosaki, Takefumi; and Miura, Kunihiko, 4,647,950, Cl. 346-160.000.
Nozaki, Hidetoshi; and Adachi, Toshikazu, 4,677,289, Cl. 250-226.000.
Nukada, Hideki; and Takahashi, Atsushi, 4,677,505, Cl. 360-77.000.
Oana, Yasuhisa, 4,709,990, Cl. 350-339.00F.

Obata, Yoshiharu; Noji, Takashi; Sugiyama, Masahiro; and Kawamura, Shigeharu, 4,670,094, Cl. 156-655.000.
O'Brien, Thomas P., 4,639,081, Cl. 350-144.000.
O'Brien, Thomas P.; and Bernardi, Richard T., 4,679,221, Cl. 378-148.000.
Ochiai, Kumi; Horie, Hiromichi; Arima, Itsuo; Morita, Mikio; and Kamohara, Hisato, 4,696,725, Cl. 252-62.540.
Ochii, Kiyofumi, 4,661,202, Cl. 156-643.000.
Odawara, Kazuharu, 4,647,948, Cl. 346-137.000.
Odawara, Kazuharu; and Tago, Yoshiaki, 4,665,457, Cl. 360-133.000.
Ogawa, Kiyoshi, 4,677,309, Cl. 307-46.000.
Ogawa, Takashi; Shirogami, Tamotsu; and Murata, Kenji, 4,708,916, Cl. 429-38.000.
Ogo, Yoshimasa, 4,658,415, Cl. 378-187.000.
Ogura, Masahiko, 4,638,235, Cl. 318-696.000.
Ogura, Mitsugi; and Masuoka, Fujio, 4,688,064, Cl. 357-23.600.
Ohguma, Hirotsugu; Harada, Mitsuo; Saura, Hideaki; and Yasuda, Satoshi, 4,689,970, Cl. 62-514.00R.
Ohkawa, Hideki; Ichihara, Katsutarou; Terashima, Yoshiaki; and Yasuda, Nobuaki, 4,666,759, Cl. 428-213.000.
Ohno, Tadayoshi, 4,707,707, Cl. 346-76.0PH.
Ohtake, Yasuhisa; Kudou, Makoto; and Sengoku, Yasushi, 4,662,984, Cl. 156-637.000.
Ohtake, Yasuhisa; and Harigae, Makoto, 4,689,114, Cl. 156-644.000.
Ohtani, Takayuki; Isobe, Mitsuo; Aono, Akira; and Urakawa, Nobuaki, 4,697,112, Cl. 307-530.000.
Ohuchi, Masayuki; Oodaira, Hirosi; and Yoshida, Kenichi, 4,635,356, Cl. 29-841.000.
Oida, Susumu; Munemoto, Yoshikazu; Ueda, Masami; and Ito, Michiaki, 4,711,105, Cl. 68-23.200.
Okada, Yoshio; and Shimizu, Mitsuru, 4,663,584, Cl. 323-313.000.
Okazaki, Kiyoshi, 4,689,670, Cl. 358-111.000.
Okazaki, Kiyoshi, 4,700,571, Cl. 73-597.000.
Okazaki, Yoji, 4,716,419, Cl. 346-76.0PH.
Okazaki, Yukio, 4,683,401, Cl. 315-39.000.
Okochi, Sadao, 4,667,173, Cl. 333-177.000.
Okochi, Sadao, 4,677,534, Cl. 363-21.000.
Okuhara, Hiroo, 4,661,957, Cl. 371-59.000.
Okui, Isamu; and Onda, Tetsurou, 4,691,235, Cl. 358-172.000.
Okumura, Eisuke; and Tsuno, Katsuhiko, 4,703,167, Cl. 250-203.00R.
Onitsuka, Naganori, 4,714,869, Cl. 322-20.000.
Ono, Akira, 4,696,572, Cl. 356-348.000.
Ono, Akira, 4,697,927, Cl. 356-360.000.
Ono, Katsuhiro, 4,674,109, Cl. 378-130.000.
Ono, Katsuhiro, 4,679,220, Cl. 378-132.000.
Ono, Katsuhiro; Sakuma, Tatsuya; and Takahashi, Hiroshi, 4,698,835, Cl. 378-136.000.
Ono, Ken'ichi, 4,672,465, Cl. 358-296.000.
Onodera, Toshihiro; and Masuda, Youichi, 4,698,743, Cl. 363-136.000.
Onodera, Toshihiro, 4,706,268, Cl. 378-99.000.
Oodaira, Hirosi; Suzuki, Haruko; Saito, Masayuki; and Ohuchi, Masayuki, 4,694,138, Cl. 219-121.0LM.
Ooi, Katsunori; Hidai, Yutaka; Kurosawa, Yoshiaki; and Nakamura, Yoshikatsu, 4,685,142, Cl. 382-13.000.
Ooi, Kazushige, 4,680,636, Cl. 358-213.180.
Oushiden, Hideshi; and Obara, Naoshi, 4,641,953, Cl. 355-14.00R.
Oushiden, Hideshi; and Takemoto, Seiso, 4,650,317, Cl. 355-57.000.
Owada, Fumio; and Tsuda, Yukio, 4,667,249, Cl. 358-282.000.
Oyama, Masumi, 4,641,374, Cl. 455-603.000.
Ozaki, Hidemichi, 4,679,219, Cl. 378-121.000.
Ozaki, Takayuki, 4,670,788, Cl. 358-164.000.
Ozeki, Takeshi; and Tsubura, Shinichi, 4,674,046, Cl. 364-414.000.
Ozu, Masao, 4,702,088, Cl. 62-324.100.
Rokugawa, Kyuji; and Tamayama, Yasuko, 4,714,672, Cl. 435-7.000.
Ruike, Toshikatsu, 4,663,531, Cl. 250-363.00S.
Sagoi, Masayuki; and Nishikawa, Reiji, 4,680,197, Cl. 427-129.000.
Sagoi, Masayuki; Tanaka, Yoichiro; and Nakamura, Hiroki, 4,701,374, Cl. 428-336.000.
Sagou, Seiji; and Itou, Takeo, 4,687,825, Cl. 427-54.100.
Sahoda, Masayuki; Tanaka, Fuminari; and Iida, Tetsuya, 4,701,877, Cl. 364-784.000.
Saito, Kazuo; Matsuzaka, Takashi; Chiba, Mitsuyoshi; Sumitani, Shigeto; Yodo, Masami; and Araya, Hiroyuki, 4,642,046, Cl. 431-354.000.
Saito, Masayuki; and Oodaira, Hirosi, 4,704,318, Cl. 428-209.000.
Saito, Mitsuo; Aikawa, Takeshi; and Mori, Akio, 4,660,181, Cl. 365-230.000.
Saito, Suzuo, 4,673,858, Cl. 318-805.000.
Saito, Tamio; and Nakai, Toshio, 4,654,536, Cl. 250-578.000.
Saito, Tomotaka, 4,641,278, Cl. 365-78.000.
Saito, Tutomu; and Yoneda, Hitoshi, 4,694,310, Cl. 346-153.100.
Saitou, Masao, 4,661,826, Cl. 346-76.0PH.
Saitou, Masao, 4,663,637, Cl. 346-76.0PH.
Saitou, Masao, 4,687,358, Cl. 400-208.000.
Sakai, Takami, 4,639,848, Cl. 363-51.000.
Sakai, Takami, 4,680,692, Cl. 363-35.000.
Sakakibara, Yuichi; Takahashi, Yukio; and Shima, Hideharu, 4,691,140, Cl. 313-486.000.
Sakamaki, Takeshi; and Watanabe, Fumio, 4,675,162, Cl. 422-65.000.
Sakashita, Wataru; Chiyoya, Tsukasa; Ichikawa, Tsutomu; and Hayano, Makoto, 4,645,437, Cl. 418-55.000.
Sakata, Hirotsugu; Nagatomo, Shigemi; Hayano, Makoto; and Hatori, Mitsuo, 4,696,630, Cl. 418-55.000.
Sakurai, Hiroshi; and Iwasaki, Masami, 4,694,322, Cl. 357-74.000.
Sakurai, Takayasu; and Iizuka, Tetsuya, 4,677,592, Cl. 365-222.000.
Sakurai, Takayasu; and Iizuka, Tetsuya, 4,682,306, Cl. 365-222.000.
Sakurai, Takayasu; and Iizuka, Tetsuya, 4,683,382, Cl. 307-296.00R.
Sakurai, Toshiharu; and Hirata, Seiichi, 4,654,692, Cl. 357-68.000.
Sambayashi, Takeshi, 4,711,559, Cl. 355-14.00D.
Sano, Masaki; and Osafune, Koji, 4,709,279, Cl. 360-78.000.
Sasaki, Hiroshi, 4,679,565, Cl. 128-660.000.
Sasaki, Hiroshi, 4,682,497, Cl. 73-602.000.
Sato, Akio, 4,689,439, Cl. 174-15.0CA.
Sato, Hajime; and Mizuguchi, Mamoru, 4,644,411, Cl. 358-294.000.
Sato, Kazuyuki, 4,651,308, Cl. 365-230.000.
Sato, Kazuyuki, 4,679,173, Cl. 365-233.000.
Sato, Masaki, 4,640,000, Cl. 29-571.000.
Sato, Mitsuo; and Kamidoi, Hiroshi, 4,672,185, Cl. 235-462.000.
Sato, Noriko; and Suzuki, Masayuki, 4,715,218, Cl. 73-86.000.
Sayano, Akio, 4,654,232, Cl. 427-376.600.
Segawa, Makoto; and Arizumi, Shoji, 4,648,075, Cl. 365-200.000.
Seki, Nagataka; and Kaneko, Kouichi, 4,667,283, Cl. 363-95.000.
Seki, Nagataka; and Ichikawa, Kosaku, 4,675,800, Cl. 363-68.000.
Sekimura, Masayuki; and Shirouzu, Shunji, 4,637,253, Cl. 73-189.000.
Sekine, Makoto; Okano, Haruo; and Horiike, Yasuhiro, 4,642,171, Cl. 204-298.000.
Sekine, Makoto; Okano, Haruo; and Horiike, Yasuhiro, 4,668,337, Cl. 156-643.000.
Sekizawa, Hidekazu; Iwamoto, Akito; Yamamoto, Naofumi; and Yoneda, Hitoshi, 4,661,843, Cl. 358-80.000.
Sekizawa, Hidekazu; and Iwamoto, Akito, 4,675,727, Cl. 358-75.000.
Sekizawa, Hidekazu; Kawakami, Haruko; and Yamamoto, Naofumi, 4,698,669, Cl. 358-76.000.
Sera, Michitoshi; Watanabe, Mitukazu; and Aoki, Kiyoshi, 4,708,613, Cl. 425-117.000.
Shibagaki, Taro; Ibe, Hiroyuki; Tamura, Toshifumi; Ozeki, Takeshi; and Hirayama, Yoichi, 4,704,715, Cl. 370-50.000.
Shibata, Haruo, 4,656,542, Cl. 360-97.000.
Shibata, Haruo, 4,700,247, Cl. 360-99.000.
Shibuya, Kunihiro; and Hara, Kunio, 4,644,391, Cl. 358-75.000.
Shigemasa, Takashi; and Ichikawa, Yoshinori, 4,641,235, Cl. 364-149.000.
Shigemasa, Takashi, 4,679,136, Cl. 364-150.000.
Shikata, Hiroshi, 4,636,117, Cl. 407-104.000.
Shikata, Hiroshi, 4,692,070, Cl. 407-104.000.
Shimada, Kizashi; Akiyama, Tatsuo; and Koshino, Yutaka, 4,700,455, Cl. 437-39.000.
Shimamura, Takeo; Uchino, Hiroshi; and Kurosawa, Ryoichi, 4,698,581, Cl. 323-211.000.
Shimazaki, Ayako, 4,634,497, Cl. 156-646.000.
Shimbo, Masaru; Fukuda, Kiyoshi; and Ohwada, Yoshiaki, 4,638,552, Cl. 29-576.00J.
Shimbo, Masaru; and Fukuda, Kiyoshi, 4,671,846, Cl. 156-629.000.
Shimizu, Hiroshi; and Kaizuka, Masao, 4,706,217, Cl. 365-154.000.
Shimizu, Makoto, 4,661,988, Cl. 382-65.000.
Shimoma, Taketoshi; and Fukuda, Kumio, 4,689,525, Cl. 315-370.000.
Shimura, Masatoshi; Yokoyama, Kunio; Anbo, Kuniaki; and Anzai, Kazuhiro, 4,652,937, Cl. 358-286.000.
Shinohara, Hiroo; and Imai, Toshiaki, 4,678,755, Cl. 436-43.000.
Shiotari, Yoshihisa; and Nagao, Kenichi, 4,688,070, Cl. 357-40.000.
Shirai, Koji; and Kawamura, Ken, 4,707,720, Cl. 357-53.000.
Shiraishi, Hajime, 4,641,044, Cl. 307-269.000.
Shiraishi, Isao, 4,647,277, Cl. 445-67.000.
Shiraishi, Isao, 4,708,236, Cl. 198-468.200.
Shiraishi, Masazumi; and Ikuta, Masaki, 4,677,524, Cl. 361-335.000.
Shiraishi, Yasuhisa; Fujita, Takashi; Ochi, Yoshiharu; Hirose, Masahiko; Ichihara, Katsutarou; and Ishigami, Takashi, 4,634,635, Cl. 428-446.000.
Shirasaka, Toshio, 4,660,565, Cl. 128-660.000.
Sogo, Toshiyuki; and Ide, Fumito, 4,679,927, Cl. 355-3.00R.
Sudo, Hajime; and Takahashi, Hiroshi, 4,644,205, Cl. 310-90.500.
Sugiki, Tadashi, 4,680,637, Cl. 358-213.260.
Sugimoto, Yasuhiro, 4,636,659, Cl. 307-353.000.
Sumi, Masahiko, 4,710,898, Cl. 365-189.000.
Sumiyoshi, Hajime, 4,647,970, Cl. 358-150.000.
Suzuki, Hideo, 4,674,105, Cl. 375-80.000.
Suzuki, Hiroaki; and Kobayashi, Teruo, 4,651,190, Cl. 357-45.000.
Suzuki, Hiroshi; and Imamura, Makoto, 4,635,143, Cl. 360-65.000.
Suzuki, Hiroshi, 4,661,755, Cl. 318-696.000.
Suzuki, Hiroshi; and Ohmori, Akimitsu, 4,669,697, Cl. 248-638.000.
Suzuki, Hitoshi; and Sato, Hiroaki, 4,642,508, Cl. 310-321.000.
Suzuki, Hitoshi; Ebata, Yasuo; Matsumura, Sadao; and Ushizawa, Jisaburo, 4,672,255, Cl. 310-313.00A.
Suzuki, Isamu, 4,697,985, Cl. 416-97.00R.
Suzuki, Kuniaki, 4,653,941, Cl. 400-121.000.
Suzuki, Motomu; and Asahina, Hiroshi, 4,639,867, Cl. 364-414.000.
Suzuki, Seigo; Yabe, Yukihiko; and Kawakami, Masumi, 4,692,640, Cl. 307-464.000.
Suzuki, Seigo, 4,692,738, Cl. 340-347.00C.
Suzuki, Soichi; Aihara, Mitsuo; and Fujii, Mitsuo, 4,691,287, Cl. 364-490.000.
Suzuki, Susumu, 4,661,841, Cl. 358-27.000.
Suzuki, Toshiyuki; and Nishikawa, Reiji, 4,649,073, Cl. 428-212.000.

Suzuki, Toshiyuki; and Nishikawa, Reiji, 4,652,479, Cl. 428-64.000.
Suzuki, Toshiyuki; and Okamura, Hiroshi, 4,654,741, Cl. 360-133.000.
Suzuki, Yuji; and Hattori, Syunsuke, 4,652,893, Cl. 346-140.00R.
Tabata, Mitsuo; and Shibuya, Nobuo, 4,642,468, Cl. 250-548.000.
Tachibana, Natsuki; and Ichihara, Issey, 4,648,705, Cl. 355-15.000.
Tachibana, Natsuki; and Ichihara, Issey, 4,691,663, Cl. 118-658.000.
Tahata, Masahiro; and Washizu, Hirokazu, 4,648,811, Cl. 417-410.000.
Takada, Kousuke; and Kousaka, Akira, 4,705,989, Cl. 315-39.510.
Takada, Tomoji, 4,667,310, Cl. 365-154.000.
Takagi, Eizi, 4,707,012, Cl. 294-64.100.
Takagi, Shiro, 4,653,021, Cl. 364-900.000.
Takahashi, Tomohiko, 4,639,742, Cl. 346-76.0PH.
Takamura, Yoshio; and Nakajima, Akira, 4,660,138, Cl. 363-61.000.
Takamura, Yoshio; and Nakajima, Akira, 4,667,280, Cl. 363-61.000.
Takamura, Yoshio; and Nakajima, Akira, 4,675,795, Cl. 363-61.000.
Takamura, Yoshio; and Nakajima, Akira, 4,716,512, Cl. 363-61.000.
Takaoka, Takashi; Koyahara, Satoru; and Saito, Tetsuo, 4,682,321, Cl. 369-284.000.
Takashima, Shigekazu; and Sakamoto, Tsutomu, 4,701,864, Cl. 364-521.000.
Takayama, Satoshi, 4,671,853, Cl. 156-659.100.
Takebayashi, Hiroaki; Harumi, Fujio; Nakamura, Kiyoshi; and Inoue, Koichi, 4,634,300, Cl. 384-548.000.
Takeda, Hiromitsu; Nakahashi, Masako; Shirokane, Makoto; Tsuge, Akihiko; and Suzuki, Tekao, 4,685,607, Cl. 228-193.000.
Takeda, Tamio; Gokyu, Toshio; Mizutani, Yuji; and Nakashima, Jun, 4,678,954, Cl. 310-156.000.
Takenaka, Shigeo; Koike, Norio; Itou, Takeo; and Matsuda, Hidemi, 4,692,659, Cl. 313-402.000.
Takenaka, Shigeo; Kamohara, Eiji; and Nishimura, Takashi, 4,712,038, Cl. 313-2.100.
Takenaka, Shigeo; and Kamohara, Eiji, 4,712,043, Cl. 315-15.000.
Takenaka, Shigeo; Kamohara, Eiji; and Nishimura, Takashi, 4,714,856, Cl. 313-2.100.
Takeno, Shozo; Shimizu, Toshio; and Saito, Takashi, 4,680,593, Cl. 346-76.0PH.
Takeoka, Yoshikatsu; Ozawa, Norio; and Yasuda, Nobuaki, 4,663,008, Cl. 204-192.260.
Takeoka, Yoshikatsu; Ozawa, Norio; and Yasuda, Nobuaki, 4,702,991, Cl. 430-270.000.
Takesako, Sumiyoshi, 4,641,239, Cl. 364-408.000.
Taketani, Mitsuhiro, 4,702,632, Cl. 400-639.100.
Takeuchi, Seiji, 4,639,682, Cl. 329-50.000.
Tamada, Masuo, 4,641,753, Cl. 209-546.000.
Tamari, Masumi, 4,682,089, Cl. 318-568.000.
Tamaru, Kiichiro, 4,707,833, Cl. 371-15.000.
Tamura, Hiroshi; and Nakaie, Yutaka, 4,694,282, Cl. 340-539.000.
Tamura, Masafumi; Uchiyama, Arisa; Kondo, Takashi; and Kageyama, Satoshi, 4,709,264, Cl. 358-93.000.
Tanabe, Toshiyuki; and Noguchi, Minoru, 4,672,639, Cl. 375-118.000.
Tanabe, Toshiyuki; and Noguchi, Minoru, 4,688,094, Cl. 358-148.000.
Tanabe, Toshiyuki, 4,712,131, Cl. 358-142.000.
Tanaka, Koichi; and Itoh, Satoshi, 4,715,050, Cl. 375-111.000.
Tanaka, Shigeru, 4,663,702, Cl. 363-65.000.
Tanaka, Shigeru, 4,670,826, Cl. 363-10.000.
Tanaka, Shigeru, 4,673,823, Cl. 307-11.000.
Tanaka, Shigeru, 4,674,026, Cl. 363-160.000.
Tanaka, Shigeru; and Takagi, Isamu, 4,684,766, Cl. 174-115.000.
Tanaka, Sumio; Saito, Shinji; and Atsumi, Shigeru, 4,692,902, Cl. 365-210.000.
Tanaka, Sumio; Saito, Shinji; Atsumi, Shigeru; and Ohtsuka, Nobuaki, 4,694,429, Cl. 365-189.000.
Tanaka, Yoshio; and Onodera, Toshihiro, 4,680,534, Cl. 323-290.000.
Tanaka, Yutaka; and Iseki, Hidemi, 4,704,545, Cl. 307-236.000.
Tanimoto, Akira, 4,644,307, Cl. 335-16.000.
Tanimoto, Yasufumi, 4,681,425, Cl. 355-14.0CU.
Tanno, Yoshikazu, 4,700,169, Cl. 338-21.000.
Tatsumi, Hisao; Kayata, Haruhiko; Yamamori, Kenji; Kakizawa, Toshio; and Mogi, Toshiaki, 4,712,115, Cl. 346-76.0PH.
Taya, Akira; Narita, Kazuo; Hagiwara, Yasuhiko; and Hatakeyama, Keiji, 4,663,563, Cl. 313-487.000.
Terada, Toshiyuki, 4,645,563, Cl. 156-643.000.
Tezuka, Hideharu, 4,644,183, Cl. 307-268.000.
Thanh, Truong D., 4,673,660, Cl. 501-135.000.
Toba, Akira; and Mizusawa, Tsutomu, 4,656,537, Cl. 360-73.000.
Tokita, Kiyoshi; Nakamura, Michio; and Urata, Hiroshi, 4,652,792, Cl. 313-404.000.
Tokita, Kiyoshi, 4,671,776, Cl. 445-51.000.
Tomita, Seiji, 4,669,012, Cl. 360-105.000.
Tomita, Toyofumi, 4,644,799, Cl. 73-861.120.
Tomita, Toyofumi, 4,658,653, Cl. 73-861.120.
Toshimitsu, Kenshi; and Kohayakawa, Hiromasa, 4,711,555, Cl. 355-14.00R.
Toyoda, Eiji; and Hayashi, Soichiro, 4,713,722, Cl. 361-141.000.
Toyoda, Keiji; and Suma, Sei, 4,697,430, Cl. 62-209.000.
Tsuchiya, Akira, 4,653,082, Cl. 378-101.000.
Tsuchiya, Akira, 4,670,893, Cl. 378-105.000.
Tsuchiya, Akira, 4,700,372, Cl. 378-105.000.
Tsuchiya, Akira, 4,710,860, Cl. 363-28.000.
Tsugaru, Kazunori; and Sugimoto, Yasuhiro, 4,713,600, Cl. 323-351.000.
Tsugita, Kousaku, 4,664,542, Cl. 400-124.000.
Tsujimoto, Jun-ichi, 4,679,196, Cl. 371-51.000.
Tsunekawa, Shou; and Harada, Nozomu, 4,675,535, Cl. 250-578.000.
Tsuneki, Yukio, 4,660,998, Cl. 400-61.000.
Tsuneki, Yukio, 4,660,999, Cl. 400-61.000.
Tsutsumi, Teruo, 4,639,739, Cl. 346-76.0PH.
Tsutsumi, Teruo; Ikeda, Sadao; and Takagi, Toshio, 4,660,053, Cl. 346-76.0PH.
Tsutsumi, Teruo, 4,675,698, Cl. 346-76.0PH.
Tsuzuki, Mitsuo, 4,675,592, Cl. 323-313.000.
Uchida, Kohachi; Shibuya, Kunihiro; and Nakamura, Hajime, 4,678,314, Cl. 355-5.000.
Uchida, Yukimasa, 4,710,905, Cl. 365-229.000.
Umezawa, Toshimitsu, 4,654,709, Cl. 358-166.000.
Umezawa, Toshimitsu, 4,658,295, Cl. 358-166.000.
Umezawa, Toshimitsu, 4,679,065, Cl. 358-29.000.
Umezu, Kenji, 4,656,571, Cl. 363-37.000.
Urata, Masami, 4,688,137, Cl. 361-141.000.
Urui, Kiyoshi; Ishikawa, Kiyoshi; and Okano, Michiaki, 4,635,251, Cl. 370-67.000.
Urushibata, Yukio; and Shiraogawa, Yukio, 4,653,110, Cl. 382-41.000.
Ushiki, Hiroshi; and Iwasaki, Tetsuaki, 4,701,748, Cl. 340-365.00S.
Ushiku, Yukihiro, 4,661,721, Cl. 307-269.000.
Uzawa, Sumiyo; Fujiwara, Tetsuo; Suzuki, Isao; and Endo, Akira, 4,652,157, Cl. 400-124.000.
Waatanabe, Junji, 4,710,016, Cl. 355-4.000.
Wada, Tetsuro; and Ohkubo, Yasuo, 4,716,323, Cl. 307-594.000.
Washizuka, Syoichi; Watanabe, Masayuki; Yashiro, Sadao; and Nakanishi, Masae, 4,686,091, Cl. 422-249.000.
Watanabe, Junji, 4,634,260, Cl. 355-7.000.
Watanabe, Junji, 4,638,330, Cl. 346-76.0PH.
Watanabe, Junji, 4,638,331, Cl. 346-76.0PH.
Watanabe, Junji, 4,644,370, Cl. 346-76.0PH.
Watanabe, Junji, 4,645,192, Cl. 271-9.000.
Watanabe, Junji, 4,645,333, Cl. 355-30.000.
Watanabe, Junji, 4,647,180, Cl. 355-3.0DD.
Watanabe, Junji, 4,649,437, Cl. 358-286.000.
Watanabe, Junji, 4,651,224, Cl. 358-285.000.
Watanabe, Junji, 4,652,113, Cl. 355-3.0DD.
Watanabe, Junji, 4,653,899, Cl. 355-14.00R.
Watanabe, Junji; and Oushiden, Hideshi, 4,655,580, Cl. 355-7.000.
Watanabe, Junji, 4,655,585, Cl. 355-61.000.
Watanabe, Junji; and Ogura, Masahiko, 4,657,375, Cl. 355-14.00R.
Watanabe, Junji, 4,666,288, Cl. 355-14.00R.
Watanabe, Junji, 4,672,394, Cl. 346-76.0PH.
Watanabe, Junji, 4,676,678, Cl. 400-208.000.
Watanabe, Junji, 4,678,315, Cl. 355-7.000.
Watanabe, Junji, 4,685,794, Cl. 355-7.000.
Watanabe, Junji, 4,689,693, Cl. 358-285.000.
Watanabe, Junji, 4,690,543, Cl. 355-4.000.
Watanabe, Junji, 4,692,021, Cl. 355-14.00R.
Watanabe, Junji, 4,695,151, Cl. 355-3.00R.
Watanabe, Junji, 4,695,154, Cl. 355-8.000.
Watanabe, Junji, 4,695,897, Cl. 358-296.000.
Watanabe, Junji, 4,696,564, Cl. 355-14.00R.
Watanabe, Junji; and Matsuyama, Kozo, 4,699,501, Cl. 355-14.00R.
Watanabe, Junji, 4,702,631, Cl. 400-208.000.
Watanabe, Junji, 4,705,394, Cl. 355-3.0DD.
Watanabe, Junji, 4,708,486, Cl. 358-296.000.
Watanabe, Junji, 4,711,553, Cl. 355-4.000.
Watanabe, Junji, 4,711,557, Cl. 355-14.00R.
Watanabe, Masayuki; and Yashiro, Sadao, 4,668,481, Cl. 422-249.000.
Watanabe, Mutsumi, 4,635,293, Cl. 382-44.000.
Watanabe, Toru, 4,659,449, Cl. 204-298.000.
Watanabe, Yoshimi; Umeoka, Norihiro; and Kuroda, Hiroshi, 4,661,890, Cl. 362-217.000.
Yagasaki, Eriko; Kanda, Motoya; Mitsuyasu, Kiyoshi; and Sato, Yuji, 4,696,873, Cl. 429-59.000.
Yamada, Hisashi; and Ohgoshi, Seiichi, 4,705,941, Cl. 250-201.000.
Yamada, Kazuhiko, 4,682,271, Cl. 361-409.000.
Yamada, Takehito; and Sugaya, Toshihiro, 4,636,885, Cl. 360-78.000.
Yamada, Teturo; and Nonaka, Hikaru, 4,646,536, Cl. 62-234.000.
Yamagami, Nobuhiko, 4,648,050, Cl. 364-526.000.
Yamagami, Nobuhiko, 4,703,230, Cl. 315-364.000.
Yamaguchi, Noboru, 4,716,405, Cl. 340-723.000.
Yamaki, Bunshiro; Kikuchi, Sadatake; and Tomisawa, Yutaka, 4,680,569, Cl. 338-42.000.
Yamamoto, Naofumi; Sekizawa, Hidekazu; and Saito, Tutomu, 4,672,433, Cl. 358-80.000.
Yamamoto, Naofumi, 4,675,704, Cl. 346-160.000.
Yamanaka, Junichi, 4,686,562, Cl. 358-32.000.
Yamanaka, Junichi, 4,701,786, Cl. 358-32.000.
Yamanishi, Eiichi, 4,670,795, Cl. 358-296.000.
Yamanishi, Eiichi, 4,695,896, Cl. 358-296.000.
Yamashita, Kiyoshi; Aoshima, Terutaka; Narita, Ryuuho; and Imai, Masahiro, 4,695,710, Cl. 219-506.000.
Yamashita, Kiyoshi, 4,699,766, Cl. 422-64.000.
Yamashita, Mitsuo; Tomimori, Kiyoshi; and Egawa, Jiro, 4,669,717, Cl. 271-186.000.
Yamaura, Mitsuru; and Fujisawa, Norio, 4,695,931, Cl. 363-8.000.
Yamaura, Mitsuru; Inagaki, Junichi; and Ito, Hachidai, 4,709,295, Cl. 361-80.000.

Yamazaki, Hidetoshi; and Inoue, Masatsugu, 4,700,104, Cl 313-407.000.
Yamazaki, Mutsuki, 4,656,110, Cl. 430-57.000.
Yamazaki, Mutsuki, 4,666,803, Cl. 430-57.000.
Yamazaki, Mutsuki, 4,716,089, Cl. 430-57.000.
Yamazaki, Mutsuki, 4,716,090, Cl. 430-65.000.
Yanabu, Satoru; Mizoguchi, Hitoshi; Ikeda, Hisatoshi; Suzuki, Katsumi; Toyoda, Mitsuru; and Thuries, Edmond, 4,665,289, Cl. 200-148.00A.
Yanagida, Seiichi; Kiuchi, Takao; and Kasami, Hiroyuki, 4,654,729, Cl. 360-93.000.
Yanagihara, Masanobu, 4,658,605, Cl. 68-23.500.
Yano, Masahiko, 4,664,122, Cl. 128-660.000.
Yasuda, Hiroshi, 4,687,949, Cl. 307-246.000.
Yasuda, Hiroshi; Ochii, Kiyofumi; and Masuoka, Fujio, 4,687,954, Cl. 307-279.000.
Yasuda, Kazuyuki; and Suzuki, Sigeo, 4,703,021, Cl. 501-87.000.
Yokoyama, Hirotaka; Ido, Tadashi; Maeda, Tatsumi; and Kurisu, Shunji, 4,699,771, Cl. 423-138.000.
Yokoyama, Katsunori; and Tanuma, Chiaki, 4,689,516, Cl. 310-317.000.
Yoshida, Tadatoki; and Natori, Kouji, 4,646,333, Cl. 378-4.000.
Yoshihara, Kunio; Sudo, Toshio; Iida, Atsuko; Miyagi, Takeshi; Saito, Tamio; and Oe, Shigeyuki, 4,644,093, Cl. 174-36.000.
Yoshii, Jiro; Komatsu, Akira; and Ishii, Hiroshi, 4,680,720, Cl. 364-521.000.
Yoshimaru, Tomohisa, 4,641,294, Cl. 369-32.000.
Yoshino, Teruo; and Itoh, Katsuro, 4,680,691, Cl. 363-51.000.
Yoshizawa, Hisayasu, 4,635,036, Cl. 340-347.0AD.
Yoshizawa, Shuji; Mitani, Wataru; Yamamoto, Mariko; Sanjoh, Akira; and Ikezue, Tatsuya, 4,678,731, Cl. 430-65.000.
Yoshizawa, Shuji, 4,704,343, Cl. 430-66.000.
Yoshizawa, Shuji; Mitani, Wataru; Yamamoto, Mariko; Sanjoh, Akira; and Ikezue, Tatsuya, 4,713,308, Cl. 430-65.000.
Yuge, Yooji; Ishizaki, Ariyoshi; Saito, Tokuyoshi; and Ishii, Takeshi, 4,634,919, Cl. 313-113.000.

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  Anahara, Meiji; Mizuno, Yoshikatsu; Hirano, Mitsutoshi; and Gomi, Fukuo, 4,671,336, Cl. 164-110.000.
  Anahara, Meiji; Muramatsu, Shigeru; Takagi, Isamu; and Tuboi, Masayoshi, 4,672,804, Cl. 57-401.000.
  Futamura, Kenichiro; Ohtsu, Keiichiro; Fukuoka, Tatsuhiko; Takenaka, Kenji; Itakura, Yoshio; and Koga, Hiroshi, 4,641,570, Cl. 92-71.000.
  Ikimi, Yoshihiro; and Tsukada, Osamu, 4,706,781, Cl. 187-9.00E.
  Inagaki, Mitukane; Ohta, Masaki; Hyodo, Akihiko; Takenaka, Kenji; Mitubata, Takashi; Suzuki, Shinichi; and Kayukawa, Hiroaki, 4,712,982, Cl. 417-222.000.
  Iwaki, Takashi; and Hayashi, Takashi, 4,676,331, Cl. 180-79.100.
  Kaku, Yoshihiro; and Otsu, Keiichiro, 4,662,267, Cl. 92-71.000.
  Kawai, Katsunori; Deguchi, Hiroyuki; Kobayashi, Hisao; and Sugizono, Shuichi, 4,669,272, Cl. 62-228.300.
  Kawai, Katsunori; Kobayashi, Hisao; Deguchi, Hiroyuki; and Sugizono, Shuichi, 4,709,555, Cl. 62-228.300.
  Kobayashi, Hisao; Kawai, Katsunori; and Deguchi, Hiroyuki, 4,691,526, Cl. 62-217.000.
  Kudo, Takumi, 4,700,757, Cl. 141-311.00R.
  Mitsuya, Kinpei; and Iwasaki, Mitsuhiro, 4,644,980, Cl. 139-435.000.
  Narita, Toshihide; Yamada, Masatoshi; and Yasuda, Eiichi, 4,675,827, Cl. 364-478.000.
  Noguchi, Yoshikazu; Yokoi, Tatsuhisa; Takeya, Eisaku; and Osawa, Hideyuki, 4,648,373, Cl. 123-568.000.
  Ohta, Masaki; Suzuki, Shinichi; and Takenaka, Kenji, 4,674,957, Cl. 417-222.000.
  Ota, Shuji; and Nishio, Toshihiro, 4,653,342, Cl. 74-473.00R.
  Ota, Shuji; and Nishio, Toshihiro, 4,674,769, Cl. 280-775.000.
  Sakata, Masataka; Takasu, Shigeo; and Ikimi, Yoshihiro, 4,683,987, Cl. 187-9.00E.
  Shinoda, Akibumi; Yoshioka, Yukio; and Kato, Akio, 4,657,471, Cl. 414-663.000.
  Suzuki, Shigeru; Ohta, Masaki; and Takenaka, Kenji, 4,687,419, Cl. 417-222.000.
  Suzuki, Shinichi; Takenaka, Kenji; and Ohta, Masaki, 4,688,997, Cl. 417-222.000.
  Takenaka, Kenji; Ohta, Masaki; and Kayukawa, Hiroaki, 4,685,866, Cl. 417-222.000.
  Takenaka, Kenji; Suzuki, Shinichi; Kayukawa, Hiroaki; and Ohta, Masaki, 4,702,677, Cl. 417-222.000.
  Terasaki, Kazunori, 4,635,686, Cl. 139-116.000.
  Tsunekawa, Masaru; Naito, Yoshihiro; Hyodo, Masaya; and Hayashi, Tatsuya, 4,706,457, Cl. 60-521.000.
  Yamauchi, Yasuhisa, 4,661,794, Cl. 338-315.000.
  Yokoi, Tatsuhisa; Takeya, Eisaku; Hattori, Kyo; Abe, Kazuo; and Osawa, Hideyuki, 4,672,939, Cl. 123-568.000.
  Yoshikawa, Seiji; Sato, Isao; Nakayama, Shigenori; and Amazaki, Mitsuhiro, 4,697,498, Cl. 91-420.000.

Kabushiki Kaisha Toyosha Seisakusho: *See—*
  Kazuyuki, Ishii; Yoshio, Ebe; and Shuji, Fujieda, 4,643,470, Cl. 292-216.000.

Kabushiki Kaisha Toyota Chuo Kenkyusho: *See—*
  Aoyama, Taro; and Oshima, Yujiro, 4,641,617, Cl. 123-262.000.
  Arai, Tohru; and Endo, Junji, 4,686,117, Cl. 427-249.000.
  Arakawa, Hideo; Sugiyama, Gunji; Tange, Koichi; Hongo, Takero; Yamamoto, Yuzo; and Ohba, Hiroyuki, 4,700,302, Cl. 364-424.000.
  Asano, Katsuhiro; Inaguma, Yukio; and Iwama, Norio, 4,641,075, Cl. 318-811.000.
  Azuma, Hidekazu; Yoshinaka, Ryozi; Tsuruhashi, Takayuki; Hokao, Katsuiku; Watanabe, Kazuki; Ogo, Kazutaka; Suzuki, Takatoshi; and Hayashi, Masahiro, 4,656,868, Cl. 73-587.000.
  Doi, Shunichi; Sugiura, Noboru; Hayashi, Yasutaka; and Yamamoto, Yuzo, 4,700,971, Cl. 280-707.000.
  Hasegawa, Junzo; Kawabata, Susumu; and Mimura, Nobuharu, 4,657,413, Cl. 384-524.000.
  Hasegawa, Junzo; Kawabata, Susumu; and Mimura, Nobuharu, 4,681,492, Cl. 409-231.000.
  Homma, Takahiko; and Wada, Shigetaka, 4,692,099, Cl. 416-229.00A.
  Kamigaito, Osami; Doi, Haruo; Noda, Shoji; and Yamamoto, Nobuyuki, 4,645,115, Cl. 228-121.000.
  Kamigaito, Osami; Noda, Shoji; and Doi, Haruo, 4,673,587, Cl. 427-38.000.
  Kamigaito, Osami; Doi, Haruo; Noda, Shoji; Hioki, Tatsumi; Itoh, Akio; and Kakeno, Mitsutaka, 4,678,678, Cl. 427-38.000.
  Kamigaito, Osami; Doi, Haruo; and Noda, Shoji, 4,697,325, Cl. 29-447.000.
  Kato, Takayuki, 4,686,857, Cl. 73-304.00R.
  Miki, Kazuo; Fukui, Katsuhiko; Hayashi, Yasutaka; Ishiguro, Michio; Sumi, Kazumasa; and Takei, Kazukata, 4,669,745, Cl. 280-91.000.
  Miki, Kazuo; Hayashi, Yasutaka; Fukui, Katsuhiko; and Sumi, Kazumasa, 4,700,960, Cl. 280-91.000.
  Nakamura, Yoshio; Sugiyama, Susumo; Nishizawa, Jun-ichi; and Ohmi, Tadahiro, 4,692,789, Cl. 357-74.000.
  Narita, Toshihide; Yamada, Masatoshi; and Yasuda, Eiichi, 4,675,827, Cl. 364-478.000.
  Nonomura, Yutaka; Sugiyama, Jun; Komatsubara, Hirofumi; and Takeuchi, Masaharu, 4,697,459, Cl. 73-862.360.
  Ogo, Kazutaka; Hayashi, Masahiro; Suzuki, Takatoshi; Hokao, Katsuiku; Asai, Akio; and Tsuruhashi, Takayuki, 4,709,198, Cl. 318-571.000.
  Ohsawa, Katsuyuki; Kawazoe, Hiromitsu; and Nagano, Susumu, 4,676,216, Cl. 123-533.000.
  Saito, Akinori; Yamada, Masatoshi; Imai, Kenji; Kawamura, Kiyomi; and Kimura, Masanobu, 4,685,432, Cl. 123-276.000.
  Saito, Tsutomu; Hasegawa, Yoshimichi; Yoshikawa, Kazuo; and Aoyama, Shigetsune, 4,637,594, Cl. 267-47.000.
  Satta, Kozo; Hasegawa, Hideo; and Kimura, Mareo, 4,655,892, Cl. 204-192.150.
  Shiroshita, Osamu; Ishiguro, Yasuo; and Itou, Yoshizumi, 4,712,183, Cl. 364-513.000.
  Sugiyama, Jun; Komatsubara, Hirofumi; Shimaoka, Keiichi; Takeuchi, Masaharu; and Takeuchi, Takashi, 4,697,460, Cl. 73-862.360.
  Sugiyama, Katsuhiko; Kawazoe, Hiromitsu; and Idota, Yoshinori, 4,693,215, Cl. 123-188.00M.
  Sugiyama, Susumu, 4,654,621, Cl. 338-5.000.
  Suzuki, Kenichi; Miura, Fusayoshi; and Shimizu, Fumio, 4,655,385, Cl. 228-223.000.
  Suzuki, Kenichi; Miura, Fusayoshi; and Shimizu, Fumio, 4,670,067, Cl. 148-26.000.
  Suzuki, Kenichi; Miura, Fusayoshi; and Shimizu, Fumio, 4,689,092, Cl. 148-26.000.
  Suzuki, Kenichirou; Fujitani, Yoshiyasu; Yoshimoto, Taisuke; and Muraki, Hideaki, 4,661,329, Cl. 423-245.000.
  Suzuki, Takatoshi; Takada, Yasuo; Sakakibara, Yuji; Sugiura, Masahiro; Hayashi, Hiroaki; and Kamigaito, Osami, 4,691,756, Cl. 164-361.000.
  Tabata, Osamu; Inagaki, Hazime; and Kitano, Tomoyuki, 4,680,963, Cl. 73-204.000.
  Tajima, Ichiro; and Yamamoto, Minoru, 4,649,071, Cl. 428-212.000.
  Takahashi, Hideaki; Kondo, Haruyoshi; Takeuchi, Takashi; and Hayakawa, Kiyoharu, 4,661,234, Cl. 204-406.000.
  Yonekura, Koji; Suzuki, Kenichi; Takahashi, Yoshiyasu; and Iwahori, Hiroaki, 4,643,241, Cl. 164-101.000.

Kabushiki Kaisha Toyota Chuo Kenkyusho and Narumi: *See—*
  Sugiyama, Susumu; Nakamura, Yoshio; Ohno, Harunobu; and Kamiya, Tokimasa, 4,672,417, Cl. 357-67.000.

Kabushiki Kaisha Tsmurajuntendo: *See—*
  Kooda, Akihide; Nishioka, Itsuo; Nishiyori, Takeshi; and Yahara, Shoji, 4,650,813, Cl. 514-701.000.

Kabushiki Kaisha Tsuchiya Seisakusho: *See—*
  Suzuki, Mitsutoshi; Morita, Yoshitaka; Okada, Masami; and Shimohara, Jun, 4,710,797, Cl. 210-493.200.
  Tejima, Masahiro; and Nojima, Yoshimitsu, 4,669,532, Cl. 165-36.000.
  Yogo, Takeji; Nakagaki, Akitsuna; and Miyazawa, Akio, 4,653,581, Cl. 165-166.000.
  Yogo, Takeji; Nakagaki, Akitsuna; Miyazawa, Akio; Mitomo, Takeshi; and Ichihara, Takayuki, 4,708,199, Cl. 165-167.000.

Kabushiki Kaisha Tsukasa Sokken: *See—*
  Aramaki, Yuichiro, 4,686,846, Cl. 73-23.000.

Kabushiki Kaisha Ueno Seiyaku Oyo Kenkyujo: *See—*
  Ueno, Ryuzo; Kanayama, Tatsuo; Fujita, Yatsuka; and Yamamoto, Munemitsu, 4,647,458, Cl. 424-128.000.
  Ueno, Ryuzo; Itoh, Shigeru; Fujimoto, Shine; Komatsu, Yumiko; and Tsuchiya, Hiroaki, 4,655,844, Cl. 106-309.000.
  Ueno, Ryuzo; Sakota, Kazuyuki; and Nakamura, Yasunori, 4,684,712, Cl. 528-190.000.

Kabushiki Kaisha Universal: *See—*
  Clarke, George, 4,669,731, Cl. 273-143.00R.
  Hamada, Norihiko, 4,637,611, Cl. 273-143.00R.

Kimura, Yutaka, 4,634,126, Cl. 273-129.00S.
Okada, Kazuo, 4,657,247, Cl. 273-1.00E.
Okada, Kazuo, 4,657,256, Cl. 273-143.00R.
Okada, Kazuo, 4,679,789, Cl. 273-1.00E.
Okada, Kazuo, 4,687,981, Cl. 318-696.000.
Okada, Kazuo, 4,700,948, Cl. 273-143.00R.
Okada, Kazuo, 4,715,604, Cl. 273-143.00R.
Kabushiki Kaisha Yagishita: *See—*
Yagishita, Koichi; Iriyama, Yasunori; and Hirose, Mitsumasa, 4,686,043, Cl. 210-387.000.
Kabushiki Kaisha Yakult Honsha: *See—*
Tsuru, Daisuke; Yoshimoto, Tadashi; Hagiwara, Hisao; and Kado, Kunio, 4,687,778, Cl. 514-419.000.
Kabushiki Kaisha Yamazaki: *See—*
Yamazaki, Yoshio, 4,644,825, Cl. 74-813.00R.
Kabushiki Kaisha Yaskawa Denki Seisakusho: *See—*
Nagasaka, Nagahiko, 4,703,297, Cl. 335-222.000.
Nagasaka, Nagahiko, 4,705,971, Cl. 310-12.000.
Nagasaka, Nagahiko, 4,706,007, Cl. 318-687.000.
Kabushiki Kaishi Miyanaga: *See—*
Miyanaga, Masaaki, 4,635,737, Cl. 175-284.000.
Kabushiki-Kaishi Tokyo Emix: *See—*
Suzuki, Shouzou, 4,651,966, Cl. 248-674.000.
Kabushiki Kaishi Toshiba: *See—*
Tojo, Toru; and Tabata, Mitsuo, 4,698,513, Cl. 250-561.000.
Kabushiki Kaisya Advance Kaihatsu Kenkyujo: *See—*
Ando, Shimon, 4,713,985, Cl. 74-804.000.
Imai, Hideki; and Sasaki, Minoru, 4,633,884, Cl. 128-696.000.
Kawai, Yasuo; and Shimohashi, Hirotaka, 4,710,379, Cl. 424-93.000.
K.K. Toyota Chuo Kenkyusho: *See—*
Oshima, Yujiro; Yamada, Masatoshi; Mori, Nobuyuki; Sugiyama, Katsuhiko; Aoyama, Taro; Saito, Akinori; and Kozuka, Kazuhiro, 4,633,830, Cl. 123-276.000.
K.K. Yokoyama Zosen Sekkei Jimusho: *See—*
Yokoyama, Akira, 4,671,201, Cl. 114-102.000.
Kabushikigaisha Iwasa Tekkosho: *See—*
Tokita, Mamoru; and Nakano, Takeji, 4,662,804, Cl. 409-8.000.
Kabushikigaisha Tokyo Kikai Seisakusho: *See—*
Hatakeyama, Tetsuo; Uera, Yoshinori; and Nagao, Nobuaki, 4,715,553, Cl. 242-68.400.
Sato, Katsumi, 4,635,915, Cl. 270-49.000.
Kabushikikaisha Barudan: *See—*
Shibata, Yoshio, 4,665,844, Cl. 112-103.000.
Kabushikikaisha Hara Shokki Seisakusho: *See—*
Shimomura, Manabu, 4,672,717, Cl. 19-225.000.
Kabushikikaisha Kotobuki: *See—*
Kageyama, Hidehei; and Kuwabara, Yukimasa, 4,714,365, Cl. 401-65.000.
Kabushikikaisha Nippon Coinco: *See—*
Hayashi, Yukichi; Itako, Eiji; and Yasuhara, Masahiro, 4,654,800, Cl. 364-479.000.
Kabushikikaisha Shinsangyokaihatsu: *See—*
Kawata, Shoji; and Hyodo, Hitoshi, 4,646,861, Cl. 180-176.000.
Kabushikikaisha Tokyo Keiki: *See—*
Fukano, Michio; and Hojo, Takeshi, 4,649,748, Cl. 73-517.00B.
Hojo, Takeshi; Fukano, Michio; Saijo, Takashi; and Sato, Kazuteru, 4,653,325, Cl. 73-505.000.
Hojo, Takeshi; and Kawada, Shinichi, 4,669,323, Cl. 74-5.440.
Hojo, Takeshi; Kawada, Shin-Ichi; Fukano, Michio; Yamamoto, Kanshi; Okamura, Youji; Sato, Kazuteru; Saito, Masahiko; and Hane, Fuyuki, 4,694,696, Cl. 73-497.000.
Hojo, Takeshi; and Nakaishi, Takafumi, 4,708,024, Cl. 74-5.470.
Kabuskiki Kaisha Toshiba: *See—*
Ito, Hitoshi; and Moriya, Takahiko, 4,699,801, Cl. 427-53.100.
Kabuta, Kazuma: *See—*
Nitta, Koichi; Kabuta, Kazuma; Yamaguchi, Masami; Nakagawa, Tadahiro; and Moriyasu, Katsuyuki, 4,664,943, Cl. 427-58.000.
Kabuto, Hiroaki: *See—*
Takenaka, Kiyoshi; Ohtsuji, Masahiko; and Kabuto, Hiroaki, 4,707,117, Cl. 355-3.0SH.
Kachhy, Avinash, to Stauffer Chemical Company. Purification of substituted phthalic anhydrides. 4,650,880, 3-17-87, Cl. 549-240.000.
Kachhy, Avinash; and Barda, Henry J., to Stauffer Chemical Company. Photochlorination of aromatic compounds in the side chain. 4,689,425, 8-25-87, Cl. 560-103.000.
Kachi, Kenjiro; Onda, Hideaki; Hayashi, Yukichi; Yoshihara, Kenzo; Watabe, Masayuki; Akagawa, Masaki; and Mori, Yoshikazu, to Nipponcoinco Co., Ltd. Gift coupon detectable by bill sorter. 4,658,125, 4-14-87, Cl. 235-449.000.
Kachnik, Joseph L. Durable, high-strength proppant and method for forming same. 4,654,266, 3-31-87, Cl. 428-403.000.
Kacki, Marek: *See—*
Garza, Gilbert A.; and Kacki, Marek, 4,665,918, Cl. 128-343.000.
Kackman, Gerald M.: *See—*
Konicek, Lawrence R.; Case, Steven K.; and Kackman, Gerald M., 4,680,704, Cl. 364-525.000.
KACO GmbH & Co.: *See—*
Bucher, Hans; Heinrich, Richard; Hermann, Waldemar; and Seffler, Hans-Werner, 4,650,196, Cl. 277-152.000.
Kaczerginski, Alexandre, to Ceraver, S.A. Method of manufacturing a composite insulator. 4,702,873, 10-27-87, Cl. 264-135.000.
Kaczerowski, Andre, to Compagnie Industrielle des Telecommunications Cit-Alcatel. Digital satellite exchange. 4,689,783, 8-25-87, Cl. 370-56.000.
Kaczeus, Steven; and Ngo, Long V., to Seagate Technology. Helical band drive for disc storage apparatus. 4,654,736, 3-31-87, Cl. 360-106.000.
Kaczmarek, Wesley R.; Zador, Eugene; and Ravipati, Sitaramaiah, to Norton Company. Plural layered coated abrasive. 4,644,703, 2-24-87, Cl. 51-401.000.
Kaczmarek, Wesley R.: *See—*
Zador, Eugene; Kaczmarek, Wesley R.; and Ravipati, Sitaramaiah, 4,642,126, Cl. 51-295.000.
Kaczmarski, Edward Z.; and Grigsby, Richard, to BICC Public Limited Company. Honing tool. 4,676,028, 6-30-87, Cl. 51-105.00R.
Kaczmarzyk, Leonard M.: *See—*
Grube, Herbert E.; Sciaraffa, Michael A.; Kaspar, Mark L.; and Kaczmarzyk, Leonard M., 4,655,761, Cl. 604-389.000.
Kadaba, Pankaja K., to University of Kentucky Research Foundation, The. Triazoline anticonvulsant compounds and compositions. 4,689,334, 8-25-87, Cl. 514-340.000.
Kadar, Karoly: *See—*
Kolya, Tibor; Szoke, Bela; Kadar, Karoly; Foti, Gyorgy; and Gecsei, Zoltan, 4,655,317, Cl. 181-257.000.
Kadash, Marjory A., and Schwab, Frederick C., to Mobil Oil Corporation. Method for treating polymer surfaces by corona discharge and then with reducing agent and resulting article. 4,714,658, 12-22-87, Cl. 428-523.000.
Kaddis, George: *See—*
Lewellin, Richard L., 4,678,822, Cl. 524-12.000.
Kade, Alexander; Hopkins, Harland G.; and Salman, Mutasim A., to General Motors Corporation. Anti-lock brake control system. 4,664,453, 5-12-87, Cl. 303-100.000.
Kade, Alexander, to General Motors Corporation. Anti-lock brake control system. 4,673,225, 6-16-87, Cl. 303-100.000.
Kade, Alexander: *See—*
Agarwal, Paul D.; Hammersmith, Robert J.; and Kade, Alexander, 4,653,815, Cl. 303-100.000.
Graham, Donald E.; Kowalik, James J.; and Kade, Alexander, 4,665,488, Cl. 364-424.000.
Kadekodi, Narayan K.; Ibrahim, Abd-El-Fattah A.; Handy, Roland J.; and Tandon, Jagdish C., to Xerox Corporation. High density CCD imager. 4,712,137, 12-8-87, Cl. 358-213.290.
Kader, Rudolf: *See—*
Osterwald, Werner; Bottger, Klaus-Georg; and Kader, Rudolf, 4,698,896, Cl. 29-523.000.
Kadin, Alan: *See—*
Allred, David; Kadin, Alan; and Pai, Purnachandra, 4,702,955, Cl. 428-213.000.
Kadin, Joseph, to ITT Corporation. Frequency hopping data communication system. 4,653,068, 3-24-87, Cl. 375-1.000.
Kadin, Joseph, to ITT Defense Communications, a division of ITT Corporation. Time sharing frequency synthesizer. 4,694,466, 9-15-87, Cl. 375-1.000.
Kadin, Saul B., to Pfizer Inc. Intermediates for 1,3-disubstituted 2-oxindoles as analgesic and antiinflammatory agents. 4,658,037, 4-14-87, Cl. 548-486.000.
Kadin, Saul B., to Pfizer Inc. 1-acylcarbamoyloxindole-3-carboxamides as antiinflammatory agents. 4,678,802, 7-7-87, Cl. 514-418.000.
Kadin, Saul B., to Pfizer Inc. Analgesic and antiinflammatory 1,3-diacyl-2-oxindole compounds. 4,690,943, 9-1-87, Cl. 514-418.000.
Kadis, Paul M., to Teledyne Industries, Inc. Self-lubricating die cylinder. 4,688,775, 8-25-87, Cl. 267-119.000.
Kadis, Paul M., to Teledyne Industries, Inc. Self-lubricating die cylinder. 4,691,902, 9-8-87, Cl. 267-119.000.
Kadlec, Joseph, to Zenith Electronics Corporation. Monostable multivibrator for video display. 4,682,226, 7-21-87, Cl. 358-148.000.
Kadlec, Joseph; and Kociolek, Kenneth W., to Zenith Electronics Corporation. Dual intensity video circuit. 4,698,681, 10-6-87, Cl. 358-168.000.
Kadlubowski, Joseph C.: *See—*
Cors, Craig M.; and Kadlubowski, Joseph C., 4,710,742, Cl. 337-323.000.
Kadner, Steven P.: *See—*
Beckes, Jerome F.; Kadner, Steven P.; Franco, Miquel A.; and Campos, Robert G., 4,672,558, Cl. 364-518.000.
Kado, Clarence I.; Schnathorst, William C.; and Azad, Hamid R., to University of California, The Regents of the. Method of using *Bacillus polymyxa* 9A to protect plants against verticillium wilt. 4,663,162, 5-5-87, Cl. 424-92.000.
Kado, Kunio: *See—*
Tsuru, Daisuke; Yoshimoto, Tadashi; Hagiwara, Hisao; and Kado, Kunio, 4,687,778, Cl. 514-419.000.
Kado, Satoshi: *See—*
Okazaki, Susumu; Iizuka, Tokio; and Kado, Satoshi, 4,652,544, Cl. 502-208.000.
Okazaki, Susumu; and Kado, Satoshi, 4,666,882, Cl. 502-338.000.
Kadogawa, Kouji; and Watanabe, Tsunenori, to Leader Company Limited. Shoe making machine. 4,691,398, 9-8-87, Cl. 12-77.000.
Kadokawa, Toshiaki; Kawashima, Katsuyoshi; Uno, Hitoshi; and Hino, Katsuhiko, to Dainippon Pharmaceutical Co., Ltd. Anti-peptic ulcer agent. 4,677,107, 6-30-87, Cl. 514-254.000.
Kadokura, Hidekimi; Umezaki, Hiroshi; and Higuchi, Yoshihiro, to Sumitomo Chemical Company, Limited. Process for producing high purity metallic compound. 4,650,895, 3-17-87, Cl. 556-182.000.
Kadokura, Hidekimi; Umezaki, Hiroshi; and Murakami, Hideaki, to Sumitomo Chemical Company, Limited. Magnetic recording medium. 4,671,993, 6-9-87, Cl. 428-323.000.
Kadokura, Hidekimi; Umezaki, Hiroshi; Murakami, Hideaki; and Mizoe, Toshiyuki, to Sumitomo Chemical Company, Limited.

Method for producing lithium aluminate powders. 4,704,266, 11-3-87, Cl. 423-600.000.

Kadokura, Kenji: *See*—

Kaneko, Yutaka; Kimura, Toshihiko; and Kadokura, Kenji, 4,639,415, Cl. 430-558.000.

Kaneko, Yutaka; Kadokura, Kenji; Kimura, Toshihiko; Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; and Shinozaki, Kaoru, 4,675,280, Cl. 430-558.000.

Yamada, Hideo; Ichiki, Shigemi; Naniwa, Hisamoto; Uchida, Susumu; Kadokura, Kenji; Tsunoda, Susumu; and Nakajima, Kunio, 4,674,127, Cl. 383-6.000.

Kadokura, Norihisa, to Alliance Research Corporation. Vehicle window mount for portable antenna. 4,692,770, 9-8-87, Cl. 343-715.000.

Kadokura, Sadao; Honjo, Kazuhiko; Tomie, Takashi; and Naoe, Masahiko, to Teijin Limited. Perpendicular magnetic recording medium, method for producing the same, and sputtering device. 4,666,788, 5-19-87, Cl. 428-611.000.

Kadokura, Susumu; Sawayama, Ippei; Kato, Tomoaki; and Okamoto, Tadashi, to Canon Kabushiki Kaisha. Sheet coil. 4,709,221, 11-24-87, Cl. 336-200.000.

Kadoma, Yoshinori: *See*—

Yokoyama, Yuuichi; Masuhara, Eichi; Kadoma, Yoshinori; Tarumi, Niro; and Tsuchiya, Makoto, 4,650,843, Cl. 526-245.000.

Kadomatsu, Seiji: *See*—

Kamiya, Takeshi; Matsuura, Kazuo; Miyoshi, Mituji; Misumi, Kozo; Kadomatsu, Seiji; and Nose, Shinji, 4,652,616, Cl. 525-331.700.

Yamaoka, Noboru; Yokoyama, Shigeki; Matsuura, Kazuo; Misumi, Kozo; Watanabe, Junichi; and Kadomatsu, Seiji, 4,704,439, Cl. 525-334.100.

Kadomatsu, Yasuo: *See*—

Tajima, Shoji; Kadomatsu, Yasuo; Miyazaki, Yoshio; Sakurai, Michikazu; and Anze, Kimio, 4,707,382, Cl. 427-58.000.

Kadomura, Shingo, to Sony Corporation. Dry etching method for selectively etching silicon nitride existing on silicon dioxide. 4,654,114, 3-31-87, Cl. 156-643.000.

Kadonaga, Hiroshi: *See*—

Takahashi, Yoshifusa; Kadonaga, Hiroshi; Ishikawa, Satoshi; and Kikuchi, Junichi, 4,644,587, Cl. 455-601.000.

Kadono, Hiromitsu; and Natsuume, Tadao, to Nippon Zeon Co., Ltd. Novel water-soluble copolymer. 4,652,621, 3-24-87, Cl. 526-262.000.

Kadono, Hiromitsu; and Natsuume, Tadao, to Nippon Zeon Co. Ltd. Process for producing water-soluble acid amide compounds. 4,675,359, 6-23-87, Cl. 524-832.000.

Kadono, Kohji; and Tsunoda, Minoru, to Honda Giken Kogyo Kabushiki Kaisha. Vehicle body frame for motorcycles. 4,691,800, 9-8-87, Cl. 180-219.000.

Kadono, Masahiro: *See*—

Deguchi, Takashi; Kadono, Masahiro; and Naka, Shinji, 4,636,928, Cl. 363-41.000.

Kadono, Masaru; Nago, Kumio; Yamamoto, Tatsushi; Muramatsu, Tetsuro; Tsuchimoto, Shuuhei; Yoshikawa, Mitsuhiko; and Tomita, Masatoshi, to Sharp Kabushiki Kaisha. Production method of a high magnetic permeability alloy film. 4,702,935, 10-27-87, Cl. 427-42.000.

Kadono, Shinji: *See*—

Suzuki, Yukio; Masuda, Ikuro; Iwamura, Masahiro; Kadono, Shinji; Uragami, Akira; Yoshimura, Masayoshi; and Matsubara, Toshiaki, 4,689,503, Cl. 307-446.000.

Uragami, Akira; Suzuki, Yukio; Kadono, Shinji; Iwamura, Masahiro; Masuda, Ikuro; and Yamauchi, Tatsumi, 4,678,943, Cl. 307-473.000.

Kadonoff, Mark B.: *See*—

Maddox, James F.; Kadonoff, Mark B.; Berger, Alan D.; Taivalkoski, Amy L.; George, Robert W., II; and Benayad-Cherif, Faycal E., 4,710,020, Cl. 356-1.000.

Kadota, Shigekazu: *See*—

Nishihama, Takamichi; Okada, Kotaro; and Kadota, Shigekazu, 4,695,044, Cl. 269-21.000.

Kadota, Shozo: *See*—

Fujisawa, Hiromichi; Nakano, Yasuaki; Komatsu, Hitoshi; Kadota, Shozo; and Kurino, Kiyomichi, 4,654,873, Cl. 382-9.000.

Kadota, Yoichi, to NEC Corporation. Fluorescent display panel. 4,678,967, 7-7-87, Cl. 313-497.000.

Kadowaki, Hitoshi: *See*—

Kajioka, Yasuo; Komine, Tomio; Kadowaki, Hitoshi; Matsuda, Shigeyoshi; Yugami, Yoshinori; Kubota, Shinya; Takahashi, Yoshio; Shimada, Hiroshi; and Kurata, Nobutaka, 4,709,899, Cl. 249-20.000.

Kurihara, Susumu; Seki, Tadashi; Awata, Hiroshi; and Kadowaki, Hitoshi, 4,636,374, Cl. 423-385.000.

Kadowaki, Kohei: *See*—

Sato, Hiroshi; Kadowaki, Kohei; Naito, Kaoru; Toyoda, Kenji; and Tsuchihashi, Hidehisa, 4,704,617, Cl. 346-76.0PH.

Kadowaki, Minoru: *See*—

Suzuki, Yoshie; Koike, Kiichi; Kadowaki, Minoru; and Yoshinaka, Minoru, 4,659,636, Cl. 429-54.000.

Kadowaki, Takashi: *See*—

Sasaki, Masao; Kadowaki, Takashi; and Onodera, Kaoru, 4,692,399, Cl. 430-507.000.

Takada, Shun; Kadowaki, Takashi; and Onodera, Kaoru, 4,666,826, Cl. 430-549.000.

Kadoya, Atsushi: *See*—

Tsumura, Takeo; Iwai, Hiroji; and Kadoya, Atsushi, 4,708,505, Cl. 400-697.100.

Kadron, Don G.: *See*—

Mattern, John; and Kadron, Don G., 4,646,098, Cl. 342-14.000.

Kadunce, Leo, to Steeltin Can Corporation. Method and machine for convolute or spiral winding of composite materials. 4,710,252, 12-1-87, Cl. 156-195.000.

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Nevgod, Vasily A.; Garda, Alexandr P.; and Kadyrov, Valery K., 4,687,135, Cl. 239-81.000.

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Kaehler, Kristine M.; Krahe, Ronald P.; Miraldi, Peter T.; and McBride, Richard A., to American Sterilizer Company. Porous load vapor sterilization cycle. 4,687,635, 8-18-87, Cl. 422-26.000.

Kaelin, G. Robert: *See*—

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Kaelin, Joseph R. Installation for injecting oxygen into liquid media. 4,704,204, 11-3-87, Cl. 210-219.000.

Kaempen, Charles E. Composite twine structure. 4,680,923, 7-21-87, Cl. 57-251.000.

Kaempf, Karl; Zaehner, Paul; and Richter, Wolfgang, to Metrohm AG. Process and apparatus for quantitative and/or qualitative analysis of liquids. 4,715,237, 12-29-87, Cl. 73-864.620.

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Tullis, Barclay J.; Bailey, John S.; Gunawardena, D. R.; and Kaempf, Ulrich, 4,705,444, Cl. 414-226.000.

Kaempfe, Joerg; Meurer, Wolfgang; Kammel, Hans; and Nedwig, Otto, to VEB Kombinat Polygraph "Werner Lamberz" Leipzig. Device for cleaning cylinders of printing machines. 4,651,644, 3-24-87, Cl. 101-423.000.

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Kaeppel, Hanshelmut: *See*—

Woerner, Frank P.; Neumann, Peter; Mahnke, Harald; Lamprecht, Josef; Horn, Dieter; Turznik, Gerhard; Kraus, Friedrich; Kaeppel, Hanshelmut; and Heim, Eduard, 4,666,948, Cl. 521-105.000.

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Kaeseler, Werner. Method for reconditioning spot welding electrodes. 4,682,487, 7-28-87, Cl. 72-354.000.

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Rose, Gerard R.; Kaesler, Ralph W.; and Fong, Dodd W., 4,683,066, Cl. 210-734.000.

Wetegrove, Robert L.; and Kaesler, Ralph W., 4,687,807, Cl. 524-827.000.

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Yoshida, Masaru; Asano, Masaharu; Kaetsu, Isao; Nakai, Katsuyuki; Yamanaka, Hidetoshi; Shida, Keizo; and Shiraishi, Akira, 4,652,443, Cl. 424-487.000.

Kaettlitz, Wolfgang: *See*—

Hofmann, Franz; Trapp, Hans G.; Rietzscher, Rolf; Otto, Jurgen; Kaettlitz, Wolfgang; and Trinki, Gerd, 4,713,180, Cl. 210-773.000.

Kaffka, Karoly; Lezak, Tibor; Striker, Gyorgy; and Zeisel, Eva. Fountain mainly for indoor use. 4,705,216, 11-10-87, Cl. 239-18.000.

Kaffko, Leslie K., to American Can Company. Bottom profile. 4,655,358, 4-7-87, Cl. 220-66.000.

Kafka, James D.; and Baer, Thomas M., to Spectra-Physics, Inc. Synchronously pumped dye laser using ultrashort pump pulses. 4,646,308, 2-24-87, Cl. 372-25.000.

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Kafkis, N. H. Method and apparatus for filling a plurality of flexible pipette type vessels. 4,713,925, 12-22-87, Cl. 53-432.000.

Kafko Manufacturing Limited: *See*—

Kindness, William, 4,713,849, Cl. 4-496.000.

Kafrawy, Adel: *See*—

Bezwada, Rao S.; Shalaby, Shalaby W.; Newman, Hugh, Jr.; and Kafrawy, Adel, 4,643,191, Cl. 128-335.500.

Kafri, Oded: *See*—

Glatt, Ilana; Livnat, Aminadav; and Kafri, Oded, 4,639,132, Cl. 356-124.500.

Kaga, Eichi: *See*—

Yamazaki, Mutsuki; and Kaga, Eichi, 4,641,168, Cl. 357-30.000.

Kaga, Matasaburo; and Takeda, Toshio, to Aisin Seiki Kabushiki Kaisha. Roots type blower with reduced gaps between the rotors. 4,666,384, 5-19-87, Cl. 418-150.000.

Kaga, Toru: *See*—

Hagiwara, Takaaki; Kaga, Toru; and Masuda, Hiroo, 4,656,607, Cl. 365-182.000.

Yatsuda, Yuji; Hagiwara, Takaaki; Horiuchi, Masatada; Minami, Shinichi; and Kaga, Toru, 4,668,970, Cl. 357-23.500.

Kagabu, Shinzo: *See—*
- Kurahashi, Yoshio; Shiokawa, Kozo; Goto, Toshio; Kagabu, Shinzo; Matsumoto, Noboru; and Moriya, Koichi, 4,708,953, Cl. 514-166.000.
- Kurahashi, Yoshio; Shiokawa, Kozo; Kagabu, Shinzo; Sakawa, Shinji; and Moriya, Koichi, 4,710,518, Cl. 514-624.000.
- Shiokawa, Kozo; Tsuboi, Shinichi; Kagabu, Shinzo; and Moriya, Koichi, 4,647,570, Cl. 514-341.000.
- Shiokawa, Kozo; Kagabu, Shinzo; and Sakawa, Shinji, 4,670,599, Cl. 564-445.000.
- Shiokawa, Kozo; Tsuboi, Shinichi; Kagabu, Shinzo; and Moriya, Koichi, 4,678,795, Cl. 514-341.000.
- Shiokawa, Kozo; Tsuboi, Shinichi; Kagabu, Shinzo; and Moriya, Koichi, 4,680,294, Cl. 514-256.000.

Kagami, Masato: *See—*
- Enjo, Naonori; Yagi, Toshiharu; and Kagami, Masato, 4,664,846, Cl. 252-511.000.

Kagami, Mitsuharu: *See—*
- Miyagawa, Tuyoshi; Hibari, Eiko; and Kagami, Mitsuharu, 4,677,682, Cl. 382-7.000.

Kagami, Teruyuki: *See—*
- Murakami, Susumu; Kagami, Teruyuki; Yatsuo, Tsutomu; and Takahashi, Masaaki, 4,691,223, Cl. 357-51.000.

Kagan, Michael. Receptacle suspension means. 4,669,693, 6-2-87, Cl. 248-318.000.

Kagan, Neil. Balancing figure toy building blocks. 4,682,966, 7-28-87, Cl. 446-101.000.

Kagan, Vladimir M.: *See—*
- Maximov, Gennady K.; Brusnikin, Arkady F.; Belonosov, Vladimir I.; Popova, Roza A.; Fux, Vladimir S.; Kagan, Vladimir M.; Uralskaya, Silvia L.; and Orlova, Nadezhda P., 4,702,069, Cl. 57-417.000.

Kaganas, Jose; and Wallach, Stewart, to Sagaz Industries, Inc. Seat cover. 4,669,779, 6-2-87, Cl. 297-229.000.

Kaganov, Alan L.: *See—*
- Dumican, Barry L.; Kaganov, Alan L.; and Ritter, Thomas A., 4,633,873, Cl. 128-334.00R.

Kaganowicz, Grzegorz; Ipri, Alfred C.; and Crandall, Richard S., to RCA Corporation. Method of forming a dielectric film and semiconductor device including said film. 4,692,344, 9-8-87, Cl. 427-39.000.

Kaganowicz, Grzegorz; Enstrom, Ronald E.; and Robinson, John W., to RCA Corporation. Preparation of a surface for deposition of a passinating layer. 4,705,760, 11-10-87, Cl. 437-234.000.

Kagatani, Seiya; Hasumi, Shunji; Sonobe, Takashi; and Aruga, Masayoshi, to Yamanouchi Pharmaceutical Co., Inc. Pharmaceutical compositions for nasal administration comprising calcitonin and an absorption-promoting substance. 4,690,952, 9-1-87, Cl. 514-808.000.

Kagawa, Hirohiko; Kyotani, Yasuhiro; and Torii, Munetomo, to Matsushita Electric Works, Ltd. Epoxy resin encapsulating composition with enhanced moisture resistance and method for producing the same. 4,716,184, 12-29-87, Cl. 523-310.000.

Kagawa, Hiroshi, to Yuasa Battery Co. Ltd. Sodium-sulfur storage battery. 4,657,830, 4-14-87, Cl. 429-104.000.

Kagawa, Junichi; and Oshima, Takafumi, to NGK Spark Plug Co., Ltd. Spark plug. 4,670,684, 6-2-87, Cl. 313-141.000.

Kagawa, Junichi: *See—*
- Toya, Akihiro; Kagawa, Junichi; Yokota, Kazunori; and Mori, Hiroaki, 4,659,960, Cl. 313-141.000.

Kagawa, Kenichi, to Japan Tobacco Inc. System for controlling the proportion of leaf vein in tobacco raw material treating process. 4,641,265, 2-3-87, Cl. 364-153.000.

Kagawa, Kenichi, to Japan Tobacco & Salt Public Corporation, The. Control system for humidity controller of tobacco leaves. 4,709,708, 12-1-87, Cl. 131-302.000.

Kagawa, Yoshikatsu: *See—*
- Kunichika, Kenji; Kagawa, Yoshikatsu; Ohishi, Chikashi; Nakao, Sho; and Asao, Yasuzi, 4,673,627, Cl. 430-49.000.

Kagawa, Yoshimasa; and Nakazono, Kazushige, to Fanuc Ltd. Memory data holding circuit. 4,669,066, 5-26-87, Cl. 365-229.000.

Kagaya, Kenichi: *See—*
- Matsui, Shigekazu; Kagaya, Kenichi; Ushida, Masao; and Maruyama, Kouichi, 4,696,877, Cl. 430-5.000.

Kage, Kouzou; and Watanabe, Hiroshi, to NEC Corporation; and Nippon Telegraph & Telephone Public Corporation. Interference wave detection circuit for use in radio receiver. 4,635,298, 1-6-87, Cl. 455-295.000.

Kage, Kouzou, to NEC Corporation. Digital signal repeater including means for controlling a transmitter. 4,680,772, 7-14-87, Cl. 375-4.000.

Kage, Kouzou, to NEC Corporation. Received signal processing apparatus. 4,709,376, 11-24-87, Cl. 375-58.000.

Kagechika, Hiroshi; Tonouchi, Akira; and Kammel, Roland, to Nippon Kokan Kabushiki Kaisha. Method of electrodepositing a chromium alloy deposit. 4,673,471, 6-16-87, Cl. 204-44.500.

Kageler, Peter; Bostelmann, Rudolf; and Buhrmester, Olaf, to Korber AG. Method and apparatus for pneumatically transporting filter rod sections and the like. 4,710,066, 12-1-87, Cl. 406-29.000.

Kageno, Kenji: *See—*
- Ueda, Toshio; Kageno, Kenji; Shimizu, Kiyoshi; Hasegawa, Sakuro; and Harada, Susumu, 4,644,042, Cl. 526-204.000.
- Ueda, Toshio; Kageno, Kenji; and Harada, Susumu, 4,678,474, Cl. 8-543.000.

Kageorge, Pedro W., to B. F. Goodrich Company, The. Pneumatic deicers with inextensible threads. 4,687,159, 8-18-87, Cl. 244-134.00A.

Kager, Dennis L. Control circuit for varying power output of push-pull tube amplifiers. 4,636,740, 1-13-87, Cl. 330-123.000.

Kagerer, Franz, to Friedrich Deckel Aktiengesellschaft. Mechanism for clamping a second machine part which is supported movably with respect to a first machine part. 4,674,908, 6-23-87, Cl. 403-109.000.

Kagerer, Franz: *See—*
- Geiger, Michael; Finsterwalder, Bernd; and Kagerer, Franz, 4,648,172, Cl. 29-568.000.

Kageyama, Akira: *See—*
- Oda, Hiroyuki; and Kageyama, Akira, 4,714,058, Cl. 123-90.220.

Kageyama, Bunji: *See—*
- Sonoyama, Takayasu; Yagi, Shigeo; and Kageyama, Bunji, 4,696,897, Cl. 435-42.000.

Kageyama, Hidehei; and Suzuki, Takahiko, to Kotobuki & Co., Ltd. Writing instrument with weight actuation. 4,669,904, 6-2-87, Cl. 401-115.000.

Kageyama, Hidehei, to Kotobuki & Co., Ltd. Lead delivery mechanism for mechanical pencil. 4,676,684, 6-30-87, Cl. 401-65.000.

Kageyama, Hidehei, to Kotobuki & Co., Ltd. Mechanical pencil and method for assembling the same. 4,687,363, 8-18-87, Cl. 401-65.000.

Kageyama, Hidehei, and Kuwabara, Yukimasa, to Kabushikikaisha Kotobuki. Mechanical pencil. 4,714,365, 12-22-87, Cl. 401-65.000.

Kageyama, Hiroshi; Koyama, Katsuhide; and Fujiwara, Shigemi, to Kabushiki Kaisha Toshiba. Noise erasing apparatus for stimulable phosphor sheet. 4,703,178, 10-27-87, Cl. 250-327.200.

Kageyama, Hiroshi: *See—*
- Fujiwara, Shigemi; Koyama, Katsuhide; and Kageyama, Hiroshi, 4,659,929, Cl. 250-327.200.
- Fujiwara, Shigemi; Koyama, Katsuhide; and Kageyama, Hiroshi, 4,663,528, Cl. 250-327.200.
- Fujiwara, Shigemi; Koyama, Katsuhide; and Kageyama, Hiroshi, 4,672,184, Cl. 235-462.000.
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Kageyama, Kunio; and Takasugi, Sumio, to Yokohama Rubber Co., Ltd., The. Adhesive composition. 4,695,508, 9-22-87, Cl. 428-261.000.

Kageyama, Ryoichi: *See—*
- Yamada, Hiroyasu; Shiraishi, Motoatsu; Tazou, Ken; Nakamura, Mitsuki; Kageyama, Ryoichi; Namiki, Akira; and Sasagawa, Masaru, 4,658,626, Cl. 72-405.000.
- Yamada, Hiroyasu; Shiraishi, Motoatsu; Tazou, Ken; Nakamura, Mitsuki; Kageyama, Ryoichi; Namiki, Akira; and Sasagawa, Masaru, 4,682,685, Cl. 198-621.000.

Kageyama, Satoshi, to Kabushiki Kaisha Toshiba. X-ray image correction apparatus. 4,636,953, 1-13-87, Cl. 364-414.000.

Kageyama, Satoshi: *See—*
- Tamura, Masafumi; Uchiyama, Arisa; Kondo, Takashi; and Kageyama, Satoshi, 4,709,264, Cl. 358-93.000.

Kageyama, Shunji: *See—*
- Kojima, Tadao; Kageyama, Shunji; Okada, Minoru; Ohata, Isao; and Sato, Noboru, 4,690,932, Cl. 514-337.000.

Kageyama, Takao; and Orui, Ryuzo, to NEC Corporation. Microwave tube with improved output signal extracting structure. 4,682,076, 7-21-87, Cl. 315-4.000.

Kageyama, Takashi; and Yoshida, Makoto, to Konishiroku Photo Industry Co., Ltd. Coating method and apparatus. 4,675,208, 6-23-87, Cl. 427-128.000.

Kageyama, Terutaka: *See—*
- Hoshizaki, Hiroki; Suzuki, Hirofumi; Kageyama, Terutaka; and Oyobe, Kazuo, 4,652,727, Cl. 219-541.000.

Kageyama, Toshinobu: *See—*
- Oumi, Takeharu; Kageyama, Toshinobu; and Mushika, Sadahiko, 4,648,385, Cl. 128-1.00D.

Kageyama, Yoshitaka: *See—*
- Masuzawa, Tokihiko; Kageyama, Yoshitaka; and Tomita, Norizou, 4,642,736, Cl. 362-31.000.

Kageyama, Yoshiteru, to Mitsubishi Petrochemical Company Limited. Metal powder-containing compositions. 4,680,140, 7-14-87, Cl. 252-512.000.

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- Narumiya, Yoshikazu; Hashimoto, Yasuo; Yui, Hiroshi; and Kageyama, Yoshiteru, 4,690,778, Cl. 252-506.000.

Kageyama, Yoshiyuki: *See—*
- Ide, Yukio; Ohnuma, Teruyuki; and Kageyama, Yoshiyuki, 4,707,570, Cl. 178-18.000.
- Ohshima, Kohichi; Kageyama, Yoshiyuki; Ide, Yukio; Fujimura, Itaru; and Kunita, Masako, 4,687,723, Cl. 430-65.000.

Kagi, Bruno, to Strapex AG. Apparatus to strap a tape around an object. 4,711,071, 12-8-87, Cl. 53-589.000.

Kagi, Stephan: *See—*
- Schmid, Adalbert; Kiener, Alfons; Kagi, Stephan; and Claude, Jean P., 4,685,969, Cl. 106-35.000.

Kagimasa, Toyohiko: *See—*
- Gotou, Shizuo; Kagimasa, Toyohiko; Yoshizumi, Seiichi; and Shintani, Yooichi, 4,679,140, Cl. 364-200.000.

Kagimoto, Yoshitaka: *See—*
- Matsumoto, Kunio; Kagimoto, Yoshitaka; Hirata, Tsutomu; Watanabe, Susumu; Ohtsuka, Akira; and Takahashi, Kiyoharu, 4,675,290, Cl. 435-24.000.

Kagitani, Yoshio: *See—*
- Fukushima, Tsunekazu; Emoto, Hiroshi; Kagitani, Yoshio; Yokoyama, Kazumasa; Nishida, Masayuki; and Suyama, Tadakazu, 4,687,762, Cl. 514-34.000.
- Ueda, Yasuo; Kagitani, Yoshio; Komeda, Shirou; and Funakoshi, Satoshi, 4,701,325, Cl. 424-164.000.

- Kagiwada, Reynold S.: *See—*
  - Stokes, Robert B.; Yen, Kuo-Hsiung, Lau, Kei-Fung, Kagiwada, Reynold S.; and Delaney, Michael J., 4,707,631, Cl. 310-313.00A.
- Kagiya, Kei: *See—*
  - Saito, Teruo; Asai, Kuniaki; Suzuki, Yasuro; and Kagiya, Kei, 4,640,961, Cl. 525-444.000.
- Kagiyama, Takashi: *See—*
  - Utsumi, Shigeo; Kanesaki, Tateo; Kagiyama, Takashi; Otonari, Satoshi; Ikushima, Koichiro; and Okumura, Norio, 4,708,902, Cl. 428-141.000.
- Kagiyama, Tsutomu: *See—*
  - Takaishi, Tatsuyuki; Kobayashi, Fumio; Usui, Keizaburo; and Kagiyama, Tsutomu, 4,691,584, Cl. 74-471.00R.
- Kago, Yoshiyuki; and Sakakibara, Hiroyuki, to Nippon Soken, Inc. Vehicle speedometer. 4,689,624, 8-25-87, Cl. 342-117.000.
- Kago, Yoshiyuki: *See—*
  - Akita, Shigeyuki, and Kago, Yoshiyuki, 4,673,913, Cl. 340-52.00R.
  - Kitamura, Sotoo; Akita, Shigeyuki; and Kago, Yoshiyuki, 4,684,943, Cl. 340-825.720.
  - Yoshino, Yasuhisa; Kago, Yoshiyuki; Sakakibara, Hiroyuki; and Shinoda, Yoshio, 4,706,195, Cl. 364-426.000.
- Kagonata, Tsuneo; Chonan, Kenichi; Sugimuria, Atsushi; Tezuka, Akira; and Usui, Hideo, to Hitachi, Ltd. Temperature control method and apparatus for air conditioner. 4,649,709, 3-17-87, Cl. 62-89.000.
- agota, Nobuhiro, and Senoh, Hideaki, to Mitsubishi Paper Mills, Ltd. Alcohol-based flexographic ink for use in backcarbon papers. 4,640,714, 2-3-87, Cl. 106-21.000.
- agstrom, Per-Olof, and Abrahamsson, Lars, to Granges Aluminium Aktiebolag. Method and apparatus for cleaning watery ventilating air containing liquids which have been gasified during cooling or lubrication of converting machines, particularly rolling mills. 4,682,990, 7-28-87, Cl. 55-80.000.
- ahan, Frederick M.; and Kropp, Helmut, to Merck & Co., Inc. Use of substituted propenoates to prevent nephrotoxicity of certain antibiotics. 4,668,504, 5-26-87, Cl. 424-10.000.
- ahan, Osher, to Hughes Aircraft Company. Conductively cooled laser rod. 4,637,028, 1-13-87, Cl. 372-34.000.
- ahan, Osher, to Hughes Aircraft Company. Variable lens and birefringence compensator for continuous operation. 4,671,624, 6-9-87, Cl. 350-405.000.
- ahara, Toshiki: *See—*
  - Takeuchi, Seizi; Kamo, Tomoichi; Horiba, Tatsuo; Kitami, Kunko; Mori, Toshikatsu; Kahara, Toshiki; Imahashi, Jinichi; Honji, Akio; Takeuchi, Masato; and Tamura, Kohki, 4,643,957, Cl. 429-41.000.
- ahelin, Edward W. Variable speed single-wheeled ball propelling machine. 4,705,014, 11-10-87, Cl. 124-1.000.
- ahil, John E.; Milewits, Marvin; Bradfield, James E.; and Lam, Clive C., to PA Incorporated. Method and apparatus for detecting the location of defects in tubular sections moving past a well head. 4,626,727, 1-13-87, Cl. 324-227.000.
- ahil, John E.; Jaynes, Mark S.; and Harrell, Kirby R., to PA Incorporated. Apparatus for servicing tubular strings in subterranean wells. 4,715,442, 12-29-87, Cl. 166-250.000.
- ahil, John E.: *See—*
  - Bradfield, James E.; Kahil, John E.; Jaynes, Mark S.; Moake, Gordon L.; Milewits, Marvin; Bolton, Curtis W., III; Lam, Clive C.; and Stanley, Roderic K., 4,710,712, Cl. 324-227.000.
- ahkipuro, Matti, and Hakkinen, Pekka, to Elevator GmbH. Floor selector for lift. 4,635,320, 1-13-87, Cl. 187-29.00R.
- ahkipuro, Matti, to Elevator GmbH. Method and drive for elevator DC drive motor stabilization. 4,684,856, 8-4-87, Cl. 318-310.000.
- ahkipuro, Matti: *See—*
  - Makinen, Heimo; and Kahkipuro, Matti, 4,672,277, Cl. 318-380.000.
- ahkipuro, Matti J., to Elevator GmbH. Way of placing chokes with air core. 4,663,700, 5-5-87, Cl. 363-54.000.
- ahl, William; and Settanni, Richard, to Target Concepts Inc. Lighting control system with infrared occupancy detector. 4,703,171, 10-27-87, Cl. 250-221.000.
- ahle, Alexander: *See—*
  - den Broeder, Friedrich J. A.; Draaisma, Henricus J. G., and Kahle, Alexander, 4,678,721, Cl. 428-607.000.
- ahle, Brewster L.: *See—*
  - Hillis, W. Daniel; Knight, Thomas F., Jr.; Bawden, Alan; Kahle, Brewster L.; Chapman, David; Christman, David P.; Lasser, Cliff A.; and Feynman, Carl R., 4,709,327, Cl. 364-200.000.
- ahle, Dieter; Humpert, Jurgen; and Pawelzik, Manfred, to Friedrich Grohe Armaturenfabrik GmbH & Co. Single-control mixing valve. 4,687,025, 8-18-87, Cl. 137-625.170.
- ahle, Hans J.: *See—*
  - Garbade, Rolf; Kahle, Hans J.; Schreier, Hans H.; and Jabbusch, Wolfgang, 4,645,018, Cl. 177-6.000.
- ahlert, Wolfgang; Klein, Joachim; Steinert, Hans-Jurgen; and Vorlop, Claus, to Intermedicat GmbH. Apparatus for the production of biocatalyst beads. 4,639,423, 1-27-87, Cl. 435-287.000.
- ahlman, Josephus A. H. M.; and Hoogendijk, Adrianus H., to U.S. Philips Corporation. Apparatus for time base correction. 4,642,702, 2-10-87, Cl. 358-322.000.
- ahlman, Josephus A. H. M.: *See—*
  - Schouhamer Immink, Kornelis A.; Aarts, Ronaldus M.; and Kahlman, Josephus A. H. M., 4,660,097, Cl. 358-310.000.
- ahlow, Kurt J., deceased: *See—*
  - LaCount, Dale F.; Holbrook, Richard L.; Mayer, Dean L., and Kahiow, Kurt J., deceased, 4,649,728, Cl. 72-85.000.
- Kahlow, Ronald A., executor: *See—*
  - LaCount, Dale F.; Holbrook, Richard L.; Mayer, Dean L.; and Kahlow, Kurt J., deceased, 4,649,728, Cl. 72-85.000.
- Kahn, Beatrice. Ornamental bib. 4,660,225, 4-28-87, Cl. 2-49.00R.
- Kahn, Daniel, to American Telephone and Telegraph Company AT&T Bell Laboratories. Speech analysis syllabic segmenter. 4,665,548, 5-12-87, Cl. 381-43.000.
- Kahn, Gerhard: *See—*
  - Hilgendorff, Walter; Wenzlaff, Axel; Boddeker, Karl; Kahn, Gerhard; and Luhrs, Gunter, 4,650,574, Cl. 210-180.000.
  - Hilgendorff, Walter; Kahn, Gerhard; and Kaschemekat, Jurgen, 4,695,380, Cl. 210-347.000.
- Kahn, Jan E., to Newell Co. Circular knitting needle assembly. 4,693,094, 9-15-87, Cl. 66-117.000.
- Kahn, Leonard R. Automatic multi-system AM stereo receiver using existing single-system AM stereo decoder IC. 4,641,341, 2-3-87, Cl. 381-15.000.
- Kahn, Leonard R. AM stereo receivers having platform motion protection. 4,653,095, 3-24-87, Cl. 381-15.000.
- Kahn, Leonard R. Compatible AM broadcast/data transmisison system. 4,688,255, 8-18-87, Cl. 381-16.000.
- Kahn, Manfred: *See—*
  - Rice, Roy W.; Kahn, Manfred, and Shadwell, Damian E., 4,683,161, Cl. 428-178.000.
- Kahn, Theodore E.: *See—*
  - Mohlenbrock, William C.; Farley, Peter J.; Trummell, Donald E., Jr.; and Kahn, Theodore E., 4,667,292, Cl. 364-406.000.
- Kaho Musen Limited: *See—*
  - Yanase, Tsunao, 4,702,718, Cl. 446-175.000.
- Kahr, Gerhard: *See—*
  - Benecke, Theodor; Lux, Benno; Schubert, Wolf-Dieter; Ta, An Tuan; and Kahr, Gerhard, 4,642,135, Cl. 420-33.000.
- Kahrau, Jurgen, to Hauni-Werke Korber & Co. KG. Apparatus for detecting foreign objects in the distributor of a cigarette maker. 4,651,758, 3-24-87, Cl. 131-109.200.
- Kahrs, Manfred, to Alfred Teves GmbH. Variable capacity vane motor having rotatable and stationary cam rings. 4,659,297, 4-21-87, Cl. 418-22.000.
- Kai, Akio: *See—*
  - Akimoto, Takashi; Kai, Akio; Kobayashi, Masao; and Itoh, Haruo, 4,658,101, Cl. 200-16.00R.
- Kai Cutlery Center Co., Ltd.: *See—*
  - Saito, Tatsuya, 4,712,301, Cl. 30-47.000.
  - Sugiyama, Makoto; Sugimura, Hiroshi; Machida, Naoyoshi; and Murai, Yoshiichi, 4,715,121, Cl. 30-253.000.
- Kai, Fumio: *See—*
  - Inouye, Shigeharu; Koyama, Masao; Miyauchi, Keinosuke; Tsuruoka, Takashi; Kai, Fumio; Matsumoto, Kuniomi; Niida, Taro; and Akita, Eiichi, 4,647,572, Cl. 514-381.000.
- Kai, Hidenobu: *See—*
  - Inokuchi, Kiyoshi; Sugimachi, Keizo; Shirakami, Toshiharu; Kai, Hidenobu; Kawai, Yoshio; and Hotta, Tetsuya, 4,676,258, Cl. 128-804.000.
  - Sogawa, Akira; Inokuchi, Kiyoshi; Sugimachi, Keizo; Kai, Hidenobu; Hotta, Tetsuya; and Kawai, Yoshio, 4,662,383, Cl. 128-784.000.
- Kai, Hisao; Ochiai, Kensuke; and Niisato, Takeshi, to Asahi Kasei Kogyo Kabushiki Kaisha. Cutter for dispensing container and dispensing container provided with said cutter. 4,679,718, 7-14-87, Cl. 225-48.000.
- Kai, Isao, to Omron Tateisi Electronics Co. Contact lens sterilization device. 4,677,280, 6-30-87, Cl. 219-385.000.
- Kai, Isao, to Omron Tateisi Electronics Co. Contact lens sterilization device. 4,697,070, 9-29-87, Cl. 219-521.000.
- Kai, Masami; Kurando, Shigeo; Katafuchi, Toshinobu; Amakawa, Katsumi; and Kajitani, Tetsuji, to Mita Industrial Co., Ltd. Photoconductive drum device for electrostatic copying machines or the like. 4,659,206, 4-21-87, Cl. 355-3.0DR.
- Kai, Masanobu: *See—*
  - Suzuki, Toshiyuki; Tsukada, Akira; and Kai, Masanobu, 4,675,179, Cl. 424-67.000.
- Kai, Masanori; Hisabayashi, Satoshi; Homma, Seiichi; and Igarashi, Yousuke, to Iwatsu Electric Co., Ltd. Method of controlling platemaking positions and errors. 4,653,008, 3-24-87, Cl. 364-471.000.
- Kai, Osamu; Ovamada, Takashi; and Iwabuchi, Shin, to Tamura Electric Works, Ltd. Coin discrimination apparatus. 4,660,705, 4-28-87, Cl. 194-318.000.
- Kai, Osamu: *See—*
  - Takeda, Yoshiaki; Kinoshita, Toshiharu; and Kai, Osamu, 4,644,109, Cl. 379-27.000.
- Kai, Shisei: *See—*
  - Nakagawa, Toyoaki; and Kai, Shisei, 4,707,241, Cl. 204-406.000.
- Kai, Tadashi: *See—*
  - Kimura, Muneaki, and Kai, Tadashi, 4,661,237, Cl. 208-423.000.
- Kai, Takayuki, to Daiwa Can Company, Limited. Blank guide device of resistance welding machine for seam welding of can body. 4,649,251, 3-10-87, Cl. 219-64.000.
- Kai, Tomokazu, to NEC Corporation. Mobile telephone system for automatically paging absent mobile subscriber. 4,661,972, 4-28-87, Cl. 379-57.000.
- Kai, Toru; and Kato, Kouichi, to Toyoda Gosei Co., Ltd. Resin molding apparatus. 4,678,421, 7-7-87, Cl. 425-159.000.
- Kai, Yasuaki; Sagawa, Takatoshi; and Tabata, Hiroshi, to Nissan Motor Co., Ltd. Directional light-shield board. 4,709,988, 12-1-87, Cl. 350-276.00R.

Kai, Yoshiaki: *See*—

Suzuki, Takashi; Odagiri, Masaru; Kai, Yoshiaki; Kitamaki, Hisayo; and Tomago, Akio, 4,647,507, Cl. 428-421.000.

Kaibel, Gerd: *See*—

Bott, Kaspar; Kaibel, Gerd; Hoffmann, Herwig; Irnich, Rudolf; and Kratzer, Otto, 4,659,866, Cl. 564-137.000.

Kaide, Tadayoshi: *See*—

Matsuura, Masahiko; Kaneko, Tadashi; Kaide, Tadayoshi; and Hotate, Makoto, 4,633,841, Cl. 123-492.000.

Kaieda, Osamu; Awashima, Masaru; Okitaka, Isao; and Nakamura, Toshiaki, to Nippon Shokubai Kagaku Kogyo Co., Ltd. Method for manufacture or organic fluorine compounds. 4,684,734, 8-4-87, Cl. 546-345.000.

Kaieda, Osamu; Hirota, Koichi; Itoh, Hideki; Awashima, Masaru; and Nakamura, Toshiaki, to Nippon Shokubai Kagaku Kogyo Co., Ltd. Method for production of fluorinated quinones. 4,689,179, 8-25-87, Cl. 260-384.000.

Kaieda, Osamu: *See*—

Kitao, Teijiro; Matsuoka, Masaru; and Kaieda, Osamu, 4,647,411, Cl. 260-381.000.

Kaieda, Shozo: *See*—

Fukae, Kensuke; Kaieda, Shozo; and Matsunaga, Yoshiaki, 4,664,507, Cl. 355-3.0SH.

Kaifu, Rokuro: *See*—

Hinohara, Yoshikazu; Kaifu, Rokuro; and Matsunaga, Isao, 4,696,919, Cl. 514-62.000.

Kaihara, Toshikazu: *See*—

Ohta, Norio; Yanagishima, Fumiya; Kaihara, Toshikazu; Kishida, Akira; Sato, Kuniaki; and Ochiai, Masanobu, 4,713,154, Cl. 204-145.00R.

Kaiho, Shigeo: *See*—

Otsuka, Nobuyuki; Kasuya, Atsuo; Nakayama, Yusho; Kumashiro, Masayuki; Furuya, Tamio; and Kaiho, Shigeo, 4,689,979, Cl. 72-57.000.

Kaijiri, Kouhei: *See*—

Yamamoto, Shinji; Kaijiri, Kouhei; Nagakura, Kouichi; Oda, Denichi; Matsumori, Yasuo; and Nakayama, Kimio, 4,703,086, Cl. 525-133.000.

Kaijo Denki Co., Ltd.: *See*—

Morita, Yukiji; and Yoshida, Masafumi, 4,685,075, Cl. 364-569.000.

Kail, James E.: *See*—

Shay, Gregory D.; Devona, James E.; and Kail, James E., 4,703,080, Cl. 524-555.000.

Kailath, Thomas: *See*—

Citron, Todd K.; and Kailath, Thomas, 4,665,523, Cl. 371-37.000.

Shan, Tiejun J.; and Kailath, Thomas, 4,641,259, Cl. 364-724.000.

Kaim, John W., to AMSTED Industries Incorporated. Railway coupler carrier retention system. 4,674,639, 6-23-87, Cl. 213-61.000.

Kaim, John W.: *See*—

Altherr, Russell G.; and Kaim, John W., 4,700,853, Cl. 213-50.000.

Kaimai, Takashi; and Kusayanagi, Sampo, to Nippon Mining Co., Ltd. Lubricating oil for use in Flon atmosphere. 4,707,280, 11-17-87, Cl. 252-49.600.

Kain, Richard S.: *See*—

Winter, Russell K.; Harvey, Thomas D.; Savas, Nedim; and Kain, Richard S., 4,650,261, Cl. 312-140.000.

Kain, Richard Y.: *See*—

Boebert, William E.; and Kain, Richard Y., 4,701,840, Cl. 364-200.000.

Boebert, William E.; and Kain, Richard Y., 4,713,753, Cl. 364-200.000.

Kain, William S.: *See*—

Staker, Donald D.; and Kain, William S., 4,715,866, Cl. 44-51.000.

Kainaga, Masahiro: *See*—

Sakoda, Kousuke; Kainaga, Masahiro; Akita, Hidehiko; Murata, Fumiya; and Nakaosa, Yoshitake, 4,692,896, Cl. 364-900.000.

Kaindl, Michael: *See*—

Falkenstein, Rudolf; Haberland, Detlef; Kaindl, Michael; Haltenorth, Helmut; Prussas, Herbert; and Taumberger, Franz, 4,707,066, Cl. 350-96.200.

Kaine, Eugene; Woten, Homer G.; and Willston, Everett S., to Unisul, Inc. Method and apparatus for measuring material. 4,662,221, 5-5-87, Cl. 73-599.000.

Kaineder, Herbert: *See*—

Luschnig, Franz; Wuerthner, Hubert; Kaineder, Herbert; and Leichtfried, Fritz, 4,699,398, Cl. 280-633.000.

Kainer, Ernst. Preburning plant for burning solid fuel materials having a high ash contents. 4,672,899, 6-16-87, Cl. 110-234.000.

Kainer, Hartmut: *See*—

Buhler, Hans-Eugen; Stein, Hermann; Levkov, Blagoje; Kainer, Hartmut; Kalfa, Horst; and Grimm, Daniel, 4,656,148, Cl. 502-34.000.

Sommerer, Jurgen; Leipold, Michael; Kainer, Hartmut; and Stein, Hermann, 4,677,731, Cl. 29-526.00R.

Wagener, Dietrich; Laue, Karl H.; Wunderlich, Egmar; Sander, Theo; Flockenhaus, Claus; Hackler, Erich; Levkov, Blagoje; Grimm, Daniel; Kainer, Hartmut; and Stein, Hermann, 4,672,052, Cl. 502-439.000.

Wagener, Dietrich; Laue, Karl H.; Wunderlich, Egmar; Sander, Theo; Flockenhaus, Claus; Hackler, Erich; Levkov, Biagoje; Grimm, Daniel; Kainer, Hartmut; Stein, Hermann; Buhler, Hans-Eugen; Kalfa, Horst; Jansen, Johann; Stender, Werner; and Max, Arnold, 4,695,559, Cl. 502-183.000.

Kaino, Masami S.; and Young, Rocky M-Y., to NCR Corporation. Processor overrun circuit. 4,700,344, 10-13-87, Cl. 370-94.000.

Kainuma, Hiroshi: *See*—

Ito, Motoya; Takahashi, Noriyoshi; Watanabe, Masatoshi; Abukawa, Toshimi; Seya, Takeshi; Kainuma, Hiroshi; and Syutoo, Toshiyuki, 4,704,789, Cl. 29-609.000.

Kainuma, Keiji: *See*—

Kobayashi, Shoichi; and Kainuma, Keiji, 4,668,626, Cl. 435-95.000.

Kainuma, Teisuke: *See*—

Sugimoto, Naotsugu; Torii, Kazutoshi; Tanahashi, Yuka; Morita, Hideo; Watanabe, Yuzo; Yamamoto, Kohei; and Kainuma, Teisuke, 4,656,044, Cl. 426-592.000.

Kaire, Jean C., to Thomson-CSF. Regulated power supply circuit particularly for telephone set. 4,639,551, 1-27-87, Cl. 323-231.000.

Kairis, Alexandre; and Colsen, Ronnie H., to Waco Trading Corporation. Electro-therapeutic device. 4,694,840, 9-22-87, Cl. 128-735.000.

Kaisei Kogyo Corporation: *See*—

Fuminao, Tanitomi, 4,690,184, Cl. 144-2.00Z.

Fuminao, Tanitomi, 4,711,278, Cl. 144-2.00Z.

Yasunaga, Suezaki, 4,633,925, Cl. 144-343.000.

Kaiser Aerospace & Electronics Corporation: *See*—

Elliott, Gregory K., 4,690,296, Cl. 220-259.000.

Perez, Frederick W., 4,693,447, Cl. 251-129.120.

Kaiser, Albrecht; and Schaublin, Hans-Jurg, to Herbert Kannegiesser GmbH & Co. Apparatus for bonding sheet-like textile pieces. 4,645,559, 2-24-87, Cl. 156-583.100.

Kaiser Aluminum & Chemical Corporation: *See*—

Finnegan, Walter D., 4,699,674, Cl. 148-127.000.

Malito, John T.; and Roberson, Morris L., 4,663,133, Cl. 423-130.000.

Mohondro, William R., 4,635,842, Cl. 228-175.000.

Pearson, Michael J., 4,639,259, Cl. 55-71.000.

Taylor, Dennis R.; and Gallavan, Kevin P., 4,701,438, Cl. 502-405.000.

Thomas, David C.; Alcorn, John W.; and Nearn, William T. II, 4,650,369, Cl. 405-126.000.

Westerman, Edwin J., 4,699,672, Cl. 148-12.70A.

Kaiser, Bernhard; and Wokoeck, Ortwin, to Kienzle Apparate GmbH. Device for testing properties of coins. 4,715,223, 12-29-87, Cl. 73-163.000.

Kaiser, Bruce J.; Walker, Edward S.; Tunnell, George W.; and Masatis, William, to General Electric Company. Monitor for airborne radioactive particles. 4,701,621, 10-20-87, Cl. 250-435.000.

Kaiser, Carl; Kruse, Lawrence I.; and Ross, Stephen T., to SmithKline Beckman Corporation. Pyridylalkyl imidazole-2-thiols. 4,634,711, 1-6-87, Cl. 514-341.000.

Kaiser, Carl; and Kruse, Lawrence I., to Smithkline Beckman Corporation. Substituted te[1]trahydroisoquinoline derivatives having β-adrenergic receptor activity. 4,707,485, 11-17-87, Cl. 514-307.000.

Kaiser, Carl; and Kruse, Lawrence I., to Smithkline Beckman Corporation. Dopamine-β-hydroxylase inhibitors and use thereof. 4,707,488, 11-17-87, Cl. 514-381.000.

Kaiser, David, to Chrysler Motors Corporation. Retaining clip. 4,642,859, 2-17-87, Cl. 24-669.000.

Kaiser, Donald P.: *See*—

Miller, Louis D.; and Kaiser, Donald B., 4,692,658, Cl. 313-365.000.

Kaiser, Emil T.; and Moe, Gregory R., to University Patents, Inc. Novel peptide hormones with calcitonin-like activity. 4,663,309, 5-5-87, Cl. 514-11.000.

Kaiser, Emil T.; and Velicelebi, Gonul, to Salk Institute for Biological Studies, The. GRF analogs. 4,689,318, 8-25-87, Cl. 514-12.000.

Kaiser, Erich: *See*—

Rille, Eduard; Kaiser, Erich; and Grunenfelder, Pius, 4,668,373, Cl. 204-298.000.

Kaiser, Frederick A.: *See*—

Andrews, Rodney R.; Ferguson, John H.; Kaiser, Frederick A.; and Coman, William E., 4,701,068, Cl. 403-359.000.

Kaiser, Gunther; and Krauter, Immanuel, to Robert Bosch GmbH. Method of stabilizing current flow through an automotive-type ignition coil. 4,709,684, 12-1-87, Cl. 123-644.000.

Kaiser, Hans: *See*—

Ganter, Wolfgang; Flaig, Oskar; Oertel, Heinrich; Kaiser, Hans; Kussmaul, Ewald; and Brede, Hermann, 4,666,313, Cl. 368-205.000.

Kaiser, Hans P.: *See*—

Geisser, Peter; Kaiser, Hans P.; and Berger, Franz, 4,715,851, Cl. 604-82.000.

Kaiser, Hasso, to DEGUSSA Aktiengesellschaft. Process for introducing bath components into electrolytic and currentless baths. 4,710,224, 12-1-87, Cl. 106-1.230.

Kaiser, Jeffrey: *See*—

Sheng, Shinan-Chur S.; Kaiser, Jeffrey; Jacobs, Ralph R.; and Petersen, Alan B., 4,706,256, Cl. 372-61.000.

Kaiser, Joachim: *See*—

Konz, Elmar; and Kaiser, Joachim, 4,673,682, Cl. 514-307.000.

Kaiser, June. Protective sanitary barrier for CPR doll. 4,711,237, 12-8-87, Cl. 128-136.000.

Kaiser, Klaus: *See*—

Born, Gerhard; and Kaiser, Klaus, 4,708,234, Cl. 198-453.000.

Kaiser, Klaus-Peter: *See*—

Dietz, Gunter; Nowak, Manfred; and Kaiser, Klaus-Peter, 4,664,435, Cl. 296-97.00H.

Viertel, Lothar; and Kaiser, Klaus-Peter, 4,683,522, Cl. 362-135.000.

Kaiser, Manfred, to Standard Elektrik Lorenz Aktiengesellschaft. Optical multiplexer/demultiplexer. 4,701,012, 10-20-87, Cl. 350-96.190.

- Kaiser Optical Systems, Inc.: *See—*
  - Fairchild, Ronald C., 4,688,879, Cl. 350-3.700.
- Kaiser, Robert. Method and apparatus for removal of small particles from a surface. 4,711,256, 12-8-87, Cl. 134-25.400.
- Kaiser, Robert H.: *See—*
  - Lee, Young E.; Downing, James H.; and Kaiser, Robert H., 4,684,403, Cl. 75-80.000.
  - Todd, Lamar S.; Kaiser, Robert H.; and Hilburger, Donald R., 4,676,970, Cl. 423-561.00R.
- aiser, Robert T.; Curran, Neal J.; and Wakefield, Theodore D., II, to Invacare Corporation. Continuous passive motion exercise apparatus. 4,671,257, 6-9-87, Cl. 128-25.00R.
- aiser, Roman, to Givaudan Corporation. 2-(1′-hydroxyimino-ethyl)-1,3,3,4,4-pentamethylcyclopentene and fragrance compositions containing same. 4,678,604, 7-7-87, Cl. 252-522.00R.
- aiser, Sidney V.: *See—*
  - Dahlin, Erik B.; Kaiser, Sidney V.; Young, Alan M.; and Levien, Andrew K., 4,660,421, Cl. 73-861.380.
- aiser, Siegmund H., to PROMA Produkt-und Marketing Gesellschaft mbH. Piston-cylinder structure. 4,664,020, 5-12-87, Cl. 92-88.000.
- aiser, Siegmund H.: *See—*
  - Lipinski, Reinhard; and Kaiser, Siegmund H., 4,664,019, Cl. 92-88.000.
  - Lipinski, Reinhard; and Kaiser, Siegmund H., 4,715,241, Cl. 74-89.150.
- aiser Steel Corporation: *See—*
  - Williamson, Calvin C., 4,706,488, Cl. 72-370.000.
- aiser, Steven W., to Union Carbide Corporation. Production of light olefins. 4,677,242, 6-30-87, Cl. 585-638.000.
- aiser, Steven W., to Union Carbide Corporation. Production of light olefins from aliphatic hetero compounds. 4,677,243, 6-30-87, Cl. 585-638.000.
- aiser, Theodor, to INA Walzlager Schaeffler KG. Radial rolling bearings. 4,707,151, 11-17-87, Cl. 384-495.000.
- aiser, Timothy D.; and Ackel, Gary P., to Hazelett Strip-Casting Corporation. Pool-level sensing probe and automatic level control for twin-belt continuous metal casting machines. 4,712,602, 12-15-87, Cl. 164-453.000.
- aiser, Timothy D.: *See—*
  - Wood, John F. B.; Kaiser, Timothy D.; Allyn, Jerome B.; Dykes, Charles D.; Kalaskie, Frank E.; Carmichael, Robert J.; and Simon, Charles R., 4,694,899, Cl. 164-452.000.
- aiser, Tony: *See—*
  - Beer, Hans-Rudolf; Britsch, Helmut; Hirth, Michael; Kaiser, Tony; and Kogelschatz, Ulrich, 4,650,648, Cl. 422-186.070.
- aiser, Walter L. Clothing protector. 4,653,119, 3-31-87, Cl. 2-60.000.
- aiser, Willard D.; Koenig, Mark J.; and LeBlanc, William K., to Shafer Valve Company, The. Torque and friction tester. 4,633,702, 1-6-87, Cl. 73-9.000.
- aiser, Wolfgang: *See—*
  - Held-Elbert, Gabriele; Kaiser, Wolfgang; and Schmutzler, Werner, 4,691,337, Cl. 379-24.000.
- aita, Hirosi; Kojima, Tsuyoshi; and Kawai, Motoji, to Hitachi, Ltd. Rivet supplying apparatus. 4,643,344, 2-17-87, Cl. 227-112.000.
- aito, Haruyuki: *See—*
  - Seki, Gen; Hayashi, Seiichi; Kaito, Haruyuki; and Tatsumi, Akira, 4,658,315, Cl. 360-104.000.
- aito, Mitsumasa: *See—*
  - Kitagawa, Sadao; Yokoi, Takashi; and Kaito, Mitsumasa, 4,677,213, Cl. 549-377.000.
- aito, Takashi: *See—*
  - Kyogoku, Hideaki; and Kaito, Takashi, 4,704,526, Cl. 250-307.000.
- aivanto, Pekka J. Attachment device. 4,686,748, 8-18-87, Cl. 24-522.000.
- iwa, Ryoichi; Suganuma, Yuichiro; and Yasuho, Takeo, to Matsushita Electric Industrial Co., Ltd. Keyboard assembly with lighting. 4,670,633, 6-2-87, Cl. 200-314.000.
- iya, Atsushi: *See—*
  - Hayakawa, Masaru; Yoshida, Takeshi; and Kaiya, Atsushi, 4,691,759, Cl. 164-526.000.
- iya, Haruhiko: *See—*
  - Ogiu, Hisao; and Kaiya, Haruhiko, 4,706,554, Cl. 128-4.000.
  - Takamura, Koji; and Kaiya, Haruhiko, 4,677,471, Cl. 358-98.000.
- iya, Mitsuhiro; Denda, Masaki; Shimada, Masashi; Ohnuki, Hideki; and Ogura, Mineo. Heat-sensitive recording apparatus. 4,660,052, 4-21-87, Cl. 346-76.0PH.
- iyo Kogyo Kabushiki Kaisha: *See—*
  - Makino, Hisao; and Makino, Masahiko, 4,702,830, Cl. 210-220.000.
- izaki, Kazuhiro; Kubota, Sadao; Harada, Hiroshi; and Matsuura, Shigeo, to Hitachi, Ltd. Noise reduction circuit. 4,636,863, 1-13-87, Cl. 358-167.000.
- izer, Adrianus J. M.; Sangster, Frederik L. J.; and Wesche, Cornelis A. M., to U.S. Philips Corporation. Electro-acoustic converter with compensated frequency response characteristic. 4,649,565, 3-10-87, Cl. 381-90.000.
- izer, Adrianus J. M.; and Van Leeuwen, Gerrit H., to U.S. Philips Corporation. Arrangement for converting an electric signal into an acoustic signal or vice versa and a non-linear network for use in the arrangement. 4,709,391, 11-24-87, Cl. 381-98.000.
- izuka, Masao: *See—*
  - Shimizu, Hiroshi; and Kaizuka, Masao, 4,706,217, Cl. 365-154.000.
- izuka, Toshio: *See—*
  - Yokoyama, Tadashi; Kaizuka, Toshio; Naito, Junichi; Numazawa, Kenichi; Ohashi, Minoru; and Kikuchi, Tomoo, 4,665,736, Cl. 73-19.000.
- Kaj, Goran L.: *See—*
  - Axen, Rolf E.; Kaj, Goran L.; and Bjorkman, Rune, 4,708,932, Cl. 435-7.000.
- Kaja, Dean M.: *See—*
  - Sawant, Ulhas S.; Karra, Vijia K.; and Kaja, Dean M., 4,697,745, Cl. 241-30.000.
- Kajati, Istvan: *See—*
  - Gorog nee Privitzer, Katalin; Bodnar, Laszlo; Dudar, Erzsebet; Kocsis nee Bagi, Maria; Gaal, Sandor; Tasnadi, Marta; Egyhazi nee Csizmadia, Eva; Varga, Valeria M.; Kajati, Istvan; Kis, Gyorgy; Molnar, Janos; Toth, Bertalan; Cserhati nee Botka, Ilona; Kaptas, Tibor; and Csete, Sandor, 4,661,477, Cl. 514-76.000.
  - Gorog nee Privitzer, Katalin; Bodnar, Laszlo; Dudar, Erzsebet; Kocsis nee Bagi, Maria; Gaal, Sandor; Tasnadi, Marta; Egyhazi nee Csizmadia, Eva; Varga, Valeria M.; Kajati, Istvan; Kis, Gyorgy; Molnar, Janos; Toth, Bertalan; Cserhati nee Botka, Ilona; Kaptas, Tibor; and Csete, Sandor, 4,675,431, Cl. 558-218.000.
- Kaji, Akira. Method for inhibiting propagation of virus and anti-viral agent. 4,689,320, 8-25-87, Cl. 514-44.000.
- Kaji, Hisatsugu: *See—*
  - Fukuda, Hiroyuki; Shigeta, Masatomo; Kaji, Hisatsugu; and Saitoh, Kuniyuki, 4,686,072, Cl. 264-29.500.
  - Shigeta, Masatomo; Fukuda, Hiroyuki; Kaji, Hisatsugu; and Saitoh, Kuniyuki, 4,664,988, Cl. 429-44.000.
- Kaji, Isao: *See—*
  - Takaoka, Michio; Motai, Tsuneaki; Ono, Motoyuki; Kaji, Isao; Hasegawa, Masakazu; Tan, Masayuki; and Kurata, Masaru, 4,701,117, Cl. 425-116.000.
- Kaji, Masayuki: *See—*
  - Nakabayashi, Masamitsu; Kawai, Hideo; Tatsukawa, Suminori; and Kaji, Masayuki, 4,686,133, Cl. 428-209.000.
- Kaji, Shinichi: *See—*
  - Hikino, Keiji; Kaji, Shinichi; and Nakamura, Shin, 4,649,654, Cl. 34-30.000.
  - Nakamura, Shin; Hikino, Keiji; Kaji, Shinichi; and Komatsu, Tsunetoshi, 4,638,573, Cl. 34-82.000.
- Kaji, Shoichi, to Kitz Corporation. Spring-return type actuator. 4,702,150, 10-27-87, Cl. 92-128.000.
- Kaji, Toshio, to Canon Kabushiki Kaisha. Color image sensing apparatus with one non-feedback clamp circuit and at least one feedback clamp circuit. 4,682,211, 7-21-87, Cl. 358-41.000.
- Kaji, Toshio: *See—*
  - Kato, Tokuzo; Takayama, Tsutomu; and Kaji, Toshio, 4,638,350, Cl. 358-29.000.
  - Takayama, Tsutomu; Hashimoto, Seiji; Kaji, Toshio; Suzuki, Masao; and Tojo, Akihiko, 4,682,232, Cl. 358-172.000.
- Kajigaya, Kazuhiko, to Hitachi, Ltd. Semiconductor memory device having an improved wiring and decoder arrangement to decrease wiring delay. 4,709,351, 11-24-87, Cl. 365-51.000.
- Kajigaya, Kazuhiko: *See—*
  - Matsumoto, Tetsuro; and Kajigaya, Kazuhiko, 4,635,233, Cl. 365-230.000.
- Kajihara, Isamu, to Morinaga & Co., Ltd. Apparatus for separating granular solids from carrying gas. 4,713,096, 12-15-87, Cl. 55-204.000.
- Kajihara, Takehiro; Atsumi, Senji; and Izumiya, Hirotsugu, to NGK Insulators, Ltd. Ceramic envelope device for high-pressure discharge lamp. 4,665,344, 5-12-87, Cl. 313-624.000.
- Kajihara, Takehiro; Atsumi, Senji; and Izumiya, Hirotsugu, to NGK Insulators, Ltd. Discharge tube for a high pressure metal vapor discharge lamp and a method of manufacturing the same. 4,687,969, 8-18-87, Cl. 313-625.000.
- Kajiho, Tokuaki: *See—*
  - Uemura, Toshinobu; Shinooka, Kiyohide; and Kajiho, Tokuaki, 4,695,467, Cl. 424-502.000.
- Kaju, Shigeru; Honma, Hiroshi; and Narumiya, Junichi, to Hochiki Corporation. Smoke detector with changeable pulse light emitting interval for monitoring purposes. 4,651,013, 3-17-87, Cl. 250-573.000.
- Kajikawa, Norio: *See—*
  - Ohishi, Yoshitaka; Nagahara, Michiko; Kajikawa, Norio; Yajima, Motoyuki; Nogimori, Katsumi; and Kurokawa, Shigeki, 4,666,931, Cl. 514-389.000.
- Kajikawa, Osamu; and Toyama, Akio, to Mutoh Industry Ltd. Paper feeding device for automatic drafting machine. 4,654,675, 3-31-87, Cl. 346-134.000.
- Kajikawa, Osamu; and Matsumoto, Shuso. Pen changer with orthogonal pick up from the turret. 4,660,054, 4-21-87, Cl. 346-139.00R.
- Kajikawa, Tsuneo, to Honda Giken Kogyo Kabushiki Kaisha. Handle locking mechanism for vehicles. 4,653,296, 3-31-87, Cl. 70-185.000.
- Kajikawa, Yoshiaki: *See—*
  - Tanaka, Atsuo; Kajikawa, Yoshiaki; Maeda, Yorishige; Machida, Shiro; and Dohnomoto, Tadashi, 4,669,367, Cl. 92-227.000.
- Kajikawa, Yosiharu: *See—*
  - Ohta, Hiromi; Ogawa, Shinji; Kajikawa, Yosiharu; Fukumura, Keiichi; Tsuchiya, Kiyomitsu; Kittaka, Kiyoshi; and Narita, Katsushi, 4,707,999, Cl. 62-474.000.
- Kajiki, Minoru: *See—*
  - Ikemura, Akio; and Kajiki, Minoru, 4,643,246, Cl. 165-54.000.
  - Ikemura, Akio; and Kajiki, Minoru, 4,646,813, Cl. 165-54.000.
  - Ikemura, Akio; and Kajiki, Minoru, 4,664,024, Cl. 98-88.100.
- Kajima Corporation: *See—*
  - Ikeda, Taro; Yahiro, Teruo; Yoshida, Hiroshi; Nishi, Kenji; Isobe, Takahisa; Kume, Yoichi; and Hamano, Hidenobu, 4,688,648, Cl. 175-242.000.

  - Mio, Kohei; Yamagishi, Yukio; Ishikawa, Hiroshi; Fukukawa, Mitsuo; and Takahashi, Shigeyuki, 4,699,543, Cl. 404-109.000.
  - Suzuki, Masami; Yamaguchi, Kouki; Katayama, Hisato; Muta, Tadayoshi; Okubo, Masakuni; Mochizuki, Akira; and Adachi, Hiroshi, 4,699,640, Cl. 55-385.00A.
- Kajima Kensetsu Kabushiki Kaisha: *See—*
  - Akihama, Shigeyuki; Saito, Makoto; Kawamoto, Akio; Banno, Tadashi; Umeki, Yoshihiko; and Nakamura, Takumi, 4,700,518, Cl. 52-309.160.
- Kajima Road Company: *See—*
  - Mio, Kohei; Yamagishi, Yukio; Ishikawa, Hiroshi; Fukukawa, Mitsuo; and Takahashi, Shigeyuki, 4,699,543, Cl. 404-109.000.
- Kajima, Takashi: *See—*
  - Nagata, Osamu; Kajima, Takashi; and Ozaki, Toshiharu, 4,688,138, Cl. 361-154.000.
  - Nagata, Osamu; Kajima, Takashi; and Ozaki, Toshihara, 4,688,139, Cl. 361-154.000.
- Kajima, Yutaka; and Suzaki, Eiji, to Tachikawa Spring Co., Ltd. Apparatus for mounting tension springs automatically. 4,653,185, 3-31-87, Cl. 29-809.000.
- Kajimoto, Masashi: *See—*
  - Terao, Kazuo; Kubo, Tsutomu; Hyakutake, Nobuo; Tachibana, Hidekiyo; Hama, Jun-ichi; Teshigawara, Touru; and Kajimoto, Masashi, 4,707,428, Cl. 430-102.000.
- Kajimoto, Nobuyuki; Tamaki, Akihiro; and Nagata, Teruyuki, to Mitsui Toatsu Chemicals, Incorporated. Sulfur-containing polyurethane base lens resin. 4,680,369, 7-14-87, Cl. 528-76.000.
- Kajimoto, Nobuyuki; Tamaki, Akihiro; and Nagata, Teruyuki, to Mitsui Toatsu Chemicals, Incorporated. S-alkyl thiocarbamate base lens resin. 4,689,387, 8-25-87, Cl. 528-76.000.
- Kajimoto, Nobuyuki: *See—*
  - Nagata, Teruyuki; Kajimoto, Nobuyuki; Wada, Masaru; Nakayama, Hitoshi; and Yamada, Tadao, 4,668,793, Cl. 548-317.000.
- Kajimoto, Noribumi; Kawakami, Yoshio; and Takizawa, Masahiro, to TDK Electronics Co., Ltd. Magnetic recording medium. 4,673,622, 6-16-87, Cl. 428-423.100.
- Kajimoto, Norifumi; and Azegami, Hitoshi, to TDK Corporation. Magnetic recording medium. 4,643,934, 2-17-87, Cl. 428-141.000.
- Kajimura, Haruhiko; Nagano, Hiroo; and Miura, Minoru, to Sumitomo Metal Industries, Ltd. Dual-phase stainless steel with improved resistance to corrosion by nitric acid. 4,640,817, 2-3-87, Cl. 420-50.000.
- Kajimura, Haruhiko; Nagano, Hiroo; and Miura, Minoru, to Sumitomo Metal Industries, Ltd. Austenitic stainless steel with improved resistance to corrosion by nitric acid. 4,671,929, 6-9-87, Cl. 420-44.000.
- Kajino, Jirou: *See—*
  - Matsuoka, Kaoru; Maeoka, Tadashi; Kajino, Jirou; Minabe, Hitoshi; and Tanaka, Tetsurou, 4,704,643, Cl. 360-71.000.
  - Saito, Fuminari; Kajino, Jirou; and Kanchiku, Hiroshi, 4,672,476, Cl. 360-85.000.
- Kajioka, Hiroyuki: *See—*
  - Katayama, Hiroyuki; Ishikawa, Hidetake; Kuwabara, Masatoshi; Kajioka, Hiroyuki; Fujita, Masaki; Shibata, Kenji; Tamura, Yoshiaki; and Shimanuki, Takashi, 4,662,937, Cl. 75-80.000.
- Kajioka, Yasuo; Komine, Tomio; Kadowaki, Hitoshi; Matsuda, Shigeyoshi; Yugami, Yoshinori; Kubota, Shinya; Takahashi, Yoshio; Shimada, Hiroshi; and Kurata, Nobutaka, to Shimizu Construction Co., Ltd. Climbing formwork apparatus for concrete placing. 4,709,899, 12-1-87, Cl. 249-20.000.
- Kajita, Hiroshi; Ujino, Koji; and Uehara, Yoshiyuki, to Mita Industrial Co., Ltd. Electrostatic copying apparatus. 4,697,911, 10-6-87, Cl. 355-3.0SH.
- Kajita, Hiroshi: *See—*
  - Iseki, Masahide; Yoshiyama, Toshio; Kajita, Hiroshi; Itakiyo, Masanori; Kusumoto, Hiroshi; Kawamori, Yoshizo; and Kawamoto, Masuo, 4,668,076, Cl. 355-15.000.
  - Iseki, Masahide; Yoshiyama, Toshio; Kajita, Hiroshi; Itakiyo, Masanori; Kusumoto, Hiroshi; Kawamori, Yoshizo; and Kawamoto, Masuo, 4,674,859, Cl. 355-3.0FU.
  - Iseki, Masahide; Yoshiyama, Toshio; Kajita, Hiroshi; Itakiyo, Masanori; Kusumoto, Hiroshi; Kawamori, Yoshizo; and Kawamoto, Masuo, 4,685,792, Cl. 355-3.0SH.
  - Sumida, Yasuji; Kajita, Hiroshi; and Fujioka, Tadashi, 4,671,644, Cl. 355-3.00R.
  - Sumida, Yasuji; Kajita, Hiroshi; and Fujioka, Tadashi, 4,693,586, Cl. 355-3.0SH.
  - Sumida, Yasuji; Kajita, Hiroshi; and Fujioka, Tadashi, 4,711,550, Cl. 355-3.0SH.
- Kajita, Koji: *See—*
  - Noguchi, Kunio; Totsune, Atsushi; Kajita, Koji; and Hosaka, Takefumi, 4,681,078, Cl. 123-490.000.
- Kajita, Shuji: *See—*
  - Kamide, Kenji; Honda, Yutaka; and Kajita, Shuji, 4,663,232, Cl. 428-400.000.
- Kajita, Takeyoshi, to Mitsubishi Denki Kabushiki Kaisha. Flywheel power source apparatus. 4,707,774, 11-17-87, Cl. 363-37.000.
- Kajita, Tetsuya: *See—*
  - Sadaki, Hiroshi; Imaizumi, Hiroyuki; Takeda, Kenji; Inaba, Takihiro; Takeno, Ryuko; Morita, Seishi; Kajita, Tetsuya; and Saikawa, Isamu, 4,667,040, Cl. 548-195.000.
- Kajita, Yasuyuki: *See—*
  - Oshima, Junji; Yamada, Minoru; and Kajita, Yasuyuki, 4,684,695, Cl. 525-36.000.
- Kajitani, Hayashi: *See—*
  - Yamada, Norio; Kajitani, Hayashi; Chiba, Kyoji; and Edagawa, Mitsugu, 4,636,966, Cl. 364-491.000.
- Kajitani, Juji: *See—*
  - Tojima, Hiromi; and Kajitani, Juji, 4,674,991, Cl. 464-24.000.
- Kajitani, Kazuo, to Olympus Optical Co., Ltd. Lens system for optical disks. 4,655,556, 4-7-87, Cl. 350-432.000.
- Kajitani, Kazuo: *See—*
  - Iba, Yoichi; Kimura, Tadashi; and Kajitani, Kazuo, 4,640,586, Cl. 350-414.000.
- Kajitani, Makoto: *See—*
  - Fujimura, Hajime; Hiramatu, Yasuzo; Yabuuchi, Takahiro; Hisaki, Masakatu; Takikawa, Katsuo; Honna, Takaji; Miyake, Hidekazu; and Kajitani, Makoto, 4,666,911, Cl. 514-255.000.
  - Micetich, Ronald G.; Yamabe, Shigeru; Tanaka, Motoaki; Yamazaki, Tomio; Ishida, Naobumi; and Kajitani, Makoto, 4,668,514, Cl. 424-114.000.
- Kajitani, Tetsuji: *See—*
  - Kai, Masami; Kurando, Shigeo; Katafuchi, Toshinobu; Amakawa, Katsumi; and Kajitani, Tetsuji, 4,659,206, Cl. 355-3.0DR.
- Kajiura, Motomu: *See—*
  - Sakamoto, Haruo; and Kajiura, Motomu, 4,659,158, Cl. 339-19.000.
- Kajiura, Toshinori: *See—*
  - Sakaibara, Toru; Tsujioka, Shigeo; Kajiura, Toshinori; Aoshima, Toshihisa; and Tonomura, Motonobu, 4,709,231, Cl. 340-729.000.
- Kajiwara, Hideki: *See—*
  - Suehisa, Shiro; and Kajiwara, Hideki, 4,657,400, Cl. 366-144.000.
- Kajiwara, Ikuo: *See—*
  - Takematsu, Tetsuo; Konnai, Makoto; Shimizu, Kumaki; Urashibata, Ikumi; and Kajiwara, Ikuo, 4,659,371, Cl. 71-103.000.
- Kajiwara, Makoto; and Onodera, Kaoru, to Konishiroku Photo Industry Co., Ltd. Light-sensitive silver halide photographic material. 4,661,441, 4-28-87, Cl. 430-555.000.
- Kajiwara, Seiji: *See—*
  - Iwanaka, Masaya; and Kajiwara, Seiji, 4,637,489, Cl. 181-160.000.
- Kajiwara, Shigemasa: *See—*
  - Nagahiro, Kenichi; Ishida, Atsushi; and Kajiwara, Shigemasa, 4,656,977, Cl. 123-90.160.
- Kajiwara, Toshiyuki; Kimura, Tomoaki; and Nihei, Mitsuo, to Hitachi, Ltd. Method of continuously hot-rolling steel pieces. 4,706,871, 11-17-87, Cl. 228-158.000.
- Kajiwara, Toshiyuki: *See—*
  - Kikuma, Toshio; Matsumoto, Hiromi; Tagawa, Masayoshi; Kajiwara, Toshiyuki; Kimura, Tomoaki; Iida, Yoshihiko; and Yoshimoto, Kenichi, 4,700,312, Cl. 364-472.000.
- Kajiwara, Yasuya, to Mitsubishi Denki Kabushiki Kaisha. Cooler for automotive use. 4,658,599, 4-21-87, Cl. 62-239.000.
- Kajiwara, Yuji, to NEC Corporation. Amorphous silicon photo-sensor for a contact type image sensor. 4,698,495, 10-6-87, Cl. 250-211.00R.
- Kajiwara, Yukio: *See—*
  - Kohyama, Katsuhisa; Kimura, Tsuneo; Kidera, Teruo; and Kajiwara, Yukio, 4,664,679, Cl. 51-308.000.
- Kajiyama, Koichi: *See—*
  - Nozue, Yasuhiro; Kajiyama, Koichi; and Sajiki, Kazuaki, 4,691,322, Cl. 372-82.000.
- Kajiyama, Kouji: *See—*
  - Ueda, Kazuhiro; Yamaguchi, Toshiaki; Kajiyama, Kouji; and Matsumoto, Osamu, 4,714,089, Cl. 137-614.180.
- Kajiyama, Ryuichi; and Takahashi, Ryoji, to Mitsubishi Denki Kabushiki Kaisha. Input signal switching matrix for an elevator. 4,677,437, 6-30-87, Cl. 340-825.790.
- Kajs, Theresa M.; and Berge, Cynthia A., to Procter & Gamble Company, The. Antimicrobial toilet bars. 4,714,563, 12-22-87, Cl. 252-107.000.
- Kakarala, Chandrasekhara R.: *See—*
  - Durrant, Oliver W.; Kakarala, Chandrasekhara R.; and Mandel, Sheldon W., 4,656,335, Cl. 219-271.000.
  - Durrant, Oliver W.; Kakarala, Chandrasekhara R.; and Mandel, Sheldon W., 4,674,285, Cl. 60-676.000.
- Kakavas, Dorothy A., to Aadams Merchandising, Inc. Display table attachment for shopping carts. 4,679,818, 7-14-87, Cl. 280-33.99A.
- Kakegawa, Hisao: *See—*
  - Satoh, Toshio; Matsumoto, Hitoshi; Kakegawa, Hisao; Kato, Yoshiko; Riku, Juichi; Yoshinaga, Junji; and Kanamoto, Yoshifumi, 4,634,777, Cl. 548-561.000.
- Kakegawa, Kazuyuki: *See—*
  - Shirasaki, Shin-ichi; Hotta, Yasunari; Yamamura, Hiroshi; Matsuda, Shin-ichi; Kakegawa, Kazuyuki; Moriyoshi, Yusuke; Takahashi, Koichiro; and Haneda, Hajime, 4,696,810, Cl. 423-593.000.
- Kakegawa, Masayuki: *See—*
  - Kon, Takao; Yano, Kensaku; Kakegawa, Masayuki; and Shibata, Hidenori, 4,688,098, Cl. 358-213.190.
- Kakehi, Tohru: *See—*
  - Matsui, Katsumasa; Ohba, Masahiro; Kakehi, Tohru; and Kawai, Takayoshi, 4,696,167, Cl. 62-180.000.
- Kakehi, Yutaka, to Hitachi, Ltd. Semiconductor substrate transport system. 4,664,578, 5-12-87, Cl. 414-217.000.
- Kaken Pharmaceutical Co., Ltd.: *See—*
  - Naito, Takanobu; Yokoyama, Masaaki; Sasaki, Kazuya; Yamamoto, Makoto; and Amemiya, Kouji, 4,691,014, Cl. 540-227.000.
  - Nakano, Jun; Nagahara, Michiko; Hayashida, Mitsuo; Suzuki, Yuji; and Maruyama, Yohichi, 4,652,566, Cl. 514-253.000.
  - Ohishi, Yoshitaka; Nagahara, Michiko; Kajikawa, Norio; Yajima, Motoyuki; Nogimori, Katsumi; and Kurokawa, Shigeki, 4,666,931, Cl. 514-389.000.
  - Uchida, Katsuhiro; Masumoto, Shozo; Tohno, Masao; Mimura, Mitsuo; Okumura, Makoto; Ichikawa, Kiyonoshin; and Matsumura, Misako, 4,699,925, Cl. 514-559.000.

Kakeno, Mitsutaka: *See—*

Kamigaito, Osami; Doi, Haruo; Noda, Shoji; Hioki, Tatsumi; Itoh, Akio; and Kakeno, Mitsutaka, 4,678,678, Cl. 427-38.000.

Kakihana, Sanehiko, to Gould Inc. Field effect transistor. 4,698,899, 10-13-87, Cl. 437-44.000.

Kakii, Toshiaki; Matsuno, Koichiro; Kawada, Osamu; Ito, Ryozo; and Nakamura, Eiji, to Nippon Telegraph & Telephone Corporation; and Nippon Kogaku K. K. Method and apparatus for simultaneously observing a transparent object from two directions. 4,682,864, 7-28-87, Cl. 350-511.000.

Kakii, Toshiaki; Matsuno, Koichiro; Suzuki, Shuzo; Ashiya, Fumihiro; and Ishihara, Koushi, to Sumitomo Electric Industries, Ltd.; and Nippon Telegraph & Telephone Corporation. Optical connector and method of manufacturing a pair of ferrules therefor. 4,708,433, 11-24-87, Cl. 350-96.220.

Kakimi, Fujio; and Mikami, Takeshi, to Fuji Photo Film Co., Ltd. Encapsulated electrostatographic toner material. 4,642,281, 2-10-87, Cl. 430-138.000.

Kakimi, Fujio; Matsukawa, Hiroharu; Akiyoshi, Yutaka; and Kobayashi, Shinzo, to Fuji Photo Film Co., Ltd. Microcapsules for immune response. 4,650,769, 3-17-87, Cl. 436-533.000.

Kakimi, Fujio: *See—*

Naoi, Takashi; Kakimi, Fujio; and Mikami, Takeshi, 4,699,866, Cl. 430-138.000.

Kakimi, Shigeru: *See—*

Masho, Yukio; Kakimi, Shigeru; Ueki, Toru; Miyauchi, Satoshi; Ohigashi, Tugio; and Kurohata, Hitoshi, 4,705,154, Cl. 194-319.000.

Kakimoto, Norihiro; Katayama, Takashi; Hazato, Tadahiko; and Ohnishi, Tsutomu, to Asai Germanium Research Institute. Organogermanium compound. 4,681,960, 7-21-87, Cl. 556-83.000.

Kakimoto, Osamu; and Nagoshi, Fumiya, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Process for preparing thermoplastic resin composition. 4,694,032, 9-15-87, Cl. 523-334.000.

Kakimoto, Osamu: *See—*

Ohshima, Hiroshi; and Kakimoto, Osamu, 4,668,833, Cl. 570-241.000.

Kakimoto, Seiji: *See—*

Sekimura, Nobuyuki; Masaki, Yuichi; Terada, Katsunori; and Kakimoto, Seiji, 4,675,534, Cl. 250-578.000.

Kakimoto, Seizo; Kudo, Jun; and Koba, Masayoshi, to Sharp Kabushiki Kaisha. Method of forming monocrystalline thin films by parallel beam scanning of belt shaped refractory metal film on amorphous or polycrystalline layer. 4,655,850, 4-7-87, Cl. 148-1.500.

Kakimoto, Toshihiko, to Nissan Motor Co., Ltd. Fluid-filled engine mount device. 4,657,219, 4-14-87, Cl. 248-562.000.

Kakino, Shigeru; Moriyama, Hideo; Sugimoto, Kazutoshi; and Motohira, Tsukasa, to Nippon Oil and Fats Company, Limited. Method for supplying a water-in-oil emulsion explosive into a cartridge machine and an apparatus used therefor. 4,671,160, 6-9-87, Cl. 86-20.100.

Kakinoki, Toshiyuki; and Hirata, Kazuhiko, to Matsushita Electric Works, Ltd. Automatic faucet apparatus. 4,688,277, 8-25-87, Cl. 4-623.000.

Kakinuma, Asao: *See—*

Niwa, Yoshiyuki; Kashiwagi, Masahiro; Yasue, Masahiro; Bandoh, Shunichi; Kakinuma, Asao; and Wakatsuki, Tadashi, 4,676,720, Cl. 416-134.00A.

Kakinuma, Hiroaki; Fukuda, Hisashi; and Nishikawa, Satoshi, to OKI Electric Industry Co., Ltd. Method of making electrophotographic member with a-Si photoconductive layer. 4,664,999, 5-12-87, Cl. 430-67.000.

Kakinuma, Kazuo: *See—*

Toyama, Takashi; Ohno, Masashi; Ishii, Kiminori; Yamamoto, Shosaku; and Kakinuma, Kazuo, 4,707,381, Cl. 427-407.100.

Kakinuma, Masami: *See—*

Ishizawa, Tadao; Kotaka, Hirofumi; and Kakinuana, Masami, 4,697,994, Cl. 418-8.000.

Kakinuma, Mitsuru: *See—*

Togashi, Shigeru; Saitoh, Hiromi; Takahashi, Shigeyuki; Makino, Yasuo; Kakinuma, Mitsuru; Satoh, Shigeo; and Sugiyama, Shigeki, 4,703,628, Cl. 62-135.000.

Kakinuma, Nobuo: *See—*

Ogata, Masao; and Kakinuma, Nobuo, 4,670,726, Cl. 335-212.000.

Kakis, Frederic J. Food dehydration process. 4,707,370, 11-17-87, Cl. 426-443.000.

Kakishima, Mitsutoshi: *See—*

Matsui, Tsutomu; Fujii, Shinichiro; and Kakishima, Mitsutoshi, 4,643,597, Cl. 400-124.000.

Kakita, Yukio: *See—*

Fukuda, Masao; Kakita, Yukio; Ueda, Kenji; Terashima, Kiichi; and Bochi, Hiroshi, 4,711,345, Cl. 198-572.000.

Nakagawa, Yukio; Kakita, Yukio; and Kitagawa, Kazumi, 4,683,966, Cl. 177-25.000.

Kakiuchi, Hajime: *See—*

Mashimo, Satoshi; Kakiuchi, Hajime; and Nakajima, Masayoshi, 4,642,082, Cl. 474-260.000.

Kakiuchi, Shinichi; Saito, Tasuku; and Tomita, Seisuke, to Bridgestone Corporation. Rubber compositions for solid golf balls. 4,683,257, 7-28-87, Cl. 524-432.000.

Kakiuchi, Tsutomu: *See—*

Yokoyama, Yoshihiro; Kamon, Yoshiyuki; and Kakiuchi, Tsutomu, 4,668,842, Cl. 381-183.000.

Kakizaki, Kimio: *See—*

Sasaki, Toshi; Yoshida, Hiromichi; Fukuda, Shigeho; Oizumi, Kiyoshi; Kakizaki, Kimio; Nakayama, Wataru; Daikoku, Takahiro; Nakajima, Tadakatsu; and Nakayama, Yoshihiko, 4,678,029, Cl. 165-133.000.

Kakizaki, Takehiro; and Araki, Shoji, to Sony Corporation. Image pickup apparatus. 4,698,558, 10-6-87, Cl. 315-383.000.

Kakizaki, Takehiro; Araki, Shoji; and Numata, Shinichi, to Sony Corporation. Cathode ray tube. 4,707,634, 11-17-87, Cl. 313-432.000.

Kakizaki, Tetsuji; Mizutani, Toshikazu; and Yui, Hiroshi, to Mitsubishi Petrochemical Co., Ltd. Semiconductive resin composition. 4,696,765, 9-29-87, Cl. 252-511.000.

Kakizaki, Tetsuji: *See—*

Horie, Shinji; and Kakizaki, Tetsuji, 4,659,796, Cl. 526-310.000.

Takahashi, Hiroshi; Kakizaki, Tetsuji; Kato, Mitsuyoshi; and Nishida, Koji, 4,702,554, Cl. 350-96.300.

Kakizaki, Yukio: *See—*

Tanaka, Hiroshi; Kakizaki, Yukio; Iwata, Hiromitsu; and Naraki, Tsuyoshi, 4,655,584, Cl. 355-53.000.

Tanaka, Hiroshi; Iwata, Hiromitsu; and Kakizaki, Yukio, 4,716,299, Cl. 250-571.000.

Kakizawa, Haruo: *See—*

Tanaka, Kazuto; Kakizawa, Haruo; and Nagata, Kouichi, 4,639,099, Cl. 350-538.000.

Kakizawa, Koichiro: *See—*

Ichihashi, Tadashi; Kakizawa, Koichiro; and Kawamura, Masunori, 4,711,542, Cl. 351-221.000.

Kakizawa, Toshio: *See—*

Tatsumi, Hisao; Kayata, Haruhiko; Yamamori, Kenji; Kakizawa, Toshio; and Mogi, Toshiaki, 4,712,115, Cl. 346-76.0PH.

Kakizoe, Masahiro: *See—*

Mori, Teijiro; Wada, Yuichi; Nishizako, Shizutaka; Kakizoe, Masahiro; and Masuda, Shigeru, 4,652,707, Cl. 200-144.00R.

Okado, Hiroyuki; Nishizako, Shizutaka; Sako, Yuji; and Kakizoe, Masahiro, 4,654,744, Cl. 361-159.000.

Kako, Hiroyoshi: *See—*

Yamamoto, Toshiaki; Kako, Hiroyoshi; Shibata, Takuo; Izuo, Takashi; Kamimae, Hajime; and Takegawa, Hiroaki, 4,696,379, Cl. 188-299.000.

Kako, Noritoshi: *See—*

Takakura, Masaki; Noguchi, Yoji; Yamane, Yasukuni; and Kako, Noritoshi, 4,695,966, Cl. 364-521.000.

Kako, Yukio: *See—*

Morishita, Akira; Okamoto, Kyoichi; Gotoh, Toshihiko; Kako, Yukio; and Arima, Takemi, 4,715,243, Cl. 74-434.000.

Kakoki Engineering Service Co., Ltd.: *See—*

Nagatsuka, Kenichi; and Watanabe, Hidenori, 4,664,212, Cl. 180-164.000.

Kakonyi, Gyula: *See—*

Kasza, Tibor; Kakonyi, Gyula; Koeso, Illes; Buzas, Attila; and Radvanyi, Laszlo , 4,682,137, Cl. 335-284.000.

Kakoschke, Christel: *See—*

Morr, Michael; Kakoschke, Christel; and Fritz, Hans-Joachim, 4,689,407, Cl. 536-27.000.

Kaku, Shinkyo: *See—*

Menon, Vinod; and Kaku, Shinkyo, 4,716,467, Cl. 358-260.000.

Kaku, Takashi, to Fujitsu Limited. Training method of data receiving equipment. 4,672,630, 6-9-87, Cl. 375-13.000.

Kaku, Takashi; and Arai, Yasuhiro, to Fujitsu Limited. Method and device for timing pull-in of receiving equipment. 4,694,469, 9-15-87, Cl. 375-13.000.

Kaku, Toshimitsu; Kataoka, Keiji; Tsunoda, Yoshito; and Shigematsu, Kazuo, to Hitachi, Ltd. Optical information recording and reproducing apparatus. 4,656,618, 4-7-87, Cl. 369-112.000.

Kaku, Toshimitsu; Tsunoda, Yoshito; Maeda, Takeshi; and Nakamura, Shigeru, to Hitachi, Ltd. Optical information processor for compensating offset. 4,663,751, 5-5-87, Cl. 369-46.000.

Kaku, Yoshihiro; and Otsu, Keiichiro, to Kabushiki Kaisha Toyoda Jidoshokki Seisakusho; and Taiho Kogyo Co., Ltd. Swash plate type compressor shoe. 4,662,267, 5-5-87, Cl. 92-71.000.

Kakubari, Shoichiro; and Okamura, Hidetomo, to Yamani Netsu Kogyo. Barbecue burner device. 4,635,612, 1-13-87, Cl. 126-25.00R.

Kakubari, Toru: *See—*

Hyodo, Tohru; and Kakubari, Toru, 4,667,612, Cl. 112-277.000.

Kakubo, Yuji; Niimi, Koji; and Ikegaya, Yuji, to Nippon Gakki Seizo Kabushiki Kaisha. Reverberation imparting device. 4,706,291, 11-10-87, Cl. 381-63.000.

Kakuchi, Masami: *See—*

Fujii, Tsuneo; Inukai, Hiroshi; Deguchi, Takayuki; Amano, Toshihiko; Kakuchi, Masami; Asakawa, Hiroshi; and Kogure, Osamu, 4,686,168, Cl. 430-326.000.

Kakuda, Itsusuke: *See—*

Noh, Akihiko; Sato, Shinichi; Kakuda, Itsusuke; and Kanno, Shigeyuki, 4,701,994, Cl. 29-568.000.

Kakuda, Masayuki: *See—*

Morishita, Etsuo; Narumiya, Hiroshi; Kakuda, Masayuki; and Sugihara, Masahiro, 4,674,963, Cl. 418-55.000.

Kakuda, Yoshiaki; Wakahara, Yasushi; and Norigoe, Masamitsu, to Kokusai Denshin Denwa Co., Ltd. Protocol validation system. 4,694,422, 9-15-87, Cl. 364-900.000.

Kakugo, Masahiro; and Wakatsuki, Kizuku, to Sumitomo Chemical Company, Limited. Crystalline polybutene-1 compositions. 4,663,394, 5-5-87, Cl. 525-297.000.

Kakugo, Masahiro: *See—*

Shiga, Akinobu; Kakugo, Masahiro; Kozima, Junpei; and Wakatsuki, Kizuku, 4,696,979, Cl. 525-247.000.

Kakui, Yasuhiko: *See—*
  Hashimoto, Matsuo; Kiyomoto, Masayuki; Karasawa, Yoshimitsu; Sakamoto, Kenji; Kakui, Yasuhiko; and Hirasawa, Yutaka, 4,675,252, Cl. 428-431.000.
Kakuma, Hideaki: *See—*
  Kuwano, Hiroaki; Matsushita, Toshiro; Kakuma, Hideaki; and Motomiya, Teruaki, 4,648,580, Cl. 251-129.010.
Kakumoto, Hideki: *See—*
  Matsubara, Toshio; Kakumoto, Hideki; and Okazaki, Kazuyuki, 4,646,702, Cl. 123-520.000.
Kakuse, Katsuharu; and Tsukiyama, Tokuhiro, to Hitachi, Ltd. Sector mark signal control circuit for disc apparatus. 4,663,752, 5-5-87, Cl. 369-48.000.
Kakushima, Masatoshi: *See—*
  Frenette, Richard; Rokach, Joshua; Kakushima, Masatoshi; and Young, Robert N., 4,683,325, Cl. 560-10.000.
Kakuta, Atsushi: *See—*
  Tachiki, Shigeo; Shibuya, Ikutoshi; Fujikura, Makoto; and Kakuta, Atsushi, 4,657,834, Cl. 430-58.000.
Kakuta, Kazuo, to Nippon Seiko Kabushiki Kaisha. Magnetic disc memory device. 4,656,545, 4-7-87, Cl. 360-98.000.
Kakuta, Takeshi: *See—*
  Miyatsuka, Hajime; Kasuga, Akira; Matsufuji, Akihiro; and Kakuta, Takeshi, 4,687,705, Cl. 428-329.000.
Kakuta, Yonehiro: *See—*
  Saito, Kaoru; Noji, Akio; Kakuta, Yonehiro; and Takigawa, Koichi, 4,700,479, Cl. 33-366.000.
Kakuta, Yoshiyuki: *See—*
  Matsui, Fumio; Yanagisawa, Shuichi; Kakuta, Yoshiyuki; and Yoshizawa, Atsushi, 4,639,745, Cl. 346-135.100.
Kakutani, Haruko: *See—*
  Murayama, Naohiro; Kakutani, Haruko; Mizuno, Toshiya; Nakamura, Kenichi; and Terasaki, Syuji, 4,656,234, Cl. 526-255.000.
Kakutani, Osamu: *See—*
  Watanabe, Kenji; Yamazaki, Isamu; Kyomasu, Ryuichi; Takasugi, Nobuhiro; Mimata, Tsutomu; and Kakutani, Osamu, 4,674,670, Cl. 228-102.000.
Kakuyama, Shinji: *See—*
  Hagita, Shoji; and Kakuyama, Shinji, 4,651,230, Cl. 358-314.000.
Kakuzen, Hideo: *See—*
  Yoshida, Masaaki; Endo, Shigeki; Kisanuki, Shigeru; and Kakuzen, Hideo, 4,713,107, Cl. 65-157.000.
Kal Kan Foods, Inc.: *See—*
  Gordon, Charles, 4,641,665, Cl. 119-1.000.
Kal, Stephen: *See—*
  Saint Ive, Michael H., 4,711,453, Cl. 273-268.000.
Kaladas, Jeffrey J.: *See—*
  Schulz, Donald N.; and Kaladas, Jeffrey J., 4,708,998, Cl. 526-287.000.
Kalafala, Ahmed K.: *See—*
  Chari, Madabushi V.; Kalafala, Ahmed K.; D'Angelo, John; and Palmo, Michael A., Jr., 4,646,045, Cl. 335-301.000.
Kalafus, Rudolph M., to United States of America, Transportation. VHF/radar transponder collision avoidance aid. 4,684,949, 8-4-87, Cl. 342-41.000.
Kalagidis, Memorial, to Ametek, Inc. Magnetic flux shield and enhancer for brushless motors. 4,638,197, 1-20-87, Cl. 310-67.00R.
Kalal, Jaroslav: *See—*
  Tlustakova, Marie; Horak, Jiri; Vavrouch, Josef; Kulisek, Jiri; and Kalal, Jaroslav, 4,634,604, Cl. 427-213.330.
Kalamazoo Holdings, Inc.: *See—*
  Todd, Paul H., Jr.; and Guzinski, James A., 4,647,464, Cl. 426-423.000.
  Todd, Paul H., Jr., 4,666,731, Cl. 426-600.000.
Kalarickal, Mathew S. Electronic algesimeter. 4,641,661, 2-10-87, Cl. 128-744.000.
Kalash, Kenneth E.: *See—*
  Barclay, John A.; Stewart, Walter F.; Henke, Michael D.; and Kalash, Kenneth E., 4,704,871, Cl. 62-3.000.
Kalaskie, Frank E.: *See—*
  Wood, John F. B.; Kaiser, Timothy D.; Allyn, Jerome B.; Dykes, Charles D.; Kalaskie, Frank E.; Carmichael, Robert J.; and Simon, Charles R., 4,694,899, Cl. 164-452.000.
Kalaskie, William S.; and Hughes, David E., to Stanley G. Flagg & Co., Inc. Pneumatically operated valve with manual override and lockout. 4,706,929, 11-17-87, Cl. 251-14.000.
Kalathakis, Kyriacos: *See—*
  Bentzen, Craig L.; Guyon-Gellin, Yves; Kalathakis, Kyriacos; Phan, Hieu T.; Nguyen Mong, Lan; Niesor, Eric; and Rossier, Jean-Robert, 4,696,920, Cl. 514-89.000.
Kalawrytinos, Georg: *See—*
  Iniotakis, Nicolaos; Frohling, Werner; Kalawrytinos, Georg; and von der Decken, Claus-Benedict, 4,643,832, Cl. 210-712.000.
Kalayjian, Harry: *See—*
  Peters, Henry T.; and Kalayjian, Harry, 4,675,541, Cl. 307-117.000.
Kalb, Charles E.: *See—*
  Schwarz, Alexander; Kalb, Charles E.; and Goebel, Charles C., 4,715,431, Cl. 105-110.000.
  Schwarz, Alexander; and Kalb, Charles E., 4,715,433, Cl. 165-110.000.
Kalb, Gerald F.; and Brown, David M., to S.I.E., Inc. Shock absorber. 4,679,669, 7-14-87, Cl. 188-375.000.
Kalbacher, Klaus: *See—*
  Grossmann, Horst; Kalbacher, Klaus; Kolesch, Claus; and Schekulin, Karl, 4,657,088, Cl. 173-13.000.
Kalbag, Suresh M.; and Voelker, Paul J., to SmithKline Beckman Corporation. Cupric oxidation of 1,6-dimercapto-containing peptides. 4,656,248, 4-7-87, Cl. 530-315.000.
Kalberer, Roderick W.: *See—*
  Gordon, Robert L.; and Kalberer, Roderick W., 4,705,197, Cl. 206-604.000.
Kalbfeld, Jack W., to Union Connector Co., Inc. Support and strain relief combination. 4,640,984, 2-3-87, Cl. 174-135.000.
Kalck, Charles W., Sr.: *See—*
  Capasso, Vincent; and Kalck, Charles W., Sr., 4,638,866, Cl. 169-90.000.
Kalck, Kathy: *See—*
  Capasso, Vincent; and Kalck, Charles W., Sr., 4,638,866, Cl. 169-90.000.
Kaldor, Istvan; Szasz, Andras; Vegh nee Ba, Ilona; Heizer, Jozsef; and Behedek nee Haraszin, Eva, to Chinoin Gyogyszer es Vegyeszeti Termekek Gyara Rt. Process for preparing thio, dithio or carbonyl compounds. 4,656,290, 4-7-87, Cl. 548-306.000.
Kale, Hemant D. Compartmentalized electric liquid heater. 4,692,592, 9-8-87, Cl. 219-298.000.
Kaleita, David L.; Zboralski, James A.; and Hock, Darryl A., to Jabil Circuit Company. Programmable telephone switcher. 4,674,115, 6-16-87, Cl. 379-201.000.
Kalen, David D., to Babcock & Wilcox Company, The. Reactor internals core barrel hole plug. 4,693,389, 9-15-87, Cl. 220-236.000.
Kalender, Willi; Schmitt, Guenter; and Suess, Christoph, to Siemens Aktiengesellschaft. Patient support bodies including reference elements for a tomographic apparatus. 4,651,335, 3-17-87, Cl. 378-20.000.
Kaleskas, Edward: *See—*
  Epstein, Paul; Petschek, Harry; LaWhite, Eric; Strohl, Clair; Coyne, Henry; Kaleskas, Edward; and Adamiya, George, 4,696,671, Cl. 604-67.000.
Kalewicz, Zdzislaw: *See—*
  Barre, Maurice; and Kalewicz, Zdzislaw, 4,713,112, Cl. 106-14.050.
Kalfa, Horst: *See—*
  Buhler, Hans-Eugen; Stein, Hermann; Levkov, Blagoje; Kainer, Hartmut; Kalfa, Horst; and Grimm, Daniel, 4,656,148, Cl. 502-34.000.
  Wagener, Dietrich; Laue, Karl H.; Wunderlich, Egmar; Sander, Theo; Flockenhaus, Claus; Hackler, Erich; Levkov, Blagoje; Grimm, Daniel; Kainer, Hartmut; Stein, Hermann; Buhler, Hans-Eugen; Kalfa, Horst; Jansen, Johann; Stender, Werner; and Max, Arnold, 4,695,559, Cl. 502-183.000.
Kalfayan, Leonard J.; Watkins, David R.; and Hewgill, Gregory S., to Union Oil Company of California. Scale removal treatment. 4,708,207, 11-24-87, Cl. 166-295.000.
Kalfayan, Leonard J.: *See—*
  Watkins, David R.; Kalfayan, Leonard J.; and Hewgill, Gregory S., 4,646,835, Cl. 166-295.000.
Kalfs, Johannes J. W.: *See—*
  Martens, Theodorus G. J. A.; Steenhof, Frits A.; and Kalfs, Johannes J. W., 4,641,310, Cl. 371-38.000.
Kali-Chemie Aktiengesellschaft: *See—*
  Doetsch, Werner; and Siegel, Rudolf, 4,681,697, Cl. 252-175.000.
  Feist, Heinz-Rudi; Buchwald, Hans; Raschkowski, Boleslaus; and Rudolph, Werner, 4,659,493, Cl. 252-54.600.
  Weidenbach, Guenter; Bonse, Dirk; and Meyer, Boris, 4,665,025, Cl. 435-94.000.
  Willenberg, Heinrich; Pohlmeyer, Wilhelm; and Rudolph, Werner, 4,694,112, Cl. 568-842.000.
Kali-Chemie Pharma GmbH: *See—*
  Heinemann, Henning; Kehrbach, Wolfgang; Schoen, Uwe; Buschmann, Gerd; and Kuhl, Ulrich, 4,695,566, Cl. 514-234.000.
  Jasserand, Daniel; Christen, Marie-Odile; Biard, Dominique; and Yavordios, Dimitri, 4,672,063, Cl. 514-252.000.
  Ohlendorf, Heinrich-Wilhelm; Ruhland, Michael; and Wolf, Klaus-Ullrich, 4,672,062, Cl. 514-227.000.
  Thies, Peter W.; David, Samuel; Kuehl, Ulrich; Buschmann, Gerd; and Flecker, Peter, 4,714,709, Cl. 514-414.000.
  Zeugner, Horst; Romer, Dietmar; Liepmann, Hans; and Milkowski, Wolfgang, 4,649,137, Cl. 514-221.000.
Kali und Salz: *See—*
  Vajna, Sandor; and Peuschel, Gerd, 4,707,347, Cl. 423-552.000.
Kalin, Arthur, to Werkzeugmaschinenfabrik Oerlikon-Buhrle AG. Apparatus for recoilless firing of projectiles from a lauching tube. 4,676,136, 6-30-87, Cl. 89-1.701.
Kalin, Horst W.: *See—*
  Coleman, Darrel F.; Kalin, Horst W.; and Verhaagen, Donald R., 4,645,242, Cl. 285-158.000.
  Mesnard, David R.; and Kalin, Horst W., 4,633,713, Cl. 73-866.500.
Kalinigradsky Technical Institute of Fish Industry and Economy: *See—*
  Gik, Lev A.; and Vilensky, Boris L., 4,663,891, Cl. 51-288.000.
Kalinowski, Robert E.: *See—*
  Graiver, Daniel; and Kalinowski, Robert E., 4,710,405, Cl. 427-387.000.
Kalista, Daniel J.: *See—*
  Bongard, James A.; Delaney, Michael J.; Duncan, Eugene F.; Fredricks, Cheryl A.; Groves, John P.; Kalista, Daniel J.; Klingseisen, Paul; Lazzaro, Joseph; and Nadolski, Gregory L., 4,678,867, Cl. 174-135.000.
Kalisvaart, Pieter A.: *See—*
  Everts, Rudi; and Kalisvaart, Pieter A., 4,664,787, Cl. 208-410.000.
Kaliszek, Andrew W.: *See—*
  Campisi, Carl; Kaliszek, Andrew W.; and Klein, Elmer M., 4,663,821, Cl. 29-564.200.

Kalivas, Grigorios A.: *See—*
Harrison, Robert G.; and Kalivas, Grigorios A., 4,636,757, Cl. 333-218.000.
Kaljas Pty. Limited: *See—*
Kalocsai, Guy I. Z., 4,684,404, Cl. 75-118.00R.
Kaljuzhny, Nikolai N.: *See—*
Golubenko, Alexandr L.; Turchin, Viktor P.; Konyaey, Alexei N.; Sukhov, Igor N.; Kaljuzhny, Nikolai N.; Filonov, Arkady S.; Koropets, Alexei P.; Pinovsky, Mikhail I.; Tkachenko, Viktor P.; and Kramar, Nikolai M., 4,635,990, Cl. 295-11.000.
Kalk, Walter; Schundehutte, Karl H.; and Soll, Manfred, to Bayer Aktiengesellschaft. Quaternary reactive compounds. 4,695,632, 9-22-87, Cl. 544-194.000.
Kalkbrenner, Ralph W.: *See—*
Bova, Ignatius N.; Kalkbrenner, Ralph W.; and Leumann, Hans E., 4,699,750, Cl. 376-245.000.
Kobuck, Richard M.; and Kalkbrenner, Ralph W., 4,711,436, Cl. 269-40.000.
Kalkhof, Bernd: *See—*
Gunther, Uwe; Nagel, Karl; and Kalkhof, Bernd, 4,652,144, Cl. 374-178.000.
Kalkipsakis, Charalambos G., to Wrightcel Limited. Flexible container with internal filling chute. 4,672,688, 6-9-87, Cl. 383-58.000.
Kallai, Tamas: *See—*
Bakonyi, Maria; Lugosi, Gyorgy; Kallai, Tamas; Hima nee Toth, Maria; Montai, Tibor; and Sziladi, Maria, 4,675,413, Cl. 548-329.000.
Kallander, Clas F. R.: *See—*
Gronowitz, Jan S.; and Kallander, Clas F. R., 4,637,977, Cl. 435-15.000.
Kallander, Ernest L., Jr.: *See—*
Lee, Kenneth R.; and Kallander, Ernest L., Jr., 4,686,468, Cl. 324-158.00F.
allas, Kerry M.: *See—*
Beckey, Thomas J.; and Kallas, Kerry M., 4,702,305, Cl. 165-12.000.
Beckey, Thomas J.; Kallas, Kerry M.; and Uhrich, Daniel T., 4,702,413, Cl. 236-46.00R.
allay, Anna: *See—*
Ezer, Elemer; Harsanyi, Kalman; Petho, Hajnalka V.; Matuz, Judit; Szporny, Laszlo; Cholnoky, Eszter; Kuthi, Csaba; Trischler, Ferenc; Hegedus, Bela; Kapolnas, Marta; and Kallay, Anna, 4,713,388, Cl. 514-346.000.
allay nee Sohonyai, Anna: *See—*
Ezer, Elemer; Harsanyi, Kalman; Vikar nee Petho , Hajnalka; Matuz, Judit; Szporny, Laszlo ; Cholnoky, Eszter; Kuthi, Osaba; Trischler, Ferenc; Hegedus, Bela; Kapolnas nee Pap, Marta; and Kallay Sohonyai, Anna, 4,691,017, Cl. 546-298.000.
allay, Tamas: *See—*
Heja, Gergely; Korbonits, Dezso ; Palosi, Endre; Kiss, Pal; Gonczi, Csaba; Szvoboda nee Kanzel, Ida; Marvanyos, Ede; Kun, Judit; Szomor nee Wundele, Maria; Szabo, Gabor; Kallay, Tamas; and Ledniczky, Laszlo , 4,709,081, Cl. 560-100.000.
allberg, Bjorn. Device for guiding a tool along a curve. 4,694,579, 9-22-87, Cl. 33-23.080.
allenbach, Dieter H. F.: *See—*
Stoltz, Andries J.; and Kallenbach, Dieter H. F., 4,642,833, Cl. 15-1.700.
allenbach, Lyle R., to Phillips Petroleum Company. Polymer composition and process. 4,661,552, 4-28-87, Cl. 524-433.000.
allenbach, Lyle R.: *See—*
Fruthaler, Katherine J.; Hopkins, Thomas R.; Hitzman, Donald O.; Kubicek, Donald H.; and Kallenbach, Lyle R., 4,681,758, Cl. 424-78.000.
allenberger, Robert H.: *See—*
Funk, Gary L.; Terhune, Robert D.; Kania, Cheryl C.; and Kallenberger, Robert H., 4,642,766, Cl. 364-402.000.
allenius, Gunilla P.; Lundblad, Karl A.; Mollby, Nils R.; Svensson, Stefan B.; and Winberg, Jan, to Svenska Sockerfabriks AB. Compositions and methods useful for uropathogenic bacterial identification or diagnosis and inhibition of adherence of uropathogenic bacteria to cells having a structural element similar to that of the active principle of the invention. 4,657,849, 4-14-87, Cl. 4:5-7.000.
aller, Sigurd. Sealing gasket assembly. 4,712,801, 12-15-87, Cl. 277-71.000.
allestad, Daniel R.; and Satre, Kenneth L., to Sentry Technologies, Inc. Method and apparatus for aeration of stored grain. 4,688,332, 8-25-87, Cl. 34-34.000.
allestad, John, to Acme/Containment Systems Corporation. Self-inflating oil spill boom. 4,652,173, 3-24-87, Cl. 405-69.000.
allianos, Andrew G.; Sprinkel, Francis M., Jr.; and Decker, Paula, to Philip Morris Incorporated. Filter cigarette. 4,677,995, 7-7-87, Cl. 131-335.000.
allianos, Andrew G.; and Kounnas, Christopher N., to Philip Morris Incorporated. Filter cigarette. 4,696,314, 9-29-87, Cl. 131-336.000.
allin, Fredrik L. N.; and Evans, Edward R., to NCR Corporation. Thermal printing apparatus. 4,681,468, 7-21-87, Cl. 400-120.000.
allin, Fredrik L. N.: *See—*
Osmera, Miroslav S.; Bella, Anton; Kallin, Fredrik L. N.; and Evans, Edward R., 4,648,591, Cl. 271-305.000.
allinger, Franz; and Killion, Mark E., to Custodis-Cottrell, Inc. Method and apparatus for constructing towers. 4,696,135, 9-29-87, Cl. 52-121.000.
alliola, Lauri: *See—*
Hanhikoski, Hannu; Kalliola, Lauri; and Malkia, Hannu, 4,642,164, Cl. 162-207.000.

Kalliomaki, Kalevi J.; Kivela, Reijo A.; and Saarimaa, Raimo V., to Topwave Instruments Oy. Method and interferometer for the measurement of short distances. 4,647,205, 3-3-87, Cl. 356-357.000.
Kallmes, Otto J., to M/K Systems, Inc. Method and apparatus for the deflocculation of stock. 4,657,635, 4-14-87, Cl. 162-208.000.
Kallmes, Otto J., to M/K Systems, Inc. Hydrofoil blade. 4,687,549, 8-18-87, Cl. 162-352.000.
Kallos, Joseph. Permanent magnet direct current motor apparatus. 4,684,855, 8-4-87, Cl. 318-254.000.
Kallstrom, Leif A.: *See—*
Axelsson, Bengt I.; Brattsand, Ralph L.; Dahlback, Carl M. O.; Kallstrom, Leif A.; and Trofast, Jan W., 4,693,999, Cl. 514-174.000.
Kallstrom, Olof, to Ingvar Nilsson Mekaniska AB. Control gear for a dynamo connected to a hub. 4,636,670, 1-13-87, Cl. 310-67.00A.
Kalman Floor Company: *See—*
Kirven, Thomas, 4,689,892, Cl. 33-533.000.
Kalman, Miklos: *See—*
Antal nee Magyar, Zsuzsanna; Beller, Eva; Boross, Laszlo; Daroczi, Ivan; Kalman, Miklos; Suto, Imre; and Szajani, Bela, 4,670,390, Cl. 435-180.000.
Kalman, Peter, to Caterpillar Inc. Track support for supporting a flexible track. 4,683,632, 8-4-87, Cl. 29-281.100.
Kalman, Peter G. Process and apparatus for filtering polymers. 4,654,151, 3-31-87, Cl. 210-774.000.
Kalman, Tibor: *See—*
Kardos, Peter; Kalman, Tibor; Kerti, Jozsef; and Varnai, Istvan, 4,689,165, Cl. 252-75.000.
Kalmijn, Hilco T.: *See—*
Kemner, Rudolf; Kalmijn, Hilco T.; and Van Heelsbergen, Teunis R., 4,707,662, Cl. 324-318.000.
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Reno, Mark E.; Olson, Robert K.; and Kalnes, Tom N., 4,713,167, Cl. 208-59.000.
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Goldberg, Harris A.; Kalnin, Ilmar L.; Williams, Clyde C.; and Spain, Ian L., 4,642,664, Cl. 357-2.000.
Kalnins, John M.; McIntyre, James A.; Moyer, John R.; Phillips, Robert F.; and Snoble, Karel A. J., to Dow Chemical Company, The. Electrochemical methods for breaking high viscosity fluids. 4,701,247, 10-20-87, Cl. 204-131.000.
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Lipowski, Edwin M, 4,650,380, Cl. 409-310.000.

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Kuhn, Bernhard, 4,643,675, Cl. 433-126.000.
Lohn, Gerd, 4,642,051, Cl. 433-100.000.
Mossle, Walter; and Eibofner, Eugen, 4,634,376, Cl. 433-29.000.
Schlachter, Siegfried, 4,648,838, Cl. 433-29.000.
Schmidt, Helmut; Bodenmiller, Anton; and Straka, Alfred, 4,653,715, Cl. 248-281.100.
Strohmaier, Ernst, 4,661,060, Cl. 433-82.000.

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Hopper, Thomas P., 4,642,949, Cl. 52-80.000.

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Kamachi, Hajime: *See—*
Iinura, Seiji; Abe, Yoshio; Okumura, Jun; Naito, Takayuki; and Kamachi, Hajime, 4,708,955, Cl. 514-202.000.

Kamada, Akira: *See—*
Nishihata, Toshiaki; Kamada, Akira; and Wada, Hisayo, 4,699,776, Cl. 424-16.000.

Kamada, Daikichi, to Kamada Signal Appliances Co., Ltd. Infrared intrusion sensor with preliminary and primary alarms. 4,679,034, 7-7-87, Cl. 340-567.000.

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Kamada, Hiroshi; and Kita, Sumio, to Sharp Kabushiki Kaisha. Information input apparatus. 4,686,704, 8-11-87, Cl. 382-61.000.

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Kamagata, Kazuo; Yamada, Toshiaki; and Sawa, Natsuo, to Shikoku Chemicals Corporation. Novel 2-substituted-4,6-diamino-s-triazine/isocyanuric acid adduct, process for synthesis of said adduct and process for curing polyepoxy resin with said adduct. 4,658,009, 4-14-87, Cl. 528-109.000.

Kamai, Kenichiro, to Nippondenso Co., Ltd. Electronic fuel injection control with variable injection timing. 4,640,253, 2-3-87, Cl. 123-475.000.

Kamai, Kenichiro; and Kikuchi, Toshiaki, to Nippondenso Co., Ltd. Engine throttle valve position detecting system. 4,653,453, 3-31-87, Cl. 123-494.000.

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Kamakari, Ryutaro: *See—*
Umemoto, Sumio; Hattori, Eiichi; and Kamakari, Ryutaro, 4,639,384, Cl. 427-290.000.

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Melanson, Lionel J.; and Kamal, Nabil, 4,687,904, Cl. 219-271.000.

Kamamori, Hitoshi: *See—*
Iwasa, Koji; Kamamori, Hitoshi; Suginoya, Mitsuru; Sano, Yutaka; Terada, Yumiko; Kato, Naoki; Suzuki, Tameyuki; Yasukawa, Jun-ichi; Nomura, Toyokazu; Tohda, Kazuo; and Itoh, Shinji, 4,670,188, Cl. 252-513.000.
Suginoya, Mitsuru; Iwasa, Koji; Kamamori, Hitoshi; Sano, Yutaka; and Terada, Yumiko, 4,639,088, Cl. 350-339.00F.
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Kamamura Photographic Co., Ltd.: *See—*
Tomidokoro, Kanji, 4,634,249, Cl. 354-108.000.

Kaman Sciences Corporation: *See—*
Angelbeck, John J., 4,657,096, Cl. 177-163.000.

Kamanaka, Yoshihide: *See—*
Hashimoto, Takafumi; Kamanaka, Yoshihide; and Ashikaga, Tadashi, 4,691,158, Cl. 320-14.000.

Kamanaka, Yoshiyuki: *See—*
Kubo, Haruaki; and Kamanaka, Yoshiyuki, 4,708,538, Cl. 408-59.000.

Kamao, Mitsugu: *See—*
Nakaoji, Kazuhiko; Kamao, Mitsugu; Itoh, Hayami; Tatsumi, Shuhei; and Takao, Shoichi, 4,706,891, Cl. 241-16.000.

Kamarainen, Jorma, to Valmet Oy. Water vessels of the floating-deck type. 4,710,060, 12-1-87, Cl. 405-166.000.

Kamas Industri AB: *See—*
Edholm, Thomas; and Stahl, Ulf, 4,634,522, Cl. 209-154.000.
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Kamasaki, Keiji, to Kabushiki Kaisha Toshiba. Photocoupler device having reflecting surface enhance signal transmission. 4,712,017, 12-8-87, Cl. 250-551.000.

Kamata, Hiroshi; and Okubo, Wataru, to Alps Electric Co., Ltd. Receiver for satellite broadcasting service. 4,658,438, 4-14-87, Cl. 455-264.000.

Kamata, Junichi, to Mitsubishi Denki Kabushiki Kaisha. Interpolation method for numerical control machine. 4,704,688, 11-3-87, Cl. 364-474.000.

Kamata, Kazumasa; Ueda, Kazuo; and Kitai, Kiyokazu, to Mitsubishi Rayon Co., Ltd. Impact modifier and thermoplastic resin composition using the same. 4,696,973, 9-29-87, Cl. 525-71.000.

Kamata, Masahiro: *See—*
Kanou, Hideo; Kamata, Masahiro; and Yamanaka, Shigeru, 4,675,289, Cl. 435-18.000.

Kamata, Mitsuo; and Yamashita, Yutaka, to Nissan Shatai Company, Limited. Anti-vibration structure of a steering arrangement. 4,712,446, 12-15-87, Cl. 74-492.000.

Kamata, Seizo: *See—*
Ohkochi, Katsutoshi; Shinozaki, Mamoru; Ohshita, Toshiyuki; Kitano, Masayasu; and Kamata, Seizo, 4,706,753, Cl. 166-286.000.

Kamata, Shigeru; and Iizuka, Toshimi, to Canon Kabushiki Kaisha. Lens mounting mechanism. 4,687,297, 8-18-87, Cl. 350-252.000.

Kamata, Shigeru; and Iizuka, Toshimi, to Canon Kabushiki Kaisha. Lens moving device. 4,690,514, 9-1-87, Cl. 350-429.000.

Kamata, Shigeru: *See—*
Iizuka, Toshimi; and Kamata, Shigeru, 4,690,505, Cl. 350-252.000.
Iizuka, Toshimi; and Kamata, Shigeru, 4,707,083, Cl. 350-429.000.

Kamata, Takao, to NEC Corporation. Output detector of a charge coupled device. 4,698,656, 10-6-87, Cl. 357-24.000.

Kamata, Yasuji; and Kato, Kazuo, to Hitachi, Ltd. Variable-gain amplifying circuit. 4,646,029, 2-24-87, Cl. 330-283.000.

Kamata, Yasuji: *See—*
Kuwabara, Hiroshi; Ide, Jushi; Kamata, Yasuji; and Yamashita, Kenkichi, 4,638,308, Cl. 340-736.000.

Kamata, Yoshikiyo; and Fukuoka, Takashi, to Kioritz Corporation. Reed valve. 4,664,154, 5-12-87, Cl. 137-857.000.

Kamata, Yoshikiyo, to Kioritz Corporation. Vibration damper. 4,693,457, 9-15-87, Cl. 267-153.000.

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Uneno, Tsunehisa; Kamata, Yutaka; and Miyazaki, Sinji, 4,714,668, Cl. 430-316.000.

amata, Yuzuru: *See—*

Ishikawa, Toshio; Endo, Fumihiro; Yamagiwa, Tokio; and Kamata, Yuzuru, 4,667,061, Cl. 174-14.00R.

amatics Corporation: *See—*

Orkin, Stanley S.; and Carlson, Craig L., 4,704,918, Cl. 74-579.00R.

amatsu, Yasutoshi: *See—*

Ito, Yujiro; Kamatsu, Yasutoshi; and Otobe, Takashi, 4,692,721, Cl. 333-109.000.

amatsu Zenoah Co.: *See—*

Miyazaki, Hiroshi; Sawada, Toshiharu; and Nakajima, Kazuo, 4,634,457, Cl. 55-276.000.

amaya, Masashi, to PIAA Corporation. Reinforced roof carrier structure for a vehicular automobile. 4,705,198, 11-10-87, Cl. 224-329.000.

amaya, Masashi, to PIAA Corporation. Mounting device for fog lamp. 4,714,223, 12-22-87, Cl. 248-291.000.

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ambara, Toru: *See—*

Sakurai, Akiyoshi; Koga, Akihiro; and Kambara, Toru, 4,671,612, Cl. 350-96.270.

ambara, Yoshihiko; Asano, Shiro; Isozaki, Wataru; Kitado, Syoji; and Yamaguchi, Masao, to Mitsui Toatsu Chemicals, Incorporated. Preparation process of acrylamide crystals. 4,670,590, 6-2-87, Cl. 564-206.000.

ambayashi, Hiroaki; and Okada, Yasuyuki, to Hitachi, Ltd. System for on-line and off-line display. 4,683,552, 7-28-87, Cl. 364-900.000.

ambayashi, Kiyoshi: *See—*

Ito, Michio; Kambayashi, Kiyoshi; and Takezawa, Junichi, 4,677,015, Cl. 428-201.000.

ambe, Hirofumi: *See—*

Onda, Takanori; and Kambe, Hirofumi, 4,708,231, Cl. 192-103.00F.

ambe, Hirokazu; Kuroda, Kazuhiro; and Hayama, Masashi, to TDK Corporation. Magnetic recording medium. 4,689,263, 8-25-87, Cl. 428-212.000.

ambe, Mitsuru; and Sasaki, Shuichi, to Doryokuro Kakunenryo Kaihatsu Jigyodan. Liquid metal cooled fast breeder reactor. 4,687,624, 8-18-87, Cl. 376-264.000.

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Kanda, Atsushi; Takagi, Shunichi; and Kambe, Rokuro, 4,657,825, Cl. 428-627.000.

Kato, Norio; Nozaki, Shunkichi; Kimura, Yukihiro; and Kambe, Rokuro, 4,690,872, Cl. 428-446.000.

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Ozeki, Hirofumi; and Kambe, Takahide, 4,657,496, Cl. 425-130.000.

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ambic, Raymond V., to R. R. Brink Locking Systems, Inc. Security door knob and escutcheon. 4,640,112, 2-3-87, Cl. 70-452.000.

ambic, Raymond V., to R. R. Brink Locking Systems, Inc. Trigger and latch bolt assembly. 4,679,416, 7-14-87, Cl. 70-143.000.

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Ching, Hui P., 4,708,379, Cl. 292-337.000.

ameda, Hideki: *See—*

Nakamura, Koichi; Ishibashi, Masashi; Kameda, Hideki; and Makiyo, Minoru, 4,699,743, Cl. 264-104.000.

ameda, Hiroshi, to Tokiwa Kogyo Co., Ltd. Film packaging apparatus. 4,715,166, 12-29-87, Cl. 53-550.000.

ameda, Naomi; and Uematsu, Kenji, to Ricoh Company, Ltd. Thermosensitive recording material. 4,663,642, 5-5-87, Cl. 346-217.000.

ameda, Toshinori, to National Can Corporation. Method for detecting sterilization. 4,696,580, 9-29-87, Cl. 374-162.000.

ameda, Yukihiko: *See—*

Horii, Satoshi; Kameda, Yukihiko; and Fukase, Hiroshi, 4,701,559, Cl. 564-363.000.

amehara, Nobuo: *See—*

Imanaka, Yoshihiko; Ogawa, Hiromi; Tsukada, Mineharu; Udagawa, Etsuro; Kurihara, Kazuaki; Yokoyama, Hiromitsu; and Kamehara, Nobuo, 4,679,320, Cl. 29-848.000.

Kurihara, Kazuaki; Kamehara, Nobuo; Yokoyama, Hiromitsu; Ogawa, Hiromi; Yokouchi, Kishio; Imanaka, Yoshihiko; and Niwa, Koichi, 4,642,148, Cl. 156-89.000.

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Hashimoto, Sadakatsu; and Kamei, Fumio, 4,709,349, Cl. 364-900.000.

Kamei, Kiyoshi: *See—*

Sugimoto, Koichi; Kamei, Kiyoshi; Murakami, Yotaro; Sugimoto, Takashi; Nishimura, Takashi; and Takashima, Takahiro, 4,634,477, Cl. 148-402.000.

Kamei Machine Co., Ltd.: *See—*

Kamei, Masato, 4,641,542, Cl. 74-23.000.

Kamei, Masato, to Kamei Machine Co., Ltd. Swing mechanism for winder nozzles. 4,641,542, 2-10-87, Cl. 74-23.000.

Kamei, Noboru; Ikeda, Kinjiro; Aoyama, Keishi; and Hamano, Seitaro, to Daicel Chemical Industries, Ltd. Process for production sorbic acid. 4,639,294, 1-27-87, Cl. 203-88.000.

Kamei, Sakito: *See—*

Murata, Seiichiro; Tateishi, Masaru; Yoshioka, Toshio; Kamei, Sakito; Nakazono, Hiroshi; and Yamawaki, Yoshiro, 4,660,491, Cl. 114-65.00R.

Kamei, Shigeki: *See—*

Higuchi, Toshiro; Kamei, Shigeki; and Kawaguchi, Kojiro, 4,644,870, Cl. 104-292.000.

Kamei, Takao; Ono, Fuminobu; Komai, Keiichi; Wakabayashi, Takeshi; Ogawa, Takayuki; Ito, Hideaki; and Shirakawa, Kiyoshi, to Kawasaki Jukogyo Kabushiki Kaisha; and Electric Power Development Co., Ltd. Process for dewatering high moisture, porous organic solid. 4,702,745, 10-27-87, Cl. 44-10.00D.

Kamejima, Kohji; and Ogawa, Yuriko, to Hitachi, Ltd. Guidance system. 4,652,803, 3-24-87, Cl. 318-587.000.

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Hosoda, Yuji; Honma, Kazuo; Fujie, Masakatsu; Iwamoto, Taro; Kamejima, Kohji; and Nakano, Yoshiyuki, 4,709,342, Cl. 364-558.000.

Kamel, Ahmed A.; Graul, Donald W.; Chan, Fred N. T.; and Gamble, Donald W., to Ford Aerospace & Communications Corporation. Spacecraft camera image registration. 4,688,091, 8-18-87, Cl. 358-109.000.

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Kamel, Mohamed S.: *See—*

Mazumder, Ali T.; and Kamel, Mohamed S., 4,641,018, Cl. 235-462.000.

Kamemaru, Kenichi: *See—*

Amemiya, Kunio; Tanaka, Mikihiko; Kamemaru, Kenichi; and Nakagawa, Kiyoshi, 4,636,424, Cl. 428-198.000.

Kamemoto, Katsuaki; and Morimoto, Hideyuki, to Nippon Air Brake Co., Ltd. Master cylinder reservoir. 4,658,585, 4-21-87, Cl. 60-592.000.

Kamemoto, Mituo: *See—*

Yoshida, Mamoru; and Kamemoto, Mituo, 4,634,275, Cl. 356-121.000.

Kamen, Christopher R.; and Bollinger, James E. Padded car cover. 4,699,192, 10-13-87, Cl. 150-52.00K.

Kamen, Dean L., to Baxter Travenol Laboratories, Inc. Medical infusion controller and user interface. 4,634,426, 1-6-87, Cl. 604-65.000.

Kamen, Dean L., to Baxter Travenol Laboratories, Inc. Modular clamp system with externally threaded adjuster. 4,645,175, 2-24-87, Cl. 251-9.000.

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  - Flyborg, Nils O.; and Bjorheden, Orvar, 4,694,645, Cl. 60-221.000.
  - Haglund, Kjell, 4,696,650, Cl. 440-49.000.
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- Kameyama, Hideo: *See—*
  - Kabe, Toshiaki; and Kameyama, Hideo, 4,701,199, Cl. 62-4.000.
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  - Oba, Hanji; Hyodo, Koji; Honda, Michiyasu; and Kameyama, Kazuhide, 4,658,882, Cl. 164-417.000.
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  - Anno, Nobuo; Iwai, Itsuo; and Kamezaki, Takashi, 4,674,996, Cl. 474-10.000.
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  - Nagasaka, Hiroyasu; Kamidaira, Kunio; Ino, Hiroshi; and Utsuno, Mitsuo, 4,636,093, Cl. 374-186.000.
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- Kamidoi, Hiroshi: *See—*
  - Sato, Mitsuo; and Kamidoi, Hiroshi, 4,672,185, Cl. 235-462.000.
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  - Ejiri, Yuuki; Ito, Tomoo; Tsuruta, Hisato; and Kamifuji, Hiroshi, 4,639,624, Cl. 310-154.000.
- Kamigaito, Masayuki: *See—*
  - Yokota, Yuzo; Noma, Kanji; Kawase, Kiyotaka; Kitamura, Hironori; and Kamigaito, Masayuki, 4,680,322, Cl. 523-416.000.
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- Kamigaki, Masaharu: *See—*
  - Kawamura, Masataka; and Kamigaki, Masaharu, 4,658,397, Cl. 370-58.000.
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  - Sunami, Hideo; Masuda, Hiroo; Kamigaki, Yoshiaki; Shimohigashi, Katsuhiro; and Takeda, Eiji, 4,656,492, Cl. 357-23.300.
- Kamiguchi, Taiji: *See—*
  - Yamada, Mutsuo; Nishimura, Yasuyuki; Arikawa, Yoshijiro; Kuwahara, Takanori; Kamiguchi, Taiji; and Tanimoto, Hirotoshi, 4,691,053, Cl. 562-531.000.
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  - Okamura, Kazuo; Koyama, Satoshi; Maeda, Tadayuki; and Kamihigoshi, Tutomu, 4,684,591, Cl. 429-218.000.
- Kamihisa, Yasushi: *See—*
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  - Hoshino, Teruaki; and Kamiji, Koichi, 4,674,514, Cl. 439-586.000.
  - Kumasaka, Toru; Kamiji, Koichi; and Ohya, Toshikazu, 4,673,912, Cl. 340-52.00R.
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  - Higuchi, Matsuo; Miyake, Masaya; Takeuchi, Hisao; and Kamijo, Eiji, 4,659,508, Cl. 252-516.000.
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  - Yamakawa, Akira; Takeda, Yoshinobu; and Kamijo, Eiji, 4,660,114, Cl. 360-122.000.
- Kamijo, Ken; Shimizu, Kenzo; and Ueno, Hiroshi, to Nissan Motor Company, Ltd. Vehicular seat. 4,655,503, 4-7-87, Cl. 297-238.000.
- Kamijo, Takao: *See—*
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- Kamijo, Tetsuhide: *See—*
  - Iizuka, Kinji; Kamijo, Tetsuhide; Kubota, Tetsuhiro; Akahane, Kenji; Umeyama, Hideaki; and Kiso, Yoshiaki, 4,656,269, Cl. 544-139.000.
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- Kamijo, Yoshimi; Kato, Yoshinori; and Ikarashi, Masami, to Alps Electric Co., Ltd. Method of manufacturing film-covered terminal. 4,653,186, 3-31-87, Cl. 29-838.000.
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  - Kato, Yoshinori; Igarashi, Masami; and Kamijo, Yoshimi, 4,661,373, Cl. 427-66.000.
- Kamijoh, Yoshiaki: *See—*
  - Satoh, Hidetaka; Kurosawa, Hideyuki; Kamijoh, Yoshiaki; and Jyumonji, Hiromichi, 4,695,916, Cl. 361-56.000.
- Kamijyo, Yoshimi, to Alps Electric Co., Ltd. Tellurium oxide whiskers and a method of producing the same. 4,634,630, 1-6-87, Cl. 428-399.000.
- Kamijyo, Yoshimi, to Alps Electric Co., Ltd. Molybdenum oxide whiskers and a method of producing the same. 4,690,813, 9-1-87, Cl. 423-606.000.
- Kamijyukkoku, Nario: *See—*
  - Koebisu, Mamoru; Nishioka, Takeshi; Kamijyukkoku, Nario; and Kawano, Hirosi, 4,663,362, Cl. 521-134.000.
  - Koebisu, Mamoru; Nishioka, Takeshi; Kamijyukkoku, Nario; and Kawano, Hirosi, 4,701,472, Cl. 521-50.500.
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- Kamikawara, Toshio, to NEC Corporation. Electronic attenuation value control circuit in which switching noise is suppressed. 4,683,386, 7-28-87, Cl. 307-549.000.

- amiko, Mitsuo, to Alps Electric Co., Ltd. Support construction for optical systems. 4,653,856, 3-31-87, Cl. 350-255.000.
- amikubo, Fumio: *See*—
  - Shimogori, Kazutoshi; Satoh, Hiroshi, and Kamikubo, Fumio, 4,634,478, Cl. 148-421.000.
- amikura, Rinzo: *See*—
  - Mori, Tohru; Hongo, Takayasu; and Kamikura, Rinzo, 4,639,751, Cl. 346-227.000.
- amil, Zvi, to Aerotel Ltd. Telephone system. 4,706,275, 11-10-87, Cl. 379-144.000.
- amimae, Hajime: *See*—
  - Yamamoto, Toshiaki; Kako, Hiroyoshi; Shibata, Takuo; Izuo, Takashi; Kamimae, Hajime; and Takegawa, Hiroaki, 4,696,379, Cl. 188-299.000.
- amimaru, Shinji, to Fuji Jukogyo Kabushiki Kaisha. Reciprocating internal combustion engine. 4,664,077, 5-12-87, Cl. 123-54.00R.
- amimori, Tadatoshi; Nagai, Junichi; and Mizuhashi, Mamoru, to Asahi Glass Company, Ltd. Electro-optic device. 4,671,619, 6-9-87, Cl. 350-357.000.
- amimura, Hiroto: *See*—
  - Satoh, Eiji; Iwakura, Mararu; Kamimura, Hiroto; Nishi, Yasunori; and Kojima, Masamitsu, 4,699,530, Cl. 384-609.000.
- amimura, Tetsuro: *See*—
  - Kate, Itsuo, Kamimura, Tetsuro; Takemasa, Kaoru; and Onishi, Junichi, 4,672,477, Cl. 360-96.200.
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- amimura, Toshiaki: *See*—
  - Umio, Suminori; Kamimura, Toshiaki; Kamishita, Takuzo; and Mine, Yasuhiro, 4,636,520, Cl. 514-399.000.
- amimura, Touichi: *See*—
  - Miyazawa, Kenji; and Kamimura, Touichi, 4,663,696, Cl. 362-80.000.
- amin, Paul N. Aviation fuel tester. 4,700,580, 10-20-87, Cl. 73-864.510.
- aminaga, Hiromitsu, to Yoshida Kogyo, K. K. Apparatus for connecting curtain wall units. 4,712,345, 12-15-87, Cl. 52-235.000.
- aminaga, Kouzou, to Sony Corporation. Reference signal generator. 4,677,459, 6-30-87, Cl. 358-19.000.
- aminaga, Seiji: *See*—
  - Shigemura, Yutaka; Kimura, Hiroshi; Hisajima, Masahiko; Yada, Isao; Satonaka, Shinobu; and Kaminaga, Seiji, 4,642,448, Cl. 219-216.000.
  - Shigemura, Yutaka; Kimura, Hiroshi; Hisajima, Masahiko; Yada, Isao; Satonaka, Shinobu; and Kaminaga, Seiji, 4,650,347, Cl. 374-141.000.
  - Shigemura, Yutaka; Kimura, Hiroshi; Hisajima, Masahiko; Yada, Isao; Satonaka, Shinobu; and Kaminaga, Seiji, 4,668,075, Cl. 355-14.0SH.
- aminaga, Tetsuo; Shigeta, Masatomo; and Fukuda, Hiroyuki, to Kureha Kagaku Kogyo Kabushiki Kaisha. Oxygen-cathode for use in electrolysis of alkali chloride and process for preparing the same. 4,675,094, 6-23-87, Cl. 204-294.000.
- aminaga, Toshiyuki: *See*—
  - Omura, Hideo; Kaminaga, Toshiyuki; and Takei, Hirofumi, 4,645,031, Cl. 181-232.000.
- aminaka, Nobuyuki; and Yoshida, Yasuo, to Matsushita Electric Industrial Co., Ltd. Magnetic head comprising a core formed of small and large thin film patterns. 4,716,484, 12-29-87, Cl. 360-125.000.
- aminaka, Nobuyuki: *See*—
  - Kanai, Kenji; Kaminaka, Nobuyuki; Nomura, Noboru; and Omata, Yuuji, 4,672,496, Cl. 360-126.000.
  - Youda, Hiroshi; Kaminaka, Nobuyuki; and Mitani, Satoru, 4,663,683, Cl. 360-113.000.
- amino, Yoshikazu: *See*—
  - Funahashi, Yoshiko; Kamino, Yoshikazu; Matsumura, Yasuharu; and Harimaya, Senichi, 4,643,978, Cl. 436-78.000.
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- amins, Harold W.: *See*—
  - Smith, David S.; and Kamins, Harold W., 4,685,842, Cl. 406-106.000.
- aminski, Christopher A.; and Rasmussen, Paul C., to General Electric Company. Rotor slot insulation system for electrical machine and article incorporating same. 4,667,125, 5-19-87, Cl. 310-214.000.
- aminski, Christopher A., to General Electric Company. Ventilated end turns for rotor windings of a dynamoelectric machine. 4,709,177, 11-24-87, Cl. 310-59.000.
- aminski, Daniel S.: *See*—
  - Bratton, Ronald E.; Gigandet, Richard W.; Henke, Mitchell C.; Kaminski, Daniel S.; and Wibel, Michelle A., 4,701,340, Cl. 426-511.000.
- aminski, Donald J.; Frank, Ernest A.; and Grinsteiner, Craig S. Refuse derived fuel delivery system and distribution conveyors. 4,686,913, 8-18-87, Cl. 110-110.000.
- aminski, Ernesto: *See*—
  - Astigiano, Florio; and Kaminski, Ernesto, 4,657,452, Cl. 409-190.000.
- Kaminski, James J.: *See*—
  - Solomon, Daniel M.; Kaminski, James J.; and Conn, David J., 4,666,914, Cl. 514-267.000.
- Kaminski, Les K.; and Sheffield, Clyde, to Chrysler Motors Corporation. Vehicle reading/courtesy lamp. 4,659,889, 4-21-87, Cl. 200-330.000.
- Kaminski, Reiner, to Erweka Apparatebau GmbH. Transpot unit for tablets. 4,660,713, 4-28-87, Cl. 198-443.000.
- Kaminski, Ronald S.: *See*—
  - Nowicki, Casimir W.; Lucius, Thomas A.; Kaminski, Ronald S.; and Snyder, Robert P., 4,680,000, Cl. 425-126.00R.
- Kaminsky, Didier, to Thomson-CSF. Quadrupole for matching of a reactance, independently of the operating frequency. 4,635,005, 1-6-87, Cl. 333-32.000.
- Kaminsky, Didier: *See*—
  - Kantorowicz, Gerard; and Kaminsky, Didier, 4,670,674, Cl. 307-529.000.
- Kamio, Hideo: *See*—
  - Itoh, Hiroshi; Nitta, Atsuhiko; Tanaka, Tomio; and Kamio, Hideo, 4,649,219, Cl. 564-207.000.
  - Itoh, Hiroshi; Nitta, Atsuhiko; and Kamio, Hideo, 4,654,177, Cl. 260-512.00R.
  - Itoh, Hiroshi; Nitta, Atsuhiko; and Kamio, Hideo, 4,659,773, Cl. 524-817.000.
  - Itoh, Hiroshi; Nakagawa, Toshimi; Nitta, Atsuhiko; Tanaka, Tomio; Kamio, Hideo; Enoshita, Ryosuke; Uejima, Tamotu; Ouchi, Takahiro; Abe, Kazuki; and Kobayashi, Sadao, 4,683,258, Cl. 524-434.000.
  - Itoh, Hiroshi; Nitta, Atsuhiko; and Kamio, Hideo, 4,701,283, Cl. 260-507.00R.
- Kamio, Kunimasa: *See*—
  - Saito, Yasuhisa; Takagishi, Hisao; Watanabe, Katsuya; Okuno, Kohichi; Kenmei, Junichi; and Kamio, Kunimasa, 4,705,833, Cl. 525-504.000.
- Kamio, Masaru; Iijima, Shigeharu; Yoshihara, Satoshi; and Ogura, Yasutsugu, to Canon Kabushiki Kaisha. Method for bonding a color separation filter. 4,661,191, 4-28-87, Cl. 156-275.500.
- Kamio, Masaru: *See*—
  - Fukaya, Masaki; Komatsu, Toshiyuki; Shoji, Tatsumi; Kamio, Masaru; and Sekimura, Nobuyuki, 4,700,080, Cl. 250-578.000.
  - Sekimura, Nobuyuki; Kamio, Masaru; Takao, Hideaki; Motoi, Taiko; and Murata, Tatsuo, 4,712,874, Cl. 350-339.00F.
  - Yokono, Koujiro; Kamio, Masaru; and Ohkubo, Yukitoshi, 4,714,636, Cl. 428-1.000.
- Kamio, Morinori; Tsuji, Masahiro; and Miyashita, Hirohito, to Nippon Mining Co., Ltd. High-strength, high-conductivity copper alloy. 4,666,667, 5-19-87, Cl. 420-471.000.
- Kamio, Takashi: *See*—
  - Iijima, Toshifumi; Yamada, Yoshitaka; Kumashiro, Kenji; Kamio, Takashi; and Shimura, Shinya, 4,701,404, Cl. 430-559.000.
- Kamio, Takenori, to Kabushi Kaisha Daikin Seisakusho. Pneumatic clutch apparatus. 4,646,894, 3-3-87, Cl. 192-85.0AA.
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  - Majima, Hidekazu; and Kamio, Takenori, 4,664,240, Cl. 192-85.0CA.
- Kamio, Toru: *See*—
  - Yasuda, Tadao; Kamio, Toru; and Sugimoto, Yoshiaki, 4,643,703, Cl. 474-242.000.
- Kamioka, Hajime: *See*—
  - Sakurai, Junji; and Kamioka, Hajime, 4,642,883, Cl. 29-576.00B.
  - Shirai, Kazunari; Kamioka, Hajime; and Koike, Shigeyoshi, 4,672,740, Cl. 29-590.000.
- Kamioka, Kuniya: *See*—
  - Takahashi, Akira; and Kamioka, Kuniya, 4,676,146, Cl. 98-40.300.
- Kamionka, Harvey E.: *See*—
  - Beglin, Thomas W.; Pence, Jane R.; Kamionka, Harvey E.; and Pence, Jerry W., 4,638,424, Cl. 364-200.000.
- Kamis, Anthony G. Flexible tubing cable system. 4,665,281, 5-12-87, Cl. 174-102.00R.
- Kamishima, Hideo, to Jyuji, Takeo. Blood component restoration apparatus. 4,655,741, 4-7-87, Cl. 604-6.000.
- Kamishiro, Toshiro: *See*—
  - Masaki, Mituo; Shinozaki, Haruhiko; Satoh, Masaru; Moritoh, Naoya; Hashimoto, Koichi; and Kamishiro, Toshiro, 4,644,063, Cl. 546-209.000.
- Kamishita, Isamu: *See*—
  - Asano, Katsuhiko; Kurita, Isao; and Kamishita, Isamu, 4,654,961, Cl. 29-599.000.
- Kamishita, Takuzo, to Toko Yakuhin Industry Co., Ltd. Gel preparations for topical application of diclofenac sodium. 4,670,254, 6-2-87, Cl. 424-81.000.
- Kamishita, Takuzo: *See*—
  - Umio, Suminori; Kamimura, Toshiaki; Kamishita, Takuzo; and Mine, Yasuhiro, 4,636,520, Cl. 514-399.000.
- Kamitani, Hiroshi: *See*—
  - Sekine, Fumimaro; Kurosaki, Tomihiro; Ukena, Toshinao; and Kamitani, Hiroshi, 4,713,487, Cl. 562-587.000.
- Kamitani, Masaaki: *See*—
  - Combs, Daniel J.; Martin, Sylvia; Tremmel, Robert A.; Snell, Kenneth D.; Kamitani, Masaaki; Kimizuka, Ryoichi; and Koga, Takaaki, 4,699,696, Cl. 204-44.200.
- Kamitani, Yutaka; and Nakanishi, Yuji, to Sanyo Electric Co., Ltd. Apparatus for scanning an original. 4,666,286, 5-19-87, Cl. 355-8.000.
- Kamitani, Yutaka: *See*—
  - Fujiwara, Masakatsu; Kamitani, Yutaka; and Yamamura, Touru, 4,675,266, Cl. 430-102.000.

Miyai, Kiyoshi; Shuhei, Uotani; Tsunemine, Toyohiko; Kamitani, Yutaka; and Nakanishi, Yuji, 4,666,281, Cl. 355-3.0SH.
Kamiunten, Shoji: *See—*
Nishimoto, Ikuo; Kamiunten, Shoji; and Kuroiwa, Takaaki, 4,677,416, Cl. 338-35.000.
Kamiwada, Minoru; Saruwatari, Kazuyuki; Shimada, Kazuaki; and Higashizima, Harumi, to Matsushita Electric Industrial Co., Ltd. Water purifier apparatus. 4,680,116, 7-14-87, Cl. 210-282.000.
Kamiya, Akihiro: *See—*
Mori, Yasuki; and Kamiya, Akihiro, 4,634,927, Cl. 313-486.000.
Kamiya, Atsushi: *See—*
Shibuki, Osamu; Matsuyama, Noboru; Umemura, Yoichi; Kamiya, Atsushi; Fujii, Takaya; Seki, Masayuki; and Ohta, Norio, 4,664,352, Cl. 248-562.000.
Kamiya, Fumio; Nodera, Hisatoshi; Ueda, Kenji; Imazu, Keinosuke; and Tomioka, Hideharu, to Omron Tateisi Electronics Co. Proximity switch. 4,644,298, 2-17-87, Cl. 331-65.000.
Kamiya, Hiroshi; Iguchi, Takeshi; and Fukumi, Shigenobu, to Nippondenso Co., Ltd. Method for brazing a magnesium-containing aluminum alloy. 4,705,206, 11-10-87, Cl. 228-183.000.
Kamiya, Joji: *See—*
Katakami, Tsutomu; Fukazawa, Nobuyuki; Iizuka, Hajime; Nishina, Takashi; Kamiya, Joji; Tanaka, Yasuhito; and Nakano, Takuo, 4,639,451, Cl. 514-247.000.
Kamiya, Kazuhiro: *See—*
Watanabe, Isamu; Kamiya, Kazuhiro; Torii, Takahiro; and Mori, Toshihito, 4,647,656, Cl. 536-16.100.
Kamiya, Kiyoshi, to Citizen Watch Co., Ltd. Synchronous separation circuit. 4,635,115, 1-6-87, Cl. 358-153.000.
Kamiya, Kiyoshi; Shiraishi, Atsushi; and Suzuki, Fuminori, to Citizen Watch Co., Ltd. Method of driving liquid crystal display panel of TV receiver. 4,694,348, 9-15-87, Cl. 358-236.000.
Kamiya, Kiyoshi, to Citizen Watch Co., Ltd. Synchronization signal generating circuit. 4,701,796, 10-20-87, Cl. 358-154.000.
Kamiya, Makoto: *See—*
Hosomizu, Hiroshi; Tsuji, Kenji; and Kamiya, Makoto, 4,712,902, Cl. 354-416.000.
Kamiya, Masaaki: *See—*
Namiki, Masayuki; Kamiya, Masaaki; Kojima, Yoshikazu; and Tanaka, Kojiro, 4,639,755, Cl. 357-28.000.
Kamiya, Masahiko: *See—*
Takagi, Kozi; Nomura, Ken; Hattori, Yoshiyuki; and Kamiya, Masahiko, 4,708,406, Cl. 303-115.000.
Kamiya, Masakazu: *See—*
Kobayashi, Kiyomori; Kamiya, Masakazu; and Kato, Satoshi, 4,663,983, Cl. 74-574.000.
Kamiya, Osamu; Fujiyama, Yasutomo; Ogawa, Kyosuke; and Kurokawa, Takashi, to Canon Kabushiki Kaisha. Vacuum processing apparatus. 4,637,342, 1-20-87, Cl. 118-719.000.
Kamiya, Osamu; Nishida, Keijiro; Fujiyama, Yasutomo; and Ogawa, Kyosuke, to Canon Kabushiki Kaisha. Apparatus and process for mass production of film by vacuum deposition. 4,666,734, 5-19-87, Cl. 427-39.000.
Kamiya, Osamu, to Brother Kogyo Kabushiki Kaisha. Sewing machine with retractable handwheel. 4,700,646, 10-20-87, Cl. 112-279.000.
Kamiya, Shigemitsu: *See—*
Yamazaki, Masahiro; Iizuka, Shigeru; Kamiya, Shigemitsu; Oka, Yoshiro; and Fujino, Katsuhiro, 4,676,404, Cl. 222-56.000.
Kamiya, Shigezo, to Kabushiki Kaisha Toshiba. Integrated circuit device incorporating a data processing unit and a ROM storing applications program therein. 4,672,534, 6-9-87, Cl. 364-200.000.
Kamiya, Shingo: *See—*
Tomisawa, Norio; Kamiya, Shingo; and Aoshima, Shinji, 4,694,441, Cl. 369-32.000.
Kamiya, Sigeru; Kojima, Akikazu; and Sakakibara, Yasuyuki, to Nippon Soken, Inc. Engine control with function to eliminate minute particles in exhaust gas. 4,685,290, 8-11-87, Cl. 60-274.000.
Kamiya, Sigeru; Nozawa, Masaei; Ishida, Toshinobu; and Sasaya, Hideaki, to Nippon Soken, Inc. Device for measuring contamination of lubricant. 4,699,509, 10-13-87, Cl. 356-70.000.
Kamiya, Sigeru: *See—*
Ito, Seitoku; Iwashita, Shigeo; Kamiya, Sigeru; Noguchi, Hiroshi; and Mori, Nobuhisa, 4,633,706, Cl. 73-28.000.
Kamiya, Takashi: *See—*
Saito, Isao; Nomoto, Seichiro; Kamiya, Takashi; Yamauchi, Hiroshi; Sugiyama, Isao; Machida, Yoshimasa; and Negi, Shigeto, 4,698,336, Cl. 514-202.000.
Kamiya, Takeshi; Matsuura, Kazuo; Miyoshi, Mituji; Misumi, Kozo; Kadomatsu, Seiji; and Nose, Shinji, to Nippon Petrochemicals Company, Limited; and Osaka Soda Co., Ltd. Chlorinated ethylene copolymer resins. 4,652,616, 3-24-87, Cl. 525-331.700.
Kamiya, Tetsuro: *See—*
Hara, Kenji; Takahashi, Hiromichi; Kamiya, Tetsuro; and Tsujii, Kaoru, 4,686,211, Cl. 514-148.000.
Kamiya, Tokimasa: *See—*
Sugiyama, Susumu; Nakamura, Yoshio; Ohno, Harunobu; and Kamiya, Tokimasa, 4,672,417, Cl. 357-67.000.
Kamiya, Toru: *See—*
Ohba, Masahiro; Sugimoto, Hiroshi; Kamiya, Toru; Yamazaki, Toru; Tanabe, Hidemichi; Hirano, Satoshi; Namba, Hideaki; Matsui, Katsumasa; and Miura, Hisahiro, 4,668,873, Cl. 307-9.000.
Kamiya, Yoshinori, to Nissan Motor Co., Ltd. Vehicle body having rear parcel shelf. 4,634,174, 1-6-87, Cl. 296-195.000.
Kamiyama, Akira; Yamada, Masahide; Kitada, Katsuyoshi; Otuka, Masayoshi; and Kanematsu, Etsuro, to Mitsuba Electric Manufacturing Co. Ltd. Wiper home position stop device. 4,700,026, 10-13-87, Cl. 200-19.00R.
Kamiyama, Kazushi: *See—*
Nakano, Yuji; Kamiyama, Kazushi; and Kobayashi, Tes
4,703,020, Cl. 501-86.000.
Kamiyama, Kiichi; and Kato, Yasuo, to Tokyo Kogaku Kikai Kabushiki Kaisha. Ocular position measuring apparatus. 4,712,89
12-15-87, Cl. 351-243.000.
Kamiyama, Koozi: *See—*
Ogawa, Hiroshi; Mizuno, Chiaki; Tamai, Yasuo; and Kamiyama, Koozi, 4,680,225, Cl. 428-323.000.
Kamiyama, Kouzi, to Fuji Photo Film Co., Ltd. Process for the preparation of ferrite magnetic particulate for magnetic recording. 4,690,768, 9-1-87, Cl. 252-62.580.
Kamiyama, Sakae: *See—*
Iwabuchi, Takeshi; Kawahara, Masao; Kamiyama, Sakae; and Sa
Terumi, 4,657,996, Cl. 526-127.000.
Morinaga, Hiroshi; Kamiyama, Sakae; and Sato, Yuzo, 4,643,96
Cl. 502-104.000.
Kamiyama, Shinji: *See—*
Mutoh, Masayuki; and Kamiyama, Shinji, 4,673,951, Cl. 346-75.00
Kamiyama, Sumio: *See—*
Yasuoka, Junichi; Kamiyama, Sumio; Ashida, Kiyomi; and Hata, Ryozo, 4,678,511, Cl. 75-251.000.
Kamiyama, Yoshiyasu: *See—*
Nishida, Yuji; Kamiyama, Yoshiyasu; and Okuno, Koich
4,640,773, Cl. 210-321.100.
Kamiyo, Sumio; and Yoshihiro, Mitsuto, to Mitsubishi Rayon Co., Ltd. Electromagnetic interference-shielding, flame-retardant ABS resin composition. 4,636,536, 1-13-87, Cl. 523-137.000.
Kamizawa, Koh: *See—*
Murakami, Tokumichi; Itoh, Atsushi; Asai, Kohtaro; Kamizawa, Koh; and Nishida, Masami, 4,710,812, Cl. 358-136.000.
Kamizyo, Eiji: *See—*
Miyazawa, Hideyuki; and Kamizyo, Eiji, 4,646,155, Cl. 358-213.000.
Kamm, Bodo: *See—*
Hahn, Alfred; Kamm, Bodo; Weiss, Karl; and Dummert, Johannes, 4,715,057, Cl. 378-197.000.
Kamm, Eugen: *See—*
Schoettle, Klaus; Schmidts, Kurt; Kamm, Eugen; and Berger, Heinz, 4,679,110, Cl. 360-132.000.
Schoettle, Klaus; Bohk, Artur; Kamm, Eugen; Berger, Heinz; and Gaiser, Dieter, 4,687,157, Cl. 242-199.000.
Kamm, Willibald F. G.; and Voss, Siegfried. Process and device for determining the internal condition of trees or wooden components. 4,671,105, 6-9-87, Cl. 73-81.000.
Kamman, Daniel T., to Polaroid Corporation. Continuously cleaned rotary coating mask. 4,681,780, 7-21-87, Cl. 427-282.000.
Kamman, Gordon W., to Quaker Oats Company, The. Long-running motor-driven baby swing. 4,697,845, 10-6-87, Cl. 297-118.000.
Kamman, Joseph T., to Cincinnati Milacron Inc. Compound damper system. 4,664,536, 5-12-87, Cl. 384-99.000.
Kammann, Karl P., Jr.; and Troxel, Kathleen A., to Ferro Corporation. Aqueous corrosion inhibitor compositions of a half-amide and a dicarboxylic acid amine salt. 4,683,081, 7-28-87, Cl. 252-392.000.
Kammel, Hans: *See—*
Kaempfe, Joerg; Meurer, Wolfgang; Kammel, Hans; and Nedwig, Otto, 4,651,644, Cl. 101-423.000.
Kammel, Roland: *See—*
Kagechika, Hiroshi; Tomouchi, Akira; and Kammel, Roland, 4,673,471, Cl. 204-44.500.
Kammeraad, James A., to K-Line Industries, Inc. Collapsible plaque board. 4,703,580, 11-3-87, Cl. 43-43.130.
Kammerer, Friedrich-Johannes; and Schleyerbach, Rudolf, to Hoechst Aktiengesellschaft. Isoxazole derivatives and medicaments containing these compounds. 4,636,513, 1-13-87, Cl. 514-326.000.
Kammerer, Gene W., to Johnson & Johnson Products, Inc. Reinforced casting material. 4,643,909, 2-17-87, Cl. 427-2.000.
Kammerer, Gene W.; Yoon, Hee K.; and Sun, Robert Li-Jrun, to Johnson & Johnson Products, Inc. Reinforced casting material. 4,690,842
9-1-87, Cl. 428-35.000.
Kammerer, Gerd, to Dieter Grasslin Feinwerktechnik. Device for thermostatic valves, particularly for the temperature reduction of thermostat - controlled radiators. 4,681,254, 7-21-87, Cl. 236-42.000.
Kammerer, Heinz, to Gebhard Balluff Fabrik Feinmechanischer Erzeugnisse GmbH & Co. Proximity switch with continuously operable test circuit responsive to bipolar double pulses. 4,652,819, 3-24-87, Cl. 324-207.000.
Kammerer, Joachim: *See—*
Amberg, Karl-Heinz; and Kammerer, Joachim, 4,668,048, Cl. 350-253.000.
Kammerer, Kent R. Ascender for rope climbing, adapted for use with a carabiner. 4,667,772, 5-26-87, Cl. 182-6.000.
Kammerlander, Karl; Haderer, Anton; and Neyen, Hans-Juergen v. d., to Siemens Aktiengesellschaft. Mobile radio network. 4,667,2
5-19-87, Cl. 342-457.000.
Kammermeier, Anton: *See—*
Moser, Ludwig M.; and Kammermeier, Anton, 4,679,650, Cl. 181-130.000.
Kammeyer, Karl-Dirk; and Rungeler, Andreas, to Robert Bosch GmbH. Converting and decoding receiver for digital data recorded in analog form on magnetic tape. 4,646,173, 2-24-87, Cl. 360-51.000.
Kammin, Marvin R.: *See—*
Williams, Donald J.; and Kammin, Marvin R., 4,686,549, Cl. 503-227.000.

Kammler, Roman; and Baur, Walter, to PME Pack-Matic Engineering GmbH. Distributing device for loose material, in particular for a combination scale. 4,674,581, 6-23-87, Cl. 177-25.000.

Kammoto, Yoshiaki; Asai, Takahiro; Kouchiwa, Taira; Saitoh, Masanori; and Asano, Shunji, to Ricoh Company, Ltd. Apparatus for reading the image information of a colored original. 4,647,961, 3-3-87, Cl. 358-75.000.

Kamo Denki Research Institute Ltd.: See—

Watanabe, Yuki; and Tozaki, Hiroshi, 4,640,612, Cl. 355-87.000.

Kamo, Jun: See—

Hamada, Eiichi; Nakashima, Atushi; and Kamo, Jun, 4,659,549, Cl. 422-48.000.

Takemura, Tohru; Nakashima, Atushi; Yoshida, Haruhiko; Kamo, Jun; and Hamada, Eiichi, 4,639,353, Cl. 422-46.000.

Takemura, Tohru; Itoh, Hajime; Kamo, Jun; and Yoshida, Haruhiko, 4,713,292, Cl. 428-373.000.

Kamo, Kazuhiko; Suwahara, Hiroshi; and Nakane, Ryuji, to Mitsubishi Denki Kabushiki Kaisha; and Mitsubishi Jukogyo Kabushiki Kaisha. Feed length control device for consumable electrode welding operations. 4,636,610, 1-13-87, Cl. 219-124.020.

Kamo, Osamu; Ohuchi, Muneki; and Matsushita, Kazuhiro, to JEOL Ltd. Nuclear magnetic resonance spectrometry. 4,641,096, 2-3-87, Cl. 324-311.000.

Kamo, Takashi: See—

Egami, Tsuneyuki; Saito, Tsutomu; Ando, Mitosi; Hori, Ryuzou; Kamo, Takashi; and Yoshida, Kazunori, 4,636,548, Cl. 250-571.000.

Egami, Tsuneyuki; Saito, Tsutomu; Ando, Mitosi; Hori, Ryuzou; Kamo, Takashi; and Yoshida, Kazunori, 4,682,041, Cl. 250-571.000.

Iku, Tadayoshi; and Kamo, Takashi, 4,712,419, Cl. 73-116.000.

Kamo, Tetuo: See—

Miyagawa, Junichi; Kamo, Tetuo; and Okada, Kazuichi, 4,665,893, Cl. 126-299.00D.

Kamo, Tomoichi: See—

Takeuchi, Seizi; Kamo, Tomoichi; Horiba, Tatsuo; Kitami, Kunio; Mori, Toshikatsu; Kahara, Toshiki; Imahashi, Junichi; Horii, Akio; Takeuchi, Masato; and Tamura, Kohki, 4,643,957, Cl. 429-41.000.

Kamo, Yoshihisa; Sato, Naoki; Kitada, Masahiro; and Takeura, Tooru, to Hitachi, Ltd. Magnetic transducer using magnetoresistance effect. 4,663,684, 5-5-87, Cl. 360-113.000.

Kamo, Yoshihisa: See—

Sato, Naoki; Kamo, Yoshihisa; Katoh, Yasuhiro; Kosuge, Minoru; and Arai, Shunichi, 4,716,306, Cl. 307-296.00R.

Kamo, Yuichi; and Mikami, Nobuo, to NEC Corporation. Polarized electromagnetic relay. 4,713,638, 12-15-87, Cl. 335-79.000.

Kamochi, Atsumi: See—

Sato, Junichi; Yasui, Kazuomi; Shiokawa, Kozo; and Kamochi, Atsumi, 4,659,370, Cl. 71-98.000.

Shiokawa, Kozo; Moriya, Koichi; Goto, Toshio; Kamochi, Atsumi; Ito, Seishi; and Horita, Mitsugu, 4,666,503, Cl. 71-90.000.

Kamoda, Takashi: See—

Ishiguro, Minoru; Kamoda, Takashi; Nishizawa, Tetuo; Nakayama, Shigeo; and Yoshida, Toshio, 4,669,845, Cl. 354-288.000.

Kamohara, Eiji, to Kabushiki Kaisha Toshiba. Built-in resistor for a cathode ray tube. 4,672,269, 6-9-87, Cl. 315-3.000.

Kamohara, Eiji, to Kabushiki Kaisha Toshiba. Electron gun. 4,686,420, 8-11-87, Cl. 315-15.000.

Kamohara, Eiji: See—

Takenaka, Shigeo; Kamohara, Eiji; and Nishimura, Takashi, 4,712,038, Cl. 313-2.100.

Takenaka, Shigeo; and Kamohara, Eiji, 4,712,043, Cl. 315-15.000.

Takenaka, Shigeo; Kamohara, Eiji; and Nishimura, Takashi, 4,714,856, Cl. 313-2.100.

Kamohara, Hideaki; Fujioka, Kazumasa; Kobari, Toshiaki; Takahashi, Kunihiro; and Ueda, Shinjiro, to Hitachi, Ltd. Apparatus for manufacturing semiconductors. 4,664,062, 5-12-87, Cl. 118-719.000.

Kamohara, Hisato: See—

Ochiai, Kunii; Horie, Hiromichi; Arima, Itsuo; Morita, Mikio; and Kamohara, Hisato, 4,696,725, Cl. 252-62.540.

Kamon, Akio; and Odaka, Yukio, to Kabushiki Kaisha Sunpak. Photographic illumination apparatus. 4,634,933, 1-6-87, Cl. 315-151.000.

Kamon, Yoshiyuki; Yamagishi, Makoto; and Watanabe, Shingo, to Sony Corporation. Earphone. 4,646,872, 3-3-87, Cl. 181-129.000.

Kamon, Yoshiyuki: See—

Yokoyama, Yoshihiro; Kamon, Yoshiyuki; and Kakiuchi, Tsutomu, 4,668,842, Cl. 381-183.000.

Kamono, Takashi; and Otsu, Akihiko, to AMP Incorporated. Electrical connector for a chip carrier. 4,657,324, 4-14-87, Cl. 339-17.0CF.

Kamoshita, Katsuzo: See—

Nagano, Eiki; Hashimoto, Shunichi; Yoshida, Ryo; Matsumoto, Hiroshi; and Kamoshita, Katsuzo, 4,670,046, Cl. 71-96.000.

Nagano, Eiki; Yoshida, Ryo; Matsumoto, Hiroshi; Hashimoto, Shunichi; and Kamoshita, Katsuzo, 4,684,397, Cl. 71-96.000.

Nagano, Eiki; Yoshida, Ryo; Matsumoto, Hiroshi; Hashimoto, Shunichi; and Kamoshita, Katsuzo, 4,709,049, Cl. 548-513.000.

Sakamoto, Kazuhiko; Nakatsuji, Toshiharu; Mototani, Hideo; Kamoshita, Katsuzo; Nakayama, Isamu; and Kato, Toshiro, 4,654,368, Cl. 514-493.000.

Takahashi, Junya; Kato, Toshiro; Noguchi, Hiroshi; Oguri, Yukio; Yamamoto, Shigeo; and Kamoshita, Katsuzo, 4,647,582, Cl. 514-482.000.

Takahashi, Junya; Kato, Toshiro; Noguchi, Hiroshi; Ishiguri, Yukio; Yamamoto, Shigeo; and Kamoshita, Katsuzo, 4,647,583, Cl. 514-482.000.

Takahashi, Junya; Kato, Toshiro; Noguchi, Hiroshi; Oguri, Yukio; Yamamoto, Shigeo; and Kamoshita, Katsuzo, 4,647,584, Cl. 514-485.000.

Takahashi, Junya; Kato, Toshiro; Noguchi, Hiroshi; Oguri, Yukio; Yamamoto, Shigeo; and Kamoshita, Katsuzo, 4,666,938, Cl. 514-479.000.

Takahashi, Junya; Noguchi, Hiroshi; Oguri, Yukio; Yamamoto, Shigeo; Kato, Toshiro; and Kamoshita, Katsuzo, 4,672,070, Cl. 514-346.000.

Takahashi, Junya; Kato, Toshiro; and Kamoshita, Katsuzo, 4,690,946, Cl. 514-485.000.

Takahashi, Junya; Kato, Toshiro; and Kamoshita, Katsuzo, 4,710,514, Cl. 514-485.000.

Takemoto, Ichiki; Sumida, Seizo; Yoshida, Ryo; and Kamoshita, Katsuzo, 4,690,709, Cl. 71-120.000.

Kamoshita, Mutuo: See—

Okamura, Hisanori; Akiyama, Hirosi; Kamoshita, Mutuo; and Miyazaki, Kunio, 4,636,434, Cl. 428-328.000.

Okamura, Hisanori; Miyazaki, Kunio; Akiyama, Hirosi; Itoh, Shimichi; Yasuda, Tomio; Nakamura, Kousuke; Okoshi, Yukio; Kamoshita, Mutuo; and Chiba, Akio, 4,690,793, Cl. 376-136.000.

Kamoshita, Yasuhiko; Tamaru, Takuya; Ogusu, Mikio; and Urata, Kazuo, to Nippon Gakki Seizo Kabushiki Kaisha. Disc playback device. 4,679,182, 7-7-87, Cl. 369-77.200.

Kamoshita, Yasuhiko, to Nippon Gakki Seizo Kabushiki Kaisha. Mode switching device in a disc playback device. 4,686,665, 8-11-87, Cl. 369-77.200.

Kamoshita, Yasuhiko: See—

Ogusu, Mikio; Urata, Kazuo; Tamaru, Takuya; and Kamoshita, Yasuhiko, 4,646,285, Cl. 369-291.000.

Kamoun, Ahmed: See—

Chaveron, Henri; Pontillon, Jean; Billon, Michel; Adenier, Herve; and Kamoun, Ahmed, 4,679,498, Cl. 99-483.000.

Chaveron, Henri; Pontillon, Jean; Billon, Michel; Adenier, Herve; and Kamoun, Ahmed, 4,713,256, Cl. 426-631.000.

Kamp, Arthur J.: See—

Marino, Dean F.; Ryan, William E.; and Kamp, Arthur J., 4,638,168, Cl. 250-560.000.

Kamp, Eugene L., to A. B. Chance Company. Three phase vacuum switch operating mechanism with anti-bounce device for interrupter contacts. 4,713,503, 12-15-87, Cl. 200-144.00B.

Kamp, Ewald A., to First Brands Corporation. Multiple omega closures. 4,665,557, 5-12-87, Cl. 383-63.000.

Kamp, Ewald A.: See—

Borchardt, Michael G.; Dorsey, Robert T.; and Kamp, Ewald A., 4,710,968, Cl. 383-63.000.

Kamp, Franz: See—

Dirkmeier, Ulrich; Kamp, Franz; and Fringes, Wilhelm, 4,660,601, Cl. 137-613.000.

Kamp, Heinz; and Becker, Rolf, to W. Schlafhorst & Co. Apparatus for automatically lifting a cross-wound bobbin from its drive drum. 4,635,866, 1-13-87, Cl. 242-36.000.

Kamp, Heinz; and Becker, Rolf, to W. Schlafhorst & Co. Thread traversing device of a machine for producing cross-wound bobbins. 4,674,695, 6-23-87, Cl. 242-43.00A.

Kamp, Karl-Heinz: See—

Langhoff, Josef; Krischke, Hermann; Geldmacher, Horst; Golomb, Manfred; Kamp, Karl-Heinz; Masuch, Peter; and Chalupnik, Rolf, 4,715,809, Cl. 431-170.000.

Kamp, Klaus: See—

Nirschl, Heinrich; Kamp, Klaus; and Stummer, Baldur, 4,639,909, Cl. 370-58.000.

Kampe, Klaus-Dieter: See—

Granzer, Ernold; and Kampe, Klaus-Dieter, 4,705,792, Cl. 514-275.000.

Kampe, Wolfgang: See—

Holck, Jens-Peter; Mertens, Alfred; Kampe, Wolfgang; Muller-Beckmann, Bernd; Sponer, Gisbert; and Strein, Klaus, 4,666,923, Cl. 514-338.000.

Mertens, Alfred; Holck, Jens-Peter; Kampe, Wolfgang; Muller-Beckmann, Bernd; Strein, Klaus; and Schaumann, Wolfgang, 4,710,510, Cl. 514-394.000.

Michel, Helmut; Marzenell, Klaus; Kampe, Wolfgang; Bartsch, Wolfgang; and Schaumann, Wolfgang, 4,642,309, Cl. 514-269.000.

Schaumann, Wolfgang; Wilhelms, Otto-Henning; Roesch, Androniki; and Kampe, Wolfgang, 4,704,381, Cl. 514-46.000.

Kampelmuhler, Franz, to Pierburg GmbH & Co KG. Apparatus for determining the fuel-air ratio of Otto engines. 4,657,737, 4-14-87, Cl. 422-94.000.

Kamperman, Charles F. Storage container. 4,647,118, 3-3-87, Cl. 312-13.000.

Kampf, Arieh: See—

Hermolin, Joshua; and Kampf, Arieh, 4,709,100, Cl. 568-639.000.

Kampf GmbH & Co. Maschinenfabrik: See—

Hutzenlaub, Armin, 4,637,103, Cl. 26-73.000.

Kampf, Julian C.; Reichard, Jeffrey A.; Libert, James T.; Curran, Earl J., Jr.; and Graefe, Richard J., to Square D Company. Reduced voltage starter with voltage ramp control. 4,634,951, 1-6-87, Cl. 318-778.000.

Kampf, Richard S.: See—

Horrocks, Donald L.; and Kampf, Richard S., 4,678,912, Cl. 250-328.000.

Kampfer, Angelika: See—

Bouadma, Noureddine; Brillouet, Francois; and Kampfer, Angelika, 4,692,207, Cl. 156-649.000.

Kampfer, Helmut: *See—*
  - Meckl, Heinz; Kampfer, Helmut; and Haseler, Helmut, 4,636,460, Cl. 430-442.000.

Kampfer, Konrad; Rieger, Wolfhart; Gauckler, Ludwig; and Dellapina, Marco, to Swiss Aluminium Ltd. Porous ceramic filter body and manufacturing method therefor. 4,678,758, 7-7-87, Cl. 501-80.000.

Kampfer, Konrad: *See—*
  - Rieger, Wolfhart; Gauckler, Ludwig; Maurer, Albert; and Kampfer, Konrad, 4,690,763, Cl. 210-496.000.

Kampmann, Friedrich-Wilhelm: *See—*
  - Schrodter, Hermann; Braun, Albert; and Kampmann, Friedrich-Wilhelm, 4,687,512, Cl. 75-58.000.

Kampus, Raymond: *See—*
  - Merklinger, William E.; Webster, Daniel; and Kampus, Raymond, 4,671,012, Cl. 49-55.000.

Kamrath, Theresa K. Bib with teething surface. 4,694,510, 9-22-87, Cl. 2-49.00R.

Kamrud, Robert A., Sr., to Lapides, Gerald. High voltage tubing conductor holding device. 4,676,472, 6-30-87, Cl. 248-542.000.

Kamui Company Ltd.: *See—*
  - Shibuya, Hisao; and Yusa, Tsunero, 4,697,321, Cl. 29-157.30R.

Kamura, Yukio; Nakano, Seizo; Tsubaki, Tohru; Miwada, Satoshi; and Amano, Naoki, to Hitachi, Ltd. Gas-insulated switchgear apparatus. 4,658,329, 4-14-87, Cl. 361-332.000.

Kamuro, Setsufumi, to Sharp Kabushiki Kaisha. Address decoder circuit. 4,651,031, 3-17-87, Cl. 307-449.000.

Kamuro, Setsufumi; and Okada, Mikiro, to Sharp Kabushiki Kaisha. Reference voltage generating circuit for enhancement/depletion MOSFET load circuit for driving logic circuits. 4,709,168, 11-24-87, Cl. 307-448.000.

Kamuro, Setsufumi: *See—*
  - Hirano, Takaaki; Kamuro, Setsufumi; Yamaguchi, Akira; Tanimoto, Junichi; and Okada, Mikiro, 4,694,393, Cl. 364-200.000.
  - Yamaguchi, Akira; Kamuro, Setsufumi; and Sakamoto, Jitsuo, 4,672,647, Cl. 377-77.000.

Kamyr AB: *See—*
  - Ahs, Bjorn, 4,680,108, Cl. 209-273.000.
  - Ahs, Bjorn, 4,699,324, Cl. 241-21.000.
  - Granberg, Bertil, 4,673,330, Cl. 415-1.000.
  - Jacobsen, Finn, 4,705,600, Cl. 162-19.000.
  - Nilsson, Bengt, 4,692,214, Cl. 162-261.000.
  - Nilsson, Bengt H., 4,668,341, Cl. 162-23.000.
  - Nilsson, Bengt H., 4,710,268, Cl. 162-23.000.
  - Richter, Johan C. F. C.; and Richter, Ole J., 4,637,878, Cl. 210-388.000.

Kamyr, Inc.: *See—*
  - Elmore, Carl L.; Poulin, Ted M.; and Barrett, Mark D., 4,638,855, Cl. 165-101.000.
  - Elmore, Carl L.; Sherman, Paul; and McGrath, Daniel A., 4,673,459, Cl. 159-13.100.
  - Sherman, Michael I.; and Golston, Stefan, 4,637,779, Cl. 415-143.000.
  - Sherman, Michael I., 4,668,340, Cl. 162-16.000.

Kan, Fumitaka; Hayakawa, Naoji; Majima, Toshiaki; Takenouchi, Masanori; Yamamoto, Mitsuru; Suzuki, Hidetoshi; and Nomura, Ichiro, to Canon Kabushiki Kaisha. Image-recording apparatus. 4,675,699, 6-23-87, Cl. 346-76.00R.

Kan, Fumitaka: *See—*
  - Egami, Hidemi; Kan, Fumitaka; Hosoi, Atsushi; Tajima, Hatsuo; Nakamura, Shunji; and Nakahata, Kimio, 4,660,958, Cl. 355-3.0DD.
  - Hosoi, Atsushi; Kan, Fumitaka; Egami, Hidemi; Tajima, Hatsuo; Nakamura, Shunji; and Nakahata, Kimio, 4,637,706, Cl. 355-3.0DD.
  - Nakamura, Shunji; Kan, Fumitaka; Egami, Hidemi; Hosoi, Atsushi; Tajima, Hatsuo; and Nakahata, Kimio, 4,638,760, Cl. 118-658.000.
  - Tajima, Hatsuo; Nakahata, Kimio; Egami, Hidemi; Kan, Fumitaka; and Hosoi, Atsushi, 4,669,852, Cl. 355-3.0DD.

Kan, Kwok-Ning S., to L & F Industries. Jaw assembly for stretch press. 4,706,486, 11-17-87, Cl. 72-302.000.

Kan, Peter T.: *See—*
  - Narayan, Thirumurti; and Kan, Peter T., 4,677,154, Cl. 524-710.000.

Kan, Yoshiro, to Nippon Seiko Kabushiki Kaisha. Water pump. 4,715,780, 12-29-87, Cl. 415-170.00A.

Kan, Yuji; and Iwaki, Hiroshi, to Sanyo Electric Co., Ltd. Sheet member feeding cassette. 4,697,803, 10-6-87, Cl. 271-127.000.

Kanada, Eiji; Suzuki, Shigeyoshi; Endo, Kazunaka; and Yamamoto, Kyonosuke, to Mitsubishi Paper Mills, Ltd. Method of exposing photosensitive material. 4,636,066, 1-13-87, Cl. 355-77.000.

Kanada, Hidehiro: *See—*
  - Eto, Yoshizumi; Umemoto, Masuo; Kanada, Hidehiro; and Mita, Seiichi, 4,698,811, Cl. 371-38.000.
  - Izumita, Morishi; Mita, Seiichi; Umemoto, Masuo; Kanada, Hidehiro; and Rokuda, Morito, 4,661,956, Cl. 371-38.000.
  - Umemoto, Masuo; Eto, Yoshizumi; Kanada, Hidehiro; and Rokuda, Morito, 4,700,240, Cl. 360-48.000.
  - Umenoto, Masuo; Mita, Seiichi; Izumita, Morishi; Michikawa, Yuuichi; Rokuda, Morito; Katayama, Hitoshi; and Kanada, Hidehiro, 4,670,797, Cl. 358-310.000.

Kanada, Hiroshi: *See—*
  - Nakagawa, Hiroshi; Iwamoto, Hiroshi; Kanada, Hiroshi; Kato, Kazumichi; and Kurita, Yutaka, 4,668,883, Cl. 310-12.000.

Kanada, Kenji: *See—*
  - Sugiura, Saburo; Kanada, Kenji; Demukai, Noboru; and Okamoto, Tetsuo, 4,706,258, Cl. 373-2.000.

Kanada, Shigeyasu: *See—*
  - Nishimura, Yuji; and Kanada, Shigeyasu, 4,669,680, Cl. 242-107.000.
  - Nishimura, Yuji; Fujiwara, Akinori; and Kanada, Shigeyasu, 4,678,928, Cl. 307-10.0SB.

Kanada, Taira: *See—*
  - Hibino, Mitsugu; Kanada, Taira; and Hirata, Miyoshi, 4,690,907, Cl. 436-514.000.

Kanagasundaram, Natarajan: *See—*
  - Leevy, Carroll M.; Sameshina, Yoichi; and Kanagasundaram, Natarajan, 4,689,298, Cl. 435-240.270.

Kanagawa Mfg., Co., Ltd.: *See—*
  - Goto, Hajime; Amemiya, Ikuzo; Nakayama, Masanobu; and Hatano, Yoshinobu, 4,639,988, Cl. 29-25.35.

Kanagawa, Nobuto: *See—*
  - Hata, Takehisa; Kanagawa, Nobuto; Morishita, Takashi; and Suzuki, Toshiyuki, 4,690,816, Cl. 424-456.000.

Kanagawa, Shuuichi: *See—*
  - Higashimura, Toshinobu; Sawamoto, Mitsuo; Toyoshima, Yoshiki; Kanagawa, Shuuichi; Takahashi, Tsutomu; and Saito, Noriaki, 4,696,988, Cl. 526-220.000.

Kanai, Akira: *See—*
  - Kimura, Sosaku; Hatsuse, Toshikazu; Shimizu, Masami; Miyashita, Masakazu; Yoshioka, Junichi; Kanai, Akira; and Koizumi, Koichi, 4,656,951, Cl. 108-20.000.
  - Nagashima, Mitsuyoshi; Hatsuse, Toshikazu; Miyashita, Masakazu; and Kanai, Akira, 4,653,408, Cl. 108-20.000.

Kanai, Hidefumi: *See—*
  - Oishi, Mitsugu; and Kanai, Hidefumi, 4,634,259, Cl. 355-4.000.

Kanai, Hideo; Komba, Toshinori; and Mogi, Eiji, to Nagase Medical Supply Co., Ltd. Apparatus for automatically changing X-ray films. 4,694,571, 9-22-87, Cl. 29-806.000.

Kanai, Hideo: *See—*
  - Hirakata, Kaoru; Mochizuki, Masaaki; Kanai, Hideo; and Itai, Reiichi, 4,687,565, Cl. 204-258.000.

Kanai, Hiroyuki; Imamura, Tetsuya; Takeuchi, Takeshi; and Suzue, Shigetoshi, to Kao Corporation. Magnetic recording medium. 4,675,250, 6-23-87, Cl. 428-403.000.

Kanai, Hiroyuki, to Kanai Juyo Kogyo Kabushiki Kaisha. Travellers for spinning machinery. 4,677,817, 7-7-87, Cl. 57-125.000.

Kanai, Hiroyuki: *See—*
  - Imamura, Takashi; Nozaki, Toshio; Nishino, Kenji; and Kanai, Hiroyuki, 4,670,430, Cl. 514-188.000.

Kanai, Junichi: *See—*
  - Tanaka, Masanori; Maehara, Atsushi; and Kanai, Junichi, 4,679,996, Cl. 418-201.000.

Kanai Juyo Kogyo Co., Ltd.: *See—*
  - Nakano, Yuzuru; and Yoshikawa, Takeshi, 4,698,958, Cl. 57-119.000.

Kanai Juyo Kogyo Kabushiki Kaisha: *See—*
  - Kanai, Hiroyuki, 4,677,817, Cl. 57-125.000.
  - Nakamura, Ritsuji, 4,696,080, Cl. 19-114.000.

Kanai, Kazuhiko, to Murata Manufacturing Co., Ltd. High-voltage ceramic capacitor and method of producing the same. 4,654,749, 3-31-87, Cl. 361-321.000.

Kanai, Kenji; Kaminaka, Nobuyuki; Nomura, Noboru; and Omata, Yuuji, to Matsushita Electric Industrial Co., Ltd. Magnetic head having electromechanical transducer disposed at one end thereof. 4,672,496, 6-9-87, Cl. 360-126.000.

Kanai, Kenji: *See—*
  - Takahashi, Ken; Youda, Hiroshi; Sasaki, Seishi; and Kanai, Kenji, 4,654,739, Cl. 360-113.000.

Kanai, Makoto; Aikawa, Hideaki; Inada, Eiichi; and Ohtsuka, Katsuyuki, to Doryokuro Kakunenryo Kaihatsu Jigyodan. Process for the treatment of radioactive sodium. 4,643,846, 2-17-87, Cl. 252-626.000.

Kanai, Makoto: *See—*
  - Nishida, Kouji; Hayashi, Chikahisa; and Kanai, Makoto, 4,647,722, Cl. 379-63.000.

Kanai, Masahiro, to Canon Kabushiki Kaisha. Amorphous silicon photoconductive member with reduced spin density in surface layer. 4,661,427, 4-28-87, Cl. 430-57.000.

Kanai, Masahiro: *See—*
  - Ishihara, Shunichi; Ohno, Shigeru; Kanai, Masahiro; Oda, Shunri; and Shimizu, Isamu, 4,716,048, Cl. 427-39.000.
  - Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,650,736, Cl. 430-57.000.
  - Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,675,263, Cl. 430-57.000.
  - Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,678,733, Cl. 430-57.000.
  - Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,696,881, Cl. 430-57.000.
  - Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,696,882, Cl. 430-57.000.
  - Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,696,883, Cl. 430-57.000.

  Saitoh, Keishi, Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,696,884, Cl 430-58.000.
  Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,701,392, Cl 430-57.000.
  Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,701,393, Cl 430-57.000.
  Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,705,730, Cl 430-57.000.
  Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,705,731, Cl 430-57.000.
  Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,705,732, Cl 430-57.000.
  Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,705,733, Cl 430-57.000.
  Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,705,734, Cl 430-57.000.
  Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,705,735, Cl 430-57.000.

Kanai, Mitsuharu: *See—*
  Akutsu, Mitsuo; and Kanai, Mitsuharu, 4,707,507, Cl 524-99.000.
  Leistner, William E.; Nakahara, Yutaka; Hirai, Bunji; and Kanai, Mitsuharu, 4,692,485, Cl 524-99.000.

Kanai Sharin Kogyo Kabushiki Kaisha: *See—*
  Tsuruoka, Kouichi; Kannan, Takaaki; and Suematu, Jiro, 4,699,264, Cl 198-468.200.

Kanai, Tadashi: *See—*
  Sakai, Hideaki; and Kanai, Tadashi, 4,713,454, Cl 544-258.000.

Kanai, Takao: *See—*
  Yamaguchi, Katsumi; Yokoi, Syouichiro; Kanai, Takao; and Yoshikawa, Kikuo, 4,708,302, Cl. 242-204.000.

Kanai, Takayuki: *See—*
  Sato, Minoru; and Kanai, Takayuki, 4,633,654, Cl 53-511.000.

Kanai, Yasunori, and Saitoh, Taichi, to Fujitsu Limited. Emitter coupled logic circuit with high drivability for capacitive load. 4,678,942, 7-7-87, Cl 307-455.000.

Kanai, Yasunori: *See—*
  Nawata, Kazumasa; and Kanai, Yasunori, 4,678,935, Cl 307-297.000.

Kanai, Yutaka: *See—*
  Konno, Tetsuro; Kanai, Yutaka; and Fujita, Tetsuya, 4,678,313, Cl 355-3.00R.

Kanaiwa, Kiyoshi: *See—*
  Seto, Kaoru; Ushio, Yukihide; Hori, Kenjiro; Hashimoto, Hiroshi; Yoshimoto, Toshio; and Kanaiwa, Kiyoshi, 4,712,118, Cl 346-108.000.
  Ueda, Sigel; Matsumoto, Kozo; Kanaiwa, Kiyoshi; and Adachi, Muneo, 4,701,746, Cl 340-347.0DD.

Kanaizumi, Masaru: *See—*
  Miyagi, Morio; Ohno, Makoto; and Kanaizumi, Masaru, 4,681,713, Cl 264-41.000.

Kanakkanatt, Sebastian V.: *See—*
  Cardarelli, Nathan F., and Kanakkanatt, Sebastian V., 4,634,693, Cl 514-169.000.

Kanamaru, Hisanobu; Sasaya, Kazushi; Onuma, Tomiyasu; and Tohkairin, Akira, to Hitachi, Ltd. Fluid machine. 4,644,850, 2-24-87, Cl 91-507.000.

Kanamaru, Hisanobu; Aoyama, Susumu; and Koike, Tsutomu, to Hitachi, Ltd.; and M. H. Center, Ltd. Apparatus for forming metallic article by cold extrusion. 4,653,305, 3-31-87, Cl 72-343.000.

Kanamaru, Hitoshi, to Pioneer Electronic Corporation. Optical information reading apparatus. 4,634,853, 1-6-87, Cl. 250-201.000.

Kanamaru, Hitoshi, to Pioneer Video Corporation. Cross-talk eliminating device in information-carrying disc player. 4,665,442, 5-12-87, Cl 358-340.000.

Kanamaru, Hitoshi, to Pioneer Electronic Corporation. Disc player having pick-up tilt servo system combined with disc presence detection circuits. 4,680,744, 7-14-87, Cl. 369-44.000.

Kanamaru, Takeshi: *See—*
  Ueyama, Masato; Kanamaru, Takeshi; Shirai, Toshikazu; and Nakano, Kiyoshi, 4,673,075, Cl. 198-339.100.

Kanamori, Hiroo: *See—*
  Mizutani, Futoshi; Tanaka, Gotaro; and Kanamori, Hiroo, 4,666,488, Cl. 65-3.120.
  Tanaka, Gotaro; Mizutani, Futoshi; Yoshioka, Naoki; and Kanamori, Hiroo, 4,675,040, Cl. 65-3.120.
  Yokota, Hiroshi; Tanaka, Gotaro; Kanamori, Hiroo; Mizutani, Futoshi; and Danzuka, Toshio, 4,668,263, Cl. 65-3.110.

Kanamori, Jun; and Yokoyama, Mamoru, to Oki Electric Industry Co., Ltd. Etching method employing positive photoresist film. 4,686,173, 8-11-87, Cl. 430-313.000.

Kanamori, Nobutaka: *See—*
  Sago, Yoshiharu; Kurosawa, Masaji; and Kanamori, Nobutaka, 4,650,621, Cl. 264-62.000.

Kanamori, Osamu, to Mitsubishi Denki Kabushiki Kaisha. Balustrade of a passenger conveyor. 4,705,155, 11-10-87, Cl 198-335.000.

Kanamori, Takashi: *See—*
  Sawai, Hideo; Kanamori, Takashi; Kuroki, Kenji; and Shibata, Susumu, 4,661,827, Cl. 346-76.0PH.

Kanamori, Toshinori: *See—*
  Nobuhara, Masahiro; Kanamori, Toshinori; Yamaguchi, Kiyoshi; and Mochida, Ei, 4,680,261, Cl 435-68.000.

Kanamoto, Jinshu: *See—*
  Ito, Yoshikuni; Kanamoto, Jinshu; Murayama, Seiji; and Suzuki, Shinji, 4,666,527, Cl 127-60.000.

Kanamoto, Yoshifumi: *See—*
  Satoh, Toshio; Matsumoto, Hitoshi; Kakegawa, Hisao; Kato, Yoshiko; Riku, Juichi; Yoshinaga, Junji; and Kanamoto, Yoshifumi, 4,634,777, Cl 548-561.000.

Kanao, Munefumi, to Daiichi Seiyaku Co., Ltd. Certain [(1-imidazolyl)-lower-alkylene]-tetrahydronaphthalenecarboxylic acids or corresponding idan-carboxylic acids which are thromboxane A_2 inhibitors. 4,665,188, 5-12-87, Cl. 548-341.000.

Kanaoka, Chikao: *See—*
  Saito, Kenichiro; Kanaoka, Chikao; and Aoyama, Shigeyuki, 4,707,167, Cl. 55-267.000.

Kanaoka, Katsuki: *See—*
  Akaeda, Tadayoshi; Yamamoto, Yuko; and Kanaoka, Katsuki, 4,646,102, Cl. 343-915.000.

Kanaoka, Masaru: *See—*
  Hoshinouchi, Susumu; Kanaoka, Masaru; and Fukada, Atsushi, 4,689,466, Cl 219-121.00L.

Kanaoka, Tomizo: *See—*
  Takano, Hiroshi; Takagi, Shinichi; Wada, Kiyokazu; Konishi, Sadaichi; and Kanaoka, Tomizo, 4,708,699, Cl. 474-144.000.

Kanaoka, Toshiaki: *See—*
  Ishimura, Yohzoh; Nakano, Okihiko; Matsukura, Toyotsugu; and Kanaoka, Toshiaki, 4,663,508, Cl. 219-10.55C.

Kanars Data Corporation: *See—*
  Sekiguchi, Hiroshi, 4,646,223, Cl. 364-130.000.

Kanarvogel, Leon, to MVM Valve Co., Inc. Liquid dispensing apparatus and an anti-drip valve cartridge therefor. 4,634,027, 1-6-87, Cl 222-380.000.

Kanasugi, Haruki: *See—*
  Kurosu, Yasuhisa; Kawada, Hiroshi; Kanasugi, Haruki; and Hosokawa, Akio, 4,696,947, Cl 514-478.000.

Kanasugi, Mikiko: *See—*
  Kaneko, Kazuo; Suzuka, Susumu; Gonda, Michihiro; and Kanasugi, Mikiko, 4,694,088, Cl. 549-226.000.

Kanasugi, Toshihiko: *See—*
  Nagaoka, Kazuo; Isobe, Tomoichi; Kanasugi, Toshihiko; Suzuki, Nobuyuki; Wakabayashi, Sadao; Uchida, Kenji; Tsukamoto, Hideharu; Ohno, Mitsuru; and Shimano, Tadahiko, 4,649,648, Cl 33-125.00R.

Kanat, Yasar: *See—*
  Schaulin, Jean-Michel; Gantin, Robert; and Kanat, Yasar, 4,674,393, Cl. 89-33.140.

Kanatani, Tadayuki; Nomura, Katunori; and Uchida, Hirotaka, to Kabushiki Kaisha Toshiba. Multistage wire drawing apparatus. 4,662,203, 5-5-87, Cl 72-9.000.

Kanatani, Yoshiharu: *See—*
  Fujioka, Yoshihide; Harada, Shigeyuki; Ohba, Toshihiro; Kanatani, Yoshiharu; and Uede, Hisashi, 4,686,426, Cl 315-169.300.

Kanaya, Yasuhiko: *See—*
  Ohtani, Tamio; Kanaya, Yasuhiko; Aoyama, Hiroshi; and Nonaka, Nobuyasu, 4,658,494, Cl. 29-568.000.

Kanayama, Hideaki, to Kabushiki Kaisha Fujikoshi; and Mazda Motor Corporation. Apparatus for automatic glazing of cars. 4,715,772, 12-29-87, Cl. 414-730.000.

Kanayama, Hitoshi, to Hokoku Chain Co., Ltd. Conveyor apparatus. 4,696,236, 9-29-87, Cl. 104-165.000.

Kanayama, Ikuo: *See—*
  Hayashi, Toshihide; Kanayama, Ikuo; and Kanno, Masayoshi, 4,691,351, Cl. 380-10.000.
  Hayashi, Toshihide; Yamakami, Osamu; and Kanayama, Ikuo, 4,710,972, Cl. 455-179.000.
  Kanno, Masayoshi; Hideshima, Yasuhiro; Tsurumaru, Shinobu; and Kanayama, Ikuo, 4,691,236, Cl. 358-181.000.

Kanayama, Kaoru, to Mitsubishi Petrochemical Co., Ltd. Polyglycidyl ethers and a process for producing the same. 4,656,294, 4-7-87, Cl 549-335.000.

Kanayama, Ryoji: *See—*
  Uzaki, Nagato; Itoh, Shigeru; Kanayama, Ryoji; Harada, Hisashi; and Kawamura, Yasutaro, 4,633,928, Cl 164-19.000.

Kanayama, Tatsuo: *See—*
  Ueno, Ryuzo; Kanayama, Tatsuo; Fujita, Yatsuka; and Yamamoto, Munemitsu, 4,647,458, Cl. 424-128.000.

Kanayama, Tatsuya; Yamanaka, Yutaka; Toyoda, Hitoshi; Tanaka, Akihiko; and Shinogaya, Toshikazu, to Bridgestone Corporation. Electromagnetic reflection body. 4,647,495, 3-3-87, Cl. 428-246.000.

Kanayama, Toshiji: *See—*
  Morinaka, Yasuhiro; Iseki, Katsuhiko; Kanayama, Toshiji; Watanabe, Toshiaki; and Nishi, Hiroyoshi, 4,668,677, Cl 514-248.000.
  Shibasaki, Masakatsu; Sodeoka, Mikiko; Ogawa, Yuji; Mase, Toshiaki; Ishibashi, Akira; Horii, Daijiro; Kanayama, Toshiji; Iseki, Katsuhiko; Shinoda, Masaki; Ishiyama, Chiyoko; and Hayashi, Yoshio, 4,699,921, Cl. 514-530.000.

Kanazaki, Mikio: *See—*
  Kubo, Kiichirou; and Kanazaki, Mikio, 4,687,300, Cl. 350-336.000.
  Matsuyama, Shigeru; Kanazaki, Mikio; Aoki, Norio; and Ishii, Akira, 4,709,993, Cl. 350-339.00F.

Kanazaki, Takuro: *See—*
  Yanagisawa, Hiroaki; Ishihara, Sadao; Ando, Akiko; Kanazaki, Takuro; Koike, Hiroyuki; and Tsujita, Yoshio, 4,699,905, Cl. 514-211.000.

Kanazawa, Hidetoshi, to Kabushiki Kaisha Toshiba. Air conditioner. 4,663,942, 5-12-87, Cl. 62-227.000.

Kanazawa, Hiroshi; Yamashita, Seizi; and Miyashita, Kunio, to Hitachi, Ltd. Linear motor and control method thereof. 4,678,971, 7-7-87, Cl. 318-135.000.

Kanazawa, Hirotaka; Takatani, Teruhiko; Furutani, Shigeki; Chikuma, Isamu; Shimada, Satoru; and Eda, Hiroshi, to Mazda Motor Corporation. Four-wheel steering system for vehicle. 4,646,867, 3-3-87, Cl. 180-140.000.

Kanazawa, Hirotaka; Takatani, Teruhiko; and Takata, Naoto, to Mazda Motor Corporation. Four-wheel steering device for vehicle. 4,657,102, 4-14-87, Cl. 180-140.000.

Kanazawa, Hirotaka, to Mazda Motor Corporation. Steering system for vehicle. 4,658,927, 4-21-87, Cl. 180-142.000.

Kanazawa, Hirotaka; Tanaka, Takeshi; Furutani, Shigeki; and Miyoshi, Akihiko, to Mazda Motor Corporation. Vehicle steering system. 4,673,189, 6-16-87, Cl. 280-91.000.

Kanazawa, Katsue: *See—*
  Ikawa, Yasuo; Toyoda, Nobuyuki; Kanazawa, Katsue; Mizoguchi, Takamaro; and Hojo, Akimichi, 4,663,646, Cl. 357-45.000.

Kanazawa, Kazuo: *See—*
  Yazawa, Akira; Itagaki, Kimio; Sezaki, Kazuo; Matsuda, Kenji; Kanazawa, Kazuo; Hayashi, Mitsuo; and Katada, Katsuo, 4,657,585, Cl. 75-63.000.

Kanazawa, Kunihiko: *See—*
  Hagio, Masahiro; Nanbu, Shutaro; Kanazawa, Kunihiko; Ogata, Shunji; and Tohmori, Shiro, 4,665,416, Cl. 357-22.000.

Kanazawa, Kyoetsu; and Ono, Mitsuo, to Nippon Gakki Seizo Kabushiki Kaisha. Pad cups for a wood wind. 4,708,047, 11-24-87, Cl. 84-385.00P.

Kanazawa, Manabu, to Canon Kabushiki Kaisha. Electronic apparatus with a battery. 4,653,822, 3-31-87, Cl. 339-17.00E.

Kanazawa, Takenobu: *See—*
  Takeo, Saegusa; Horikawa, Jiro; Niwano, Masahiro; and Kanazawa, Takenobu, 4,650,608, Cl. 540-451.000.

Kanazawa, Toshiro: *See—*
  Ohtaka, Hiroshi; Kanazawa, Toshiro; Ito, Keizo; and Tsukamoto, Goro, 4,663,325, Cl. 514-255.000.
  Ohtaka, Hiroshi; Kanazawa, Toshiro; Ito, Keizo; and Tsukamoto, Goro, 4,703,048, Cl. 514-255.000.

Kanazawa, Yasunori: *See—*
  Kitta, Kenichi; Kanazawa, Yasunori; and Otomo, Yoshiro, 4,678,338, Cl. 356-402.000.
  Yonezawa, Seiji; Kanazawa, Yasunori; and Tsuyoshi, Toshiaki, 4,703,408, Cl. 369-44.000.

Kanbara, Hisashige: *See—*
  Ohta, Tomohisa; Dobashi, Akihiko; Kanbara, Hisashige; and Seki, Yasuyuki, 4,659,788, Cl. 525-518.000.
  Ohta, Tomohisa; Dobashi, Akihiko; Kanbara, Hisashige; and Seki, Yasuyuki, 4,665,106, Cl. 522-49.000.

Kanbara, Katsuhiro: *See—*
  Saotome, Kaoru; Sasaki, Hiroyuki; and Kanbara, Katsuhiro, 4,705,244, Cl. 248-68.100.

Kanbara, Yukio: *See—*
  Kanou, Kazuo; Shinoda, Takamitu; and Kanbara, Yukio, 4,713,411, Cl. 524-560.000.

Kanbe, Junichiro; Katagiri, Kazuharu; and Kaneko, Syuzo, to Canon Kabushiki Kaisha. Method of driving optical modulation device using ferroelectric liquid crystal. 4,655,561, 4-7-87, Cl. 350-350.00S.

Kanbe, Junichiro; Okada, Shinjiro; Takahashi, Tohru; and Ando, Yujiro, to Canon Kabushiki Kaisha. Liquid crystal device having reduced-pressure region in communication with ferroelectric liquid crystal. 4,682,858, 7-28-87, Cl. 350-334.000.

Kanbe, Junichiro; and Okada, Shinjiro, to Canon Kabushiki Kaisha. Liquid crystal device using ferroelectric liquid crystal twisted in two stable states. 4,709,994, 12-1-87, Cl. 350-350.00S.

Kanbe, Junichiro; and Yoshinaga, Kazuo, to Canon Kabushiki Kaisha. Liquid crystal device. 4,712,872, 12-15-87, Cl. 350-333.000.

Kanbe, Junichiro; and Okada, Shinjiro, to Canon Kabushiki Kaisha. Liquid crystal optical device. 4,712,873, 12-15-87, Cl. 350-337.000.

Kanbe, Junichiro: *See—*
  Katagiri, Kazuharu; Yoshinaga, Kazuo; Okada, Shinjiro; and Kanbe, Junichiro, 4,714,323, Cl. 350-350.00S.
  Kuribayashi, Masaki; Nakazawa, Toshihiko; and Kanbe, Junichiro, 4,709,995, Cl. 350-350.00S.
  Ogawa, Kyosuke; Shirai, Shigeru; Kanbe, Junichiro; Saitoh, Keishi; Osato, Yoichi; and Misumi, Teruo, 4,636,450, Cl. 430-84.000.
  Ogawa, Kyosuke; Shirai, Shigeru; Saitoh, Keishi; Misumi, Teruo; and Kanbe, Junichiro, 4,637,972, Cl. 430-84.000.
  Ohkubo, Yukitoshi; Kaneko, Shuzo; and Kanbe, Junichiro, 4,671,642, Cl. 355-3.00R.
  Okada, Shinjiro; Katagiri, Kazuharu; and Kanbe, Junichiro, 4,639,089, Cl. 350-341.000.
  Okada, Shinjiro; and Kanbe, Junichiro, 4,681,404, Cl. 350-350.00S.
  Okada, Shinjiro; Kanbe, Junichiro; Tsuboyama, Akira; and Inaba, Yutaka, 4,712,877, Cl. 350-350.00S.
  Tsuboyama, Akira; Katagiri, Kazuharu; and Kanbe, Junichiro, 4,712,875, Cl. 350-344.000.

Kanbe, Masato: *See—*
  Yoshimura, Shohei; Yamaguchi, Toru; Hashiba, Masahiro; and Kanbe, Masato, 4,656,197, Cl. 521-56.000.
  Yoshimura, Shohei; Yamaguchi, Toru; Kanbe, Masato; and Kuwabara, Hideki, 4,704,239, Cl. 264-50.000.

Kanbe, Sadao: *See—*
  Matsuo, Nobutaka; Motoki, Masanobu; Itoh, Yoshitaka; Kanbe, Sadao; and Osafune, Haruo, 4,680,046, Cl. 65-17.000.
  Motoki, Masanobu; Matsuo, Nobutaka; Kanbe, Sadao; Osafune, Haruo; and Itoh, Yoshitaka, 4,680,048, Cl. 65-17.000.
  Osafune, Haruo; Kanbe, Sadao; Mori, Teiichiro; and Ikeji, Masahisa, 4,680,045, Cl. 65-17.000.
  Toki, Motoyuki; Kanbe, Sadao; Miyashita, Satoru; and Takeuchi, Tetsuhiko, 4,681,615, Cl. 65-18.100.

Kanbe, Yoshihiko, to Aida Engineering, Ltd. Process for manufacturing universal joint. 4,646,552, 3-3-87, Cl. 72-379.000.

Kanca, John, III. Photocuring device and method. 4,666,406, 5-19-87, Cl. 433-229.000.

Kanchev, Peter K., to Zavod za Elektronni Preobrazuvatelni Elementi. Electrostatic acoustic converter with stationary electrode having a progressively increasing surface resistance. 4,703,509, 10-27-87, Cl. 381-191.000.

Kanchiku, Hiroshi: *See—*
  Saito, Fuminari; Kajino, Jirou; and Kanchiku, Hiroshi, 4,672,47 Cl. 360-85.000.

Kanczarek, Thaddaeus-Anton, to Kraftwerk Union Aktiengesellschaft. Flange connection. 4,690,438, 9-1-87, Cl. 285-363.000.

Kanda, Atsushi; Takagi, Shunichi; and Kambe, Rokuro, to NGK Spark Plug Co., Ltd. Electronic component using a silicon carbide substrate and a method of making it. 4,657,825, 4-14-87, Cl. 428-627.000.

Kanda, Atsushi; Kitani, Kazuo; and Shirai, Kiichirou, to Fuji Electric Company, Ltd.; and Sumitomo Precision Products Co., Ltd. Boiling refrigerant-type cooling system. 4,705,102, 11-10-87, Cl. 165-104.3

Kanda, Hiroyuki, to Kabushiki Kaisha Toshiba. Seek operation control apparatus. 4,710,687, 12-1-87, Cl. 318-561.000.

Kanda, Hisashi; Nario, Susumu; Morifuji, Kazuhiko; Kawada, Yuji; Sakai, Takashi; Kawada, Takeshi; Shimada, Katsura; and Tsuneda, Mitsuo, to Mitsubishi Acetate Co., Ltd.; and Mitsubishi Rayon Company, Ltd. Method for forming warp beam of uniform diameter. 4,670,953, 6-9-87, Cl. 28-185.000.

Kanda, Kunio: *See—*
  Hattori, Seiichi; and Kanda, Kunio, 4,652,994, Cl. 364-200.000.

Kanda, Mamoru; Suzuki, Osamu; Ishiwata, Shunsuke; and Hayashi, Mitsuroh, to Chichibu Cement Kabushiki Kaisha. Apparatus for measuring viscosity. 4,679,427, 7-14-87, Cl. 73-54.000.

Kanda, Masao, to Pioneer Electronic Corporation. Noise reduction circuit for composite color video signals. 4,667,225, 5-19-87, Cl. 358-36.000.

Kanda, Minoru: *See—*
  Makimoto, Toshio; Nishimura, Sadahiko; Matsuo, Masayuki; Abiko, Toshio; Ishizaki, Hirohumi; Kanda, Minoru; Nanoya, Hidetsugu; and Komatsu, Mikio, 4,713,670, Cl. 343-700.0MS.

Kanda, Motoya: *See—*
  Yagasaki, Eriko; Kanda, Motoya; Mitsuyasu, Kiyoshi; and Sato, Yuji, 4,696,873, Cl. 429-59.000.

Kanda, Mutsumi, to Toyota Jidosha Kabushiki Kaisha. Cylinder head with coolant passage following squish area and of generally uniform cross sectional area. 4,690,105, 9-1-87, Cl. 123-41.82R.

Kanda, Mutsumi; Okumura, Takeshi; and Iwashita, Yoshihiro, to Toyota Jidosha Kabushiki Kaisha. Cylinder head with coolant passage passing around outside of cylinder head fixing bolt boss and directing coolant flow toward squish area cooling passage portion. 4,700,665, 10-20-87, Cl. 123-41.82R.

Kanda, Noboru; Yokoyama, Kenzou; Aoki, Ken-ichi; Akita, Shinji; Hatanaka, Masayuki; and Oda, Tatsuharu, to Nippon Kokan Kabushiki Kaisha; and Yushiro Chemical Industry Co., Ltd. Lubricant for the production of seamless tubes. 4,711,733, 12-8-87, Cl. 252-29.000.

Kanda, Nobuo; Horiike, Tetsuro; and Kondo, Mitsuru, to Kanzaki Paper Manufacturing Co., Ltd. Phthalide derivatives and recording system utilizing the same. 4,658,276, 4-14-87, Cl. 346-220.000.

Kanda, Nobuo, to Pioneer Electronic Corporation. Stereophonic receiving circuit providing improved switching characteristics between stereophonic and monaural modes. 4,691,357, 9-1-87, Cl. 381-10.000.

Kanda, Nobuo: *See—*
  Kondo, Mitsuru; Okimoto, Tomoyuki; and Kanda, Nobuo, 4,641,160, Cl. 346-220.000.
  Shioi, Shunsuke; Shinmitsu, Kazuyuki; Kanda, Nobuo; Kondo, Mitsuru; and Miyake, Makoto, 4,704,379, Cl. 503-211.000.
  Yokogawa, Tomohisa; Kanda, Nobuo; and Iwasaki, Hideki, 4,656,364, Cl. 307-112.000.

Kanda, Osamu, to Nippon Air Brake Co., Ltd. Brake signal conversion device for railway cars. 4,708,402, 11-24-87, Cl. 303-20.000.

Kanda, Osamu: *See—*
  Kuroda, Hiroshi; Nishimura, Tsukasa; Nishimura, Masakatsu; Hashimoto, Taiki; Kanda, Osamu; Nozawa, Shigeru; and Shibata, Kenji, 4,687,649, Cl. 423-242.000.

Kanda, Ryouji, to Tokai Rubber Industries, Ltd. Fluid-filled resilient bushing with circumferential orifice. 4,693,456, 9-15-87, Cl. 267-140.100.

Kanda, Shigeto, to Canon Kabushiki Kaisha. Tracking error signal detecting device with a two-beam system for use in an optical information memory. 4,712,206, 12-8-87, Cl. 369-46.000.

Kanda, Shoichi; Yanagita, Makoto; and Sekimoto, Yukihiko, to Nitto Chemical Industry Co., Ltd. Completion and workover fluids. 4,661,266, 4-28-87, Cl. 252-8.551.

Kanda, Shoichi; Yanagita, Makoto; and Sekimoto, Yukihiko, to Nitto Chemical Industry Co., Ltd. Stabilized fracturing fluid and method of stabilizing fracturing fluid. 4,681,690, 7-21-87, Cl. 252-8.551.

- Kanda, Shoichi: *See—*
  - Sekimoto, Yukihiko; Yanagita, Makoto; and Kanda, Shoichi, 4,691,013, Cl. 536-96.000.
- Kanda, Takeshi: *See—*
  - Tojyo, Shigeki; Uesaka, Tatsuo; Kawate, Yoshio; Iwaskai, Masayoshi; Horiuchi, Takefumi; Moritoki, Masato; Kanda, Takeshi; Fujikawa, Takao; and Kofune, Shigeo, 4,666,314, Cl. 374-131.000.
- Kanda Tekko Kabushiki Kaisha: *See—*
  - Hiroyasu, Fujikawa, 4,704,917, Cl. 74-475.000.
- Kanda, Yohichi: *See—*
  - Aoki, Katsumichi; Shida, Takafumi; Arabori, Hideo; Kumazawa, Satoru; Shimizue, Susumu; Watanave, Takeo; Kanda, Yohichi; Satake, Keigo; Yamazaki, Shiro; Shinkawa, Hiroyasu; and Chida, Tsuneaki, 4,690,704, Cl. 71-90.000.
- Kanda, Yoichi: *See—*
  - Aoki, Katsumichi; Shida, Takafumi; Kanda, Yoichi; Satake, Keigo; Shinkawa, Hiroyasu; and Yamazaki, Shiro, 4,650,515, Cl. 71-90.000.
- Kanda, Yuuichi: *See—*
  - Kishi, Hajimu; Sakakibara, Shinsuke; Ishikawa, Haruyuki; and Kanda, Yuuichi, 4,706,000, Cl. 318-568.000.
- Kandathil, Thomas V., to S. C. Johnson & Son, Inc. Enzyme prespotter composition stabilized with water insoluble polyester or polyether polyol. 4,711,739, 12-8-87, Cl. 252-139.000.
- Kandatsu, Kiyoshi: *See—*
  - Kohanawa, Akihiko; and Kandatsu, Kiyoshi, 4,635,012, Cl. 335-16.000.
- Kandelman, Allen, to Northrop Corporation. Distributed accumulator. 4,651,781, 3-24-87, Cl. 138-30.000.
- Kandetzke, Steven M.: *See—*
  - Araps, Constance J.; Kandetzke, Steven M.; and Takacs, Mark A., 4,654,223, Cl. 427-12.000.
  - Araps, Constance J.; Kandetzke, Steven M.; and Takacs, Mark A., 4,656,050, Cl. 427-12.000.
  - Araps, Constance J.; Kandetzke, Steven M.; and Takacs, Mark A., 4,699,803, Cl. 437-243.000.
- Kandler, Joachim: *See—*
  - Hausdorf, Jorg; Kandler, Joachim; Siekermann, Volker; and Getrost, Wilfried, 4,699,945, Cl. 524-512.000.
- Kandler, Richard L.; and Grode, Gerald A., to Baxter Travenol Laboratories, Inc. Solution for stabilizing red blood cells during storage. 4,675,185, 6-23-87, Cl. 424-101.000.
- Kandler, Richard L.: *See—*
  - Miripol, Jeffrey E.; Heaton, Andrew; and Kandler, Richard L., 4,704,352, Cl. 435-2.000.
- Kando, Akiyoshi: *See—*
  - Watanabe, Kozo; Kando, Akiyoshi; and Horita, Yoshiyuki, 4,711,020, Cl. 29-767.000.
- Kando, Gichi; and Tomoyori, Makoto, to Alps Electric Co., Ltd. Thermal head method of manufacturing. 4,683,646, 8-4-87, Cl. 29-611.000.
- Kando, Yasuhiko; Nakagomi, Tamihito; and Hasegawa, Shinji, to Hitachi, Ltd. Liquid crystal display device. 4,652,088, 3-24-87, Cl. 350-334.000.
- Kando, Yasuhiko; Nakagomi, Tamihito; and Hasegawa, Shinji, to Hitachi, Ltd. Liquid crystal display device. 4,653,861, 3-31-87, Cl. 350-337.000.
- Kando, Yasuhiko; Nakagomi, Tamihito; Hasegawa, Shinji; and Hanada, Yoshio, to Hitachi, Ltd. Liquid crystal display device. 4,653,865, 3-31-87, Cl. 350-346.000.
- Kando, Yasuhiko; Nakagomi, Tamihito; and Hasegawa, Shinji, to Hitachi, Ltd. Liquid crystal display device having a chiral additive and angularly displaced polarizers. 4,664,482, 5-12-87, Cl. 350-346.000.
- Kando, Yasuhiko: *See—*
  - Hasegawa, Shinji; Kando, Yasuhiko; and Nakagomi, Tamihito, 4,693,562, Cl. 350-337.000.
- Kandybowski, Steven J., to AMP Incorporated. Electrical connector for interconnecting arrays of conductive areas. 4,647,124, 3-3-87, Cl. 339-17.0CF.
- Kandybowski, Steven J.; and Mixon, James L., Jr., to AMP Incorporated. Electrical connector. 4,647,129, 3-3-87, Cl. 339-64.00M.
- Kandybowski, Steven J.: *See—*
  - Burgess, Christopher N.; Corman, Ned E.; Barkus, Lee A.; Kandybowski, Steven J.; and Sucheski, Matthew M., 4,653,826, Cl. 339-64.00M.
- Kandzia, Ulrich, to Sigri GmbH. Port for graphitization furnace. 4,639,930, 1-27-87, Cl. 373-120.000.
- Kane, Gordon R.: *See—*
  - Albaugh, Neil P.; and Kane, Gordon R., 4,641,105, Cl. 330-9.000.
- Kane Graphical Corporation: *See—*
  - Kane, Michael; and Hogan, Lawrence R., 4,637,153, Cl. 40-605.000.
  - Kane, Michael, 4,654,101, Cl. 156-250.000.
- Kane, Hugh; and Landow, Walt, to Joslyn Corporation. Auxiliary contact. 4,663,502, 5-5-87, Cl. 200-5.00R.
- Kane, James, to RCA Corporation. Method for making a photodetector with enhanced light absorption. 4,663,188, 5-5-87, Cl. 427-74.000.
- Kane, James, to Cordis Corporation. Optical pressure sensor for measuring blood pressure. 4,691,708, 9-8-87, Cl. 128-667.000.
- Kane, Jerome. Audible-physical coordination racket. 4,635,935, 1-13-87, Cl. 273-30.000.
- Kane, Lawrence M., to Daig Corporation. Introducer tool for endocardial screw-in lead. 4,646,755, 3-3-87, Cl. 128-785.000.
- Kane, Michael; and Hogan, Lawrence R., to Kane Graphical Corporation. Multiple configuration display sign system. 4,637,153, 1-20-87, Cl. 40-605.000.
- Kane, Michael, to Kane Graphical Corporation. Method of making a changeable display sign. 4,654,101, 3-31-87, Cl. 156-250.000.
- Kane, Patrick J., to Creative Metal Designs Ltd. Interlocking roof tile. 4,691,492, 9-8-87, Cl. 52-519.000.
- Kane, Peter E., to Polaroid Corporation. Part positioning apparatus and method. 4,712,974, 12-15-87, Cl. 414-757.000.
- Kane, Robert C., to Motorola, Inc. Microstrip circulator with ferrite and resonator in printed circuit laminate. 4,704,588, 11-3-87, Cl. 333-1.100.
- Kane, Thomas A., to Avco Corporation. Maneuvering air dispensed submunition. 4,635,553, 1-13-87, Cl. 102-384.000.
- Kane, Timothy J. Truck wheel lug nut protector apparatus. 4,639,045, 1-27-87, Cl. 301-37.00S.
- Kane, William T.: *See—*
  - Brothers, Jack A.; Kane, William T.; Brouneus, Harold A.; Layton, Margaret M.; and Walsh, Paul L., 4,659,435, Cl. 204-1.00T.
- Kaneaki, Tetsuhiko: *See—*
  - Takagi, Yoshiyuki; and Kaneaki, Tetsuhiko, 4,709,611, Cl. 84-1.220.
- Kanebo Bell-Touch, Ltd.: *See—*
  - Hashizume, Masatora; Kudoh, Eiichi; Fujiwara, Setuzo; and Shiomi, Hitomi, 4,707,893, Cl. 24-446.000.
- Kanebo Foods, Ltd.: *See—*
  - Murata, Hideo; Yamauchi, Masaaki; and Tanaka, Hajime, 4,674,228, Cl. 47-1.100.
- Kanebo Ltd.: *See—*
  - Nishida, Takeshi; Sano, Jyunji; and Nonaka, Toyokazu, 4,646,366, Cl. 2-108.000.
  - Ogawa, Yasuhiro; and Muramoto, Yasuo, 4,660,228, Cl. 2-167.000.
  - Ohtaka, Hiroshi; Kanazawa, Toshiro; Ito, Keizo; and Tsukamoto, Goro, 4,663,325, Cl. 514-255.000.
  - Ohtaka, Hiroshi; Kanazawa, Toshiro; Ito, Keizo; and Tsukamoto, Goro, 4,703,048, Cl. 514-255.000.
  - Satoh, Toshio; and Tsukamoto, Goro, 4,681,895, Cl. 514-535.000.
  - Uno, Toshio; Taguchi, Masahiro; Okuno, Toshimi; Kondo, Hirosato; Sotomura, Mikio; and Tsukamoto, Goro, 4,686,221, Cl. 514-254.000.
  - Watanabe, Nobuhisa; Iwamoto, Hisao; Nasuno, Toshihiro; and Sakamaki, Yoshio, 4,684,017, Cl. 206-235.000.
  - Yoshino, Koichiro; Seko, Norihiko; Yokota, Koichi; Ito, Keizo; and Tsukamoto, Goro, 4,659,726, Cl. 514-365.000.
- Kanebo Synthetic Fibers, Ltd.: *See—*
  - Ogawa, Yasuhiro; and Muramoto, Yasuo, 4,660,228, Cl. 2-167.000.
- Kanebo Textile, Ltd.: *See—*
  - Nishida, Takeshi; Sano, Jyunji; and Nonaka, Toyokazu, 4,646,366, Cl. 2-108.000.
- Kaneda, Akira: *See—*
  - Nomura, Junji; Ishibashi, Yuzuru; and Kaneda, Akira, 4,666,883, Cl. 502-402.000.
- Kaneda, Hiroshi; Mitsumori, Masahito; and Hamabe, Kenji, to Honda Giken Kogyo Kabushiki Kaisha. Vane holder for vane pump and method of making same. 4,664,609, 5-12-87, Cl. 418-137.000.
- Kaneda, Hiroshi; Takagi, Mitsuhiro; and Nakamura, Masaaki, to Matsushita Electric Works, Ltd. Air- and dust-proof cover for flush mounting wiring fixture. 4,685,581, 8-11-87, Cl. 220-3.200.
- Kaneda, Hiroshi: *See—*
  - Tsuji, Eiji; Okabe, Hirobumi; Ike, Hideo; Uratani, Fumihiro; Ota, Takashi; Kaneda, Hiroshi; Hanatate, Yuko; Hamada, Tadashi; and Oonishi, Hironobu, 4,668,585, Cl. 428-469.000.
- Kaneda, Kazuhisa: *See—*
  - Fujii, Atsushi; Kaneda, Kazuhisa; and Tokiya, Yoshihiro, 4,680,157, Cl. 264-180.000.
- Kaneda, Masahiro: *See—*
  - Kishida, Kazuo; Ueda, Kazuo; and Kaneda, Masahiro, 4,699,948, Cl. 525-85.000.
- Kaneda, Naoya: *See—*
  - Hiramatsu, Akira; Mukohjima, Hitoshi; Kaneda, Naoya; Okuno, Takuo; Seki, Hiroyuki; Tsukimoto, Takayuki; Izukawa, Kazuhiro; and Okumura, Ichiro, 4,692,651, Cl. 310-323.000.
  - Okumura, Ichiro; Tsukimoto, Takayuki; Okuno, Takuo; Izukawa, Kazuhiro; Seki, Hiroyuki; Mukohjima, Hitoshi; Kaneda, Naoya; and Hiramatsu, Akira, 4,692,650, Cl. 310-323.000.
  - Toyama, Masamichi; Kaneda, Naoya; and Fujibayashi, Kazuo, 4,682,886, Cl. 356-1.000.
- Kaneda, Takao; and Nakajima, Kazuo, to Fujitsu Limited. Semiconductor device for receiving light. 4,701,773, 10-20-87, Cl. 357-13.000.
- Kaneda, Takao: *See—*
  - Kobayashi, Masahiro; Yamazaki, Susumu; Mikawa, Takashi; Nakajima, Kazuo; and Kaneda, Takao, 4,656,494, Cl. 357-30.000.
- Kaneda, Tokuya: *See—*
  - Muraoka, Koji; Maeda, Takeshi; Takasago, Masahiro; and Kaneda, Tokuya, 4,650,332, Cl. 356-374.000.
- Kaneda, Tsuyoshi: *See—*
  - Yokoo, Sadao; Shimomura, Tadashi; Torisawa, Soichi; Dan, Masahiro; and Kaneda, Tsuyoshi, 4,634,270, Cl. 355-125.000.
- Kaneda, Yutaka: *See—*
  - Miyoshi, Masato; Kaneda, Yutaka; and Ohga, Juro, 4,683,590, Cl. 381-71.000.
- Kanegafuchi Chemical Industry Co., Ltd.: *See—*
  - Inoue, Shohei; and Aida, Takuzo, 4,654,417, Cl. 528-416.000.
  - Isayama, Katsuhiko; Hirose, Toshifumi; Iwahara, Takahisa; and Kawakubo, Fumio, 4,657,986, Cl. 525-407.000.
  - Ohshima, Hiroshi; and Kakimoto, Osamu, 4,668,833, Cl. 570-241.000.

- Kanegafuchi Kagaku Kogyo Kabushiki Kaisha: *See*—
  - Aoyama, Taizo; Hasegawa, Toshihiko; and Hosoi, Hideki, 4,670,509, Cl. 525-85.000.
  - Asada, Masahiro; and Azuma, Miyuki, 4,680,331, Cl. 528-501.000.
  - Furuyoshi, Shigeo; and Tani, Nobutaka, 4,654,420, Cl. 536-59.000.
  - Furuyoshi, Shigeo; and Tani, Nobutaka, 4,656,261, Cl. 536-59.000.
  - Gotou, Masana; Isshiki, Minoru; Uozumi, Shoji; Ohizumi, Masayuki; and Fushiki, Yasuo, 4,662,973, Cl. 156-307.400.
  - Hamakawa, Yoshihiro; Yamagishi, Hideo; and Tawada, Yoshihisa, 4,634,601, Cl. 427-39.000.
  - Hirose, Toshifumi; and Isayama, Katsuhiko, 4,665,127, Cl. 525-100.000.
  - Hosoi, Hideki; Hasegawa, Toshihiko; and Aoyama, Taizo, 4,645,795, Cl. 525-83.000.
  - Hosoi, Hideki; Hasegawa, Toshihiko; and Aoyama, Taizo, 4,690,977, Cl. 525-83.000.
  - Kakimoto, Osamu; and Nagoshi, Fumiya, 4,694,032, Cl. 523-334.000.
  - Maeda, Hirofumi; and Akamatsu, Naruhiko, 4,682,989, Cl. 55-23.000.
  - Maeda, Hirofumi; Nakamura, Kyoichi; and Hatamoto, Toshihiro, 4,686,087, Cl. 422-133.000.
  - Nagoshi, Toshiharu; Totsuka, Hidehiko; Taira, Takeshi; Gotoh, Youkichi; and Senuma, Kazuya, 4,645,249, Cl. 293-102.000.
  - Nakagawa, Masao, 4,665,102, Cl. 521-50.500.
  - Nakagawa, Masao, 4,703,066, Cl. 521-60.000.
  - Nakashima, Toshimitsu; Okada, Wataru; and Mitani, Toragoro, 4,713,443, Cl. 528-499.000.
  - Nanao, Tsutomu, and Eguchi, Tamiyuki, 4,668,299, Cl. 106-309.000.
  - Ohnishi, Michikazu, and Tani, Nobutaka, 4,696,670, Cl. 604-49.000.
  - Sakauchi, Takashi; Mohri, Fumihiko; Tomoda, Naohisa; and Nakatsuka, Satoshi, 4,702,852, Cl. 252-62.540.
  - Sakurai, Yoshifumi; and Saiki, Koji, 4,575,239, Cl. 428-607.000.
  - Samejima, Yasushi; Shiga, Minoru; Kano, Toshiji; and Kishi, Takamichi, 4,643,808, Cl. 204-98.000.
  - Sasaki, Makoto; Yamakawa, Masaki; Hirose, Toshifumi; and Isayama, Katsuhiko, 4,707,526, Cl. 525-404.000.
  - Takada, Jun; Yamaguchi, Minori; and Tawada, Yoshihisa, 4,665,278, Cl. 136-256.000.
  - Takahashi, Satomi; Inoue, Kenji; Yanagida, Yoshifumi; Ohashi, Takehisa; and Watanabe, Kiyoshi, 4,716,235, Cl. 548-533.000.
  - Tani, Nobutaka; and Hayashi, Tsuneo, 4,637,994, Cl. 502-404.000.
  - Tawada, Yoshihisa; Nakayama, Takehisa; Tai, Masahiko; and Ikuchi, Nozomu, 4,664,890, Cl. 422-186.050.
  - Tawada, Yoshihisa; and Tsuge, Kazunori, 4,701,344, Cl. 427-39.000.
  - Tomita, Haruo; Okamoto, Yasuo; and Yonezawa, Kazuya, 4,709,062, Cl. 549-553.000.
  - Tonoki, Satoshi; Tsunemi, Hidenari; Nishimura, Asaichi; and Abe, Kunihisa, 4,710,420, Cl. 428-212.000.
  - Tsuge, Kazunori; Tawada, Yoshihisa; and Hamakawa, Yoshihiro, 4,670,762, Cl. 357-2.000.
  - Uchino, Hayashi; Azuma, Masaaki; Ohashi, Takehisa; and Watanabe, Kiyoshi, 4,649,197, Cl. 544-258.000.
  - Uku, Kyouji; and Kato, Shinji, 4,680,320, Cl. 523-313.000.
  - Viscontini, Max; and Datta, Subir, 4,650,864, Cl. 536-124.000.
  - Wakabayashi, Hiroshi; and Kawamura, Joe, 4,657,978, Cl. 525-100.000.
  - Yamamoto, Kenji; Nakayama, Takehisa; and Tawada, Yoshihisa, 4,711,807, Cl. 428-334.000.
  - Yamane, Takehiko; Hashizume, Takuji; Yamashita, Katsuji; and Watanabe, Kiyoshi, 4,690,919, Cl. 514-183.000.
- Kanegafuchi Kogaku Kabushiki Kaisha: *See*—
  - Kawakubo, Fumio; Takanoo, Miyako; Yukimoto, Sadao; and Isayama, Katsuhiko, 4,687,818, Cl. 525-404.000.
- Kanegafuchi Kogaku Kogyo Kabushiki Kaisha: *See*—
  - Maeda, Hirofumi; Nakamura, Kyoichi; and Fukui, Hisatoshi, 4,687,641, Cl. 422-133.000.
- Kanegawa, Kiyoharu, to Rhythm Motor Parts Mfg. Co., Ltd. Ball joint socket. 4,681,475, 7-21-87, Cl. 403-40.000.
- Kanehara, Kenji; Huzino, Seizi; Miura, Kazuhiko; and Ohta, Minoru, to Nippon Soken, Inc. Direct-heated flow measuring apparatus having film resistor. 4,688,425, 8-25-87, Cl. 73-204.000.
- Kanehara, Kenji: *See*—
  - Miura, Kazuhiko; Hattori, Tadashi; Iwasaki, Yukio; Kohama, Tokio; and Kanehara, Kenji, 4,677,850, Cl. 73-204.000.
  - Miura, Kazuhiko; Hattori, Tadashi; Iwasaki, Yukio; Kohama, Tokio; and Kanehara, Kenji, 4,682,496, Cl. 73-204.000.
  - Miura, Kazuhiko; Hattori, Tadashi; Iwasaki, Yukio; Kohama, Tokio; and Kanehara, Kenji, 4,693,116, Cl. 73-204.000.
- Kanehira, Kenichi: *See*—
  - Kume, Hisao; Nishihara, Tokihiro; Shirasaka, Hiroharu; Kanehira, Kenichi; and Saita, Koji, 4,682,965, Cl. 445-37.000.
- Kanehira, Koichi; Shiono, Manzo; Fujita, Yoshiji; Nishida, Takashi; and Yamahara, Johji, to Kuraray Co., Ltd. 3,4-dihydrobenzopyran compounds and pharmaceutical composition containing the same. 4,681,890, 7-21-87, Cl. 514-333.000.
- Kanehira, Koichi: *See*—
  - Tamai, Yoshin; Yamamoto, Fumito; Shiono, Manzo; Kanehira, Koichi; Ozasa, Hiroshi; and Nomoto, Kaoru, 4,656,195, Cl. 514-772.000.
- Kanehisa, Takashi; and Yokomakura, Mitsunori, to Matsushita Electric Industrial Co., Ltd. Image display apparatus with deformable accelerating electrodes. 4,642,517, 2-10-87, Cl. 313-495.000.
- Kanehori, Keiichi: *See*—
  - Hiratani, Masahiko; Miyauchi, Katsuki; Ito, Yukio; Kanehori, Keiichi; Kirino, Fumiyoshi; and Kudo, Tetsuichi, 4,645,726, Cl. 429-191.000.
- Kaneiwa, Shinji; Takiguchi, Haruhisa; Yoshida, Toshihiko; and Matsu Sadayoshi, to Sharp Kabushiki Kaisha. Method for producing a semiconductor laser device having a buried heterostructure. 4,692,206, 9-8-87, Cl. 156-649.000.
- Kaneiwa, Shinji: *See*—
  - Matsui, Sadayoshi; Taneya, Mototaka; Takiguchi, Haruhisa; and Kaneiwa, Shinji, 4,679,200, Cl. 372-45.000.
  - Takiguchi, Haruhisa; Kaneiwa, Shinji; Matsui, Sadayoshi; and Taneya, Mototaka, 4,658,403, Cl. 372-96.000.
  - Yano, Seiki; Yamamoto, Saburo; Takiguchi, Haruhisa; and Kaneiwa, Shinji, 4,712,219, Cl. 372-45.000.
  - Yoshida, Toshihiko; Takiguchi, Haruhisa; Kaneiwa, Shinji; and Matsui, Sadayoshi, 4,716,570, Cl. 372-45.000.
- Kaneko, Akio: *See*—
  - Seike, Shoji; Totoki, Takao; and Kaneko, Akio, 4,689,445, Cl. 174-212.000.
- Kaneko, Akira: *See*—
  - Shoji, Toru; Sugiyama, Mitsuru; Takezawa, Makoto; Akiba, Yuichi; Kaneko, Akira; and Sato, Mituo, 4,673,596, Cl. 427-262.000.
- Kaneko, Atsumi, to Asahi Kogaku Kogyo Kabushiki Kaisha. Surveying instrument with image display unit. 4,682,218, 7-21-87, Cl. 358-93.000.
- Kaneko, Atsumi: *See*—
  - Hara, Masato; and Kaneko, Atsumi, 4,678,910, Cl. 250-237.00G.
  - Suzuki, Shinichi; Hara, Masato; Tsuda, Koji; Takasugi, Eiji; Kinba Toshifumi; and Kaneko, Atsumi, 4,702,008, Cl. 33-1.00T.
- Kaneko, Chikara; and Sato, Masayuki, to Chisso Corporation. Proces for producing an aldehydelactone. 4,672,132, 6-9-87, Cl. 549-311.000.
- Kaneko, Dentaro; and Meissner, David C., to Midrex International B.V. Rotterdam. Method of producing iron using rotary hearth and apparatus. 4,701,214, 10-20-87, Cl. 75-38.000.
- Kaneko, Eiji; Yanabu, Satoru; and Tamagawa, Tohoru, to Kabushiki Kaisha Toshiba. Electrodes of vacuum switch. 4,698,467, 10-6-87, Cl. 200-144.00B.
- Kaneko, Hideaki: *See*—
  - Yoshida, Atsunori; Kaneko, Hideaki; and Ogino, Takao, 4,650,525, Cl. 148-6.200.
- Kaneko, Hideo: *See*—
  - Inoue, Kiyoshi; and Kaneko, Hideo, 4,695,333, Cl. 148-306.000.
- Kaneko, Hiroko: *See*—
  - Koyanagi, Mitsumasa; and Kaneko, Hiroko, 4,701,349, Cl. 427-93.000.
  - Miyake, Kiyoshi; and Kaneko, Hiroko, 4,699,471, Cl. 350-357.000.
- Kaneko, Hiroshi: *See*—
  - Asahi, Tetsuya; Kaneko, Hiroshi; Sakai, Yasushi; Kiyohara, Akio; and Iwashita, Tooru, 4,680,349, Cl. 526-62.000.
- Kaneko, Ichiro: *See*—
  - Shimizu, Toshihide; Kaneko, Ichiro; Watanabe, Mikio; and Shimakura, Yoshiteru, 4,708,890, Cl. 427-230.000.
- Kaneko, Junya, to Shoketsu Kinzoku Kogyo Kabushiki Kaisha. Pneumatic cylinder motor with end-of-travel cushioning mechanism. 4,700,611, 10-20-87, Cl. 91-405.000.
- Kaneko, Katsuaki: *See*—
  - Take, Takao; Kaneko, Katsuaki; Kusunoki, Kokyo; and Ichiba, Toshinobu, 4,645,548, Cl. 156-39.000.
- Kaneko, Katsuyoshi, to Maruwa Echo Co., Ltd. Collapsible luggage. 4,655,329, 4-7-87, Cl. 190-107.000.
- Kaneko, Katsuyuki: *See*—
  - Nishimichi, Yoshito; Uya, Masaru; and Kaneko, Katsuyuki, 4,709,173, Cl. 307-243.000.
- Kaneko, Kazuo; Suzuka, Susumu; Gonda, Michihiro; and Kanasugi, Mikiko, to Hodogaya Chemical Co., Ltd. Fluoran compounds. 4,694,088, 9-15-87, Cl. 549-226.000.
- Kaneko, Kazuyuki: *See*—
  - Monno, Asao; Watanabe, Kiyoo; and Kaneko, Kazuyuki, 4,695,729, Cl. 250-358.100.
- Kaneko, Kenji, to Asahi Precision Co. Ltd. Automatic compensator for compensating collimation error due to two-directional inclination in surveying instruments. 4,681,438, 7-21-87, Cl. 356-143.000.
- Kaneko, Kenji: *See*—
  - Maeyama, Tsutomu; Kaneko, Kenji; and Ishii, Shigeru, 4,702,904, Cl. 424-52.000.
- Kaneko, Kiyotaka; Nakadai, Katsuo; Miyake, Izumi; and Oda, Kazuya, to Fuji Photo Film Co., Ltd. Tracking apparatus for rotational magnetic recording medium with envelope level correction. 4,677,506, 6-30-87, Cl. 360-77.000.
- Kaneko, Kiyotaka: *See*—
  - Miyake, Izumi; Kaneko, Kiyotaka; Nakadai, Katsuo; and Oda, Kazuya, 4,689,700, Cl. 360-77.000.
  - Miyake, Izumi; Kaneko, Kiyotaka; and Oda, Kazuya, 4,701,813, Cl. 360-71.000.
- Kaneko, Koichi; and Hanya, Masado, to Seikosha Co., Ltd. Moon phase display clock. 4,692,031, 9-8-87, Cl. 368-18.000.
- Kaneko, Kouichi: *See*—
  - Seki, Nagataka; and Kaneko, Kouichi, 4,667,283, Cl. 363-95.000.
- Kaneko, Kouji; Horio, Motohiko; Kobayashi, Naoki; and Okada, Fujio, to Fuji Photo Optical Co., Ltd. Rotary shutter. 4,669,841, 6-2-87, Cl. 352-216.000.
- Kaneko, Kunio, to NEC Corporation. Radio communication system. 4,656,645, 4-7-87, Cl. 375-40.000.
- Kaneko, Kyoichi, to Daiwa Seiko Inc. Spinning reel having electronic line tension display means. 4,650,161, 3-17-87, Cl. 242-84.50A.

Kaneko, Kyoichi, to Daiwa Seiko, Inc. Drag force measuring device for spinning reels. 4,702,431, 10-27-87, Cl. 242-84.50A.

Kaneko, Kyoichi; and Yamaguchi, Nobuyuki, to Daiwa Seiko Inc. Spinning reel brake for fishing. 4,702,432, 10-27-87, Cl. 242-84.50A.

Kaneko, Makoto; Ogura, Ichiro; Asahina, Hiroshi; and Yasuhara, Hiroshi, to Kabushiki Kaisha Toshiba. Image processor with automatic setting of window width and level for individual blocks of the image. 4,688,175, 8-18-87, Cl. 364-414.000.

Kaneko, Makoto: *See—*
  Itou, Shouichi; Kaneko, Makoto; and Yasuhara, Hiroshi, 4,644,395, Cl. 358-111.000.

Kaneko, Masaharu: *See—*
  Arisawa, Takashi; Maruyama, Yoichiro; Shiba, Koreyuki; Niwa, Toshio; Kaneko, Masaharu; and Ono, Hitoshi, 4,646,309, Cl. 372-53.000.

Kaneko, Masahide; Hatori, Yoshinori; and Miyasato, Tsutomu, to Kokusai Denshin Denwa Co., Ltd. Motion vector detection system of a moving object on a screen. 4,691,230, 9-1-87, Cl. 358-105.000.

Kaneko, Masahide: *See—*
  Hatori, Yoshinori; and Kaneko, Masahide, 4,636,862, Cl. 358-166.000.
  Hatori, Yoshinori; and Kaneko, Masahide, 4,677,479, Cl. 358-135.000.

Kaneko, Masahiko; Kunita, Masao; and Ohsawa, Seiichi, to Citizen Watch Co., Ltd. Method of dot-printing underlines. 4,650,348, 3-17-87, Cl. 400-22.000.

Kaneko, Masahiko: *See—*
  Nakai, Toshihiko; and Kaneko, Masahiko, 4,640,635, Cl. 400-664.000.
  Tamada, Hitoshi; Kaneko, Masahiko; Okamoto, Tsutomu; and Yamada, Toshiro, 4,642,795, Cl. 365-10.000.

Kaneko, Masakatsu; Kimura, Misako; Murofushi, Yoshinobu; Yamazaki, Mitsuo; Iwata, Nobuyoshi; and Nakagawa, Fumio, to Sankyo Company Limited. Griseolic acid derivatives, and their use as enzyme inhibitors. 4,634,706, 1-6-87, Cl. 514-262.000.

Kaneko, Masaru: *See—*
  Fujiyasu, Hiroshi; Karosawa, Yoshiki; and Kaneko, Masaru, 4,662,981, Cl. 156-610.000.
  Fujiyasu, Hiroshi; Karosawa, Yoshiki; and Kaneko, Masaru, 4,668,480, Cl. 422-247.000.

Kaneko, Masatoshi, to Kabushiki Kaisha Kaneko Seisakusho. Winch for elevator. 4,688,660, 8-25-87, Cl. 187-20.000.

Kaneko, Minoru: *See—*
  Mikiya, Toshio; Kaneko, Minoru; and Kazama, Yasuo, 4,681,172, Cl. 173-139.000.

Kaneko, Nagao; Nakamura, Nanao; Koyama, Masao; Saitoh, Shiroh; and Honda, Hiroki, to Kabushiki Kaisha Toshiba. Polymeric piezoelectric ultrasonic probe. 4,651,310, 3-17-87, Cl. 367-140.000.

Kaneko, Nobutaka: *See—*
  Yamamoto, Hidehiko; and Kaneko, Nobutaka, 4,666,577, Cl. 204-183.300.

Kaneko, Nobuyoshi: *See—*
  Inukai, Yuzo; Naruse, Yasuhito; Nakayama, Takao; and Kaneko, Nobuyoshi, 4,647,475, Cl. 427-44.000.

Kaneko, Norio; and Nibe, Masahito, to Canon Kabushiki Kaisha. Composition for dielectric porcelain and dielectric porcelain and capacitor by use of said composition. 4,697,222, 9-29-87, Cl. 361-321.000.

Kaneko, Rokusaburo; and Takenaka, Yuji, to Fuji Photo Film Co., Ltd. Exposure correction method. 4,643,562, 2-17-87, Cl. 355-56.000.

Kaneko, Ryoichi: *See—*
  Sasada, Tetsuo; Sato, Takeshi; Urushidani, Haruo; Hisano, Katsukuni; Kaneko, Ryoichi; Ikeuchi, Kazuo; and Tsuji, Kunio, 4,662,820, Cl. 415-170.00R.
  Sato, Kazuo; Shiohata, Kouki; Matsushita, Osami; Kikuchi, Katsuaki; Takasumi, Masakazu; Sato, Ichiya; and Kaneko, Ryoichi, 4,685,335, Cl. 73-660.000.
  Shibashita, Naoaki; Toriya, Hajime; Shimomura, Kiyoshi; Urushidani, Haruo; and Kaneko, Ryoichi, 4,688,385, Cl. 60-646.000.
  Shiohata, Kouki; Satoh, Kazuo; Ohmori, Motoji; Kikuchi, Katsuaki; and Kaneko, Ryoichi, 4,635,210, Cl. 364-508.000.

Kaneko, Satoshi: *See—*
  Ohashi, Minoru; and Kaneko, Satoshi, 4,702,999, Cl. 430-445.000.

Kaneko, Shigeru: *See—*
  Kiriu, Yoshio; Kaneko, Shigeru; and Kosuge, Hiroshi, 4,692,922, Cl. 371-37.000.

Kaneko, Shinobu: *See—*
  Haga, Minoru; Kaneko, Shinobu; Ikawa, Shoji; Murayama, Kimimasa; Nakamura, Yasuhide; and Saito, Mitsuo, 4,691,551, Cl. 72-88.000.
  Kondo, Kunio; Haga, Katutoshi; Haga, Minoru; Kato, Yasuo; and Kaneko, Shinobu, 4,642,005, Cl. 409-232.000.
  Kondo, Kunio; Haga, Katutoshi; Kurumiya, Tadashi; Haga, Minoru; Kato, Yasuo; and Kaneko, Shinobu, 4,643,623, Cl. 409-232.000.
  Murayama, Kimimasa; Ikawa, Shoji; and Kaneko, Shinobu, 4,633,696, Cl. 72-88.000.

Kaneko, Shozo: *See—*
  Fujimura, Hiroshi; Kobayashi, Hideharu; Kaneko, Shozo; Iwanaga, Atsumasa; and Ichinari, Joji, 4,676,425, Cl. 228-45.000.
  Nishi, Toshiro; Murakami, Nobuaki; Ueda, Kenji; Shirakawa, Seiichi; Notomi, Akira; Hisamatsu, Kenichi; and Kaneko, Shozo, 4,686,158, Cl. 429-26.000.

Kaneko, Shuzo: *See—*
  Ando, Yujiro; and Kaneko, Shuzo, 4,692,779, Cl. 346-153.100.
  Ohkubo, Yukitoshi; Kaneko, Shuzo; and Kanbe, Junichiro, 4,671,642, Cl. 355-3.00R.
  Tamura, Yasuyuki; Kaneko, Shuzo; and Takahashi, Tohru, 4,649,094, Cl. 430-126.000.

Kaneko, Syuzo: *See—*
  Kanbe, Junichiro; Katagiri, Kazuharu; and Kaneko, Syuzo, 4,655,561, Cl. 350-350.00S.

Kaneko, Tadashi: *See—*
  Hotate, Makoto; Kaneko, Tadashi; Nishikawa, Toshio; Nakazumi, Tadataka; and Takeuchi, Nobuo, 4,682,044, Cl. 290-40.00B.
  Mamiya, Kiyotaka; Kaneko, Tadashi; Fujimoto, Misao; and Nishimura, Hirofumi, 4,646,522, Cl. 60-602.000.
  Matsuura, Masahiko; Kaneko, Tadashi; Kaide, Tadayoshi; and Hotate, Makoto, 4,633,841, Cl. 123-492.000.
  Shirose, Meizo; Takahashi, Jiro; Tsuchiya, Hiroshi; and Kaneko, Tadashi, 4,652,509, Cl. 430-110.000.
  Takeuchi, Nobuo; Hotate, Makoto; Kaneko, Tadashi; and Nishikawa, Toshio, 4,665,878, Cl. 123-492.000.

Kaneko, Takanobu: *See—*
  Fujishiro, Takeshi; Takahashi, Sadahiro; and Kaneko, Takanobu, 4,696,489, Cl. 280-707.000.

Kaneko, Takaoki: *See—*
  Fukuta, Kenji; Kaneko, Takaoki; and Takahashi, Yoshinobu, 4,678,644, Cl. 422-186.050.
  Fukuta, Kenji; Kaneko, Takaoki; and Takahashi, Yoshinobu, 4,690,097, Cl. 118-723.000.

Kaneko, Takashi, to NEC Corporation. Data interpolating circuit using a two data word memory. 4,639,920, 1-27-87, Cl. 371-31.000.

Kaneko, Takashi, to NEC Corporation. Pulse number detection circuit. 4,683,385, 7-28-87, Cl. 307-518.000.

Kaneko, Takashi: *See—*
  Iri, Eiji; Kaneko, Takashi; Shintani, Takeshi; Mio, Kotaro; and Ijiri, Yasuo, 4,711,523, Cl. 350-96.230.
  Yoshimura, Isao; Hata, Hideo; and Kaneko, Takashi, 4,701,496, Cl. 525-240.000.

Kaneko, Takasi: *See—*
  Uramoto, Yoshihito; Kaneko, Takasi; and Hirose, Toshiro, 4,642,011, Cl. 411-258.000.

Kaneko, Takeru: *See—*
  Yoshino, Hiroshi; Tsuchiya, Yutaka; Kaneko, Takeru; Nakazawa, Takahiro; Ikeda, Masuhiro; Araki, Shin; Yamatsu, Kiyomi; Tachibana, Shinro; and Arakawa, Yoshihiro, 4,707,468, Cl. 514-16.000.

Kaneko, Takushi; Wong, Henry S. L.; and Doyle, Terrence W., to Bristol-Myers Company. Acylamino mitosanes. 4,642,352, 2-10-87, Cl. 548-422.000.

Kaneko, Takushi; and Wong, Henry S. L., to Bristol-Myers Company. Process for preparation of N⁷-amidino substituted mitomycin C derivatives. 4,652,644, 3-24-87, Cl. 544-58.500.

Kaneko, Tetsuya: *See—*
  Kitahara, Nobuko; Takamatsu, Osamu; Kaneko, Tetsuya; and Sugata, Masao, 4,636,038, Cl. 350-339.00R.
  Tanaka, Kiyoshi; Koga, Yoshihiro; Saeki, Masaru; Kaneko, Tetsuya; and Kawakita, Tetsuya, 4,663,048, Cl. 210-638.000.

Kaneko, Tomomichi; Suzuki, Shigeyasu; and Arakawa, Shouji, to Hitachi, Ltd. Air conditioner having a temperature dependent control device. 4,698,981, 10-13-87, Cl. 62-180.000.

Kaneko, Toshie: *See—*
  Mochizuki, Noritaka; Jin, Chikara; and Kaneko, Toshie, 4,644,155, Cl. 250-227.000.

Kaneko, Toshiki: *See—*
  Watanabe, Ryuji; Minemura, Tetsuro; Ito, Tetsuo; Ando, Hisashi; Maeda, Yoshihito; Nagai, Masaichi; Shimizu, Seiki; Konno, Kiyoshi; and Kaneko, Toshiki, 4,651,172, Cl. 346-135.100.

Kaneko, Toshio: *See—*
  Kanno, Fuchio; Kobayashi, Kazuo; Sakamoto, Koji; Kaneko, Toshio; and Yasuda, Wataru, 4,656,964, Cl. 118-648.000.
  Mirua, Konoe; Takimoto, Hiroshi; Kaneko, Toshio; Ohta, Tokuya; Kobayashi, Masatsune; and Eida, Tsuyoshi, 4,683,002, Cl. 106-20.000.
  Sakamoto, Koji; Kaneko, Toshio; Kanno, Fuchio; and Yasuda, Wataru, 4,674,439, Cl. 118-657.000.
  Takeda, Fuchio; Matsushiro, Hiroyuki; Kobayashi, Kazuo; and Kaneko, Toshio, 4,710,015, Cl. 355-3.0DD.

Kaneko, Toshiyuki: *See—*
  Endoh, Koichi; Kaneko, Toshiyuki; Yaoi, Hideo; Aso, Seiji; Obana, Yasuo; and Takahama, Hideyuki, 4,661,151, Cl. 75-53.000.

Kaneko, Tsutomu: *See—*
  Murai, Masami; Hashio, Masanori; Tsuyuki, Yousuke; and Kaneko, Tsutomu, 4,675,814, Cl. 364-300.000.

Kaneko, Yoichi; Sekine, Kenji; and Funaki, Haruhiko, to Hitachi, Ltd. Microwave solid-state amplifier. 4,647,869, 3-3-87, Cl. 330-286.000.

Kaneko, Yoji: *See—*
  Haganuma, Tomoyuki; and Kaneko, Yoji, 4,688,100, Cl. 358-261.000.

Kaneko, Yoshiaki; Saito, Toshiyuki; and Okubo, Naofumi, to Fujitsu Limited. Cavity resonator coupling type power distributor/power combiner comprising coupled input and output cavity resonators. 4,686,494, 8-11-87, Cl. 333-137.000.

Kaneko, Yoshihiro; Tochikubo, Osamu; and Yokoi, Hiroyuki, to Takeda Medical Company Limited. Method of automatically measuring blood pressure, and apparatus therefor. 4,660,567, 4-28-87, Cl. 128-682.000.

Kaneko, Yoshikazu: *See—*
Shioiri, Hisanori; Kiuchi, Mitsuhiro; Takayama, Mineo; Homma, Toshio; Nagasaka, Hiroshi; and Kaneko, Yoshikazu, 4,657,775, Cl. 427-38.000.
Kaneko, Yoshio: *See—*
Arakawa, Masaru; and Kaneko, Yoshio, 4,660,871, Cl. 292-81.000.
Kaneko, Youichi: *See—*
Nakaso, Akishi; Kaneko, Youichi; Okamura, Toshiro; and Yamanoi, Kiyoshi, 4,643,793, Cl. 156-306.600.
Kaneko, Yujiro; and Tadano, Eiji, to Fuji Photo Film Co., Ltd. Moire simulator and method of using same. 4,663,850, 5-12-87, Cl. 33-1.0BB.
Kaneko, Yujiro: *See—*
Nakamura, Hitoshi; Kaneko, Yujiro; Sawada, Yasuo; Machida, Hajime; Omi, Fumiya; and Watada, Atsuyuki, 4,690,861, Cl. 428-623.000.
Kaneko, Yutaka; Kimura, Toshihiko; and Kadokura, Kenji, to Konishiroku Photo Industry Co., Ltd. Silver halide color photographic material containing a magenta color image-forming coupler. 4,639,415, 1-27-87, Cl. 430-558.000.
Kaneko, Yutaka, to Ricoh Company, Ltd. Lasing device. 4,661,959, 4-28-87, Cl. 372-34.000.
Kaneko, Yutaka, to Tetra Pak International AB. Device for altering a physical angle formed to commodity to be transferred. 4,669,699, 6-2-87, Cl. 248-652.000.
Kaneko, Yutaka; Kadokura, Kenji; Kimura, Toshihiko; Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; and Shinozaki, Kaoru, to Konishiroku Photo Industry Co., Ltd. Silver halide color photographic material containing a 1H-pyrazolo [3,2-C]-S-triazole derived magenta coupler. 4,675,280, 6-23-87, Cl. 430-558.000.
Kanemaki, Hirofumi: *See—*
Takikawa, Kei; and Kanemaki, Hirofumi, 4,656,468, Cl. 340-744.000.
Kanemasa, Akira, to NEC Corporation. Method and apparatus for cancelling echo. 4,707,824, 11-17-87, Cl. 370-32.100.
Kanematsu, Etsuro: *See—*
Kamiyama, Akira; Yamada, Masahide; Kitada, Katsuyoshi; Otuka, Masayoshi; and Kanematsu, Etsuro, 4,700,026, Cl. 200-19.00R.
Kanematsu, Isao: *See—*
Saeki, Hideki; and Kanematsu, Isao, 4,656,728, Cl. 29-568.000.
Saeki, Hideki; and Kanematsu, Isao, 4,658,493, Cl. 29-568.000.
Kanemitsu, Kimihiro: *See—*
Nishikawa, Yoshihiro; Kanemitsu, Kimihiro; Katori, Tatsuhiko; Shibata, Akihiro; and Kukita, Kenichi, 4,684,719, Cl. 536-119.000.
Kanemitsu, Shinji; and Nitanda, Hiroshi, to Canon Kabushiki Kaisha. Molded article with flexible hinge. 4,636,065, 1-13-87, Cl. 355-75.000.
Kanemitsu, Shinji; and Toriumi, Mototada, to Canon Kabushiki Kaisha. Sheet feeding apparatus. 4,676,498, 6-30-87, Cl. 271-251.000.
Kanemitsu, Shinji: *See—*
Mizutani, Morikazu; Onoda, Shigeyoshi; and Kanemitsu, Shinji, 4,705,384, Cl. 355-3.00R.
Nishino, Fumio; Onoda, Shigeyoshi; Nomura, Akihiro; Mizutani, Morikazu; Kanemitsu, Shinji; and Toriumi, Mototada, 4,714,337, Cl. 355-3.0DR.
Kanemitsu, Yoichi: *See—*
Kondo, Hideki; Shimizu, Noburu; and Kanemitsu, Yoichi, 4,688,989, Cl. 415-122.00R.
Kanemitsu, Yukio, to Kabushiki Kaisha Kanemitsu. Method of making poly-V pulleys. 4,633,557, 1-6-87, Cl. 29-159.00R.
Kanemori, Kaoru: *See—*
Kuwabara, Takashi; Shimura, Yoshiharu; Hayashi, Yuko; Hanamure, Toshiyuki; Kanemori, Kaoru; and Yamakawa, Yoshihiro, 4,711,098, Cl. 62-441.000.
Kanemoto, Kuniaki: *See—*
Nakagawa, Mikio; Sato, Koichiro; Kanemoto, Kuniaki; and Nishimura, Akito, 4,670,349, Cl. 428-516.000.
Kanemoto, Takashi: *See—*
Miyazaki, Yasuko; Matsuoka, Mikiharu; Horyu, Sakae; Kanemoto, Takashi; and Katayama, Hirohiko, 4,651,299, Cl. 364-900.000.
Kanemoto, Yoshitaka: *See—*
Ishige, Masafumi; Kanemoto, Yoshitaka; Yokoyama, Tamio; and Sato, Ichitaro, 4,661,842, Cl. 358-36.000.
Kanemura, Shoji, to Canon Kabushiki Kaisha. Motor controlling system. 4,707,649, 11-17-87, Cl. 318-685.000.
Kanenari, Shigeaki: *See—*
Shiomi, Makoto; Miura, Kuniaki; Fukushima, Isao; Moro, Eiji; and Kanenari, Shigeaki, 4,667,168, Cl. 331-1.00R.
Kaneoya, Tatsuo: *See—*
Kotera, Norio; Uegaki, Masatoshi; Yoshimura, Masakatsu; Masaki, Shinzaburo; Kaneoya, Tatsuo; Miyaoka, Takashi; Maegawa, Yuzo; and Fukasawa, Akira, 4,695,407, Cl. 760-378.000.
Maegawa, Yuzo; Takahashi, Yukoh; Okino, Eizo; Kaneoya, Tatsuo; Okamura, Haruki; Yachigo, Shinichi; and Ishii, Tamaki, 4,670,488, Cl. 524-103.000.
Takahashi, Yukoh; Kaneoya, Tatsuo; Okino, Eizo; Maegawa, Yuzo; Okamura, Haruki; Yachigo, Shinichi; and Ishii, Tamaki, 4,670,489, Cl. 524-103.000.
Kanerva, Heikki: *See—*
Tammisalo, Erkki; Kanerva, Heikki; Aarnio, Jaakko; Wederhorn, Markku; and Laner, Kai, 4,646,335, Cl. 378-38.000.
Tammisalo, Erkki; Kanerva, Heikki; Aarnio, Jaakko; Wederhorn, Markku; and Laner, Kai, 4,683,581, Cl. 378-38.000.
Kanesaka, Hiroshi, to Usui Kokusai Sangyo Kabushiki Kaisha; and Kabushiki Kaisha Kanesaka Gijutsu Kenkyusho. Accumulation-type fuel injector. 4,674,688, 6-23-87, Cl. 239-533.800.
Kanesaki, Tateo; Utsumi, Shigeo; and Tomitaka, Kichinojyo, to Diafoil Company, Limited. Polyester film for magnetic recording media. 4,680,217, 7-14-87, Cl. 428-141.000.
Kanesaki, Tateo: *See—*
Utsumi, Shigeo; Kanesaki, Tateo; Kagiyama, Takashi; Otonari, Satoshi; Ikushima, Koichiro; and Okumura, Norio, 4,708,902, Cl. 428-141.000.
Kaneshige, Isao: *See—*
Satoh, Kenji; Kaneshige, Isao; and Ikari, Kyoichiro, 4,684,564, Cl. 428-216.000.
Kaneshige, Noritsugu: *See—*
Kobayashi, Takuma; Kitagawa, Hironobu; Kaneshige, Noritsugu; and Makimura, Osamu, 4,680,345, Cl. 525-437.000.
Kaneshiro, Tsuneo, to United States of America, Agriculture. Enhancement of nitrogen-fixation with rhizobial tan variants. 4,711,656, 12-8-87, Cl. 71-7.000.
Kaneta, Keisuke, to Suzuki Jidosha Kogyo Kabushiki Kaisha. Method of controlling a fuel injection apparatus. 4,648,371, 3-10-87, Cl. 123-492.000.
Kaneta, Keisuke, to Suzuki Jidosha Kogyo Kabushiki Kaisha. Method of controlling fuel injection. 4,681,079, 7-21-87, Cl. 123-491.000.
Kanetsuna, Nobumitsu: *See—*
Kawasaki, Hiroaki; and Kanetsuna, Nobumitsu, 4,688,029, Cl. 340-754.000.
Kaneyasu, Akira: *See—*
Yamamoto, Kosei; Kaneyasu, Akira; and Arita, Yo, 4,681,863, Cl. 501-108.000.
Kaneyasu, Masayoshi; Arima, Hideo; Ito, Mitsuko; Iwanaga, Shoichi; Sato, Nobuo; Noro, Takanobu; Ikagami, Akira; and Isogai, Tokio, to Hitachi, Ltd. Gas detecting apparatus. 4,638,443, 1-20-87, Cl. 364-497.000.
Kaneyuki, Kazutoshi, to Mitsubishi Denki Kabushiki Kaisha. Accessory drive device in engine. 4,643,046, 2-17-87, Cl. 74-752.00C.
Kaneyuki, Kazutoshi, to Mitsubishi Denki Kabushiki Kaisha. Generating apparatus with an adjustable speed change mechanism. 4,651,082, 3-17-87, Cl. 322-29.000.
Kaneyuki, Kazutoshi, to Mitsubishi Denki Kabushiki Kaisha. Auxiliary device driving unit driven by an engine. 4,653,349, 3-31-87, Cl. 74-796.000.
Kaneyuki, Kazutoshi. Accessory drive device in engine. 4,662,244, 5-5-87, Cl. 74-752.00B.
Kaneyuki, Kazutoshi, to Mitsubishi Denki Kabushiki Kaisha. Auxiliary device driving unit driven by a vehicle engine. 4,679,456, 7-14-87, Cl. 74-752.00D.
Kaneyuki, Kazutoshi, to Mitsubishi Denki Kabushiki Kaisha. Accessory drive device in engine. 4,685,355, 8-11-87, Cl. 74-796.000.
Kanezashi, Takeshi, to Sanden Corporation. Beverage vending machine. 4,649,809, 3-17-87, Cl. 99-290.000.
Kanezashi, Takeshi: *See—*
Kokubun, Yoshikazu; Hatori, Kunitake; and Kanezashi, Takeshi, 4,648,313, Cl. 99-289.00R.
Kang, Chun-Ming: *See—*
Kang, Lau-Wan, 4,657,309, Cl. 301-37.0SS.
Kang, Doohee: *See—*
Givens, Edwin N.; and Kang, Doohee, 4,675,024, Cl. 44-51.000.
Kang, Henry R., to Xerox Corporation. Waterfast ink jet compositions and process. 4,659,382, 4-21-87, Cl. 106-22.000.
Kang, Kwon J. Process for manufacturing an herb tea from the leaves of Ginko, Persimmon and Pine. 4,683,140, 7-28-87, Cl. 426-597.000.
Kang, Lau-Wan, to Lin, Yi-Ping; and Kang, Chun-Ming. Wire wheel cover. 4,657,309, 4-14-87, Cl. 301-37.0SS.
Kang, Seoh Won, to Morisawa & Co., Ltd. Copolymers of benzotriazol monomers with maleic or fumaric acid derivatives and polymeric material compositions. 4,686,268, 8-11-87, Cl. 526-259.000.
Kang, Won H.; and Chung, Ki H. Moldable friction element composition and method of making the same. 4,654,381, 3-31-87, Cl. 523-149.000.
Kang, Young W. Assembly of tag pins with a cap avoiding an entwinement between heads. 4,633,605, 1-6-87, Cl. 40-24.000.
Kang, Yun H.; Im, Wha S.; and Lee, Kil S., to Samsung Electronics Co., Ltd. Refrigerator cooling air flow control apparatus. 4,642,998, 2-17-87, Cl. 62-187.000.
Kangaroos U.S.A., Inc.: *See—*
Caldeira, Adelino, 4,642,914, Cl. 36-50.000.
Gamm, Robert J., 4,638,579, Cl. 36-136.000.
Gamm, Robert J., 4,644,673, Cl. 36-136.000.
Gamm, Robert J., 4,697,363, Cl. 36-136.000.
Tonkel, Raymond F.; and Gross, Alexander L., 4,656,760, Cl. 36-28.000.
Wasserman, Albert, 4,697,362, Cl. 36-136.000.
Kangas, Lauri V. M.: *See—*
Toivola, Reijo J.; Karjalainen, Arto J.; Kurkela, Kauko O. A.; Soderwall, Marja-Liisa; Kangas, Lauri V. M.; Blanco, Guillermo L.; and Sunduiqst, Hannu K., 4,696,949, Cl. 514-648.000.
Kangawa, Kenji: *See—*
Matsuo, Hisayuki; and Kangawa, Kenji, 4,656,158, Cl. 514-12.000.
Matsuo, Hisayuki; and Kangawa, Kenji, 4,657,891, Cl. 514-11.000.
Kangyo Denkikiki Kabushiki Kaisha: *See—*
Sudo, Michio, 4,644,643, Cl. 29-845.000.
Sudo, Michio; Hotta, Toshihiro; and Imazato, Minoru, 4,665,331, Cl. 310-68.00R.
Kani, Tetsuo, to Sony Corporation. Time base corrector. 4,688,111, 8-18-87, Cl. 360-36.200.
Kania, Charles M.: *See—*
Das, Suryya K.; and Kania, Charles M., 4,692,503, Cl. 526-301.000.

Simpson, Dennis A.; Singer, Debra L.; Dowbenko, Rostyslaw; Blackburn, William P.; and Kania, Charles M., 4,650,718, Cl 428-413.000.

Simpson, Dennis A.; Singer, Debra L.; Dowbenko, Rostyslaw; Blackburn, William P.; and Kania, Charles M., 4,681,811, Cl 428-413.000.

Singer, Debra L.; Birkmeyer, William J.; Dowbenko, Rostyslaw; and Kania, Charles M., 4,690,980, Cl. 525-286.000.

Kania, Cheryl C.: *See*—

Funk, Gary L.; Terhune, Robert D.; Kania, Cheryl C.; and Kallenberger, Robert H., 4,642,766, Cl. 364-402.000.

Kania, Norbert, to Sachs-Systemtechnik GmbH. High-speed, port-controlled, two-stroke internal combustion engine with crankcase scavenging. 4,651,686, 3-24-87, Cl. 123-65.00P.

Kania, Robert C.: *See*—

Casselberry, Robert F.; and Kania, Robert C., 4,686,848, Cl 73-38.000.

Kanies, David E. Hollow door sealing wedge. 4,660,323, 4-28-87, Cl. 49-70.000.

Kanies, Kerry R., to Oilgear Company, The. Swashblock lubrication in axial piston fluid displacement devices. 4,710,107, 12-1-87, Cl. 417-269.000.

Kanii, Norikazu: *See*—

Nakamura, Hiroshi; Toyama, Osamu; and Kanii, Norikazu, 4,637,774, Cl. 414-735.000.

Kaniwa, Koji; Watatani, Yoshizumi; and Itoh, Shigeyuki, to Hitachi, Ltd. Audio signal transmission system having noise reduction means. 4,677,645, 6-30-87, Cl. 375-8.000.

Kanjo, Wajih; and Sommerfeld, Howard R., to American Standard Inc. Draft gear assembly. 4,645,187, 2-24-87, Cl. 267-9.00A.

Kanjo, Wajih; and Wallace, William D., to American Standard Inc. Frictional shock-absorbing method and apparatus. 4,647,024, 3-3-87, Cl. 267-9.00A.

Kanjo, Wajih; and Housman, Richard J., to American Standard Inc. Railway vehicle brake rigging slack adjuster. 4,662,485, 5-5-87, Cl. 188-196.00D.

Kanjo, Wajih, to American Standard Inc. Actuating means for a slack adjuster overtravel control mechanism. 4,683,991, 8-4-87, Cl. 188-197.000.

Kanke, Atsushi: *See*—

Sasayama, Takao; Oho, Shigeru; Kanke, Atsushi; Shibata, Takanori; and Endo, Akira, 4,708,480, Cl. 356-350.000.

Kanke, Takao; Takashima, Susumu; and Inagaki, Naoki, to Casio Computer Co., Ltd. LSP sound synthesizer. 4,653,099, 3-24-87, Cl. 381-51.000.

Kanki, Hiroshi: *See*—

Katayama, Kazuso; Mori, Yasushi; Kanki, Hiroshi; Morn, Shigeki; Takeshita, Koji; Ozawa, Yutaka; and Yoshida, Zenichi, 4,660,838, Cl. 277-97.000.

Kankkunen, Heikki I., to Rakennusvalmiste Oy. Ram casting machine for concrete slabs. 4,674,970, 6-23-87, Cl. 425-381.000.

Kankkunen, Heikki I., to Rakennusvalmiste Oy. Concrete slab extruder with shear-action coring members. 4,674,971, 6-23-87, Cl. 425-381.000.

Kankyo Company Limited: *See*—

Fazimura, Yasuyuki, 4,693,733, Cl. 55-129.000.

Kankyo Souken Consultant, Co., Ltd.: *See*—

Maeda, Isamu, 4,691,900, Cl. 266-156.000.

Kann, William J.: *See*—

Burelbach, James P.; Kann, William J.; Pan, Yen-Cheng; Sarveau, James G.; and Seidensticker, Ralph W., 4,645,638, Cl. 376-254.000.

Kannan, Krishnamurthi: *See*—

Meltzer, Clifford B.; Kannan, Krishnamurthi; Burket, Thomas G.; Kruesi, Deborah J.; and Braudaway, Gordon W., 4,712,214, Cl. 371-32.000.

Kannan, Takaaki: *See*—

Tsuruoka, Kouichi; Kannan, Takaaki; and Suematu, Jiro, 4,699,264, Cl. 198-468.200.

Kannapell, John T.; Asdurian, Haig; and Buttles, Robert F., to Northrop Corporation. Stores magazine and launch system. 4,702,145, 10-27-87, Cl. 89-1.803.

Kanner, Bernard: *See*—

Chu, Nan S.; and Kanner, Bernard, 4,709,067, Cl. 556-440.000.

King, Roswell E., III; Kanner, Bernard; Hopper, Steven P.; and Schilling, Curtis L., Jr., 4,675,424, Cl. 556-412.000.

Quirk, Jennifer M.; and Kanner, Bernard, 4,658,050, Cl. 556-479.000.

Quirk, Jennifer M.; and Kanner, Bernard, 4,668,812, Cl. 556-466.000.

Kanner, Martin. Anti-ripple circuit. 4,710,861, 12-1-87, Cl. 363-46.000.

Kanner, Rowland W., to Ryder International Corporation. Rinsing apparatus for contact lens cleaning system. 4,653,519, 3-31-87, Cl. 134-140.000.

Kanner, Rowland W.: *See*—

Ryder, Francis E.; and Kanner, Rowland W., 4,659,911, Cl. 219-521.000.

Kanno, Akihiko; Muto, Shigeaki; Niimura, Koichi; Ando, Takao; Fujii, Takayoshi; Fujii, Masahiko; Furusho, Takao; and Yoshikumi, Chikao, to Kureha Kagaku Kogyo Kabushiki Kaisha. Derivative of cephalosporanic acid and pharmaceutical composition comprising the same. 4,690,920, 9-1-87, Cl. 514-201.000.

Kanno, Akihiko: *See*—

Muto, Shigeaki; Ando, Takao; Fujii, Takayoshi; Kanno, Akihiko; Onishi, Yoko; Motokawa, Isamu; Furusho, Takao; and Yoshikumi, Chikao, 4,681,877, Cl. 514-206.000.

Kanno, Fuchio; Kobayashi, Kazuo; Sakamoto, Koji; Kaneko, Toshio; and Yasuda, Wataru, to Ricoh Company, Ltd. Developing device. 4,656,964, 4-14-87, Cl. 118-648.000.

Kanno, Fuchio: *See*—

Sakamoto, Koji; Kaneko, Toshio; Kanno, Fuchio; and Yasuda, Wataru, 4,674,439, Cl. 118-657.000.

Kanno, Fukuo: *See*—

Nakaya, Keiichi; Tanaka, Kunio; Kanno, Fukuo; and Kobayashi, Mitaka, 4,698,379, Cl. 523-513.000.

Kanno, Haruki; Tsuyoshi, Hidekazu; Nishinakagawa, Kou; Hara, Makoto; Mochida, Tetsuo; Hisaka, Tsugio; Miyaki, Munekazu; Kawarada, Minoru; and Kawarabayashi, Hideaki, to Takenaka Kohmuten Co., Lt. Method of creating offshore seabed mound. 4,643,617, 2-17-87, Cl. 405-222.000.

Kanno, Hideo, to Nippon Kogaku K. K. Photographing lens barrel provided with a catadioptric optical system. 4,690,516, 9-1-87, Cl. 350-444.000.

Kanno, Hideo; Yamashita, Shinichi; Enari, Masahiko; Kuno, Mitsutoshi; and Mizutome, Atsushi, to Canon Kabushiki Kaisha. Display panel and method of driving the same. 4,714,921, 12-22-87, Cl. 340-784.000.

Kanno, Hideo: *See*—

Okano, Hiroshi; Kanno, Hideo; and Ohmori, Sachio, 4,707,100, Cl. 354-273.000.

Seo, Akira; Kanno, Hideo; Hasegawa, Nobu; Miyagi, Yukio; Nishimura, Akira; Konaka, Shigeo; Ohmi, Tetsuto; Munechika, Yukimi; Uchida, Matazaemon; and Ikeda, Kenichi, 4,636,519, Cl. 514-397.000.

Kanno, Isao; and Yamamoto, Yasuo, to Sanshin Kogyo Kabushiki Kaisha. Warning device for a watercraft provided with a plurality of marine propulsion engines. 4,708,669, 11-24-87, Cl. 440-1.000.

Kanno, Koh. Vehicle for use on inclined ground. 4,647,053, 3-3-87, Cl. 280-6.00R.

Kanno, Masahide; Amano, Atsushi; Hosoda, Seiichi; and Hattori, Shinichiro, to Olympus Optical Co., Ltd. Light source device for an endoscope. 4,704,520, 11-3-87, Cl. 250-205.000.

Kanno, Masahide: *See*—

Kato, Shinichi; Sasaki, Masahiko; Kato, Tadashi; Kanno, Masahide; Takahashi, Yutaka; and Saito, Katsuyuki, 4,706,118, Cl. 358-98.000.

Kanno, Masashi; Komori, Katsufumi; Tatekawa, Masaichirou; Miwa, Kiyohito; and Takaoka, Iwane, to Matsushita Electric Industrial Co., Ltd. Electrophotographic apparatus capable of editing a copy picture image. 4,707,109, 11-17-87, Cl. 355-7.000.

Kanno, Masayoshi; Hideshima, Yasuhiro; Tsurumaru, Shinobu; and Kanayama, Ikuo, to Sony Corporation. Receiver device in a satellite communication system. 4,691,236, 9-1-87, Cl. 358-181.000.

Kanno, Masayoshi: *See*—

Hayashi, Toshihide; Kanayama, Ikuo; and Kanno, Masayoshi, 4,691,351, Cl. 380-10.000.

Kanno, Masayuki, to Kabushiki Kaisha Toshiba. Document image editing device. 4,667,248, 5-19-87, Cl. 358-280.000.

Kanno, Michio, to Terumo Corporation. Heat exchanger-incorporated hollow fiber type artifical lung. 4,657,743, 4-14-87, Cl. 422-46.000.

Kanno, Michio, to Terumo Kabushiki Kaisha. Fluid sampling device for medical use. 4,658,655, 4-21-87, Cl. 73-863.850.

Kanno, Michio; and Koremura, Mitsumasa, to Terumo Corporation. Device for transfer of medical substance. 4,689,149, 8-25-87, Cl. 210-321.300.

Kanno, Nobumori: *See*—

Ohtsuki, Akira; Konno, Ryozo; Kanno, Nobumori; Sugai, Makio; Mihoya, Takashi; Kubota, Yuichi; Nishimatsu, Masaharu; Isobe, Yukihiro; Tanaka, Kazushi; and Shinoura, Osamu, 4,708,909, Cl. 428-425.900.

Kanno, Shigeyuki: *See*—

Noh, Akihiko; Sato, Shinichi; Kakuda, Itsusuke; and Kanno, Shigeyuki, 4,701,994, Cl. 29-568.000.

Kanno, Tatsuya: *See*—

Motoi, Masatoshi; Toga, Yuzo; Okamoto, Ichiro; and Kanno, Tatsuya, 4,672,141, Cl. 568-613.000.

Kanno, Teruo: *See*—

Ise, Yoji; Kanno, Teruo; and Yamaguchi, Akira, 4,687,021, Cl. 137-526.000.

Kanno, Tetuo, to Ricoh Company, Ltd. Deflection limited magnetic head supporting structure. 4,651,245, 3-17-87, Cl. 360-105.000.

Kanno, Tomoei: *See*—

Ogawa, Hiroshi; and Kanno, Tomoei, 4,668,813, Cl. 558-147.000.

Kanno, Yoneo. Orthodontic bracket and apparatus for fabricating the same. 4,661,059, 4-28-87, Cl. 433-9.000.

Kanno, Yoshiaki; and Nishimura, Yukinobu, to Mitsubishi Denki Kabushiki Kaisha. Fuel control system for internal combustion engine. 4,683,539, 7-28-87, Cl. 364-431.050.

Kano, Atsushi: *See*—

Kozuka, Nobuhiko; Koyama, Shigeo; and Kano, Atsushi, 4,640,604, Cl. 355-3.00R.

Kano, Hidekazu; Shinchi, Takashi; and Hosoi, Shuichi, to Honda Giken Kogyo Kabushiki Kaisha. Fuel supply control method for internal combustion engines at low temperature. 4,711,217, 12-8-87, Cl. 123-491.000.

Kano, Hidekazu: *See*—

Fukutomi, Yohji; Kano, Hidekazu; and Kato, Akira, 4,703,733, Cl. 123-421.000.

Kano, Hideo: *See*—

Oka, Masahiko; Ueta, Yutaka; Kano, Hideo; Tomoda, Masayasu; and Kawachi, Shoji, 4,696,989, Cl. 526-254.000.

Kano, Hiroyuki: *See—*
  Kato, Masaaki; Kano, Hiroyuki; and Ohmori, Toshihiko, 4,676,214, Cl. 123-446.000.
Kano, Hisashi, to Mitsubishi Jukogyo Kabushiki Kaisha. Mobile bridge structure having a plurality of ramp modules. 4,698,866, 10-13-87, Cl. 14-1.000.
Kano, Ichiro, to Canon Kabushiki Kaisha. Alignment device. 4,667,109, 5-19-87, Cl. 250-461.100.
Kano, Ichiro: *See—*
  Kosugi, Masao; and Kano, Ichiro, 4,676,631, Cl. 355-55.000.
Kano, Keiichi: *See—*
  Yano, Hideo; Kano, Keiichi; Ozawa, Hitoshi; Kato, Shinji; and Takagi, Yoshio, 4,666,786, Cl. 428-544.000.
Kano, Kenji: *See—*
  Kuwahara, Kazuyoshi; Fukushima, Isao; Miura, Kuniaki; and Kano, Kenji, 4,713,700, Cl. 358-315.000.
  Miura, Kuniaki; Yunde, Yasufumi; Kotani, Kazunori; Fukushima, Isao; and Kano, Kenji, 4,647,960, Cl. 358-37.000.
  Okada, Yoshinori; Fukushima, Isao; Miura, Kuniaki; and Kano, Kenji, 4,667,120, Cl. 307-521.000.
Kano, Kuniomi: *See—*
  Nishimuro, Yoshiaki; Hirata, Osamu; Kano, Kuniomi; Miyakawa, Akira; Fushimoto, Hideo; and Sekine, Kazumi, 4,698,783, Cl. 364-710.000.
Kano, Mitsuru; and Nakanowatari, Jun, to Alps Electric Co., Ltd. Liquid crystalline pyrimidinyl phenyl carboxylic acid ester derivatives. 4,697,015, 9-29-87, Cl. 544-335.000.
Kano, Mitsuru: *See—*
  Nakanowatari, Jun; and Kano, Mitsuru, 4,711,530, Cl. 350-339.00R.
Kano, Noboru; and Saito, Akinori, to Toyota Jidosha Kabushiki Kaisha; and Aisin Seiki Kabushiki Kaisha. Roof door structure for vehicles. 4,664,440, 5-12-87, Cl. 296-214.000.
Kano, Takenori: *See—*
  Sumiya, Koji; Kano, Takenori; Kubo, Seitoku; and Watanabe, Kazuaki, 4,682,534, Cl. 92-130.00R.
Kano, Toshiharu: *See—*
  Enomoto, Masayuki; Ishibashi, Ichiro; Yamashita, Sachihiro; Ichinose, Kiyohiro; and Kano, Toshiharu, 4,667,386, Cl. 29-157.00R.
Kano, Toshiji: *See—*
  Samejima, Yasushi; Shiga, Minoru; Kano, Toshiji; and Kishi, Takamichi, 4,643,808, Cl. 204-98.000.
Kano, Toshio; Knodo, Masamichi; Ikeda, Tatsufumi; and Morikawa, Chiharu, to Yashima Chemical Industrial Co., Ltd. Tris(beta,beta-dimethylphenethyl) tin compounds. 4,703,059, 10-27-87, Cl. 514-493.000.
Kanodia, Vinod L., to General Motors Corporation. Vehicle door impact beam and stabilizing assembly. 4,684,166, 8-4-87, Cl. 296-146.000.
Kanoh, Kunihiko; Matsuki, Kanji; Ohta, Kazuhisa; and Sunohara, Tadaomi, to Morikawa Sangyo Kabushiki Kaisha. Casting method and apparatus. 4,711,289, 12-8-87, Cl. 164-34.000.
Kanoh, Toshio; and Kouchiwa, Taira, to Ricoh Company, Ltd. Fringe scanning shearing interferometer. 4,643,576, 2-17-87, Cl. 356-353.000.
Kanojia, Ramesh M.; Falotico, Robert; Tobia, Alfonso J.; and Press, Jeffery B., to Ortho Pharmaceutical Corporation. 4-nitrogen substituted isoquinolinol compounds having cardiotonic, phosphodiesterase fraction III inhibiting properties and/or renal vasodilating properties. 4,714,705, 12-22-87, Cl. 514-309.000.
Kanotz, William M.: *See—*
  Choi, Jae H.; Kanotz, William M.; and Vesperman, William C., 4,656,091, Cl. 428-383.000.
  Choi, Jae H.; Kanotz, William M.; and Vesperman, William C., 4,705,823, Cl. 524-474.000.
Kanou, Hideo; Kamata, Masahiro; and Yamanaka, Shigeru, to Ajinomoto Company, Incorporated. Method of measuring the number of eumycete cells. 4,675,289, 6-23-87, Cl. 435-18.000.
Kanou, Hiroyuki: *See—*
  Ohmori, Toshihiko; Nakatsuka, Hirotaka; and Kanou, Hiroyuki, 4,653,448, Cl. 123-446.000.
Kanou, Kazuo; Shinoda, Takamitu; and Kanbara, Yukio, to Dainichiseika Color & Chemicals Mfg. Co., Ltd. Pigment composition and preparation process thereof. 4,713,411, 12-15-87, Cl. 524-560.000.
Kanou, Noboru: *See—*
  Yamamoto, Junji; Kanou, Noboru; and Usami, Masayuki, 4,662,672, Cl. 296-224.000.
Kanou, Shoji: *See—*
  Kubota, Shigeru; Kanou, Shoji; and Kubo, Masahiro, 4,670,981, Cl. 29-840.000.
Kanpe Katei Toryoo Kabushiki Kaisha: *See—*
  Hirao, Katsumi; and Miyake, Toshio, 4,685,597, Cl. 222-389.000.
Kansai Electric Power Co., Inc., The: *See—*
  Haraguchi, Eiji; Nakagawa, Hiroto; Bando, Akira; Kuwahara, Takao; Nohara, Haruo; and Ono, Kenichi, 4,694,189, Cl. 290-40.00C.
Kansai Environmental Development Co., Ltd.: *See—*
  Sakamoto, Tsutomu, 4,694,716, Cl. 83-112.000.
Kansai Netsukagaku Kabushiki Kaisha: *See—*
  Yokoe, Jintaro; Takeuchi, Masami; and Tsuji, Toshiaki, 4,713,090, Cl. 55-68.000.
Kansai Paint Co., Ltd.: *See—*
  Inoue, Hiroshi; and Sasaki, Yoshio, 4,649,175, Cl. 525-38.000.
  Murase, Heihachi; and Nanishi, Kiyoshi, 4,636,324, Cl. 252-70.000.
  Tominaga, Akira; and Nishida, Reiziro, 4,710,561, Cl. 528-111.000.
Kansaka Co., Ltd.: *See—*
  Ohashi, Yoshio, 4,706,780, Cl. 182-93.000.
Kansas City Rubber and Belting Company: *See—*
  Skates, Raymond E., 4,641,745, Cl. 198-836.000.
Kansas State University Research Foundation: *See—*
  Andra, Bryan K.; Funk, Kent D.; Lang, Clyde J.; and Todd, Philip, 4,686,820, Cl. 56-341.000.
  Eckhoff, Steven R.; Oard, Darrell; Davis, Arthur B.; and Behnke, Kieth C., 4,703,647, Cl. 73-81.000.
  Seib, Paul A.; and Liao, Ming-Long, 4,647,672, Cl. 549-222.000.
  Simons, Gale G.; and DeBey, Timothy M., 4,636,642, Cl. 250-337.000.
Kant, Rajni; and Chen, Kun-Nau, to Raytheon Company. Configurable logic gate array. 4,691,161, 9-1-87, Cl. 324-73.00R.
Kant, Rishi; McEfee, Dennis R.; Roth, Thomas F.; and Wilmer, Richard K., to International Business Machines Corporation. Expandable suspension for a read/write head in a disk file. 4,670,804, 6-2-87, Cl. 360-102.000.
Kanter, Ira E.; and Hundstad, Richard L., to Westinghouse Electric Corp. Stack gas emissions control system. 4,657,738, 4-14-87, Cl. 422-186.040.
Kanter, Irving, to Raytheon Company. Method of resolving closely spaced targets. 4,646,095, 2-24-87, Cl. 342-149.000.
Kanters, Johannes T.: *See—*
  van der Werf, Haye J. J.; and Kanters, Johannes T., 4,665,444, Cl. 360-38.100.
Kanthal AB: *See—*
  Fredriksson, Tommy, 4,642,887, Cl. 29-611.000.
Kanto Chemical Co., Ltd.: *See—*
  Hirai, Yoichi; Fujii, Tsunenori; Koto, Kaoru; Suzuki, Kenji; Yoshida, Masahiro; Okawa, Hisashi; Okabe, Yoshiaki; Kitamura, Teruo; Yokokura, Hisao; Hattori, Shintaro; Mukoh, Akio; and Sato, Mikio, 4,694,098, Cl. 560-59.000.
Kanto Chuutetsu Kabushiki Kaisha: *See—*
  Ueki, Noboru, 4,664,426, Cl. 285-337.000.
Kanto Denka Kogyo Co., Ltd.: *See—*
  Oka, Kazuyoshi; Katayama, Mitsuhiro; Kohno, Toshihiko; Engstrom, Ulf; and Larssen, Svenn-Erik, 4,663,262, Cl. 430-108.000.
Kanto Ishi Pharmaceutical Co., Ltd.: *See—*
  Kato, Tetsuzo; and Katagiri, Nobuya, 4,656,260, Cl. 536-55.000.
  Ogawa, Tomoya; Sugimoto, Mamoru; Shitori, Yoshiyasu; and Ito, Masayoshi, 4,694,076, Cl. 536-17.200.
  Shibayama, Shohei; Yoshimura, Shoji; Ito, Masayoshi; Shitori, Yoshiyasu; and Ogawa, Tomoya, 4,663,44[illegible], Cl. 536-4.100.
  Shibayama, Shohei; Matsuzaki, Yuzi; Yoshimura, Shoji; Ito, Masayoshi; Shitori, Yoshiyasu; and Ogawa, Tomoya, 4,675,3[illegible], Cl. 536-17.400.
Kanto Jidosha Kogyo Kabushiki Kaisha: *See—*
  Chiba, Yoshinori; Ishida, Keiichi; and Sugiura, Fumio, 4,690,45[illegible], Cl. 297-284.000.
Kanto Kagaku Kabushiki Kaisha: *See—*
  Inoue, Senya; Ono, Akira; Kobayashi, Mikio; and Yokoo, Hiroshi, 4,698,317, Cl. 501-9.000.
  Inoue, Senya; and Ono, Akira, 4,711,769, Cl. 423-308.000.
Kanto, Masaharu; Akiyoshi, Eiichi; and Ohtake, Yasuhisa, to Tokyo Shibaura Denki Kabushiki Kaisha. Color picture tube and method for manufacturing the same. 4,708,680, 11-24-87, Cl. 445-47.000.
Kanto, Masaharu: *See—*
  Inaba, Michihiko; Kanto, Masaharu; Shikanai, Satoshi; and Ohtake, Yasuhisa, 4,665,338, Cl. 313-402.000.
  Inaba, Michihiko; Fujiwara, Tetsuo; Kanto, Masaharu; Ohtake, Yasuhisa; and Mori, Fumio, 4,698,545, Cl. 313-402.000.
Kanto Yakin Kogyo Kabushiki Kaisha: *See—*
  Takahashi, Susumu, 4,643,348, Cl. 228-223.000.
Kantor, Judith A.: *See—*
  Feller, William F.; and Kantor, Judith A., 4,657,851, Cl. 435-7.000.
Kantor, Martin L., to USV Pharmaceutical Corporation. Direct n-acylation of amino acids. 4,681,973, 7-21-87, Cl. 560-33.000.
Kantor, Paul, to Micro Dry, Inc. Fabric dryer. 4,703,565, 11-3-87, Cl. 34-1.000.
Kantor, Sherwood; Selby, Garry J.; and Wolfe, Larry L., to International Business Machines Corporation. Compensation for fine line prints. 4,681,424, 7-21-87, Cl. 355-14.00R.
Kantor, Sidney; and Kennett, Robert L., Jr., to American Cyanamid Company. Methods and compositions for treating protozoal infections with a novel antibiotic. 4,649,143, 3-10-87, Cl. 514-279.000.
Kantor, Sidney; and Kennett, Robert L., Jr., to American Cyanamid Company. Methods and compositions for treating protozoal infections with a novel antibiotic. 4,650,802, 3-17-87, Cl. 514-279.000.
Kantor, Sidney, to American Cyanamid Company. Compositions and methods for increasing the growth rate of meat producing animals, improving the efficiency of feed utilization thereby and enhancing lactation in lactating ruminants. 4,704,276, 11-3-87, Cl. 424-122.000.
Kantorowicz, Gerard; and Kaminsky, Didier, to Thomson-CSF. Analog and aperiodic frequency divide-by-two circuit. 4,670,674, 6-2-87, Cl. 307-529.000.
Kantrowitz, Adrian; Freed, Paul S.; Vaughan, Frizell L.; Bernstein, Isadore A.; and Gray, Robert H. Percutaneous access device and method for implanting same. 4,634,422, 1-6-87, Cl. 604-49.000.
Kantrowitz, Adrian; Freed, Paul S.; Tachi, Hiroyuki; and Suzuki, Akira, to Aisin Seiki Kabushiki Kaisha. Intra-aortic balloon pump apparatus and method of using same. 4,692,148, 9-8-87, Cl. 604-96.000.
Kantrud, Steven G.; Ericson, Steven V.; and Seidel, Karl R., Jr., to Micro Component Technology, Inc. Drop shuttle. 4,714,150, 12-22-87, Cl. 198-463.300.
Kanuma, Akira, to Tokyo Shibaura Denki Kabushiki Kaisha. Floating-point arithmetic operation system. 4,649,508, 3-10-87, Cl. 364-748.000.

Kanuma, Akira, to Kabushiki Kaisha Toshiba. Integrated circuit with divided power supply wiring. 4,656,370, 4-7-87, Cl. 307-303.000.

Kanuma, Satoru: *See—*
- Tajima, Kyousuke; and Kanuma, Satoru, 4,650,270, Cl. 339-143.00R.

Kanzaki Kokyukoki Mfg. Co., Ltd.: *See—*
- Ohashi, Ryota; Kawamura, Masahisa; and Shibata, Jiro, 4,637,482, Cl. 180-132.000.
- Ohashi, Ryota; Kawamura, Masahisa; and Fujisaki, Koichiro, 4,643,442, Cl. 280-461.00A.
- Okada, Hideaki; and Irikura, Koji, 4,702,120, Cl. 74-371.000.
- Onishi, Hikaru; Sato, Ichiro; Ryugo, Mitsunobu; and Fukumori, Norio, 4,649,610, Cl. 29-26.00A.
- Yamaoka, Kojiro; Azuma, Toshiro; Sakikawa, Shigenori; Shibata, Jiro; and Odagaki, Atsushi, 4,664,210, Cl. 180-132.000.
- Yamaoka, Kojiro; and Okada, Hideaki, 4,673,055, Cl. 180-336.000.
- Yamaoka, Kojiro; Yano, Kazuhiko; and Ohtsuki, Kazuhiko, 4,679,673, Cl. 192-21.000.

Kanzaki, Nobuyoshi: *See—*
- Kojima, Koichi; Jujo, Akihiro; Okabayashi, Masanori; Shimatani, Ryoichi; Toyama, Kenji; and Kanzaki, Nobuyoshi, 4,681,672, Cl. 204-129.400.
- Kunugihara, Hiromu; Shimatani, Ryoichi; Kitamura, Satoru; Okamura, Kazuo; and Kanzaki, Nobuyoshi, 4,671,858, Cl. 204-129.750.

Kanzaki Paper Manufacturing Co., Ltd.: *See—*
- Ando, Masatoshi; Mochizuki, Hiromine; and Saito, Kazuta, 4,639,270, Cl. 106-21.000.
- Arai, Naoto, 4,713,364, Cl. 503-209.000.
- Ishida, Katsuhiko; Nojima, Masaharu; and Okamoto, Tosaku, 4,652,512, Cl. 430-179.000.
- Ishida, Katsuhiko; Nojima, Masaharu; and Okamoto, Tosaku, 4,659,643, Cl. 430-157.000.
- Kanda, Nobuo; Horiike, Tetsuro; and Kondo, Mitsuru, 4,658,276, Cl. 346-220.000.
- Kondo, Mitsuru; Okimoto, Tomoyuki; and Kanda, Nobuo, 4,641,160, Cl. 346-220.000.
- Mori, Tohru; Hongo, Takayasu; and Kamikura, Rinzo, 4,639,751, Cl. 346-227.000.
- Nojima, Kazuhiro; Shono, Kouichi; and Takahashi, Mikio, 4,686,119, Cl. 427-362.000.
- Okamoto, Shigeo; and Shiozaki, Tomoharu, 4,680,597, Cl. 503-214.000.
- Omatsu, Masayuki; Yonese, Naoki; and Kondo, Mitsuru, 4,713,488, Cl. 564-397.000.
- Osaki, Shigeyoshi; and Nagata, Shin-ichi, 4,685,569, Cl. 209-571.000.
- Osaki, Shigeyoshi; and Fujii, Yoshihiko, 4,710,700, Cl. 324-58.50A.
- Shioi, Shunsuke; Shinmitsu, Kazuyuki; Kanda, Nobuo; Kondo, Mitsuru; and Miyake, Makoto, 4,704,379, Cl. 503-211.000.
- Tanaka, Masato; Irii, Shinsuke; and Shiozaki, Tomoharu, 4,688,060, Cl. 503-214.000.
- Tuji, Takuji; and Okauchi, Shuki, 4,668,291, Cl. 106-21.000.
- Yamori, Tsunefumi; Syuku, Sigekazu; and Fujioka, Hironari, 4,647,951, Cl. 346-200.000.

Kanzako Kokyukoki Mfg. Co., Ltd.: *See—*
- Yano, Kazuhiko; Ohtsuki, Kazuhiko; Awaya, Takao; and Yoshii, Gen, 4,643,687, Cl. 440-75.000.

Kanzawa, Masahide: *See—*
- Amano, Itaru; Fujieda, Yasuhiko; Ichikawa, Katsumi; Kanzawa, Masahide; Yanagihara, Toshio; and Misumi, Shikao, 4,669,964, Cl. 425-34.00R.
- Amano, Itaru; Fujieda, Yasuhiko; Ichikawa, Katsumi; Kanzawa, Masahide; Yanagihara, Toshio; and Misumi, Shikao, 4,695,234, Cl. 425-23.000.
- Ichikawa, Katsumi; and Kanzawa, Masahide, 4,702,669, Cl. 414-749.000.

Kanzig, Alex: *See—*
- Scheibli, Peter; Kanzig, Alex; and Schaub, Andres, 4,647,285, Cl. 8-528.000.

Kao, Anthony H. Preparing naturally sweet yogurt with Saccharomycopsis sp. and Rhizopus spp. 4,714,616, 12-22-87, Cl. 426-42.000.

Kao, Chao-Ven: *See—*
- Shu, Lee-Lean; Kao, Chao-Ven; and Shyu, Tai C., 4,670,861, Cl. 365-181.000.

Kao, Chiiming: *See—*
- Yeung, Hong-Ning; Kao, Chiiming; and Lent, Arnold H., 4,649,346, Cl. 324-309.000.

Kao, Ching-Ho. Multi-purpose building block. 4,682,967, 7-28-87, Cl. 446-113.000.

Kao Corporation: *See—*
- Dohzono, Masatake; Miyashita, Iwao; and Abe, Norihiro, 4,714,466, Cl. 604-378.000.
- Eguchi, Yasuteru; Yorozu, Hidenori; and Iijima, Eiji, 4,650,667, Cl. 424-44.000.
- Eguchi, Yasuteru; and Yorozu, Hidenori, 4,666,707, Cl. 424-44.000.
- Fujikura, Yoshiaki; Yamamuro, Akira; and Nakajima, Motoki, 4,693,845, Cl. 512-9.000.
- Fukumoto, Yasuhisa; and Moriyama, Noboru, 4,668,735, Cl. 524-804.000.
- Fukumoto, Yasuhisha; and Moriyama, Moboru, 4,709,091, Cl. 562-595.000.
- Hara, Kenji; and Eguchi, Yasuteru, 4,657,691, Cl. 252-91.000.
- Hara, Kenji; Takahashi, Hiromichi; Kamiya, Tetsuro; and Tsujii, Kaoru, 4,686,211, Cl. 514-148.000.
- Hori, Kimihiko; Nakamura, Koichi; and Takaishi, Naotake, 4,670,585, Cl. 562-459.000.
- Imamura, Takashi; Kayane, Shigeto; and Kurosaki, Tomihiro, 4,650,862, Cl. 536-17.100.
- Imamura, Takashi; Nozaki, Toshio; Nishino, Kenji; and Kanai, Hiroyuki, 4,670,430, Cl. 514-188.000.
- Iwasaki, Tetsuji; and Kamihisa, Yasushi, 4,663,364, Cl. 523-122.000.
- Iwasaki, Tetsuji, 4,681,900, Cl. 514-786.000.
- Iwasaki, Tetsuji, 4,714,490, Cl. 71-27.000.
- Kanai, Hiroyuki; Imamura, Tetsuya; Takeuchi, Takeshi; and Suzue, Shigetoshi, 4,675,250, Cl. 428-403.000.
- Kishine, Nobuyuki; Imamura, Tetsuya; Yamauchi, Michihide; and Ootani, Tsuyoshi, 4,642,720, Cl. 360-126.000.
- Kishine, Nobuyuki; Imamura, Tetsuya; Minami, Hideyuki; and Yamauchi, Michihide, 4,644,431, Cl. 360-122.000.
- Kishine, Nobuyuki; Imamura, Tetsuya; Yamauchi, Michihide; and Takeuchi, Takashi, 4,661,402, Cl. 428-323.000.
- Kishine, Nobuyuki; Imamura, Tetsuya; and Yamauchi, Michihide, 4,716,078, Cl. 428-336.000.
- Kondo, Akihiro; Tsushima, Rikio; and Sumida, Yuzo, 4,639,491, Cl. 524-801.000.
- Kubo, Makoto; Sotoya, Koshiro; and Okabe, Kazuhiko, 4,709,045, Cl. 548-352.000.
- Kurosaki, Tomihiro; Wakatsuki, Junya; Furugaki, Hisakazu; and Kojima, Katsutoshi, 4,670,575, Cl. 558-146.000.
- Kuwamoto, Hiroshi; Nagamori, Hiroyuki; Mukai, Takashi; and Iwado, Shuichi, 4,637,885, Cl. 252-32.500.
- Kuwamoto, Hiroshi; Nagamori, Hiroyuki; Mukai, Takashi; Iwado, Shuichi; and Sakaguchi, Yoshihiro, 4,663,061, Cl. 252-32.500.
- Kuwamoto, Hiroshi; Nagamori, Hiroyuki; Mukai, Takashi; and Iwado, Shuichi, 4,664,823, Cl. 252-34.000.
- Kuwamoto, Hiroshi; Iwadoo, Shuichi; Okami, Yuji; Nagamori, Hiroyuki; and Nakagawa, Yasuhiro, 4,693,839, Cl. 252-51.50A.
- Makashima, Norihiko, 4,689,159, Cl. 252-8.600.
- Mishima, Masayuki, 4,715,961, Cl. 210-692.000.
- Nagamori, Hiroyuki; Mukai, Takashi; Tsushima, Rikio; Kuwamoto, Hiroshi; Iwado, Shuichi; and Sharyo, Takeru, 4,650,595, Cl. 252-32.500.
- Nakamura, Koichi; Hori, Kimihiko; Hattori, Michihiro; Tejima, Toru; Imokawa, Genji; and Takaishi, Naotake, 4,704,473, Cl. 562-463.000.
- Nakamura, Koichi; Hattori, Michihiro; Tamura, Tadashi; Tejima, Toru; Takaishi, Naotake; Imokawa, Genji; and Hotta, Hajime, 4,710,373, Cl. 424-59.000.
- Nakanishi, Takashi, 4,685,178, Cl. 28-118.000.
- Nakaoji, Kazuhiko; Kamao, Mitsugu; Itoh, Hayami; Tatsumi, Shuhei; and Takao, Shoichi, 4,706,891, Cl. 241-16.000.
- Ogino, Hidekazu; and Hirota, Hajime, 4,678,598, Cl. 252-174.170.
- Okumoto, Tadaoki; Nakata, Rikizo; Ichikawa, Masayoshi; Tsuchihashi, Masaaki; and Sakai, Koichi, 4,645,788, Cl. 524-308.000.
- Sakurai, Akira, 4,654,038, Cl. 604-368.000.
- Sano, Tomohiko; Fujisawa, Noriyoshi; Fukuda, Masataka; and Suganuma, Tsuyoshi, 4,707,292, Cl. 252-174.160.
- Sekine, Fumimaro; Kurosaki, Tomihiro; Ukena, Toshinao; and Kamitani, Hiroshi, 4,713,487, Cl. 562-587.000.
- Shiba, Daisuke; Miyashita, Iwao; and Ito, Osamu, 4,652,484, Cl. 428-286.000.
- Sotoya, Koshiro; Kubo, Makoto; and Okabe, Kazuhiko, 4,705,893, Cl. 562-564.000.
- Suzuki, Toshio; and Yahagi, Kazuyuki, 4,711,776, Cl. 424-70.000.
- Suzuki, Toshiyuki; Tsukada, Akira; and Kai, Masanobu, 4,675,179, Cl. 424-67.000.
- Takaishi, Naotake; and Hori, Kimihiko, 4,698,435, Cl. 549-305.000.
- Tanaka, Yukitaka; Irinatsu, Yuichi; Noguchi, Aiko; and Kobayashi, Takashi, 4,705,692, Cl. 426-607.000.
- Tsujii, Kaoru; and Yoshimatsu, Akira, 4,634,725, Cl. 523-221.000.
- Yamamoto, Hiromi; Imai, Miho; and Suzuki, Noboru, 4,694,525, Cl. 15-160.000.
- Yamasaki, Harumasa; Kobayashi, Takatoshi; Ito, Osamu; Sakurai, Akira; and Sumida, Yuzo, 4,666,975, Cl. 524-733.000.
- Yamasaki, Harumasa; Morii, Masayoshi; Yokota, Yukinaga; Mamada, Akira; and Nabata, Yoshiyuki, 4,714,719, Cl. 521-163.000.

Kao, David T., to University of Kentucky, Board of Trustees of the. Self-flushing fluid seal assembly. 4,691,620, 9-8-87, Cl. 92-80.000.

Kao, Jar-Lin: *See—*
- Poeppelmeier, Kenneth R.; Funk, Walter G.; Steger, John J.; Fung, Shun C.; Cross, Virginia R.; and Kao, Jar-Lin, 4,648,960, Cl. 208-138.000.

Kao, Kenneth C.: *See—*
- Green, Terry D.; Kao, Kenneth C.; O'Loughlin, Robert J., Jr.; and Reese, Robert C., 4,643,465, Cl. 285-236.000.

Kao, Ming-Luh: *See—*
- de la Guardia, Mario; and Kao, Ming-Luh, 4,654,708, Cl. 358-148.000.

Kao, Shui-Hsi; Kay, Allen I.; and Sampson, Karla, to Warner-Lambert Company. Parenteral phenytoin compositions. 4,696,814, 9-29-87, Cl. 424-80.000.

Kao Soap Co., Ltd.: *See—*
- Takaishi, Naotake; Urata, Kouichi; Inamoto, Yoshiaki; Tsutsumi, Hisao; and Kawano, Junichi, 4,634,719, Cl. 514-772.000.

Kaoru, Koide; and Sadao, Nagai, to Takamiya Dental Manufacturing Company Limited. Articulator. 4,715,814, 12-29-87, Cl. 433-59.000.

Kapaan, Hendikus J., to SKF Industrial Trading & Development Co. B.V. Roller bearing unit. 4,668,111, 5-26-87, Cl. 384-544.000.

Kapadia, Jayant K.: *See—*

Fruehan, Mark T.; Fennig, Jeffrey A.; and Kapadia, Jayant K., 4,679,508, Cl. 105-341.000.

Kapadya, Aftab H.: *See—*

Gunderson, Charles; and Kapadya, Aftab H., 4,677,572, Cl. 364-520.000.

Kapanka, Harley L., to General Motors Corporation. Compact seat belt retractor. 4,645,138, 2-24-87, Cl. 242-107.40A.

Kapany, Narinder S.; and Unterleitner, Fred C., to Kaptron, Inc. Star coupler for optical fibers. 4,714,313, 12-22-87, Cl. 350-96.160.

Kapec, Jeffrey: *See—*

Blatherwick, William J.; Hamilton, Leslie; Holewinski, Robert D.; Shen, Virginia A.; Kapec, Jeffrey; and Tanaka, Kazuna, 4,693,684, Cl. 433-90.000.

Clanton, Marlene K.; Kapec, Jeffrey; and Tanaka, Kanuza, 4,665,917, Cl. 128-334.00R.

Clanton, Marlene K.; Kapec, Jeffrey; and Tanaka, Kanuza, 4,703,887, Cl. 227-19.000.

Kapfer, Karl; and Schwarz, Gerhad, to Brown, Boveri & Cie AG. Electronic safety barrier. 4,660,121, 4-21-87, Cl. 361-58.000.

Kapfer, Klaus: *See—*

McCullough, Robert W.; Peoples, Clarence A.; Sacks, Maurice J.; Adams, Ronald L.; Kapfer, Klaus; and Talbott, Graham M., 4,663,103, Cl. 264-40.400.

Kapicak, Louis A.: *See—*

Crandall, John W.; Deitzler, James E.; Kapicak, Louis A.; and Poppelsdorf, Fedor, 4,663,477, Cl. 560-204.000.

Kapich, Davorin D., to United States of America, Energy. Bearing system. 4,641,978, 2-10-87, Cl. 384-102.000.

Kapikian, Albert Z.: *See—*

Wyatt, Richard G.; Kapikian, Albert Z.; Chanock, Robert M.; Midthun, Karen; Flores, Jorge; and Hoshino, Yasutaka, 4,704,275, Cl. 424-89.000.

Kaplan, Carl: *See—*

Lane, James W.; Parikshak, Davendra D.; and Kaplan, Carl, 4,661,476, Cl. 514-60.000.

Kaplan, David G.; Pazirandeh, Said; Alvarado, Mario M.; and Attal, Lucien, to Cilco, Inc. Process for making soft contact and intraocular lenses with an esterifiable carboxyl-containing polymer. 4,668,446, 5-26-87, Cl. 264-1.700.

Kaplan, Gary M.; Karau, Robert T.; Winney, Norman E., Jr.; and Brader, David G., to Communications Transfer Corp. Universal package for prerecorded computer disk and associated instructional material. 4,640,413, 2-3-87, Cl. 206-232.000.

Kaplan, Henry S.; and Olsson, Lennart, to Leland Stanford Jr. University, The Board of Trustees of the. Human hybridomas, precursors and products. 4,668,629, 5-26-87, Cl. 435-172.200.

Kaplan, Herman: *See—*

Brandstetter, Robert W.; Doucette, Adrian R., deceased; Kaplan, Herman; Lindig, Charles E.; and Fonneland, Nils J., 4,699,466, Cl. 350-162.120.

Kaplan, Isaac R.: *See—*

Demaison, Gerard J.; and Kaplan, Isaac R., 4,659,675, Cl. 436-29.000.

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Ginzburg, Vladimir B.; and Kaplan, Naum M., 4,683,744, Cl. 72-243.000.

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McGowan, George A.; and Kaplan, Robert L., 4,641,288, Cl. 367-20.000.

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Ezer, Elemer; Harsanyi, Kalman; Petho, Hajnalka V.; Matuz, Judit; Szporny, Laszlo; Cholnoky, Eszter; Kuthi, Csaba; Trischler, Ferenc; Hegedus, Bela; Kapolnas, Marta; and Kallay, Anna, 4,713,388, Cl. 514-346.000.

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Kappeler, Franz: *See—*

Heinen, Jochen; Kappeler, Franz; and Westermeier, Heinz, 4,674,095, Cl. 372-50.000.

Kappeler, Otmar, to Deutsche ITT Industries GmbH. Generator circuit for generating two sinusoidal signals with a phase difference of 90 degrees. 4,683,444, 7-28-87, Cl. 331-25.000.

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Gassmann, Gerhard G.; Schat, Hermannus; Elmis, Herbert; Novotny, Bernd; Kappeler, Otmar; and Ehrhardt, Dietmar, 4,710,814, Cl. 358-143.000.

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Brunke, Ernst-Joachim; and Kappey, Claus-Hermann, 4,652,402, Cl. 252-522.00R.

Kappis, Fritz: *See—*

Hertweck, Gernot; Kappis, Fritz; Kellermann, Guenter; and Schalueck, Klaus, 4,697,569, Cl. 123-568.000.

Kappler, Gerhard W., to Laboratorium Prof. Dr. Rudolf Berthold. Method of regulating the quality of a foam when it exits from a foam conveyor line. 4,676,926, 6-30-87, Cl. 252-307.000.

Kappler, Inc.: *See—*

Langley, John D., 4,670,073, Cl. 156-73.100.

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Kapples, Kevin J.: *See—*

Effland, Richard C.; Davis, Larry; and Kapples, Kevin J., 4,667,039, Cl. 546-208.000.

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Kapps, Manfred: *See—*

Mann, Max; and Kapps, Manfred, 4,715,746, Cl. 405-264.000.

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Kapstad, Odd B. Sound dampening panel and method of fabrication. 4,661,392, 4-28-87, Cl. 428-182.000.

Kaptas, Tibor: *See—*
  Gorog nee Privitzer, Katalin; Bodnar, Laszlo ; Dudar, Erzsebet; Kocsis nee Bagi, Maria; Gaal, Sandor; Tasnadi, Marta; Egyhazi nee Csizmadia, Eva; Varga, Valeria M.; Kajati, Istvan; Kis, Gyorgy; Molnar, Janos; Toth, Bertalan; Cserhati nee Botka, Ilona; Kaptas, Tibor; and Csete, Sandor, 4,661,477, Cl. 514-76.000.
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Kaptron, Inc.: *See—*
  Kapany, Narinder S.; and Unterleitner, Fred C., 4,714,313, Cl. 350-96.160.

Kapur, Rajan N., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Bitmapped graphics workstation. 4,700,320, 10-13-87, Cl. 364-521.000.

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Kapusciniski, Maria M.; Kaufman, Benjamin J.; and Liu, Christopher S., to Texaco Inc. Oil containing dispersant VI' olefin copolymer. 4,715,975, 12-29-87, Cl. 252-50.000.

Kapuscinski, Maria M.; Liu, Christopher S.; Hart, William P.; and Grina, Larry D., to Texaco Inc. Hydrocarbon compositions containing polyolefin graft polymers. 4,640,788, 2-3-87, Cl. 252-51.50R.

Kapuscinski, Maria M.; and Jones, Ronald E., to Texaco Inc. Dispersant-antioxidant multifunction viscosity index improver. 4,699,723, 10-13-87, Cl. 252-47.000.

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Kara, Stephen. Head and guide cleaning device for video tape recorder. 4,683,511, 7-28-87, Cl. 360-132.000.

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  Rollins, Jack; Coppin, William; and Karabin, Thaddeus, 4,635,898, Cl. 251-229.000.

Karabinis, Peter D., to AT&T Bell Laboratories. Asynchronous and non-data decision directed equalizer adjustment. 4,635,276, 1-6-87, Cl. 375-15.000.

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  Fowler, David K.; Karadimas, Margaret; DeSimone, Ronald; and Termini, Frank J., 4,688,862, Cl. 312-325.000.

Karady, Sandor: *See—*
  Conn, Robin S. E.; and Karady, Sandor, 4,704,472, Cl. 562-461.000.

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  Kishi, Hajimu; Sakakibara, Shinsuke; and Karakama, Tatsuo, 4,700,118, Cl. 318-568.000.

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  Jakobsson, Maja; Skjoldebrand, Christina; and Sjoholm, Ingegerd, 4,647,469, Cl. 426-524.000.

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  Imade, Shinichi; and Karaki, Kouichi, 4,683,751, Cl. 73-606.000.

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  Sakabe, Yukio; Karaki, Shintaro; and Nakano, Kiyoshi, 4,652,967, Cl. 361-309.000.

Karakis, Charles H.: *See—*
  Hall, Robert J.; Karakis, Charles H.; and Kieiek, Matt, 4,655,653, Cl. 409-182.000.

Karam, Ronald E.: *See—*
  Faria, Sixdeniel; and Karam, Ronald E., 4,684,595, Cl. 430-94.000.
  Schulze, Harry O.; and Karam, Ronald E., 4,681,807, Cl. 428-403.000.
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  Hara, Yasuhiko; Karasaki, Koichi; Ujiie, Noriaki; and Sase, Akira, 4,692,690, Cl. 324-73.0PC.
  Hara, Yasuhiko; Saito, Keiya; Karasaki, Koichi; and Sase, Akira, 4,700,225, Cl. 358-106.000.

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Karasaki, Toshihiko; Matsui, Toru; and Ueda, Hiroshi, to Minolta Camera Kabushiki Kaisha. Focus condition detecting arrangement. 4,696,558, 9-29-87, Cl. 354-406.000.

Karasaki, Toshihiko: *See—*
  Taniguchi, Nobuyuki; Ishida, Tokuji; Hamada, Masataka; Karasaki, Toshihiko; and Norita, Toshio, 4,716,434, Cl. 354-408.000.

Karasawa, Akira: *See—*
  Teranishi, Masayuki; Takahashi, Mitsuru; Nomoto, Hisayo; Kase, Hiroshi; Shuto, Katsuichi; Kubo, Kazuhiro; and Karasawa, Akira, 4,677,125, Cl. 514-7.000.
  Yamato, Masayuki; Kase, Hiroshi; Kawamoto, Isao; Kasai, Masaji; Shirahata, Kunikatsu; Deguchi, Takashi; Shuto, Katsuichi; Karasawa, Akira; Okachi, Ryo; and Nakayama, Kiyoshi, 4,683,220, Cl. 514-7.000.

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  Hamano, Koichi; Yamato, Hajime; and Karasawa, Hideo, 4,661,908, Cl. 364-405.000.

Karasawa, Hitoshi, to Olympus Optical Co., Ltd. Resectoscope with matching markers and method of assembly. 4,649,917, 3-17-87, Cl. 128-303.140.

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  Hashimoto, Matsuo; Kiyomoto, Masayuki; Karasawa, Yoshimitsu; Sakamoto, Kenji; Kakui, Yasuhiko; and Hirasawa, Yutaka, 4,675,252, Cl. 428-431.000.

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Karat, John: *See—*
  Johnson, Steven E.; Karat, John; and Ruiz, Thomas M., 4,648,062, Cl. 364-900.000.

Karatson, Laszlo : *See—*
  Nagy, Istvan; Nagy, Ferenc; Pozsgai, Istvan; Karatson, Laszlo ; Gabori, Andor; Toth, Kalman; and Zubretzky, Jeno, 4,691,485, Cl. 52-125.100.

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  Martischius, Franz-Dieter; Karau, Dieter; Arnold, Werner; and Barthold, Klaus, 4,675,348, Cl. 523-323.000.

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  Kaplan, Gary M.; Karau, Robert T.; Winney, Norman E., Jr.; and Brader, David G., 4,640,413, Cl. 206-232.000.

Karaus, Edward. Erosion control system for bluffs located adjacent a body of water. 4,666,334, 5-19-87, Cl. 405-31.000.

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  Fedorov, Svyatoslav N.; Egorova, Eleonora V.; Nanushyan, Sergei R.; Chernyshev, Evgeny A.; Spiridonov, Oleg P.; Benenson, Igor L.; Polivanov, Alexandr N.; Shapatin, Anatoly S.; and Karavaev, Alexandr A., 4,647,282, Cl. 623-4.000.

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Setzer, Herbert J., Karavolis, Sam; and Bett, John A. S., 4,693,882, Cl. 423-652.000.

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Morrison, Clyde A., Karayianis, Nick; and Wortman, Donald E., 4,670,637, Cl. 219-121.00L.

Karb, Erich: *See*—

Baumert, Heinz; Schmitt-Maass, Nikolaus; and Karb, Erich, 4,687,254, Cl. 297-481.000.

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Janssen, Bernd; Karbach, Stefan; Meyer, Norbert; and Laur, Gerhard, 4,652,580, Cl. 514-383.000.

Rentzea, Costin; Sauter, Hubert; Karbach, Stefan; Will, Wolfgang; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, 4,678,798, Cl. 514-383.000.

Schirmer, Ulrich; Karbach, Stefan; Pommer, Ernst-Heinrich; Ammermann, Eberhard; Steglich, Wolfgang; Schwalge, Barbara A. M.; and Anke, Timm, 4,709,078, Cl. 560-060.000.

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Peckman, Robert; and Karbassiyoon, Kamran, 4,635,314, Cl. 15-304.000.

Karbowiak, Antoni E., and Amidc, Gary J., to Unisearch Limited. Local area network. 4,663,748, 5-5-87, Cl. 370-89.000.

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Mulcahy, Harry W.; and Karbowniczek, Stanley, 4,674,412, Cl. 105-224.100.

Karbstein, Peter, to ACO Polymer Products, Inc. Protective frame device for drainage channel. 4,699,544, 10-13-87, Cl. 405-118.000.

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Sarnoff, Stanley J.; Tarello, William R.; Lopez, Claudio; and Karcher, Daniel W., 4,689,042, Cl. 604-89.000.

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Karczewski, Robert A. Knee support structure. 4,651,722, 3-24-87, Cl. 128-80.00C.

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Ashelman, Robert U., Jr.; Townsend, Michael G.; and Lawrence, Mark C., 4,635,465, Cl. 72-448.000.

Kardon Industries: *See*—

Zirnhauer, Gerald, 4,706,828, Cl. 215-246.000.

Kardos nee Nikoletti, Mariann: *See*—

Matolcsy, Gyorgy; Gimesi, Antal; Pelejtei nee Bauer, Krisztina; Sztatisz, Janisz; Tombor nee Szotyori, Agota; Cserhati, Tibor; Gerlei nee Komaromy, Aniko; Kardos nee Nikoletti, Mariann; Dukai, Jozsef; Sebok, Dezso; Soptei, Csaba; Nagy, Lajos; and Belai, Ivan, 4,672,112, Cl. 536-46.000.

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Angas, David J., 4,677,698, Cl. 2-161.00A.

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Karichev, Zia R.: *See*—

Lidorenko, Nikolai S.; Gorun, Viktor T.; Muchnik, Grigory F.; Karichev, Zia R.; Shteinberg, Alexandr N.; Lev, Mikhail B.; Moiseev, Viktor I.; Schegolev, Igor S.; Ilin, Vladimir M.; and Smirnov, Igor I., 4,666,668, Cl. 422-48.000.

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Karim, Karl A., to Shell Oil Company. Smooth-look footwear process. 4,659,596, 4-21-87, Cl. 427-393.500.

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Kariya, Shigeo: *See*—

Takizawa, Shozo; Tatemoto, Minoru; Furumura, Akio; Sugawara, Tadashi; Kariya, Shigeo; and Hiroshima, Kazuo, 4,685,689, Cl. 280-707.000.

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Kariya, Takao, to Canon Kabushiki Kaisha. Apparatus for holding an object by use of electrostatic attracting force. 4,667,110, 5-19-87, Cl. 250-492.200.

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Karjalainen, Arto J.; Virtanen, Raimo E.; Karjalainen, Arja L.; and Kurkela, Kauko O. A., 4,689,339, Cl. 514-396.000.

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Kark, Uwe. Arrangement for fastening a roll ring on an overhung roll shaft. 4,650,364, 3-17-87, Cl. 403-368.000.

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Hoffa, Jack L., and Karkar, Maurice N., 4,635,467, Cl. 73-1.00G.

Hoffa, Jack L., and Karkar, Maurice N., 4,700,560, Cl. 73-1.00G.

Karklin, Roland; Arends, Albert W.; Brokoff, Terrance L.; Russell, Edward J.; and Greiner, James R., to John Brown Inc. Differential pressure thermoforming and foam injection process and apparatus. 4,676,938, 6-30-87, Cl. 264-46.500.

Karklin, Roland: *See*—

Whiteside, Robert C.; Arends, Albert W.; and Karklin, Roland, 4,666,544, Cl. 156-212.000.

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Karl Bauer Spezialtiefbau GmbH & Co. KG: *See*—

Bauer, Karlheinz; and Arzberger, Maximilian, 4,694,915, Cl. [illegible] 91.000.

Bauer, Karlheinz; Haberer, Johann; and Arzberger, Maximilian M., 4,69[illegible],947, Cl. 403-14.000.

Karl Becker GmbH u. Co. KG Maschinenfabrik: *See*—

Meyer-Bosse, Jurgen, 4,650,093, Cl. 221-233.000.

Karl, Curtis L., to Henkel Corporation. Fluid friction reduction. 4,637,418, 1-20-87, Cl. 137-13.000.

Karl, Curtis L.: *See*—

Elmquist, Lyle F.; Howland, Warren W.; and Karl, Curtis L., 4,655,943, Cl. 252-8.551.

Karl Danzer Furnierwerke: *See*—

Fuchs, Fritz-Reichard; and Staendeke, Horst, 4,701,373, Cl. 428-326.000.

Karl, David: *See*—

Petratos, Nickie A.; Karl, David; and Bradford, William M., 4,680,676, Cl. 361-424.000.

Karl Deutsch Pruf- und Messgeratebau GmbH & Co. KG: *See*—

Deutsch, Volker K.; and Roddeck, Werner F., 4,695,797, Cl. 324-230.000.

Roddeck, Werner F.; and Schafer, Heinz-Peter, 4,656,648, Cl. 73-597.000.

Karl Eybl Gesellschaft m.b.H.: *See*—

Schmidt, Walter R., 4,706,474, Cl. 66-9.00B.

Karl Fischer-Pochtler Gesellschaft m.b.H.: *See*—

Folter, Hannes; Folter, Christian C.; and Grobl, Franz, 4,657,162, Cl. 222-402.250.

Karl, Gerald M., to Eastman Kodak Company. Spin drying apparatus. 4,651,440, 3-24-87, Cl. 34-58.000.

Karl-Heinz Feistel: *See*—

Feistel, Karl H., 4,659,995, Cl. 328-167.000.

Karl Jungel GmbH & Co. KG: *See*—

Krus, Werner, 4,644,837, Cl. 83-864.000.

Karl Lautenschlager GmbH & Co. KG: *See*—

Lautenschlager, Horst, 4,639,145, Cl. 384-19.000.

Lautenschlager, Karl, Jr.; and Lautenschlager, Gerhard, 4,654,930, Cl. 16-288.000.

Lautenschlager, Karl, Jr.; and Lautenschlager, Gerhard, 4,703,539, Cl. 16-240.000.

Lautenschlager, Karl, Jr., 4,706,332, Cl. 16-241.000.

Karl Lautenschlager KG: *See*—

Lautenschlager, Karl, Jr., 4,653,144, Cl. 16-239.000.

Lautenschlager, Karl, Jr.; and Lautenschlager, Horst, 4,698,877, Cl. 16-235.000.

Karl Lautenschlager KG, Mobelbeschlagfabrik: *See*—

Lautenschlager, Horst, 4,641,393, Cl. 16-241.000.

Lautenschlager, Karl, 4,642,846, Cl. 16-382.000.

Lautenschlager, Karl, Jr., 4,653,937, Cl. 384-19.000.

Karl Lumberg GmbH & Co.: *See*—

Fuchs, Helmut, 4,669,806, Cl. 439-712.000.

Karl Lutz, Firma: *See*—

Lutz, Karl, 4,668,166, Cl. 415-219.00C.

Karl M Reich Maschinenfabrik GmbH: *See*—

Skuthan, Erich, 4,641,772, Cl. 227-123.000.

Karl Mayer Textilmaschinenfabrik GmbH: *See*—

Bogucki-Land, Bogdan, 4,669,159, Cl. 28-185.000.

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Naumann, Rolf, 4,665,719, Cl. 66-84.00A.

Naumann, Rolf, and Hittel, Gerhard, 4,665,721, Cl. 66-203.000.

Naumann, Rolf, and Wilkens, Christian, 4,703,631, Cl. 66-84.00A.

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Luter, Charles H.; Lethin, Nils L.; Moeller, Johan; and Holm, Bjarne R., 4,643,484, Cl. 301-11.00S.

Karl Otto Braun KG, Firma: *See*—

Schafer, Ewald, and Jung, Harald, 4,699,133, Cl. 128-156.000.

Karl, Rupert: *See*—

Artzt, Peter; Muller, Heinz; Egbers, Gerhard; Bohm, Gunther; Wittmann, Stephan; and Karl, Rupert, 4,653,260, Cl. 57-263.000.

Burkhard, Ludwig; Schuller, Edmund; Lovas, Kurt; and Karl, Rupert, 4,634,064, Cl. 242-18.0PW.

Schuller, Edmund; Bohm, Gunther; and Karl, Rupert, 4,687,148, Cl. 242-18.0PW.

Karl Suss KG. Prazisionsgerate fur Wissenschaft und Industrie GmbH & Co.: *See*—

Gorgon, Georg, 4,686,360, Cl. 250-201.000.

Karl Thomae GmbH: *See*—

Roch, Josef; Muller, Erich; Narr, Berthold; Nickl, Josef; Haarmann, Walter; and Weisenberger, Johannes M., 4,690,923, Cl. 514-222.000.

Karl, Veit-Holger, to Alpine Aktiengesellschaft. Take-away device for plastic tubing. 4,643,656, 2-17-87, Cl. 425-72.00R.

Karle, David A.: *See*—

Cummings, Arthur L.; Karle, David A.; and Miller, William R., 4,650,646, Cl. 422-26.000.

Karle, Dennis W.; Payne, Zie A.; Chung, Fred C.; and Clark, Ross P., to Memorex Corporation. Radiation-cured recording composition with bi-part lube. 4,686,146, 8-11-87, Cl. 428-425.900.

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Macmorine, David R. L.; Maczvszenko, Andrzej; and Karley, Terence F., 4,642,974, Cl. 53-558.000.

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Donnelly, Vincent M., and Karlicek, Robert F., Jr., 4,645,687, Cl. 427-53.100.

Karlin, Richard A.: *See*—

Reiffel, Leonard; Jung, Wayne D.; Karlin, Richard A.; and Tam, Raphael K., 4,654,484, Cl. 379-53.000.

Karliner, Rudolf, and Stone, Corbett W., to Wagner Spray Tech Corporation. Liquid applicator with scraper and method of use. 4,652,163, 3-24-87, Cl. 401-195.000.

Karlis, Robert G.; Dole, Charles M.; Webster, Gary L.; and Andersen, George J., to Cadbury Schweppes, PLC. Gas cylinder coupling and weighting mechanism for a carbonated drink dispenser. 4,712,713, 12-15-87, Cl. 222-3.000.

Karls, Michael A.: *See*—

Frazzell, Michael E.; and Karls, Michael A., 4,636,175, Cl. 440-88.000.

Karlsson, Anders: *See*—

Brandt, Nils, and Karlsson, Anders, 4,646,304, Cl. 324-79.00R.

Karlsson, Axel T.; and Stand, Mille. Thermal spray apparatus for coating a substrate with molten fluent material. 4,694,990, 9-22-87, Cl. 239-81.000.

Karlsson, Bengt; and Niemiaho, Lauri. Quick coupling attachment for operating tools. 4,663,866, 5-12-87, Cl. 37-117.500.

Karlsson, Bjorn G.; and Jonsson, Ingvar. Microprocessor based energy consumption meter. 4,701,698, 10-20-87, Cl. 324-116.000.

Karlsson, Erik: *See*—

Bystrom, Karl; Karlsson, Erik; Kihlberg, Gunnar; and Reit, Henry, 4,646,010, Cl. 324-208.000.

Karlsson, Goran: *See*—

Kratz, Christer; Engstrom, Ake; and Karlsson, Goran, 4,642,427, Cl. 200-16.00C.

Karlsson, Goran R., and Karnevi, John H. S., to Telefonaktiebolaget LM Ericsson. Monopulse feeder for transmitting and receiving radar signals within two mutually separated frequency bands. 4,639,731, 1-27-87, Cl. 342-147.000.

Karlsson, Gosta, to B & D Autolines AB. Method and apparatus for dividing and further treatment of units of goods. 4,693,154, 9-15-87, Cl. 83-161.000.

Karlsson, Hakan I.: *See*—

Strom, Valter E.; Johansson, Bo-Lennart I.; Karlsson, Hakan I.; and Ostman, Thomas, 4,655,093, Cl. 73-862.410.

Karlsson, Jan, to KB Vindkraft i Goteborg. Improvements in wind turbine having a wing-profiled diffusor. 4,684,316, 8-4-87, Cl. 415-2.00A.

Karlsson, Jan: *See*—

Westin, Johnny; Karlsson, Jan, and Abelson, Perove, 4,646,726, Cl. 128-80.00H.

Karlsson, Karl-Anders: *See*—

Lloyd, Kenneth O.; Old, Lloyd J.; Karlsson, Karl-Anders; Larson, Goran; Stromberg, Nicklas; Thurin, Jan; Anger, Bernd R.; and Oettgen, Herbert F., 4,678,747, Cl. 435-7.000.

Karlsson, Kurt O., and Karlsson, Leif E., to Santrade Limited. Drill and cutting insert therefor. 4,648,760, 3-10-87, Cl. 408-223.000.

Karlsson, Leif E.: *See*—

Karlsson, Kurt O., and Karlsson, Leif E., 4,648,760, Cl. 408-223.000.

Karlsson, Ove; Ostling, Sture; and Adolfsson, Rune, to SKF Mekanprodukter AB. Bearing arrangement with a seal. 4,697,937, 10-6-87, Cl. 384-486.000.

Karlsson, Per J., and Sundstrom, Nils E., to Norbar Torque Tools Ltd. Reversible torqoe converter. 4,649,774, 3-17-87, Cl. 74-751.000.

Karlstedt, Johan H. Method and device for operation of a heating plant. 4,687,133, 8-18-87, Cl. 237-2.00B.

Karmar Research Partnership: *See*—

Craine, Eric R.; Forbes, David; Sargent, Thomas A.; and Scott, John S., 4,634,882, Cl. 250-578.000.

Karmazin, Jan E. I. Device for fastening a closed casing. 4,710,051, 12-1-87, Cl. 403-227.000.

Karmon, Mordechai: *See*—

Hasson, David; and Karmon, Mordechai, 4,678,685, Cl. 427-235.000.

Karna, Anssi; and Liimatainen, Heikki, to Oy Tampella Ab. Method for determining the properties of fiber pulp. 4,662,991, 5-5-87, Cl. 162-49.000.

Karnavas, Alexander G.; and Estrin, Jorge A., to University of Minnesota, Regents of the. Apparatus and method for rapid infusion of circulatory supportive fluids. 4,705,508, 11-10-87, Cl. 604-113.000.

Karnel Corporation: *See*—

Stauffer, Nelson R., 4,693,766, Cl. 156-64.000.

Karner, Gary M., to Atlantic Richfield Company. Control system for inclined impact-type surface seismic source. 4,683,558, 7-28-87, Cl. 367-189.000.

Karnesky, Richard A.: *See*—

Christiansen, David W.; Karnesky, Richard A.; Precechtel, Donald R.; Smith, Bob G.; and Knight, Ronald C., 4,654,194, Cl. 376-443.000.

Christiansen, David W.; and Karnesky, Richard A., 4,710,343, Cl. 376-414.000.

Karnevi, John H. S.: *See*—

Karlsson, Goran R., and Karnevi, John H. S., 4,639,731, Cl. 342-147.000.

Karning, Heinrich; Prein, Franz; and Vierling, Karl-Heinz. TE laser amplifier. 4,677,637, 6-30-87, Cl. 372-83.000.

Karning, Heinrich: *See*—

Prein, Franz; and Karning, Heinrich, 4,651,324, Cl. 372-59.000.

Karnitscher, Tamas: *See*—

David, Dezso; Rovo, Peter; Sipos nee Richter, Terez; Molnar, Gyorgy; Deme, Istvan; and Karnitscher, Tamas, 4,713,078, Cl. 8-94.150.

Karnopp, Dean: *See*—

Heess, Gerhard; Karnopp, Dean; and van Zanten, Anton, 4,714,300, Cl. 303-115.000.

Karnovsky, Manfred J.; Krueger, James M.; and Pappenheimer, John R., to President & Fellows of Harvard College. Sleep inducing agents. 4,668,661, 5-26-87, Cl. 514-8.000.

Karnovsky, Manfred L.: *See*—

Krueger, James M.; Pappenheimer, John R.; Karnovsky, Manfred L.; Lefrancier, Pierre; Choay, Jean; Chedid, Louis; and Lederer, Edgar, 4,698,330, Cl. 514-19.000.

Karnowsky, Maurice M.; and Yost, Frederick G., to United States of America, Energy. Mercury switch with non-wettable electrodes. 4,652,710, 3-24-87, Cl. 200-235.000.

Karns, John L. Auxiliary mirror system. 4,664,489, 5-12-87, Cl. 350-631.000.

Karo, Jorma H., to Karolon Oy. Method of producing scaffolds. 4,634,487, 1-6-87, Cl. 156-256.000.

Karol, Frederick J.: *See*—

Cann, Kevin J.; Miles, David L.; and Karol, Frederick J., 4,670,526, Cl. 526-125.000.

Wagner, Burkhard E.; Karol, Frederick J.; Goeke, George L.; Jorgensen, Robert J.; and Friis, Nils, 4,684,703, Cl. 526-88.000.

Karol, Thomas J.; Magaha, Harold S.; and Schlicht, Raymond C., to Texaco Inc. Anti-friction additives for lubricating oils. 4,647,389, 3-3-87, Cl. 252-51.50A.

Karolon Oy: *See*—

Karo, Jorma H., 4,634,487, Cl. 156-256.000.

Kaross, Klaus: *See*—

Rogge, Bernd; Kaross, Klaus; Busack, Hans-Jurgen; and Lungu, Mihail, 4,663,959, Cl. 73-1.00G.

Karoubas, Konstantinos I., to Roll Form Products, Inc. Metal decking. 4,675,238, 6-23-87, Cl. 428-599.000.

Karow, Peter, to Dr. Ing. Rudolf Hell GmbH. Method and apparatus for checking the quality of composings for printing products, in particular newspapers. 4,667,247, 5-19-87, Cl. 358-280.000.

Karp, Joel A.; and Lee, Ilbok, to Visic, Inc. Dynamic RAM memory. 4,675,848, 6-23-87, Cl. 365-189.000.

Karp, Joel A.: *See—*

  Logwood, Dennis J.; Haq, Mohammed E. U.; Reed, John A.; and Karp, Joel A., 4,679,171, Cl. 365-154.000.

Karp, S. Joel. Power failure responsive warning device. 4,642,605, 2-10-87, Cl. 340-130.000.

Karpa, Michael J. Device and procedure for testing heavy capacity scales. 4,658,921, 4-21-87, Cl. 177-50.000.

Karpati, Egon: *See—*

  Megyeri, Gabor; Keve, Tibor; Stefko, Bela; Bogsch, Erik; Galambos, Janos; Kassainee Zieger, Anna; Trischler, Ferenc; Palosi, Eva; Groo, Dora; Karpati, Egon; Szombathelyi, Zsolt; Szporny, Laszlo ; Kiss, Bela; Laszlovszky, Istvan; and Lapis, Erzsebet, 4,681,887, Cl. 514-284.000.

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Karpf, Kurt; and Bobst, Franz, to Emil Schenker AG. Pneumatic impact tool. 4,651,833, 3-24-87, Cl. 173-136.000.

Karpf, Kurt, to Emil Schenker AG. Prosthesis of the hip. 4,657,552, 4-14-87, Cl. 623-23.000.

Karpiak, Stephen E.: *See—*

  Tamir, Hadassah; Karpiak, Stephen E.; and Wilchek, Meir, 4,658,038, Cl. 548-495.000.

Karpisek, Ladislav S. Wheeled trolley frame. 4,639,002, 1-27-87, Cl. 280-5.200.

Karpisek, Ladislav S. Liquid containers. 4,653,658, 3-31-87, Cl. 217-43.00A.

Karpisek, Ladislav S. Tubular conveyor. 4,681,214, 7-21-87, Cl. 198-819.000.

Karplus, Kevin J.: *See—*

  Strong, Alexander R.; and Karplus, Kevin J., 4,649,783, Cl. 84-1.010.

Karpusiewicz, William: *See—*

  Irwin, Charles F.; Karpusiewicz, William; and Liberati, Patricia, 4,711,748, Cl. 264-117.000.

  McCallion, Elizabeth J.; Karpusiewicz, William; and Irwin, Charles F., 4,655,782, Cl. 8-111.000.

Karr, Dennis K., to North American Philips Corporation. Miniature thermal switch elongated bimetallic element. 4,660,016, 4-21-87, Cl. 337-372.000.

Karr, Dieter: *See—*

  Brauer, Ilan; Bruggen, Gerhard; and Karr, Dieter, 4,660,523, Cl. 123-458.000.

Karr, Michael A., Jr.; and Zwiegel, John M., to Gray Tool Company. Fail-safe valve actuator. 4,643,390, 2-17-87, Cl. 251-63.600.

Karr, Michael A., III; and Levinson, Frank H., to Bell Communications Research, Inc. Interconnection of optical fiber cables. 4,647,146, 3-3-87, Cl. 350-96.150.

Karr, Roger W.: *See—*

  James, Steven P.; Karr, Roger W.; and Swanson, Gary L., 4,697,572, Cl. 126-343.50R.

Karr, Steven G.: *See—*

  Hodsoll, Raymond J., Jr.; Karr, Steven G.; Leue, William M.; Smith, Lowell S.; Redington, Rowland W.; Bottomley, Paul A.; and Edelstein, William A., 4,667,159, Cl. 324-309.000.

  O'Donnell, Matthew; Karr, Steven G.; Barber, William D.; Wang, Jish M.; and Edelstein, William A., 4,680,551, Cl. 324-320.000.

Karra, Vijia K.; and Magerowski, Anthony J., to Rexnord Inc. Method and apparatus for energy efficient comminution. 4,671,464, 6-9-87, Cl. 241-21.000.

Karra, Vijia K.: *See—*

  Sawant, Ulhas S.; Karra, Vijia K.; and Kaja, Dean M., 4,697,745, Cl. 241-30.000.

Karraker, James L.: *See—*

  Lawhon, Robert A.; and Karraker, James L., 4,659,356, Cl. 65-27.000.

Karrer, Fritz. Method of and an apparatus for drying fibrous material. 4,702,014, 10-27-87, Cl. 34-15.000.

Karrman, Mats I.: *See—*

  Wennersten, Lars H.; and Karrman, Mats I., 4,651,147, Cl. 340-802.000.

Karsai, Jozsef: *See—*

  Balint, Sandor; Benczik nee Pasztor, Judit; Fodor, Jozsef; Horvath, Andras; Tomordi, Elemer; Soptei, Csaba; Karsai, Jozsef; Sebestyen, Endre; Gaal, Sandor; Gardi, Ivan; Kiss, Gyorgy; Papp, Andrass; and Csatlos, Imre, 4,668,274, Cl. 71-86.000.

Karsh, Herbert; and Calaway, Ward M., to Eastman Kodak Company. Signal correction apparatus. 4,641,324, 2-3-87, Cl. 375-76.000.

Kartchner, Earl M.; Price, Robert; and Van Horn, Gary R., to Sperry Corporation. System for the acquisition of code signals. 4,638,494, 1-20-87, Cl. 375-2.200.

Kartchner, Niles R.; and McClellan, Joe D. Motorcycle front fork dust cover. 4,676,518, 6-30-87, Cl. 280-276.000.

Kartell SpA: *See—*

  David, Peggy F. M., 4,696,775, Cl. 261-1.000.

Karth, Beat: *See—*

  Lamping, Alfons; Karth, Beat; and Hiltbrunner, Werner, 4,673,601, Cl. 428-35.000.

  Lamping, Alfons; and Karth, Beat, 4,693,385, Cl. 215-232.000.

Kartheus, Holger: *See—*

  Pietsch, Hanns; Kartheus, Holger; and Reul, Helmut, 4,643,732, Cl. 623-2.000.

Kartridg Pak Co., The: *See—*

  Roberts, Gary F., 4,691,627, Cl. 99-450.600.

  Woodworth, Gary C.; and Roberts, Gary F., 4,638,729, Cl. 99-450.600.

Kartte, Klaus: *See—*

  Biffar, Werner; Hofstadt, Otto; Kartte, Klaus; Thomas, Erwin; and Weiss, Franz-Josef, 4,659,683, Cl. 502-24.000.

Karuishi, Kazuhiro: *See—*

  Yokota, Yuuji; and Karuishi, Kazuhiro, 4,669,896, Cl. 400-120.000.

Karuzas, Jonas. Bottle opener and lighter cover. 4,642,827, 2-17-87, Cl. 7-151.000.

Karwat, Heinz: *See—*

  Ranke, Gerhard; and Karwat, Heinz, 4,668,488, Cl. 423-210.000.

Karwoski, Stanley G.: *See—*

  Mommsen, Gordon V.; Fender, Norman N.; Karwoski, Stanley G; Scherer, William C.; and Lind, Robert J., 4,679,734, Cl. 239-692.000.

Karwoski, Theodore: *See—*

  Herweck, Steve A.; and Karwoski, Theodore, 4,652,263, C 623-1.000.

Karwowski, Jan, to Nabisco Brands, Inc. Method of preparing instant, flaked, wheat farina. 4,664,931, 5-12-87, Cl. 426-621.000.

Karydas, Athanasios; and Falk, Robert A., to Ciba-Geigy Corporation. Sulfido- and sulfo-substituted perfluoroalkyl pyromellitates. 4,647,284, 3-3-87, Cl. 8-115.560.

Karzmer, David L. Method of making a flooring material. 4,666,5 5-19-87, Cl. 156-94.000.

Kasa-Technoplan GmbH: *See—*

  Nickel, Klaus-Dietrich, 4,635,572, Cl. 110-343.000.

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Kasahara, Masatoshi: *See—*

  Kuwabara, Tadashi; Matsuda, Yasumasa; Kasahara, Masatosh Mukumoto, Kyoji; and Tokunaga, Kazuyoshi, 4,672,398, Cl. 346-140.00R.

Kasahara, Noboru: *See—*

  Atsumi, Haruyuki; Anzai, Hisatugu; and Kasahara, Noboru, 4,715,146, Cl. 49-1.000.

  Katagiri, Fujio; Atsumi, Haruyuki; Anzai, Hisatugu; and Kasahara, Noboru, 4,656,690, Cl. 16-48.500.

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  Sugiyama, Masami; and Kasahara, Yasushi, 4,634,763, Cl. 530-375.000.

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  Suzuki, Takashi; and Kasai, Hiroshi, 4,664,215, Cl. 180-226.000.

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  Rosbeck, Joseph P.; and Kasai, Ichiro, 4,639,756, Cl. 357-30.000.

- Kasai, Isao: *See*—
  - Ueda, Shigeki; Hatagawa, Toyotsugu; and Kasai, Isao, 4,686,356, Cl. 219-482.000.
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- Kasai, Junichi; Imai, Hiroshi; and Tsuda, Hiroshi, to Nissan Motor Company, Limited. Automotive multi-speaker audio system with automatic echo-control feature. 4,694,497, 9-15-87, Cl. 381-63.000.
- Kasai, Junichi; Imai, Hiroshi; and Tsuda, Hiroshi, to Nissan Motor Company, Limited. Stereo signal reproducing system. 4,703,502, 10-27-87, Cl. 381-24.000.
- Kasai, Kazumi, to Nippon Notion Kogyo Co., Ltd. Adjustable strap fastener. 4,637,099, 1-20-87, Cl. 24-200.000.
- Kasai, Kazumi, to Nippon Notion Kogyo Co., Ltd. Releasable buckle. 4,639,982, 2-3-87, Cl. 24-61[illegible].000.
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- Kasai, Kazumi, to Nippon Notion Kogyo Co., Ltd. Swivel snap hook of synthetic resin. 4,665,592, 5-19-87, Cl. 24-236.000.
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- Kasai, Kenjiro: *See*—
  - Okamoto, Isao; Hiraishi, Motomi; Takai, Hideo; Kasai, Kenjiro; and Terada, Katsuyuki, 4,715,289, Cl. 105-199.000.
- Kasai, Kiyoshi; Hattori, Masayuki; Kikuchi, Osamu; Takeuchi, Hiromi; Hirai, Haruhiro; and Sakurai, Nobuo, to Japan Synthetic Rubber Co., Ltd. Process for preparing large-sized polymer particles. 4,694,035, 9-15-87, Cl. 524-458.000.
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- Kasai, Masaaki; and Ishikawa, Kenji, to Terumo Kabushiki Kaisha. Medical container stopper. 4,664,275, 5-12-87, Cl. 215-247.000.
- Kasai, Masaaki; and Ishikawa, Kenji, to Terumo Kabushiki Kaisha. Stopper for medical container. 4,682,703, 7-28-87, Cl. 215-247.000.
- Kasai, Masaji: *See*—
  - Shirahata, Kunikatsu; Kono, Motomichi; Saito, Yutaka; Kasai, Masaji; Morimoto, Makoto; and Ashizawa, Tadashi, 4,691,024, Cl. 548-422.000.
  - Yamato, Masayuki; Kase, Hiroshi; Kawamoto, Isao; Kasai, Masaji; Shirahata, Kunikatsu; Deguchi, Takashi; Shuto, Katsuichi; Karasawa, Akira; Okachi, Ryo; and Nakayama, Kiyoshi, 4,683,220, Cl. 514-7.000.
- Kasai, Masuo: *See*—
  - Tsuyoshi, Toshiaki; Yonezawa, Seiji; Kasai, Masuo; and Uno, Motoo, 4,710,909, Cl. 369-46.000.
- Kasai, Minoru; Oka, Takao; Takamagari, Munenori; Shibata, Chiyoji; and Nakamura, Minoru, to Fukutome Meat Packers, Ltd.; and Hitec Co., Ltd. Method and apparatus for automatically suspending sausages from a bar. 4,682,385, 7-28-87, Cl. 17-45.000.
- Kasai, Naomi, to Nippon Thompson Co., Ltd. Roller bearing for an infinite rectilinear motion. 4,692,037, 9-8-87, Cl. 384-44.000.
- Kasai, Naomi, to Nippon Thompson Co., Ltd. Linear motion rolling contact bearing assembly having a load dependent variable resistance. 4,692,038, 9-8-87, Cl. 384-45.000.
- Kasai, Shin; Waketa, Hideharu; Kato, Keiichi; and Kawaguchi, Yutaka, to Nitto Boseki Co., Ltd. Substrate for printed circuit. 4,707,565, 11-17-87, Cl. 174-68.500.
- Kasai, Syozi: *See*—
  - Hirotsu, Tetsuji; Kiwaki, Hisakatsu; Nakamura, Kiyoshi; Narita, Hiroshi; Kasai, Syozi; Kimura, Akira; and Tsutsui, Yoshio, 4,701,682, Cl. 318-52.000.
- Kasai, Takashi: *See*—
  - Mino, Kaoru; Fukushima, Koji; and Kasai, Takashi, 4,715,609, Cl. 277-207.00R.
- Kasai, Tatsushi; Niikura, Tatsuo; Sato, Masanori; Hashimoto, Takao; and Yamashita, Akiya, to Tsukishima Kikai Co., Ltd.; and Sumitomo Metal Industries, Ltd. System for dissolution-purification of Zn-containing materials. 4,689,146, 8-25-87, Cl. 210-197.000.
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- Kasai, Toshihiro, to Kabushiki Kaisha Toshiba. Developing apparatus. 4,641,602, 2-10-87, Cl. 118-653.000.
- Kasai, Toshihiro: *See*—
  - Kohyama, Mitsuaki; Kasai, Toshihiro; Ishida, Haruhiko; and Shimazaki, Takashi, 4,645,330, Cl. 355-14.00R.
  - Kohyama, Mitsuaki; Ishida, Haruhiko; Kasai, Toshihiro; and Osawa, Shigenobu, 4,647,181, Cl. 355-4.000.
- Kasai, Toshiyuki: *See*—
  - Mizutani, Norio; and Kasai, Toshiyuki, 4,648,695, Cl. 353-28.000.
- Kasai, Yoshihiko: *See*—
  - Kimura, Katsuji; Kasai, Yoshihiko; Yokoyama, Yukio; Yamasaki, Koji; and Sato, Toshifumi, 4,680,553, Cl. 330-2.000.
- Kasai, Yoshio: *See*—
  - Ohtomo, Seiya; Aoki, Minoru; and Kasai, Yoshio, 4,664,615, Cl. 425-215.000.
- Kasama, Nobuhiro: *See*—
  - Inoue, Yutaka; Kurata, Mitsuru; Kasama, Nobuhiro; Hosaka, Masao; Yagasaki, Toshiaki; Tanioka, Hiroshi; and Yamakawa, Tadashi, 4,714,940, Cl. 355-3.00R.
  - Tanioka, Hiroshi; Yamakawa, Tadashi; Inoue, Yutaka; Hosaka, Masao; Yagasaki, Toshiaki; Kasama, Nobuhiro; and Kurata, Mitsuru, 4,646,249, Cl. 364-518.000.
- Kasamatsu, Tadashi. Film-forming T die for low viscosity resin. 4,708,629, 11-24-87, Cl. 425-466.000.
- Kasami, Hiroyuki: *See*—
  - Yanagida, Seiichi; Kiuchi, Takao; and Kasami, Hiroyuki, 4,654,729, Cl. 360-93.000.
- Kasanami, Mitsuru; and Tamura, Hideyuki, to Nissan Motor Company, Limited. Fuel control apparatus for internal combustion engine. 4,706,632, 11-17-87, Cl. 123-492.000.
- Kasanami, Toru; Tani, Hiroji; Watanabe, Shizuharu; and Ikeda, Toshiaki, to Murata Manufacturing Co., Ltd. Resistance paste. 4,693,843, 9-15-87, Cl. 252-518.000.
- Kasaoka, Katsuyuki: *See*—
  - Sasaki, Yoshiyuki; and Kasaoka, Katsuyuki, 4,684,566, Cl. 428-224.000.
  - Sasaki, Yoshiyuki; and Kasaoka, Katsuyuki, 4,698,260, Cl. 428-399.000.
- Kasasumi Laboratories, Inc.: *See*—
  - Kawano, Takumi, 4,666,543, Cl. 156-169.000.
- Kasboske, George C. Vehicle headlamp with fog penetrating capability. 4,644,452, 2-17-87, Cl. 362-214.000.
- Kasboske, George C., to Quintech Corporation. Multiple color lamp. 4,713,736, 12-15-87, Cl. 362-214.000.
- Kasch, Hellmuth: *See*—
  - Fischer, Kurt; Petersen, Harro; Kasch, Hellmuth; and Wistuba, Eckehardt, 4,644,028, Cl. 524-376.000.
  - Fischer, Kurt; Petersen, Harro; Loch, Werner; Kasch, Hellmuth; and Wistuba, Eckehardt, 4,663,379, Cl. 524-376.000.
- Kaschak, Ronald A.: *See*—
  - Capwell, Robert J.; Kaschak, Ronald A.; McBride, Donald G.; Rickert, Robert G.; and Seraphim, Donald P., 4,707,377, Cl. 427-8.000.
  - Fey, Edmond O.; Haselbauer, Peter; Jung, Dae Y.; Kaschak, Ronald A.; Kilthau, Hans-Dieter; Magnuson, Roy H.; and Wagner, Robert J., 4,684,545, Cl. 427-98.000.
- Kaschek, Renate: *See*—
  - Ricke, Erwin; and Kaschek, Renate, 4,687,489, Cl. 8-506.000.
- Kaschemekat, Jurgen: *See*—
  - Hilgendorff, Walter; Kahn, Gerhard; and Kaschemekat, Jurgen, 4,695,380, Cl. 210-347.000.
- Kaschig, Jurgen; and Finter, Jurgen, to Ciba-Geigy Corporation. Radiation-sensitive polymers which form a metal complex, process for the polymerization of acetylene, and coated material. 4,713,422, 12-15-87, Cl. 525-326.700.
- Kaschube, Karl F.: *See*—
  - Brandenstein, Manfred; Meining, Hans; and Kaschube, Karl F., 4,652,152, Cl. 384-4[illegible]6.000.
- Kasday, Leonard R., to American Telephone and Telegraph Company, AT&T Information Systems Inc. Photoelastic touch-sensitive screen. 4,710,760, 12-1-87, Cl. 340-712.000.
- Kase, Hiroshi; Matsuda, Yuzuru; Kawamoto, Isao; Asano, Kozo; Shirahata, Kunikatsu; Yasuzawa, Tohru; and Yamada, Koji, to Kyowa Hakko Kogyo Kabushiki Kaisha. Substance K-259-2 and a process for producing the same. 4,692,310, 9-8-87, Cl. 424-122.000.
- Kase, Hiroshi: *See*—
  - Teranishi, Masayuki; Suzuki, Koji; Kase, Hiroshi; Kitamura, Shigeto; Shuto, Katsuichi; and Omori, Kenji, 4,657,916, Cl. 514-312.000.
  - Teranishi, Masayuki; Takahashi, Mitsuru; Nomoto, Hisayo; Kase, Hiroshi; Shuto, Katsuichi; Kubo, Kazuhiro; and Karasawa, Akira, 4,677,125, Cl. 514-7.000.
  - Yamato, Masayuki; Kase, Hiroshi; Kawamoto, Isao; Kasai, Masaji; Shirahata, Kunikatsu; Deguchi, Takashi; Shuto, Katsuichi; Karasawa, Akira; Okachi, Ryo; and Nakayama, Kiyoshi, 4,683,220, Cl. 514-7.000.
- Kase, Mitsuo; Okoshi, Noboru; and Tsuyuzaki, Kazue, to Dainippon Ink and Chemicals, Inc. Process for producing polyisocyanate and resin composition comprising said polyisocyanate for use in paints. 4,647,623, 3-3-87, Cl. 525-123.000.
- Kase, Takao: *See*—
  - Miyamoto, Takeshi; Ura, Mikio; Kazama, Shigenori; Kase, Takao; and Maeda, Yoshiko, 4,645,307, Cl. 350-357.000.
- Kase, Toshio: *See*—
  - Aonuma, Mitsuyoshi; Watanabe, Hiroyuki; Kawada, Haruki; Noguchi, Kohkichi; Ueda, Akio; Akita, Shuichi; Ohyama, Tetsuo; and Kase, Toshio, 4,647,625, Cl. 528-232.000.
- Kase, Walter: *See*—
  - Specht, Hans; and Kase, Walter, 4,685,190, Cl. 29-452.000.
- Kasei Optonix, Ltd.: *See*—
  - Aoki, Yuji; Horiuchi, Hidenaga; Umemoto, Akio; and Miura, Norio, 4,696,868, Cl. 428-690.000.
  - Koizumi, Yuichiro; Nojima, Masaki; and Shimiya, Kenji, 4,701,622, Cl. 250-486.100.
  - Minagawa, Yukinori; Tanaka, Minoru; Matsuo, Keiko; and Shimizu, Etsuo, 4,689,277, Cl. 428-690.000.
  - Naitou, Masaru; Yoshikawa, Masatake; and Narita, Kinichiro, 4,650,652, Cl. 423-21.100.
- Kasei Verbatim Corporation: *See*—
  - Hiramatsu, Kenichi; Nozawa, Hidebumi; and Yamauchi, Takashi, 4,687,536, Cl. 156-556.000.
- Kasemo, Bengt: *See*—
  - Branemark, Per-Ingvar; Kasemo, Bengt; and Lausmaa, Jukka, 4,712,681, Cl. 206-438.000.

Kaser Associates, Inc.: *See*—

Guins, Sergei G., 4,657,611, Cl. 156-157.000.

Kasevich Associates, Inc.: *See*—

Kasevich, Raymond S.; McQueeney, James F.; and Crooker, Ronald H., 4,700,716, Cl. 128-804.000.

Kasevich, Raymond S.; McQueeney, James F.; and Crooker, Ronald H., to Kasevich Associates, Inc. Collinear antenna array applicator. 4,700,716, 10-20-87, Cl. 128-804.000.

Kaseya, Akinori: *See*—

Takai, Kiyoshi; and Kaseya, Akinori, 4,690,327, Cl. 239-226.000.

Kash, Albert. Acoustic imager. 4,701,951, 10-20-87, Cl. 381-24.000.

Kash, Jeffrey A.: *See*—

Beha, Johannes G.; Dreyfus, Russell W.; Kash, Jeffrey A.; and Rebloff, Gary W., 4,703,260, Cl. 324-158.00R.

Kasha, Walter J.; and Burnison, Chantal S., to CBD Corporation. Oxygenated alkyl substituted bicyclo alkanes. 4,689,345, 8-25-87, Cl. 514-546.000.

Kasha, Walter J., and Burnison, Chantal S., to CBD Corporation. Anti-tumor halo bicyclo alkanones. 4,689,349, 8-25-87, Cl. 514-691.000.

Kashida, Motokazu: *See*—

Masui, Toshiyuki; Hirasawa, Masahide; Kozuki, Susuma; Kashida, Motokazu; Takei, Masahiro; and Nagasawa, Kenichi, 4,675,867, Cl. 371-31.000.

Takei, Masahiro; Kozuki, Susumu; Masui, Toshiyuki; Hirasawa, Masahide; and Kashida, Motokazu, 4,696,008, Cl. 371-47.000.

Kashigi, Kazuo, to NEC Corporation. Video signal storage apparatus for NTSC system. 4,689,660, 8-25-87, Cl. 358-11.000.

Kashigi, Kazuo: *See*—

Inaba, Masao; and Kashigi, Kazuo, 4,673,975, Cl. 380-14.000.

Kashihara, Junzo: *See*—

Iida, Hiroyuki; Murakami, Haruhiko; Matsumoto, Tsuyoshi; and Kashihara, Junzo, 4,711,313, Cl. 177- 27.000.

Kashihara, Takanobu: *See*—

Hasegawa, Takahiro; Kashihara, Takanobu; and Nishimura, Akira, 4,663,315, Cl. 514-86.000.

Kashihara, Yoshihiko: *See*—

Hirata, Tadashi; Ikeda, Hidekatsu; Arima, Yoshitaka; and Kashihara, Yoshihiko, 4,679,473, Cl. 83-157.000.

Kashihara, Yuji: *See*—

Taga, Yutaka; Kubo, Seitoku; Kashihara, Yuji; Morisawa, Kunio; Takada, Mitsuru; and Nakamura, Yasunari, 4,702,341, Cl. 180-249.000.

Kashima Engineering Co., Ltd.: *See*—

Koyase, Hiroyasu; Funaki, Kinsaku; and Morita, Atsuo, 4,642,138, Cl. 134-22.180.

Kashima, Kazutsugu: *See*—

Miyazaki, Kenji; Hagio, Tsuyoshi; Ogawa, Ichitaro; Yoshida, Hisayoshi; Kobayashi, Kazuo; Kashima, Kazutsugu; Tada, Takashi; Hayashi, Yoichiro; and Abe, Wataru, 4,637,884, Cl. 252-12.000.

Kashima, Koichi: *See*—

Nagao, Teruyuki; Kawamura, Yuji; and Kashima, Koichi, 4,696,340, Cl. 165-58.000.

Kashima, Masataka: *See*—

Inoue, Norihiro; Tominaga, Shinji; Kashima, Masataka; and Nakamura, Ikushi, 4,645,325, Cl. 354-484.000.

Kashima, Osamu; and Shibata, Masamichi, to Nippondenso Co., Ltd. Ignition apparatus for internal combustion engines. 4,658,774, 4-21-87, Cl. 123-169.00E.

Kashimura, Makoto; and Kimura, Tetsuo, to Canon Kabushiki Kaisha. Automatic sheet feeding system for recording apparatus. 4,699,366, 10-13-87, Cl. 271-4.000.

Kashimura, Masahiko, to NEC Corporation. Programmable logic array circuit. 4,661,728, 4-28-87, Cl. 307-468.000.

Kashimura, Masato: *See*—

Morimoto, Shigeo; Adachi, Takashi; Asaka, Toshifumi; Kashimura, Masato; Watanabe, Yoshiaki; and Sota, Kaoru, 4,670,549, Cl. 536-7.400.

Kashimura, Noritake; and Saitoh, Hiroaki, to Dai-Ichi Seiko Co., Ltd. Optical connector for optical fiber cables. 4,636,034, 1-13-87, Cl. 350-96.210.

Kashimura, Tetsuo: *See*—

Mori, Takanobu; Fukui, Yutaka; Kashimura, Tetsuo; and Yanai, Yoshimi, 4,642,495, Cl. 310-52.000.

Kashimura, Yuichi; Sugiura, Noboru; Ishii, Toshio; Shida, Masami; Teragakiuchi, Akira; and Mouri, Yasunori, to Hitachi, Ltd. Ignition timing control apparatus for an internal combustion engine having a plurality of cylinders. 4,676,212, 6-30-87, Cl. 123-425.000.

Kashio, Jiro: *See*—

Nakayashiki, Susumu; Kashio, Jiro; and Harakawa, Takeshi, 4,672,607, Cl. 370-88.000.

Kashio, Yoshiaki, to Honda Giken Kogyo Kabushiki Kaisha. Upholstery material for seats and method of making the same. 4,634,486, 1-6-87, Cl. 156-253.000.

Kashio, Yoshiaki: *See*—

Mogi, Tomonori; and Kashio, Yoshiaki, 4,712,637, Cl. 180-219.000.

Kashioka, Motohiko: *See*—

Katsura, Hiromitsu; Ehashi, Shigeyuki; Kashioka, Motohiko; and Sakamoto, Makoto, 4,664,714, Cl. 106-308.00N.

Kashioka, Seiji: *See*—

Fukushima, Tadashi; Kobayashi, Yoshiki; Okuyama, Yoshiyuki; Katoh, Takeshi; and Kashioka, Seiji, 4,665,556, Cl. 382-41.000.

Kashiwa Co., Ltd.: *See*—

Hodate, Tomoshi; and Nitta, Haruyoshi, 4,662,839, Cl. 431-115.000.

Kashiwa, Michiaki: *See*—

Kurosu, Noriaki; Ohmae, Masanori; and Kashiwa, Michiaki, 4,683,540, Cl. 364-468.000.

Kashiwa, Norio; and Fukui, Kunisuke, to Mitsui Petrochemical Industries, Ltd. Process for production of 4-methyl-1-pentene polymer or copolymer. 4,659,792, 4-21-87, Cl. 526-73.000.

Kashiwa, Norio; Kioka, Mamoru; Kohyama, Masaki; and Ishiyama, Masanobu, to Mitsui Petrochemical Industries, Ltd. Film-forming propylene copolymer, film thereof and process for production of the film. 4,668,753, 5-26-87, Cl. 526-348.000.

Kashiwa, Norio: *See*—

Kioka, Mamoru; and Kashiwa, Norio, 4,673,719, Cl. 526-125.000.

Kohyama, Masaki; Muranaka, Takeshi; Fukui, Kunisuke; and Kashiwa, Norio, 4,642,269, Cl. 428-516.000.

Tsutsui, Toshiyuki; Kioka, Mamoru; Toyota, Akinori; and Kashiwa, Norio, 4,704,491, Cl. 585-10.000.

Kashiwaba, Tadao, to Kabushiki Kaisha Sato. Cutter device for a film strip on a laminate. 4,680,083, 7-14-87, Cl. 156-510.000.

Kashiwaba, Tadao, to Kabushiki Kaisha Sato. Setting and winding mechanism for tape-like laminate in laminator. 4,709,868, 12-1-87, Cl. 242-56.00R.

Kashiwaba, Tadao: *See*—

Ono, Tsutomu; and Kashiwaba, Tadao, 4,706,095, Cl. 346-76.0PH.

Kashiwabara, Katsuaki: *See*—

Yamada, Mitsuhiko; Atoji, Hitomi; and Kashiwabara, Katsuaki, 4,656,505, Cl. 358-80.000.

Kashiwabara, Yoshihiro, to Nippon Thompson Co., Ltd. Linear motion rolling contact bearing assembly. 4,701,057, 10-20-87, Cl. 384-45.000.

Kashiwada, Masao: *See*—

Nara, Toshio; Hobo, Sumiya; Kashiwada, Masao; Totsuka, Motoyuki; Hoshiai, Takao; Umetani, Katsutoshi; Akamatsu, Keisuke; Inada, Tomohide; and Takayama, Hisao, 4,639,220, Cl. 433-69.000.

Kashiwada, Yasutoshi: *See*—

Chinone, Naoki; Tsuji, Shinji; Fujisaki, Yoshihisa; Kashiwada, Yasutoshi; and Hirao, Motohisa, 4,665,528, Cl. 372-96.000.

Kashiwagi, Akio: *See*—

Yahagi, Masakichi; Horiuchi, Shoichi; Toyama, Takahumi; Kashiwagi, Akio; Suzuki, Teruo; Igaki, Tetsuo; Horisawa, Kazuyuki; and Shoji, Mituhiro, 4,677,203, Cl. 546-15.000.

Kashiwagi, Akira: *See*—

Yamaguchi, Nobutaka; Fujiyama, Masaaki; Kato, Kazuo; and Kashiwagi, Akira, 4,647,503, Cl. 428-323.000.

Kashiwagi, Atsumi, to Fujimoto Photo Industrial Co., Ltd. Therapeutic tomographic system. 4,716,425, 12-29-87, Cl. 354-76.000.

Kashiwagi, Hiromi: *See*—

Goto, Ryuji; Kashiwagi, Hiromi; and Yamashita, Keitaro, 4,660,505, Cl. 118-689.000.

Kashiwagi, Hiroshi: *See*—

Iijima, Toshifumi; Kumashiro, Kenji; Kashiwagi, Hiroshi; Hatta, Koichi; Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; and Shinozaki, Kaoru, 4,665,015, Cl. 430-558.000.

Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; Iijima, Toshijumi; Kumashiro, Kenji; Kashiwagi, Hiroshi; Hatta, Koichi; Uchida, Takashi; Wada, Hajime; Ishii, Fumio; Matsunaga, Satoshi; Matsubara, Yasuko; and Shinozaki, Kaoru, 4,695,533, Cl. 430-558.000.

Takiguchi, Hideki; Yamada, Yoshitaka; Ohtani, Hirofumi; and Kashiwagi, Hiroshi, 4,701,405, Cl. 430-567.000.

Takiguchi, Hideki; Yamada, Yoshitaka; Ohtani, Hirofumi; and Kashiwagi, Hiroshi, 4,704,351, Cl. 430-567.000.

Kashiwagi, Katsuhiko: *See*—

Yamaguchi, Ikutoshi; Kashiwagi, Katsuhiko; Goto, Hideo; and Inoue, Susumu, 4,634,626, Cl. 428-312.400.

Kashiwagi, Kazuo: *See*—

Toda, Takao; Mizushima, Toshiaki; and Kashiwagi, Kazuo, 4,665,318, Cl. 250-570.000.

Kashiwagi, Masahiro: *See*—

Niwa, Yoshiyuki; Kashiwagi, Masahiro; Yasue, Masahiro; Bandoh, Shunichi; Kakinuma, Asao; and Wakatsuki, Tadashi, 4,676,720, Cl. 416-134.00A.

Kashiwagi, Shigeru, to Victor Company of Japan, Ltd. Circuit arrangement for correcting horizontal pincushion distortion using a voltage proportional to vertical sync period. 4,691,147, 9-1-87, Cl. 315-371.000.

Kashiwagi, Shigeru, to Victor Company of Japan, Ltd. Horizontal deflection circuit having a variable retrace period. 4,705,993, 11-10-87, Cl. 315-408.000.

Kashiwagi, Shigeru, to Victor Company of Japan, Ltd. Apparatus for linearity correction on horizontal deflection. 4,713,589, 12-15-87, Cl. 315-400.000.

Kashiwagi, Shigeru: *See*—

Maeda, Yoshihiko; Nogami, Toshiaki; Kashiwagi, Shigeru; Sakurai, Kenji; and Nishiyama, Kunio, 4,702,517, Cl. 296-214.000.

Kashiwagi, Toshihiro, to Anritsu Corporation. Multi-superheterodyne receiver. 4,661,995, 4-28-87, Cl. 455-183.000.

Kashiwagi, Tsutomu: *See*—

Nishimura, Yoshiaki; Okinoshima, Hiroshige; Yamada, Seiya; and Kashiwagi, Tsutomu, 4,650,849, Cl. 528-26.000.

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Kashiwagi, Yoshiyuki; Noda, Yasushi; and Kitakizaki, Kaoru, to Kabushiki Kaisha Meidensha. Vacuum interrupter. 4,659,885, 4-21-87, Cl. 200-144.00B.

Kashiwagi, Yoshiyuki; Noda, Yasushi, and Kitakizaki, Kaoru, to Kabushiki Kaisha Meidensha. Contact electrode material for vacuum interrupter and method of manufacturing the same. 4,686,338, 8-11-87, Cl. 200-264.000.

Kashiwagura, Toshimi, to Toyota Jidosha Kabushiki Kaisha. Method and apparatus for controlling air-fuel ratio in internal combustion engine. 4,655,179, 4-7-87, Cl. 123-326.000.

Kashiwai, Shinichi: *See—*
Masuhara, Yasuhiro; Utamura, Motoaki; Kashiwai, Shinichi; Yokoyama, Iwao; Murata, Shigeto; Nakao, Toshitsugu; and Maeda, Yuichiro, 4,663,116, Cl. 376-377.000.

Kashiwame, Josho; Otsuka, Yoshihiro; and Kozawa, Shigeyuki, to Asahi Glass Company Ltd. Aromatic polysulfone ether/polythioether sulfone copolymer and process for its preparation. 4,654,410, 3-31-87, Cl. 528-171.000.

Kashiwamura, Takayoshi, and Iwasaki, Ryoichi, to NHK Spring Co., Ltd. Pneumatically controlled seat for vehicle. 4,655,505, 4-7-87, Cl. 297-284.000.

Kashiwaya, Mineo: *See—*
Morita, Kiyomi; Kashiwaya, Mineo; and Sakamoto, Masahide, 4,644,923, Cl. 123-493.000.

Kashiwayanagi, Yuzo: *See—*
Ikeda, Masakiyo; Kojima, Seiji; Kikuchi, Hiroshi; and Kashiwayanagi, Yuzo, 4,705,700, Cl. 437-231.000.

Kashiwazaki, Masamichi; Ogawa, Kiichiro; and Uchida, Satoshi, to Mitsubishi Jukogyo Kabushiki Kaisha. Coal gasification composite power generator. 4,689,949, 9-1-87, Cl. 60-39.120.

Kashiwazaki, Masamichi: *See—*
Haneda, Hisao; Kashiwazaki, Masamichi; and Motai, Toshiki, 4,664,067, Cl. 122-7.00R.

Kashiwazaki, Susumu: *See—*
Nagasawa, Kiyoshi; Inoue, Toru; and Kashiwazaki, Susumu, 4,712,050, Cl. 318-254.000.

Kashkashian, Arsen, Jr. Multiple credit card system. 4,700,055, 10-13-87, Cl. 235-379.000.

Kashman, Yoel: *See—*
Harnik, Marcel; and Kashman, Yoel, 4,659,704, Cl. 514-172.000.

Kashu, Seiichiro: *See—*
Hayashi, Chikara; and Kashu, Seiichiro, 4,683,118, Cl. 419-23.000.

Kashy, David H.: *See—*
Beale, Michael C.; and Kashy, David H., 4,693,339, Cl. 181-255.000.

Kasik, Pavel: *See—*
Neufuss, Karel; Macku, Ales; Forejt, Antonin; and Kasik, Pavel, 4,707,379, Cl. 427-34.000.

Kasina, Sudhakar: *See—*
Fritzberg, Alan R.; and Kasina, Sudhakar, 4,670,545, Cl. 534-14.000.

Kasindorf, Barry: *See—*
Brisk, Richard; Kasindorf, Barry; and Stein, Alexander, 4,647,774, Cl. 250-338.000.

Kasiwade, Yoshiaki, to Kabushiki Kaisha Daiwa Industry. Apparatus for rotating and driving antenna device. 4,636,800, 1-13-87, Cl. 343-766.000.

Kaskel, Harold: *See—*
Genoa, Joseph; Kaskel, Harold; and Nelson, Carl, 4,652,063, Cl. 339-15.000.

Kasle, Leonard: *See—*
Lundy, Allen W.; and Kasle, Leonard, 4,694,559, Cl. 29-559.000.

Kasle Steel Corporation: *See—*
Lundy, Allen W.; and Kasle, Leonard, 4,694,559, Cl. 29-559.000.

Kasmark, James W., Jr.; Dooley, Myron L.; and Jones, Arthur H., to D-Mark, Inc. Method of making a gas phase permeable filter. 4,699,681, 10-13-87, Cl. 156-264.000.

Kasner, William H.; Cooper, Martin H.; Swenson, Clark E.; Ciez, Albert P., and Andrews, Katherine M., to Westinghouse Electric Corp. Laser beam transport system. 4,683,365, 7-28-87, Cl. 219-121.0LC.

Kasner, William H.; Bruck, Gerald J.; Miller, Richard A.; and Toth, Vincent A., to Westinghouse Electric Corp. Laser welding of a sleeve within a tube. 4,694,136, 9-15-87, Cl. 219-121.0LD.

Kasner, William H.: *See—*
Hawkins, Phillip J.; Kasner, William H.; and Miller, Richard A., 4,694,137, Cl. 219-121.0LC.

Kasori, Mitsuo: *See—*
Iwase, Nobuo; Anzai, Kazuo; Shinozaki, Kazuo; Tsuge, Akihiko; Saitoh, Kazutaka; Iyogi, Kiyoshi; Sato, Noboru; and Kasori, Mitsuo, 4,659,611, Cl. 428-209.000.

Kasori, Mituo; Shinozaki, Kazuo; Anzai, Kazuo; and Takano, Takeshi, to Kabushiki Kaisha Toshiba. Aluminum nitride sintered body. 4,698,320, 10-6-87, Cl. 501-96.000.

Kasos N.V.: *See—*
Gonzalez, Sergio, 4,685,779, Cl. 350-604.000.

Kaspar, Mark L.: *See—*
Grube, Herbert E.; Sciaraffa, Michael A.; Kaspar, Mark L.; and Kaczmarzyk, Leonard M., 4,655,761, Cl. 604-389.000.

Kaspar, Melvin C.: *See—*
Niekrasz, Francis M.; Kaspar, Melvin C.; and Bockwinkel, Gerald J., 4,656,781, Cl. 49-404.000.

Kaspar Wire Works, Inc.: *See—*
Aschenbeck, Weldon J.; and Medley, Frank W., III, 4,693,357, Cl. 194-202.000.

Kasper, James J.; and Jeffreys, John H., to Watteredge-Uniflex, Inc. Cable termination and method. 4,640,982, 2-3-87, Cl. 174-75.00R.

Kasper, Joseph G.; Field, Bruce F., Westrum, Keith R.; and Grimes, Charles E., to Tennant Company. Control and monitor for a floor maintenance device. 4,675,935, 6-30-87, Cl. 15-319.000.

Kasper, Joseph G.: *See—*
Field, Bruce F.; and Kasper, Joseph G., 4,679,271, Cl. 15-49.00C.

Kasper, Melvin C.: *See—*
Niekrasz, Francis M.; Kasper, Melvin C.; and Bockwinkel, Gerald J., 4,641,461, Cl. 49-404.000.

Kasperek, Peter: *See—*
Peters, Robert; Schulte, Klaus; Sachs, Hanns I.; and Kasperek, Peter, 4,652,595, Cl. 523-315.000.

Kasperkovitz, Wolfdietrich G.; and Van Rumpt, Herman W., to U.S. Philips Corporation. Frequency-doubling circuit. 4,639,679, 1-27-87, Cl. 328-20.000.

Kasperkovitz, Wolfdietrich G., and Meeuwis, Johannes C. M., to U.S. Philips Corporation. Level-shifting circuit. 4,642,482, 2-10-87, Cl. 307-264.000.

Kasperkovitz, Wolfdietrich G., to U.S. Philips Corporation. Current-discrimination arrangement. 4,709,163, 11-24-87, Cl. 307-297.000.

Kasperkovitz, Wolfdietrich G.: *See—*
Jongepier, Abraham; and Kasperkovitz, Wolfdietrich G., 4,636,663, Cl. 307-529.000.

Kaspers, Helmut; Duben, Jiri; and Gisi, Ulrich, to Sandoz Ltd. Fungicidal compositions of oxadixyl and anilazine and their use. 4,701,454, 10-20-87, Cl. 514-245.000.

Kasprzak, David P., to Celotex Corporation, The. Vinyl siding. 4,712,351, 12-15-87, Cl. 52-573.000.

Kasprzak, Kenneth A., to Dow Corning Corporation. Method for cleaning textiles with cyclic siloxanes. 4,685,930, 8-11-87, Cl. 8-139.100.

Kasprzak, Rolande: *See—*
Szydlo, Nicolas; Boulitrop, Francois; and Kasprzak, Rolande, 4,704,784, Cl. 437-41.000.

Kasprzyk, Donald J., to Honeywell Inc. Oil burner control for hydronic system. 4,690,324, 9-1-87, Cl. 237-8.00R.

Kass, Lawrence, to Cytocolor Incorporated. Method of staining and identifying cells and compositions thereof. 4,714,606, 12-22-87, Cl. 424-3.000.

Kassai, Kenzou, to Aprica Kassai Kabushikikaisha. Children's automobile-mounted safety seat. 4,634,185, 1-6-87, Cl. 297-487.000.

Kassai, Kenzou, to Aprica Kassai Kabushikikaisha. Spring cushioned caster having a spring biased locking member. 4,637,093, 1-20-87, Cl. 16-35.00R.

Kassai, Kenzou, to Aprica Kassai Kabushikikaisha. Baby carriage hood. 4,641,879, 2-10-87, Cl. 296-78.00A.

Kassai, Kenzou, to Aprica Kassai Kabushikikaisha. Mechanism for locking opened state of baby carriage. 4,645,229, 2-24-87, Cl. 280-650.000.

Kassai, Kenzou, to Aprica Kassai Kabushikikaisha. Joint structure for use in foldable baby carriages. 4,645,370, 2-24-87, Cl. 403-56.000.

Kassai, Kenzou, to Aprica Kassai Kabushikikaisha. Caster. 4,649,596, 3-17-87, Cl. 16-35.00R.

Kassai, Kenzou, to Aprica Kassai Kabushikikaisha. Baby carriage seat belt. 4,650,252, 3-17-87, Cl. 297-467.000.

Kassai, Kenzou, to Aprica Kassai Kabushikikaisha. Playpen. 4,669,138, 6-2-87, Cl. 5-99.00C.

Kassai, Kenzou, to Aprica Kassai Kabushikikaisha. Construction for attaching safety guard for child's auxiliary seat for automobiles. 4,671,574, 6-9-87, Cl. 297-487.000.

Kassai, Kenzou, to Aprica Kassai Kabushikikaisha. Childs Tricycle. 4,674,761, 6-23-87, Cl. 280-271.000.

Kassai, Kenzou, to Aprica Kassai Kabushikikaisha. Front cover for baby carriages. 4,678,222, 7-7-87, Cl. 296-78.00A.

Kassai, Kenzou, to Aprica Kassai Kabushikikaisha. Mechanism for locking opened and closed states of baby carriage. 4,697,823, 10-6-87, Cl. 280-644.000.

Kassai, Kenzou, to Aprica Kassai Kabushikikaisha. Compartmented packaging box for commodity and accessory. 4,700,831, 10-20-87, Cl. 206-232.000.

Kassai, Kenzou, to Aprica Kassai Kabushikikaisha. Mechanism for locking opened state of baby carriage. 4,706,986, 11-17-87, Cl. 280-642.000.

Kassai, Kenzou, to Aprica Kassai Kabushikikaisha. Baby carriage wheel stopping device. 4,714,141, 12-22-87, Cl. 188-20.000.

Kassai, Kenzou, to Aprica Kassai Kabushikikaisha. Steering wheel fixing construction for toy vehicles. 4,714,261, 12-22-87, Cl. 280-7.100.

Kassai, Kenzou, to Aprica Kassai Kabushikikaisha. Baby carriage. 4,714,292, 12-22-87, Cl. 297-437.000.

Kassai, Yoshio, to Mitsubishi Denki Kabushiki Kaisha. Interface circuit for programmed controller. 4,706,214, 11-10-87, Cl. 364-900.000.

Kassainee Zieger, Anna: *See—*
Megyeri, Gabor; Keve, Tibor; Stefko, Bela; Bogsch, Erik; Galambos, Janos; Kassainee Zieger, Anna; Trischler, Ferenc; Palosi, Eva; Groo, Dora; Karpati, Egon; Szombathelyi, Zsolt; Szporny, Laszlo ; Kiss, Bela; Laszlovszky, Istvan, and Lapis, Erzsebet, 4,681,887, Cl. 514-284.000.

Kassal, Randy; and Juday, Jim. Ski strap system. 4,653,121, 3-31-87, Cl. 2-160.000.

Kassay, Joseph E.: *See—*
Landis, Robert; and Kassay, Joseph E., 4,648,393, Cl. 128-200.230.

Kassebohm, Borchert: *See—*
Marnet, Crysanth; and Kassebohm, Borchert, 4,670,221, Cl. 422-107.000.

- Kassegger, Friedrich: *See—*
  - Liesch, Jean-Francois; Kassegger, Friedrich; and Handler, Rudolf, 4,647,020, Cl. 266-270.000.
- Kasser, Jurgen, to Blaupunkt-Werke GmbH. Method and apparatus for reducing interference in broadcast receiver. 4,704,736, 11-3-87, Cl. 455-213.000.
- Kassik, Ronald W.: *See—*
  - Deem, Jake O.; Kassik, Ronald W.; and Metteer, N. Bruce, 4,715,001, Cl. 364-484.000.
- Kassin, Charles A.: *See—*
  - Nix, Richard A.; Kassin, Charles A.; and Leigh-Monstevens, Keith V., 4,660,694, Cl. 192-85.0CA.
- Kassing, Lothar: *See—*
  - Baumann, Karl-Heinz; Schick, Gerald; Kassing, Lothar; Bossenmaier, Alban; and Brambilla, Luigi, 4,715,468, Cl. 180-271.000.
  - Groesch, Lothar; Netzer, Gabriel; and Kassing, Lothar, 4,701,132, Cl. 434-274.000.
- Kassis, Amin I. Pool vacuum. 4,692,956, 9-15-87, Cl. 15-1.700.
- Kassner, Harry W.; Draney, Robert G.; and Youngers, Stephen A., to J. I. Case Company. High-speed cable-laying apparatus. 4,650,370, 3-17-87, Cl. 405-183.000.
- Kassner, Michael P.: *See—*
  - Wedel, John A.; Carroll, Michael J.; Kassner, Michael P.; and Smith, Nathan R., 4,647,269, Cl. 414-421.000.
- Kast, Philip J.: *See—*
  - Kayser, John P.; and Kast, Philip J., 4,648,486, Cl. 184-15.100.
- Kast, Steven J., to United States of America, Energy. Interlocking egg-crate type grid assembly. 4,714,585, 12-22-87, Cl. 376-442.000.
- Kastel, Walter; and Geiger, Wolfgang, to Endress u. Hauser GmbH u. Co. Sensor. 4,640,135, 2-3-87, Cl. 73-716.000.
- Kasten, Donald A., to Standard precision, Inc. Three member drawer slide with sequential movement. 4,696,582, 9-29-87, Cl. 384-18.000.
- Kasten, Robert E., to Deere & Company. Self-tuning regulator implement control. 4,677,542, 6-30-87, Cl. 364- 50.000.
- Kastendieck, William A.; and Broyles, Thomas E., to Varo, Inc. Passive proximity battery control circuit for night vision goggles. 4,672,194, 6-9-87, Cl. 250-213.0VT.
- Kastendieck, William A.; Hart, Richard T.; and Isbell, Wayne, to Varo, Inc. Quick release night vision goggle mounting bracket. 4,697,783, 10-6-87, Cl. 248-900.000.
- Kastendieck, William A.; and Puckett, Steve D., to Varo, Inc. Light secure eyecup for use with night vision goggles. 4,698,857, 10-13-87, Cl. 2-426.000.
- Kastendieck, William A.; and Hart, Richard T., to Varo, Inc. Night vision goggle headgear. 4,703,879, 11-3-87, Cl. 224-181.000.
- Kastening, Bertel: *See—*
  - Divisek, Jiri; Furst, Leander; Kastening, Bertel; and Luft, Harald, 4,645,607, Cl. 210-719.000.
- Kaster, Bart: *See—*
  - Heeringa, Auke; Juffermans, Johannes P. H.; and Kaster, Bart, 4,677,028, Cl. 428-422.800.
- Kastl, Alfons: *See—*
  - Muller, Jurgen; Kastl, Alfons; and Farber, Heinrich, 4,641,940, Cl. 354-322.000.
- Kastl, Hans: *See—*
  - Bauer, Rainer, and Kastl, Hans, 4,645,637, Cl. 376-249.000.
- Kastle, George E.; Kastle, Jennie R.; Stinedurf, Constance V.; Wilson, James E.; and Wilson, Barbara M., to Swak, Inc. Gameboard swivel. 4,705,276, 11-10-87, Cl. 273-309.000.
- Kastle, Jennie R.: *See—*
  - Kastle, George E.; Kastle, Jennie R.; Stinedurf, Constance V.; Wilson, James E.; and Wilson, Barbara M., 4,705,276, Cl. 273-309.000.
- Kastle Systems, Inc.: *See—*
  - Dietrich, William V., 4,689,610, Cl. 340-515.000.
- Kastlunger, Siegfried, to Motorenfabrik Hatz GmbH & Co. KG. Decompression arrangement for a combustion engine. 4,648,362, 3-10-87, Cl. 123-182.000.
- Kastner, Ralph E.: *See—*
  - Hamill, Robert L.; and Kastner, Ralph E., 4,659,660, Cl. 435-71.000.
  - Michel, Karl H.; and Kastner, Ralph E., 4,713,331, Cl. 435-68.000.
- Kastrop, Dieter: *See—*
  - Grzanna, Ortwin; Koesfeld, Manfred; Weber, Rolf-Udo; Steuer, Aloysius; Romswinkel, Horst; Fremgen, Dieter; and Kastrop, Dieter, 4,693,767, Cl. 156-49.000.
- Kastrup, Dieter: *See—*
  - Diekemper, Erwin; and Kastrup, Dieter, 4,694,148, Cl. 235-468.000.
- Kasuda, Takashi; and Seto, Youji, to Pegasus Sewing Machine Mfg. Co., Ltd. Feed mechanism for sewing machine. 4,674,426, 6-23-87, Cl. 112-313.000.
- Kasuga, Akira: *See—*
  - Miyatsuka, Hajime; Kasuga, Akira; Matsufuji, Akihiro; and Kakuta, Takeshi, 4,687,705, Cl. 428-329.000.
  - Miyoshi, Takahito; Kasuga, Akira; and Fujiyama, Masaaki, 4,652,958, Cl. 360-128.000.
  - Miyoshi, Takahito; Aoki, Nobuo; Yoneyama, Takashi; Kasuga, Akira; Okutu, Toshimitu; Fujiyama, Masaaki; and Okuzawa, Yasutoshi, 4,696,859, Cl. 428-323.000.
  - Miyoshi, Takahito; Kasuga, Akira; and Fujiyama, Masaaki, 4,701,364, Cl. 428-141.000.
  - Morita, Kazuhiko; Komine, Shigeo; Kasuga, Akira; and Hibino, Noburo, 4,661,377, Cl. 427-130.000.
  - Nagashima, Yasuo; and Kasuga, Akira, 4,646,179, Cl. 360-99.000.
- Kasuga, Ikuo, to Kabushiki Kaisha Sankyo Seiki Seisakusho. Magnetic objective lens driving apparatus with pivot. 4,664,476, 5-12-87, Cl. 350-252.000.
- Kasuga, Noboru, to Janome Sewing Machine Co., Ltd. Sewing machine four motion speed. 4,714,040, 12-22-87, Cl. 112-323.000.
- Kasuga, Nobuo; and Hori, Hideo, to Nissan Motor Co., Ltd. Lower edge portion structure of front window. 4,650,239, 3-17-87, Cl. 296-84.00R.
- Kasuga, Noburu: *See—*
  - Hanyu, Susumu; Kasuga, Noburu; Hara, Kazumasa; and Koike, Mikio, 4,702,185, Cl. 112-254.000.
- Kasuga, Takaharu: *See—*
  - Ono, Hiroshi; Miyama, Kanemitsu; and Kasuga, Takaharu, 4,654,445, Cl. 568-454.000.
- Kasuga, Takeshi: *See—*
  - Miyata, Seizo; Nakahama, Hidenari; and Kasuga, Takeshi, 4,696,838, Cl. 427-407.200.
- Kasuga, Toshihiro; and Nakagawa, Kenji, to Hoya Corporation. High-strength glass-ceramic containing anorthite crystals and process for producing the same. 4,643,982, 2-17-87, Cl. 501-8.000.
- Kasuga, Toshihiro, to Hoya Corporation. High-strength glass ceramic containing apatite crystals and a large quantity of wollastonite crystals and process for producing same. 4,652,534, 3-24-87, Cl. 501-5.000.
- Kasuga, Yoshiaki, to Nichiro Kogyo Company, Ltd. Method of feeding and tightening a band in a band strapping machine and apparatus thereof. 4,635,541, 1-13-87, Cl. 100-2.000.
- Kasuga, Yoshiaki, to Nichiro Kogyo Company, Ltd. Band feeding and tightening apparatus and method of feeding and tightening a band. 4,653,394, 3-31-87, Cl. 100-2.000.
- Kasugai, Joji; and Yamamoto, Masami, to Toyoda Gosei Co., Ltd.; and Toyota Jidosha Co., Ltd. Cap with valve. 4,666,056, 5-19-87, Cl. 220-203.000.
- Kasugai, Kaoru: *See—*
  - Hashimoto, Shingo; Sunaga, Kazuyuki; and Kasugai, Kaoru, 4,682,254, Cl. 360-103.000.
- Kasugai, Takao: *See—*
  - Machida, Yoshio; and Kasugai, Takao, 4,709,211, Cl. 324-309.000.
- Kasukabe, Kimito: *See—*
  - Nagai, Makoto; Horiuchi, Isamu; Hanada, Masamichi; Kuroda, Sigeaki; Hayashi, Masakatsu; Ohishi, Yasuro; Mori, Yutaka; Maeda, Eiji; Kasukabe, Kimito; Tsujita, Yuji; Etou, Hironori; Kikuchi, Katsuaki; and Itagaki, Masato, 4,647,271, Cl. 416-186.00R.
- Kasuya, Atsuo: *See—*
  - Otsuka, Nobuyuki; Kasuya, Atsuo; Nakayama, Yusho; Kumashiro, Masayuki; Furuya, Tamio; and Kaiho, Shigeru, 4,689,979, Cl. 72-57.000.
- Kasuya, Katsuhiko; Sasaki, Shigeru; and Nagai, Toshiaki, to Hitachi Ltd. Screw rotor tooth profile. 4,671,751, 6-9-87, Cl. 418-201.000.
- Kasuya, Kazusato: *See—*
  - Ando, Tsuneo; Kasuya, Kazusato; Yasuda, Takeru; and Asada, Yukitoshi, 4,685,434, Cl. 123-438.000.
  - Ando, Tsuneo; Kasuya, Kazusato; Asada, Yukitoshi; and Sugimoto, Hironobu, 4,705,002, Cl. 123-440.000.
- Kasuya, Takahira: *See—*
  - Koizumi, Fumio; Kasuya, Takahira; and Takahashi, Jiro, 4,693,952, Cl. 430-109.000.
  - Morita, Hideaki; Kasuya, Takahira; Yamakawa, Goichi; Tomono, Makoto; and Yasuda, Shinichiro, 4,657,837, Cl. 430-109.000.
- Kasuya, Yukio, to Canon Kabushiki Kaisha. Density detecting apparatus which detects image density according to document size. 4,662,738, 5-5-87, Cl. 355-14.00R.
- Kasuya, Yukio, to Canon Kabushiki Kaisha. Image processing apparatus with means for controlling the amount of light transmitted therethrough to a recording member. 4,697,910, 10-6-87, Cl. 355-3.00R.
- Kaswan, Renee, to University of Georgia Research Foundation, Inc. Ophthalmic treatment by topical administration of cyclosporin. 4,649,047, 3-10-87, Cl. 424-78.000.
- Kasza, Tibor; Kakonyi, Gyula; Kocso, Illes; Buzas, Attila; and Radvanyi, Laszlo , to Elzett Muvek. Magnetizing apparatus for the magnetization of keys and rotors of magnetic safety lock systems. 4,682,137, 7-21-87, Cl. 335-284.000.
- Kaszanitzky, Ferenc: *See—*
  - Matyas, Bela; Gerber, Pal; Solymos, Andras; Kaszanitzky, Ferenc; Panto, Gyorgy; and Leffler, Janos, 4,649,031, Cl. 423-20.000.
- Kaszerman, Philip: *See—*
  - Citron, Irwin M.; and Kaszerman, Philip, 4,688,251, Cl. 380-34.000.
- Kata, Kenji: *See—*
  - Hanyu, Susumu; Kata, Kenji; and Takahashi, Yoshitaka, 4,648,340, Cl. 112-447.000.
- Katada, Akira: *See—*
  - Komatsu, Toshio; Katada, Akira; and Takahashi, Hideyuki, 4,657,133, Cl. 206-204.000.
- Katada, Hiroshi: *See—*
  - Koike, Hiroshi; Katada, Hiroshi; and Yoneda, Hiroshi, 4,715,353, Cl. 123-590.000.
- Katada, Katsuo: *See—*
  - Yazawa, Akira; Itagaki, Kimio; Sezaki, Kazuo; Matsuda, Kenji; Kanazawa, Kazuo; Hayashi, Mitsuo; and Katada, Katsuo, 4,657,585, Cl. 75-63.000.
- Katafuchi, Toshinobu: *See—*
  - Kai, Masami; Kurando, Shigeo; Katafuchi, Toshinobu; Amakawa, Katsumi; and Kajitani, Tetsuji, 4,659,206, Cl. 355-3.0DR.
- Katagi, Takashi; Mano, Seiji; and Chiba, Isamu, to Mitsubishi Denki Kabushiki Kaisha. Antenna system. 4,644,359, 2-17-87, Cl. 342-379.000.

Katagiri, Fujio; Atsumi, Haruyuki; Anzai, Hisatugu; and Kasahara, Noboru, to Ryobi Limited; and Hochiki Corporation. Fireproof door closer and holder having a solenoid and a toggle mechanism. 4,656,690, 4-14-87, Cl. 16-48.500.

Katagiri, Hidenori: *See—*
- Miura, Hirohisa; Satoh, Hiroshi; Natsume, Toshio; and Katagiri, Hidenori, 4,695,319, Cl. 75-63.000.

Katagiri, Kazuhara; Oguchi, Yoshihiro; Ohtake, Takeshi; Arao, Kozo; Kitahara, Makoto; and Takasu, Yoshio, to Canon Kabushiki Kaisha. Photoconductive film and electrophotographic photosensitive member contains azulenium salt. 4,673,630, 6-16-87, Cl. 430-72.000.

Katagiri, Kazuharu; Yoshinaga, Kazuo; Okada, Shinjiro; and Kanbe, Junichiro, to Canon Kabushiki Kaisha. Ferroelectric liquid crystal device having chiral smectic and nematic liquid crystal composition. 4,714,323, 12-22-87, Cl. 350-350.00S.

Katagiri, Kazuharu: *See—*
- Kanbe, Junichiro; Katagiri, Kazuharu; and Kaneko, Syuzo, 4,655,561, Cl. 350-350.00S.
- Oguchi, Yoshihiro; and Katagiri, Kazuharu, 4,647,521, Cl. 430-58.000.
- Okada, Shinjiro; Katagiri, Kazuharu; and Kanbe, Junichiro, 4,639,089, Cl. 350-341.000.
- Takasu, Yoshio; Oguchi, Yoshihiro; and Katagiri, Kazuharu, 4,693,951, Cl. 430-31.000.
- Tsuboyama, Akira; Katagiri, Kazuharu; and Kanbe, Junichiro, 4,712,875, Cl. 350-344.000.

Katagiri, Kunio: *See—*
- Tsutsumi, Jiro; Uchiyama, Minolu; Katagiri, Kunio; and Yamada, Haruo, 4,657,076, Cl. 166-90.000.

Katagiri, Mamoru: *See—*
- Inoue, Yoshimi; Seki, Mamoru; Katagiri, Mamoru; Nishiyama, Hiroaki; and Ogawa, Zenji, 4,675,339, Cl. 514-419.000.

Katagiri, Nobuya: *See—*
- Kato, Tetsuzo; and Katagiri, Nobuya, 4,656,260, Cl. 536-55.000.

Katagiri, Shuhei, to Tokyo Shibaura Denki Kabushiki Kaisha. Fiber optic receiver module. 4,647,148, 3-3-87, Cl. 350-96.200.

Katagiri, Shuhei: *See—*
- Takezawa, Hatsuo; Donuma, Kenichi; Katagiri, Shuhei; and Sakura, Shigeyuki, 4,695,858, Cl. 357-19.000.

Katagiri, Takashi: *See—*
- Tsujimoto, Keizo; Katagiri, Takashi; Ichihashi, Eiji; and Otsubo, Hitoshi, 4,712,366, Cl. 57-245.000.

Katagiri, Yoshimichi: *See—*
- Sawatari, Norio; Yamagishi, Yasuo; Ebisu, Katsuji; Katagiri, Yoshimichi; and Narusawa, Toshiaki, 4,699,863, Cl. 430-97.000.

Katahira, Masayuki, to Nippon Seiko Kabushiki Kaisha. Linear guide device. 4,648,726, 3-10-87, Cl. 384-45.000.

Kataigi, Tsutomu: *See—*
- Miyake, Tomohisa; Kataigi, Tsutomu; and Shinozuka, Toshinobu, 4,669,900, Cl. 400-322.000.

Kataishi, Ryuichiro: *See—*
- Seki, Hiroshi; and Kataishi, Ryuichiro, 4,639,605, Cl. 250-554.000.
- Seki, Hiroshi; and Kataishi, Ryuichiro, 4,640,628, Cl. 374-141.000.

Kataishi, Takao; and Suenaga, Syonin, to Misawa Homes Company Limited. Method of molding a light-weight, cellular concrete panel having a window or ceramic plate embedded therein. 4,659,527, 4-21-87, Cl. 264-46.400.

Katakami, Tsutomu; Fukazawa, Nobuyuki; Iizuka, Hajime; Nishina, Takashi; Kamiya, Joji; Tanaka, Yasuhito; and Nakano, Takuo, to Mitsui Toatsu Kagaku-Kabushiki Kaisha. Pyridazinone derivatives. 4,639,451, 1-27-87, Cl. 514-247.000.

Katakura, Kageyoshi: *See—*
- Kushida, Keiko; Takeuchi, Hiroshi; and Katakura, Kageyoshi, 4,692,653, Cl. 310-334.000.
- Nakaya, Chitose; Takeuchi, Hiroshi; and Katakura, Kageyoshi, 4,658,176, Cl. 310-334.000.
- Ogawa, Toshio; and Katakura, Kageyoshi, 4,671,115, Cl. 73-626.000.
- Ogawa, Toshio; Kondo, Shinichi; Umemura, Shinichiro; and Katakura, Kageyoshi, 4,679,176, Cl. 367-119.000.
- Takeuchi, Hiroshi; Nakaya, Chitose; and Katakura, Kageyoshi, 4,683,396, Cl. 310-358.000.
- Umemura, Shin'ichiro; Takeuchi, Hiroshi; Katakura, Kageyoshi; and Nakaya, Chitose, 4,680,499, Cl. 310-334.000.
- Umemura, Shinichiro; Takeuchi, Hiroshi; and Katakura, Kageyoshi, 4,692,654, Cl. 310-334.000.

Katalistiks, Inc.: *See—*
- Yoo, Jin S.; and Jaecker, John A., 4,642,178, Cl. 208-113.000.

Katamine, Akihiko: *See—*
- Ishii, Yugoro; Onozawa, Motohisa; and Katamine, Akihiko, 4,712,428, Cl. 73-644.000.

Katano, Masaaki: *See—*
- Aratani, Shinichi; Katano, Masaaki; and Mizoguchi, Takeshi, 4,671,814, Cl. 65-30.140.

Katano, Yasuo: *See—*
- Ameyama, Minoru; Isayama, Takuro; Yamazaki, Hiroshi; Matsumoto, Shuzo; Katano, Yasuo; and Iwasaki, Kyuhachiro, 4,673,955, Cl. 346-140.00R.

Katao, Masaaki: *See—*
- Sasaki, Toshio; Katao, Masaaki; Kawai, Kiyoshi; and Shiga, Akinobu, 4,672,050, Cl. 502-116.000.

Kataoka, Akira; Hawai, Yasuo; Fujii, Hidehiko; Oya, Tetsuro; and Fujino, Akihiko, to Minolta Camera Kabushiki Kaisha. Depth-of-field preview apparatus for a single lens reflex camera. 4,692,010, 9-8-87, Cl. 354-273.000.

Kataoka, Akira; and Hawai, Yasuo, to Minolta Camera Kabushiki Kaisha. Diaphragm control device for cameras. 4,699,490, 10-13-87, Cl. 354-271.100.

Kataoka, Fukuhiko: *See—*
- Kondo, Kiyoshi; Kataoka, Fukuhiko; and Uno, Kiyotaka, 4,700,817, Cl. 188-380.000.

Kataoka, Fumio, to Tochigi-Fuji Sangyo Kabushiki Kaisha. Limited slip differential gear mechanism. 4,667,534, 5-26-87, Cl. 74-711.000.

Kataoka, Hideshi: *See—*
- Umeya, Kazumasa; Shioi, Ryoichi; Senzaki, Hisao; Nakagawa, Hisao; Koyama, Shoji; and Kataoka, Hideshi, 4,654,510, Cl. 219-541.000.

Kataoka, Hironori: *See—*
- Fujita, Takeshi; and Kataoka, Hironori, 4,711,734, Cl. 252-52.00A.

Kataoka, Hiroshi. Winding apparatus for sheet strip. 4,634,069, 1-6-87, Cl. 242-65.000.

Kataoka, Hiroshi, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for compression molding of thermoplastic resin and moldings molded by said process. 4,668,729, 5-26-87, Cl. 524-449.000.

Kataoka, Hiroshi. Device for taking out sheet rolls and mounting sheet roll cores. 4,682,929, 7-28-87, Cl. 414-589.000.

Kataoka, Hiroshi. Winding shaft for sheet rewinder. 4,693,431, 9-15-87, Cl. 242-72.00B.

Kataoka, Hiroshi. Rewinder with slitter. 4,697,755, 10-6-87, Cl. 242-56.400.

Kataoka, Hiroshi. Take-out/take-up tension control apparatus. 4,708,301, 11-24-87, Cl. 242-75.510.

Kataoka, Hiroyoshi: *See—*
- Tsutsui, Koichi; Eguchi, Yoshio; and Kataoka, Hiroyoshi, 4,659,795, Cl. 526-301.000.

Kataoka, Hiroyuki, to Canon Kabushiki Kaisha. Electronic flash apparatus. 4,657,367, 4-14-87, Cl. 354-415.000.

Kataoka, Isaburou, to Mitsubishi Denki Kabushiki Kaisha. Manual control device. 4,673,919, 6-16-87, Cl. 340-365.00A.

Kataoka, Jiro: *See—*
- Eguchi, Hajime; Kataoka, Jiro; and Takahashi, Masahiro, 4,699,793, Cl. 426-41.000.
- Ikemoto, Yoshihiro; Kataoka, Jiro; Otsuki, Toshinori; and Nakamura, Takuji, 4,701,810, Cl. 358-296.000.

Kataoka, Kazunori: *See—*
- Ogata, Naoya; Sanui, Kohei; Yui, Nobuhiko; Nojima, Kazuhiko; Kataoka, Kazunori; Okano, Teruo; and Sakurai, Yasuhisa, 4,687,831, Cl. 528-64.000.

Kataoka, Keiji; and Saito, Susumu, to Hitachi, Ltd.; and Hitachi Koki Co., Ltd. Lens-on-disc type optical scanning apparatus. 4,640,573, 2-3-87, Cl. 350-6.100.

Kataoka, Keiji: *See—*
- Arimoto, Akira; Saito, Susumu; Tatsuno, Kimio; and Kataoka, Keiji, 4,644,160, Cl. 250-201.000.
- Kaku, Toshimitsu; Kataoka, Keiji; Tsunoda, Yoshito; and Shigematsu, Kazuo, 4,656,618, Cl. 369-112.000.
- Tatsuno, Kimio; Kataoka, Keiji; and Yonezawa, Seiji, 4,688,880, Cl. 350-3.720.
- Tatsuno, Kimio; and Kataoka, Keiji, 4,689,479, Cl. 250-201.000.

Kataoka, Koichi; and Kabumoto, Takashi, to Kabushiki Kaisha Ishida Koki Seisakusho. Article supply for a combinatorial weighing machine. 4,678,047, 7-7-87, Cl. 177-1.000.

Kataoka, Makoto: *See—*
- Kumagai, Isao; Kataoka, Makoto; and Kinoshita, Yuji, 4,663,013, Cl. 204-296.000.

Kataoka, Mikiko: *See—*
- Ozeki, Khoji; Sawada, Masahiro; Kimura, Isami; Kataoka, Mikiko; Sato, Makoto; and Yamada, Toshihiro, 4,666,915, Cl. 514-272.000.

Kataoka, Mitsuru: *See—*
- Katayama, Kazuo; Ooishi, Katumi; Ogawa, Toshiake; Batai, Masaru; and Kataoka, Mitsuru, 4,660,852, Cl. 280-750.000.

Kataoka, Naoki: *See—*
- Fukui, Minoru; and Kataoka, Naoki, 4,715,235, Cl. 73-862.680.

Kataoka, Ryuji, to Fuji Jukogyo Kabushiki Kaisha. System for controlling the idle speed of an automotive engine. 4,651,694, 3-24-87, Cl. 123-339.000.

Kataoka, Ryuji, to Fuji Jukogyo Kabushiki Kaisha. Air-fuel ratio control system for an automotive engine. 4,664,085, 5-12-87, Cl. 123-478.000.

Kataoka, Shinji; Shinagawa, Yukio; and Sakaguchi, Shinji, to Fuji Photo Film Co., Ltd. Retouchable mat film. 4,659,607, 4-21-87, Cl. 428-143.000.

Kataoka, Shunzi: *See—*
- Ota, Toyokazu; Nakamura, Yutaka; Ikeda, Yutaka; Kataoka, Shunzi; and Ito, Yoshinobu, 4,639,291, Cl. 162-207.000.

Kataoka, Tadashi, to Ebara Research Ltd., and Ebara Corporation. Shaft sealing device with floating seal member. 4,641,842, 2-10-87, Cl. 277-83.000.

Kataoka, Takashi: *See—*
- Shibahashi, Yutaka; Nakasuji, Norikazu; Kataoka, Takashi; Inagaki, Hiroshi; Kito, Tutomu; Ozaki, Masaharu; Matunami, Nobuaki; Ishimura, Naoya; and Fujita, Katuyuki, 4,681,791, Cl. 428-96.000.

Kataoka, Takeshi: *See—*
- Saitou, Yosio; Kataoka, Takeshi; Takechi, Moriaki; and Matsumoto, Takahiro, 4,707,676, Cl. 335-216.000.

Kataoka, Yasuki: *See—*
- Miura, Yasuhisa; Kataoka, Yasuki; and Asada, Tohru, 4,675,134, Cl. 260-501.140.

  - Yoshioka, Nobuyuki; Okunishi, Yasuji; Miura, Yasuhisa; Mori, Yoshikazu; Kataoka, Yasuki; and Adachi, Eiichi. 4,659,739, Cl. 514-555.000.
- Kataoka, Yoshiharu: *See*—
  - Oda, Kazuyuki; Yui, Yoshikiyo; Kataoka, Yoshiharu; and Hata, Hideo. 4,714,331, Cl. 353-122.000.
- Katase, Haruhisa; Rokushima, Yasuo; and Yanagi, Tosio, to Nippon Petrochemicals Co., Ltd. Packing inside bag for viscous material. 4,704,731, 11-3-87, Cl. 383-120.000.
- Katashima, Seiji: *See*—
  - Kawai, Kazuo; Kawai, Sumikazu; and Katashima, Seiji. 4,637,450, Cl. 164-200.000.
  - Kawai, Kazuo; Kawai, Sumikazu; and Katashima, Seiji. 4,660,709, Cl. 198-339.100.
- Katata, Akihide: *See*—
  - Kubo, Seiji; Yasuda, Mitsuo; and Katata, Akihide. 4,667,074, Cl. 219-10.49R.
- Kataura, Yasuji: *See*—
  - Ototani, Tohei; and Kataura, Yasuji. 4,671,820, Cl. 75-58.000.
  - Ototani, Tohei; and Kataura, Yasuji. 4,698,095, Cl. 75-58.000.
- Katayama, Aiichi: *See*—
  - Nakatsugawa, Kenji; Katayama, Aiichi; Sekiya, Hitoshi; and Hiratsuka, Shoji. 4,642,519, Cl. 315-1.000.
- Katayama, Akifumi; Mori, Keijirou; and Ueda, Satoshi, to Matsushita Electric Industrial Co., Ltd. Enthalpy calculator. 4,672,560, 6-9-87, Cl. 364-556.000.
- Katayama, Akifumi; Mori, Keijirou; Ueda, Satoshi; and Suwa, Katsuhiko, to Matsushita Electric Industrial Co., Ltd. Enthalpy calculator unit. 4,672,561, 6-9-87, Cl. 364-556.000.
- Katayama, Akira: *See*—
  - Ozawa, Kunitaka; Nakamura, Takashi; Katayama, Akira; Hatanaka, Katsunori; Mori, Tetsuzo; and Takaoka, Makoto. 4,716,421, Cl. 346-140.00R.
  - Tanabe, Yoshiaki; Katayama, Akira; and Hasuda, Masanori. 4,657,366, Cl. 354-246.000.
- Katayama Chemical Works Co., Ltd.: *See*—
  - Umekawa, Osamu; and Katayama, Sakae. 4,647,577, Cl. 514-441.000.
- Katayama, Hajime: *See*—
  - Wakabayashi, Toshio; Takahashi, Keiko; and Katayama, Hajime. 4,704,393, Cl. 514-274.000.
- Katayama, Hideaki: *See*—
  - Takeuchi, Koichi; Yamanaka, Megumi; Inada, Hisanobu; Kubo, Masayoshi; Katayama, Hideaki; Tokunaga, Kenji; and Miyamoto, Yoshinori. 4,649,780, Cl. 82-48.000.
  - Takeuchi, Koichi; Yamanaka, Megumi; Kubo, Masayoshi; Katayama, Hideaki; and Tokunaga, Kenji. 4,710,255, Cl. 156-361.000.
- Katayama, Hirohiko: *See*—
  - Miyazaki, Yasuko; Matsuoka, Mikiharu; Horyu, Sakae; Kanemoto, Takashi; and Katayama, Hirohiko. 4,651,299, Cl. 364-900.000.
- Katayama, Hiroshi: *See*—
  - Tajima, Fumio; Katayama, Hiroshi; Miyashita, Kunio; Tamura, Teizo; Hironaka, Kenichi; Kawano, Takuro; Sekita, Yosimi; Saito, Kouichi; and Tamura, Akira. 4,672,253, Cl. 310-269.000.
- Katayama, Hiroyuki; Ishikawa, Hidetake; Kuwabara, Masatoshi; Kajioka, Hiroyuki; Fujita, Masaki; Shibata, Kenji; Tamura, Yoshiaki; and Shimanuki, Takashi, to Nippon Steel Corporation; and Japan Metals and Chemicals Co., Ltd. Process for production of high-manganese iron alloy by smelting reduction. 4,662,937, 5-5-87, Cl. 75-80.000.
- Katayama, Hiroyuki: *See*—
  - Takahashi, Akira; Murakami, Yoshiteru; Hirokane, Junji; Katayama, Hiroyuki; and Ohta, Kenji. 4,695,514, Cl. 428-432.000.
- Katayama, Hisato: *See*—
  - Suzuki, Masami; Yamaguchi, Kouki; Katayama, Hisato; Muta, Tadayoshi; Okubo, Masakuni; Mochizuki, Akira; and Adachi, Hiroshi. 4,699,640, Cl. 55-385.00A.
- Katayama, Hitoshi: *See*—
  - Mita, Seiichi; Izumita, Morishi; Michikawa, Yuichi; Katayama, Hitoshi; Shiono, Hiroshi; Takagi, Hitoshi; Rokuda, Morito; and Doi, Nobukazu. 4,682,115, Cl. 328-164.000.
  - Umenoto, Masuo; Mita, Seiichi; Izumita, Morishi; Michikawa, Yuuichi; Rokuda, Morito; Katayama, Hitoshi; and Kanada, Hidehiro. 4,670,797, Cl. 358-310.000.
- Katayama, Kaneo; and Hashimoto, Yasuhiko, to Mitsubishi Denki Kabushiki Kaisha. Damper device for an air conditioning apparatus. 4,679,494, 7-14-87, Cl. 98-38.600.
- Katayama, Kazuo; Ooishi, Katumi; Ogawa, Toshiake; Batai, Masaru; and Kataoka, Mitsuru, to Mazda Motor Corporation. Crash energy absorber for a vehicle steering wheel. 4,660,852, 4-28-87, Cl. 280-750.000.
- Katayama, Kazuso; Mori, Yasushi; Kanki, Hiroshi; Morii, Shigeki; Takeshita, Koji; Ozawa, Yutaka; and Yoshida, Zenichi, to Mitsubishi Jukogyo Kabushiki Kaisha. Vibration suppressing sealing device for a rotary machine. 4,660,838, 4-28-87, Cl. 277-97.000.
- Katayama, Kazuso; Ichiryuu, Taku; Mouri, Yasushi; Mitsuhashi, Tsuneyoshi; and Kobayashi, Masanori, to Mitsubishi Jukogyo Kabushiki Kaisha. Centrifugal compressor. 4,708,587, 11-24-87, Cl. 415-104.000.
- Katayama, Kazuso; Ichiryu, Taku; Mitsuhashi, Tsuneyoshi; Mori, Yasushi; and Kobayashi, Masanori, to Mitsubishi Jukogyo Kabushiki Kaisha. Centrifugal compressor. 4,715,778, 12-29-87, Cl. 415-104.000.
- Katayama, Kazuzo; Ichiryu, Taku; Mitsuhashi, Tsuneyoshi; Mouri, Yasushi; and Kobayashi, Masanori, to Mitsubishi Jukogyo Kabushiki Kaisha. Rotary machine having an impeller with a sleeve fixedly mounted to a shaft. 4,697,987, 10-6-87, Cl. 416-204.00A.
- Katayama, Kazuzo: *See*—
  - Mouri, Yasushi; Katayama, Kazuzo; Ichiryu, Taku; Mitsuhashi, Tsuneyoshi; and Kobayashi, Masanori. 4,706,969, Cl. 277-83.000.
- Katayama, Kouichi: *See*—
  - Takada, Masahiro; Yuzuriha, Teruaki; Katayama, Kouichi; and Sunamoto, Junzo. 4,636,381, Cl. 424-38.000.
- Katayama, Masahito: *See*—
  - Nawata, Kazuyoshi; Katayama, Masahito; and Yokoshima, Minoru. 4,636,534, Cl. 522-116.000.
- Katayama, Masanori; Komoda, Norihisa; Murata, Tomohiro; and Kera, Kazuo, to Hitachi, Ltd. Method and apparatus for recovering normality in moving sequence of machinery. 4,638,227, 1-20-87, Cl. 318-565.000.
- Katayama, Masanori: *See*—
  - Bessho, Yoshihiko; Yamashita, Koji; and Katayama, Masanori. 4,669,865, Cl. 355-30.000.
- Katayama, Masayoshi: *See*—
  - Morita, Yutaka; Katayama, Masayoshi; and Kato, Takashi. 4,648,281, Cl. 73-861.910.
- Katayama, Megumi: *See*—
  - Hirata, Terutaka; Azegami, Tadashi; Kimura, Atsushi; and Katayama, Megumi. 4,683,754, Cl. 73-708.000.
- Katayama, Mikio: *See*—
  - Murai, Masaru; Hujita, Hisashi; and Katayama, Mikio. 4,665,598, Cl. 29-20.000.
- Katayama, Mitsuhiro: *See*—
  - Oka, Kazuyoshi; Katayama, Mitsuhiro; Kohno, Toshihiko; Engstrom, Ulf; and Larssen, Svenn-Erik. 4,663,262, Cl. 430-108.000.
- Katayama, Nobuaki, to Toyota Jidosha Kabushiki Kaisha. Power transfer device for four wheel drive. 4,643,045, 2-17-87, Cl. 74-695.000.
- Katayama, Nobuaki, to Toyota Jidosha Kabushiki Kaisha. Power transfer device for four wheel drive. 4,669,332, 6-2-87, Cl. 74-701.000.
- Katayama, Nobuaki, to Toyota Jidosha Kabushiki Kaisha. Power transmission for four-wheel drive vehicle. 4,671,136, 6-9-87, Cl. 74-710.500.
- Katayama, Nobuaki: *See*—
  - Sasaki, Kan; Takimura, Keisuke; Katayama, Nobuaki; and Tsuchiya, Fumitomo. 4,645,029, Cl. 180-249.000.
  - Sasaki, Kan; Takimura, Keisuke; and Katayama, Nobuaki. 4,697,470, Cl. 74-701.000.
- Katayama, Sakae: *See*—
  - Umekawa, Osamu; and Katayama, Sakae. 4,647,577, Cl. 514-441.000.
- Katayama, Satoru: *See*—
  - Miyafuji, Motohisa; Nakashima, Yasuhiro; Katayama, Satoru; Matsui, Takashi; Harada, Hidekazu; and Yuki, Youji. 4,656,003, Cl. 420-473.000.
- Katayama, Shigeru: *See*—
  - Yamamoto, Hiraku; Suzuki, Toshimichi; Katayama, Shigeru; Uratsuka, Isao; and Asoshina, Eishi. 4,695,598, Cl. 523-400.000.
- Katayama, Takao, to Kubota, Ltd. Grass collection bag for lawn mower. 4,693,064, 9-15-87, Cl. 56-202.000.
- Katayama, Takashi: *See*—
  - Kakimoto, Norihiro; Katayama, Takashi; Hazato, Tadahiko; and Ohnishi, Tsutomu. 4,681,960, Cl. 556-83.000.
- Katayama, Takeshi, to Nippondenso Co., Ltd. Engine alarm system. 4,696,277, 9-29-87, Cl. 123-479.000.
- Katayama, Toshiaki: *See*—
  - Koya, Yoshihiro; and Katayama, Toshiaki. 4,681,151, Cl. 164-76.100.
- Katayama, Toshikazu; Shibata, Tsugio; and Arimune, Hisao, to Kyocera Corporation; and Kyocera Corporation. Photo-thermo-magnetic recording medium and method of preparing same. 4,645,722, 2-24-87, Cl. 428-694.000.
- Katayama, Toshitake; Kuwamoto, Hiroshi; Iwado, Shuichi; Sonoda, Sakae; Okamoto, Shoji; and Kaburagi, Koji, to Nippon Kokan Kabushiki Kaisha; and Nihon Parkerizing Co. Ltd. Cold rolling oil for steel sheet. 4,666,617, 5-19-87, Cl. 252-32.000.
- Katayama, Yasunori: *See*—
  - Hokari, Sadao; Hori, Takamasa; Komuro, Katsu; Hatakeyama, Takanobu; Narita, Toshiroo; Katayama, Yasunori; and Arahori, Noboru. 4,661,757, Cl. 318-798.000.
- Katayama, Yoshifumi: *See*—
  - Sawada, Yasushi; Ueyanagi, Kiichi; Katayama, Yoshifumi; Shiraki, Yasuhiro; Morioka, Makoto; Kuroda, Takao; and Mishima, Tomoyoshi. 4,672,406, Cl. 357-22.000.
  - Shiraki, Yasuhiro; Katayama, Yoshifumi; Murayama, Yoshimasa; Morioka, Makoto; Sawada, Yasushi; Mishima, Tomoyoshi; Kuroda, Takao; and Maruyama, Eiichi. 4,673,959, Cl. 357-22.000.
- Katayama, Yoshio: *See*—
  - Koizumi, Satoru; Teshima, Daisuke; and Katayama, Yoshio. 4,698,704, Cl. 360-74.100.
- Katayama, Yoshitaka; Nabeshima, Daiki; and Nakamura, Shinichi, to Tokyo Shibaura Denki Kabushiki Kaisha. Record disc addressing apparatus. 4,716,558, 12-29-87, Cl. 369-33.000.
- Katayose, Shinji: *See*—
  - Asano, Hiroyuki; Katayose, Shinji; Inoue, Hideaki; Takei, Akira; and Tamura, Minoru. 4,649,880, Cl. 123-399.000.
  - Inoue, Hideaki; Katayose, Shinji; Takei, Akira; and Oka, Takashi. 4,660,520, Cl. 123-399.000.
- Katayose, Takahiro: *See*—
  - Nishio, Takumi; and Katayose, Takahiro. 4,667,858, Cl. 222-591.000.

Katchka, Jay R.; Yeaman, George A.; and McKinney, Richard W., to Robertshaw Controls Company. Burner control device, system and method of making the same. 4,640,676, 2-3-87, Cl. 431-54.000.

Katchka, Jay R.; and McKinney, Richard W., to Robertshaw Controls Company. Burner control device and method of making the same. 4,655,803, 4-7-87, Cl. 55-322.000.

Katchka, Jay R., to Robertshaw Controls Company. Burner construction and method of making the same. 4,684,340, 8-4-87, Cl. 431-80.000.

Katchko, John; Plaisance, Thomas H.; and Kriz, Karel, to DeSoto, Inc. Heat curable polysiloxane release coatings which stratify when baked and paper coated therewith. 4,654,270, 3-31-87, Cl. 428-447.000.

Katchko, John; Kirz, Karel; and Plaisance, Thomas H., to DeSoto, Inc. Silicone release coating emulsions which stratify when baked. 4,713,410, 12-15-87, Cl. 524-500.000.

Katdare, Ashok V., to Merck & Co., Inc. Tablet and formulation. 4,539,458, 1-27-87, Cl. 514-311.000.

Katecho, Incorporated: *See—*

Scharnberg, Lorne C.; and Devanathan, Deva, 4,693,720, Cl. 623-11.000.

Katernberg, Helmut; and Kohler, Ingolf, to M.A.N. Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Floating dock construction. 4,691,656, 9-8-87, Cl. 114-45.000.

Kates, Richard; and Chyb, Mario, to Ingersoll-Rand Company. Mine roof plate. 4,652,178, 3-24-87, Cl. 405-259.000.

Kathke, Gregor: *See—*

Wey, Edmund; Kathke, Gregor; and Langen, Manfred, 4,657,194, Cl. 242-35.50A.

Kathmann, Heinz: *See—*

Dirmeyer, Josef; Kathmann, Heinz; Merkle, Franz; Oberberger, Franz; Wilhelm, Walter; and Wimmer, Josef, 4,700,157, Cl. 333-185.000.

Katholieke Universiteit Leuven: *See—*

Jacobs, Pierre A.; Tielen, Mia; and Uytterhoeven, Jan B., 4,656,149, Cl. 502-35.000.

Katkov, Vladimir F.: *See—*

Lozinsky, Miron O.; Bobkov, Jury G.; Shinanjuk, Alla F.; Gevaza, Jury I.; Markovsky, Leonid N.; Kuznetsova, Galina A.; Markin, Valentin A.; Kleimenova, Natalya N.; Tentsova, Antonina I.; Motalov, Alexandr N.; Seredinin, Sergei B.; Katkov, Vladimir F.; Vinogradov, Vasily M.; and Kulinsky, Vladimir L., 4,691,046, Cl. 560-196.000.

Katner, Allen S., to Eli Lilly and Company. 3-bicyclicpyridinium-methyl cephalosporins. 4,692,443, 9-8-87, Cl. 514-206.000.

Katner, Allen S., to Eli Lilly and Company. 7[2-(2-aminothiazol-4-yl)-2-benzyloximino]acetamido-3[4-alkyl-5-oxo-6-hydroxy-3,4-dihydro-1,2,4-triazin-3-yl]thiomethyl cephalosporins. 4,698,338, 10-6-87, Cl. 514-206.000.

Kato, Akifumi: *See—*

Ohdaira, Akio; Suga, Michiharu; Kato, Akifumi; Kobayashi, Toshio; and Yokoyama, Akira, 4,670,508, Cl. 525-64.000.

Kato, Akio: *See—*

Shinoda, Akibumi; Yoshioka, Yukio; and Kato, Akio, 4,657,471, Cl. 414-663.000.

Kato, Akira; Otobe, Yutaka; and Kimura, Shigehiro, to Honda Giken Kogyo Kabushiki Kaisha. Ignition timing control method for internal combustion engines at idle. 4,696,272, 9-29-87, Cl. 123-339.000.

Kato, Akira; Igarashi, Hisashi; and Umeda, Tadashi, to Honda Giken Kogyo Kabushiki Kaisha. Ignition timing control method for internal combustion engines. 4,702,211, 10-27-87, Cl. 123-421.000.

Kato, Akira: *See—*

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Makabe, Eiichi; Harada, Naoki; Imai, Kiyotaka; Hosoda, Yoshiro; and Kato, Akira, 4,643,587, Cl. 374-104.000.

Otobe, Yutaka; Kato, Akira; and Chikamatsu, Masataka, 4,700,675, Cl. 123-339.000.

Otobe, Yutaka; Kato, Akira; Hosoda, Fumio; and Takagi, Akinobu, 4,700,679, Cl. 123-327.000.

Yunoki, Yutaka; Kimura, Kenji; Kato, Akira; and Imamura, Tatsuo, 4,642,711, Cl. 360-84.000.

Kato, Atsushi: *See—*

Kobayashi, Hisamine; and Kato, Atsushi, 4,665,661, Cl. 51-313.000.

Kato, Chiaki: *See—*

Katsuya, Hiroo; Kato, Chiaki; and Fujii, Yoshiharu, 4,633,805, Cl. 118-60.000.

Matsuyama, Fumio; and Kato, Chiaki, 4,668,537, Cl. 427-401.000.

Kato, Chuzo, to Osaka Yuki Kagaku Kogyo Kabushiki Kaisha. Preparation of nitride and carbide from inorganic-organic polymer complex. 4,652,436, 3-24-87, Cl. 423-406.000.

Kato, Eiichi: *See—*

Dan, Shigeyuki; Ishii, Kazuo; Kato, Eiichi; and Sera, Hidefumi, 4,665,002, Cl. 430-114.000.

Kato, Eiji: *See—*

Matsunaga, Fujihisa; Kato, Eiji; Kimura, Tsuyoshi; and Isota, Yoichiro, 4,675,444, Cl. 564-403.000.

Kato, Fumihiko: *See—*

Kimura, Takao; Inagaki, Nobuo; Yoshihara, Mitsuo; and Kato, Fumihiko, 4,639,080, Cl. 350-96.340.

Kato, Heihachi: *See—*

Fujisaki, Kiyonori; Kobayashi, Toshio; and Kato, Heihachi, 4,686,400, Cl. 310-67.00R.

Kato, Heizaburo, to Sankyo Manufacturing Company, Ltd. Roll feed apparatus. 4,634,034, 1-6-87, Cl. 226-142.000.

Kato, Heizaburo, to Sankyo Manufacturing Company, Ltd. Press machine. 4,638,731, 1-27-87, Cl. 100-282.000.

Kato, Heizaburo, to Sankyo Manufacturing Company, Ltd. Roll feed apparatus with adjustable nip. 4,638,990, 1-27-87, Cl. 271-272.000.

Kato, Heizaburo, to Sankyo Manufacturing Company, Ltd. Adjustable nip roll feed apparatus with braking/releasing device. 4,638,991, 1-27-87, Cl. 271-272.000.

Kato, Heizaburou; and Anma, Masao, to Sankyo Manufacturing Company, Ltd. Power transmitting device. 4,648,288, 3-10-87, Cl. 74-798.000.

Kato, Heizaburou; and Maruyama, Yukihisa, to Sankyo Manufacturing Company, Ltd. Cam mechanism. 4,667,531, 5-26-87, Cl. 74-567.000.

Kato, Hideaki; and Araki, Shigeru, to NEC Corporation. Digital video signal process apparatus for use in a video tape recorder. 4,680,791, 7-14-87, Cl. 380-8.000.

Kato, Hideki; Yamamoto, Noriyuki; Ogasawara, Takahisa, deceased (by Ogasawara, Kuniko, legal successor); and Asai, Masami, deceased (by Asai, Yasuko, legal successor), to Toagosei Chemical Industry Co., Ltd. Insulating protective material. 4,668,719, 5-26-87, Cl. 523-458.000.

Kato, Hideo; Matsushima, Masaaki; Matsuda, Keiko; and Shibata, Hirofumi, to Canon Kabushiki Kaisha. Mask structure for lithography, method for preparation thereof and lithographic method. 4,677,042, 6-30-87, Cl. 430-5.000.

Kato, Hideo: *See—*

Itho, Yasuo; Kato, Hideo; Ogawa, Nobuo; Yamagishi, Kagari; Koshinaka, Eiichi; and Nishino, Hiroyuki, 4,638,009, Cl. 514-428.000.

Kato, Hideto: *See—*

Takago, Toshio; Yamamoto, Yasushi; Yamaguchi, Koichi; and Kato, Hideto, 4,652,663, Cl. 549-215.000.

Kato, Hidetoshi; Mayumi, Nobuo; Kusase, Shin; and Matsuhashi, Hajime, to Nippondenso Co., Ltd. Voltage regulator for alternating current generator. 4,634,954, 1-6-87, Cl. 322-28.000.

Kato, Hidetoshi; Maehara, Fuyuky; and Mayumi, Nobuo, to Nippondenso Co., Ltd. Battery voltage regulating system. 4,641,079, 2-3-87, Cl. 320-64.000.

Kato, Hidetoshi: *See—*

Maehara, Fuyuky; and Kato, Hidetoshi, 4,670,704, Cl. 322-8.000.

Musha, Kazuhiko; Tago, Kohichi; and Kato, Hidetoshi, 4,641,196, Cl. 358-246.000.

Sada, Takeshi; Kato, Hidetoshi; Shibata, Hiroshi; Mori, Kazumasa; Mayumi, Nobuo; Sato, Hirohide; Akita, Yoshio; and Tanaka, Shigeru, 4,665,354, Cl. 320-64.000.

Kato, Hideya: *See—*

Aikawa, Shinichi; Shibuya, Hiroshi; Kato, Hideya; and Nishimoto, Akira, 4,700,249, Cl. 360-104.000.

Kato, Hiroaki: *See—*

Takafuji, Yutaka; Kato, Hiroaki; and Funada, Fumiaki, 4,654,959, Cl. 29-571.000.

Kato, Hirobumi: *See—*

Ichinoseki, Tsuyoshi; Kato, Hirobumi; Miyahara, Shuji; and Kimuro, Harumi, 4,655,847, Cl. 134-7.000.

Kato, Hiroshi; Chiba, Tomosuke; and Kikuchi, Masahiro, to Sony Corporation. Cathode ray tube apparatus with liquid cooled front panel. 4,634,918, 1-6-87, Cl. 313-36.000.

Kato, Hiroshi; and Kubota, Hiromitsu, to Victor Company of Japan, Ltd. Tape loading and tensioning device for a recording and/or reproducing apparatus. 4,636,887, 1-13-87, Cl. 360-85.000.

Kato, Hiroshi; Kojima, Toshihisa; and Yamazaki, Kazuo, to Sony Corporation. Display tube having printed copolymer film layer. 4,651,053, 3-17-87, Cl. 313-466.000.

Kato, Hiroshi; Kikunaga, Shoji; and Sugama, Koichi, to Victor Company of Japan, Ltd. Head drum construction including magnetically shielded record and reproduce signal paths. 4,654,738, 3-31-87, Cl. 360-108.000.

Kato, Hiroshi; and Nakamura, Eiichi. Bringing-up apparatus for providing repose place for yolk sac fry in fry channel. 4,669,419, 6-2-87, Cl. 119-3.000.

Kato, Hiroshi: *See—*

Sakamoto, Teruo; Kawai, Sadao; Noda, Kinzaburo; Takeda, Toyohiko; and Kato, Hiroshi, 4,713,247, Cl. 424-461.000.

Tateyama, Norihiro; Yamazaki, Kazuo; Kato, Hiroshi; and Teshima, Haruhito, 4,707,635, Cl. 313-466.000.

Watanabe, Kenji; Kato, Hiroshi; and Onishi, Katsunori, 4,690,348, Cl. 242-66.000.

Kato, Hiroyasu; and Denda, Hirokazu, to Victor Company of Japan, Ltd. Apparatus for automatically selecting and reproducing a recording medium. 4,635,150, 1-6-87, Cl. 360-98.000.

Kato, Hiroyuki; and Yamana, Toshifumi, to Rinnai Kabushiki Kaisha. Ceramic burner plate for gas combustion. 4,640,261, 2-3-87, Cl. 126-39.00J.

Kato, Hiroyuki: *See—*

Nagasaka, Chikao; Kato, Hiroyuki; Ohno, Hirofumi; and Irifune, Shinichi, 4,655,546, Cl. 350-99.000.

Niizuma, Hiroshi; Miki, Toshiro; Kojima, Shiro; Azuma, Kishiro; Kato, Hiroyuki; Murakami, Yuichi; and Ito, Tsutomu, 4,677,225, Cl. 562-599.000.

Takayanagi, Takashi; Asao, Yasuzi; Fuchizawa, Tetsuro; Jitsumatsu, Tetusji; Murase, Kiyoshi; and Kato, Hiroyuki, 4,654,261, Cl. 428-336.000.

Yamamoto, Masatoshi; Kawai, Yasushi; Shudo, Katsuyoshi; Kato, Hiroyuki; and Masuda, Shunsuke, 4,642,437, Cl. 219-84.000.

Kato, Hisaaki, to Murata Kikai Kabushiki Kaisha. Apparatus for manufacturing spun yarn. 4,674,274, 6-23-87, Cl. 57-328.000.

Kato, Hisaaki; Yamaguchi, Shuuji; and Okazaki, Toshiharu, to Toyota Jidosha Kabushiki Kaisha. Side member of motor vehicle. 4,702,515, 10-27-87, Cl. 296-189.000.

Kato, Hisao, to Mitsubishi Denki Kabushiki Kaisha. Industrial robot control system. 4,636,699, 1-13-87, Cl. 318-568.000.

Kato, Hisao, to Mitsubishi Denki Kabushiki Kaisha. Industrial robot device. 4,637,775, 1-20-87, Cl. 414-744.00R.

Kato, Hisao; and Sato, Akira, to Mitsubishi Denki Kabushiki Kaisha. Industrial robot system. 4,668,157, 5-26-87, Cl. 414-730.000.

Kato, Hisao, to Mitsubishi Denki Kabushiki Kaisha. Arm device for industrial robot. 4,673,329, 6-16-87, Cl. 414-744.00A.

Kato, Hisatoyo; Kawai, Yasuhiro; Ohara, Yuji; Okamoto, Yoshihiko; Taniguchi, Yutaka; and Horikawa, Kazuo, to Fuji Photo Film Co., Ltd. Radiation image read-out and reproducing apparatus. 4,676,582, 6-30-87, Cl. 350-6.500.

Kato, Hisatoyo: *See—*

Takahashi, Kenji; Umemoto, Chiyuki; and Kato, Hisatoyo, 4,710,626, Cl. 250-327.200.

Kato, Hitoshi: *See—*

Watanabe, Kinichiro; Horiai, Kunio; Mashiko, Tomoyuki; Kato, Hitoshi; Yamaguchi, Hiromasa; and Nishiyama, Toshihiko, 4,679,992, Cl. 417-364.000.

Kato, Ichiro; and Suzuki, Sigekazu, to Tokyo Shibaura Denki Kabushiki Kaisha; and Toshiba Ceramics Co., Ltd. Method of grinding a sapphire wafer. 4,662,124, 5-5-87, Cl. 51-283.00R.

Kato, Ippei; Takasu, Masao; and Maruyama, Nobuo, to Mishima Paper Co., Ltd.; and Kureha Chemical Industry Co., Ltd. Process for producing electroconductive films. 4,645,566, 2-24-87, Cl. 162-138.000.

Kato, Itsuo; Kamimura, Tetsuro; Takemasa, Kaoru; and Onishi, Junichi, to Pioneer Electronic Corporation. Cassette tape deck. 4,672,477, 6-9-87, Cl. 360-96.200.

Kato, Itsuro: *See—*

Taniguchi, Akihiko; Migita, Haruyoshi; Nakanishi, Yasushi; and Kato, Itsuro, 4,688,929, Cl. 355-14.00R.

Kato, Junichi: *See—*

Yokotani, Yoichiro; Kato, Junichi; Nishida, Masamitsu; Kawashima, Syunichiro; and Ouchi, Hiromu, 4,711,862, Cl. 501-136.000.

Kato, Juri, to Seiko Epson Kabushiki Kaisha. Method for diffusing a semiconductor substrate through a metal silicide layer by rapid heating. 4,669,176, 6-2-87, Cl. 29-571.000.

Kato Kagaku Co., Ltd.: *See—*

Ito, Yoshikuni; Kanamoto, Jinshu; Murayama, Seiji; and Suzuki, Shinji, 4,666,527, Cl. 127-60.000.

Kato, Kaoru: *See—*

Tanaka, Hiroyoshi; Adachi, Masaaki; Tsuda, Yoshiyuki; Aoyama, Shigeo; Tanno, Satoshi; and Kato, Kaoru, 4,691,767, Cl. 165-151.000.

Kato, Katsuaki: *See—*

Ito, Takashi; Matsuzawa, Shigemitsu; and Kato, Katsuaki, 4,716,087, Cl. 429-40.000.

Kato, Katsuhiko: *See—*

Hirano, Yoshiyuki; Seo, Yosuke; Okuwaki, Toyoji; Kato, Katsuhiko; and Tamura, Takashi, 4,651,242, Cl. 360-103.000.

Kato, Katsushi: *See—*

Tamura, Hiroshi; Nishibori, Kazuyoshi; Yamauchi, Yasutaka; and Kato, Katsushi, 4,683,859, Cl. 123-491.000.

Kato, Kazumichi: *See—*

Nakagawa, Hiroshi; Iwamoto, Hiroshi; Kanada, Hiroshi; Kato, Kazumichi; and Kurita, Yutaka, 4,668,883, Cl. 310-12.000.

Kato, Kazuo: *See—*

Hattori, Kyo; Kato, Kazuo; and Morita, Shuji, 4,696,201, Cl. 74-467.000.

Kamata, Yasuji; and Kato, Kazuo, 4,646,029, Cl. 330-283.000.

Someno, Tetsuya; Kato, Kazuo; Takahashi, Yasushi; Ishii, Shinichi; Takeuchi, Tomio; and Umezawa, Hamao, 4,708,944, Cl. 502-7.000.

Yamaguchi, Nobutaka; Fujiyama, Masaaki; Kato, Kazuo; and Kashiwagi, Akira, 4,647,503, Cl. 428-323.000.

Kato, Kazutaka: *See—*

Tsuge, Noboru; Taguchi, Masahiro; Kuwakado, Satosi; and Kato, Kazutaka, 4,666,097, Cl. 242-55.000.

Kato, Kazutoshi: *See—*

Sato, Masahiko; Kato, Kazutoshi; Ishibashi, Akira; and Matsushita, Tsurumasa, 4,691,154, Cl. 318-696.000.

Kato, Keiichi: *See—*

Kasai, Shin; Waketa, Hideharu; Kato, Keiichi; and Kawaguchi, Yutaka, 4,707,565, Cl. 174-68.500.

Kato, Keijiro: *See—*

Usami, Hiroko; Yamamoto, Akihiro; Sugawara, Yutaka; Kotani, Shozo; and Kato, Keijiro, 4,678,773, Cl. 514-25.000.

Kato, Keishi: *See—*

Sato, Yoshimitsu; Ohtsuka, Shuichi; Kimura, Akinori; Yoda, Akira; Kato, Keishi; and Takahashi, Isoji, 4,697,912, Cl. 355-3.00R.

Kato, Ken, to Agency of Industrial Science and Technology; and Ministry of International Trade and Industry. Magnetohydrodynamic power generator. 4,663,548, 5-5-87, Cl. 310-11.000.

Kato, Kenji, to Janome Sewing Machine Co. Ltd. Device for detecting fabric thickness of a sewing machine. 4,633,794, 1-6-87, Cl. 112-121.110.

Kato, Kenji; Yamaguchi, Yoshio; and Takahashi, Yoshitaka, to Janome Sewing Machine Co. Ltd. Computerized sewing machine. 4,648,341, 3-10-87, Cl. 112-458.000.

Kato, Kenji; Okada, Yuji; and Aoshima, Kazuyoshi, to Nippon Oil and Fats Co., Ltd. Peroxycarbonate group-containing copolymer and method for manufacture thereof. 4,658,001, 4-14-87, Cl. 526-218.100.

Kato, Kenji, to Janome Sewing Machine Co., Ltd. Pattern input device of a sewing machine. 4,672,903, 6-16-87, Cl. 112-457.000.

Kato, Kenji; and Kato, Shoji, to Janome Sewing Machine Co., Ltd. Device for attaching a memory cassette of a computerized sewing machine. 4,672,904, 6-16-87, Cl. 112-457.000.

Kato, Kenji; Inoue, Tokuta; Nakanishi, Kiyoshi; and Matsushita, Soichi, to Toyota Jidosha Kabushiki Kaisha. Method and apparatus for reducing NOx in internal combustion engine. 4,682,57 , 7-28-87, Cl. 123-492.000.

Kato, Kenji, to Janome Sewing Machine Co. Ltd. Pattern selecting device for a sewing machine. 4,688,503, 8-25-87, Cl. 112-445.000.

Kato, Kenji; Matsushita, Soichi; and Nakanishi, Kiyoshi, to Toyota Jidosha Kabushiki Kaisha. Method and device for control of internal combustion engine variable swirl air fuel intake system with direct helical intake passage. 4,694,794, 9-22-87, Cl. 123-306.000.

Kato, Kenji; and Sano, Yasuro, to Janome Sewing Machine, Co. Ltd. Method of automatic buttonhole stitching with a computerized sewing machine. 4,696,245, 9-29-87, Cl. 112-264.100.

Kato, Kenji: *See—*

Hanyu, Susumu; and Kato, Kenji, 4,660,488, Cl. 112-454.000.

Kato, Kenshiro: *See—*

Endo, Kazuyuki; Taniguchi, Motoaki; Takahashi, Masanobu; Yamada, Shigeki; and Kato, Kenshiro, 4,700,764, Cl. 152-526.000.

Togashi, Minoru; Kato, Kenshiro; and Furuya, Shin-ichi, 4,669,519, Cl. 152-454.000.

Kato, Kentaro: *See—*

Asano, Akira; and Kato, Kentaro, 4,671,223, Cl. 123-90.310.

Kato, Kichiro, to Toyota Jidosha Kabushiki Kaisha. Device for controlling the pressure in the bearings of a roots blower supercharger. 4,709,682, 12-1-87, Cl. 123-559.000.

Kato, Kiichi: *See—*

Matsubayashi, Nobuhide; and Kato, Kiichi, 4,682,311, Cl. 369-13.000.

Kato, Kiminari: *See—*

Matsuhisa, Tadaaki; and Kato, Kiminari, 4,645,700, Cl. 428-116.000.

Matsuhisa, Tadaaki; and Kato, Kiminari, 4,658,887, Cl. 165-8.000.

Kato, Kiminobu: *See—*

Fujitomi, Tetsuo; Iida, Masamichi; and Kato, Kiminobu, 4,674,277, Cl. 60-293.000.

Kato, Kinya; and Endo, Kazumasa, to Nippon Kogaku K. K. Optical alignment apparatus. 4,660,966, 4-28-87, Cl. 355-43.000.

Kato, Kinya; and Tsuchiya, Hiroyuki, to Nippon Kogaku K. K. Optical apparatus for the detection of scattered light. 4,690,565, 9-1-87, Cl. 356-446.000.

Kato, Kinya: *See—*

Hazama, Junji; Kato, Kinya; Tanimoto, Akikazu; and Izawa, Hisao, 4,636,626, Cl. 250-201.000.

Kato, Kiyotaka; and Oshima, Michitaka, to Mitsubishi Denki Kabushiki Kaisha. Curvilinear interpolation system and method. 4,648,024, 3-3-87, Cl. 364-169.000.

Kato, Kotaro: *See—*

Oshima, Goro; and Kato, Kotaro, 4,639,548, Cl. 380-43.000.

Kato, Kouichi: *See—*

Kai, Toru; and Kato, Kouichi, 4,678,421, Cl. 425-159.000.

Kato, Kozo: *See—*

Watanabe, Yuji; and Kato, Kozo, 4,644,583, Cl. 382-22.000.

Kato, Kuniaki; and Takahashi, Mutsumi, to Tokyo Keiki Co., Ltd. Back-reflection type light diffusing apparatus. 4,673,254, 6-16-87, Cl. 350-345.000.

Kato, Makoto; and Togashi, Mitsuo, to Matsushita Electric Industrial Co., Ltd.; and Matsushita Graphic Communication Systems. Optical device and document reader using the same. 4,676,596, 6-30-87, Cl. 350-167.000.

Kato, Makoto; Takiguchi, Yoshihiro; and Kinoshita, Katsuyuki, to Hamamatsu Photonics Kabushiki Kaisha. Streak tube having image slitting means for transmitting slit electron images of an object. 4,704,634, 11-3-87, Cl. 358-217.000.

Kato, Manabu: *See—*

Aoyama, Shunichi; Fujii, Hiroshi; and Kato, Manabu, 4,703,734, Cl. 123-432.000.

Hara, Seinosuke; Ofuji, Hiromichi; Miisyo, Kazuyuki; Matsumoto, Yasuo; and Kato, Manabu, 4,708,101, Cl. 123-90.160.

Kato, Mari: *See—*

Mitsui, Kotaro; Kato, Mari; Oda, Takao; and Yoshida, Susumu, 4,649,088, Cl. 428-697.000.

Mitsui, Kotaro; Kato, Mari; Oda, Takao; and Yoshida, Susumu, 4,673,476, Cl. 204-192.280.

Kato, Masaaki; Kano, Hiroyuki; and Ohmori, Toshihiko, to Nippondenso Co., Ltd. Fuel injection control apparatus for use to engine. 4,676,214, 6-30-87, Cl. 123-446.000.

Kato, Masaaki: *See—*

Arakawa, Tetsuo; Kato, Masaaki; and Watanabe, Kazunori, 4,660,515, Cl. 123-90.270.

Arisawa, Takashi; Suzuki, Youji; Maruyama, Yoichiro; Kato, Masaaki; and Shiba, Koreyuki, 4,689,128, Cl. 204-157.220.

Kato, Masahiro: *See—*

Kimata, Kei; Kato, Masahiro; and Shibata, Ko, 4,684,356, Cl. 464-111.000.

Ogawa, Tetsu; and Kato, Masahiro, 4,670,802, Cl. 360-97.000.

Kato, Masaie: *See—*

Ohzono, Kohei; Hayashi, Kiyotaka; Saito, Mitsuru; Kato, Masaie; and Yoshida, Yoshihiro, 4,679,677, Cl. 192-85.0AA.

Kato, Masakazu; and Takoshima, Takehiro, to Alps Electric Co., Ltd. Thermal head and method for manufacture thereof. 4,709,243, 11-24-87, Cl. 346-76.0PH.

Kato, Masakazu, to Alps Electric Co., Ltd. Method of fabricating print head for thermal printer. 4,710,263, 12-1-87, Cl. 156-637.000.

Kato, Masaki; and Yamazaki, Tsutomu, to Nissan Motor Company, Limited. Automotive engine idling speed control system with variable idling speed depending upon cooling air temperature in automotive air conditioning system. 4,694,798, 9-22-87, Cl. 123-339.000.

Kato, Masaki: *See*—
Ishii, Kazuhiro; Uno, Tetsuya; Kato, Masaki; and Kobayashi, Masao, 4,707,460, Cl. 502-26.000.

Kato, Masami, to Toska Co., Ltd. Method of making a fastener. 4,636,347, 1-13-87, Cl. 264-251.000.

Kato, Masami; and Ueno, Hideyuki, to Toska Co., Ltd. Fastener assembly. 4,660,718, 4-28-87, Cl. 206-343.000.

Kato, Masao: *See*—
Ishizuka, Takuo; and Kato, Masao, 4,675,671, Cl. 340-825.050.

Kato, Masashi: *See*—
Oshikoshi, Yuji; Kato, Masashi; and Kikuchi, Hisashi, 4,695,143, Cl. 354-86.000.
Shiraishi, Hisashi; Suyefuji, Mineo; and Kato, Masashi, 4,699,680, Cl. 156-242.000.
Yokota, Akira; and Kato, Masashi, 4,661,053, Cl. 425-3.000.
Yokota, Akira; Kato, Masashi; and Fujii, Katsuhiro, 4,666,387, Cl. 425-3.000.

Kato, Masatake, to Canon Kabushiki Kaisha. Telephoto zoom lens. 4,639,095, 1-27-87, Cl. 350-427.000.

Kato, Masatake, to Canon Kabushiki Kaisha. Zoom lens. 4,650,291, 3-17-87, Cl. 350-427.000.

Kato, Masatake; Nishimura, Tetsuharu; and Yokota, Hideo, to Canon Kabushiki Kaisha. Photographic optical apparatus. 4,682,237, 7-21-87, Cl. 358-225.000.

Kato, Masatake; Ikemori, Keiji; Tanaka, Tsunefumi; and Tanaka, Kazuo, to Canon Kabushiki Kaisha. Zoom lens. 4,702,567, 10-27-87, Cl. 350-427.000.

Kato, Masatake; Tsuji, Sadahiko; and Asano, Toshiaki, to Canon Kabushiki Kaisha. Rear focus zoom lens. 4,712,883, 12-15-87, Cl. 350-427.000.

Kato, Masatake: *See*—
Ikemori, Keiji; and Kato, Masatake, 4,684,223, Cl. 350-427.000.
Ikemori, Keiji; Tanaka, Tsunefumi; and Kato, Masatake, 4,687,302, Cl. 350-427.000.
Nishimura, Tetsuharu; Yokota, Hideo; and Kato, Masatake, 4,677,489, Cl. 358-213.130.
Takahashi, Sadatoshi; Asano, Toshiaki; Tsuji, Sadahiko; Fujibayashi, Kazuo; and Kato, Masatake, 4,653,874, Cl. 350-427.000.
Takahashi, Sadatoshi; Kato, Masatake; and Tsuji, Sadahiko, 4,687,303, Cl. 350-427.000.

Kato, Masatoshi; and Kitaguchi, Hiroshi, to Fuji Photo Film Co., Ltd. Heat-developable color light-sensitive material. 4,556,126, 4-7-87, Cl. 430-559.000.

Kato, Masatoshi: *See*—
Kitaguchi, Hiroshi; and Kato, Masatoshi, 4,639,408, Cl. 430-351.000.
Kitaguchi, Hiroshi; and Kato, Masatoshi, 4,670,373, Cl. 430-353.000.
Kitaguchi, Hiroshi; Kato, Masatoshi; Sato, Kozo; Takeuchi, Masasi; and Tsukase, Masaaki, 4,678,735, Cl. 430-203.000.
Kitaguchi, Hiroshi; Takeuchi, Masashi; Sato, Kozo; Tsukase, Masaaki; and Kato, Masatoshi, 4,678,739, Cl. 430-353.000.
Sato, Kozo; Kitaguchi, Hiroshi; Takeuchi, Masashi; Tsukase, Masaaki; and Kato, Masatoshi, 4,696,887, Cl. 430-203.000.
Tsukase, Masaaki; Sato, Kozo; Kitaguchi, Hiroshi; Takeuchi, Masashi; and Kato, Masatoshi, 4,695,525, Cl. 430-151.000.

Kato, Masayasu: *See*—
Naito, Kenzo; Kato, Masayasu; and Tsukamura, Kazuo, 4,642,365, Cl. 558-83.000.

Kato, Masayuki; Taguchi, Yoshio; Imai, Chihiro; and Makishima, Tokuo, deceased (by Makishima, Nobuko, legal representative), to Toa Nenryo Kogyo Kabushiki Kaisha. Methylstyrene maleimide copolymer. 4,683,275, 7-28-87, Cl. 526-262.000.

Kato, Masayuki: *See*—
Kunugi, Yoshiro; Suzuki, Shinichi; and Kato, Masayuki, 4,688,258, Cl. 381-103.000.
Niwa, Tadashi; Kato, Masayuki; Taguchi, Yoshio; and Imai, Chihiro, 4,704,438, Cl. 525-333.300.
Sugimoto, Shigeyuki; Kato, Masayuki; and Chonan, Katsuhiko, 4,678,980, Cl. 318-759.000.
Suzuki, Shinichi; Tokumo, Akio; Kunugi, Yoshiro; and Kato, Masayuki, 4,694,498, Cl. 381-103.000.
Ueda, Ikuo; Shiokawa, Youichi; Kato, Masayuki; Konishi, Nobukiyo; and Akahane, Atsushi, 4,686,227, Cl. 514-292.000.
Ueda, Ikuo; and Kato, Masayuki, 4,705,787, Cl. 514-259.000.
Yamazaki, Kozo; Yamagishi, Fumio; Ikeda, Hiroyuki; Inagaki, Takefumi; Sebata, Ichiro; Kitagawa, Shunji; Kato, Masayuki; and Ichikawa, Toshiyuki, 4,655,541, Cl. 350-3.710.

Kato, Masuhiro: *See*—
Yamada, Hirotada; Masai, Naruhito; Ueda, Sinji; Okuda, Takao; Fukasawa, Masatomo; Kato, Masuhiro; and Fukumura, Masataka, 4,705,784, Cl. 514-202.000.

Kato, Masumi: *See*—
Handa, Takayuki; Takeuchi, Yasushi; Kato, Masumi; and Seki, Hisazi, 4,684,430, Cl. 156-366.000.

Kato, Matsuo; Ohtsuki, Tomonari; Hashimoto, Kazuya; and Nakaide, Masami, to Daiichi Denshi Kogyo Kabushiki Kaisha; and Hitachi, Ltd. Multi contact connector having ground terminal block connected with tape wires and method of connecting tape wires to multi contact connector. 4,706,381, 11-17-87, Cl. 29-857.000.

Kato, Michitaka: *See*—
Saka, Kazuhiko; Hisano, Atsushi; Kato, Michitaka; Masaki, Toshimichi; and Nakatsuka, Nobuo, 4,703,512, Cl. 382-22.000.

Kato, Mikihiko; Komine, Shigeo; Morita, Kazuhiko; and Okuzawa, Yasutoshi, to Fuji Photo Film Co., Ltd. Method for forming protective layer on a flexible magnetic disc sheet. 4,647,473, 3-3-87, Cl. 427-44.000.

Kato, Mikihiko; Kato, Shinichi; Komatsu, Kazunori; and Komine, Shigeo, to Fuji Photo Film Co., Ltd. Method for making magnetic recording medium. 4,652,461, 3-24-87, Cl. 427-48.000.

Kato, Mikihiko; Komine, Shigeo; Okuzawa, Yasutoshi; and Morita, Kazuhiko, to Fuji Photo Film Co., Ltd. Flexible disk. 4,652,480, 3-24-87, Cl. 428-65.000.

Kato, Mikihiko; Komine, Shigeo; and Morita, Kazuhiko, to Fuji Photo Film Co., Ltd. Flexible magnetic disk sheet. 4,660,119, 4-21-87, Cl. 360-133.000.

Kato, Mikihiko; Komine, Shigeo; Koyota, Katsumi; and Nakata, Kouji, to Fuji Photo Film Co., Ltd. Flexible magnetic disc sheet. 4,671,978, 6-9-87, Cl. 428-65.000.

Kato, Mikihiko; Kato, Shinichi; Komatsu, Kazunori; and Komine, Shigeo, to Fuji Photo Film Co., Ltd. Apparatus for making magnetic recording medium. 4,672,913, 6-16-87, Cl. 118-623.000.

Kato, Mikihiko; Komine, Shigeo; Morita, Kazuhiko; and Okuzawa, Yasutoshi, to Fuji Photo Film Co., Ltd. Method for forming protective layer on a flexible magnetic disc sheet. 4,696,846, 9-29-87, Cl. 428-65.000.

Kato, Mikihiko; Okuzawa, Yasutoshi; Komine, Shigeo; and Morita, Kazuhiko, to Fuji Photo Film Co., Ltd. Flexible magnetic disk. 4,707,392, 11-17-87, Cl. 428-65.000.

Kato, Minoru, to Myotoku Ltd. Deburring apparatus. 4,690,594, 9-1-87, Cl. 408-159.000.

Kato, Minoru, to Canon Kabushiki Kaisha. Method for forming a deposition film. 4,699,799, 10-13-87, Cl. 427-37.000.

Kato, Minoru: *See*—
Miwa, Junichi; and Kato, Minoru, 4,635,086, Cl. 357-38.000.
Nakamura, Takehiro; Sato, Susumu; Hattori, Tadashi; Nabeta, Teiichi; and Kato, Minoru, 4,678,921, Cl. 250-574.000.
Nishimura, Ryuji; Kato, Minoru; Noda, Masaru; and Imaide, Takuya, 4,714,955, Cl. 358-48.000.
Noda, Masaru; and Kato, Minoru, 4,677,486, Cl. 358-166.000.
Ota, Kazuomi; Kato, Minoru; Narita, Seiichi; and Moriya, Mitutoshi, 4,649,282, Cl. 250-574.000.

Kato, Mitsuo: *See*—
Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Kato, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,649,860, Cl. 118-718.000.
Shimozato, Yoshio; Wada, Tetsuyoshi; Yanagi, Kenichi; Kato, Mitsuo; Furukawa, Heizaburo; Wake, Kanji; Morita, Arihiko; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,655,168, Cl. 118-718.000.
Umeda, Shozo; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Kato, Mitsuo; and Wada, Tetsuyoshi, 4,643,131, Cl. 118-718.000.

Kato, Mitsutaka: *See*—
Hirano, Masao; Kato, Mitsutaka; Yasuda, Hirohiko; and Hinoda, Seisuke, 4,710,033, Cl. 374-161.000.
Hisano, Atushi; Yamaguchi, Yoshinori; Masaki, Toshimichi; Saka, Kazuhiko; Nakatsuka, Nobuo; and Kato, Mitsutaka, 4,703,344, Cl. 358-60.000.

Kato, Mitsuyoshi: *See*—
Takahashi, Hiroshi; Kakizaki, Tetsuji; Kato, Mitsuyoshi; and Nishida, Koji, 4,702,554, Cl. 350-96.300.

Kato, Motokazu; and Matsumoto, Toshio, to Fujitsu Limited. Multiprocessor system including firmware. 4,654,779, 3-31-87, Cl. 364-200.000.

Kato, Motosaburo: *See*—
Fukushima, Shoji; Kato, Motosaburo; Mochizuki, Takashi; and Wada, Yukio, 4,681,645, Cl. 156-73.100.

Kato, Naoki: *See*—
Iwasa, Koji; Kamamori, Hitoshi; Suginoya, Mitsuru; Sano, Yutaka; Terada, Yumiko; Kato, Naoki; Suzuki, Tameyuki; Yasukawa, Jun-ichi; Nomura, Toyokazu; Tohda, Kazuo; and Itoh, Shinji, 4,670,188, Cl. 252-513.000.

Kato, Noboru; Matsuura, Hideji; and Umemura, Shinichiro, to Fuji Electrochemical Co., Ltd. Electronic circuit module. 4,701,830, 10-20-87, Cl. 361-395.000.

Kato, Noboru: *See*—
Nonaka, Masami; Kato, Noboru; and Hibi, Kazuhiro, 4,677,401, Cl. 333-167.000.
Tomibe, Shinji; Gomibuchi, Reizo; Takahashi, Kiyofumi; and Kato, Noboru, 4,690,854, Cl. 428-195.000.

Kato, Nobuhide; and Murase, Takao, to NGK Insulators, Ltd. Electric connection terminal for a sensor element utilizing ceramics. 4,668,375, 5-26-87, Cl. 204-426.000.

Kato, Nobuo: *See*—
Okuda, Shuji; Shimomura, Hideo; Honda, Kusuo; Kawaguchi, Masato; Kuno, Yasuo; Kumagai, Takenori; and Kato, Nobuo, 4,697,397, Cl. 52-223.00R.

Kato, Nobuyuki; and Kobayashi, Akira, to Toyo Seikan Kaisha, Ltd. Method of forming bottomed cylindrical bodies from a cylindrical body of thermoplastic resin. 4,701,295, 10-20-87, Cl. 264-519.000.

Kato, Nobuyuki: *See*—
Nakakura, Yukinori; and Kato, Nobuyuki, 4,695,479, Cl. 437-228.000.

  Okada, Mitsuhiko; Itoh, Hiroshi; Kato, Nobuyuki; and Takada, Mitsuru, 4,669,336, Cl. 74-867.000.
Kato, Norio; Nozaki, Shunkichi; Kimura, Yukihiro; and Kambe, Rokuro, to NGK Spark Plug Co. Ltd. Ceramic heater. 4,690,872, 9-1-87, Cl. 428-446.000.
Kato, Ryoichi: *See—*
  Sakurai, Akio; and Kato, Ryoichi, 4,681,726, Cl. 376-171.000.
Kato, Satoshi: *See—*
  Kobayashi, Kiyonori; Kamiya, Masakazu; and Kato, Satoshi, 4,663,983, Cl. 74-574.000.
Kato, Shigenobu: *See—*
  Bando, Yoshiaki; Asano, Teruyoshi; Kato, Shigenobu; and Tanioka, Katsuhiko, 4,678,161, Cl. 251-171.000.
Kato, Shigeo: *See—*
  Yoshimura, Takeshi; Sameshima, Mutsuro; Nakanishi, Toru; and Kato, Shigeo, 4,641,620, Cl. 123-432.000.
Kato, Shigeru; Osada, Naomi; Ichitoh, Toshikatsu; Murata, Masae; and Mochizuki, Masfumi, to Victor Company of Japan, Ltd. Thermal transfer recording apparatus. 4,641,151, 2-3-87, Cl. 346-76.0PH.
Kato, Shigeru, to Pioneer Electronic Corporation. Noise reduction compression system controlled by compressed output components which are in-band. 4,683,449, 7-28-87, Cl. 333-14.000.
Kato, Shigeru: *See—*
  Nakaho, Junichi; Kato, Shigeru; and Shinohara, Makoto, 4,693,558, Cl. 350-332.000.
Kato, Shinichi, to Olympus Optical Co., Ltd. Camera device for endoscope. 4,655,572, 4-7-87, Cl. 354-173.110.
Kato, Shinichi; Sasaki, Masahiko; Kato, Tadashi; Kanno, Masahide; Takahashi, Yutaka; and Saito, Katsuyuki, to Olympus Optical Co., Ltd. Control circuit for video endoscope. 4,706,118, 11-10-87, Cl. 358-98.000.
Kato, Shinichi: *See—*
  Kato, Mikihiko; Kato, Shinichi; Komatsu, Kazunori; and Komine, Shigeo, 4,652,461, Cl. 427-48.000.
  Kato, Mikihiko; Kato, Shinichi; Komatsu, Kazunori; and Komine, Shigeo, 4,672,913, Cl. 118-623.000.
  Maruyama, Masanori; Moriya, Masamichi; Kato, Shinichi; Fukushima, Masakazu; Nonaka, Yasuhiko; and Ogusu, Chihaya, 4,682,077, Cl. 315-14.000.
  Sato, Ken; Takahashi, Yutaka; Tsukaya, Takashi; Kato, Shinichi; and Hattori, Shinichiro, 4,646,724, Cl. 128-6.000.
  Shishido, Yoshio; Takahashi, Susumu; Matsuo, Kazumasa; Miyazaki, Atsushi; Nishigaki, Shinichi; Kato, Shinichi; Nakamura, Takeaki; and Ishikawa, Akibumi, 4,711,999, Cl. 250-204.000.
Kato, Shinichiro; Chiba, Teruo; and Igarashi, Tadao, to Sony Corporation. VTR tape cassette. 4,646,188, 2-24-87, Cl. 360-132.000.
Kato, Shinji: *See—*
  Uku, Kyouji; and Kato, Shinji, 4,680,320, Cl. 523-313.000.
  Yano, Hideo; Kano, Keiichi; Ozawa, Hitoshi; Kato, Shinji; and Takagi, Yoshio, 4,666,786, Cl. 428-544.000.
Kato, Shinjiro: *See—*
  Kunugi, Yoshiro; Tokumo, Akio; Yoshimi, Toshikazu; Kato, Shinjiro; Sasaki, Yoshio; Odaka, Makoto; and Sato, Takeshi, 4,648,117, Cl. 381-86.000.
Kato, Shinya: *See—*
  Muto, Yoshiyuki; Etani, Tadao; Aida, Satoru; and Kato, Shinya, 4,695,007, Cl. 242-58.400.
Kato, Shiro; and Hashimoto, Kiyokazu, to Matsushita Electric Industrial Co., Ltd. Chrominance signal processing apparatus. 4,672,426, 6-9-87, Cl. 358-12.000.
Kato, Shogo; Takase, Jun; Okada, Masanori; and Kuramochi, Kouziro, to Toyota Jidosha Kabushiki Kaisha. Transmission for use in motor vehicle. 4,653,346, 3-31-87, Cl. 74-701.000.
Kato, Shoichi; Shimano, Shizuo; Hayaoka, Tatsumi; and Masui, Akio, to Nippon Kayaku Kabushiki Kaisha. Certain mono-, di- or tri-substituted pyridyl esters of alkane sulfonic acids having insecticidal, acaricidal and nematocidal properties. 4,652,574, 3-24-87, Cl. 514-347.000.
Kato, Shoichi: *See—*
  Tsukamoto, Teisuke; Morohoshi, Shinichi; Iida, Tetsuo; Kishizawa, Yuji; Kato, Shoichi; Suzuki, Toshio; and Ebihara, Toshio, 4,698,975, Cl. 60-721.000.
Kato, Shoji, to Jeol Ltd. Charged-particle accelerator. 4,703,234, 10-27-87, Cl. 315-5.410.
Kato, Shoji: *See—*
  Kato, Kenji; and Kato, Shoji, 4,672,904, Cl. 112-457.000.
Kato, Shunichi: *See—*
  Ishida, Masahiro; Kato, Shunichi; and Takasu, Noboru, 4,688,733, Cl. 242-4.00R.
  Ishida, Masahiro; Kato, Shunichi; and Takasu, Noboru, 4,691,872, Cl. 242-4.00R.
  Ishida, Masahiro; Kato, Shunichi; and Takasu, Noboru, 4,694,999, Cl. 242-4.00R.
Kato, Shunsaku: *See—*
  Miyai, Yoshitaka; Ooi, Kenta; and Kato, Shunsaku, 4,665,049, Cl. 502-400.000.
Kato, Sunao: *See—*
  Yasuda, Shigeari; and Kato, Sunao, 4,675,844, Cl. 364-900.000.
Kato, Tadaharu; and Nishitani, Takao, to NEC Corporation. Speech signal detector having adaptive threshold values. 4,700,392, 10-13-87, Cl. 381-46.000.
Kato, Tadashi: *See—*
  Kato, Shinichi; Sasaki, Masahiko; Kato, Tadashi; Kanno, Masahide; Takahashi, Yutaka; and Saito, Katsuyuki, 4,706,118, Cl. 358-98.000.
Kato, Takaaki, to Nissin Kohki Co. Ltd. Optical mouse with X and Y line patterns on separate planes. 4,647,771, 3-3-87, Cl. 250-237.00R.
Kato, Takao: *See—*
  Asamaki, Tatsuo; and Kato, Takao, 4,638,209, Cl. 313-359.100.
  Misaki, Akira; Sone, Yoshiaki; and Kato, Takao, 4,639,516, Cl. 536-123.000.
Kato, Takashi: *See—*
  Morita, Yutaka; Katayama, Masayoshi; and Kato, Takashi, 4,648,281, Cl. 73-861.910.
  Narita, Yoshinori; and Kato, Takashi, 4,676,064, Cl. 60-272.000.
  Okamoto, Harutaka; Ichioka, Tetsumi; and Kato, Takashi, 4,652,036, Cl. 296-1.00S.
  Shibanai, Ichiro; Horikoshi, Koki; and Kato, Takashi, 4,681,934, Cl. 536-46.000.
  Uryu, Toshiyuki; and Kato, Takashi, 4,710,547, Cl. 525-437.000.
Kato, Takatsugu; and Takahashi, Takao, to Nissan Motor Co., Ltd. Loom. 4,711,273, 12-8-87, Cl. 139-116.000.
Kato, Takayuki; and Miyamoto, Makoto, to Aisin Seiki Kabushiki Kaisha. Oil mist dectector. 4,677,374, 6-30-87, Cl. 324-65.00R.
Kato, Takayuki; and Miyamoto, Makoto, to Aisin Seiki Kabushiki Kaisha. Oil mist detection method and apparatus. 4,686,453, 8-11-87, Cl. 324-65.00R.
Kato, Takayuki, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Method and apparatus for evaluating the performance of dielectric substances. 4,686,857, 8-18-87, Cl. 73-304.00R.
Kato, Takeo: *See—*
  Nakasaki, Eiji; Shirashoji, Hisashi; Hoshikawa, Katsuyuki; Kamijo, Takao; Ikeda, Kazushige; Inoue, Yasuhiro; and Kato, Takeo, 4,640,329, Cl. 152-209.00R.
Kato, Takeshi, to Rinnai Corporation. Water-pressure-operated gas valve for instantaneous gas water heater. 4,655,239, 4-7-87, Cl. 137-94.000.
Kato, Takuo: *See—*
  Yanagihara, Yasukichi; and Kato, Takuo, 4,699,946, Cl. 524-539.000.
Kato, Tatsuo: *See—*
  Ogaki, Hirokazu; Yasutomo, Yuichi; Kato, Yoshibumi; Kato, Tatsuo; and Suzuki, Takamitsu, 4,677,565, Cl. 364-479.000.
  Yatsu, Tadao; Nakano, Takayuki; Hinooka, Nobuya; and Kato, Tatsuo, 4,692,506, Cl. 528-296.000.
Kato, Teruyuki, to K.K. Iwai. Foldable support. 4,641,883, 2-10-87, Cl. 297-184.000.
Kato, Tetsuo; and Imaizumi, Tomio, to Tokico Ltd. Hydraulic damper of adjustable damping force type. 4,645,044, 2-24-87, Cl. 188-319.000.
Kato, Tetsuo; Isobe, Susumu; and Matsunaga, Kenkichi, to Daido Steel Company Limited. Heat-resisting steels. 4,650,645, 3-17-87, Cl. 420-111.000.
Kato, Tetsuro: *See—*
  Nakamura, Yoshiyuki; Kato, Tetsuro; and Ebihara, Norio, 4,641,202, Cl. 358-313.000.
Kato, Tetsuzo; and Katagiri, Nobuya, to Kanto Ishi Pharmaceutical Co., Ltd. Cyclic pyrazolo C-nucleoside compound and process for preparing the same. 4,656,260, 4-7-87, Cl. 536-55.000.
Kato, Tokuzo; Takayama, Tsutomu; and Kaji, Toshio, to Canon Kabushiki Kaisha. Color image sensing device. 4,638,350, 1-20-87, Cl. 358-29.000.
Kato, Tokuzo, to Canon Kabushiki Kaisha. Image sensing device. 4,638,365, 1-20-87, Cl. 358-228.000.
Kato, Tomio, to Sharp Kabushiki Kaisha. Multi-system television receiver. 4,688,082, 8-18-87, Cl. 358-21.00R.
Kato, Tomoaki: *See—*
  Kadokura, Susumu; Sawayama, Ippei; Kato, Tomoaki; and Okamoto, Tadashi, 4,709,221, Cl. 336-200.000.
Kato, Tomokazu, to Ricoh Company, Ltd. Image processing system comprising dither screen size selection based on image periodicity. 4,651,293, 3-17-87, Cl. 364-602.000.
Kato, Toshiaki, to Fuji Electric Co., Ltd. Solid state image sensor having an anti-blooming isolation electrode. 4,679,089, 7-7-87, Cl. 358-213.190.
Kato, Toshiaki, to Fuji Electric Co., Ltd. Contact type image sensor having multiple common electrodes to provide increased pixel density. 4,691,242, 9-1-87, Cl. 358-294.000.
Kato, Toshiaki; Ueno, Masakazu; and Nishiura, Masaharu, to Fuji Electric Co., Ltd. Image sensor and method of making. 4,698,494, 10-6-87, Cl. 250-211.00R.
Kato, Toshiaki: *See—*
  Ueno, Masakazu; and Kato, Toshiaki, 4,664,748, Cl. 156-659.100.
Kato, Toshiji; and Omori, Tatsuya, to Onkyo Kabushiki Kaisha. Dome speaker with a diaphragm having at least one elongated cut-out portion. 4,709,392, 11-24-87, Cl. 381-193.000.
Kato, Toshinobu: *See—*
  Kutsukake, Mitsuhiro; Murata, Takahiko; Saito, Gunji; Komatsuzaki, Takeshi; Uehara, Kuniaki; Kato, Toshinobu; Hattori, Takeo, and Hayashida, Morimasa, 4,711,077, Cl. 56-320.200.
Kato, Toshio; Kinoshita, Takao; and Tojo, Akihiko, to Canon Kabushiki Kaisha. Image pickup device of the frame transfer type and image pickup arrangement using the same. 4,635,122, 1-6-87, Cl. 358-213.000.
Kato, Toshio: *See—*
  Kimura, Akihiro; Ando, Toshio; Nishihara, Toshikazu; and Kato, Toshio, 4,664,976, Cl. 428-336.000.
Kato, Toshiro: *See—*
  Noguchi, Hiroshi; Kato, Toshiro; Takahashi, Junya; Ishiguro, Yukio; Yamamoto, Shigeo; and Hirata, Naonori, 4,666,943, Cl. 514-627.000.

Sakamoto, Kazuhiko; Nakatsuji, Toshiharu; Mototani, Hideo; Kamoshita, Katsuzo; Nakayama, Isamu; and Kato, Toshiro, 4,654,368, Cl. 514-493.000.

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Takahashi, Junya; Noguchi, Hiroshi; Oguri, Yukio; Yamamoto, Shigeo; Kato, Toshiro; and Kamoshita, Katsuzo, 4,672,070, Cl. 514-346.000.

Takahashi, Junya; Sasaki, Mitsuru; Noguchi, Hiroshi; and Kato, Toshiro, 4,686,232, Cl. 514-365.000.

Takahashi, Junya; Kato, Toshiro; and Kamoshita, Katsuzo, 4,690,946, Cl. 514-485.000.

Takahashi, Junya; Kato, Toshiro; and Kamoshita, Katsuzo, 4,710,514, Cl. 514-485.000.

Kato, Toshiyuka: *See—*

Shiomi, Kengo; Asai, Toshimasa; and Kato, Toshiyuka, 4,674,424, Cl. 112-237.000.

Kato, Toshiyuki: *See—*

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Ojima, Masahiro; Saito, Atsushi; and Kato, Tsuyoshi, 4,672,593, Cl. 369-13.000.

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Kato, Yasuhiro; and Koyama, Mitsuhiro, to Yamada Iryo Shomei Kabushiki Kaisha. Shadowless lighting equipment for medical use. 4,639,838, 1-27-87, Cl. 362-33.000.

Kato, Yasuki; Hayakawa, Eiji; Furuya, Kunitoshi; and Kondo, Akira, to Kwoya Hakko Kogyo Co., Ltd. Method for solubilization of interferon. 4,675,183, 6-23-87, Cl. 424-85.000.

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Endoh, Seiji; Kimura, Kunio; Ohta, Toshihiko; and Kato, Yasuo, 4,673,724, Cl. 528-206.000.

Kamiyama, Kiichi; and Kato, Yasuo, 4,712,895, Cl. 351-243.000.

Konagaya, Shigeji; Watanabe, Osamu; Kuzumoto, Hideshi; Tokai, Masaya; Narusawa, Haruhiko; and Kato, Yasuo, 4,695,383, Cl. 210-500.370.

Kondo, Kunio; Haga, Katutoshi; Haga, Minoru; Kato, Yasuo; and Kaneko, Shinobu, 4,642,005, Cl. 409-232.000.

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Kato, Yoichi: *See—*

Izumi, Toshio; Saito, Ryozo; Kato, Yoichi; and Miyata, Hiroshi, 4,691,284, Cl. 364-424.000.

Kato, Yoji; Watanabe, Seiichi; and Wada, Masaru, to Sony Corporation. Semiconductor apparatus. 4,695,862, 9-22-87, Cl. 357-36.000.

Kato, Yoji: *See—*

Wada, Masaru; and Kato, Yoji, 4,698,122, Cl. 156-625.000.

Kato, Yoshiaki, to Canon Kabushiki Kaisha. Image communication apparatus. 4,712,139, 12-8-87, Cl. 358-257.000.

Kato, Yoshiaki: *See—*

Niwa, Toshio; and Kato, Yoshiaki, 4,645,832, Cl. 534-637.000.

Kato, Yoshibumi: *See—*

Ogaki, Hirokazu; Kato, Yoshibumi; and Furukawa, Satoshi, 4,654,799, Cl. 364-479.000.

Ogaki, Hirokazu; Yasutomo, Yuichi; Kato, Yoshibumi; Kato, Tatsuo; and Suzuki, Takamitsu, 4,677,565, Cl. 364-479.000.

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Kuze, Saburo; Kato, Yoshiharu; and Kojima, Shozo, 4,698,192, Cl. 264-101.000.

Kato, Yoshihide: *See—*

Nishimura, Eiji; Takigawa, Tadahiro; and Kato, Yoshihide, 4,712,013, Cl. 250-492.200.

Kato, Yoshihisa, to Sumitomo Metal Mining Company Limited. Method of making a lead frame for integrated circuits. 4,633,583, 1-6-87, Cl. 29-827.000.

Kato, Yoshihisa: *See—*

Fujimoto, Masashi; and Kato, Yoshihisa, 4,693,918, Cl. 428-35.000.

Kato, Yoshiko: *See—*

Satoh, Toshio; Matsumoto, Hitoshi; Kakegawa, Hisao; Kato, Yoshiko; Riku, Juichi; Yoshinaga, Junji; and Kanamoto, Yoshifumi, 4,634,777, Cl. 548-561.000.

Kato, Yoshimisa, to Midori Anzen Industry Co., Ltd. Portable oxygen inhaler. 4,671,270, 6-9-87, Cl. 128-202.260.

Kato, Yoshinori; Igarashi, Masami; and Kamijo, Yoshimi, to Alps Electric Co., Ltd. Dispersion electroluminescent element. 4,661,373, 4-28-87, Cl. 427-66.000.

Kato, Yoshinori: *See—*

Kamijo, Yoshimi; Kato, Yoshinori; and Ikarashi, Masami, 4,653,186, Cl. 29-838.000.

Kamijo, Yoshimi; Kato, Yoshinori; and Ikarashi, Masami, 4,667,128, Cl. 313-505.000.

Kato, Yoshio: *See—*

Numaho, Yoshio; Kato, Yoshio; Ogawa, Tetsuro; Okada, Hiroshi; and Arima, Kiyoshi, 4,663,630, Cl. 342-176.000.

Kato, Yoshitake; Fujita, Minoru; and Maruyama, Hiroshi, to Hitachi Maxell, Ltd. Shutter assembly for use in a disc cartridge. 4,714,973, 12-22-87, Cl. 360-133.000.

Kato, Yuichi: *See—*

Shimura, Ryoji; and Kato, Yuichi, 4,650,231, Cl. 292-340.000.

Kato, Yujiro: *See—*

Ui, Masahito; Akiyama, Hideo; Todokoro, Akio; Natsui, Yukio; Kogure, Hiroshi; Kato, Yujiro; and Ozaki, Tsuneo, 4,667,400, Cl. 29-825.000.

Ui, Masahito; Akiyama, Hideo; Todokoro, Akio; Natsui, Yukio; Kogure, Hiroshi; Kato, Yujiro; and Ozaki, Tsuneo, 4,686,328, Cl. 174-153.00R.

Kato, Yukio; Komori, Mikio; and Yonai, Tadao, to Japan Tobacco Inc. Method of and apparatus for inspecting cigarette paper. 4,677,993, 7-7-87, Cl. 131-280.000.

Kato, Yushi; Suzuki, Shoichi; and Inoue, Akira, to Diesel Kiki Co., Ltd. Fuel injection pump for internal combustion engines. 4,652,221, 3-24-87, Cl. 417-500.000.

Kato, Yushi, to Diesel Kiki Co., Ltd. Fuel injection pump for internal combustion engines. 4,685,870, 8-11-87, Cl. 417-500.000.

Kato, Yutaka, to Matsushita Electric Works, Ltd. Jack for telephone set. 4,713,016, 12-15-87, Cl. 439-137.000.

Kato, Yuzo; and Suzuki, Hidetoshi, to Canon Kabushiki Kaisha. Method and apparatus for changing image size. 4,686,580, 8-11-87, Cl. 358-287.000.

Katogi, Kouzou: *See—*

Kugo, Masaru; Ouchi, Hideyuki; Katogi, Kouzou; Igarashi, Osamu; Suda, Seiji; Tokuyama, Keiichi; and Yamamura, Hirohisa, 4,708,440, Cl. 350-339.00F.

Katogi, Kozo: *See—*

Kugo, Masaru; Igarashi, Osamu; Katogi, Kozo; Ito, Hiroshi; and Nakamura, Mamoru, 4,673,252, Cl. 350 V-339.00F.

Masuda, Mitsuhiro; Igarashi, Osamu; Tokuyama, Keiichi; and Katogi, Kozo, 4,649,381, Cl. 340-784.000.

Yamamura, Hirohisa; Naito, Shotaro; and Katogi, Kozo, 4,665,497, Cl. 364-561.000.

Katoh, Akira; Ida, Masatoshi; Shijima, Kouichi; Oishi, Makoto; Hashimoto, Akihiko; and Takahashi, Shinya, to Olympus Optical Co., Ltd. Exposure control device for electronic photographing apparatus. 4,641,215, 2-3-87, Cl. 360-35.100.

Katoh, Hideo; and Hasegawa, Kinji, to Teijin Limited. Polyester film for magnetic recording media. 4,670,319, 6-2-87, Cl. 428-141.000.

Katoh, Hiroyuki, to Sharp Kabushiki Kaisha. Continuous substantially planar microwave oven door assembly. 4,713,511, 12-15-87, Cl. 219-10.55D.

Katoh, Itsurou, to Sharp Kabushiki Kaisha. Electrophotographic copier. 4,682,879, 7-28-87, Cl. 355-3.000.

Katoh, Kaname: *See—*

Takata, Hideyuki; Tokushima, Yasuo; Katoh, Kaname; and Tachi, Hideo, 4,670,994, Cl. 34-39.000.

Katoh, Katsunori: *See—*

Iijima, Toshifumi; Kumashiro, Kenji; Kashiwagi, Hiroshi; Hatta, Koichi; Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; and Shinozaki, Kaoru, 4,665,015, Cl. 430-558.000.

Kaneko, Yutaka; Kadokura, Kenji; Kimura, Toshihiko; Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; and Shinozaki, Kaoru, 4,675,280, Cl. 430-558.000.

Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; Iijima, Toshijumi; Kumashiro, Kenji; Kashiwagi, Hiroshi; Hatta, Koichi; Uchida, Takashi; Wada, Hajime; Ishii, Fumio; Matsunaga, Satoshi; Matsubara, Yasuko; and Shinozaki, Kaoru, 4,695,533, Cl. 430-558.000.

Katoh, Kazunobu; and Takaki, Hideki, to Fuji Photo Film Co., Ltd. Photographic element for silver salt diffusion transfer process with I ion capturing layer. 4,689,287, 8-25-87, Cl. 430-230.000.

Katoh, Kazunobu, to Fuji Photo Film Co., Ltd. Silver salt diffusion transfer photographic element with cationic polymer. 4,701,400, 10-20-87, Cl. 430-233.000.

Katoh, Kenji: *See—*

Uemura, Seiichi; Hirose, Takao; Sohda, Yoshio; Sakamoto, Takayoshi; and Katoh, Kenji, 4,656,022, Cl. 423-447.200.

Katoh, Kinya, to Nippon Kogaku K. K. Projection type exposing apparatus. 4,710,029, 12-1-87, Cl. 356-401.000.

Katoh, Kiroyuki, to Sharp Kabushiki Kaisha. Door safety switch-lock assembly for an electrical apparatus. 4,672,160, 6-9-87, Cl. 219-10.55C.

Katoh, Masao: *See*—

Endo, Hiroshi; Katoh, Masao; and Hino, Kuniaki. 4,681,764, Cl. 424-125.000.

Katoh, Masashi: *See*—

Oshikoshi, Yuji; Katoh, Masashi; and Kikuchi, Hisashi. 4,677,046, Cl. 430-202.000.

Takahashi, Tomoyuki; Katoh, Masashi; and Kikuchi, Hisashi. 4,647,168, Cl. 354-86.000.

Katoh, Mitsumi, to Nippon Gakki Seizo Kabushiki Kaisha. Tone signal processing device. 4,701,956, 10-20-87, Cl. 381-61.000.

Katoh, Mitsuo: *See*—

Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Katoh, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji. 4,674,443, Cl. 118-733.000.

Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Katoh, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji. 4,676,999, Cl. 427-250.000.

Katoh, Mitsutaka: *See*—

Mikami, Kazuo; Yamashita, Tsukasa; and Katoh, Mitsutaka. 4,712,854, Cl. 350-96.120.

Katoh, Ryoki: *See*—

Mita, Tsunemasa; Katoh, Ryoki; Sekimoto, Seiichi; Shiratsuki, Yoshiyuki; and Arisawa, Hiroshi. 4,697,204, Cl. 357-74.000.

Katoh, Shinji: *See*—

Miyata, Hiroshi; and Katoh, Shinji. 4,693,332, Cl. 180-142.000.

Katoh, Shoichi: *See*—

Nishigaki, Satoshi; Itoh, Masataka; and Katoh, Shoichi. 4,644,406, Cl. 358-213.000.

Okibayashi, Katsushi; Itoh, Masataka; and Katoh, Shoichi. 4,641,359, Cl. 382-68.000.

Okibayashi, Katsushi; and Katoh, Shoichi. 4,650,985, Cl. 250-211.00R.

Katoh, Sumio: *See*—

Sugihara, Shoichi; and Katoh, Sumio. 4,684,976, Cl. 358-31.000.

Katoh, Tadayoshi: *See*—

Shimoda, Kaneyasu; Katoh, Tadayoshi; and Agemi, Yuzo. 4,710,746, Cl. 340-347.0DD.

Katoh, Takashi; and Tanimura, Yoshihisa, to Agency of Industrial Science & Technology; and Ministry of International Trade and Industry. Reflecting mirror assembly for autocollimator. 4,650,298, 3-17-87, Cl. 350-602.000.

Katoh, Takeshi: *See*—

Fukushima, Tadashi; Kobayashi, Yoshiki; Okuyama, Yoshiyuki; Katoh, Takeshi; and Kashioka, Seiji. 4,665,556, Cl. 382-41.000.

Katoh, Taro, to Amada Company, Limited. Feed bar operating device for a transfer press. 4,674,624, 6-23-87, Cl. 198-621.000.

Katoh, Tomio, to TDK Corporation. Thermal reed switch assembly. 4,703,296, 10-27-87, Cl. 335-208.000.

Katoh, Toshio: *See*—

Mita, Ryuichi; Katoh, Toshio; Higuchi, Chojiro; and Yamaguchi, Akihiro. 4,675,439, Cl. 562-443.000.

Katoh, Toyotoshi: *See*—

Shimada, Yukio; Obata, Yutaka; Takeoka, Takahisa; and Katoh, Toyotoshi. 4,658,595, Cl. 62-179.000.

Katoh, Tutomu; and Yamamoto, Hiranaga, to Sharp Kabushiki Kaisha. Fixing roller pressing mechanism for copying machines. 4,696,561, 9-29-87, Cl. 355-3.0FU.

Katoh, Yasuhiro: *See*—

Sato, Naoki; Kamo, Yoshihisa; Katoh, Yasuhiro; Kosuge, Minoru; and Arai, Shinichi. 4,716,309, Cl. 307-296.00R.

Katoh, Yasuo: *See*—

Leng, Svay; Saitoh, Hiroyuki; Inui, Toshiharu; Koizumi, Norihiko; Moriguchi, Haruhiko; Omori, Takashi; Kurata, Masami; and Katoh, Yasuo. 4,638,372, Cl. 358-296.000.

Katoh, Yoshiaki: *See*—

Niwa, Toshio; and Katoh, Yoshiaki. 4,686,286, Cl. 534-637.000.

Katoh, Yoshiichi: *See*—

Ogasawara, Kazuo; Katoh, Yoshiichi; and Takahashi, Hideo. 4,651,037, Cl. 307-572.000.

Katoh, Yoshimori: *See*—

Yamatsu, Isao; Abe, Shinya; Inai, Yuichi; Suzuki, Takeshi; Kinoshita, Kensaku; Mishima, Mannen; Katoh, Yoshimori; Kobayashi, Seiichi; Murakami, Manabu; and Yamada, Kouzi. 4,709,079, Cl. 560-66.000.

Katoh, Yoshio: *See*—

Fujimura, Toshiaki; Katoh, Yoshio; Imahashi, Satoshi; Seto, Koichi; and Tanaka, Shinichi. 4,699,859, Cl. 430-15.000.

Katoh, Yukio: *See*—

Shimokawa, Masahide; Katoh, Yukio; Furuichi, Noriyasu; Miyazawa, Takeshi; and Ogano, Takeo. 4,676,350, Cl. 192-3.620.

Katohno, Takashi; and Koyama, Ryouhei, to Asahi Kasei Kogyo Kabushiki Kaisha. Disc for rotary encoder and method for producing same. 4,673,808, 6-16-87, Cl. 250-231.0SE.

Katoku, Takashi, to Sony Corporation. Magnetic tape cassette with tape reel assembly having floating reel hub. 4,654,740, 3-31-87, Cl. 360-132.000.

Katona, Joseph W., to Mills Products, Inc. Handle construction. 4,638,529, 1-27-87, Cl. 16-111.00R.

Katopodis, Nonda, to Diamon Systems, Inc. Method for determining lipid bound sialic acid in whole blood. 4,701,418, 10-20-87, Cl. 436-64.000.

Katori, Tatsuhiko: *See*—

Nishikawa, Yoshihiro; Kanemitsu, Kunihiro; Katori, Tatsuhiko; Shibata, Akihiro; and Kukita, Kenichi. 4,684,719, Cl. 536-119.000.

Sato, Susumu; Honda, Haruyoshi; Koumoto, Teruo; Isoma, Kazuo; Kuraishi, Tadayuki; and Katori, Tatsuhiko. 4,689,710, Cl. 514-234.000.

Sato, Susumu; Honda, Haruyoshi; Koumoto, Teruo; Isoma, Kazuo; Kuraishi, Tadayuki; and Katori, Tatsuhiko. 4,690,924, Cl. 514-237.000.

Katou, Akito, to Matsushita Electric Industrial Co., Ltd. Deflecting yoke. 4,712,080, 12-8-87, Cl. 335-213.000.

Katou, Toshiaki: *See*—

Nishiura, Masaharu; and Katou, Toshiaki. 4,665,008, Cl. 430-314.000.

Katou, Yasuo: *See*—

Ishikawa, Noriyoshi; Takahashi, Haruhiko; Funato, Hitoshi; Leng, Svay; Saitoh, Hiroyuki; Ohmori, Takashi; Kurata, Masami; and Katou, Yasuo. 4,661,703, Cl. 250-317.100.

Takahashi, Haruhiko; Inui, Toshiharu; Saitoh, Hiroyuki; Ishikawa, Noriyoshi; Funato, Hitoshi; Ohmori, Takashi; Kurata, Masami; and Katou, Yasuo. 4,709,149, Cl. 250-317.100.

Katou, Yoshiaki; Ueoka, Joe; and Yoshida, Satoshi, to Fuji Photo Film Co., Ltd. Coil conductor structure in thin-film magnetic head. 4,703,383, 10-27-87, Cl. 360-126.000.

Katou, Yoshiaki: *See*—

Iwata, Akihiko; Katou, Yoshiaki; and Mizuno, Masanori. 4,665,26 Cl. 219-130.210.

Yoshida, Satoshi; Ueoka, Joe; and Katou, Yoshiaki. 4,662,093, Cl. 156-643.000.

Katou, Yukio; Suzuki, Takehiro; and Shimada, Susumu, to Japan Tobacco Inc. Guidance system for unmanned transporting vehicle. 4,711,316, 12-8-87, Cl. 180-168.000.

Katou, Yuuji; and Yoshida, Kiyoshi, to Nissan Motor Co., Ltd. Method and apparatus for automatic transmission cruise control. 4,659,[illegible] 4-21-87, Cl. 180-175.000.

Katou, Yuuji, to Nissan Motor Co., Ltd. Method and apparatus for automatic transmission cruise control. 4,660,672, 4-28-87, Cl. 180-175.000.

Katrencik, Gerald: *See*—

Johnson, Clyde R.; Hawrylak, Raymond; and Katrencik, Gerald. 4,702,694, Cl. 432-133.000.

Katrenick, Stephen E.: *See*—

Ahmad, Shamim; Lee, Zion S.; and Katrenick, Stephen E. 4,703,079, Cl. 524-495.000.

Katritzky, Alan R.; Heilmann, Steven M.; Krepski, Larry R.; Rasmussen, Jerald K.; and Tarr, Richard D., to Minnesota Mining and Manufacturing Company. Thiazolinethione-containing polymer. 4,659,801, 4-21-87, Cl. 528-226.000.

Katritzky, Alan R.: *See*—

Rasmussen, Jerald K.; Katritzky, Alan R.; Krepski, Larry R.; Smith, Howell K., II; Heilmann, Steven M.; and Sakizadeh, Kumars. 4,667,012, Cl. 528-332.000.

Katryniok, Christine, legal representative: *See*—

Schmoede, Peter; Katryniok, Detlef, deceased; and Rauh, Jost F. 4,643,235, Cl. 141-1.100.

Katryniok, Detlef, deceased: *See*—

Schmoede, Peter; Katryniok, Detlef, deceased; and Rauh, Jost F. 4,643,235, Cl. 141-1.100.

Katsaros, James. Locking device for a door lock. 4,715,200, 12-29-87, Cl. 70-211.000.

Katscher, Erich: *See*—

Forner, Siegfried; Katscher, Erich; and Ring, Stefan. 4,659,231, Cl. 376-310.000.

Katsma, William L.: *See*—

Skogler, Brian L.; Nyhof, Eldon J.; and Katsma, William L. 4,646,210, Cl. 362-142.000.

Katsof, Barry; Waxman, Ronald G.; and Matlin, Joel. System and method for forecasting bank traffic and scheduling work assignments for bank personnel. 4,700,295, 10-13-87, Cl. 364-401.000.

Katsube, Junki; Nakamura, Mitsutaka; and Maeda, Yukio, to Sumitomo Pharmaceuticals Company, Limited. Method for treatment of anuresis employing serine derivatives. 4,647,587, 3-3-87, Cl. 514-567.000.

Katsube, Junki: *See*—

Ohashi, Naohito; Nagata, Shoji; Nakatsuka, Masashi; Ishizumi, Kikuo; Katsube, Junki; Aono, Shunji; and Sakurama, Teruo. 4,695,580, Cl. 514-412.000.

Katsube, Masayoshi: *See*—

Higuchi, Yukio; and Katsube, Masayoshi. 4,665,041, Cl. 501-134.000.

Katsube, Ryoji: *See*—

Kouyama, Toshitake; and Katsube, Ryoji. 4,644,400, Cl. 358-149.000.

Katsube, Teruaki: *See*—

Sata, Toshikatsu; Katsube, Teruaki; and Iida, Yoshiya. 4,715,691, Cl. 350-357.000.

Katsuda, Morihiko: *See*—

Masuda, Shigeo; Katsuda, Morihiko; and Ueoka, Isao. 4,647,474, Cl. 427-44.000.

Katsuda, Yoshio; Yoshinaga, Sadao; and Mashine, Hiroyoshi, to Dainihon Jochugiku Co., Ltd. Thermal fumigator for drugs. 4,693,366

Katsuhara, Yutaka: *See*—

Inoue, Fumio; Katsuhara, Yutaka; and Okazaki, Koshi, 4,691,066, Cl. 570-144.000.

Katsuhiko, Kobayashi: *See*—

Takashi, Shioiri; Katsuhiko, Kobayashi; and Hideo, Tago, 4,679,920, Cl. 351-226.000.

Katsui, Yoshihiro: *See*—

Takagi, Yoshiaki; Katsui, Yoshihiro; Endo, Hiroyuki; and Ikemoue, Yutaka, 4,702,771, Cl. 75-241.000.

Katsukawa, Hiroyuki: *See*—

Kawaguchi, Toshiyuki; Katsukawa, Hiroyuki; Nakanishi, Kazumi; and Tanaka, Naoki, 4,648,131, Cl. 455-606.000.

Katsukawa, Satoshi, to Brother Kogyo Kabushiki Kaisha. Dot-matrix printer with dot counter for efficient high-quality printing. 4,653,940, 3-31-87, Cl. 400-121.000.

Katsukawa, Satoshi, to Brother Kogyo Kabushiki Kaisha. Printer with a device for preventing print head from interfering with temporary tender portions of multiple-sheet recording medium. 4,668,114, 5-26-87, Cl. 400-279.000.

Katsuki, Hikaru: *See*—

Itani, Kiyoshi; Tokizaki, Hisashi; Funagoshi, Tomohide; Ohtsuka, Nobuo; Ohkubo, Katsuhiro; and Katsuki, Hikaru, 4,698,744, Cl. 364-140.000.

Katsuki, Hiroshi; and Damoto, Akio, to Sumitomo Chemical Company, Limited. Resin composition for soft bumpers. 4,707,514, 11-17-87, Cl. 524-505.000.

Katsuma, Makoto: *See*—

Makoujima, Hitoshi; Hiramatsu, Akira; Murakami, Hiroyasu; and Katsuma, Makoto, 4,634,915, Cl. 310-323.000.

Nonagashira, Hidefumi; Sumi, Akiyasu; Inaba, Hiroyoshi; Katsuma, Makoto; Murakami, Hiroyasu; and Hiramatsu, Akira, 4,660,933, Cl. 350-255.000.

Katsumata, Fujio: *See*—

Ezura, Toyokazu; Katsumata, Fujio; and Ikeya, Kiyokazu, 4,715,823, Cl. 439-267.000.

Katsumata, Haruo: *See*—

Tamura, Mitsuhiko; Katsumata, Haruo; and Nakanome, Takemi, 4,647,677, Cl. 549-462.000.

Tamura, Mitsuhiko; Katsumata, Haruo; Urakawa, Kiyoharu; and Ohtani, Yoshiaki, 4,668,827, Cl. 568-345.000.

Katsumata, Kenichiro, to Kabushiki Kaisha Toshiba. X-ray tomographic apparatus and method using parallel A/D conversions of detector channel signals. 4,636,584, 4-7-87, Cl. 364-414.000.

Katsumata, Masao: *See*—

Kitada, Masahiro; Tanabe, Hideo; Shimizu, Noboru; Tsuchiya, Hiroshi; and Katsumata, Masao, 4,663,607, Cl. 338-32.00H.

Katsumata, Mitsuo, to Kokusan Denki Co., Ltd. Internal combustion engine electrical system. 4,661,761, 4-28-87, Cl. 322-28.000.

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Katsumata, Shigeo: *See*—

Ishii, Shinzo; Katsumata, Shigeo; Arai, Yukou; Fujimoto, Kazuhisa; and Morimoto, Makoto, 4,649,199, Cl. 544-342.000.

Katsumi, Hideo: *See*—

Kikuchi, Shunichi; Matsunaga, Haruyuki; Katsumi, Hideo; and Katsuyama, Koji, 4,712,158, Cl. 361-385.000.

Katsumoto, Naoaki; and Miyagawa, Toshihito, to Shiroki Kinzoku Kogyo Kabushiki Kaisha, and Toyota Jidosha Kabushiki Kaisha. Reclining angle adjustment device. 4,715,655, 12-29-87, Cl. 297-362.000.

Katsumoto, Takehiko; Oota, Seiichi; and Kitada, Taizou, to Mitsubishi Jidosha Kogyo Kabushiki Kaisha. Engine intake passage length varying device. 4,646,699, 3-3-87, Cl. 123-52.0MB.

Katsuno, Hiroshi, to Tokai Sogo Sekkei Kabushiki Kaisha. Anti-impact safety apparatus for robot. 4,700,932, 10-20-87, Cl. 267-136.000.

Katsuno, Hisashi; Murakawa, Takashi; and Yoneda, Toshikazu, to Research Association For Utilization of Light Oil. Catalyst for the production of aromatic hydrocarbons. 4,681,865, 7-21-87, Cl. 502-74.000.

Katsuno, Mitsuaki; Gyoda, Toshio; Tanoka, Hideki; Harumoto, Kunihiro; Yoshitsugu, Noritada; and Matsui, Kenji, to Kabushiki Kaisha Tokai-Rika-Denki-Seisakusho; and Toyota Jidosha Kabushiki Kaisha. Webbing retaining structure. 4,682,790, 7-28-87, Cl. 280-801.000.

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Chujo, Yoshiki; Kayanuma, Nobuaki; Bessho, Hironori; Masui, Takatoshi; Nagai, Toshinari; Katsuno, Toshiyasu; and Tanahashi, Toshio, 4,693,076, Cl. 60-274.000.

Chujo, Yoshiki; Kayanuma, Nobuaki; Bessho, Hironori; Masui, Takatoshi; Katsuno, Toshiyasu; and Tanahashi, Toshio, 4,703,619, Cl. 60-274.000.

Nagai, Toshinari; Masui, Takatoshi; Sato, Yasushi; and Katsuno, Toshiyasu, 4,707,985, Cl. 60-274.000.

Nagai, Toshinari; Masui, Takatoshi; Satou, Yasushi; and Katsuno, Toshiyasu, 4,712,373, Cl. 60-274.000.

Katsuoka, Norio: *See*—

Ikeda, Akitoshi; Nishimura, Chitoshi; Katsuoka, Norio; and Obara, Masami, 4,715,582, Cl. 254-134.3CL.

Katsura, Hiromitsu; Ebashi, Shigeyuki; Kashioka, Motohiko; and Sakamoto, Makoto, to Toyo Ink Manufacturing Co., Ltd. Pigment composition. 4,664,714, 5-12-87, Cl. 106-308.00N.

Katsura, Hiroo; Yao, Keiji; and Koyama, Kazuya, to Sharp Kabushiki Kaisha. Recording apparatus. 4,658,270, 4-14-87, Cl. 346-76.0PH.

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Katsura, Koyo; and Maejima, Hideo, to Hitachi, Ltd. Pipelined data processor system having increased processing speed. 4,677,549, 6-30-87, Cl. 364-200.000.

Katsura Roller Mfg. Co., Ltd.: *See*—

Yasukawa, Akio; and Misuna, Yoshihiro, 4,672,825, Cl. 66-194.000.

Katsura, Tadahiko: *See*—

Matsubayashi, Hiroshi; Hirota, Kazumi; Iwamoto, Hisao; Fujiwara, Tamio; Sato, Nobuyuki; and Katsura, Tadahiko, 4,686,152, Cl. 428-607.000.

Katsura, Tadashi: *See*—

Minai, Masayoshi; and Katsura, Tadashi, 4,665,174, Cl. 544-59.000.

Katsura, Toru, to Mitsubishi Paper Mills, Ltd. Polyolefin coated photographic paper support. 4,665,014, 5-12-87, Cl. 430-538.000.

Katsura, Yoshiro, to Terumo Kabushiki Kaisha. Apparatus for removing bubbles from a liquid. 4,690,762, 9-1-87, Cl. 210-436.000.

Katsura, Yousuke: *See*—

Ueda, Ikuo; Shiokawa, Youichi; Manabe, Takashi; and Katsura, Yousuke, 4,675,324, Cl. 514-293.000.

Ueda, Ikuo; Shiokawa, Youichi; Manabe, Takashi; and Katsura, Yousuke, 4,692,444, Cl. 514-406.000.

Katsuragawa Denki Kabushiki Kaisha: *See*—

Takizawa, Tatsuji; Noda, Nobutaka; and Takigawa, Hideaki, 4,682,878, Cl. 355-3.0FU.

Katsuragawa, Mitsuhiro: *See*—

Suzuki, Nobuyuki; Shimizu, Masao; and Katsuragawa, Mitsuhiro, 4,713,571, Cl. 310-316.000.

Katsuragi, Koji; Ozaki, Hirofumi; Kawahara, Yoshihiro; Matsumoto, Hideki; Tomoe, Tetsuro; and Kobayashi, Kazuhiro, to Mita Industrial Co., Ltd. Ink ribbon cassette for use in printer. 4,687,357, 8-18-87, Cl. 400-208.000.

Katsuragi, Shigeo: *See*—

Morita, Kaoru; Katsuragi, Shigeo; and Noda, Toshiharu, 4,656,250, Cl. 530-324.000.

Katsuragi, Shigeru, to Ricoh Company, Ltd. Temperature control device for head of thermal printer. 4,651,166, 3-17-87, Cl. 346-76.0PH.

Katsuragi, Tohoru: *See*—

Sakai, Takeo; and Katsuragi, Tohoru, 4,686,187, Cl. 435-275.000.

Katsuragi, Yasuhiro; Matsuda, Naoki; Saiga, Yoshiko; Kobayashi, Yasunobu; Nakamura, Masakazu; and Satoh, Toshio, to Sunstar Kabushiki Kaisha. Composition for activating function of phagocytes. 4,686,206, 8-11-87, Cl. 514-27.000.

Katsuragi, Yasuhiro: *See*—

Hasegawa, Kenji; Sakano, Yasuo; Katsuragi, Yasuhiro; Aimoto, Kenji; and Sugihara, Kunio, 4,675,184, Cl. 424-85.000.

Katsurahira, Yuji: *See*—

Murakami, Azuma; Katsurahira, Yuji; and Taguchi, Yoshinori, 4,709,209, Cl. 324-207.000.

Katsurai, Junji; Monma, Masao; and Takaku, Tetsuo, to Konishiroku Photo Industry Co., Ltd. Thermal variable velocity printer system. 4,679,053, 7-7-87, Cl. 346-1.100.

Katsuta, Hiroo: *See*—

Suzuki, Kazunori; Katsuta, Hiroo; and Toriumi, Yuki, 4,637,850, Cl. 156-60.000.

Toriumi, Yuki; Suzuki, Kazunori; and Katsuta, Hiroo, 4,643,579, Cl. 356-401.000.

Katsuta, Hisao: *See*—

Morita, Tsuneharu; Ikeyama, Toshiharu; Iwaki, Osamu; and Katsuta, Hisao, 4,705,445, Cl. 414-280.000.

Katsutani, Kazuji; and Inaba, Shigeru, to Niles Parts Co., Ltd. Hinge type relay. 4,691,181, 9-1-87, Cl. 335-128.000.

Katsuya, Hiroo; Kato, Chiaki; and Fujii, Yoshiharu, to Sumitomo Electric Industries, Ltd. Release agent applicator for copying machine. 4,633,805, 1-6-87, Cl. 118-60.000.

Katsuyama, Harumi; Arai, Fuminori; Miyazako, Takushi; and Nagatomo, Shigeru, to Fuji Photo Film Co., Ltd. Multilayer analytical element. 4,671,937, 6-9-87, Cl. 422-56.000.

Katsuyama, Kazuo: *See*—

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Kikuchi, Shunichi; Matsunaga, Haruyuki; Katsumi, Hideo; and Katsuyama, Koji, 4,712,158, Cl. 361-385.000.

Katsuyama, Minoru: *See*—

Hamada, Kiyoshi; Watanabe, Masanori; Nonomura, Kinzo; Katsuyama, Minoru; and Hirano, Riyuma, 4,651,058, Cl. 315-98.000.

Katsuyama, Shigeru: *See*—

Kondo, Kenji; Katsuyama, Shigeru; Akahane, Shoji; and Tomioka, Kentaro, 4,678,436, Cl. 433-228.100.

Katsuyama, Yoshiaki: *See*—

Wada, Toshiaki; and Katsuyama, Yoshiaki, 4,659,606, Cl. 428-141.000.

Wada, Toshiaki; Katsuyama, Yoshiaki; and Nakaoka, Junichi, 4,690,846, Cl. 428-64.000.

- Katsuyama, Yutaka: *See*—
  - Sumida, Shin; Murata, Hisashi; and Katsuyama, Yutaka, 4,659,215, Cl. 356-73.100.
- Kattenberg, Hans R., to Cacaofabriek de Zaan B.V. Cocoa. 4,704,292, 11-3-87, Cl. 426-565.000.
- Katto, Hisao: *See*—
  - Okuyama, Kousuke; Komori, Kazuhiro; and Katto, Hisao, 4,652,897, Cl. 357-23.500.
- Katto, Masayuki; and Sugishima, Eichi, to Mitsubishi Denki Kabushiki Kaisha. Wave generation circuit for a pulse-width modulation inverter. 4,686,480, 8-11-87, Cl. 328-62.000.
- Katto, Masayuki: *See*—
  - Iwasaki, Masahiko; and Katto, Masayuki, 4,663,578, Cl. 318-762.000.
- Katto, Takayuki; Komatsu, Yasumasa; and Shuki, Zenya, to Kureha Kagaku Kogyo Kabushiki Kaisha. Thermoplastic resin composition. 4,636,553, 1-13-87, Cl. 525-67.000.
- Katto, Takayuki; Tada, Masahito; Kouyama, Toshitaka; and Iizuka, Yo, to Kureha Kagaku Kogyo Kabushiki Kaisha. Phenylene sulfide resin compositions. 4,659,789, 4-21-87, Cl. 525-537.000.
- Katto, Takayuki; and Ichikawa, Yukio, to Kureha Kagaku Kogyo Kabushiki Kaisha. Process for producing readily crystallizable arylenesulfide resin composition containing organic acid or anhydride. 4,699,975, 10-13-87, Cl. 528-486.000.
- Katto, Takayuki; Komatsu, Yasumasa; and Shuki, Zenya, to Kureha Kagaku Kogyo Kabushiki Kaisha. Thermoplastic resin composition. 4,701,495, 10-20-87, Cl. 525-75.000.
- Katto, Takayuki: *See*—
  - Iizuka, Yo; Iwasaki, Takao; Katto, Takayuki; and Shuki, Zenya, 4,645,826, Cl. 528-388.000.
- Katz, Alan H.; Demerson, Christopher A.; and Humber, Leslie G., to American Home Products Corporation. Substituted 1,3,4,9-tetrahydropyrano[3,4-B]indole-1-acetic acids. 4,670,462, 6-2-87, Cl. 514-411.000.
- Katz, Alan H.: *See*—
  - Taylor, Edward C.; Katz, Alan H.; Bull, Randy A.; Byers, Lance R.; and Brown, Richard A., 4,695,658, Cl. 568-763.000.
- Katz, Alan J.: *See*—
  - Thompson, Arthur H.; and Katz, Alan J., 4,648,261, Cl. 73-38.000.
- Katz, Carlos; Dima, Attila F.; and Eager, George S., Jr., to Cable Technology Laboratories, Inc. Premolded mechanically prestressed voltage stress control cones for high voltage cables and method of fabricating same. 4,681,985, 7-21-87, Cl. 174-73.00R.
- Katz, Gary P. Tamper-proof container. 4,682,701, 7-28-87, Cl. 215-230.000.
- Katz, Gene L., to National Controls, Inc. Digital electronic scale with stabilized display. 4,660,662, 4-28-87, Cl. 177-50.000.
- Katz, Harry R. Position locating device and method for interstitial radiotherapy. 4,642,096, 2-10-87, Cl. 604-116.000.
- Katz, Hart V.; and Kien, Gerald A., to International Acoustics Incorporated. Method and apparatus for evaluating of artificial heart valves. 4,712,565, 12-15-87, Cl. 128-715.000.
- Katz, Howard G.: *See*—
  - Yannich, Marie E.; and Katz, Howard G., 4,684,689, Cl. 524-371.000.
- Katz, Ira: *See*—
  - Wilson, Richard A.; Butler, Jerry F.; Withycombe, Donald; Mookherjee, Braja D.; Katz, Ira; and Schrankel, Kenneth R., 4,693,890, Cl. 424-78.000.
  - Wilson, Richard A.; Butler, Jerry F.; Withycombe, Donald; Mookherjee, Braja D.; Katz, Ira; and Schrankel, Kenneth R., 4,696,676, Cl. 44-7.500.
- Katz, Joel D.: *See*—
  - Kim, Jonathan J.; and Katz, Joel D., 4,649,002, Cl. 264-58.000.
  - Kim, Jonathan J.; and Katz, Joel D., 4,698,481, Cl. 219-121.0PY.
- Katz, Joseph. Mariner's dogleg course distance calculator. 4,689,476, 8-25-87, Cl. 235-88.00N.
- Katz, Laurence B.: *See*—
  - Rosenthale, Marvin E.; Shriver, David A.; and Katz, Laurence B., 4,707,495, Cl. 514-530.000.
- Katz, Lawrence H.: *See*—
  - Bachman, Brett L.; Bernstein, David H.; Bratt, Richard G.; Clancy, Gerald F.; Gavrin, Edward S.; Gruner, Ronald H.; Jones, Thomas M.; Katz, Lawrence H.; Mundie, Craig J.; Pilat, John F.; Richmond, Michael S.; Schleimer, Stephen I.; Wallach, Steven J.; and Wallach, Walter A., Jr., 4,656,579, Cl. 364-200.000.
- Katz, Marcella M. Flexible non-distortable handcraft sheet material and method of applying printed designs thereto. 4,640,529, 2-3-87, Cl. 281-5.000.
- Katz, Marcella M. Method of producing composite non-distortable needlepoint canvas. 4,668,325, 5-26-87, Cl. 156-322.000.
- Katz, Marcella M. Method of producing composite non-distortable needlework canvas materials. 4,704,172, 11-3-87, Cl. 156-73.200.
- Katz, Maurice; and Renard, Antoine, to Jeumont-Schneider Corporation. Elastic compensation chamber for hydraulic energy dissipator. 4,702,356, 10-27-87, Cl. 188-315.000.
- Katz, Maurice D. Anti-burglary device for automobile radios and cassettes. 4,678,874, 7-7-87, Cl. 200-43.120.
- Katz, Otto, to A. W. Faber-Castell GmbH & Co. Lead loading mechanical pencil. 4,659,242, 4-21-87, Cl. 401-85.000.
- Katz, Peter: *See*—
  - Dietrich, Albert; Katz, Peter; and Vincken, Josef, 4,674,075, Cl. 367-175.000.
- Katz, Philip; Brenman, Henry S.; Lowry, Louis D.; and Schwartz, Harold, to Thomas Jefferson University. Artificial larynx. 4,672,673, 6-9-87, Cl. 381-70.000.
- Katz, Philip: *See*—
  - Brenman, Henry S.; Katz, Philip; and Beatty, Graydon E., 4,637,405, Cl. 128-787.000.
  - Brenman, Henry S.; Katz, Philip; and Schwartz, Harold L., 4,663,102, Cl. 264-222.000.
- Katz, Robert: *See*—
  - Katz, Sidney; and Katz, Robert, 4,651,643, Cl. 101-375.000.
- Katz, Ronald A.; and Goldman, Robert N., to Light Signatures, Inc. Merchandise verification and information system. 4,651,150, 3-17-87, Cl. 340-825.340.
- Katz, Sidney; and Katz, Robert. Adaptors for use with printing cylinder mandrels. 4,651,643, 3-24-87, Cl. 101-375.000.
- Katz, Stanley A.: *See*—
  - Decker, Joseph A., Jr.; Fiore, Joseph F., Jr.; and Katz, Stanley A., 4,640,392, Cl. 190-108.000.
- Katz, William. Intravenous needle assembly. 4,690,675, 9-1-87, Cl. 604-177.000.
- Katz, Yoram, to Imperial Private Power. Electrical or thermal tracking cogeneration system utilizing open cycle-air-conditioning. 4,715,192, 12-29-87, Cl. 62-323.100.
- Katzarov, Hristo B.: *See*—
  - Popov, Entcho N.; Apostolov, Rumen K.; Georgiev, Georgi A.; Katzarov, Hristo B.; and Penkov, Julii S., 4,658,167, Cl. 310-156.000.
- Katzer, Johann: *See*—
  - Froelich, Hans; Hepperle, Willi; Katzer, Johann; and Stephany, Christian, 4,639,018, Cl. 285-184.000.
  - Hepperle, Willi; Katzer, Johann; Froelich, Hans; and Stephany, Christian, 4,671,311, Cl. 137-268.000.
  - Prestele, Erich; Schneider, Alfred; Hepperle, Willi; Katzer, Johann; Stephany, Christian; and Lopic, Franz, 4,673,307, Cl. 401-289.000.
- Katzman, Allison W.; Terzian, Rouben T.; and Breslow, Jeffrey D., to Marvin Glass & Associates. Method of making a permanent doll wig. 4,674,169, 6-23-87, Cl. 29-432.000.
- Katzman, James A.; Bartlett, Joel F.; Bixler, Richard M.; Davidow, William H.; Despotakis, John A.; Graziano, Peter J.; Green, Michael D.; Greig, David A.; Hayashi, Steven J.; Mackie, David R.; McEvoy, Dennis L.; Treybig, James G.; and Wierenga, Steven W., to Tandem Computers Incorporated. Power interlock system and method for use with multiprocessor systems. 4,639,864, 1-27-87, Cl. 364-200.000.
- Katzman, James A.; Bartlett, Joel F.; Bixler, Richard M.; Davidow, William H.; Despotakis, John A.; Graziano, Peter J.; Green, Michael D.; Greig, David A.; Hayashi, Steven J.; Mackie, David R.; McEvoy, Dennis L.; Treybig, James G.; and Wierenga, Steven W., to Tandem Computers Incorporated. Multiprocessor system. 4,672,535, 6-9-87, Cl. 364-200.000.
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- Katzmann, Fred L., to Ballantine Laboratories, Inc. Resistive sensing thermal device for current measurement. 4,695,793, 9-22-87, Cl. 324-106.000.
- Katzmann, Fred L.: *See*—
  - Harrison, Archie J., Jr.; Harper, Jerry; and Katzmann, Fred L., 4,659,910, Cl. 219-497.000.
- Katzmann, Harald; Senn, Werner; and Ammann, David, to Werkzeugmaschinenfabrik Oerlikon-Buhrle AG. Method of securing a flare composition sleeve in a blind borehole at the tail portion of a projectile body. 4,690,029, 9-1-87, Cl. 86-20.110.
- Katzmark, Peter C. Injection-molded enclosures. 4,688,696, 8-25-87, Cl. 220-352.000.
- Katzmarzik, Frank J. Gravitationally animated toy bird. 4,687,46 8-18-87, Cl. 446-316.000.
- Katzoka, Koichi, to Kabushiki Kaisha Ishida Koki Seisakusho. Dispersing supply device in automatic weighing apparatus. 4,702,394, 10-27-87, Cl. 222-77.000.
- Kau, Jee I.: *See*—
  - Davis, Thomas E.; Schmidt, Donald L.; Kau, Jee I.; Wessling, Ritchie A.; Whipple, Sharon S.; Fibiger, Richard F.; and Pickelman, Dale M., 4,704,324, Cl. 428-308.400.
- Kaubek, Fritz: *See*—
  - Maier-Laxhuber, Peter; and Kaubek, Fritz, 4,660,629, Cl. 165-104.120.
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- Kaucic, Edward M., to Graber Industries, Inc. Vertical venetian blind with inline drive. 4,657,060, 4-14-87, Cl. 160-168.00R.
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- Kauff, Helmut: *See*—
  - Cao, Chi-Thuan; Janetzke, Helmut; Cordes, Henning; and Kauff, Helmut, 4,677,560, Cl. 364-431.070.
  - Janetzke, Helmut; Kauff, Helmut; and Stocker, Herbert, 4,658,783, Cl. 123-339.000.
- Kauffman, James C.; and Thompson, Glenn F., to Covenant Manufacturing Co. Retractable safety shield. 4,635,699, 1-13-87, Cl. 160-211.000.
- Kauffman, Joel M.: *See*—
  - Fletcher, Aaron N.; and Kauffman, Joel M., 4,663,074, Cl. 252-301.170.

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Kauffman, William J.: *See—*
  Herr, Richard E., Jr.; Kauffman, William J.; and Landers, Cheryl W., 4,699,820, Cl. 428-142.000.

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Kaufhold, Wolfgang: *See—*
  Neupauer, Helmut; Kaufhold, Wolfgang; and Wild, Georg, 4,638,416, Cl. 363-35.000.

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Kaufman, Benjamin J.: *See—*
  Kapuscinski, Maria M.; Kaufman, Benjamin J.; and Liu, Christopher S., 4,715,975, Cl. 252-50.000.

Kaufman, Bruce A.: *See—*
  Tilghman, Stephen E.; Duncan, Richard L.; and Kaufman, Bruce A., 4,669,082, Cl. 371-21.000.

Kaufman, Christopher: *See—*
  Dowd, Paul; Kaufman, Christopher; and Abeles, Robert H., 4,714,777, Cl. 562-506.000.

Kaufman, Frank B.: *See—*
  Chow, Ming-Fea; Guthrie, William L.; and Kaufman, Frank B., 4,702,792, Cl. 156-628.000.

Kaufman, Glenn A.: *See—*
  Becker, Thomas P.; Grover, Donald D.; Stout, Christopher B.; Kaufman, Glenn A.; and Olson, Gene E., 4,643,030, Cl. 73-862.230.

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  Green, Timothy; Kaufman, Harry; and Jalovec, Charles, 4,660,737, Cl. 220-410.000.

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  Blake, Joseph W., III; and Kaufman, Jack W., 4,664,305, Cl. 227-19.000.
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  Fehrenkopf, Bruce C.; and Kaufman, Richard A., 4,698,315, Cl. 436-536.000.

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  Kaufman, Harold R., and Robinson, Raymond S., 4,684,848, Cl. 315-111.810.

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  Berry, Robert W.; Kaufman, Stanley; and Zwickel, Friedrich, 4,657,346, Cl. 350-320.000.

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  Mondini, Giancarlo; Hefti, Walter; and Kaufmann, Siegfried, 4,641,397, Cl. 19-258.000.

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  Stenzel, Gerhard; and Kaule, Wittich, 4,650,319, Cl. 356-51.000.
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  Halverson, Ross, 4,710,777, Cl. 343-840.000.

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  Moore, Gary L.; Neilson, Bruce H.; Kauphusman, James V.; and Sharrow, James S., 4,669,465, Cl. 128-303.100.

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  Burns, David C.; Kaurie, Charles E.; and Persang, Joseph C., 4,672,162, Cl. 219-69.00R.

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  Staude, Eckhard; and Kaus, Juergen, 4,636,061, Cl. 355-24.000.

Kaus, Malcolm J.: *See—*
  Etherton, Bradley P.; and Kaus, Malcolm J., 4,634,746, Cl. 526-124.000.

Kausch, Marvin L., to Cromemco, Inc. Computer graphics system with low memory enhancement circuit. 4,677,574, 6-30-87, Cl. 364-521.000.

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Kauss, Wolfgang; Mucheyer, Norbert; and Wittich, Kurt, to Mannesmann Rexroth GmbH. Vehicle with hinged attachment implement. 4,667,744, 5-26-87, Cl. 172-2.000.

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Giese, Peter; Holzmann, Rainer; Schwöchert, Hans-Joachim; and Thomas, Alfred, 4,699,585, Cl. 425-522.000.

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Fickes, Edward L.; and Kautz, Jon F., 4,670,978, Cl. 29-741.000.

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Hargarten, Werner; and Kautz, Rudolf, 4,696,709, Cl. 156-79.000.

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Horvath, Zoltan L.; Kavanagh, Gary A.; Manning, Steven F.; Pyszel, Ronald J.; Rogers, Lloyd W.; and Schlaps, Edgar H., 4,707,027, Cl. 297-284.000.

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Moore, Ronald D.; Kavanaugh, James D.; Phelps, Richard A.; and Howard, Michael C., 4,686,741, Cl. 16-112.000.

Kavanaugh, Mark A.: *See*—

Hoffman, Robert K.; Kavanaugh, Mark A.; and Franson, David C., 4,640,309, Cl. 137-596.180.

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Goodridge, Paul A.; Bilen, Roger J.; Kaveh, Farrokh; and Lin, David C. K., 4,670,034, Cl. 65-4.400.

Kavehrad, Mohsen; and Salz, Jack, to American Telephone and Telegraph Company, AT&T Bell Laboratories. Combined cross polarization interference cancellation and intersymbol interference equalization for terrestrial digital radio systems. 4,644,562, 2-17-87, Cl. 375-14.000.

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Harpell, Gary A.; Palley, Igor; Kavesh, Sheldon; and Prevorsek, Dusan C., 4,650,710, Cl. 428-263.000.

Kwon, Young D.; Kavesh, Sheldon; and Prevorsek, Dusan C., 4,713,290, Cl. 428-364.000.

Kavilco Corporation: *See*—

Park, Kyong, 4,646,557, Cl. 73-9.000.

Kavka, Frank, to Mallinckrodt, Inc. Preparation of 14-hydroxy-N-ethoxy-carbonyl-norcodeinone. 4,639,520, 1-27-87, Cl. 546-45.000.

Kavli, Fred; and Park, Kyong, to Kavlico Corporation. Dual diaphragm differential pressure transducer. 4,680,971, 7-21-87, Cl. 73-718.000.

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Kavli, Fred; and Park, Kyong, 4,680,971, Cl. 73-718.000.

Kavoussi, James P.; and Hartford, Louise D. Scent clock alarm device. 4,645,353, 2-24-87, Cl. 368-12.000.

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Kawabata, Kazunobu: *See*—

Tanaka, Haruto; and Kawabata, Kazunobu, 4,659,104, Cl. 280-707.000.

Kawabata, Kohji: *See*—

Takaya, Takao; Takasugi, Hisashi; Masugi, Takashi; Yamanada, Hideaki; and Kawabata, Kohji, 4,705,851, Cl. 540-215.000.

Kawabata, Osamu, to Fuji Electric Company, Ltd. Noise removal circuit for use in a partial discharge measuring device of a high voltage apparatus. 4,710,705, 12-1-87, Cl. 324-102.000.

Kawabata, Susumu: *See*—

Hasegawa, Junzo; Kawabata, Susumu; and Mimura, Nobuharu, 4,657,413, Cl. 384-524.000.

Hasegawa, Junzo; Kawabata, Susumu; and Mimura, Nobuharu, 4,681,492, Cl. 409-231.000.

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Kawabata, Takao, to Mitsubishi Denki Kabushiki Kaisha. Apparatus for controlling the parallel operation of an A-C output converter for a commercial power source including a circuit for simulating output current for test purposes. 4,703,193, 10-27-87, Cl. 307-66.000.

Kawabata, Takao: *See*—

Mizohata, Fumio; and Kawabata, Takao, 4,710,696, Cl. 323-223.000.

Kawabata, Takashi, to Canon Kabushiki Kaisha. Automatic focusing camera. 4,637,705, 1-20-87, Cl. 354-403.000.

Kawabata, Takashi; Sato, Yuichi; Tsunekawa, Tokuichi; and Matsumura, Susumu, to Canon Kabushiki Kaisha. Photo-electric converting device. 4,681,432, 7-21-87, Cl. 356-4.000.

Kawabata, Takashi: *See*—

Ohmura, Hiroshi; Tsunekawa, Tokuichi; Kiyohara, Shyuichi; and Kawabata, Takashi, 4,682,873, Cl. 354-478.000.

Sakai, Shinji; Kawabata, Takashi; and Harada, Yoshimi, 4,639,108, Cl. 354-289.100.

Sakai, Shinji; and Kawabata, Takashi, 4,681,419, Cl. 354-402.000.

Sakai, Shinji; and Kawabata, Takashi, 4,687,915, Cl. 250-201.000.

Sakai, Shinji; and Kawabata, Takashi, 4,688,914, Cl. 354-173.110.

Sato, Yuichi; Tsunekawa, Tokuichi; and Kawabata, Takashi, 4,678,323, Cl. 365-4.000.

Sorimachi, Kanehiro; and Kawabata, Takashi, 4,660,969, Cl. 356-1.000.

Tsunekawa, Tokuichi; Sato, Yuichi; Kawabata, Takashi; and Matsumura, Susumu, 4,642,451, Cl. 250-201.000.

Tsunekawa, Tokuichi; Kawabata, Takashi; Sato, Yuichi; and Matsumura, Susumu, 4,644,149, Cl. 250-214.00A.

Tsunekawa, Tokuichi; Hosoe, Kazuya; Kinoshita, Takao; Kawabata, Takashi; Sakai, Shinji; and Taguchi, Tatsuya, 4,647,174, Cl. 354-402.000.

Tsunekawa, Tokuichi; Sato, Yuichi; and Kawabata, Takashi, 4,672,189, Cl. 250-201.000.

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Kawabata, Toshiharu; Koike, Susumu; Matsuda, Toshio; and Iwasa, Hitoo, to Matsushita Electric Industrial Co., Ltd. Manufacturing green light emitting diodes. 4,671,829, 6-9-87, Cl. 148-171.000.

Kawabata, Toshio; and Tomono, Kunisaburo, to Murata Manufacturing Co., Ltd. Multi-layer chip coil. 4,689,594, 8-25-87, Cl. 336-200.000.

Kawabata, Yasuhiro, to Aisin Seiki Kabushiki Kaisha. Turbocharger control system. 4,642,991, 2-17-87, Cl. 60-602.000.

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Kawabe, Manabu: *See*—

Fukasawa, Atsushi; Sato, Takuro; Akiyama, Haruhiko; and Kawabe, Manabu, 4,701,923, Cl. 371-41.000.

Kawabe, Ryoichi; Iwasaki, Tetsuo; Kozuru, Hiroshi; Yoda, Masashi; Matsunaga, Masakazu; Takamori, Takesi; and Nakasima, Matao, to F.M. Valve Manufacturing Co., Ltd. Toilet-flushing control apparatus. 4,707,867, 11-24-87, Cl. 4-313.000.

Kawabe, Tadashi; and Kobune, Masafumi, to Tateho Kagaku Kogyo Kabushiki Kaisha. Electrically insulating filler for sheathed heaters. 4,681,862, 7-21-87, Cl. 501-108.000.

Kawabe, Taketoshi; and Ito, Ken, to Nissan Motor Co., Ltd. Steering control system for wheeled vehicle. 4,706,979, 11-17-87, Cl. 280-91.000.

Kawabe, Taketoshi: *See*—

Ito, Ken; and Kawabe, Taketoshi, 4,679,808, Cl. 280-91.000.

Kawabe, Taketosi; and Ito, Ken, to Nissan Motor Co., Ltd. Vehicle steering control system using desired vehicle model. 4,706,771, 11-17-87, Cl. 180-142.000.

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Ito, Ken; Inoue, Naohiko; and Kawabe, Taketosi, 4,679,809, Cl. 280-91.000.

Kawabe, Ushio: *See*—

Harada, Yutaka; Kawabe, Ushio; Kotera, Nobuo; and Asano, Atsushi, 4,672,244, Cl. 307-476.000.

- Kawabuchi, Masami, to Matsushita Electric Industrial Co., Ltd. Ultrasonic probe. 4,677,853, 7-7-87, Cl. 73-644.000.
- Kawabuchi, Masami; Matsuo, Koji; Muramatsu, Fumio; Fukumoto, Akira; and Saito, Koetsu, to Matsushita Electric Industrial Co., Ltd. Ultrasonic transducer assembly for medical diagnostic examinations. 4,699,150, 10-13-87, Cl. 128-660.000.
- Kawachi, Shoji; Tomoda, Masayasu; Ueta, Yutaka; and Oka, Masahiko, to Daikin Industries, Ltd. Novel impregnated material of a copolymer of tetrafluoroethylene and perfluoroalkyl vinyl ether. 4,670,328, 6-2-87, Cl. 428-260.000.
- Kawachi, Shoji: *See*—
  - Oka, Masahiko; Ueta, Yutaka; Kano, Hideo; Tomoda, Masayasu; and Kawachi, Shoji, 4,696,989, Cl. 526-254.000.
- Kawachi, Yasunori: *See*—
  - Murashige, Yoshio; Yanagase, Akira; Kawachi, Yasunori; and Soga, Junko, 4,639,339, Cl. 260-513.600.
  - Murashige, Yoshio; Yanagase, Akira; Kawachi, Yasunori; and Soga, Junko, 4,673,688, Cl. 514-554.000.
  - Sasaki, Isao; Yanagase, Akira; Kawachi, Yasunori; Mayuzumi, Tetsuya; Oba, Toshio; and Okada, Fumio, 4,690,986, Cl. 525-479.000.
- Kawada Co., Ltd.: *See*—
  - Keiji, Iwaouchi, 4,643,691, Cl. 446-97.000.
- Kawada, Haruki: *See*—
  - Aonuma, Mitsuyoshi; Watanabe, Hiroyuki; Kawada, Haruki; Noguchi, Kohkichi; Ueda, Akio; Akita, Shuichi; Ohyama, Tetsuo; and Kase, Toshio, 4,647,625, Cl. 528-232.000.
  - Eguchi, Ken; Kawada, Haruki; and Nishimura, Yukuo, 4,672,265, Cl. 313-504.000.
  - Kitahara, Shizuo; Hirokawa, Yoshitsugu; Kawada, Haruki; Fuji, Toshihiro; Sugi, Nagatoshi; Hasegawa, Hiroaki; and Yoshioka, Akira, 4,654,435, Cl. 560-61.000.
  - Saito, Kenji; Eguchi, Ken; Kawada, Haruki; Tomida, Yoshinori; Nishimura, Yukuo; and Nakagiri, Takashi, 4,682,897, Cl. 374-45.000.
- Kawada, Hideaki, to Sony Corporation. Tape cassette with lid locking and releasing mechanism. 4,698,713, 10-6-87, Cl. 360-132.000.
- Kawada, Hideaki; Ike, Kazuo; Nemoto, Tsuneo; and Omori, Kiyoshi, to Sony Corporation. Magnetic tape cassette with reel-lock mechanism. 4,703,384, 10-27-87, Cl. 360-132.000.
- Kawada, Hirohito: *See*—
  - Takahashi, Toshihiko; and Kawada, Hirohito, 4,688,116, Cl. 360-72.200.
- Kawada, Hiroshi: *See*—
  - Kurosu, Yasuhisa; Kawada, Hiroshi; Kanasugi, Haruki; and Hosokawa, Akio, 4,696,947, Cl. 514-478.000.
- Kawada, Kazuhiro: *See*—
  - Fukushima, Koji; Seto, Yoshiko; Kawada, Kazuhiro; Toi, Koji; and Kumashiro, Izumi, 4,714,713, Cl. 514-563.000.
- Kawada, Kazushige: *See*—
  - Teraji, Tsutomu; Kawada, Kazushige; Takeuchi, Toru; Sugita, Shinichi; Adachi, Toshikazu; and Yagi, Hideo, 4,650,522, Cl. 106-314.000.
- Kawada Kogyo K.K.: *See*—
  - Kawada, Tadaki; and Maeda, Kenichi, 4,665,578, Cl. 14-17.000.
- Kawada, Michihiro: *See*—
  - Matsuno, Yutaka; Hatanaka, Yasunori; Shimizu, Hirokazu; Ishigaki, Masahiro; Harada, Hiroshi; Kawada, Michihiro; and Wakita, Yasukuni, 4,673,188, Cl. 277-212.0FB.
- Kawada, Michitaka, to NEC Corporation. Information recording and reading apparatus having recording error checking circuit. 4,672,483, 6-9-87, Cl. 360-51.000.
- Kawada, Mitsuru; Matsumoto, Kiyoharu; and Tsurushima, Masaaki, to Takeda Chemical Industries, Ltd. Production of cytosine nucleosides. 4,689,404, 8-25-87, Cl. 536-23.000.
- Kawada, Osamu: *See*—
  - Kakii, Toshiaki; Matsuno, Koichiro; Kawada, Osamu; Ito, Ryozo; and Nakamura, Eiji, 4,682,864, Cl. 350-511.000.
- Kawada, Shigeki; Amemiya, Yoichi; Sogabe, Masatoyo; and Iwamatsu, Noboru, to Fanuc Ltd. Rotor for a synchronous motor. 4,661,736, 4-28-87, Cl. 310-156.000.
- Kawada, Shigeki; Amemiya, Yoichi; Sogabe, Masatoyo; and Sugahara, Katsuya, to Fanuc Ltd. Shaft for an electric motor with DC brake. 4,663,350, 5-5-87, Cl. 310-93.000.
- Kawada, Shigeki; Amemiya, Yoichi; Sogabe, Masatoyo; and Iwamatsu, Noboru, to Fanuc Ltd. Synchronous machine. 4,700,097, 10-13-87, Cl. 310-162.000.
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- Kawada, Shigeo: *See*—
  - Miyamaru, Yukio; Kawada, Shigeo; Hatanaka, Kaoru; and Shibata, Yasuo, 4,644,318, Cl. 340-73.000.
  - Miyamaru, Yukio; Hatanaka, Kaoru; Kawada, Shigeo; and Shibata, Yasuo, 4,660,020, Cl. 340-134.000.
  - Yoshino, Shigeru; Ueki, Junzo; Shibuya, Ichiro; Kawada, Shigeo; Iino, Akira; Tanzaki, Hiromasa; and Murano, Kazuo, 4,670,979, Cl. 29-838.000.
- Kawada, Shin-Ichi: *See*—
  - Hojo, Takeshi; Kawada, Shin-Ichi; Fukano, Michio; Yamamoto, Kanshi; Okamura, Youji; Sato, Kazuteru; Saito, Masahiko; and Hane, Fuyuki, 4,694,696, Cl. 73-497.000.
- Kawada, Shinichi: *See*—
  - Fukunaga, Yasushi; Kuzunuki, Soshiro; Shojima, Hiroshi; Yokoyama, Takanori; Koga, Kazuyoshi; Hirasawa, Kotaro; and Kawada, Shinichi, 4,641,354, Cl. 382-13.000.
  - Hojo, Takeshi; and Kawada, Shinichi, 4,669,323, Cl. 74-5.440.
- Kawada, Shuji: *See*—
  - Yanagi, Mikio; Kawada, Shuji; Futatsuya, Fumio; and Kobayashi, Kenji, 4,666,507, Cl. 71-92.000.
- Kawada, Susumu: *See*—
  - Tamura, Kinichi; Kawada, Susumu; Sekine, Yoshitada; Abe, Kazuyoshi; Ishikawa, Ryosuke; and Yokota, Fumiki, 4,691,905, Cl. 269-45.000.
- Kawada, Tadaki; and Maeda, Kenichi, to Kawada Kogyo K.K. Streamlined box girder type suspension bridge. 4,665,578, 5-19-87, Cl. 14-17.000.
- Kawada, Takeshi: *See*—
  - Kanda, Hisashi; Nario, Susumu; Morifuji, Kazuhiko; Kawada, Yuzo; Sakai, Takashi; Kawada, Takeshi; Shimada, Katsura; and Tsuneda, Mitsuo, 4,670,953, Cl. 28-185.000.
- Kawada, Toshiaki: *See*—
  - Fukamachi, Toshio; Matsuda, Kazuto; Noma, Kouichi; Kawada, Toshiaki; Sakurai, Toshio; and Osawa, Takeshi, 4,643,351, Cl. 236-44.00E.
- Kawada, Toyoshi: *See*—
  - Yamaguchi, Hisashi; Takahara, Kazuhiro; Gondoh, Hiroyuki; Kawada, Toyoshi; and Andoh, Shizuo, 4,636,789, Cl. 340-805.000.
- Kawada, Tsutomu; and Nakamura, Yasuo, to Nakamura, Yasuo. Suture needle and its manufacturing processes. 4,672,734, 6-16-87, Cl. 29-517.000.
- Kawada, Yuzo: *See*—
  - Kanda, Hisashi; Nario, Susumu; Morifuji, Kazuhiko; Kawada, Yuzo; Sakai, Takashi; Kawada, Takeshi; Shimada, Katsura; and Tsuneda, Mitsuo, 4,670,953, Cl. 28-185.000.
- Kawade, Hideji; Takahashi, Hideaki; Sato, Yoshiyuki; and Urayama, Yuji, to Tamura Electric Works, Ltd.; and Victor Company of Japan, Ltd. Telephone answering apparatus having two integrators of different time constants. 4,640,990, 2-3-87, Cl. 379-77.000.
- Kawade, Hiroyuki: *See*—
  - Hirotsuka, Motohiko; Harada, Tetsuro; Ohtsubo, Nobuhiro; Kawade, Hiroyuki; Hayakawa, Yoshiyuki; and Taniguchi, Hitoshi, 4,702,927, Cl. 426-467.000.
- Kawade, Hisaaki: *See*—
  - Ishiwatari, Takahiko; Kishi, Hiroyoshi; Kawade, Hisaaki; Matsushima, Masaaki; Sawamura, Mitsuharu; and Honguu, Kazuoki, 4,658,388, Cl. 369-13.000.
- Kawade, Tateo, to Honda Giken Kogyo Kabushiki Kaisha. Height adjusting device for vehicle seat. 4,648,575, 3-10-87, Cl. 248-371.000.
- Kawado, Yasuhumi: *See*—
  - Morishita, Tuyoshi; Kawado, Yasuhumi; Osaki, Sigemi; and Sakai, Noriyuki, 4,646,811, Cl. 164-103.000.
  - Osaki, Sigemi; Yousina, Norio; Morishita, Tsuyoshi; and Kawado, Yasuhumi, 4,678,633, Cl. 419-8.000.
- Kawagishi, Mamoru: *See*—
  - Eto, Masayuki; Izumi, Kazuyoshi; Kobayashi, Fuyuki; Kawagishi, Mamoru; and Oosawa, Masahiro, 4,639,721, Cl. 340-747.000.
- Kawagishi, Toshio; and Nakazyo, Kiyoshi, to Fuji Photo Film Co., Ltd. Silver halide color photographic materials containing magenta coupler and high boiling point organic solvent. 4,639,413, 1-27-87, Cl. 430-546.000.
- Kawagishi, Toshio; and Nakazyo, Kiyoshi, to Fuji Photo Film Co., Ltd. Silver halide color photographic material. 4,659,652, 4-21-87, Cl. 430-558.000.
- Kawagishi, Toshio: *See*—
  - Sato, Tadahisa; Kawagishi, Toshio; and Furutachi, Nobuo, 4,705,863, Cl. 548-262.000.
- Kawagishi, Yoji; Narita, Shinichi; Kiriu, Takashi; and Uemoto, Kenji, to Orient Chemical Industries, Ltd. Toner for developing electrostatic latent images. 4,656,112, 4-7-87, Cl. 430-110.000.
- Kawagishi, Yoji: *See*—
  - Fukumoto, Hiroshi; Tanaka, Katsuhiko; and Kawagishi, Yoji, 4,673,631, Cl. 430-110.000.
  - Ohshima, Tetsuya; Senshu, Hisashi; Matsuyama, Takeshi; Kawagishi, Yoji; Andoh, Takuo; and Kiryu, Takashi, 4,656,113, Cl. 430-137.000.
- Kawagoe, Nobukazu: *See*—
  - Yuasa, Yoshio; Yasumoto, Hidetoshi; Naruse, Kazuhiko; Kawagoe, Nobukazu; and Inaba, Masahito, 4,704,025, Cl. 355-38.000.
- Kawagoshi, Makoto: *See*—
  - Nakazawa, Hayashi; Nakao, Shouichi; Saito, Cyuichi; and Kawagoshi, Makoto, 4,674,619, Cl. 198-331.000.
- Kawaguchi, Akihisa: *See*—
  - Adachi, Toshio; Aoyagi, Toru; Kawaguchi, Akihisa; and Yamanaka, Shigeki, 4,706,419, Cl. 52-65.000.
- Kawaguchi, Akiko: *See*—
  - Takasuka, Yutaka; Mohri, Kunihiko; and Kawaguchi, Akiko, 4,648,908, Cl. 106-308.00F.
  - Takasuka, Yutaka; Mohri, Kunihiko; and Kawaguchi, Akiko, 4,710,375, Cl. 424-69.000.
- Kawaguchi, Fumiaki; Shimazu, Toshikazu; and Takahashi, Kazuhisa, to Canon Kabushiki Kaisha. Adjusting apparatus for laser scanning system with acousto-optical element. 4,712,117, 12-8-87, Cl. 346-108.000.
- Kawaguchi, Hiroshi: *See*—
  - Konishi, Masataka; Saitoh, Kyoichiro; Ohkuma, Hiroaki; and Kawaguchi, Hiroshi, 4,675,187, Cl. 424-117.000.
  - Konishi, Masataka; Saitoh, Kyoichiro; Ohkuma, Hiroaki; and Kawaguchi, Hiroshi, 4,708,872, Cl. 424-115.000.

Kawaguchi, Hiroyuki: *See*—

Minamitani, Kunitomo; Izuo, Masahiro; Nakao, Yuji; Nishikawa, Toshihide; and Kawaguchi, Hiroyuki, 4,703,735, Cl. 123-489.000.

Kawaguchi, Hisao: *See*—

Takamatsu, Toshiaki; Kuwagaki, Hiroshi; Minezaki, Shigehiro; Yamamoto, Kunihiko; Nakatani, Hiroshi; and Kawaguchi, Hisao, 4,690,510, Cl. 350-334.000.

Kawaguchi, Ikumi: *See*—

Kida, Yasuji; Miura, Kaoru; and Kawaguchi, Ikumi, 4,647,639, Cl. 526-293.000.

Kawaguchi, Katsuhiko, to Tokyo Electric Co., Ltd. Paper loading device of printer. 4,693,621, 9-15-87, Cl. 400-636.100.

Kawaguchi, Katsuji: *See*—

Yamanaka, Kazuo; Nagano, Hiroo; Minami, Takao; Okada, Yaautaka; Inoue, Mamoru; Susukida, Hiroshi; Onimura, Kichiro; Yonezawa, Toshio; Sasaguri, Nobuya; Kawaguchi, Katsuji; and Kusakabe, Takaya, 4,714,501, Cl. 148-13.000.

Yonezawa, Toshio; Sasaguri, Nobuya; Onimura, Kichiro; Susukida, Hiroshi; Kawaguchi, Katsuji; Nagano, Hiroo; Minami, Takao; Yamanaka, Kazuo; Okada, Yasutaka; and Inoue, Mamoru, 4,710,237, Cl. 148-13.000.

Kawaguchi, Keizo; and Ando, Takafusa, to Pilot Ink Co., Ltd. Ink for marking pen. 4,664,711, 5-12-87, Cl. 106-23.000.

Kawaguchi, Kichitaro: *See*—

Nakamura, Usao; Takao, Makoto; Ueno, Etsuko; and Kawaguchi, Kichitaro, 4,636,471, Cl. 435-280.000.

Kawaguchi, Kiyoshi, to Watanabe, Hiroaki; and Fuji Kagakushi Kogyo Co., Ltd. Spool for correction tape assembly. 4,651,943, 3-24-87, Cl. 242-68.300.

Kawaguchi, Kojiro: *See*—

Higuchi, Toshiro; Kamei, Shigeki; and Kawaguchi, Kojiro, 4,644,870, Cl. 104-292.000.

Kawaguchi, Masao: *See*—

Nakano, Jiro; Ishibashi, Takao; Akatsuka, Takao; and Kawaguchi, Masao, 4,694,809, Cl. 123-489.000.

Kawaguchi, Masashi; and Yasumune, Masaru, to Kabushiki Kaisha Furukawa Seisakusho. Automatic packaging apparatus. 4,640,081, 2-3-87, Cl. 53-510.000.

Kawaguchi, Masato: *See*—

Okuda, Shuji; Shimomura, Hideo; Honda, Kusuo; Kawaguchi, Masato; Kuno, Yasuo; Kumagai, Takenori; and Kato, Nobuo, 4,697,397, Cl. 52-223.00R.

Kawaguchi, Mitsuru, to Kotobuki Engineering & Manufacturing Co., Ltd. Sand producing method and apparatus. 4,667,887, 5-26-87, Cl. 241-24.000.

Kawaguchi, Nobuhisa: *See*—

Onohara, Masayuki; Kawai, Kenji; Shibata, Masaru; Igarashi, Akira; and Kawaguchi, Nobuhisa, 4,686,124, Cl. 428-35.000.

Kawaguchi, Seiji. Automatic soldering device. 4,678,886, 7-7-87, Cl. 219-85.00R.

Kawaguchi, Shinji: *See*—

Fukasawa, Atsushi; Hosoda, Kenichiro; Miyamoto, Ryoichi; Ando, Hiromi; and Kawaguchi, Shinji, 4,660,163, Cl. 364-724.000.

Kawaguchi, Susumu; Hirahara, Takuho; Nakane, Kazuhiro; and Ueda, Sei, to Mitsubishi Denki Kabushiki Kaisha. Rotary compressor. 4,636,152, 1-13-87, Cl. 418-54.000.

Kawaguchi, Susumu; Hirahara, Takuho; Nakane, Kazuhiro; and Ueda, Sei, to Mitsubishi Denki Kabushiki Kaisha. Rotary compressor. 4,676,726, 6-30-87, Cl. 418-54.000.

Kawaguchi, Susumu; Hirahara, Takuho; Nakane, Kazuhiro; and Ueda, Sei, to Mitsubishi Denki Kabushiki Kaisha. Rotary compressor. 4,704,076, 11-3-87, Cl. 418-91.000.

Kawaguchi, Takao; Adachi, Hideaki; Setsune, Kentaro; Ohji, Kenzo; and Wasa, Kiyotaka, to Matsushita Electric Industrial Co., Ltd. Optical switch. 4,715,680, 12-29-87, Cl. 350-96.340.

Kawaguchi, Takeo; and Sato, Takashi, to Mitsubishi Denki Kabushiki Kaisha. Superconducting magnet with shielding apparatus. 4,651,117, 3-17-87, Cl. 335-216.000.

Kawaguchi, Takeo, to Mitsubishi Denki Kabushiki Kaisha. Superconducting magnet. 4,675,636, 6-23-87, Cl. 335-216.000.

Kawaguchi, Takeshi; Suzuki, Tsuguya; and Shibata, Katsuhiro, to Honda Giken Kogyo Kabushiki Kaisha. Disc brake for motorcycles. 4,641,731, 2-10-87, Cl. 188-218.0XL.

Kawaguchi, Takeshi; and Kawano, Akio, to Honda Giken Kogyo Kabushiki Kaisha. Suspension system for motorcycles. 4,712,638, 12-15-87, Cl. 180-219.000.

Kawaguchi, Takeshi: *See*—

Hayashi, Tsutomu; Kawaguchi, Takeshi; and Tsuchida, Tetsuo, 4,660,683, Cl. 188-18.00A.

Hayashi, Tsutomu; Kawaguchi, Takeshi; and Tsuchida, Tetsuo, 4,673,221, Cl. 303-6.00R.

Hayashi, Tsutomu; Kawaguchi, Takeshi; and Tsuchida, Tetsuo, 4,694,938, Cl. 188-181.00A.

Hayashi, Tsutomu; Kawaguchi, Takeshi; and Tsuchida, Tetsuo, 4,697,825, Cl. 280-703.000.

Hayashi, Tsutomu; Kawaguchi, Takeshi; and Tsuchida, Tetsuo, 4,702,339, Cl. 180-219.000.

Irimajiri, Shoichiro; and Kawaguchi, Takeshi, 4,703,824, Cl. 180-215.000.

Shinozaki, Takashi; and Kawaguchi, Takeshi, 4,699,234, Cl. 180-233.000.

Shinozaki, Takashi; and Kawaguchi, Takeshi, 4,714,126, Cl. 180-233.000.

Tsuchida, Tetsuo; Kawaguchi, Takeshi; Hayashi, Tsutomu; and Yamanoi, Yoshinori, 4,664,233, Cl. 188-181.00A.

Kawaguchi, Tomohiro, to Fujitsu Limited. Time division exchange for carrying out a loop-back test. 4,688,208, 8-18-87, Cl. 370-15.000.

Kawaguchi, Toshiyuki; Katsukawa, Hiroyuki; Nakanishi, Kazumi; and Tanaka, Naoki, to NGK Insulators, Ltd. Work helmet having transmitter-receiver for light signal. 4,648,131, 3-3-87, Cl. 455-606.000.

Kawaguchi, Toshiyuki; Suzuki, Hideki; and Usuda, Tsuneo, to Shin-Etsu Polymer Co., Ltd. Anisotropically electroconductive adhesives. 4,701,279, 10-20-87, Cl. 252-511.000.

Kawaguchi, Toshiyuki: *See*—

Yokoi, Shigeo; Isozaki, Takashi; Yamamoto, Ryuta; and Kawaguchi, Toshiyuki, 4,709,330, Cl. 364-400.000.

Kawaguchi, Yasushi: *See*—

Arai, Kazuo; Nishi, Shinichi; Satoh, Taxey; Kawaguchi, Yasushi; and Mine, Kiyomitsu, 4,672,395, Cl. 346-135.100.

Mine, Kiyomitsu; Kobayashi, Yayoi; Kawaguchi, Yasushi; and Inokuma, Hiroyuki, 4,698,280, Cl. 428-425.900.

Kawaguchi, Yoshifumi, to Nippon Thompson Co., Ltd. Roller bearing for endless linear motion. 4,692,036, 9-8-87, Cl. 384-44.000.

Kawaguchi, Yukio; and Yamaguchi, Masayasu, to TDK Corporation. Magnetic head slider material. 4,650,774, 3-17-87, Cl. 501-87.000.

Kawaguchi, Yutaka: *See*—

Kasai, Shin; Waketa, Hideharu; Kato, Keiichi; and Kawaguchi, Yutaka, 4,707,565, Cl. 174-68.500.

Kawahara, Atsushi; and Okita, Masaya, to Nippon Kogaku K.K. Photographing and recording method and apparatus for electronic still picture cameras. 4,692,815, 9-8-87, Cl. 358-335.000.

Kawahara, Atsushi; and Takatsu, Norihiko, to Nippon Kogaku K.K. Solid-state area imaging device having interline transfer CCD means. 4,696,021, 9-22-87, Cl. 377-58.000.

Kawahara, Atsushi: *See*—

Isogai, Masaki; and Kawahara, Atsushi, 4,639,787, Cl. 358-214.00

Motoori, Ryuzo; Kimura, Makoto; Isogai, Masaki; Sato, Akimasa; and Kawahara, Atsushi, 4,651,226, Cl. 358-293.000.

Kawahara, Eiichiro: *See*—

Furumoto, Mitsumasa; Yamaguchi, Kouji; Kawahara, Eiichiro; and Ikejiri, Kenichi, 4,646,520, Cl. 60-469.000.

Yamaguchi, Kouji; Kawahara, Eiichiro; and Yamamoto, Noboru, 4,637,293, Cl. 91-507.000.

Kawahara, Haruyuki; Takeda, Shoji; Oshima, Hiroshi; Tomioka, Kentaro; Akahane, Shoji; Yoshii, Eiichi; and Hirota, Kazuo, to G-C Dental Industrial Corp., and Kawahara, Haruyuki. Dental cement compositions. 4,647,600, 3-3-87, Cl. 523-116.000.

Kawahara, Haruyuki; Takeda, Shoji; Oshima, Hiroshi; Tomioka, Kentaro; Akahane, Shoji; Yoshii, Eiichi; and Hirota, Kazuo, to G-C Dental Industrial Corp., and Kawahara, Haruyuki. Dental aluminate cement compositions. 4,652,593, 3-24-87, Cl. 523-116.000.

Kawahara, Haruyuki; and Takeda, Shoji, to Kawahara, Haruyuki. Base material composition for dental treatment. 4,659,080, 8-25-87, Cl. 106-35.000.

Kawahara, Hideo: *See*—

Nagayama, Hirotsugu; Honda, Hisao; and Kawahara, Hideo, 4,693,916, Cl. 427-397.700.

Kawahara, Masahiro, to Kawasaki Jukogyo Kabushiki Kaisha. Deck structure of watercraft. 4,703,710, 11-3-87, Cl. 114-364.000.

Kawahara, Masao: *See*—

Iwabuchi, Takeshi; Kawahara, Masao; Kamiyama, Sakae; and Sato, Terumi, 4,657,996, Cl. 526-127.000.

Kawahara, Masaru, to Express Test Corporation. Humidity testing apparatus. 4,667,522, 5-26-87, Cl. 73-865.600.

Kawahara, Nobuaki: *See*—

Hoshizaki, Hiroki; Kawahara, Nobuaki; Suzuki, Hirofumi; and Oyobe, Kazuo, 4,711,990, Cl. 219-552.000.

Kawahara, Shuichi: *See*—

Hayashi, Yasuyuki; Sadaka, Naoyuki; Murata, Shigeru; and Kawahara, Shuichi, 4,667,941, Cl. 267-64.160.

Kawahara, Toshinari: *See*—

Toshiyasu, Masayuki; and Kawahara, Toshinari, 4,634,930, Cl. 315-8.000.

Toshiyasu, Masayuki; and Kawahara, Toshinari, 4,677,344, Cl. 315-85.000.

Kawahara, Yoshihiro: *See*—

Katsuragi, Koji; Ozaki, Hirofumi; Kawahara, Yoshihiro; Matsumoto, Hideki; Tomoe, Tetsuro; and Kobayashi, Kazuhiro, 4,687,357, Cl. 400-208.000.

Kawahara, Yukito, to Kabushiki Kaisha Daini Seikosha. Active matrix-addressed liquid-crystal display device. 4,680,580, 7-14-87, Cl. 340-784.000.

Kawaharazaki, Takashi: *See*—

Asagiri, Katsuki; and Kawaharazaki, Takashi, 4,664,334, Cl. 242-107.000.

Nishimura, Yuji; and Kawaharazaki, Takashi, 4,676,444, Cl. 242-54.00R.

Tamura, Keiichi; Nishimura, Yuji; and Kawaharazaki, Takashi, 4,681,347, Cl. 280-804.000.

Kawahigashi, Nobuo; Hashida, Shigesou; and Kojima, Yasunobu, to Nippon Valqua Kogyo Kabushiki Kaisha. Process for producing polytetrafluoroethylene porous films. 4,707,314, 11-17-87, Cl. 264-127.000.

Kawahira, Mutsuyoshi, to Fuji Koki Manufacturing Co., Ltd. Sealed type motor-operated flow control valve. 4,650,156, 3-17-87, Cl. 251-129.110.

Kawahira, Mutsuyoshi, to Fuji Koki Manufacturing Co., Ltd. Method for assembling a sealed type motor-operated flow control valve. 4,703,545, 11-3-87, Cl. 29-157.10R.

Kawai, Akio; Ito, Ken; and Iwamoto, Hideo, to Nissan Motor Co., Ltd. Device for diagnosis of trouble in vehicle ignition devices. 4,639,676, 1-27-87, Cl. 324-380.000.

Kawai, Akira: *See*—

Nakajima, Masayuki; Sato, Shinichi; Tokui, Akira; Kawai, Akira; Nagatomo, Masao; and Ozaki, Hiroji, 4,702,796, Cl. 156-653.000.

Kawai, Chiaki; Ohta, Minoru; and Inaba, Takahisa, to Nippon Kokan Kabushiki Kaisha. Method for constructing large-scale marine structure. 4,686,919, 8-18-87, Cl. 114-45.000.

Kawai, Hideaki; and Murakami, Kiyoharu, to Kabushiki Kaisha Daikin Seisakusho. Power transmission apparatus with two-phase type torque converter. 4,662,243, 5-5-87, Cl. 74-731.000.

Kawai, Hidemi: *See*—

Murakami, Masaichi; Kawai, Hidemi; and Suwa, Kyoichi, 4,704,020, Cl. 353-122.000.

Suwa, Kyoichi; Kawai, Hidemi; and Murakami, Masaichi, 4,679,942, Cl. 356-401.000.

Kawai, Hideo: *See*—

Nakabayashi, Masamitsu; Kawai, Hideo; Tatsukawa, Suminori; and Kaji, Masayuki, 4,686,133, Cl. 428-209.000.

Kawai, Hiroshi; Ohtsuka, Yukio; and Mizuno, Kuniaki, to Toyota Jidosha Kabushiki Kaisha. Inclining molten metal charging apparatus for forced cooling casting. 4,644,996, 2-24-87, Cl. 164-336.000.

Kawai, Hiroshi; and Otsuka, Yukio, to Toyota Jidosha Kabushiki Kaisha. Forced cooling casting apparatus. 4,671,337, 6-9-87, Cl. 164-150.000.

Kawai, Hiroshi; Ohtsuka, Yukio; and Mizuno, Kuniaki, to Toyota Jidosha Kabushiki Kaisha. Cooling device for the tube member used in a forcibly cooled casting method and a method for its assembly. 4,674,551, 6-23-87, Cl. 164-4.100.

Kawai, Hiroshi: *See*—

Otsuka, Yukio; Kawai, Hiroshi; Iida, Kiyomi; and Nakano, Hironobu, 4,671,338, Cl. 164-150.000.

Kawai, Hiroyuki: *See*—

Otake, Noboru; Tatsuta, Kuniaki; Mizobuchi, Shigeyuki; Komeshima, Nobuyasu; Nakajima, Shohachi; Kawai, Hiroyuki; and Odagawa, Atsuo, 4,710,564, Cl. 536-6.400.

Kawai, Hisao, to Hoya Corporation. Electroluminescent panel having a light absorption layer of germanium oxide. 4,634,639, 1-6-87, Cl. 428-690.000.

Kawai, Hisasi: *See*—

Idogaki, Takaharu; Kawai, Hisasi; and Hayashi, Ikuo, 4,644,211, Cl. 310-266.000.

Idogaki, Takaharu; Kawai, Hisasi; Hattori, Kyo; and Sakurai, Kazuhiro, 4,647,009, Cl. 251-129.120.

Moritugu, Mitiyasu; Kawai, Hisasi; and Tokura, Norihito, 4,644,212, Cl. 310-317.000.

Obayashi, Hideki; Kawai, Hisasi; Ina, Toshikazu; Shigematsu, Takashi; Tokoro, Setsuo; and Kohama, Tokio, 4,691,286, Cl. 364-431.040.

Tokura, Norihito; Kawai, Hisasi; and Goto, Masahiro, 4,674,467, Cl. 123-644.000.

Tokura, Norihito; and Kawai, Hisasi, 4,677,378, Cl. 324-208.000.

Tokura, Norihito; Moritugu, Mitiyasu; and Kawai, Hisasi, 4,693,115, Cl. 73-204.000.

Tokura, Norihito; Kawai, Hisasi; Goto, Masahiro; Morino, Seiji; and Soumiya, Masato, 4,712,221, Cl. 123-606.000.

Kawai, Isamu: *See*—

Obe, Mitsuhiko; Kawai, Isamu; Nakata, Masaru; Oisi, Katumi; Shimizu, Yosaburo; Fukawatase, Katsushi; Nishikawa, Takao; Hinoue, Kenji; Arisawa, Susumu; Sato, Kenichi; Kurata, Yasunori; and Sato, Kengo, 4,650,242, Cl. 296-190.000.

Kawai, Joji, to Mitsubishi Denki Kabushiki Kaisha. Running speed detector. 4,667,297, 5-19-87, Cl. 364-565.000.

Kawai, Joji: *See*—

Yoshida, Koichi; and Kawai, Joji, 4,654,632, Cl. 340-347.0AD.

Yoshida, Koichi; and Kawai, Joji, 4,716,535, Cl. 364-565.000.

Kawai, Juichiro: *See*—

Takeuchi, Mamoru; Nemoto, Sadao; Suzuki, Shizuo; and Kawai, Juichiro, 4,697,984, Cl. 415-142.000.

Kawai, Katsuhiro: *See*—

Shibuki, Osamu; Matsuyama, Noboru; Nagasawa, Yoshiaki; Kawai, Katsuhiro; Sakagami, Shigeru; and Onoyama, Toshiaki, 4,641,065, Cl. 318-135.000.

Kawai, Katsunori; Deguchi, Hiroyuki; Kobayashi, Hisao; and Sugizono, Shuichi, to Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Variable displacement refrigerant compressor of variable angle wobble plate type. 4,669,272, 6-2-87, Cl. 62-228.300.

Kawai, Katsunori; Kobayashi, Hisao; Deguchi, Hiroyuki; and Sugizono, Shuichi, to Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Variable delivery refrigerant compressor of double-acting swash plate type. 4,709,555, 12-1-87, Cl. 62-228.300.

Kawai, Katsunori: *See*—

Kobayashi, Hisao; Kawai, Katsunori; and Deguchi, Hiroyuki, 4,691,526, Cl. 62-217.000.

Kawai, Kazuo; Kawai, Sumikazu; and Katashima, Seiji, to Naniwa Products Co., Ltd. Entirely automatic, cold box type machine for molding an integral connecting core. 4,637,450, 1-20-87, Cl. 164-200.000.

Kawai, Kazuo; Kawai, Sumikazu; and Katashima, Seiji, to Naniwa Products Co., Ltd. Entirely automatic, cold box type machine for molding an integral connecting core. 4,660,709, 4-28-87, Cl. 198-339.100.

Kawai, Keiichi; Yasuda, Setsuo; and Sakaime, Zenichiro, to Futabadenki Kogyo Kabushiki Kaisha. Filling nozzle device for use in automatic meat stuffing apparatus. 4,669,149, 6-2-87, Cl. 17-33.000.

Kawai, Keiichi; Yasuda, Setsuo; and Sakaime, Zenichiro, to Futabadenki Kogyo Kabushiki Kaisha. Apparatus for automatically stuffing meat in a casing. 4,696,079, 9-29-87, Cl. 17-33.000.

Kawai, Kenji: *See*—

Onohara, Masayuki; Kawai, Kenji; Shibata, Masaru; Igarashi, Akira; and Kawaguchi, Nobuhisa, 4,686,124, Cl. 428-35.000.

Kawai, Kiyoshi: *See*—

Sasaki, Toshio; Katao, Masaaki; Kawai, Kiyoshi; and Shiga, Akinobu, 4,672,050, Cl. 502-116.000.

Kawai, Koji; Murata, Hisashi; and Okamoto, Koichi, to Mitsubishi Jukogyo Kabushiki Kaisha. Sheet separating device in a packaging machine. 4,685,272, 8-11-87, Cl. 53-389.000.

Kawai, Makoto: *See*—

Yagi, Shizuo; Hirosawa, Yoshiaki; Kawai, Makoto; and Fujii, Isao, 4,694,799, Cl. 123-425.000.

Yagi, Shizuo; Kawai, Makoto; and Yamamoto, Yorihisa, 4,709,678, Cl. 123-425.000.

Kawai, Masahiko: *See*—

Akimoto, Taizo; and Kawai, Masahiko, 4,709,268, Cl. 358-150.000.

Kawai, Masahisa, to Fujitsu Limited. Method and apparatus for supervising digital radio transmission line. 4,677,619, 6-30-87, Cl. 371-5.000.

Kawai, Masanobu. Baker's dough. 4,680,182, 7-14-87, Cl. 426-62.000.

Kawai, Masao: *See*—

Harada, Yoshiharu; Taga, Yutaka; Nishikawa, Seiichi; Hayakawa, Yoichi; and Kawai, Masao, 4,688,449, Cl. 74-740.000.

Harada, Yoshiharu; Taga, Yutaka; Fukumura, Kagenori; Hayakawa, Yoichi; and Kawai, Masao, 4,693,143, Cl. 74-866.000.

Harada, Yoshiharu; Taga, Yutaka; Fukumura, Kagenori; Hayakawa, Yoichi; and Kawai, Masao, 4,708,032, Cl. 74-866.000.

Harada, Yoshiharu; Taga, Yutaka; Fukumura, Kagenori; Hayakawa, Yoichi; and Kawai, Masao, 4,713,988, Cl. 74-868.000.

Hayakawa, Yoichi; Kawai, Masao; Taga, Yutaka; Watanabe, Kazuaki; and Harada, Yoshiharu, 4,679,450, Cl. 74-752.00A.

Hayakawa, Yoichi; Kawai, Masao; Yoshizawa, Kenichi; Harada, Yoshiharu; and Fukumura, Kagenori, 4,697,479, Cl. 74-867.000.

Hayakawa, Yoichi; Kawai, Masao; Nishikawa, Seiichi; and Fukumura, Kagenori, 4,713,989, Cl. 74-869.000.

Kawai, Masato, to NEC Corporation. Method of generating test patterns for logic network devices. 4,696,006, 9-22-87, Cl. 371-27.000.

Kawai, Mitsuo: *See*—

Matsumoto, Hisashi; Motogami, Yoshikazu; Miyahara, Masahiko; Inoue, Tokuta; Hasegawa, Kohichi; Aoki, Keiji; Ikeda, Shinji; Kawai, Mitsuo; Kobashi, Mamoru; Takata, Mamoru; Nagase, Masaomi; and Hoshiba, Hiroyuki, 4,665,740, Cl. 73-116.000.

Kawai, Motoji: *See*—

Kaita, Hirosi; Kojima, Tsuyoshi; and Kawai, Motoji, 4,643,344, Cl. 227-112.000.

Kawai, Motoshi; Yamamoto, Noboru; Mase, Katuhisa; Matsui, Takeshi; Mikino, Tomoatsu; Miyase, Yoshiyuki; Okuda, Ryoichi; and Suzumura, Koichi, to Nippondenso Co., Ltd. Ignition control apparatus for internal combustion engines. 4,649,888, 3-17-87, Cl. 123-609.000.

Kawai, Motoshi: *See*—

Yamamoto, Noboru; Mase, Katsuhisa; Kawai, Motoshi; Miyase, Yoshiyuki; and Matsui, Takeshi, 4,658,788, Cl. 123-418.000.

Kawai Musical Instrument Mfg. Co., Ltd.: *See*—

Deutsch, Ralph, 4,638,707, Cl. 84-1.190.

Deutsch, Ralph, 4,643,067, Cl. 84-1.010.

Deutsch, Ralph, 4,646,608, Cl. 84-1.010.

Deutsch, Ralph, 4,649,787, Cl. 84-1.220.

Deutsch, Ralph, 4,656,912, Cl. 84-1.220.

Deutsch, Ralph, 4,677,889, Cl. 84-1.010.

Deutsch, Ralph, 4,679,478, Cl. 84-1.100.

Deutsch, Ralph, 4,683,793, Cl. 84-1.010.

Deutsch, Ralph, 4,697,490, Cl. 84-1.010.

Deutsch, Ralph, 4,702,142, Cl. 84-1.010.

Deutsch, Ralph, 4,713,997, Cl. 84-1.220.

Kawai, Noboru; Abe, Toshiro; and Murata, Kei, to Victor Company of Japan, Ltd. Method for fabricating a master recording disc. 4,655,876, 4-7-87, Cl. 156-643.000.

Kawai, Noboru: *See*—

Tani, Zempei; Hachimura, Kenji; and Kawai, Noboru, 4,689,540, Cl. 318-608.000.

Kawai, Nobuo: *See*—

Takami, Akio; Matsuura, Toshitaka; and Kawai, Nobuo, 4,656,863, Cl. 73-23.000.

Kawai, Nobuyasu; Hirano, Minoru; Esaka, Hajime; and Fujimoto, Hirofumi, to Kabushiki Kaisha Kobe Seiko Sho. High hardness and high toughness nitriding powder metallurgical high-speed steel. 4,671,930, 6-9-87, Cl. 420-107.000.

Kawai, Noriaki: *See*—

Nakamura, Hiroshi; Matsuo, Shinzo; and Kawai, Noriaki, 4,669,442, Cl. 123-571.000.

Tomita, Takao; and Kawai, Noriaki, 4,693,133, Cl. 74-467.000.

Kawai, Osamu, to NSK-Warner K. K. Safety belt buckle. 4,663,808, 5-12-87, Cl. 24-641.000.

Kawai, Osamu: *See*—

Yamamoto, Kazuo; and Kawai, Osamu, 4,647,070, Cl. 280-804.000.

Kawai, Sadao: *See*—

Sakamoto, Teruo; Kawai, Sadao; Noda, Kinzaburo; Takeda, Toyohiko; and Kato, Hiroshi, 4,713,247, Cl. 424-461.000.

Kawai, Satoshi: *See*—

Fujita, Yoshiaki; and Kawai, Satoshi, 4,696,696, Cl. 75-246.000.

Kawai, Shoichi: *See*—

Nakanishi, Yasuhiro; and Kawai, Shoichi, 4,695,976, Cl. 364-900.000.

- Kawai, Sueo: *See—*
  - Ohmura, Keiji; Kawai, Sueo; Murakami, Yoshimasa; Takeichi, Michifumi; and Okazaki, Masato, 4,645,258, Cl. 296-204.000.
- Kawai, Sumikazu: *See—*
  - Kawai, Kazuo; Kawai, Sumikazu; and Katashima, Seiji, 4,637,456, Cl. 164-200.000.
  - Kawai, Kazuo; Kawai, Sumikazu; and Katashima, Seiji, 4,660,709, Cl. 198-339.100.
- Kawai, Syuji: *See—*
  - Ohyabu, Shuzo; Kawai, Syuji; Okamoto, Takehiko; and Migaki, Takao, 4,664,669, Cl. 623-66.000.
- Kawai, Tadashi: *See—*
  - Kusunoki, Gen; Meguro, Akira; Tokushima, Yasuo; Ohta, Koji; Kawai, Tadashi; and Sugata, Akihiko, 4,667,621, Cl. 118-687.000.
- Kawai, Taiyo: *See—*
  - Oishi, Kiyohiko; Nakanishi, Kiyoshi; Kayanuma, Nobuaki; Kawai, Taiyo; Nakagawa, Norihisa; and Nomura, Hiroshi, 4,667,636, Cl. 123-432.000.
- Kawai, Takashi: *See—*
  - Nakanishi, Yutaka; Yamada, Toshihiko; Sanada, Yuji; and Kawai, Takashi, 4,714,426, Cl. 431-132.000.
- Kawai, Takayoshi: *See—*
  - Matsui, Katsumasa; Ohba, Masahiro; Kakehi, Tohru; and Kawai, Takayoshi, 4,696,167, Cl. 62-180.000.
- Kawai, Tatsundo: *See—*
  - Shirato, Yoshiaki; Komatsu, Toshiyuki; Seito, Shinichi; Kawai, Tatsundo; Iwamoto, Hirofumi; Nakagawa, Katsumi; and Kuroda, Yasuo, 4,680,644, Cl. 358-294.000.
- Kawai, Tohru, to Canon Kabushiki Kaisha. Focal length variable lens apparatus. 4,697,891, 10-6-87, Cl. 350-429.000.
- Kawai, Toshiro: *See—*
  - Asai, Masahiro; Mizushima, Toshio; Kawai, Toshiro; Akutsu, Shigemitsu; and Uozumi, Yoshiaki, 4,706,617, Cl. 123-65.0PE.
- Kawai, Toshitake: *See—*
  - Shimizu, Yasuo; and Kawai, Toshitake, 4,651,840, Cl. 180-79.100.
- Kawai, Yasuhiro: *See—*
  - Kato, Hisatoyo; Kawai, Yasuhiro; Ohara, Yuji; Okamoto, Yoshihiko; Taniguchi, Yutaka; and Horikawa, Kazuo, 4,676,582, Cl. 350-6.500.
  - Maehara, Yasunori; Fujiwara, Sigemi; Koyama, Katsuhide; Tamura, Kaoru; Kawai, Yasuhiro; and Watanabe, Kazuya, 4,697,902, Cl. 354-281.000.
  - Ohgoda, Makoto; Tamura, Kaoru; and Kawai, Yasuhiro, 4,694,163, Cl. 250-234.000.
  - Tamura, Kaoru; and Kawai, Yasuhiro, 4,704,530, Cl. 250-327.200.
- Kawai, Yasuo; and Yazawa, Kazunaga, to Kabushiki Kaisha Advance Kaihatsu Kenkyujo. Hypotriglyceridemically active polysaccharides. 4,687,764, 8-18-87, Cl. 514-54.000.
- Kawai, Yasuo; and Shimohashi, Hirotaka, to Kabushiki Kaisya Advance Kaihatsu Kenkyujo. Intestinal microflora-improving agent. 4,710,379, 12-1-87, Cl. 424-93.000.
- Kawai, Yasushi: *See—*
  - Yamamoto, Masatoshi; Kawai, Yasushi; Shudo, Katsuyoshi; Kato, Hiroyuki; and Masuda, Shunsuke, 4,642,437, Cl. 219-84.000.
- Kawai, Yoichi; Abe, Masaru; Maki, Masami; Suzuki, Koutarou; and Hoshino, Minoru, to Mitsui Toatsu Chemicals, Inc. Glass-fiber reinforced polypropylene resin composition. 4,663,369, 5-5-87, Cl. 523-203.000.
- Kawai, Yoichi; Abe, Masaru; Yoshihara, Akio; Hayashi, Shigeru; and Sekiguchi, Katsumi, to Mitsui Toatsu Chemicals, Incorporated. Polypropylene-base resin composition. 4,705,818, 11-10-87, Cl. 523-200.000.
- Kawai, Yoshio: *See—*
  - Inokuchi, Kiyoshi; Sugimachi, Keizo; Shirakami, Toshiharu; Kai, Hidenobu; Kawai, Yoshio; and Hotta, Tetsuya, 4,676,258, Cl. 128-804.000.
  - Nakaguti, Osamu; Shimazaki, Norihiko; Kawai, Yoshio; Hashimoto, Masashi; and Nakatuka, Michie, 4,694,004, Cl. 514-228.000.
  - Sogawa, Akira; Inokuchi, Kiyoshi; Sugimachi, Keizo; Kai, Hidenobu; Hotta, Tetsuya; and Kawai, Yoshio, 4,662,383, Cl. 128-784.000.
  - Sugiyama, Kazuhiro; and Kawai, Yoshio, 4,680,432, Cl. 200-5.00A.
- Kawai, Yukio: *See—*
  - Kawabata, Yasuhiro; Ito, Shoji; Kawai, Yukio; Sasano, Mitsunori; and Ohmura, Fusaji, 4,665,948, Cl. 137-625.480.
  - Okano, Hiroshi; Kawai, Yukio; and Ii, Akira, 4,644,784, Cl. 73-117.300.
- Kawaide, Tatsuo: *See—*
  - Sakaguchi, Isao; and Kawaide, Tatsuo, 4,696,831, Cl. 427-48.000.
- Kawajiri, Kazuhiko; Fujiwara, Michio; Tsuchino, Kazunori; and Hisamori, Youichi, to Mitsubishi Denki Kabushiki Kaisha. Apparatus for preventing the rise of oil in a stirling engine. 4,711,091, 12-8-87, Cl. 60-517.000.
- Kawajiri, Kazuhiko: *See—*
  - Fujiwara, Michio; Kazumoto, Yoshio; Nomaguchi, Tamotsu; Tsuchino, Kazunori; Kawajiri, Kazuhiko; and Hisamori, Youichi, 4,662,176, Cl. 60-526.000.
- Kawajiri, Kazuhiro; Tamura, Hiroshi; Shinada, Haruji; Saito, Mitsuo; and Mizobuchi, Yuzo. Solid-state photo sensor device. 4,714,950, 12-22-87, Cl. 357-30.000.
- Kawajiri, Kazuhiro: *See—*
  - Higashi, Akio; Shinada, Haruji; Kawajiri, Kazuhiro; Ono, Yoshihiro; Saitou, Mitsuo; Tamura, Hiroshi; and Ikeda, Mitsuru, 4,694,317, Cl. 357-30.000.
  - Tabei, Masatoshi; and Kawajiri, Kazuhiro, 4,701,798, Cl. 358-213.260.
- Kawajiri, Mitugu, to Nissan Motor Co., Ltd. Air jet loom. 4,673,008, 6-16-87, Cl. 139-435.000.
- Kawajiri, Ryoichi: *See—*
  - Ando, Michihiro; Kawajiri, Ryoichi; and Uematsu, Hiroshi, 4,669,640, Cl. 222-541.000.
- Kawajiri, Shogo: *See—*
  - Miyata, Hiroshi; and Kawajiri, Shogo, 4,660,409, Cl. 73-35.000.
  - Tsunooka, Tsutomu; Takeuchi, Tadashi; Ushida, Kunihiro; and Kawajiri, Shogo, 4,638,206, Cl. 310-313.00B.
- Kawakami, Chikahisa; and Suzuki, Tsuneo, to Kabushiki Kaisha Toshiba; and Toshiba Computer Engineering Corporation. Floppy disc chucking device. 4,654,733, 3-31-87, Cl. 360-99.000.
- Kawakami, Chikahisa, to Kabushiki Kaisha Toshiba. Construction for installing a stepping motor of a floppy disk drive unit. 4,700,995, 10-13-87, Cl. 310-91.000.
- Kawakami, Chikuni; and Nakadai, Katsuo, to Fuji Photo Film Co., Ltd. Electronic still camera capable of editing picture recorded on disk. 4,660,102, 4-21-87, Cl. 360-14.100.
- Kawakami, Chikuni; and Sekizawa, Ikuhisa, to Fuji Photo Film Co., Ltd. Method of recording and reproducing line sequential color video signal. 4,689,662, 8-25-87, Cl. 358-14.000.
- Kawakami, Eigo: *See—*
  - Nishimura, Yukuo; Asano, Toshiaki; Mizusawa, Nobutoshi; Kawakami, Eigo; Haruta, Masahiro; Noma, Takashi; Takagi, Hiroshi; Nakazawa, Mitsunobu; and Ozawa, Kunitaka, 4,640,592, Cl. 350-96.320.
  - Nishimura, Yukuo; Kawakami, Eigo; Asano, Toshiaki; Haruta, Masahiro; Takagi, Hiroshi; Noma, Takashi; Mizusawa, Nobutoshi; Nakazawa, Mitsunobu; and Ozawa, Kunitaka, 4,685,766, Cl. 350-96.320.
  - Suda, Shigeyuki; Niwa, Yukichi; Ogino, Yasuo; Kawakami, Eigo; and Ohwada, Mitsutoshi, 4,667,316, Cl. 369-44.000.
- Kawakami, Hajime, to Kawakami Sangyo Kabushiki Kaisha. Apparatus for producing sheet having many hollow bodies from thermoplastic material. 4,657,625, 4-14-87, Cl. 156-471.000.
- Kawakami, Haruko: *See—*
  - Sekizawa, Hidekazu; Kawakami, Haruko; and Yamamoto, Naofumi, 4,698,669, Cl. 358-76.000.
- Kawakami, Hideaki: *See—*
  - Ishino, Tsutomu; Omatsu, Hideo; Shiraishi, Takao; and Kawakami, Hideaki, 4,699,239, Cl. 180-315.000.
  - Kitazima, Masaaki; Kawakami, Hideaki; and Nagae, Yoshiharu, 4,649,517, Cl. 365-108.000.
- Kawakami, Hideo; Tazawa, Shinichi; Endo, Masami; and Kinoshita, Masaharu, to Toshiba Machine Co., Ltd. Polishing machine and method of attaching emery cloth to the polishing machine. 4,674,236, 6-23-87, Cl. 51-325.000.
- Kawakami, Hideo: *See—*
  - Sakuma, Shinzo; Tamaki, Nobuaki; and Kawakami, Hideo, 4,661,666, Cl. 200-144.00B.
- Kawakami, Hiroshi; Shinmoto, Hiroshi; Dosako, Shunichi; and Abiko, Kenkichi, to Snow Brand Milk Products Co., Ltd. Method for separating bovine lactoferrin from cow's milk and purifying same. 4,668,771, 5-26-87, Cl. 530-366.000.
- Kawakami, Hiroshi, to Kabushiki Kaisha Toshiba. Autochanger type disc player. 4,695,990, 9-22-87, Cl. 369-38.000.
- Kawakami, Hiroshi; and Ishizaka, Kazuo, to Sony Corporation. Apparatus for monitoring a timebase compressed color video signal. 4,712,143, 12-8-87, Cl. 358-311.000.
- Kawakami, Hiroshi: *See—*
  - Satomura, Masato; Iwakura, Ken; and Kawakami, Hiroshi, 4,701,565, Cl. 568-644.000.
- Kawakami, Itaru: *See—*
  - Hoshino, Masaaki; and Kawakami, Itaru, 4,689,669, Cl. 358-80.000.
- Kawakami, James H.; Harris, James E.; Maresca, Louis M.; Robeson, Lloyd M.; and Cotter, Robert J., to Amoco Corporation. Ordered alternating sulfone polycarbonate composition. 4,705,822, 11-10-87, Cl. 524-425.000.
- Kawakami, James H.: *See—*
  - Robeson, Lloyd M.; Harris, James E.; Maresca, Louis M.; and Kawakami, James H., 4,665,122, Cl. 524-504.000.
  - Robeson, Lloyd M.; Harris, James E.; Kawakami, James H.; and Maresca, Louis M., 4,698,390, Cl. 525-133.000.
- Kawakami, Kanji: *See—*
  - Sato, Ichiya; Yoneyama, Takao; Tanabe, Masanori; Kawakami, Kanji; Okada, Hisao; Sasaki, Soji; Inose, Shigeru; Suto, Mareo; and Uzuhashi, Hideo, 4,665,282, Cl. 178-18.000.
  - Shimada, Satoshi; Kawakami, Kanji; Tadauchi, Masaharu; and Nishihara, Motohisa, 4,689,652, Cl. 357-30.000.
  - Yamada, Kazuji; Kobayashi, Yutaka; Kawakami, Kanji; Shimada, Satoshi; Tanabe, Masanori; and Kobori, Shigeyuki, 4,670,969, Cl. 29-576.00E.
- Kawakami, Kazuo; Nagai, Yawara; and Aihara, Takayuki, to Olympus Optical Co., Ltd. Automatic cuvette loading apparatus. 4,634,575, 1-6-87, Cl. 422-63.000.
- Kawakami, Kenji: *See—*
  - Horikawa, Kenichi; Yamamoto, Yoshinori; and Kawakami, Kenji, 4,644,433, Cl. 360-132.000.
  - Ohyama, Masao; Yamamoto, Yoshinori; Horikawa, Kenichi; and Kawakami, Kenji, 4,694,360, Cl. 360-96.500.
- Kawakami, Kenneth, to Microwave Technology, Inc. Series biasing scheme for field effect transistors. 4,677,391, 6-30-87, Cl. 330-269.000.
- Kawakami, Kiyotada, to Sanyo Electric Co., Ltd. Video superimposition system with chroma keying. 4,697,176, 9-29-87, Cl. 340-723.000.

Kawakami, Masafumi; and Nishimura, Takashi, to Sumitomo Rubber Industries, Ltd. Radial tire for industrial vehicles. 4,664,167, 5-12-87, Cl. 152-209.00R.

Kawakami, Masanori; Nishiwaki, Shoji; and Maehara, Hidejirou, to Ricoh Company, Ltd. Ink ribbon cartridge and color ink ribbon for printer. 4,669,899, 6-2-87, Cl. 400-240.300.

Kawakami, Masaru: *See*—
Adachi, Ikuo; Hiramatsu, Yoshiharu; Ueda, Motohiko; and Kawakami, Masaru, 4,703,051, Cl. 514-291.000.

Kawakami, Masumi: *See*—
Suzuki, Seigo; Yabe, Yukihiko; and Kawakami, Masumi, 4,692,640, Cl. 307-464.000.

Kawakami, Michio; Araki, Yoshima; Murakami, Kenkichi; Oikawa, Hidetoshi; Nakanishi, Michio; and Hosotani, Makoto, to Tohoku University. Low modulus thermoplastic elastomeric polyester-polysiloxane block copolymers. 4,659,786, 4-21-87, Cl. 525-415.000.

Kawakami, Mitsuo; and Kawamoto, Hiroyuki, to Hitachi, Ltd. Sodium-sulfur cell block. 4,678,727, 7-7-87, Cl. 429-104.000.

Kawakami, Naoya: *See*—
Akazawa, Naoki; Nishi, Kazuhiko; Kawakami, Naoya; Fujisawa, Yoshiaki; and Yamada, Noriyoshi, 4,706,470, Cl. 62-209.000.

Kawakami, Osamu: *See*—
Iwamoto, Katsuharu; Kawakami, Osamu; Miyagawa, Hideo; Tashiro, Ikuo; and Ishimura, Takiji, 4,687,927, Cl. 250-231.00P.

Kawakami Sangyo Kabushki Kaisha: *See*—
Kawakami, Hajime, 4,657,625, Cl. 156-471.000.

Kawakami, Sanji, to Kabushiki Kaisha Daisei Kikai. Apparatus for feeding sprouting beans or the like in fixed quantities. 4,679,641, 7-14-87, Cl. 177-114.000.

Kawakami, Seiho: *See*—
Takeshita, Hajime; Iwase, Takahiro; Masuda, Naofumi; Sibata, Takuo; Mochizuki, Hiroyuki; Kobayashi, Nobuo; Kawakami, Seiho; and Kuroiwa, Yosio, 4,693,813, Cl. 409-244.000.

Kawakami, Shigenobu; Matsuzaka, Eiichi; Narui, Satoshi; and Takahashi, Naoya, to Nippon Petrochemicals Company, Limited. Solvent for the dye of pressure-sensitive recording paper. 4,661,165, 4-28-87, Cl. 106-311.000.

Kawakami, Shigenobu: *See*—
Sato, Atsushi; Endo, Keiji; Kawakami, Shigenobu; and Dohi, Hideyuki, 4,639,833, Cl. 361-315.000.
Sato, Atsushi; Endo, Keiji; Kawakami, Shigenobu; Matsuzaka, Eiichi; and Narui, Satoshi, 4,642,730, Cl. 361-315.000.
Sato, Atsushi; Endo, Keiji; Dohi, Hideyuki; and Kawakami, Shigenobu, 4,670,348, Cl. 428-461.000.
Sato, Atsushi; Endo, Keiji; Kawakami, Shigenobu; Yanagishita, Hitoshi; and Hayashi, Shozo, 4,681,980, Cl. 585-6.300.
Sato, Atsushi; Kawakami, Shigenobu; Endo, Keiji; and Dohi, Hideyuki, 4,716,084, Cl. 428-458.000.

Kawakami, Soichiro: *See*—
Itabashi, Satoshi; Kawakami, Soichiro; Terada, Katsunori; Suzuki, Hideyuki; Furushima, Teruhiko; and Fukaya, Masaki, 4,705,598, Cl. 156-643.000.

Kawakami, Takashi, to Sumitomo Heavy Industries, Ltd. Mold apparatus for continuous casting system. 4,637,452, 1-20-87, Cl. 164-420.000.

Kawakami, Takashi: *See*—
Itagaki, Masato; Kikuchi, Katsuaki; Nakayama, Susumu; Haeda, Yoshio; and Kawakami, Takashi, 4,704,792, Cl. 29-741.000.

Kawakami, Takuji: *See*—
Tamura, Hisao; and Kawakami, Takuji, 4,674,792, Cl. 297-408.000.

Kawakami, Toshio; Mori, Masaaki; and Okada, Chiharu, to Ricoh Company, Ltd. Thermal print head driving system. 4,688,051, 8-18-87, Cl. 346-76.0PH.

Kawakami, Toshiro: *See*—
Tamura, Toru; Shibata, Noriyoshi; and Kawakami, Toshiro, 4,639,148, Cl. 384-420.000.

Kawakami, Yoshio: *See*—
Kajimoto, Norifumi; Kawakami, Yoshio; and Takizawa, Masahiro, 4,673,622, Cl. 428-423.100.
Yoda, Kunichi; Kitaura, Eiji; Tsunoda, Tsutomu; and Kawakami, Yoshio, 4,713,278, Cl. 428-141.000.

Kawakami, Yuichi: *See*—
Doi, Kohji; and Kawakami, Yuichi, 4,700,324, Cl. 364-745.000.

Kawakatsu, Akira; Watanabe, Tsutomu; and Yuge, Yoji, to Kabushiki Kaisha Toshiba. Incandescent lamp with bulb having IR reflecting film. 4,652,789, 3-24-87, Cl. 313-112.000.

Kawakatsu, Akira; Yuge, Yooji; Hayama, Noriyuki; Saito, Tokuyoshi; and Maeda, Umio, to Kabushiki Kaisha Toshiba. Lamp having interference film. 4,701,663, 10-20-87, Cl. 313-112.000.

Kawakatsu, Fukuyoshi: *See*—
Izumi, Toshio; and Kawakatsu, Fukuyoshi, 4,667,943, Cl. 267-141.300.

Kawakatsu, Satoshi: *See*—
Iijima, Toshifumi; Kumashiro, Kenji; Kashiwagi, Hiroshi; Hatta, Koichi; Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; and Shinozaki, Kaoru, 4,665,015, Cl. 430-558.000.
Kaneko, Yutaka; Kadokura, Kenji; Kimura, Toshihiko; Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; and Shinozaki, Kaoru, 4,675,280, Cl. 430-558.000.
Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; Iijima, Toshijumi; Kumashiro, Kenji; Kashiwagi, Hiroshi; Hatta, Koichi; Uchida, Takashi; Wada, Hajime; Ishii, Fumio; Matsunaga, Satoshi; Matsubara, Yasuko; and Shinozaki, Kaoru, 4,695,533, Cl. 430-558.000.

Kawakatsu, Yoshifumi: *See*—
Yoshinari, Osamu; Kawakatsu, Yoshifumi; Takahashi, Hayashi; and Fukuizumi, Hideaki, 4,659,623, Cl. 428-395.000.

Kawaki, Takao: *See*—
Sugio, Akitoshi; Kawaki, Takao; and Hayashi, Katsushige, 4,670,535, Cl. 528-220.000.

Kawakita, Kazuaki; and Higuchi, Makio, to Nippon Seiko Kabushiki Kaisha. Method of and apparatus for magnetically detecting the three-dimensional rotational position and movement of an object. 4,661,773, 4-28-87, Cl. 324-208.000.

Kawakita, Kenji; Nomura, Noboru; and Takemoto, Toyoki, to Matsushita Electric Industrial Co., Ltd. Method of manufacturing isolated semiconductor devices. 4,685,198, 8-11-87, Cl. 437-73.000.

Kawakita, Kenji: *See*—
Ochiai, Michihiko; Okada, Tanti; Aki, Osami; Morimoto, Akira; Kawakita, Kenji; and Matsushita, Yoshihiro, 4,668,783, Cl. 540-222.000.

Kawakita, Takao; and Miyao, Ichiro, to Osaka Diamond Industrial Co. Method for welding cutter segments. 4,689,919, 9-1-87, Cl. 51-206.00P.

Kawakita, Tetsuya: *See*—
Tanaka, Kiyoshi; Koga, Yoshihiro; Saeki, Masaru; Kaneko, Tetsuya; and Kawakita, Tetsuya, 4,663,048, Cl. 210-638.000.
Tanaka, Kiyoshi; Saeki, Masara; Matsuishi, Tsutomu; Koga, Yoshihiro; and Kawakita, Tetsuya, 4,714,767, Cl. 548-344.000.
Toyoshi, Seiji; Yoshizumi, Tomoya; Saeki, Masaru; and Kawakita, Tetsuya, 4,711,722, Cl. 210-638.000.

Kawakita, Tsunehiro; and Imajo, Minoru, to Nissan Motor Co., Ltd. Engine lubricant type and condition monitoring system. 4,694,793, 9-22-87, Cl. 123-196.00S.

Kawakita, Tsunehiro: *See*—
Imajo, Minoru; and Kawakita, Tsunehiro, 4,706,193, Cl. 364-424.000.

Kawakubo, Fumio; Takanoo, Miyako; Yukimoto, Sadao; and Isayama, Katsuhiko, to Kanegafuchi Kogaku Kabushiki Kaisha. Polymer and pressure sensitive adhesive composition. 4,687,818, 8-18-87, Cl. 525-404.000.

Kawakubo, Fumio: *See*—
Isayama, Katsuhiko; Hirose, Toshifumi; Iwahara, Takahisa; and Kawakubo, Fumio, 4,657,986, Cl. 525-407.000.

Kawakubo, Katsuhiko: *See*—
Konotsune, Takuo; and Kawakubo, Katsuhiko, 4,687,858, Cl. 548-243.000.

Kawakyu, Katsue: *See*—
Ikawa, Yasuo; Kawakyu, Katsue; and Kameyama, Atushi, 4,639,621, Cl. 307-450.000.

Kawalec, Krzysztof: *See*—
Traczyk, Jan; Brejnak, Jacek; and Kawalec, Krzysztof, 4,696,622, Cl. 415-211.000.

Kawamata, Masanobu: *See*—
Enomoto, Hiroshi; Kawamata, Masanobu; Nomura, Akira; Aoyagi, Yoshiaki; and Ueda, Fusao, 4,657,907, Cl. 514-245.000.

Kawamata, Syoichi: *See*—
Takahashi, Tadashi; Miyashita, Kunio; and Kawamata, Syoichi, 4,677,377, Cl. 324-208.000.

Kawamata, Syooichi: *See*—
Takahashi, Tadashi; Miyashita, Kunio; and Kawamata, Syooichi, 4,694,688, Cl. 73-116.000.
Takahashi, Tadashi; Miyashita, Kunio; and Kawamata, Syooichi, 4,707,695, Cl. 340-870.310.
Takahashi, Tadashi; Miyashita, Kunio; and Kawamata, Syooichi, 4,713,613, Cl. 324-208.000.

Kawamata, Toshio; Nishikawa, Yasuo; and Morita, Kazuhiko, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,654,258, 3-31-87, Cl. 428-323.000.

Kawamata, Yuuji; Iino, Tomohiko; Suzuki, Ryoichi; and Haga, Noriyuki, to Senju Metal Industry Co., Ltd. Method of performing plating of an item having fine parts and a support device therefor. 4,695,481, 9-22-87, Cl. 427-96.000.

Kawamatsu, Koji: *See*—
Tatematsu, Kazuhisa; Kondo, Tokuji; Sasaki, Shiro; and Kawamatsu, Koji, 4,666,208, Cl. 297-341.000.

Kawami, Shigeru; Tabu, Takashi; Ayano, Mitsutoshi; Shibuya, Kiyoshi; and Itoh, Shin-ichi, to Fujitsu Limited. Battery feed circuit for a pair of subscriber lines. 4,677,669, 6-30-87, Cl. 379-413.000.

Kawaminami, Syuichi: *See*—
Fujikawa, Nobuyoshi; Kawaminami, Syuichi; and Yokoe, Nobuo, 4,701,827, Cl. 361-309.000.

Kawamo, Kazunori: *See*—
Yui, Yasuo; Minami, Tatsuo; and Kawamo, Kazunori, 4,662,109, Cl. 49-214.000.

Kawamori, Hideo: *See*—
Hayashi, Mamoru; and Kawamori, Hideo, 4,715,922, Cl. 156-361.000.

Kawamori, Ryuzo: *See*—
Abe, Hiroshi; Shichiri, Motoaki; Kawamori, Ryuzo; Ichoh, Tasuku; Iwatani, Kenji; Higuchi, Mamoru; Takagi, Kiyotaka; Okamoto, Norihiko; and Okudaira, Toshiyuki, 4,636,144, Cl. 417-63.000.

Kawamori, Yoshihiro: *See*—
Yada, Akira; Matsumoto, Shusaku; Kawamori, Yoshihiro; Saito, Takao; Nishiyama, Tadashi; and Adachi, Yoshitugu, 4,647,598, Cl. 522-3.000.
Yada, Akira; Matsumoto, Shusaku; Kawamori, Yoshihiro; Saito, Takao; Nishiyama, Tadashi; and Adachi, Yoshitugu, 4,690,788, Cl. 264-22.000.

Kawamori, Yoshizo: *See*—
Horihata, Katsushi; and Kawamori, Yoshizo, 4,713,672, Cl. 346-108.000.

Iseki, Masahide; Yoshiyama, Toshio; Kajita, Hiroshi; Itakiyo, Masanori; Kusumoto, Hiroshi; Kawamori, Yoshizo; and Kawamoto, Masuo, 4,668,076, Cl. 355-15.000.
Iseki, Masahide; Yoshiyama, Toshio; Kajita, Hiroshi; Itakiyo, Masanori; Kusumoto, Hiroshi; Kawamori, Yoshizo; and Kawamoto, Masuo, 4,674,859, Cl. 355-3.0FU.
Iseki, Masahide; Yoshiyama, Toshio; Kajita, Hiroshi; Itakiyo, Masanori; Kusumoto, Hiroshi; Kawamori, Yoshizo; and Kawamoto, Masuo, 4,685,792, Cl. 355-3.0SH.
Kawamoto, Akio: *See—*
Akihama, Shigeyuki; Saito, Makoto; Kawamoto, Akio; Banno, Tadashi; Umeki, Yoshihiko; and Nakamura, Takumi, 4,700,518, Cl. 52-309.160.
Kawamoto, Fumiaki: *See—*
Honma, Yoshihiro; Kawamoto, Fumiaki; and Tanaka, Shozo, 4,661,208, Cl. 203-15.000.
Kawamoto, Galen: *See—*
Tsang, Chi-Hwa; Kawamoto, Galen; and Yau, Leopoldo D., 4,690,728, Cl. 156-643.000.
Kawamoto, Hiroshi, to Hitachi, Ltd. Dynamic storage device with extended information holding time. 4,695,864, 9-22-87, Cl. 357-41.000.
Kawamoto, Hiroshi; and Miyazaki, Hiroshi, to Toyota Jidosha Kabushiki Kaisha. Turbocharger for internal combustion engine. 4,704,074, 11-3-87, Cl. 417-407.000.
Kawamoto, Hiroshi: *See—*
Okamura, Hisashi; and Kawamoto, Hiroshi. 4,668,616, Cl. 430-621.000.
Okamura, Hisashi; Kawamoto, Hiroshi; and Shiraishi, Hisashi, 4,673,632, Cl. 430-510.000.
Okamura, Hisashi; Kawamoto, Hiroshi, and Sakakibara, Yoshio, 4,708,927, Cl. 430-564.000.
Shimohigashi, Katsuhiro; Masuda, Hiroo; Ikuzaki, Kunihiko; and Kawamoto, Hiroshi, 4,646,267, Cl. 365-189.000.
Shimohigashi, Katsuhiro; Masuda, Hiroo; Ikuzaki, Kunihiko; and Kawamoto, Hiroshi, 4,709,353, Cl. 365-205.000.
Tanimura, Nobuyoshi; and Kawamoto, Hiroshi, 4,660,180, Cl. 365-222.000.
Yamada, Sumito; Nakamura, Taku; Suga, Shuzo; and Kawamoto, Hiroshi, 4,647,528, Cl. 430-567.000.
Kawamoto, Hiroyuki: *See—*
Kawakami, Mitsuo; and Kawamoto, Hiroyuki, 4,678,727, Cl. 429-104.000.
Kohno, Akiomi; Nakae, Hideo; Yamamoto, Akihiko; and Kawamoto, Hiroyuki, 4,699,310, Cl. 228-122.000.
Kawamoto, Isao: *See—*
Kase, Hiroshi; Matsuda, Yuzuru; Kawamoto, Isao; Asano, Kozo; Shirahata, Kunikatsu; Yasuzawa, Tohru; and Yamada, Koji, 4,692,310, Cl. 424-122.000.
Yamato, Masayuki; Kase, Hiroshi; Kawamoto, Isao; Kasai, Masaji; Shirahata, Kunikatsu; Deguchi, Takashi; Shuto, Katsuichi; Karasawa, Akira; Okachi, Ryo; and Nakayama, Kiyoshi, 4,683,220, Cl. 514-7.000.
Kawamoto, Joji. Waste water treating agent and method for producing the same. 4,655,931, 4-7-87, Cl. 210-679.000.
Kawamoto, Kenichi, to Canon Kabushiki Kaisha. Motor built-in lens mounting. 4,695,145, 9-22-87, Cl. 354-271.100.
Kawamoto, Kenichi: *See—*
Komine, Yoshio; and Kawamoto, Kenichi, 4,636,042, Cl. 350-429.000.
Kawamoto, Masako: *See—*
Ikematsu, Hideaki; and Kawamoto, Masako, 4,707,864, Cl. 4-144.300.
Kawamoto, Masashi: *See—*
Yamada, Fumiya; Matsuki, Seiichiro; Kawamura, Masahiko; and Kawamoto, Masashi, 4,710,835, Cl. 360-106.000.
Kawamoto, Masuo: *See—*
Iseki, Masahide; Yoshiyama, Toshio; Kajita, Hiroshi; Itakiyo, Masanori; Kusumoto, Hiroshi; Kawamori, Yoshizo; and Kawamoto, Masuo, 4,668,076, Cl. 355-15.000.
Iseki, Masahide; Yoshiyama, Toshio; Kajita, Hiroshi; Itakiyo, Masanori; Kusumoto, Hiroshi; Kawamori, Yoshizo; and Kawamoto, Masuo, 4,674,859, Cl. 355-3.0FU.
Iseki, Masahide; Yoshiyama, Toshio; Kajita, Hiroshi; Itakiyo, Masanori; Kusumoto, Hiroshi; Kawamori, Yoshizo; and Kawamoto, Masuo, 4,685,792, Cl. 355-3.0SH.
Morimoto, Kiyoshi; Kawamoto, Masuo; Kobayashi, Hiroshi; Hashizume, Masahiro; Tsudaka, Hideaki; and Kimura, Hiroshi, 4,692,019, Cl. 355-8.000.
Takemura, Yoshinobu; Kawamoto, Masuo; Hashizume, Masahiro; and Nagata, Katsumi, 4,659,214, Cl. 355-75.000.
Kawamoto, Minoru: *See—*
Abe, Yoshio; Okano, Tetsuo; Omori, Tomohiro; and Kawamoto, Minoru, 4,693,225, Cl. 123-568.000.
Kawamoto, Mutsumi: *See—*
Sakakibara, Shiro; Kawamoto, Mutsumi; and Ando, Masahiko, 4,633,736, Cl. 74-689.000.
Yamada, Yoshihiro; Kawamoto, Mutsumi; Iwatsuki, Tatsuya; and Kuramochi, Koujiro, 4,646,890, Cl. 192-30.00V.
Kawamoto, Taizo: *See—*
Murakami, Tsugio; and Kawamoto, Taizo, 4,650,906, Cl. 564-498.000.
Kawamoto, Tamio. Transmission for an automobile. 4,669,326, 6-2-87, Cl. 74-363.000.
Kawamoto, Tetsuo: *See—*
Suzuki, Yasuo; Kawamoto, Tetsuo; Motohashi, Ryo; Naga, Masato; Takegawa, Katsumi; and Taniguchi, Naohiro, 4,704,567, Cl. 318-254.000.
Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, to Honda Giken Kogyo Kabushiki Kaisha. Front and rear wheel steering device for vehicle. 4,687,216, 8-18-87, Cl. 280-91.000.
Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, to Honda Giken Kogyo Kabushiki Kaisha. Front and rear wheel steering device. 4,695,068, 9-22-87, Cl. 280-91.000.
Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, to Honda Giken Kogyo Kabushiki Kaisha. Front and rear wheel steering device. 4,697,816, 10-6-87, Cl. 280-91.000.
Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, to Honda Giken Kogyo Kabushiki Kaisha. Front and rear wheel steering device for a vehicle. 4,703,822, 11-3-87, Cl. 180-140.000.
Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, to Honda Giken Kogyo Kabushiki Kaisha. Actuator for steering the rear wheels in front and rear wheel steering device for vehicle. 4,703,945, 11-3-87, Cl. 280-91.000.
Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, to Honda Giken Kogyo Kabushiki Kaisha. Front and rear wheel steering device. 4,705,135, 11-10-87, Cl. 180-236.000.
Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, to Honda Giken Kogyo Kabushiki Kaisha. Front and rear wheel steering device. 4,706,976, 11-17-87, Cl. 280-91.000.
Kawamukai, Kikuo: *See—*
Toyoshima, Makoto; and Kawamukai, Kikuo, 4,675,496, Cl. 219-121.0LD.
Kawamura, Atsushi, to Ricoh Company, Ltd. Zoom lens. 4,653,871, 3-31-87, Cl. 350-427.000.
Kawamura, Atsushi, to Ricoh Company, Ltd. Wide angle lens system having short overall length. 4,673,259, 6-16-87, Cl. 350-465.000.
Kawamura, Chiaki: *See—*
Sakurai, Kanji; Tsumura, Hideo; and Kawamura, Chiaki, 4,652,951, Cl. 360-106.000.
Kawamura Cycle Co., Ltd.: *See—*
Nakamura, Shizuo, 4,637,808, Cl. 474-80.000.
Kawamura Electric Industry Co., Ltd.: *See—*
Yokoyama, Makoto, 4,692,687, Cl. 323-284.000.
Kawamura, Fumio; Matsuda, Masami; Aoyama, Yoshiyuki; Chino, Koichi; and Mizumoto, Mamoru, to Hitachi, Ltd. Method of disposing radioactive ion exchange resin. 4,636,335, 1-13-87, Cl. 252-629.000.
Kawamura, Fumio: *See—*
Fukasawa, Tetsuo; Kawamura, Fumio; and Kikuchi, Makoto, 4,708,822, Cl. 252-628.000.
Matsuda, Masami; Aoyama, Yoshiyuki; Kawamura, Fumio; Yusa, Hideo; Kikuchi, Makoto; Tamata, Shin; and Horiuchi, Susumu, 4,654,172, Cl. 252-629.000.
Uetake, Naohito; Kawamura, Fumio; Yusa, Hideo; Kikuchi, Makoto; and Tamata, Shin, 4,648,990, Cl. 252-628.000.
Kawamura, Go: *See—*
Kudo, Tetsuichi; Kawamura, Go; and Ishikawa, Akira, 4,634,585, Cl. 423-419.00R.
Kudo, Tetsuichi; Kawamura, Go; and Ishikawa, Akira, 4,699,851, Cl. 429-33.000.
Kawamura, Hideaki; Miyata, Mitsuto; and Fujibayashi, Kentaro, to Fanuc Ltd. Acceleration/deceleration system for a numerical controller. 4,652,804, 3-24-87, Cl. 318-590.000.
Kawamura, Hideaki; Sakurada, Nobuaki; and Sasaki, Takashi, to Canon Kabushiki Kaisha. Image forming apparatus. 4,658,284, 4-14-87, Cl. 358-11.000.
Kawamura, Hideaki; Sakurada, Nobuaki; and Sasaki, Takashi, to Canon Kabushiki Kaisha. System and method for processing image signals. 4,658,300, 4-14-87, Cl. 358-280.000.
Kawamura, Hideaki; Sasaki, Takashi; and Sakurada, Nobuaki, to Canon Kabushiki Kaisha. Image signal processing apparatus. 4,667,22 5-19-87, Cl. 358-80.000.
Kawamura, Hideaki; and Otsuki, Toshiaki, to Fanuc Ltd. Interface unit between a numerical controller and an electric power control circuit. 4,684,861, 8-4-87, Cl. 318-567.000.
Kawamura, Hideaki; Sakurada, Nobuaki; Sato, Yuichi; and Watanabe, Yoshitaka, to Canon Kabushiki Kaisha. Picture producing apparatus using multiple dot forming units and recording materials of different concentrations. 4,713,701, 12-15-87, Cl. 358-298.000.
Kawamura, Hideaki: *See—*
Sakurada, Nobuaki; Kawamura, Hideaki; and Sasaki, Takashi, 4,635,078, Cl. 346-140.00R.
Sakurada, Nobuaki; Kawamura, Hideaki; and Sasaki, Takashi, 4,639,747, Cl. 346-140.00R.
Sakurada, Nobuaki; Kawamura, Hideaki; and Sasaki, Takashi, 4,672,432, Cl. 358-75.000.
Sasaki, Takashi; Sakurada, Nobuaki; and Kawamura, Hideaki, 4,682,186, Cl. 346-140.00R.
Sasaki, Takashi; Sakurada, Nobuaki; Kawamura, Hideaki; and Moriyama, Jiro, 4,682,216, Cl. 358-79.000.
Watanabe, Yoshitaka; Sakurada, Nobuaki; Kawamura, Hideaki; and Sato, Yuichi, 4,713,746, Cl. 346-1.100.
Kawamura, Hideo; Yoshida, Yukio; and Yamashita, Keiichi, to Isuzu Motors, Ltd. Fuel vaporization apparatus for combustor. 4,684,341, 8-4-87, Cl. 431-242.000.
Kawamura, Hideo, to Isuzu Motors Limited. Engine energy recovery apparatus. 4,694,653, 9-22-87, Cl. 60-597.000.

Kawamura, Hideo, to Isuzu Motors Limited. Exhaust energy recovery and generator for use with an engine. 4,694,654, 9-22-87, Cl. 60-605.000.

Kawamura, Hideo; Yoshida, Yukio; and Yamashita, Keichi, to Isuzu Motors Limited. Cleaning apparatus for fuel burner. 4,703,888, 11-3-87, Cl. 237-2.00A.

Kawamura, Hideo, to Isuzu Motors, Ltd. Emissions filter regeneration system. 4,711,087, 12-8-87, Cl. 60-286.000.

Kawamura Inst. of Chemical Res.: *See*—
  Anazawa, Takanori; and Ono, Yoshiyuki, 4,664,681, Cl. 55-158.000.

Kawamura, Joe: *See*—
  Wakabayashi, Hiroshi; and Kawamura, Joe, 4,657,978, Cl. 525-100.000.

Kawamura, Katsumi: *See*—
  Naito, Ryuichi; Kosaka, Minoru; and Kawamura, Katsumi, 4,637,005, Cl. 369-45.000.

Kawamura, Keichi, to Fuji Photo Film Co., Ltd. Compensation circuit for pulse signals. 4,694,256, 9-15-87, Cl. 328-120.000.

Kawamura, Ken: *See*—
  Shirai, Koji; and Kawamura, Ken, 4,707,720, Cl. 357-53.000.

Kawamura, Kichinari: *See*—
  Okado, Hideo; Shoji, Hiroshi; Takaya, Haruo; Kawamura, Kichinari; and Yamazaki, Yasuyoshi, 4,636,482, Cl. 502-60.000.

Kawamura, Kimihide; Horiguchi, Shojiro; and Okamoto, Hisao, to Dainichiseika Color & Chemicals Mfg. Co., Ltd. Azo-pigment containing hydroxy naphthoic acid amide and an iminooxoisoindolenine components. 4,638,052, 1-20-87, Cl. 534-575.000.

Kawamura, Kiyomi: *See*—
  Saito, Akinori; Yamada, Masatoshi; Imai, Kenji; Kawamura, Kiyomi; and Kimura, Masanobu, 4,685,432, Cl. 123-276.000.

Kawamura, Kiyoshi: *See*—
  Shiratsuchi, Masami; Kawamura, Kiyoshi; Akashi, Toshihiro; Ishihama, Hiroshi; and Uchida, Yasumi, 4,678,803, Cl. 514-456.000.

Kawamura, Kouichi; Aotani, Yoshimasa; Umehara, Akira; and Horie, Seiji, to Fuji Photo Film Co., Ltd. Photopolymerizable compositions. 4,636,459, 1-13-87, Cl. 430-288.000.

Kawamura, Makoto: *See*—
  Ikeda, Kazuhiko; and Kawamura, Makoto, 4,701,846, Cl. 364-200.000.

Kawamura, Masaharu, to Canon Kabushiki Kaisha. Automatic exposure control device. 4,657,368, 4-14-87, Cl. 354-432.000.

Kawamura, Masaharu; and Arakawa, Kazuhiko, to Canon Kabushiki Kaisha. Information setting device for camera. 4,674,854, 6-23-87, Cl. 354-289.100.

Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, to Canon Kabushiki Kaisha. Camera. 4,679,925, 7-14-87, Cl. 354-173.100.

Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Kiuchi, Masayoshi; and Amano, Kenichiro, to Canon Kabushiki Kaisha. Camera. 4,685,789, 8-11-87, Cl. 354-173.110.

Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, to Canon Kabushiki Kaisha. Motorized drive device for camera. 4,690,532, 9-1-87, Cl. 354-173.110.

Kawamura, Masaharu; and Hiramatsu, Akira, to Canon Kabushiki Kaisha. Auxiliary light source for camera having automatic focusing device. 4,693,582, 9-15-87, Cl. 354-403.000.

Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, to Canon Kabushiki Kaisha. Motorized drive device for camera. 4,697,899, 10-6-87, Cl. 354-173.110.

Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, to Canon Kabushiki Kaisha. Mode setting device for camera. 4,699,487, 10-13-87, Cl. 354-173.100.

Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, to Canon Kabushiki Kaisha. Automatic film loading device for camera. 4,716,428, 12-29-87, Cl. 354-173.110.

Kawamura, Masaharu: *See*—
  Harada, Yoshihito; Kiuchi, Masayoshi; Kobayashi, Ryuichi; and Kawamura, Masaharu, 4,702,585, Cl. 354-410.000.
  Kiuchi, Masayoshi; Harada, Yoshihito; Kobayashi, Ryuichi; and Kawamura, Masaharu, 4,676,624, Cl. 354-410.000.
  Kobayashi, Ryuichi; Akashi, Akira; and Kawamura, Masaharu, 4,636,056, Cl. 354-484.000.
  Ohara, Tsunemasa; Suzuki, Masayuki; Tosaka, Yoichi; Kobayashi, Ryuichi; Harada, Yoshihito; and Kawamura, Masaharu, 4,671,635, Cl. 354-173.100.
  Shinoda, Nobuhiko; Sakurada, Nobuaki; Kawamura, Masaharu; Ito, Tadashi; Ito, Fumio; and Murakami, Hiroyashu, 4,664,496, Cl. 354-420.000.
  Suzuki, Masayuki; and Kawamura, Masaharu, 4,647,169, Cl. 354-173.100.
  Suzuki, Masayuki; Ohara, Tsunemasa; Tosaka, Yoichi; Kobayashi, Ryuichi; Harada, Yoshihito; and Kawamura, Masaharu, 4,659,201, Cl. 354-152.000.
  Suzuki, Masayuki; Ohara, Tsunemasa; Tosaka, Yoichi; Kobayashi, Ryuichi; Harada, Yoshihito; and Kawamura, Masaharu, 4,673,272, Cl. 354-173.110.
  Suzuki, Masayuki; Ohara, Tsunemasa; Tosaka, Yoichi; Kawamura, Masaharu; Harada, Yoshihito; and Kobayashi, Ryuichi, 4,699,488, Cl. 354-173.110.

Kawamura, Masahiko: *See*—
  Yamada, Fumiya; Matsuki, Seiichiro; Kawamura, Masahiko; and Kawamoto, Masashi, 4,710,835, Cl. 360-106.000.

Kawamura, Masahisa: *See*—
  Ohashi, Ryota; Kawamura, Masahisa; and Shibata, Jiro, 4,637,482, Cl. 180-132.000.
  Ohashi, Ryota; Kawamura, Masahisa; and Fujisaki, Koichiro, 4,643,442, Cl. 280-461.00A.

Kawamura, Masao: *See*—
  Fuse, Takahiro; Kawamura, Masao; Yamagishi, Koji; Odachi, Kazuyuki; Ono, Haruo; and Kizaki, Masaharu, 4,642,693, Cl. 358-236.000.
  Yamagishi, Koji; Fuse, Takahiro; Kawamura, Masao; and Matsui, Shinichi, 4,642,694, Cl. 358-236.000.

Kawamura, Masataka; and Kamigaki, Masaharu, to Iwatsu Electric Co., Ltd. Time division multiplex data transfer system and method for telephone switching or like applications. 4,658,397, 4-14-87, Cl. 370-58.000.

Kawamura, Masunori: *See*—
  Ichihashi, Tadashi; Kakizawa, Koichiro; and Kawamura, Masunori, 4,711,542, Cl. 351-221.000.

Kawamura, Mitsuyoshi; and Taniguchi, Masato, to NGK Spark Plug Co., Ltd. Auxiliary combustion chamber. 4,676,207, 6-30-87, Cl. 123-271.000.

Kawamura, Mitsuyoshi: *See*—
  Ishida, Noboru; Kawamura, Mitsuyoshi; and Ishihara, Toshiyuki, 4,674,283, Cl. 60-606.000.
  Taniguchi, Masato; Nishio, Hisaharu; Kawamura, Mitsuyoshi; and Okumura, Toshio, 4,672,933, Cl. 123-270.000.

Kawamura, Naoto; and Dei, Katsuhito, to Canon Kabushiki Kaisha. Color image forming apparatus. 4,660,077, 4-21-87, Cl. 358-75.000.

Kawamura, Naoto, to Canon Kabushiki Kaisha. Image processing apparatus. 4,674,861, 6-23-87, Cl. 355-4.000.

Kawamura, Naoto; and Abe, Shunichi, to Canon Kabushiki Kaisha. Image processing apparatus for discriminating and processing different formats of color image signals. 4,713,684, 12-15-87, Cl. 358-78.000.

Kawamura, Reiki: *See*—
  Hattori, Takemi; and Kawamura, Reiki, 4,679,855, Cl. 297-486.000.
  Hattori, Takemi; and Kawamura, Reiki, 4,697,848, Cl. 297-460.000.

Kawamura, Seiichi, to Suzuki Motor Company Limited. Apparatus for cooling cylinder head of an engine. 4,644,910, 2-24-87, Cl. 123-41.310.

Kawamura, Seijiro: *See*—
  Taki, Masaru; Okada, Hiroshi; Kawamura, Seijiro; Kusumoto, Akio; Morita, Koji; Ikenaga, Takao; Shigematsu, Toshifumi; and Iida, Masami, 4,692,951, Cl. 4-664.000.

Kawamura, Shigeharu: *See*—
  Obata, Yoshiharu; Noji, Takashi; Sugiyama, Masahiro; and Kawamura, Shigeharu, 4,654,558, Cl. 313-372.000.
  Obata, Yoshiharu; Noji, Takashi; Sugiyama, Masahiro; and Kawamura, Shigeharu, 4,670,094, Cl. 156-655.000.

Kawamura, Shinichi: *See*—
  Ooka, Masataka; Kawamura, Shinichi; and Murakami, Yoichi, 4,670,521, Cl. 525-382.000.

Kawamura, Sinobu: *See*—
  Enami, Katsuya; Kawamura, Sinobu; Nagase, Fumio; and Aikawa, Shinichi, 4,709,285, Cl. 360-104.000.

Kawamura, Takao; and Sugimura, Akihiko, to Kyocera Corporation; and Kawamura, Takao. Liquid crystal device having interdigitated electrodes with shade member. 4,645,304, 2-24-87, Cl. 350-336.000.

Kawamura, Takao; Iwano, Hideaki; Miyamoto, Naooki; and Nishiguchi, Yasuo, to Kyocera Corp. Amorphous silicon electrophotographic sensitive member. 4,666,808, 5-19-87, Cl. 430-65.000.

Kawamura, Takao; Iwano, Hideaki; Miyamoto, Naooki; and Nishiguchi, Yasuo, to Kyocera Corporation; and Kawamura, Takao. Electrophotographic sensitive member with amorphous Si barrier layer. 4,675,264, 6-23-87, Cl. 430-65.000.

Kawamura, Takao; Ejima, Keibun; Miyamoto, Naooki; Higuchi, Hisashi; and Nishiguchi, Yasuo, to Kyocera Corporation; and Takao Kawamura. Electrophotographic sensitive member. 4,689,284, 8-25-87, Cl. 430-84.000.

Kawamura, Takao: *See*—
  Nishiguchi, Yasuo, 4,654,285, Cl. 430-69.000.

Kawamura, Takayasu; and Hayashi, Yasuhide, to Kabushiki Kaisha Meidensha. Semiconductor device. 4,667,215, 5-19-87, Cl. 357-38.000.

Kawamura, Takayasu: *See*—
  Hayashi, Yasuhide; and Kawamura, Takayasu, 4,651,188, Cl. 357-38.000.

Kawamura, Toshihide: *See*—
  Sakai, Hirou; and Kawamura, Toshihide, 4,698,730, Cl. 362-311.000.

Kawamura, Toshimi; and Satow, Takashi, to Mitsubishi Denki Kabushiki Kaisha. Superconducting solenoid and method of making same. 4,679,020, 7-7-87, Cl. 335-216.000.

Kawamura, Toshimi; Yamada, Tadatoshi; Hani, Kiyoshi; and Yoshizaki, Kiyoshi, to Mitsubishi Denki Kabushiki Kaisha. Superconducting solenoid having alumina fiber insulator. 4,694,268, 9-15-87, Cl. 335-216.000.

Kawamura, Yasuo: *See*—
  Yamamoto, Tsuyoshi; Okada, Nobuhide; and Kawamura, Yasuo, 4,703,393, Cl. 361-405.000.

Kawamura, Yasutaro: *See*—
  Uzaki, Nagato; Itoh, Shigeru; Kanayama, Ryoji; Harada, Hisashi; and Kawamura, Yasutaro, 4,633,928, Cl. 164-19.000.

Kawamura, Yoshihisa; and Fukuzumi, Shuzo, to Nissan Motor Co., Ltd. System for controlling an ignition timing in an internal combustion engine and method therefor. 4,640,249, 2-3-87, Cl. 123-425.000.

Kawamura, Yoshihisa: *See*—
- Asano, Masaharu; Kawamura, Yoshihisa; and Nakamura, Koyo, 4,672,566, Cl. 364-571.000.
- Chubachi, Ryoji; Kawamura, Yoshihisa; and Somezawa, Masashi, 4,654,260, Cl. 428-328.000.
- Etoh, Yukihiro; Sugihara, Kunihiko; Shioyama, Giichi; Tanaka, Toshiaki; and Kawamura, Yoshihisa, 4,676,209, Cl. 123-293.000.
- Shioyama, Giichi; Sugihara, Kunihiko; Etoh, Yukihiro; Tanaka, Toshiaki; and Kawamura, Yoshihisa, 4,662,330, Cl. 123-269.000.
- Takase, Sadao; Kawamura, Yoshihisa; and Nakagawa, Toyoaki, 4,669,440, Cl. 123-494.000.

Kawamura, Yoshikazu; Hosokawa, Minoru; Okazaki, Sakiho; and Ishii, Hiroshi, to Seiko Epson Corporation. Step motor control mechanism for electronic timepiece. 4,715,725, 12-29-87, Cl. 368-157.000.

Kawamura, Yoshimi: *See*—
- Kondo, Eiji; Kawamura, Yoshimi; Konishi, Takao; Matsumoto, Koichi; and Shoji, Junichi, 4,647,693, Cl. 562-439.000.

Kawamura, Youji: *See*—
- Onuma, Eiichi; Kawamura, Youji; Obana, Hiroshi; Aizawa, Takemi; Tamai, Motomi; Inagaki, Tsuguya; and Tokita, Minoru, 4,691,869, Cl. 241-34.000.

Kawamura, Yuji: *See*—
- Nagao, Teruyuki; Kawamura, Yuji; and Kashima, Koichi, 4,696,340, Cl. 165-58.000.

Kawana, Shigeyuki, to Casio Computer Co., Ltd. Identification card and authentication system therefor. 4,697,072, 9-29-87, Cl. 235-380.000.

Kawana, Takahiro; and Yokoyama, Norio to Sony Corporation. Magnetic recording medium. 4,696,862, 9-29-37, Cl. 428-336.000.

Kawanabe, Tetsuya, to Canon Kabushiki Kaisha. Timer apparatus. 4,712,072, 12-8-87, Cl. 328-130.100.

Kawanabe, Tomohiko; Shiina, Takanori; Asakura, Masahiko; and Kimura, Katsuhiko, to Honda Giken Kogyo Kabushiki Kaisha. Air intake side secondary air supply system for an internal combustion engine equipped with a fuel increment control system. 4,649,882, 3-17-87, Cl. 123-438.000.

Kawanabe, Tomohiko; Asakura, Masahiko; Muroya, Minoru; Kimura, Katsuhiko; Kushida, Noritaka; and Hasebe, Hiroshi, to Honda Giken Kogyo Kabushiki Kaisha. Device for sensing an oxygen concentration in gaseous body with a pump current supply circuit and an air/fuel ratio control system using an oxygen concentration sensing device. 4,665,874, 5-19-87, Cl. 123-440.000.

Kawanabe, Tomohiko; Asakura, Masahiko; Shiina, Takanori; Matsumoto, Yukihiro; and Muroya, Minoru, to Honda Giken Kogyo Kabushiki Kaisha. Air intake side secondary air supply system for an internal combustion engine with a duty ratio control operation. 4,690,121, 9-1-87, Cl. 123-589.000.

Kawanabe, Tomohiko; Asakura, Masahiko; Kushida, Noritaka; Shiina, Takanori; and Muroya, Minoru, to Honda Giken Kogyo Kabushiki Kaisha. Air intake side secondary air supply system for an internal combustion engine with a duty ratio control operation. 4,705,012, 11-10-87, Cl. 123-589.000.

Kawanabe, Tomohiko; Kushida, Noritaka; Asakura, Masahiko; and Seki, Yasunari, to Honda Giken Kogyo Kabushiki Kaisha. Air intake side secondary air supply system for an internal combustion engine with a duty ratio control operation. 4,715,350, 12-29-87, Cl. 123-587.000.

Kawanabe, Tomohiko; Asakura, Masahiko; Kushida, Noritaka; and Kimura, Katsuhiko, to Honda Giken Kogyo Kabushiki Kaisha. Air intake side secondary air supply system for an internal combustion engine with a duty ratio control operation. 4,715,352, 12-29-87, Cl. 123-589.000.

Kawanabe, Tomohiko: *See*—
- Asakura, Masahiko; Kawanabe, Tomohiko; Ueda, Masahiro; Kubota, Shinichi; Kushida, Noritaka; and Matsumoto, Yukihiro, 4,694,803, Cl. 123-440.000.
- Asakura, Masahiko; Kawanabe, Tomohiko; Kushida, Noritaka; and Hasebe, Hiroshi, 4,706,637, Cl. 123-589.000.

Kawanabe, Tsuyoshi, to Canon Kabushiki Kaisha. Electronic computer with aural output. 4,641,258, 2-3-87, Cl. 364-710.000.

Kawanaka, Yoshikazu: *See*—
- Nakayama, Mitsuhisa; and Kawanaka, Yoshikazu, 4,653,037, Cl. 369-38.000.

Kawanami, Kiyomiki: *See*—
- Miyazaki, Yuji; Nishijima, Akio; and Kawanami, Kiyomiki, 4,664,900, Cl. 423-447.300.

Kawanami, Norihide: *See*—
- Mitani, Ikujirou; Kawanami, Norihide; and Kobayashi, Fumio, 4,678,261, Cl. 439-582.000.

Kawanami, Takao: *See*—
- Koyama, Toshihiro; Watanabe, Takahiro; Shiozaki, Hiroyuki; Kawanami, Takao; Takahashi, Hideo; Shiraishi, Toshiyuki; and Okudaira, Ken, 4,665,729, Cl. 72-8.000.
- Yoshiwara, Seishiro; and Kawanami, Takao, 4,638,939, Cl. 228-186.000.

Kawanami, Yoshimi: *See*—
- Ishitani, Tohru; Todokoro, Hideo; Kawanami, Yoshimi; and Tamura, Hifumi, 4,710,632, Cl. 250-396.00R.

Kawane, Minoru, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Device for forcing piston ring radially outwardly. 4,637,617, 1-20-87, Cl. 277-150.000.

Kawanishi, Toshio: *See*—
- Tamura, Takaaki; Fujita, Norihiko; Kawanishi, Toshio; and Matsuura, Chihiro, 4,652,537, Cl. 502-5.000.

Kawanishi, Toshiyuki: *See*—
- Shimada, Masaru; Kawanishi, Toshiyuki; Murakami, Kakuji; Aruga, Tamotsu; Uemura, Hiroyuki; and Nagai, Kiyofumi, 4,647,310, Cl. 106-22.000.
- Shimada, Masaru; Kawanishi, Toshiyuki; Murakami, Kakuji; Aruga, Tamotsu; Uemura, Hiroyuki; and Nagai, Kiyofumi, 4,711,668, Cl. 106-22.000.
- Shimada, Masaru; Kawanishi, Toshiyuki; Murakami, Kakuji; Aruga, Tamotsu; and Uemura, Hiroyuki, 4,713,113, Cl. 106-22.000.

Kawanishi, Tsuneaki; Mori, Yasuki; Noguchi, Koji; and Iimura, Tsutomu, to Hitachi Metals, Ltd., and Hitachi, Ltd. Electrophotographic process with magnetic brush development using semiconductive ferrite carriers. 4,640,880, 2-3-87, Cl. 430-106.600.

Kawanishi, Tsuneaki: *See*—
- Shimizu, Ryuichi; Mori, Yasuki; Kawanishi, Tsuneaki; Isou, Osamu; Morishita, Hirosada; and Hosoda, Tooru, 4,680,058, Cl. 106-23.000.

Kawano, Akio, to Honda Giken Kogyo Kabushiki Kaisha. Frameless motorcycle. 4,700,799, 10-20-87, Cl. 180-219.000.

Kawano, Akio, to Honda Giken Kogyo Kabushiki Kaisha. Built-up wheel for vehicles. 4,702,527, 10-27-87, Cl. 301-9.0DN.

Kawano, Akio: *See*—
- Kawaguchi, Takeshi; and Kawano, Akio, 4,712,638, Cl. 180-219.000.

Kawano, Hideo; and Sakuma, Isamu, to NEC Corporation. Buried-type semiconductor laser. 4,644,551, 2-17-87, Cl. 372-45.000.

Kawano, Hiroshige, to Nakamura Koki Co., Ltd. Bladder type fluid accumulator for hydraulic system. 4,714,093, 12-22-87, Cl. 138-30.000.

Kawano, Hirosi: *See*—
- Koebisu, Mamoru; Nishioka, Takeshi; Kamijyukkoku, Nario; and Kawano, Hirosi, 4,663,362, Cl. 521-134.000.
- Koebisu, Mamoru; Nishioka, Takeshi; Kamijyukkoku, Nario; and Kawano, Hirosi, 4,701,472, Cl. 521-50.500.

Kawano, Junichi: *See*—
- Takaishi, Naotake; Urata, Kouichi; Inamoto, Yoshiaki; Tsutsumi, Hisao; and Kawano, Junichi, 4,634,719, Cl. 514-772.000.

Kawano, Katsumi: *See*—
- Kosaka, Michitaka; Mohri, Satoshi; Kawano, Katsumi; Sasaki, Toshiro; Miyamoto, Shoji; and Nakajima, Takashi, 4,658,361, Cl. 364-434.000.
- Kosaka, Michitaka; Kawano, Katsumi; and Miyamoto, Shoji, 4,713,768, Cl. 364-460.000.
- Sasaki, Toshiro; Kosaka, Michitaka; Mohri, Satoshi; Kawano, Katsumi; and Miyamoto, Shoji, 4,680,718, Cl. 364-455.000.

Kawano, Kazuhiro: *See*—
- Moriyama, Masao; Ohta, Masahiro; Yagi, Toshiaki; and Kawano, Kazuhiro, 4,702,257, Cl. 128-653.000.

Kawano, Ken; Sibata, Takuo; and Kouketu, Kouiti, to Toyota Jidosha Kabushiki Kaisha. Lubrication device in transmissions. 4,644,815, 2-24-87, Cl. 74-467.000.

Kawano, Kiyoshi: *See*—
- Morisawa, Tahei; and Kawano, Kiyoshi, 4,651,233, Cl. 360-35.100.

Kawano, Mikio: *See*—
- Nakashima, Tadao; Shimizu, Masataka; and Kawano, Mikio, 4,657,875, Cl. 501-39.000.

Kawano, Minori, to Mitsubishi Denki Kabushiki Kaisha. Coaxial line shape resonator with high dielectric constant. 4,675,632, 6-23-87, Cl. 333-222.000.

Kawano, Minoru. Cell enhancer for cellular radio telephone system having diversity function. 4,704,733, 11-3-87, Cl. 455-16.000.

Kawano, Mitsumo, to Kabushiki Kaisha Toshiba. Automatic phase control circuit. 4,684,901, 8-4-87, Cl. 331-25.000.

Kawano, Susumu; and Shimojima, Masanori, to U.S. Amada Limited. Shearing machine. 4,674,378, 6-23-87, Cl. 83-368.000.

Kawano, Tadaaki, to Sharp Kabushiki Kaisha. Electrophotographic copying machine for displaying the size of copy and copy paper. 4,666,289, 5-19-87, Cl. 355-14.00R.

Kawano, Takumi, to Kasasumi Laboratories, Inc. Hollow fiber device for removing waste material in the blood and a process of manufacture thereof. 4,666,543, 5-19-87, Cl. 156-169.000.

Kawano, Takuro: *See*—
- Tajima, Fumio; Katayama, Hiroshi; Miyashita, Kunio; Tamura, Teizo; Hironaka, Kenichi; Kawano, Takuro; Sekita, Yosimi; Saito, Kouichi; and Tamura, Akira, 4,672,253, Cl. 310-269.000.

Kawano, Tetsuo: *See*—
- Monma, Hideo; Ishiguro, Masato; and Kawano, Tetsuo, 4,692,783, Cl. 357-42.000.

Kawano, Tsuyoshi; Sanagi, Shiroh; and Nakajima, Koe, to Nippon Steel Corporation. Cold rolled steel sheet having excellent pres formability and method for producing the same. 4,678,522, 7-7-87, Cl. 148-12.00C.

Kawarabashi, Tsukasa, to Murata Kikai Kabushiki Kaisha. Bobbin transporting apparatus. 4,660,367, 4-28-87, Cl. 57-274.000.

Kawarabayashi, Hideaki: *See*—
- Kanno, Haruki; Tsuyoshi, Hidekazu; Nishinakagawa, Kou; Hara, Makoto; Mochida, Tetsuo; Hisaka, Tsugio; Miyaki, Munekazu; Kawarada, Minoru; and Kawarabayashi, Hideaki, 4,643,617, Cl. 405-222.000.

Kawarabayashi, Shigeyuki, to Horiba Ltd. Control system for a chassi dynamometer. 4,656,576, 4-7-87, Cl. 364-148.000.

Kawarada, Minoru: *See*—
- Kanno, Haruki; Tsuyoshi, Hidekazu; Nishinakagawa, Kou; Hara, Makoto; Mochida, Tetsuo; Hisaka, Tsugio; Miyaki, Munekazu

- Kawarada, Minoru; and Kawarabayashi, Hideaki, 4,643,617, Cl. 405-222.000.

Kawasaki, Akihiko: *See*—
- Negi, Taichi; Kawasaki, Akihiko; and Ikari, Kyoichiro, 4,645,695, Cl. 428-35.000.

Kawasaki, Akihisa; Tada, Kohji; Kotani, Toshihiro; and Miyazawa, Shintaro, to Sumitomo Electric Industries, Ltd., and Nippon Telegraph and Telephone Public Corp. Single crystal article. 4,684,515, 8-4-87, Cl. 423-495.000.

Kawasaki, Atsushi: *See*—
- Boer, Willem D.; and Kawasaki, Atsushi, 4,678,542, Cl. 156-659.100.

Kawasaki, Glenn: *See*—
- Insley, Margaret Y.; and Kawasaki, Glenn, 4,711,848, Cl. 435-91.000.

Kawasaki, Haruo: *See*—
- Nakamura, Masao; Takeda, Hideo; Yukawa, Toshihide; and Kawasaki, Haruo, 4,670,568, Cl. 549-253.000.

Kawasaki, Hiroaki; and Kanetsuna, Nobumitsu, to Futaba Denshi Kogyo Kabushiki Kaisha. Analog display device. 4,688,029, 8-18-87, Cl. 340-754.000.

Kawasaki, Hiroshi: *See*—
- Kishida, Kazuo; Kawasaki, Hiroshi; and Shigemitsu, Hideyuki, 4,665,125, Cl. 525-67.000.
- Mukunoki, Yasuo; Yokoyama, Shigeki; Kawasaki, Hiroshi; Nemori, Ryoichi; and Takeuchi, Tetsuo, 4,649,102, Cl. 430-527.000.

Kawasaki, Hiroyoshi: *See*—
- Kikuchi, Hiroshi; Teshima, Minoru; Ishimizu, Hideaki; and Kawasaki, Hiroyoshi, 4,645,277, Cl. 339-17.0LM.

Kawasaki, Hitoshi: *See*—
- Hiramatsu, Minoru; Kawasaki, Hitoshi; and Kusano, Fumio, 4,655,882, Cl. 204-16.000.

Kawasaki Jukogyo Kabushiki Kaisha: *See*—
- Atsuta, Toshio; and Yamada, Takeshi, 4,699,309, Cl. 228-116.000.
- Doi, Yoshiki; Inabe, Mitsuo; and Noro, Osamu, 4,683,723, Cl. 62-6.000.
- Fujikawa, Tetsuzo; Yamaguchi, Yooichi; and Ueda, Yoshiteru, 4,647,835, Cl. 322-1.000.
- Fujikawa, Tetsuzo; Hirata, Makizo; and Tamba, Shinichi, 4,658,767, Cl. 123-52.0MV.
- Fujikawa, Tetsuzo; Hirata, Makizo; and Tamba, Shinichi, 4,682,573, Cl. 123-90.200.
- Fujikawa, Tetsuzo; Hirata, Makizo; and Tamba, Shinichi, 4,683,847, Cl. 123-90.200.
- Fujikawa, Tetsuzo; Hirata, Makizo; Tamba, Shinichi; and Fukui, Noboru, 4,697,555, Cl. 123-90.230.
- Fujita, Yoshitada; Hanada, Sadashi; and Yamamoto, Yoshiaki, 4,637,540, Cl. 228-49.200.
- Fujita, Yoshitada; Hanada, Sadashi; Yamamoto, Yoshiaki; and Nakabayashi, Akira, 4,645,412, Cl. 414-786.000.
- Hagiwara, Tatsuo; Imai, Keiji; and Nagaoka, Shigenori, 4,637,562, Cl. 241-259.200.
- Hagiwara, Tatsuo; Imai, Keiji; Nagaoka, Shigenori; Kogumazaka, Shinji; Yahagi, Kyoichi; Imagawa, Takeshi; Ishii, Hidenaga; and Kikuchi, Toshitsugu, 4,645,133, Cl. 241-182.000.
- Hagiwara, Tatsuo; Imai, Keiji; Nagaoka, Shigenori; Kogumazaka, Shinji; Yahagi, Kyoichi; Imagawa, Takeshi; Ishii, Hidenaga; and Kikuchi, Toshitsugu, 4,664,321, Cl. 241-176.000.
- Hashimoto, Isao; Kinoshita, Tosuke; Uchida, Masahiro; and Uchiyama, Susumu, 4,679,739, Cl. 241-121.000.
- Hashimoto, Isao; Kinoshita, Tosuke; Uchida, Masahiro; and Uchiyama, Susumu, 4,684,069, Cl. 241-79.100.
- Imai, Keiji; Nagaoka, Shigenori; Kogumazaka, Shinji; Imagawa, Takeshi; Ishii, Hidenaga; and Kikuchi, Toshitsuga, 4,666,591, Cl. 209-38.000.
- Ishimatsu, Tsutomu, 4,712,636, Cl. 180-198.000.
- Ishizuka, Masashi; and Ogawara, Makoto, 4,678,226, Cl. 296-203.000.
- Itoh, Hayami; and Nagai, Chiaki, 4,657,561, Cl. 44-51.000.
- Kamei, Takao; Ono, Fuminobu; Komai, Keiichi; Wakabayashi, Takeshi; Ogawa, Takayuki; Ito, Hideaki; and Shirakawa, Kiyoshi, 4,702,745, Cl. 44-10.00D.
- Kawahara, Masahiro, 4,703,710, Cl. 114-364.000.
- Matsui, Shigetomo; Nakayama, Shigeru; Okada, Hiroichi; and Sakurai, Takashi, 4,672,163, Cl. 219-74.000.
- Mitadera, Takashi; Shirai, Tetsuaki; Nakagawa, Tomozo; Nii, Naotake; and Watanabe, Kozo, 4,688,529, Cl. 123-196.00R.
- Murase, Masaaki, 4,676,759, Cl. 440-88.000.
- Murase, Masaaki, 4,678,441, Cl. 440-88.000.
- Murase, Masaaki, 4,689,028, Cl. 440-88.000.
- Murata, Nobuyoshi; and Ogino, Toru, 4,656,981, Cl. 123-192.00B.
- Murata, Toyo-o; Narita, Hiroshi; Shigeyama, Yukinori; and Nishikawa, Mazumi, 4,688,772, Cl. 266-158.000.
- Nakano, Hideaki; and Ozu, Tadahiro, 4,635,596, Cl. 123-197.0AB.
- Nakano, Hideaki; and Ozu, Tadahiro, 4,640,236, Cl. 123-41.790.
- Nakaoji, Kazuhiko; Kamao, Mitsugu; Itoh, Hayami; Tatsumi, Shuhei; and Takao, Shoichi, 4,706,891, Cl. 241-16.000.
- Niina, Jiro, 4,644,891, Cl. 114-201.00R.
- Nishida, Hiroshi, 4,634,392, Cl. 440-88.000.
- Nishida, Hiroshi, 4,635,580, Cl. 114-343.000.
- Nishida, Hiroshi, 4,635,582, Cl. 114-360.000.
- Nishida, Hiroshi, 4,643,685, Cl. 440-42.000.
- Nishida, Hiroshi, 4,651,683, Cl. 123-41.150.
- Nishida, Hiroshi, 4,664,054, Cl. 114-270.000.
- Nishida, Hiroshi, 4,667,619, Cl. 114-361.000.
- Nishida, Hiroshi; and Inoue, Takemi, 4,677,872, Cl. 74-551.900.
- Nishida, Hiroshi; and Yazaki, Mitsuhiro, 4,678,442, Cl. 440-89.000.
- Nishida, Hiroshi, 4,679,522, Cl. 114-357.000.
- Nishida, Hiroshi, 4,681,058, Cl. 114-271.000.
- Nishida, Hiroshi, 4,683,829, Cl. 114-125.000.
- Nishida, Hiroshi, 4,688,508, Cl. 114-362.000.
- Nishida, Hiroshi, 4,688,509, Cl. 114-363.000.
- Nishida, Hiroshi, 4,700,650, Cl. 114-125.000.
- Niwa, Yoshiyuki; Kashiwagi, Masahiro; Yasue, Masahiro; Bandoh, Shunichi; Kakinuma, Asao; and Wakatsuki, Tadashi, 4,676,720, Cl. 416-134.00A.
- Ogawa, Takayuki; Ito, Hideaki; Kimura, Naokazu; Ito, Hayami; Tatsumi, Shuhei; Takao, Shoichi; Suzuki, Nitaro; Watanabe, Takashi; Shinano, Kunizo; Kuwabara, Takashi; and Aoki, Kaoru, 4,712,742, Cl. 241-20.000.
- Ozu, Tadahiro; Nakayama, Nobuyoshi; and Fujii, Tatsuo, 4,687,136, Cl. 239-8.00X.
- Sagawa, Ryuichi; Nagata, Osamu; and Yamada, Hajime, 4,715,339, Cl. 123-357.000.
- Shirai, Tetsuaki, 4,672,922, Cl. 123-41.660.
- Soma, Hiroshi; Hashimoto, Isao; Kinoshita, Tosuke; Uchida, Masahiro; and Uchiyama, Susumu, 4,643,366, Cl. 241-117.000.
- Takada, Toshiyuki; Fukui, Noboru; and Shimizu, Akihito, 4,707,986, Cl. 60-310.000.
- Tamba, Shinichi; Miyake, Hitomi; and Fukui, Noboru, 4,662,322, Cl. 123-41.860.
- Tamba, Shinichi; Miyake, Hitomi; Fukui, Noboru; and Miguchi, Akio, 4,681,067, Cl. 123-41.100.
- Tamba, Shinichi; and Ueki, Noriyuki, 4,697,557, Cl. 123-319.000.
- Tamba, Shinichi; Fukui, Noboru; and Miguchi, Akio, 4,703,723, Cl. 123-182.000.
- Taniguchi, Akira; Ojio, Kuniji; Yamamoto, Tatsuya; and Sana, Toshikazu, 4,708,761, Cl. 156-516.000.
- Togashi, Toshio, 4,638,880, Cl. 180-219.000.
- Tsugaki, Shoichiro; Miyasaka, Tomoo; Nishiyama, Yukio; and Atsuta, Toshio, 4,667,543, Cl. 76-108.00A.
- Watanabe, Katumi, 4,708,671, Cl. 440-41.000.
- Yamashita, Masanobu; Takada, Hiroshi; Inoue, Takemi; and Yamauchi, Suguru, 4,651,687, Cl. 123-182.000.
- Yanagiuchi, Noboru; Adachi, Shigeo; Inoue, Masatoshi; Takata, Hiroshi; and Matsuda, Toyoshi, 4,637,270, Cl. 74-336.500.
- Yazaki, Mitsuhiro, 4,680,575, Cl. 340-624.000.
- Yoshida, Toru; Murata, Toyo-o; and Suga, Noriaki, 4,669,706, Cl. 266-44.000.

Kawasaki, Katsuhiro, to Toho Yogyo Kabushiki Kaisha. Ring grinding tool. 4,707,950, 11-24-87, Cl. 51-401.000.

Kawasaki, Katsuhiro, to Hitachi, Ltd. Electron beam lithography. 4,710,640, 12-1-87, Cl. 250-492.200.

Kawasaki, Katsuyoshi, to Honda Giken Kogyo Kabushiki Kaisha. Front cover for small-sized vehicles. 4,697,842, 10-6-87, Cl. 296-78.100.

Kawasaki, Kazuhiro; and Muranaka, Akio, to Honda Giken Kogyo Kabushiki Kaisha. Helmet. 4,700,411, 10-20-87, Cl. 2-425.000.

Kawasaki, Kazuhisa; Ujino, Yoshiyuki; Tsuji, Takahisa; and Saeki, Tsuneo, to Matsushita Electric Industrial Co., Ltd. Steam iron with steam surge generation capability. 4,656,763, 4-14-87, Cl. 38-77.830.

Kawasaki, Kazuyuki: *See*—
- Tsuruda, Mineo; Oe, Takanori; Kawasaki, Kazuyuki; Mikashima, Hiroshi; and Yasuda, Hiroshi, 4,661,603, Cl. 548-346.000.

Kawasaki, Keiichi: *See*—
- Takahashi, Kazuhisa; Kawasaki, Keiichi; and Itoh, Yuji, 4,698,648, Cl. 346-108.000.

Kawasaki, Keiji, to NGK Insulators, Ltd. Method and device for spin-testing of turbocharger rotor. 4,694,689, 9-22-87, Cl. 73-118.100.

Kawasaki, Kenzo, to Nippon Gakki Seizo Kabushiki Kaisha. Valve unit for a brass musical instrument. 4,685,372, 8-11-87, Cl. 84-392.000.

Kawasaki, Kikuo: *See*—
- Fukuhara, Masanori; and Kawasaki, Kikuo, 4,672,611, Cl. 371-59.000.

Kawasaki, Kiyohito, to Bridgestone Corporation. Radial tire with reinforcing steel cord. 4,690,191, 9-1-87, Cl. 152-527.000.

Kawasaki, Kiyohito; Sato, Michitaka; Koseki, Hiroyuki; and Matsunuma, Tamotsu, to Bridgestone Corporation. Large-size pneumatic radial tire for use on rough road with belt having specified cord. 4,715,419, 12-29-87, Cl. 152-527.000.

Kawasaki, Masahiro: *See*—
- Fukui, Yoshio; Yamato, Masatoshi; Umeda, Naoki; and Kawasaki, Masahiro, 4,647,412, Cl. 260-410.600.

Kawasaki, Masami; and Naito, Masayuki, to Olympus Optical Co., Ltd. Microscope provided with an automatically controlled illuminating optical system. 4,643,540, 2-17-87, Cl. 350-502.000.

Kawasaki, Masami, to Olympus Optical Co., Ltd. Microscope provided with automatic focusing device having memory means. 4,661,692, 4-28-87, Cl. 250-201.000.

Kawasaki, Masami: *See*—
- Nakasato, Kanae; Naito, Masayuki; and Kawasaki, Masami, 4,653,878, Cl. 350-520.000.

Kawasaki, Ryoji; Yoshizawa, Kazuhiro; Yotsutani, Akio; Saegusa, Noboru; Ito, Koichi; and Huse, Syozi, to Nippon Telegraph & Telephone Public Corporation; NEC Corporation; and Kabushiki Kaisha Toshiba. Method of transmitting terminating call signals within a restricted duration and a base station and a portable unit for use in the same. 4,679,244, 7-7-87, Cl. 455-54.000.

Kawasaki, Satoshi: *See*—
- Namiki, Yasuomi; and Kawasaki, Satoshi, 4,673,991, Cl. 360-14.100.

- Kawasaki Steel Corporation: *See*—
  - Arimitsu, Hiroshi; Hatano, Kiyoshi; Nakanishi, Teruyuki; Yoshimura, Yoshio; Urabe, Masaki; and Honda, Tsurakazu, 4,697,179, Cl. 340-825.720.
  - Asano, Yuichiro; Kono, Yoshihisa; Yanagimoto, Takayuki; Shiozumi, Motoji; Takahashi, Kunio; Torao, Akira; Moriya, Susumu; and Momose, Atsushi, 4,708,882, Cl. 427-1.000.
  - Dearden, Geoffrey C.; Speare, Edward J.; Ueno, Katsuo; and Jones, Donald N., 4,673,201, Cl. 285-333.000.
  - Fukuda, Noriyoshi; and Nagasawa, Ken, 4,637,906, Cl. 264-29.100.
  - Funahashi, Yoshiko; Kamino, Yoshikazu; Matsumura, Yasuharu; and Harimaya, Senichi, 4,643,978, Cl. 436-78.000.
  - Funahashi, Yoshiko; Matsumura, Yasuharu; Harimaya, Senichi; Kamino, Yoshikazu; and Kitaoka, Hidenari, 4,643,979, Cl. 436-78.000.
  - Funahashi, Yoshiko; Kamino, Yoshikazu; Matsumura, Yasuharu; and Harimaya, Senichi, 4,681,857, Cl. 436-78.000.
  - Funahashi, Yoshiko; Kamino, Yoshikazu; Matsumura, Yasuharu; and Harimaya, Senichi, 4,696,795, Cl. 422-56.000.
  - Funahashi, Yoshiko; Kamino, Yoshikazu; Matsumura, Yasuharu; and Harimaya, Senichi, 4,696,906, Cl. 436-78.000.
  - Harada, Saburo; Yoshino, Takao; Takeshima, Rikio; Sengan, Masakazu; and Kissei, Kyoichi, 4,669,939, Cl. 414-173.000.
  - Iida, Sachihiro, 4,713,125, Cl. 148-128.000.
  - Iida, Yoshiaki; and Iwamoto, Katsuo, 4,642,141, Cl. 148-113.000.
  - Inokuchi, Yukio; Ikeda, Shigeko; and Ito, Yoh, 4,702,780, Cl. 148-111.000.
  - Inokuti, Yukio; Ikeda, Shigeko; Funahashi, Toshihiko; and Ito, Yo, 4,690,855, Cl. 428-209.000.
  - Inokuti, Yukio; and Ito, Yo, 4,698,272, Cl. 428-627.000.
  - Inokuti, Yukio; Ito, Yoh; and Funahashi, Toshihiko, 4,713,123, Cl. 148-113.000.
  - Irie, Toshio; Kyono, Kazuaki; Kimura, Hajime; and Kurokawa, Shigeo, 4,640,872, Cl. 428-659.000.
  - Ishii, Kouichi; Mizugami, Susumu; Tabuchi, Mamoru; Nakamura, Masayuki; Baba, Toshihiko; and Ritoh, Naotake, 4,672,165, Cl. 219-97.000.
  - Ishizaka, Kunihiko; Sudo, Fumio; Seki, Akira; and Aso, Yoshio, 4,655,831, Cl. 75-257.000.
  - Makihara, Katsumi; Yanagi, Kenichi; Fukushima, Takeo; Suganuma, Namio; Samejima, Ichiro; and Takahashi, Seichi, 4,638,851, Cl. 165-32.000.
  - Mizota, Hisakazu; Kojima, Shinji; Kodama, Masanori; and Miyazaki, Yasuharu, 4,649,985, Cl. 164-468.000.
  - Mizota, Hisakazu; and Kojima, Shinji, 4,706,735, Cl. 164-504.000.
  - Monno, Asao; Watanabe, Kiyoo; and Kaneko, Kazuyuki, 4,695,729, Cl. 250-358.100.
  - Morita, Masahiko; and Hashimoto, Osamu, 4,648,916, Cl. 148-128.000.
  - Morita, Masahiko; Hashimoto, Osamu; and Tanaka, Tomoo, 4,686,471, Cl. 324-243.000.
  - Murakawa, Shigemi; Taguchi, Seiji; Nomura, Makoto; Takabe, Ryoji; Iwashita, Yoshiharu; and Ishii, Masahiro, 4,697,453, Cl. 73-290.00R.
  - Nakato, Hakaru; Bessho, Nagayasu; Nozaki, Tsutomu; Habu, Yasuhiro; and Kimura, Tomoaki, 4,635,703, Cl. 164-443.000.
  - Nakato, Hakaru; Nozaki, Tsutomu; Kinoshita, Katsuo; Habu, Yasuhiro; Ohnuma, Hiroaki; Ohmiya, Shigeru; and Kimura, Tomoaki, 4,673,024, Cl. 164-431.000.
  - Narutani, Tetsu; and Suzuki, Shigeharu, 4,690,798, Cl. 420-61.000.
  - Nishiike, Ujihiro; Komatsubara, Michiro; Iida, Yoshiaki; and Matoba, Isao, 4,655,854, Cl. 148-111.000.
  - Ogata, Hajime; Nakakouji, Hisatada; Akeda, Yasuhiro; Ichida, Toshio; Irie, Toshio; and Otsuka, Sachiko, 4,687,713, Cl. 428-628.000.
  - Ohta, Norio; Yanagishima, Fumiya; Kaihara, Toshikazu; Kishida, Akira; Sato, Kuniaki; and Ochiai, Masanobu, 4,713,154, Cl. 204-145.00R.
  - Ohtani, Teruo; Tamura, Toshihisa; Ikeda, Yuji; Araikawa, Mutsuya; and Kywata, Kazuyoshi, 4,696,635, Cl. 425-330.000.
  - Okuda, Shuji; Shimomura, Hideo; Honda, Kusuo; Kawaguchi, Masato; Kuno, Yasuo; Kumagai, Takenori; and Kato, Nobuo, 4,697,397, Cl. 52-223.00R.
  - Oyama, Akihiro; Funyu, Yutaka; and Sakurada, Kazuyuki, 4,682,182, Cl. 346-1.100.
  - Satoh, Susumu; Matsuoka, Saiji; Obara, Takashi; Tsunoyama, Kozo; and Irie, Toshio, 4,676,844, Cl. 148-12.00C.
  - Satoh, Susumu; Suzuki, Hideo; Obara, Takashi; Nishida, Minoru; and Hashimoto, Osamu, 4,708,748, Cl. 148-2.000.
  - Shinozaki, Masatoshi; Matsumoto, Yoshihiro; Aoyagi, Yoshiki; and Kojima, Kazuhisa, 4,678,707, Cl. 428-323.000.
  - Takajo, Shigeaki, 4,643,765, Cl. 75-0.50B.
  - Takei, Masamitsu; and Shoji, Shigeo, 4,635,433, Cl. 57-223.000.
  - Tanimoto, Wataru; and Tsunoyama, Kouzou, 4,645,342, Cl. 356-318.000.
  - Tosaka, Akio; Hashiguchi, Koichi; Morita, Masahiko; and Okano, Shinobu, 4,709,557, Cl. 62-373.000.
  - Tsunoyama, Kouzou; Tanimoto, Wataru; Ohashi, Yoshiharu; Kimura, Shigeyuki; and Asakawa, Fumio, 4,652,128, Cl. 356-318.000.
  - Tsunoyama, Kouzou; Ohashi, Yoshiharu; Furunushi, Yasuko; and Konishi, Motoyuki, 4,690,558, Cl. 356-318.000.
  - Umino, Shigeru; Yamato, Koji; Kimura, Hajime; and Ichida, Toshio, 4,650,724, Cl. 428-659.000.
  - Umino, Shigeru; Yamato, Koji; Kimura, Hajime; and Ichida, Toshio, 4,702,802, Cl. 204-28.000.
  - Yanagi, Kenichi; Makihara, Katsumi; Fukushima, Takeo; Hashimoto, Osamu; and Iida, Sachihiro, 4,644,667, Cl. 34-54.000.
  - Yanazawa, Tadaaki; Tanaka, Teruaki; Noda, Akio; Takeda, Ry and Inoue, Masataka, 4,685,320, Cl. 72-250.000.
  - Yarita, Ikuo; Kitahama, Masanori; and Sasaki, Toru, 4,703,64 C 72-247.000.
  - Yasuda, Akira; Ikehira, Junko; Itoh, Kenji; Takasaki, Junsuke; and Tsunoyama, Kozou, 4,670,065, Cl. 148-2.000.
  - Yoshida, Takashi; Kimura, Tomoaki; Nishino, Tadashi; and Sato, Sadayuki, 4,679,611, Cl. 164-431.000.
- Kawasaki, Syousuke: Columnar material cutting machine. 4,676,12 6-30-87, Cl. 82-58.000.
- Kawasaki, Takashi: *See*—
  - Kihara, Yasuo; Mori, Kenjiro; Kawasaki, Takashi; and Uchiyama, Keiichi, 4,666,977, Cl. 524-805.000.
  - Tanji, Hiroaki; Suzuki, Masaharu; Nomura, Kenji; Watanabe, Shojiro; and Kawasaki, Takashi, 4,690,841, Cl. 428-35.000.
- Kawasaki, Takeshi: *See*—
  - Sumada, Koji; and Kawasaki, Takeshi, 4,671,564, Cl. 296-214.000.
- Kawasaki, Tamotsu; Iwasaki, Tadayoshi; Maeda, Takayuki; and Morita, Minoru, to Nippon Sanso Kabushiki Kaisha. Evacuated heat insulation unit and method of manufacturing same. 4,668,551, 5-26-87, Cl. 428-69.000.
- Kawasaki, Tamotsu; Kuwana, Takeshi; and Morita, Minoru, to Nippon Sanso Kabushiki Kaisha. Evacuated heat insulation unit. 4,669,632, 6-2-87, Cl. 220-423.000.
- Kawasaki, Teruo: *See*—
  - Asakuno, Hiroyoshi; Mori, Kinya; Suzuki, Kiyoaki; Nakai, Mamoru; Iwai, Kenji; Tamamushi, Masahiro; and Kawasaki, Teruo, 4,638,030, Cl. 524-536.000.
- Kawasaki Thermal Systems, Inc.: *See*—
  - Stephenson, Edgar O., 4,635,967, Cl. 285-45.000.
  - Stephenson, Edgar O.; and Howe, Raymond C., 4,693,311, Cl. 166-302.000.
- Kawasaki, Tsutomu: *See*—
  - Inoue, Kazuhiko; Kawasaki, Tsutomu; and [illegible], 4,709,281, Cl. 360-97.000.
  - Tsuchiya, Isamu; Kawasaki, Tsutomu; and Sakai, Yoshiaki, 4,694,361, Cl. 360-97.000.
- Kawasaki, Yoshiaki: *See*—
  - Tamano, Michio; and Kawasaki, Yoshiaki, 4,672,735, Cl. 29-564.600.
- Kawasaki Yucoh Co., Ltd.: *See*—
  - Yashima, Tsuneaki, 4,648,823, Cl. 425-150.000.
- Kawasawa, Masao: *See*—
  - Imai, Tatsuhiko; and Kawasawa, Masao, 4,707,110, Cl. 524-281.000.
- Kawase, Akira; and Imamura, Minoru, to Tokyo Gas Co., Ltd. Locating method of and the locating unit for leaks on piping. 4,704,897, 11-10-87, Cl. 73-40.50R.
- Kawase, Katsumi: *See*—
  - Fujita, Kenji; Kawase, Katsumi; and Takigawa, Noboru, 4,654,07 Cl. 134-6.000.
  - Takigawa, Noboru; Fujita, Kenji; Kawase, Katsumi; and Higaki, Takahiro, 4,668,301, Cl. 134-6.000.
- Kawase, Kiyotaka: *See*—
  - Yokota, Yuzo; Noma, Kanji; Kawase, Kiyotaka; [illegible] Hironori; and Kamigaito, Masayuki, 4,680,322, Cl. 523-416.000.
- Kawase, Shigeki: *See*—
  - Suzuki, Takashi; Hibino, Kunio; Murai, Mikio; Kawase, Shigeki; Shinohara, Koichi; and Nouchi, Norimoto, 4,645,703, Cl. 428-141.000.
- Kawase, Shigeo: *See*—
  - Tahara, Yoshiyuki; Nagai, Michiko; Kogure, Katsura; Kawase, Shigeo; and Yamaguchi, Teruhito, 4,642,314, Cl. 514-475.000.
- Kawase, Tadamasa: *See*—
  - Muraoka, Kenichi; Setoguchi, Yoichi; Kawase, Tadamasa; Kawai, Hiroitsu; Komatsu, Hisamoto; and Uchida, Makoto, 4,707,376, Cl. 426-658.000.
- Kawase, Yoshihiro: *See*—
  - Hosoe, Toshiaki; Ando, Seigo; and Kawase, Yoshihiro, 4,716,36 Cl. 324-207.000.
  - Yamada, Takeo; Ando, Seigo; and Kawase, Yoshihiro, 4,647,85 Cl. 324-207.000.
- Kawase, Yukio; and Izuta, Hitoshi, to Toyota Jidosha Kabushiki Kaisha. Structure for connecting front pillar and cowl in vehicle. 4,699,419, 10-13-87, Cl. 296-192.000.
- Kawashima, Akihiro: *See*—
  - Matsumura, Tetsuo; Ohzawa, Toshio; Kawashima, Akihiro; Okuma, Osamu; Sawada, Saburo; Yanai, Shun'ichi; Yoshimura, Hiroshi; and Sugino, Yasuo, 4,714,543, Cl. 208-412.000.
- Kawashima, Chikashi; Ogasawara, Shinji; Tanaka, Isao; and Koga, Yasufumi, to Central Glass Company, Limited. Method of producing shaped body of cross-linked fluorine-containing graft copolymer by using radiation. 4,652,592, 3-24-87, Cl. 522-117.000.
- Kawashima, Giichi, to Sumitomo Bakelite Company Limited. Method of producing permanent magnet. 4,678,616, 7-7-87, Cl. 264-24.000.
- Kawashima, Haruo: *See*—
  - Uchiya, Takao; and Kawashima, Haruo, 4,670,318, Cl. 428-102.000.
- Kawashima, Hatsuo: *See*—
  - Ikegaya, Isao; and Kawashima, Hatsuo, 4,660,795, Cl. 248-430.000.
- Kawashima, Hiromi; and Arakawa, Hideki, to Fujitsu Limited. Delay circuit having delay time period determined by discharging operation. 4,644,182, 2-17-87, Cl. 307-246.000.
- Kawashima, Hiroyuki: *See*—
  - Kita, Hiroyuki; Tokuhara, Masaharu; and Kawashima, Hiroyuki, 4,668,974, Cl. 358-11.000.

Kawashima, Junzo, and Arako, Nobuyuki, to Jantec Co., Ltd. Method of intensifying heat in reversed Rankine cycle and reversed Rankine cycle apparatus for conducting the same. 4,646,524, 3-3-87, Cl. 62-3.000.

Kawashima, Katsuyoshi: *See*—
Kadokawa, Toshiaki; Kawashima, Katsuyoshi; Uno, Hitoshi; and Hino, Katsuhiko, 4,677,107, Cl. 514-254.000.

Kawashima, Katsuyuki, and Inoue, Kotaro, to Hitachi, Ltd. Fast breeder. 4,655,989, 4-7-87, Cl. 376-173.000.

Kawashima, Kazuto: *See*—
Inoue, Michio; and Kawashima, Kazuto, 4,636,307, Cl. 210-188.000.
Yamamori, Hisayoshi; Inoue, Michio; Kawashima, Kazuto; and Tanaka, Hisao, 4,663,227, Cl. 428-315.700.
Yamamori, Hisayoshi; Inoue, Michio; Kawashima, Kazuto; and Tanaka, Hisao, 4,675,213, Cl. 427-244.000.

Kawashima, Kazuyasu: *See*—
Shirato, Kozo; Kawashima, Kazuyasu; and Sato, Yoshihito, 4,651,087, Cl. 324-71.400.
Shirato, Kozo; Hiraizumi, Kazuo; Kobayashi, Masashi; and Kawashima, Kazuyasu, 4,652,364, Cl. 210-87.000.
Shirato, Kozo; Hiraizumi, Kazuo; Kawashima, Kazuyasu; Okuyama, Shinya; Kobayashi, Masashi; Tanaka, Minoru; Takeya, Akira; Yamamoto, Yoshio; Koyama, Yasuo; Shinohara, Satoshi; and Yunoki, Toru, 4,680,552, Cl. 324-439.000.

Kawashima, Kenichi: *See*—
Takao, Kunihiko; Kawashima, Kenichi; Nakamura, Yozo; and Hayase, Isao, 4,636,148, Cl. 417-286.000.
Takao, Kunihiko; Kawashima, Kenichi; and Nakamura, Yozo, 4,653,991, Cl. 418-82.000.
Takao, Kunihiko; Kawashima, Kenichi; Nakamura, Yozo; and Kishi, Atsuo, 4,702,684, Cl. 418-259.000.

Kawashima, Kenji; Asano, Katsuaki; and Taki, Osamu, to Yamaha Hatsudoki Kabushiki Kaisha. Gasoline vapor capture and combustion system. 4,658,795, 4-21-87, Cl. 123-519.000.

Kawashima, Kinji, to Sanyo Electric Co., Ltd. D.C. motors with unequal pole spacing. 4,700,098, 10-13-87, Cl. 310-186.000.

Kawashima, Kiyoshi: *See*—
Bannai, Saburo; and Kawashima, Kiyoshi, 4,674,053, Cl. 364-476.000.

Kawashima, Kouzou: *See*—
Ito, Akira; and Kawashima, Kouzou, 4,672,270, Cl. 315-73.000.
Ito, Akira; Danno, Yuji; and Kawashima, Kouzou, 4,688,422, Cl. 315-74.000.

Kawashima, Kunikazu: *See*—
Fujiwara, Ichinori; Kawashima, Kunikazu; and Tobe, Takashi, deceased, 4,663,709, Cl. 364-200.000.

Kawashima, Machio: *See*—
Takahashi, Koji; and Kawashima, Machio, 4,642,527, Cl. 315-368.000.

Kawashima, Masahiro, to Yamaha Hatsudoki Kabushiki Kaisha. Motorcycle having balloon tire. 4,645,028, 2-24-87, Cl. 180-227.000.

Kawashima, Masahiro: *See*—
Ishino, Katsuya; and Kawashima, Masahiro, 4,667,762, Cl. 180-226.000.

Kawashima, Nobumasa: *See*—
Horikawa, Tokio; Sawai, Mitsuaki; Fujioka, Hisatake; Kawashima, Nobumasa; and Yanagawa, Nobuhide, 4,660,668, Cl. 180-19.100.

Kawashima, Norimichi: *See*—
Schwartz, Anthony M.; Kawashima, Norimichi; and Zettlemoyer, Albert C., 4,693,958, Cl. 430-302.000.

Kawashima, Osamu: *See*—
Takeda, Yoshiyuki; Kawashima, Osamu; Furukawa, Shiro; and Ogino, Yasukazu, 4,704,458, Cl. 546-90.000.
Taniguchi, Masao; Morita, Yoshiharu; Hayakawa, Shuzo; and Kawashima, Osamu, 4,684,732, Cl. 546-144.000.

Kawashima, Sadao; Mori, Yoshikazu; Iwasaki, Masayoshi; and Suzuki, Norio, to Kabushiki Kaisha Kobe Seiko Sho. Method of and apparatus for ultrasonic flaw detection. 4,699,007, 10-13-87, Cl. 73-622.000.

Kawashima, Sosuke; and Ichihashi, Kazuaki, to Hitachi, Ltd. Vacuum processing apparatus. 4,699,554, 10-13-87, Cl. 414-217.000.

Kawashima, Susumu; and Takahashi, Nobuo, to Trio Kabushiki Kaisha. Information producing apparatus. 4,677,258, 6-30-87, Cl. 178-18.000.

Kawashima, Syoichiro, to Fujitsu Limited. Semiconductor memory device typically used as a video ram. 4,644,502, 2-17-87, Cl. 365-219.000.

Kawashima, Syunichiro: *See*—
Yokotani, Yoichiro; Kato, Junichi; Nishida, Masamitsu; Kawashima, Syunichiro; and Ouchi, Hiromu, 4,711,862, Cl. 501-136.000.

Kawashima, Takayoshi: *See*—
Inada, Yasuo; Sato, Koki; Fujii, Takazo; Yokoyama, Hideo; Takahashi, Shoichi; Mizutani, Kiyoshi; Kawashima, Takayoshi; and Nagawa, Akira, 4,664,333, Cl. 242-107.40A.

Kawashima, Takuji: *See*—
Hashimoto, Yoshiyuki; Toida, Tomohiro; Sekine, Kazunori; Sato, Minoru; Kawashima, Takuji; and Kuboyama, Morio, 4,645,667, Cl. 424-92.000.

Kawashima, Tooru: *See*—
Miura, Yoshio; Takayama, Chiharu; Fujishima, Tooru; Oku, Masuo; Kawashima, Tooru; and Kudo, Yoshimichi, 4,669,072, Cl. 369-44.000.

Kawashima, Yoshihiro, to Brother Kogyo Kabushiki Kaisha. Apparatus for insertion of electrode wire in the wire conduit of a lower arm. 4,663,509, 5-5-87, Cl. 219-69.00W.

Kawashima, Yoshinori: *See*—
Suzuki, Takahisa; Kuwahara, Shinichi; and Kawashima, Yoshinori, 4,712,633, Cl. 180-149.000.

Kawashita, Asayoshi, to Hitachi, Ltd. Communication control apparatus. 4,648,132, 3-3-87, Cl. 455-607.000.

Kawasumi Laboratories, Inc.: *See*—
Kawasumi, Shinroku, 4,714,645, Cl. 428-209.000.

Kawasumi, Shinroku, to Mitsubishi Mining & Cement Co., Ltd.; and Kawasumi Laboratories, Inc. Electronic parts and process for the manufacture of the same. 4,714,645, 12-22-87, Cl. 428-209.000.

Kawata, Haruo; and Nishi, Hidetoshi, to Fujitsu Limited. Method of making self-aligned FET using GaAs substrate and spatially controlled implanted channel region. 4,642,879, 2-17-87, Cl. 29-576.00B.

Kawata, Hiroitsu; Aruga, Masayoshi; Ohmura, Tadayoshi; Sonobe, Takashi; Yoneya, Satoru; and Sone, Chiharu, to Yamanouchi Pharmaceutical Co., Ltd. Sustained release pharmaceutical composition of solid medical material. 4,673,564, 6-16-87, Cl. 424-494.000.

Kawata, Hiroitsu: *See*—
Konno, Yutaka; Kawata, Hiroitsu; Aruga, Masayoshi; Sonobe, Takashi; and Mitomi, Mitsuo, 4,637,930, Cl. 424-28.000.
Konno, Yutaka; Kawata, Hiroitsu; Aruga, Masayoshi; Sonobe, Takashi; and Mitomi, Mitsuo, 4,685,911, Cl. 604-897.000.
Muraoka, Kenichi; Senguchi, Yoichi; Kawase, Tadamasa; Kawata, Hiroitsu; Komatsu, Hisamoto; and Uchida, Makoto, 4,707,376, Cl. 426-658.000.

Kawata, Itaru: *See*—
Shirafuji, Tamio; Sakai, Kiyomi; and Kawata, Itaru, 4,670,612, Cl. 568-899.000.
Shirafuji, Tamio; and Kawata, Itaru, 4,691,064, Cl. 568-835.000.

Kawata, Kazuhide, to NEC Corporation. Single chip microcomputer capable of debugging an external program without an increase of the number of terminals/ports. 4,670,838, 6-2-87, Cl. 364-200.000.

Kawata, Keiji: *See*—
Komatsu, Shigeru; and Kawata, Keiji, 4,638,497, Cl. 375-116.000.

Kawata, Ken; Yabuki, Yoshiharu; Sato, Kozo; and Hirai, Hiroyuki, to Fuji Photo Film Co., Ltd. Heat-developable photosensitive material. 4,636,462, 1-13-87, Cl. 430-617.000.

Kawata, Ken; Yabuki, Yoshiharu; Sato, Kozo; and Hirai, Hiroyuki, to Fuji Photo Film Co., Ltd. Heat-developable light-sensitive material. 4,640,892, 2-3-87, Cl. 430-617.000.

Kawata, Ken; Yabuki, Yoshiharu; Sato, Kozo; and Hirai, Hiroyuki, to Fuji Photo Film Co., Ltd. Heat-developable light-sensitive material. 4,647,526, 3-3-87, Cl. 430-353.000.

Kawata, Ken; Yabuki, Yoshiharu; Sato, Kozo; and Hirai, Hiroyuki, to Fuji Photo Film Co., Ltd. Heat developable light-sensitive material. 4,668,615, 5-26-87, Cl. 430-617.000.

Kawata, Ken: *See*—
Hirai, Hiroyuki; and Kawata, Ken, 4,637,902, Cl. 260-545.00R.
Hirai, Hiroyuki; Sato, Kozo; Yabuki, Yoshiharu; and Kawata, Ken, 4,705,737, Cl. 430-203.000.
Sato, Kozo; Yabuki, Yoshiharu; Hirai, Hiroyuki; and Kawata, Ken, 4,659,653, Cl. 430-559.000.
Sato, Kozo; Yabuki, Yoshiharu; Hirai, Hiroyuki; and Kawata, Ken, 4,650,749, Cl. 430-617.000.
Sato, Kozo; Yabuki, Yoshiharu; Hirai, Hiroyuki; and Kawata, Ken, 4,657,848, Cl. 430-617.000.
Yabuki, Yoshiharu; Sato, Kozo; Kawata, Ken; and Hirai, Hiroyuki, 4,639,418, Cl. 430-617.000.
Yabuki, Yoshiharu; Sato, Kozo; Kawata, Ken; and Hirai, Hiroyuki, 4,640,891, Cl. 430-551.000.
Yabuki, Yoshiharu; Sato, Kozo; Kawata, Ken; and Hirai, Hiroyuki, 4,649,103, Cl. 430-570.000.
Yabuki, Yoshiharu; Sato, Kozo; Kawata, Ken; and Hirai, Hiroyuki, 4,716,100, Cl. 430-570.000.

Kawata, Koichi: *See*—
Masaki, Takeshi; Kawata, Koichi; Sakagaito, Yukuo; Yamaguchi, Katsumasa; Kinoshiro, Hiromichi; and Toba, Hiroto, 4,701,591, Cl. 219-121.0LT.
Sakagaito, Yukuo; Yonemochi, Katsutoshi; Kawata, Koichi; and Masaki, Takeshi, 4,691,998, Cl. 350-616.000.

Kawata, Mitsuru: *See*—
Oono, Susumu; and Kawata, Mitsuru, 4,647,329, Cl. 156-245.000.

Kawata, Noboru: *See*—
Takatsu, Kozo; and Kawata, Noboru, 4,657,750, Cl. 423-329.000.

Kawata, Shoji; and Hyodo, Hiroshi, to Aisin Seiki Kabushiki Kaisha and Kabushikikaisha Shinsangyokaihatsu. Control device for vehicle speed. 4,646,861, 3-3-87, Cl. 180-176.000.

Kawata, Shun, to Konishiroku Photo Industry Co., Ltd. Focus adjusting mechanism in exposure optical apparatus. 4,645,335, 2-24-87, Cl. 355-55.000.

Kawata, Shun: *See*—
Kasahara, Seitaro; Sawaki, Akira; and Kawata, Shun, 4,637,707, Cl. 355-3.00R.

Kawata, Tomoshi; and Kusunoki, Kenji, to Kabushiki Kaisha Tokyo Kikai Seisakusho. Offset rotary press. 4,651,641, 3-24-87, Cl. 101-217.000.

Kawata, Toshihiko: *See*—
Numata, Hidetaka; and Kawata, Toshihiko, 4,716,359, Cl. 323-349.000.

Kawata, Yasuhiro: *See*—
Eshima, Yoshinori; and Kawata, Yasuhiro, 4,665,322, Cl. 307-66.000.

Kawata, Yoshihiro: *See*—
Gen, Endo; Saneharu, Tatsu; Hori, Hirokazu; and Kawata, Yoshihiro, 4,671,913, Cl. 264-171.000.

Shimatani, Toshimichi; and Kawata, Yoshihiro, 4,694,470, Cl. 375-37.000.

Kawate, Keith W.: *See*—

Blankenship, Gene E.; Gonsalves, Edward M.; Kawate, Keith W.; Sacarisen, Stephen P.; Giolma, William H.; and Spanjol, Damir A., 4,666,582, Cl. 204-404.000.

Charboneau, Thomas J., and Kawate, Keith W., 4,716,492, Cl. 361-283.000.

Offiler, Stephen B.; Berg, Peter G., and Kawate, Keith W., 4,678,982, Cl. 322-8.000.

Kawate, Kenji: *See*—

Yamaguchi, Hiroshi; Tanaka, Teruaki; Hirai, Masatake; Kohketsu, Tadashi; Matsumoto, Masahiro; and Kawate, Kenji, 4,649,248, Cl. 219-10.570.

Kawate, Yoshio: *See*—

Tojyo, Shigeki; Uesaka, Tatsuo; Kawate, Yoshio; Iwaskai, Masayoshi; Horiuchi, Takefumi; Moritoki, Masato; Kanda, Takeshi; Fujikawa, Takao, and Kofune, Shigeo, 4,666,314, Cl. 374-131.000.

Kawatetsu Mining Co., Ltd.: *See*—

Ishizaka, Kunihiko; Sudo, Fumio; Seki, Akira; and Aso, Yoshio, 4,655,831, Cl. 75-257.000.

Seki, Akira; Narita, Yuuki; Aso, Yoshio; and Nagata, Shunro, 4,676,964, Cl. 423-335.000.

Kawatetsu Wire Products: *See*—

Takei, Masamitsu; and Shoji, Shigeo, 4,635,433, Cl. 57-223.000.

Kawato, Yutaka: *See*—

Hatano, Takashi; Nara, Takashi; Kawato, Yutaka; and Okada, Sumie, 4,698,801, Cl. 370-58.000.

Kawatsu, Hajime, to Ing Shoji Co., Ltd. Articulate bent pipe for transportation of powder and slurry in dry or wet state. 4,653,777, 3-31-87, Cl. 285-16.000.

Kawatsura, Yoshihiro: *See*—

Inuzuka, Tsuneki; Kawatsura, Yoshihiro; and Ishida, Masato, 4,707,111, Cl. 355-8.000.

Kawauchi, Hiroshi; Yamaguchi, Kazuo; and Shirahata, Kunikatsu, to Kyowa Hakko Kogyo Co., Ltd. Fish growth hormone. 4,645,755, 2-24-87, Cl. 514-12.000.

Kawauchi, Hiroshi: *See*—

Kyoto, Michihisa; Ishiguro, Yoichi; Kawauchi, Hiroshi; and Tanaka, Gotaro, 4,655,808, Cl. 65-3.120.

Kawauchi, Kazuyuki: *See*—

Takayama, Yoshihisa; Fujii, Shigeru; Kawauchi, Kazuyuki; and Yoshida, Toshihiko, 4,661,815, Cl. 340-825.860.

Kawauchi, Masataka: *See*—

Saiki, Eisaku, and Kawauchi, Masataka, 4,709,911, Cl. 271-10.000.

Sasaki, Naoya; Kawauchi, Masataka; Fukudome, Yoshio; Takeda, Fumio; Suzuki, Yoichi; Mirubayashi, Toshio; and Utsumi, Itsunori, 4,653,742, Cl. 271-114.000.

Kawauchi, Satsuki: *See*—

Sakane, Isamu, and Kawauchi, Satsuki, 4,707,387, Cl. 427-393.500.

Kawauchi, Yoshikazu: *See*—

Tomii, Kaoru; Miyama, Hiroshi; Kawauchi, Yoshikazu; and Nishida, Jun, 4,703,231, Cl. 315-366.000.

Kawaura, Masafumi: *See*—

Sakaida, Atsuo; Kawaura, Masafumi; Chikaoka, Yasuji; Iwata, Hiroshi; and Asano, Kiyomitsu, 4,634,301, Cl. 400-124.000.

Kawazoe, Akio; and Nakamura, Hisashi, to Oki Electric Industry Co., Ltd. Pulse width control circuit. 4,700,367, 10-13-87, Cl. 377-2.000.

Kawazoe, Akio; and Inoue, Satoru, to Oki Electric Industry Co., Ltd. Current driving circuit with CMOS inverter. 4,701,635, 10-20-87, Cl. 307-270.000.

Kawazoe, Hideyo; Iino, Akira; and Orimo, Katsumi, to Furukawa Electric Co., Ltd., The. Method of fabricating porous glass rod and apparatus for fabricating the same. 4,707,173, 11-17-87, Cl. 65-3.120.

Kawazoe, Hiromitsu: *See*—

Ohsawa, Katsuyuki; Kawazoe, Hiromitsu; and Nagano, Susumu, 4,676,216, Cl. 123-533.000.

Sugiyama, Katsuhiko; Kawazoe, Hiromitsu; and Idota, Yoshinori, 4,693,215, Cl. 123-188.00M.

Kawazoe, Michio. Adapter for tripods. 4,648,697, 3-10-87, Cl. 354-293.000.

Kawazoe, Toshiji: *See*—

Nozawa, Shigenori; Ohaya, Katsumi; and Kawazoe, Toshiji, 4,678,666, Cl. 424-81.000.

Kawazoye, Yutaka: *See*—

Vogdes, Christine E.; and Kawazoye, Yutaka, 4,693,940, Cl. 428-422.000.

Kawazu, Akinobu; Fukada, Atsushi; and Hoshinouchi, Susumu, to Mitsubishi Denki Kabushiki Kaisha. Apparatus for improving surface quality of rotary machine parts. 4,686,349, 8-11-87, Cl. 219-121.00L.

Kawczak, Alex W.: *See*—

Gunesin, Binnur Z.; and Kawczak, Alex W., 4,689,367, Cl. 525-240.000.

Kawczynski, Edward J.: *See*—

Bornkast, Horst; and Kawczynski, Edward J., 4,651,160, Cl. 343-719.000.

Kawczynski, Gregory: *See*—

Tan, Patrick; Maitland, Peter; Kawczynski, Gregory, and Camposeo, Paul V., 4,648,783, Cl. 414-730.000.

Kawneer Company, Inc.: *See*—

Whitmyer, Wayne E., 4,650,702, Cl. 428-31.000.

Kay, Allen I.; and Hokanson, Gerard C., to Warner-Lambert Company. Stabilized compositions. 4,696,912, 9-29-87, Cl. 514-7.000.

Kay, Allen I.: *See*—

Kao, Shui-Hsi; Kay, Allen I.; and Sampson, Karla, 4,696,814, C 424-80.000.

Kay, Bruce F., to United Technologies Corporation. Honeycomb spliced multilayer foam core aircraft composite parts and method for making same. 4,687,691, 8-18-87, Cl. 428-73.000.

Kay, Carl J., to Products Research & Chemical Corporation. Thermal barrier extrusion. 4,704,839, 11-10-87, Cl. 52-732.000.

Kay, D. Alan R., and Wilson, William G. Methods of desulfurizing gases. 4,714,598, 12-22-87, Cl. 423-230.000.

Kay, Dennis M. Stoma hygiene system and process therefor. 4,664,22 5-26-87, Cl. 604-289.000.

Kay, Edward L., and Gutierrez, Richard, to Firestone Tire & Rubber Company, The. Synthetic rubber with guayule resin stabilization. 4,647,607, 3-3-87, Cl. 524-77.000.

Kay, Edward L.; and Gutierrez, Richard, to Firestone Tire & Rubber Company, The. Extraction of rubber and/or resin from rubber containing plants with a monophase solvent mixture. 4,684,715, 8-4-87, Cl. 528-493.000.

Kay, Edward L., and Roskos, Kenneth B., to Firestone Tire & Rubber Company, The. Water as a partial extender in polyurethane formulations. 4,699,968, 10-13-87, Cl. 528-61.000.

Kay, Ian T., and Noon, Robert A., to Imperial Chemical Industries PLC. Biologically active amides. 4,709,038, 11-24-87, Cl. 546-316.000.

Kay, Ian T.: *See*—

Turnbull, Michael D.; and Kay, Ian T., 4,696,926, Cl. 514-230.000.

Kay, Ira W., and Lehrach, Ronald P. C., to United Technologies Corporation. Torque sensor for internal-combustion engine. 4,691,288, 9-1-87, Cl. 364-511.000.

Kay, James W.: *See*—

Bernhardt, Randal J.; Loeb, Melvin L.; and Kay, James W., 4,675,422, Cl. 556-13.000.

Kay, Leslie. Transducers. 4,704,556, 11-3-87, Cl. 310-334.000.

Kay, Leslie. Method of and apparatus for providing object data by machine vision. 4,713,798, 12-15-87, Cl. 367-96.000.

Kay, Paul D. Fishing lure. 4,703,579, 11-3-87, Cl. 43-42.190.

Kay, Peter D., and Girot, Michael C., to Tioxide Group PLC. Titanium compositions. 4,659,848, 4-21-87, Cl. 556-24.000.

Kay, Peter D.; and Girot, Michael C., to Tioxide Group PLC. Compositions incorporating titanium compounds. 4,705,568, 11-10-87, Cl. 106-26.000.

Kay, Peter L.: *See*—

Salant, Richard F.; Key, William E.; and Kay, Peter L., 4,643,43 Cl. 277-28.000.

Kay, Robert E.; Chan, Hakchill; Ju, Fred; and Bray, Burton A., to Ford Aerospace & Communications Corporation. Non isothermal method for epitaxially growing HgCdTe. 4,648,917, 3-10-87, Cl. 148-175.000.

Kay, Robert E.; Chan, Hakchill; Ju, Fred; and Bray, Burton A., to Ford Aerospace & Communications Corporation. HgCdTe epitaxially grown on crystalline support. 4,655,848, 4-7-87, Cl. 148-1.500.

Kay, Robert M., to Honeywell Inc. Bias signal filter for a ring laser. 4,669,881, 6-2-87, Cl. 356-350.000.

Kay, Thomas; Overbeek, Richard; and Mallow, Paul, to Wand Tool Company, Inc. Stacker-loader for stacking double sided printed circuit boards. 4,650,390, 3-17-87, Cl. 414-82.000.

Kaya, Azmi; and Rice, Larry, to Babcock & Wilcox Company, The. Supervisory control system for continuous drying. 4,704,80 11-10-87, Cl. 34-31.000.

Kaya, Azmi: *See*—

Johnson, Ralph K.; Kaya, Azmi; Keyes, Marion A., IV; and Moss, William H., 4,685,072, Cl. 364-551.000.

Kaya, Denise A.: *See*—

Rogers, Steven H.; Mundt, Randall S., and Kaya, Denise A., 4,656,497, Cl. 357-50.000.

Kaya, Seiji: *See*—

Fujisawa, Kunio; Tanaka, Toyoji; Mochizuki, Toshio; Nakamura, Norio; and Kaya, Seiji, 4,637,711, Cl. 355-72.000.

Fujisawa, Kunio; Tanaka, Toyoji; Mochizuki, Toshio; Nakamura, Norio; and Kaya, Seiji, 4,694,748, Cl. 101-401.100.

Kaya, Seitoku: *See*—

Wachi, Hiroshi; Kaya, Seitoku; and Kojima, Gen, 4,645,799, C 525-199.000.

Kayaba, Hitoshi: *See*—

Amano, Naoki; Kayaba, Hitoshi; and Kikuchi, Takehiro, 4,638,40 Cl. 361-341.000.

Kayaba Kogyo Kabushiki Kaisha: *See*—

Kosaka, Masato; and Yamazaki, Tatsu, 4,690,036, Cl. 91-506.000.

Kayahara, Isao, to Tohken Co., Ltd. Descaler and wire brush for use the same. 4,662,044, 5-5-87, Cl. 29-81.00H.

Kayahara, Takehiko: *See*—

Sakurai, Keiichi; and Kayahara, Takehiko, 4,646,610, Cl. 84-1.030.

Kayakabe, Hiroshi; Mitomi, Masaei; Miyajima, Mikio; Nakata, Shuji; Shimizu, Tadashi; Yoshite, Kazuharu; and Nishiu, Masamichi, to Shimizu Industry Company Ltd.; and Nippondenso Co., Ltd. Airstream control valve for automotive air conditioning apparatus and producing method therefor. 4,677,021, 6-30-87, Cl. 428-306.600.

Kayakabe, Nobuhiro; Sugiura, Tadashi; and Sugimoto, Hitoshi, to Aisin Seiki Kabushiki Kaisha. Method of making a poly-V ribbed pulley. 4,648,163, 3-10-87, Cl. 29-159.00R.

Kayama, Kazuyoski: *See*—

Kikuchi, Yasushi; Kayama, Kazuyoski; Tokieda, Akinori; Watanabe, Hiroyuki; and Akita, Shuichi, 4,677,165, Cl. 525-332.900.

Kayane, Shigeto: *See*—

Imamura, Takashi; Kayane, Shigeto; and Kurosaki, Tomihiro, 4,650,862, Cl. 536-17.100.

Kayane, Yutaka; Sawamoto, Hirokazu; Omura, Takashi; and Harada, Naoki, to Sumitomo Chemical Company, Limited. Fiber-reactive disazo brown dye having vinylsulfone-type reactive group. 4,698,421, 10-6-87, Cl. 534-642.000.

Kayane, Yutaka; Sawamoto, Hirokazu; Omura, Takashi; Harada, Naoki; and Takeshita, Akira, to Sumitomo Chemical Company, Limited. Pyridone monoazo compound having vinylsulfone type fiber-reactive group. 4,701,524, 10-20-87, Cl. 534-642.000.

Kayanoki, Katsuhiko; Teramachi, Kazuo; Ono, Seigo; and Hashimoto, Yasuyuki, to Mitsubishi Jidosha Kogyo Kabushiki Kaisha; and Kabushiki Kaisha Daikin Seisakusho. Spring type clutch disc. 4,650,053, 3-17-87, Cl. 192-106.200.

Kayanoki, Kazuhito: *See—*
  Araki, Tsunehiko; Matsuda, Hiroshi; Kayanoki, Kazuhito; and Nagaoka, Akira, 4,656,462, Cl. 340-556.000.
  Suzuki, Muneo; Kondo, Mikio; Morimoto, Makoto; and Kayanoki, Kazuhito, 4,672,206, Cl. 250-342.000.

Kayanuma, Kanji: *See—*
  Itonaga, Makoto; and Kayanuma, Kanji, 4,653,924, Cl. 356-369.000.
  Itonaga, Makoto; and Kayanuma, Kanji, 4,695,162, Cl. 356-369.000.

Kayanuma, Nobuaki: *See—*
  Chujo, Yoshiki; Kayanuma, Nobuaki; Bessho, Hironori; Masui, Takatoshi; Nagai, Toshinari; Katsuno, Toshiyasu; and Tanahashi, Toshio, 4,693,076, Cl. 60-274.000.
  Chujo, Yoshiki; Kayanuma, Nobuaki; Bessho, Hironori; Masui, Takatoshi; Katsuno, Toshiyasu; and Tanahashi, Toshio, 4,703,619, Cl. 60-274.000.
  Oishi, Kiyohiko; Nakanishi, Kiyoshi; Kayanuma, Nobuaki; Kawai, Taiyo; Nakagawa, Norihisa; and Nomura, Hiroshi, 4,667,636, Cl. 123-432.000.

Kayashima, Takako: *See—*
  Sato, Takashi; Kubo, Emiko; and Kayashima, Takako, 4,716,108, Cl. 435-7.000.

Kayata, Haruhiko: *See—*
  Tatsumi, Hisao; Kayata, Haruhiko; Yamamori, Kenji; Kakizawa, Toshio; and Mogi, Toshiaki, 4,712,115, Cl. 346-76.0PH.

Kayby Mills of N.C., Inc.: *See—*
  English, John W., 4,663,945, Cl. 66-56.000.

Kaydon Corporation: *See—*
  Jones, J. Ivor, 4,648,729, Cl. 384-615.000.

Kaye, Alex R. Boat with stabilizing flaps. 4,660,499, 4-28-87, Cl. 114-354.000.

Kaye, Gordon E., and Agnello, Joseph A., Jr., to Unvention Inc., a part interest. Position actuated illuminated gunsight. 4,677,782, 7-7-87, Cl. 42-100.000.

Kaye, Gordon E.: *See—*
  Marshall, Howard B.; Kaye, Gordon E.; and Lopata, Ira L., 4,713,005, Cl. 433-180.000.

Kaye, Paul S., to Lewisan Products, Inc. Drain-cleaning implement. 4,706,321, 11-17-87, Cl. 15-104.3SN.

Kaylor, Marvin A., to Augustus Worx, Inc. Particulate diamond-coated metal article with high resistance to stress cracking and process therefor. 4,659,436, 4-21-87, Cl. 204-16.000.

Kayser, Dennis J., to Wang Laboratories, Inc. Modular power system. 4,638,178, 1-20-87, Cl. 307-85.000.

Kayser, John P., and Kast, Philip J., to Madison-Kipp Corporation. Apparatus for lubricating a moving chain. 4,648,486, 3-10-87, Cl. 184-15.100.

Kayser, John P.: *See—*
  Dombroski, Robert M.; and Kayser, John P., 4,711,320, Cl. 184-3.200.

Kayser, Michael: *See—*
  Franckowiak, Gerhard; Bechem, Martin; Gross, Rainer; Kayser, Michael; Schramm, Matthias; and Thomas, Gunter, 4,710,501, Cl. 514-256.000.
  Meyer, Horst; Franckowiak, Gerhard; Rosentreter, Ulrich; Gross, Rainer; Thomas, Gunter; Schramm, Matthias; Kayser, Michael; Seuter, Friedel; Perzborn, Elisabeth; and Bechem, Martin, 4,707,479, Cl. 514-222.000.

ayser, Stephen J.: *See—*
  Blackshear, David A.; Blackshear, Perry L., Jr.; Kayser, Stephen J.; and Hoey, Michael F., 4,649,793, Cl. 84-453.000.

ayukawa, Hiroaki: *See—*
  Inagaki, Mitukane; Ohta, Masaki; Hyodo, Akihiko; Takenaka, Kenji; Mitibata, Takashi; Suzuki, Shinichi; and Kayukawa, Hiroaki, 4,712,982, Cl. 417-222.000.
  Takenaka, Kenji; Ohta, Masaki; and Kayukawa, Hiroaki, 4,685,866, Cl. 417-222.000.
  Takenaka, Kenji; Suzuki, Shinichi; Kayukawa, Hiroaki; and Ohta, Masaki, 4,702,677, Cl. 417-222.000.

yukawa, Naoyuki: *See—*
  Aoki, Yoshiaki; Kayukawa, Naoyuki; Yamazaki, Hatsuo; Ozawa, Yasutomo; and Kitagawa, Hiroki, 4,707,147, Cl. 374-161.000.

yyod, Fariborz; Stuart, Richard J.; and Ogden, Jeffrey D., to General Motors Corporation. Actuator for converting linear motion to rotary motion and vice versa. 4,711,156, 12-8-87, Cl. 92-31.000.

yyod, Fariborz; Stuart, Richard J.; and Ogden, Jeffrey D., to General Motors Corporation. Actuator for converting linear motion to rotary motion and vice versa. 4,711,157, 12-8-87, Cl. 92-31.000.

yyod, Fariborz; and Hoffman, Donald E., to General Motors Corporation. Linear motion actuator with spring centering means. 4,711,158, 12-8-87, Cl. 92-94.000.

zakhsky Politekhnichesky Institute Imeni V.I. Lenina: *See—*
  Aubakirov, Marat T.; Limanov, Esengali L.; Syzdykov, Askar K.; Abdrazakov, Ravil S.; Tleuov, Murat G.; Khazhuer, Vladimir S.; Buzdov, Ruslan D.; and Khashirov, Vladislav K., 4,681,174, Cl. 175-330.000.

Kazama, Norio: *See—*
  Shigesada, Masaaki; and Kazama, Norio, 4,648,648, Cl. 296-37.160.

Kazama, Shigenori: *See—*
  Miyamoto, Takeshi; Ura, Mikio; Kazama, Shigenori; Kase, Takao; and Maeda, Yoshiko, 4,645,307, Cl. 350-357.000.

Kazama, Takeo: *See—*
  Fujimoto, Teruo; Kazama, Takeo; Takamizawa, Minoru; and Yamamoto, Akira, 4,636,454, Cl. 430-197.000.

Kazama, Toshinori: *See—*
  Iida, Muneo; Simizu, Jyosei; Suzuki, Masami; Okamoto, Nobuyuki; Kazama, Toshinori; Honda, Masanobu; Mochida, Jiro; Tada, Seiji; and Fujii, Masayuki, 4,660,110, Cl. 360-98.000.

Kazama, Toyoki; Aizawa, Koichi; Yamaguchi, Kiyoto; Hara, Kenichi; and Iijima, Toshiyuki, to Fuji Electric Co., Ltd. Electrophotographic light-sensitive element with amorphous C overlayer. 4,675,265, 6-23-87, Cl. 430-67.000.

Kazama, Yasuo: *See—*
  Mikiya, Toshio; Kaneko, Minoru; and Kazama, Yasuo, 4,681,172, Cl. 173-139.000.

Kazami, Kazuyuki, and Wakabayashi, Hiroshi, to Nippon Kogaku K. K. Safety apparatus for feeding a film of a camera. 4,637,702, 1-20-87, Cl. 354-173.110.

Kazami, Kazuyuki; and Nakamura, Toshiyuki, to Nippon Kogaku K. K. Current supply device for plural loads. 4,670,693, 6-2-87, Cl. 318-112.000.

Kazami, Kazuyuki, to Nippon Kogaku K. K. Method and apparatus for controlling operation of camera. 4,684,232, 8-4-87, Cl. 354-400.000.

Kazami, Kazuyuki; Nakamura, Toshiyuki; and Wakabayashi, Hiroshi, to Nippon Kogaku K. K. Warning apparatus for camera. 4,714,938, 12-22-87, Cl. 354-173.100.

Kazami, Kazuyuki: *See—*
  Wakabayashi, Hiroshi; and Kazami, Kazuyuki, 4,690,533, Cl. 354-173.110.
  Wakabayashi, Hiroshi; Kazami, Kazuyuki; and Uchida, Isao, 4,697,898, Cl. 354-127.130.

Kazan, Benjamin, to Xerox Corporation. Optical display device. 4,660,938, 4-28-87, Cl. 350-355.000.

Kazaoka, Kenichi; Okazaki, Hiroshi; and Inaba, Yasuhisa, to Aisin Seiki Kabushiki Kaisha. Seat cushion structure. 4,636,006, 1-13-87, Cl. 297-458.000.

Kazaoka, Kenichi; Okazaki, Hiroshi; and Hyodo, Motoi, to Aisin Seiki Kabushiki Kaisha. Seat assembly for vehicles. 4,666,209, 5-19-87, Cl. 297-344.000.

Kazaoka, Kenichi; and Okazaki, Hiroshi, to Aisin Seiki Kabushiki Kaisha. Resilient back-up mechanism for vehicle seat structure. 4,671,569, 6-9-87, Cl. 297-284.000.

Kazaoka, Kenichi; Okazaki, Hiroshi; and Inaba, Yasuhisa, to Aisin Seiki Kabushiki Kaisha. Flexible mounting. 4,682,763, 7-28-87, Cl. 267-89.000.

Kazaoka, Kenichi; Okazaki, Hiroshi; and Inaba, Yasuhisa, to Aisin Seiki Kabushiki Kaisha. Seat cushion for vehicles. 4,687,251, 8-18-87, Cl. 297-337.000.

Kazaoka, Kenichi; and Okazaki, Hiroshi, to Aisin Seiki Kabushiki Kaisha. Seat reclining apparatus. 4,709,965, 12-1-87, Cl. 297-366.000.

Kazaoka, Kenichi; Wakamatsu, Fumio; and Shinkai, Yasuo, to Aisin Seiki Kabushiki Kaisha. Seat for vehicles. 4,711,497, 12-8-87, Cl. 297-458.000.

Kazarian, Aram V.: *See—*
  Mkhikian, Robert M.; Shaginian, Suren G.; Markarian, Temur G.; Khaidukov, Georgy K.; Velidzhanian, Sofia V.; Manukian, Artashes R.; Karapetian, Artur K.; Kazarian, Aram V.; and Airapetian, Robert R., 4,708,628, Cl. 425-406.000.

Kazarian, Robert V.: *See—*
  Arutjunian, Norair S.; Kornena, Elena P.; Kazarian, Robert V.; Ponomareva, Natalya A.; Redko, Grigory V.; Sakhno, Lidia T.; and Zhidkova, Irina S., 4,713,155, Cl. 204-155.000.

Kazarian, Sam; Hagene, Steffen D.; McCrimmon, Kenneth A., Jr.; Miller, Robert C.; and Schwerin, James A., to Printronix, Inc. Ribbon fault detection system. 4,685,818, 8-11-87, Cl. 400-249.000.

Kazarov, Ljubomir R.: *See—*
  Cermanov, Atanas S.; Kazarov, Ljubomir R.; Valev, Marco S.; Jelyazcov, Jelyazco C.; and Kolev, Rusy C., 4,641,791, Cl. 241-66.000.

Kazda, Stanislav: *See—*
  Garthoff, Bernward; Kazda, Stanislav; and Knorr, Andreas, 4,703,038, Cl. 514-19.000.
  Kabbe, Hans-Joachim; Widdig, Arno; Niewohner, Ulrich; Knorr, Andreas; Garthoff, Bernward; and Kazda, Stanislav, 4,647,579, Cl. 514-456.000.
  Kabbe, Hans-Joachim; Niewohner, Ulrich; Widdig, Arno; Knorr, Andreas; Garthoff, Bernward; and Kazda, Stanislav, 4,659,737, Cl. 514-456.000.

Kazewych, Bohdan: *See—*
  Lam, Michael K.; Kazewych, Bohdan; and Kobrehel, Michael D., 4,672,771, Cl. 49-352.000.

Kazic, Marko: *See—*
  Trost, Stojan; Vedlin, Boris; and Kazic, Marko, 4,672,616, Cl. 372-19.000.

Kazino, Sadayosi; and Yoshikawa, Naoki, to Nippondenso Co., Ltd. Engine starter. 4,674,344, 6-23-87, Cl. 74-7.00A.

Kazlaukas, Romas J.: *See—*
  Whitesides, George M.; Crans, Debbie C.; and Kazlaukas, Romas J., 4,701,285, Cl. 260-545.00P.

Kazlauskas, Gasparas. Pipe welder. 4,649,250, 3-10-87, Cl. 219-60.00A.

Kazlauskas, Gasparas. Track mounted welding head base having cam pivoted drive assembly. 4,703,698, 11-3-87, Cl. 105-29.100.

Kazlausky, Thomas J.: *See—*
  Lundy, Joseph R.; and Kazlausky, Thomas J., 4,665,485, Cl. 364-417.000.

Kazmaier, Guenther: *See—*
  Stoll, Thomas; Goller, Ernst; Kazmaier, Guenther; and Schmid, Franz, 4,658,603, Cl. 66-126.00R.

Kazmierski, Ronald J., to C. M. Smillie & Company. Cushioned clamp cylinder with proximity switches. 4,681,992, 7-21-87, Cl. 200-82.00E.

Kazuaki, Hokoda: *See—*
  Fumiyuki, Suda, and Kazuaki, Hokoda, 4,689,283, Cl. 430-69.000.

Kazuharu, Teraoka, to Teraoka Seikosho Co., Ltd. Label printer. 4,685,702, 8-11-87, Cl. 283-81.000.

Kazui, Shinichi: *See—*
  Imura, Midori; Morijiri, Makoto; Hanazono, Masanobu; Kazui, Shinichi; Miura, Youzi; and Ogino, Hiroyuki, 4,659,587, Cl. 427-35.000.

Kazui, Takahide. Card printer by means of a card feeding and type selecting printing method. 4,706,563, 11-17-87, Cl. 101-93.430.

Kazumi, Hirai, to Matsushita Electric Industrial Co., Ltd. Heating appliance having a fail-safe start switch. 4,638,137, 1-20-87, Cl. 219-10.55B.

Kazumi, Jiro; and Ishihara, Masaaki, to Canon Kabushiki Kaisha. Photographic data exposure device. 4,664,491, 5-12-87, Cl. 354-105.000.

Kazumi, Jiro, to Canon Kabushiki Kaisha. Interval shooting device. 4,678,304, 7-7-87, Cl. 354-173.110.

Kazumoto, Yoshio: *See—*
  Fujiwara, Michio; Kazumoto, Yoshio; Nomaguchi, Tamotsu; Tsuchino, Kazunori; Kawajiri, Kazuhiko; and Hisamori, Youichi, 4,662,176, Cl. 60-526.000.

Kazuo, Nakahama: *See—*
  Masakazu, Kikuchi, and Kazuo, Nakahama, 4,705,750, Cl. 435-68.000.

Kazusa, Hideo: *See—*
  Sawada, Kouji; Miura, Kiyokatsu; Suzuki, Keiichiro; Idosako, Hidetaka; and Kazusa, Hideo, 4,714,368, Cl. 403-132.000.

Kazusa, Susumu; Nagamine, Masahiro; and Tagawa, Takayuki, to Mitsuboshi Belting Ltd. Bicycle tire. 4,649,979, 3-17-87, Cl. 152-527.000.

Kazusaka, Shoji: *See—*
  Hayashi, Mitsuji; Niwa, Takashi; Hayakawa, Akihiko; Bingo, Hideyuki; Kazusaka, Shoji; and Konishi, Keisuke, 4,701,582, Cl. 200-61.420.

Kazuyuki, Ishii; Yoshio, Ebe; and Shuji, Fujieda, to Honda Giken Kogyo Kabushiki Kaisha; and Kabushiki Kaisha Toyosha Seisakusho. Locking device of opening and closing members for vehicles. 4,643,470, 2-17-87, Cl. 292-216.000.

KB Denver, Inc.: *See—*
  Dunlap, Bill D., 4,703,139, Cl. 200-76.000.

KB Vindkraft i Goteborg: *See—*
  Karlsson, Jan, 4,684,316, Cl. 415-2.00A.

KCL Corporation: *See—*
  Sullivan, Brian P.; Dennis, Larry T.; and Ferrell, Robert A., 4,637,063, Cl. 383-61.000.

KCR Technology, Inc.: *See—*
  Coburn, Richard J.; Dean, Walter C., II; Kegelman, Thomas D.; and Milliard, Norman L., 4,638,339, Cl. 346-153.100.
  Dean, Walter C., II, 4,642,661, Cl. 346-153.100.
  Dean, Walter C., II, 4,651,605, Cl. 83-209.000.

KDI Sylvan Pools, Inc.: *See—*
  van den Broek, William A., 4,706,309, Cl. 4-508.000.

Kea, Sandra; Walker, Charles E.; and Kline, Eric, to Nebraska Department of Economic Development. Sugar esters and an improved anhydrous method of manufacture. 4,683,299, 7-28-87, Cl. 536-119.000.

Kea, Sandra; and Walker, Charles E., to Nebraska Department of Economic Development, State of Nebraska. Separation and purification of sugar esters synthesized from both aqueous and nonaqueous systems. 4,710,567, 12-1-87, Cl. 536-119.000.

Keable, John B., to QMI Corporation. Photographic film coater. 4,674,438, 6-23-87, Cl. 118-642.000.

Keady, Peter; and Magennis, Thomas P., to Viking Container Company. Container and protective insert for shock sensitive devices. 4,709,817, 12-1-87, Cl. 206-523.000.

Keady, William M.; Iseger, Frank; and Maidment, Barry, to Advalloy, Inc. Apparatus for loading singulated lead frames into containers. 4,656,817, 4-14-87, Cl. 53-520.000.

Keana, John F.: *See—*
  Weber, Eckard; Sonders, Mark; and Keana, John F., 4,709,094, Cl. 564-238.000.

Keane, James. Removal of chlorine-based contaminants from materials contaminated the same. 4,698,148, 10-6-87, Cl. 208-390.000.

Keane, James, to Linnola Limited. Method of separating oil or bitumen from surfaces covered with same. 4,704,200, 11-3-87, Cl. 208-390.000.

Keane, James H.: *See—*
  Cormack, Owen R.; and Keane, James H., 4,696,072, Cl. 15-248.00A.

Keane, James W., to Whirlpool Corporation. Hose coupling for vacuum cleaner. 4,639,055, 1-27-87, Cl. 339-16.00R.

Keane, James W.; and Martin, William J., to Whirlpool Corporation. Quick release power cord wrap for canister vacuum cleaner. 4,658,465, 4-21-87, Cl. 15-323.000.

Keane, John J.; and Wacker, Thomas P., to General Electric Company. Flexible printed circuits, prepared by augmentation replacement process. 4,670,351, 6-2-87, Cl. 428-549.000.

Keane, John J.: *See—*
  Fox, Daniel W.; and Keane, John J., 4,699,956, Cl. 525-440.000.

Keane, Martin A.: *See—*
  Koza, John R.; La Marre, Norman T.; and Keane, Martin A., 4,652,998, Cl. 364-412.000.

Kearney, Calvin T. Dial indicator adapter. 4,646,441, 3-3-87, Cl. 33-172.00D.

Kearney, Calvin T.: *See—*
  Barraza, Arthur; and Kearney, Calvin T., 4,695,222, Cl. 415-80.000.

Kearney, David A., to Markem Corporation. Label applicator. 4,680,082, 7-14-87, Cl. 156-497.000.

Kearney, Donald T.: *See—*
  Vogel, Gerald J.; Kearney, Donald T.; Akpinar, Belkis K.; and Moorman, Charles T., 4,707,368, Cl. 426-386.000.

Kearney, Francis R., to Warner-Lambert Company. Process for preparing 5-(2,5-dimethylphenoxy)-2,2-dimethylpentanoic acid. 4,665,226, 5-12-87, Cl. 562-471.000.

Kearney, James E.: *See—*
  Raskin, Donald; Kearney, James E.; and Haznedar, Erol A., 4,716,556, Cl. 367-168.000.

Kearney, Mark B.: *See—*
  Shreve, John R.; and Kearney, Mark B., 4,684,877, Cl. 323-269.000.

Kearney-National, Inc.: *See—*
  Osborne, Anthony, 4,681,990, Cl. 200-48.0KB.
  Osborne, Anthony, 4,713,500, Cl. 200-48.0KB.
  Smith, Wayne A., 4,707,574, Cl. 200-48.0KB.

Kearney, Thomas J. Treatment of wash water in paint spray booths. 4,678,586, 7-7-87, Cl. 210-743.000.

Kearney & Trecker Corporation: *See—*
  Kis, Charles J., 4,643,037, Cl. 74-342.000.
  Kis, Charles J., 4,699,276, Cl. 211-1.500.
  Lohneis, Earl R.; and Woythal, Robert T., 4,679,970, Cl. 408-128.000.
  Mattson, Clyde E., 4,673,076, Cl. 198-346.200.

Kearney & Trecker Marwin Limited: *See—*
  Hashim, Abdullah, 4,637,054, Cl. 382-8.000.

Kearns, Donald S.: *See—*
  Gambini, Michael R.; Martone, Ronald J.; Kearns, Donald S.; Enos, Gary W.; Franke, Rudi; and Schoeppy, Herbert, 4,645,933, Cl. 250-363.00S.

Kearns, John J.: *See—*
  Tremblay, Paul A.; and Kearns, John J., 4,714,571, Cl. 260-403.000.

Kearns, Michael W., to IMI Titanium Limited. Formation of porous bodies. 4,659,546, 4-21-87, Cl. 419-2.000.

Kearsley, Andrew J., to Oxford Lasers Limited. Laser device employing a porous material in the discharge chamber. 4,696,011, 9-22-87, Cl. 372-61.000.

Kearton, William B.; Kloes, Kenneth A.; and Terry, Joel R., to Westinghouse Electric Corp. Reactor monitoring assembly. 4,708,844, 11-24-87, Cl. 376-247.000.

Keary, Colin M.; and Shepherd, David, to Imperial Chemical Industries PLC. Sedimentation field flow fractionation. 4,657,676, 4-14-87, Cl. 210-198.200.

Keates, Richard H.: *See—*
  Schneider, Richard T.; and Keates, Richard H., 4,648,400, Cl. 128-303.100.

Keathley, H. Milton: *See—*
  Davis, Ronald G., 4,637,965, Cl. 429-1.000.

Keating, Henry M.; and Fortenberry, Kirby C., to Flexmaster U.S.A., Inc. Access door. 4,667,449, 5-26-87, Cl. 52-213.000.

Keating, Kenneth P.: *See—*
  Marquis, Edward T.; Sanderson, John R.; Keating, Kenneth P.; and Smith, William A., 4,650,886, Cl. 556-57.000.
  Marquis, Edward T.; Sanderson, John R.; Keating, Kenneth P.; and Smith, William A., 4,654,427, Cl. 556-57.000.
  Marquis, Edward T.; Sanderson, John R.; and Keating, Kenneth P., 4,703,027, Cl. 502-171.000.
  Sanderson, John R.; Smith, William A.; Marquis, Edward T.; and Keating, Kenneth P., 4,691,034, Cl. 549-542.000.
  Sanderson, John R.; Marquis, Edward T.; Smith, William A.; and Keating, Kenneth P., 4,691,035, Cl. 549-542.000.

Keating, Martin T., Jr.: *See—*
  Carli, Giovanni; and Keating, Martin T., Jr., 4,653,470, Cl. 126-418.000.

Keating, Richard. Hinged top grill arrangment. 4,697,504, 10-6-87, Cl. 99-331.000.

Keatley, Andrew: *See—*
  Dytch, Anthony; Keatley, Andrew; and Wright, William, 4,638,147, Cl. 219-308.000.

Keats, Albert B., to United Kingdom Atomic Energy Authority. Monitoring system. 4,639,882, 1-27-87, Cl. 364-550.000.

Keats, Dennis R.: *See—*
  Vahlstrom, Richard; and Keats, Dennis R., 4,651,276, Cl. 364-200.000.

Keck, Donald B., to Corning Glass Works. Method for drawing fiber optic coupler. 4,704,151, 11-3-87, Cl. 65-4.100.

Keck, Henry C.; and Fujitaki, Roy K., to Bobrick Washroom Equipment, Inc. Wall mounted dryer. 4,707,933, 11-24-87, Cl. 34-97.000.

Keck, Karl, to Luk Lamellen und Kupplungsbau GmbH. Friction clutch. 4,681,200, 7-21-87, Cl. 192-70.270.

Keck, Wilfried; and Witek, Werner, to J. M. Voith GmbH. Waste paper processing system. 4,704,201, 11-3-87, Cl. 209-17.000.

Keddy, Roy C. Air mover. 4,634,339, 1-6-87, Cl. 415-70.000.

Kedem, Gershon; and Ellis, John L., to University of Rochester, The. Computer systems for curve-solid classification and solid modeling. 4,649,498, 3-10-87, Cl. 364-518.000.

Kedzierski, Heinrich, to WABCO Westinghouse Steuerungstechnik GmbH & Co. Double-acting working cylinder having a piston-dampening arrangement. 4,633,758, 1-6-87, Cl. 91-44.000.

Kedzierski, Stanley G., to Talon, Inc. Locking slider for slide fastener. 4,644,613, 2-24-87, Cl. 24-421.000.

Kee, Gene A.; and Hanna, Mark. One-person battering ram. 4,681,171, 7-21-87, Cl. 173-90.000.

Kee, Richard C., to Polaroid Corporation. Electronic camera handle configuration. 4,692,807, 9-8-87, Cl. 358-229.000.

Kee, Thomas S. G. Device for use in removing screw closures from containers. 4,662,250, 5-5-87, Cl. 81-3.250.

Keech, David W., to Scott & Fetzer Company, The. 44. T-fitting for use with different diameter pipes. 4,703,956, 11-3-87, Cl. 285-156.000.

Keedy, Edgar L., to V-K Enterprises, Inc. Guide assembly for cutting torch tip. 4,688,770, 8-25-87, Cl. 266-66.000.

Keefe, Jack D.: *See*—
Wisecup, David R., and Keefe, Jack D., 4,670,950, Cl. 24-150.00R.

Keefe, Peter D. Coherent magneto-caloric effect superconductive heat engine process cycle. 4,638,194, 1-20-87, Cl. 310-40.00R.

Keefe, Richard A., to North American Philips Corp. Heater element for blow dryers, paint strippers and the like. 4,667,086, 5-19-87, Cl. 219-532.000.

Keefer, Bowie G. Method and apparatus for gas separation and synthesis. 4,702,903, 10-27-87, Cl. 423-359.000.

Keefer, Donald W.: *See*—
Fogel, Isaac; and Keefer, Donald W., 4,715,076, Cl. 5-450.000.
Wride, Lawrence; and Keefer, Donald W., 4,688,284, Cl. 5-450.000.

Keefer, Keith D.: *See*—
Brinker, C. Jeffrey; Keefer, Keith D.; and Lenahan, Patrick M., 4,652,467, Cl. 427-246.000.

Keefer, Richard M. Microwave heating package and method. 4,656,325, 4-7-87, Cl. 219-10.55E.

Keeffe, William M.; Gungle, W. Calvin; Rothwell, Harold L., Jr.; and Krasko, Zeya K., to GTE Products Corporation. Electrode alignment and capsule design for single-ended low wattage metal halide lamps. 4,636,687, 1-13-87, Cl. 313-620.000.

Keeffe, William M.; and Krasko, Zeya K., to GTE Products Corporation. Low wattage metal halide lamp. 4,709,184, 11-24-87, Cl. 313-638.000.

Keeffe, William M.: *See*—
Lapatovich, Walter P.; Keeffe, William M.; Liebermann, Richard W.; and Maya, Jakob, 4,672,267, Cl. 313-571.000.

Keegan, John J., Jr.: *See*—
Hommes, William J.; and Keegan, John J., Jr., 4,675,582, Cl. 318-38.000.

Keegan, Patrick J.: *See*—
Raleigh, William F.; and Keegan, Patrick J., 4,663,613, Cl. 340-607.000.

Keehn, William T.: *See*—
Tonyes, Henry J.; Keehn, William T.; German, Harold W.; and Hill, Brian S., 4,713,250, Cl. 426-2.000.

Keehne, Julian L., to Schiller Industries Inc. Backshell connector for multi-conductor shielded cables. 4,671,598, 6-9-87, Cl. 439-610.000.

Keeler, Brad: *See*—
Swanson, Erick C., 4,669,420, Cl. 119-3.000.

Keeler, Brian G.; and Whitley, George J., to RCA Corporation. Robot end effector for processing component leads. 4,691,419, 9-8-87, Cl. 29-39.000.

Keeler, David J.: *See*—
Russell, Robert C., and Keeler, David J., 4,634,165, Cl. 294-99.200.

Keeler, Donald E.: *See*—
Schroeder, Joseph G.; and Keeler, Donald E., 4,664,058, Cl. 118-249.000.

Keeley, James W.; Ledoux, Robert V.; and Negi, Virendra S., to Honeywell Information Systems Inc. Enable/disable control checking apparatus. 4,667,288, 5-19-87, Cl. 364-200.000.

Keeley, James W.; Ledoux, Robert V.; and Negi, Virendra S., to Honeywell Information Systems Inc. Test apparatus for testing a multilevel cache system with graceful degradation capability. 4,686,621, 8-11-87, Cl. 364-200.000.

Keeley, James W.; and Joyce, Thomas F., to Honeywell Information Systems Inc. Multiprocessor shared pipeline cache memory with split cycle and concurrent utilization. 4,695,943, 9-22-87, Cl. 364-200.000.

Keely, Stanley L.: *See*—
Crawford, Thomas C.; Keely, Stanley L.; Larson, David L.; Lombardino, Joseph G.; and Maciejko, James J., 4,672,061, Cl. 514-222.000.

Keem, John: *See*—
Catchpole, Clive; Yaniv, Zvi; Cannella, Vincent D.; Keem, John; and Swartz, Louis D., 4,675,739, Cl. 358-213.110.

Keem, John E.; Bergeron, Richard C.; Custer, Russell C.; and McCallum, R. William, to Energy Conversion Devices, Inc. Electrodes made with disordered active material and methods of making the same. 4,637,967, 1-20-87, Cl. 429-101.000.

Keem, John E.; and Flasck, James D., to Ovonic Synthetic Materials Company, Inc. Multilayer protective coating and method. 4,643,951, 2-17-87, Cl. 428-469.000.

Keem, John E.; Ovshinsky, Stanford R.; Flessa, Steven A.; Wood, James L.; Hart, Keith L.; and Sztaba, Lennard, to Ovonic Synthetic Materials Company, Inc. X-ray dispersive and reflective structures and method of making the structures. 4,693,933, 9-15-87, Cl. 428-333.000.

Keem, John E.; and Marshall, Gerald F., to Energy Conversion Devices, Inc. Subassembly, method and system for monochromatizing X-rays. 4,698,833, 10-6-87, Cl. 378-84.000.

Keem, John E.: *See*—
Ovshinsky, Stanford R.; Keem, John E.; Flasck, James D.; Bergeron, Richard C.; and Tyler, John E., 4,645,715, Cl. 428-469.000.
Wood, James L.; Grupido, Nicola J.; Hart, Keith L.; and Keem, John E., 4,675,889, Cl. 378-84.000.

Keen, Egbert. Device comprising a frame of lengths of tube and coupling pieces and coupling piece for the same. 4,678,359, 7-7-87, Cl. 403-170.000.

Keen, Frederick I.: *See*—
Choy, Clement K.; and Keen, Frederick I., 4,657,692, Cl. 252-99.000.
Choy, Clement K.; Keen, Frederick I.; Garabedian, Aram; and Spurgeon, Colleen J., 4,695,394, Cl. 252-97.000.

Keen, Nickey D., to General Motors Corporation. Spring retainer for encapsulated semiconductor device. 4,710,852, 12-1-87, Cl. 361-386.000.

Keen, Ronald T.: *See*—
Filliman, Paul D.; Harwood, Leopold A.; Keen, Ronald T.; and Parker, Robert P., 4,660,084, Cl. 358-171.000.
Harwood, Leopold A.; Filliman, Paul D.; and Keen, Ronald T., 4,660,085, Cl. 358-171.000.

Keenan, Andrea C.: *See*—
Dupre, Jean; and Keenan, Andrea C., 4,678,596, Cl. 252-174.240.

Keenan, Daniel J.; and Hoss, Donald A., to Chrysler Motors Corporation. Collapsible/expandable shipping rack. 4,714,169, 12-22-87, Cl. 220-8.000.

Keenan, Joseph A.; and Reinberg, Alan R., to Texas Instruments Incorporated. Radioactive timing source for horologic instruments and the like. 4,676,661, 6-30-87, Cl. 368-156.000.

Keenan, Ronald M.: *See*—
Korsky, Vincent V.; and Keenan, Ronald M., 4,679,228, Cl. 379-165.000.

Keene, Bonnie J., administratrix: *See*—
Sturgis, John I.; and Keene, Robert G., deceased, 4,664,993, Cl. 429-178.000.

Keene Corp.: *See*—
Demont, Allan S., 4,683,791, Cl. 83-874.000.
Pahl, Scott; and De Simone, Luigi, 4,716,504, Cl. 362-150.000.

Keene, Donald W., to Charles Stark Draper Laboratory, Inc., The. Electromagnetic gyroscope. 4,651,565, 3-24-87, Cl. 73-505.000.

Keene, Donna L.: *See*—
Murphy, Carl D.; Keene, Donna L.; and Lindley, Daniel D., 4,663,485, Cl. 568-319.000.

Keene, Harold J.: *See*—
Dusel, Robert O.; and Keene, Harold J., 4,649,621, Cl. 29-564.400.
Dusel, Robert O.; Keene, Harold J.; Berres, James; and Blaha, Gerald, 4,713,880, Cl. 29-564.400.

Keene, Ian W.: *See*—
Taylor, John E.; and Keene, Ian W., 4,690,499, Cl. 350-96.230.
Taylor, John E.; and Keene, Ian W., 4,699,461, Cl. 350-96.230.

Keene, John F.; Kuller, Bengt L.; and Kemmeter, Robert G., to Enkel Corporation. Apparatus for continuously supplying a web of sheet material. 4,673,142, 6-16-87, Cl. 242-58.300.

Keene, Robert G., deceased: *See*—
Sturgis, John I.; and Keene, Robert G., deceased, 4,664,993, Cl. 429-178.000.

Keener, Harold M.: *See*—
Anderson, Robert J.; Keener, Harold M.; and Henry, James E., 4,671,251, Cl. 126-99.00R.
Anderson, Robert J.; Keener, Harold M.; and Henry, James E., 4,676,733, Cl. 431-7.000.

Keener, Richard A.: *See*—
Rice, Verle L.; Rafferty, Robert P.; and Keener, Richard A., 4,646,605, Cl. 83-782.000.

Keenlyside, Michael: *See*—
Turner, David W.; Dixon, Andrew J.; Gehring, Karl A.; and Keenlyside, Michael, 4,713,833, Cl. 378-119.000.

Kees, George, Jr. Aneurysm clip. 4,658,822, 4-21-87, Cl. 128-325.000.

Kees, George, Jr. Aneurysm clip and method of manufacture. 4,660,558, 4-28-87, Cl. 128-325.000.

Kees, George, Jr., to Kees Surgical Specialty Co. Device for holding an aneurysm clip. 4,681,107, 7-21-87, Cl. 128-325.000.

Kees Surgical Specialty Co.: *See*—
Kees, George, Jr., 4,681,107, Cl. 128-325.000.

Keese, Charles R.: *See*—
Giaever, Ivar; and Keese, Charles R., 4,634,681, Cl. 436-518.000.

Keese, Frank M.: *See*—
Effenberger, John A.; Ribbans, Robert C., III; and Keese, Frank M., 4,654,235, Cl. 427-407.300.

Keesen, Heinz-Werner; Oberjatzas, Gunter; and Peters, Hartmut, to Telefunken Fernseh und Rundfunk GmbH. Digital data transmission method. 4,694,336, 9-15-87, Cl. 358-133.000.

Keesling, Evan L.: *See*—
Stewart, E. Allen, III; and Keesling, Evan L., 4,638,621, Cl. 56-9.000.

Keetley, Reginald G.; and Allen, Keith, to Teledyne Industries, Inc. Torque meter. 4,690,614, 9-1-87, Cl. 416-43.000.

Keeton, Alvin R.: *See*—
Alexion, Christopher C.; Nathenson, Richard D.; and Keeton, Alvin R., 4,688,996, Cl. 417-50.000.

Keeton, J. Herbert. Automatic removal and stacking of sewn garments. 4,649,840, 3-17-87, Cl. 112-121.290.

Keeton, J. Herbert. Process and apparatus for stitching excess thread chain on a sewing machine. 4,679,515, 7-14-87, Cl. 112-262.100.

Keeton, Richard L. Method for preserving fishing nets. 4,710,407, 12-1-87, Cl. 427-389.900.

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Coburn, Richard J.; Dean, Walter C., II; Kegelman, Thomas D.; and Milliard, Norman L., 4,638,339, Cl. 346-153.100.

Kegler, Ernst: *See—*

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Kehe, Alfred W.; and Fetters, Thomas T., to Continental Can Company, Inc. Method of forming plastisol gaskets in container closures fabricated from synthetic plastic resins. 4,675,139, 6-23-87, Cl. 264-26.000.

Kehl, Charles W. Waste compactor apparatus. 4,649,813, 3-17-87, Cl. 100-227.000.

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Kehlenbach, Guenther, to H. Krantz GmbH & Co. High-temperature dyeing apparatus. 4,715,199, 12-29-87, Cl. 68-198.000.

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Kehne, Heinz; Mildenberger, Hilmar; Bauer, Klaus; and Bieringer, Hermann, to Hoechst Aktiengesellschaft. α-acyloximino-alkanephosphonic (and -phosphinic) acid esters. 4,652,666, 3-24-87, Cl. 558-175.000.

Kehoe, Michael J. File clips. 4,687,227, 8-18-87, Cl. 281-45.000.

Kehr, Edwin A. Hose reel system. 4,669,145, 6-2-87, Cl. 15-302.000.

Kehr, Helmut; and Denzel, Horst, to Huels Aktiengesellschaft. Coating compositions for a polymer-modified roofing and waterproofing sheet. 4,707,413, 11-17-87, Cl. 428-440.000.

Kehr, Helmut: *See—*

Berke, Fritz; Kehr, Helmut; and Kuhnle, Adolf, 4,661,163, Cl. 106-270.000.

Kehr, Wolfgang: *See—*

Aufdembrinke, Bernd; Dorow, Rainer; Horowski, Reinhard; Suchy, Irmgard; Schroeder, Gertrud; Wachtel, Helmut; Kehr, Wolfgang; and Stock, Gunter, 4,711,891, Cl. 514-313.000.

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Kehrer, Wolfgang, to Borsig GmbH. Device for cooling a reactor. 4,697,550, 10-6-87, Cl. 122-34.000.

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Keiichi, Uchida: *See—*

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Keiji, Iwabuchi, to Kawada Co., Ltd. Articulated doll arrangement. 4,643,691, 2-17-87, Cl. 446-97.000.

Keijzer, Paulus P. M.: *See—*

Muijs, Herman M.; and Keijzer, Paulus P. M., 4,693,311, Cl. 166-272.000.

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Keil, Karl-Heinz; Wullbrandt, Dieter; Keller, Reinhold; and Engelhardt, Friedrich, to Hoechst Aktiengesellschaft. Copolymer, a process for its preparation and its use as enzyme supports. 4,686,243, 8-11-87, Cl. 521-149.000.

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Keilhau, Karl F. Racket having rotatably adjustable handle. 4,693,475, 9-15-87, Cl. 273-73.00J.

Keilmann, Werner; Scholl, Hans; and Raupach, Gunter, to Koch Adler, AG. Method and apparatus for drawing a needle thread through a workpiece. 4,658,752, 4-21-87, Cl. 112-262.100.

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Slade, Michael G.; Moscicki, John M.; and Greene, John F., 4,671,772, Cl. 434-219.000.

Keim, Thomas A.; and Mayergoyz, Isaak D., to General Electric Company. Superconducting filter coils for high homogeneity magnetic field. 4,656,447, 4-7-87, Cl. 335-216.000.

Keime, Bernard M. Portable self-contained injector for perfusions, particularly in the case of road accident victims. 4,673,392, 6-16-87, Cl. 604-141.000.

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Keip, Charles P.: *See—*

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Keiper Recaro GmbH & Co.: *See—*

Cremer, Heinz P.; Wittig, Werner; and Voss, Hans W., 4,685,727, Cl. 297-180.000.

Cremer, Heinz P.; Wolsiefer, Harald; Hoffmann, Manfred; Deegener, Elmar; and Franzmann, Gunter, 4,713,986, Cl. 74-805.00

Deegener, Elmar; Voss, Hans W.; and Franzmann, Gunter, 4,685,739, Cl. 297-452.000.

Goldner, Walther; and Kramer, Horst, 4,663,537, Cl. 307-10.00R.

Putsch, Peter-Ulrich; and Cremer, Heinz P., 4,679,854, Cl. 297-486.000.

Walk, Hansjorg; and Wagener, Heinze-Jurgen, 4,715,656, Cl. 297-362.000.

Werner, Heinz; and Walk, Hansjorg, 4,708,392, Cl. 297-362.00

Keiper Recaro Incorporated: *See—*

Klueting, Bernd A., 4,641,887, Cl. 297-362.000.

Zaveri, Vikram; Heling, Dennis H.; and Radykis, Keith S., 4,634,180, Cl. 297-341.000.

Keir, Grant G. H.: *See—*

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Baer, Thomas M.; and Keirstead, Mark S., 4,653,056, Cl. 372-27.000.

Baer, Thomas M.; and Keirstead, Mark S., 4,656,635, Cl. 372-27.000.

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Keiser, Alan E.; and Mundt, Randall S., to NCR Corporation. Trench filling and planarization process. 4,671,970, 6-9-87, Cl. 427-93.000.

Keiser, Bernhard E., to Reinforced Earth Company, The. Panel system for shielding microwave antennas. 4,668,958, 5-26-87, Cl. 343-916.000.

Keiser, Robert J.: *See—*

Strangman, Thomas E.; and Keiser, Robert J., 4,668,579, Cl. 428-367.000.

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Asakura, Kunio, 4,644,511, Cl. 367-101.000.

Jindo, Takeo; and Suganuma, Ryosuke, 4,674,333, Cl. 73-606.000.

Keiswetter, Paul C., to Petoskey Plastics, Inc. Temporary protective seat cover. 4,676,376, 6-30-87, Cl. 206-494.000.

Keith, Charles H., to Brown & Williamson Tobacco Corporation. Method of manufacturing a tobacco smoke filter. 4,655,736, 4-7-87, Cl. 493-43.000.

Keith, George R.: *See—*

Cioffi, Paul L.; Donahoe, Thomas S.; and Keith, George R., 4,655,395, Cl. 239-427.000.

Keith & Grossman Leasing Co.: *See—*

Grossman, Stanley J., 4,646,493, Cl. 52-223.00R.

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Keith, Harold D.: *See—*

Davis, Robert L.; and Keith, Harold D., 4,636,115, Cl. 405-259.000.

Keith, John C.: *See—*

Clements, Brad; and Keith, John C., 4,697,048, Cl. 178-18.000.

Clements, Brad; and Keith, John C., 4,707,571, Cl. 178-18.000.

Keith, Lee E.: *See—*

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Keith, William C., to Texas Instruments Incorporated. Linear drive motor with symmetric magnetic fields for a cooling system. 4,713,939, 12-22-87, Cl. 62-6.000.

Keithahn, Julian D.: *See—*

Peterman, Charles P.; and Keithahn, Julian D., 4,635,678, Cl. 137-551.000.

Keithley, Cliff. Extruded aluminum sign frame section. 4,674,213, 6-23-87, Cl. 40-603.000.

Keithley, Howard W., Jr., to Keithley, Marie E.; Keithley, Steven W.; and Kelly, Gwenn M., part interest to each. Shape adaptable protective cushion device and method of making and using same. 4,694,774, 9-22-87, Cl. 114-361.000.

Keithley, Marie E.: *See—*
  Keithley, Howard W., Jr., 4,694,774, Cl. 114-361.000.

Keithley, Steven W.: *See—*
  Keithley, Howard W., Jr., 4,694,774, Cl. 114-361.000.

Keithly, David: *See—*
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Keivanjah, Massoud. Recreational water craft. 4,642,056, 2-10-87, Cl. 440-15.000.

Keizer, Klass: *See—*
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Keir, Melvin P. Vehicle for transporting elongated objects. 4,714,273, 12-22-87, Cl. 280-789.000.

Kekelia, Dzhemal I.: *See—*
  Gaprindashvili, Khanzerifa I.; Kogan, Vadim E.; Kekelia, Dzhemal I.; Pronkin, Alexei A.; Salukvadze, Nana A.; Bakuradze, Georgy V.; and Evstropiev, Konstantin K., deceased, 4,649,126, Cl. 501-43.000.

Kekewich, Douglas E.; and Nelson, Wendall, to Wash World Industries Limited. Washing apparatus. 4,715,079, 12-29-87, Cl. 15-97.00B.

Kekich, Ivica J. Foldable sled or toboggan. 4,648,611, 3-10-87, Cl. 280-20.000.

Keklak, Ronald; Couture, Michael V.; Whitehouse, John C.; and Payne, Marshall W., to Dedicated Technologies, Inc. Trailer creep alarm. 4,680,571, 7-14-87, Cl. 340-52.00R.

Keklak, Ronald; Couture, Michael V.; and Whitehouse, John C. Safe utility knife. 4,713,885, 12-22-87, Cl. 30-162.000.

Keklak, Ronald: *See—*
  Couture, Michael V.; and Keklak, Ronald, 4,659,535, Cl. 376-261.000.

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  Hansen, David E.; Kelbe, Richard R.; and Welcott, Dana W., 4,690,531, Cl. 354-149.110.

Kelber, Charles C. Combination lift thrust device. 4,666,104, 5-19-87, Cl. 244-12.100.

Kelber, John D. Leaf collection apparatus for blower-vacuums. 4,713,858, 12-22-87, Cl. 15-347.000.

Kelbert, Adam: *See—*
  Dolata, Hans; Fink, Reinhold; Itzrodt, Gerd; Kelbert, Adam; Ryssel, Siegfried; Wehle, Anton; Wieland, Dieter; and Zerrer, Gerhard, 4,644,658, Cl. 30-381.000.

Kelch, Heinz, to Mannesmann Kienzle GmbH. Hose connection. 4,648,634, 3-10-87, Cl. 285-356.000.

Kelch, Robert H., to Dow Chemical Company, The. Weatherable coextruded flexible films and laminated structure. 4,680,234, 7-14-87, Cl. 428-461.000.

Kelch, Russell K.; Finfrock, Don C.; Girard, Donald J.; Seevers, Daniel B.; Briggs, Barry D.; and Mathes, Gene R., to NCR Corporation. Polling method for data processing system. 4,683,531, 7-28-87, Cl. 364-200.000.

Kelchner, Raymond E., Jr., to Hughes Aircraft Company. Non-woven sheet by in-situ fiberization. 4,661,390, 4-28-87, Cl. 428-113.000.

Kelchner, Raymond E., Jr., to Hughes Aircraft Company. Non-woven sheet by in-situ fiberization. 4,662,836, 5-5-87, Cl. 425-223.000.

Kelco International Limited: *See—*
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Kelder, Jan; and Verheul, Hermanus A. M., to Akzo N.V. Steroids for use as immunomodulators. 4,701,450, 10-20-87, Cl. 514-177.000.

Kelderman, Gary L. Turntable with shock absorbing rotation lock. 4,676,171, 6-30-87, Cl. 104-45.000.

Keldmann, Erick C. V., to Elpan, Aps. Ceiling or wall unit. 4,679,617, 7-14-87, Cl. 165-56.000.

Keleher, Daniel B.: *See—*
  Brizgis, Lawrence J.; Keleher, Daniel B.; and Bandelow, Vernon D., 4,713,781, Cl. 364-552.000.

Kelem, Howard. Method and apparatus for automatic pressure packing of a food casing. 4,642,865, 2-17-87, Cl. 29-243.560.

Kelemen, Agnes; Jaksa, Istvan; Stefko, Bela; and Udvardy Nagy nee Cserey Pechany, Eva. Process for the treatment of fermentation broth containing vitamin B_{12} and other corrinoids and for the preparation of vitamin B_{12} concentrates. 4,657,859, 4-14-87, Cl. 435-86.000.

Kelemen, Jozsef: *See—*
  Bezzegh, Denes; Magyar, Karoly; Kelemen, Jozsef; Zalai, Gabor; Mandi, Attila; and Egri, Janos, 4,680,315, Cl. 514-738.000.

Kelian, Vatcho. Vertical grille. 4,647,758, 3-3-87, Cl. 2̸19-385.000.

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  Maile, Donald W.; and Kell, Furman D., 4,647,788, Cl. 307-117.000.

Kellams, Roger W.: *See—*
  House, Ronnalee; and Kellams, Roger W., 4,684,202, Cl. 439-752.000.

Kelland, David R.; and Takayasu, Makoto, to Massachusetts Institute of Technology. Method and apparatus for continuous magnetic separation. 4,663,029, 5-5-87, Cl. 209-214.000.

Kelland, David R., to Massachusetts Institute of Technology. Method for desulfurization of coal. 4,678,478, 7-7-87, Cl. 44-1.0SR.

Kelland, John W.: *See—*
  Candlin, John P.; Kelland, John W.; and Law, Peter L., 4,666,990, Cl. 525-268.000.

Kellar, Paul R. N.: *See—*
  Taylor, Richard J.; Kellar, Paul R. N.; and Hinson, Neil R., 4,709,393, Cl. 382-41.000.

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  Lau, Kreisler S. Y.; and Kelleghan, William J., 4,695,655, Cl. 568-56.000.
  Lau, Kreisler S. Y.; and Kelleghan, William J., 4,708,991, Cl. 525-275.000.

Kelleher, Denis M.: *See—*
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Kelleher, Thomas J.; and Nix, Paul T., to CooperBiomedical, Inc. Method of determining cystic fibrosis ciliostatic factor. 4,673,637, 6-16-87, Cl. 435-4.000.

Kellenberger, Stanley R.; and Zenker, David L., to Kimberly-Clark Corporation. Non-layered absorbent insert having Z-directional superabsorbent concentration gradient. 4,699,823, 10-13-87, Cl. 428-219.000.

Kellenberger, Stanley R.; Rajala, Gregory J.; and Stevens, Robert A., to Kimberly-Clark Corporation. Fixed position fasteners for disposable absorbent garments. 4,701,179, 10-20-87, Cl. 604-394.000.

Kellenberger, Stanley R.: *See—*
  Wilson, John C.; Stevens, Robert A.; Boland, Leona G.; Rajala, Gregory J.; and Kellenberger, Stanley R., 4,701,170, Cl. 604-385.00A.
  Wilson, John C.; Stevens, Robert A.; and Kellenberger, Stanley R., 4,701,176, Cl. 604-385.00A.

Keller AG fur Druckmesstechnik: *See—*
  Keller, Hans W.; and Von Ritter, Michael, 4,715,003, Cl. 364-571.000.

Keller, Alfred: *See—*
  Weitmann, Heinz; and Keller, Alfred, 4,660,965, Cl. 73-445.000.

Keller, Arnold, to Waldemar Link GmbH & Co. Joint endoprosthesis and instrument for knocking it in or out. 4,642,121, 2-10-87, Cl. 623-18.000.

Keller, Arnold, to Waldemar Link GmbH & Co. Anchoring rod for tubular bones. 4,657,549, 4-14-87, Cl. 623-16.000.

Keller, Arnold, to Waldemar Link GmbH & Co. Anchoring rod for tubular bones. 4,705,032, 11-10-87, Cl. 128-92.0YZ.

Keller, Arnold: *See—*
  Engelbrecht, Eckart; Nieder, Elmar; and Keller, Arnold, 4,645,507, Cl. 623-23.000.
  Link, Helmut D.; and Keller, Arnold, 4,641,749, Cl. 206-370.000.
  Link, Helmut D.; and Keller, Arnold, 4,698,063, Cl. 623-23.000.

Keller, Arnold P. Process for producing methanol from a feed gas. 4,650,814, 3-17-87, Cl. 518-703.000.

Keller, Egon, to Seitz-Filter-Werke Theo & Geo Seitz GmbH und Co. Filter element with permanently applied sealing strips. 4,671,873, 6-9-87, Cl. 210-232.000.

Keller, Ernie: *See—*
  Burke, Ken V.; Jamieson, Jon V.; and Keller, Ernie, 4,693,659, Cl. 414-131.000.

Keller, Ernst. Dip tube loader and handler apparatus. 4,686,816, 8-18-87, Cl. 53-536.000.

Keller, Felix; Kooijman, Ary A.; Engelsman, Robert; and Fischer, Werner K., to Swiss Aluminium Ltd. Process for concentrating waste products arising during the manufacture of carbon electrodes. 4,676,960, 6-30-87, Cl. 423-240.000.

Keller, Franz, to American Science and Engineering, Inc. Meter transponder hybrid. 4,638,314, 1-20-87, Cl. 340-870.020.

Keller, Guido; Spiess, Andreas; Ott, Hans; and Boegli, Rolf, to Gretag Aktiengesellschaft. Process and apparatus for evaluating printing quality and for regulating the ink feed controls in an offset printing machine. 4,649,502, 3-10-87, Cl. 364-519.000.

Keller, Hans: *See—*
  Hoffrichter, Ingo; Jung, Eggert; and Keller, Hans, 4,649,423, Cl. 358-80.000.

Keller, Hans-Peter: *See—*
  De Col, Beat; and Keller, Hans-Peter, 4,700,289, Cl. 364-150.000.

Keller, Hans W. Piezoresistive pressure measuring cell. 4,685,469, 8-11-87, Cl. 128-675.000.

Keller, Hans W.; and Von Ritter, Michael, to Keller AG fur Druckmesstechnik. Method for temperature compensation and measuring circuit therefor. 4,715,003, 12-22-87, Cl. 364-571.000.

Keller, Harold T.: *See—*
  Castner, Raymond P.; Olechovsky, David F.; Brown, Philip S.; Sinha, Susanta; Keller, Harold T.; and Cheng, Wenche W., 4,649,493, Cl. 364-472.000.
  Sinha, Susanta; Brown, Philip S.; Harman, Douglas G.; Keller, Harold T.; Olechovsky, David F.; and Cheng, Wenche W., 4,649,492, Cl. 364-472.000.

Keller, Heinz, to Ferd Ruesch AG. Device for pre-emulsifying of ink emulsion in offset printing apparatus. 4,703,690, 11-3-87, Cl. 101-142.000.

Keller, Heinz; Brocker, Heinz; and Lehner, Martin, to Ferd Ruesch AG. Process for making screen printing fabrics for screen printing cylinders. 4,705,608, 11-10-87, Cl. 204-28.000.

Keller, Henry C. Combination tool to pull up and remove socks, shorts and trousers. 4,638,932, 1-27-87, Cl. 223-111.000.

Keller, J. Walter, Jr. Simulated heart display system. 4,639,223, 1-27-87, Cl. 434-272.000.

- Keller, Jack; and Stringham, Glen E., to Utah State University Foundation. Method and system for furrow irrigation. 4,673,128, 6-16-87, Cl. 239-1.000.
- Keller, Jack W.: *See—*
  - Elam, Paul A., and Keller, Jack W., 4,683,930, Cl. 152-410.000.
- Keller, Jakob, to BBC Brown, Boveri & Company, Limited. Apparatus for cooling the charging air of a supercharged internal combustion engine. 4,665,714, 5-19-87, Cl. 62-401.000.
- Keller, Jakob: *See—*
  - Duerig, Thomas; Escudier, Marcel; and Keller, Jakob, 4,640,806, Cl. 264-9.000.
  - Hellat, Jaan, and Keller, Jakob, 4,679,393, Cl. 60-39.450.
  - Hellat, Jaan; and Keller, Jakob, 4,695,225, Cl. 415-189.000.
- Keller, James H. Camera support. 4,693,575, 9-15-87, Cl. 354-82.000.
- Keller, John A., Jr.: *See—*
  - Doner, John P.; Horodysky, Andrew G.; and Keller, John A., Jr., 4,655,948, Cl. 252-49.600.
- Keller, John E. Method and apparatus for removing and installing a partially fibrous camshaft gear. 4,688,313, 8-25-87, Cl. 29-238.000.
- Keller, John T.: *See—*
  - Compton, Russell A.; Keller, John T.; McBride, Thomas R.; and Kramer, David M., 4,673,880, Cl. 324-309.000.
- Keller, Joseph R., to AMP Incorporated. Electrical continuity tester for the connection of a terminal and an insulated lead. 4,654,580, 3-31-87, Cl. 324-51.000.
- Keller, Joseph R.; and Longenecker, Bruce C., to AMP Incorporated. Ultrasonic welding. 4,696,708, 9-29-87, Cl. 156-64.000.
- Keller, Kris. Automatic pool filler. 4,655,243, 4-7-87, Cl. 137-403.000.
- Keller, Manfred, to Kernforschungsanlage Julich Gesellschaft mit beschrankter Haftung. Proportional counter for detecting surface contaminations. 4,707,606, 11-17-87, Cl. 250-374.000.
- Keller, Michael, to Metabowerke GmbH & Co. Damping element, and its installation in a motor-driven hand tool. 4,667,749, 5-26-87, Cl. 173-162.00H.
- Keller, Michael R.: *See—*
  - Schwartz, Robert E.; Noble, Roger K.; and Keller, Michael R., 4,637,793, Cl. 431-202.000.
  - Schwartz, Robert E.; and Keller, Michael R., 4,652,232, Cl. 431-202.000.
- Keller, Moreau A., Jr. Spinal massage and exercise deivce. 4,688,556, 8-25-87, Cl. 128-57.000.
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  - Martinelli, Robert M., 4,674,019, Cl. 363-20.000.
- Keller, Paul M.: *See—*
  - Ellis, Ronald W.; Lowe, Robert S.; Keller, Paul M.; and Davison, Andrew J., 4,686,101, Cl. 424-88.000.
- Keller, Paul P., to Kellex Industries Ltd. Automatic ice machine. 4,662,183, 5-5-87, Cl. 62-138.000.
- Keller, Paul R. N.; Gawley, Robin A.; and Stewart, Ian M., to Quantel Limited. Video processing system using multi-head disc store. 4,688,106, 8-18-87, Cl. 358-342.000.
- Keller, Raymond E.: *See—*
  - Muenkel, Raymond L.; and Keller, Raymond E., 4,6[illegible],686, Cl. 313-402.000.
- Keller, Reinhold; and Schlingmann, Merten, to Hoechst Aktiengesellschaft. Process for the preparation of 5′-ribonucleotides. 4,649,111, 3-10-87, Cl. 435-89.000.
- Keller, Reinhold, to Hoechst Aktiengesellschaft. Preparation of alkyl N-maleylphenylalanate. 4,709,075, 11-24-87, Cl. 560-41.000.
- Keller, Reinhold: *See—*
  - Keil, Karl-Heinz; Wullbrandt, Dieter; Keller, Reinhold; and Engelhardt, Friedrich, 4,686,243, Cl. 521-149.000.
- Keller, Rene, to Emhart Industries, Inc. Inspection apparatus for inspecting articles moving on a conveyor. 4,649,503, 3-10-87, Cl. 364-552.000.
- Keller, Rene: *See—*
  - Schwar, Rudolf, 4,656,789, Cl. 51-105.00R.
- Keller, Roger L. Spring loaded clothes hanger. 4,673,116, 6-16-87, Cl. 223-94.000.
- Keller, Ron F., to GTE Government Systems Corporation. Method of extracting insulated wires from a shielded cable. 4,682,413, 7-28-87, Cl. 29-825.000.
- Keller, Stephen J., to University of Cincinnati. Virion assay method for use in in vitro screening of teratogens and carcinogens. 4,704,354, 11-3-87, Cl. 435-5.000.
- Keller, Thomas J.: *See—*
  - Hennon, Erin D.; and Keller, Thomas J., 4,710,038, Cl. 384-569.000.
- Keller, Urs: *See—*
  - Briner, Emil; and Keller, Urs, 4,646,513, Cl. 57-263.000.
  - Briner, Emil; and Keller, Urs, 4,669,258, Cl. 57-304.000.
- Keller, Werner. Device for clamping cutting inserts. 4,645,385, 2-24-87, Cl. 407-105.000.
- Keller, Wolfgang, to Siemens Aktiengesellschaft. Apparatus for doping semiconductor rods with solid dopants. 4,696,716, 9-29-87, Cl. 156-605.000.
- Kellerman, Eduardo: *See—*
  - Hitchcock, Robert B.; Kellerman, Eduardo; and Koons, John P., 4,700,016, Cl. 174-68.500.
- Kellermann, Guenter: *See—*
  - Conrad, Ulrich; Kellermann, Guenter; Breymayer, Angela; Klinker, Rolf; Schuldt, Oswald; Hoffmann, Rainer; and Fabian, Frank-Dietrich, 4,709,548, Cl. 60-280.000.
  - Hertweck, Gernot; Kappis, Fritz; Kellermann, Guenter; and Schalueck, Klaus, 4,697,569, Cl. 123-568.000.
- Kellerwessel, Hans: *See—*
  - Beisner, Klaus; Gemmer, Ludwig; Zisselmar, Raimund; and Kellerwessel, Hans, 4,703,897, Cl. 241-24.000.
- Kellett, George W.: *See—*
  - Smith, James A.; and Kellett, George W., 4,673,523, Cl. 252-91.00
- Kellett, James H.; Gaddis, Raymond W.; Fritts, Robert W.; and Schoenecker, David L., to Douglas Battery Manufacturing Co. Storage battery housing. 4,693,949, 9-15-87, Cl. 429-178.000.
- Kellex Industries Ltd.: *See—*
  - Keller, Paul P., 4,662,183, Cl. 62-138.000.
- Kelley, Anthony D.; Finley, James W.; Eachus, Vernon F.; Lim, Richard A.; and Yano, Miles K., to United States of America, Navy. Support for thermally expanding conical heatshield. 4,702,43 10-27-87, Cl. 244-158.00A.
- Kelley, Arthur W.; and Larsen, Charles J., to Raytheon Company. Klystron having fixed and variable tuning mechanisms. 4,661,75 4-28-87, Cl. 331-83.000.
- Kelley, Bennett W.: *See—*
  - Jensen, Norman E., and Kelley, Bennett W., 4,667,600, Cl. 102-254.000.
- Kelley, Brian A.: *See—*
  - Dvorsky, James E.; Kelley, Brian A.; McCown, Robert B.; and Renner, G. Frederick, 4,634,917, Cl. 310-328.000.
- Kelley, Bruce G.: *See—*
  - Love, Paul M.; and Kelley, Bruce G., 4,702,766, Cl. 75-34.000.
- Kelley, Charles D.: *See—*
  - Butts, Gene A.; Garsee, Henry A.; Kelley, Charles D.; Petty, Bruce R.; and Pauley, James L., 4,684,244, Cl. 356-39.000.
  - Butts, Gene A.; Kelley, Charles D.; Garsee, Henry A.; Petty, Bruce R.; and Pauley, James L., 4,697,236, Cl. 364-416.000.
- Kelley Company, Inc.: *See—*
  - Bennett, David E., deceased; and Bennett, Barbara L., personal representative, 4,641,388, Cl. 14-71.700.
  - Bennett, David E., deceased; and Bennett, Mark A., 4,671,029, Cl. 52-173.00S.
  - Bennett, Mark A., 4,638,612, Cl. 52-173.0DS.
  - Bennett, Mark A.; Hageman, Martin P.; and Delgado, Joseph M., 4,665,579, Cl. 14-71.100.
  - Bennett, Mark A., 4,682,382, Cl. 14-71.300.
  - Bennett, Mark A., 4,686,806, Cl. 52-309.400.
  - Erlandsson, Kjell I., 4,695,216, Cl. 414-401.000.
  - Fettig, Robert P.; Bushman, Matthew J.; and Miller, Glenn M., 4,679,364, Cl. 52-173.0DS.
  - Hageman, Martin P., 4,674,941, Cl. 414-401.000.
- Kelley, David C.: *See—*
  - Lancaster, Gerald M.; Kelley, David C.; Cramm, Russell H.; and Neywick, Charles V., 4,640,865, Cl. 428-421.000.
  - Lancaster, Gerald M.; and Kelley, David C., 4,660,354, Cl. 53-469.000.
  - Novak, Leo R.; Kelley, David C.; and Lau, Philip Y., 4,668,743, Cl. 525-356.000.
- Kelley, Don H.: *See—*
  - Mobley, Larry W., and Kelley, Don H., 4,696,849, Cl. 428-95.000.
- Kelley, Franklyn F. Enthalpic evaporative air conditioning device with heating. 4,658,600, 4-21-87, Cl. 62-311.000.
- Kelley, Frederick T., to McClure, William E., a part interest. Dart board assembly for an electronic dart game. 4,635,940, 1-13-87, Cl. 273-347.000.
- Kelley, Henry L., and Wilson, John C., to United States of America National Aeronautics and Space Administration. Helicopter antitorque system using fuselage strakes. 4,708,305, 11-24-87, Cl. 244-17.190.
- Kelley, James O., to Herman Miller, Inc. Work space management system. 4,685,255, 8-11-87, Cl. 52-36.000.
- Kelley, John. Safety bottle closure having a time indicator. 4,634,012, 1-6-87, Cl. 215-203.000.
- Kelley, John. Safety bottle closure having a time indicator. 4,641,759, 2-10-87, Cl. 215-220.000.
- Kelley, Norman B. Air temperature control system. 4,674,561, 6-23-87, Cl. 165-45.000.
- Kelley, Paul E.: *See—*
  - Fies, William J., Jr.; Kelley, Paul E.; Reynolds, Walter E.; Stafford, George C., Jr.; and Syka, John E. P., 4,650,999, Cl. 250-282.000.
  - Louris, John N.; Syka, John E. P.; and Kelley, Paul E., 4,686,367, Cl. 250-290.000.
- Kelley, Richard. Videocassette display rack. 4,650,080, 3-17-87, Cl. 211-41.000.
- Kelley, Robert J. Thermo light handle. 4,656,566, 4-7-87, Cl. 362-202.000.
- Kelley, Roy C.: *See—*
  - Ames, Kenneth R.; Doesburg, James M.; Eschbach, Eugene A.; Kelley, Roy C.; and Myers, David A., 4,669,536, Cl. 166-68.000.
- Kelley, Stephen H.: *See—*
  - Wurzburg, Henry; Kelley, Stephen H.; and McCroskey, Noel M., 4,689,788, Cl. 370-110.100.
- Kelley, Thomas J.: *See—*
  - Coburn, David E., 4,643,271, Cl. 181-210.000.
- Kelley, William, to Mattel, Inc. Articulated limb assemby for figure toy. 4,673,374, 6-16-87, Cl. 446-383.000.
- Kelley, William J.; and Wittenberg, Mark, to Mattel, Inc. Motion delay mechanism for animated figure toy. 4,657,518, 4-14-87, Cl. 446-354.000.
- Kelley, William J.: *See—*
  - Brzezinski, Ryszard J.; and Kelley, William J., 4,655,726, Cl. 446-268.000.

Kellie, James L. F.; and Cowell, Andrew J. J., to London & Scandinavian Metallurgical Co. Limited. Grain refining metals. 4,708,739, 11-24-87, Cl. 75-76.000.

Kellie, Truman F.; Motz, Teresa M.; Manley, Mark B.; and Donaldson, Charles W., to General Electric Company. Endoscope. 4,659,221, 4-21-87, Cl. 356-241.000.

Kellis, Warren D.; King, Daniel; and Rice, Lyle, to Wolverine Technologies, Inc. Plastic siding mounting system. 4,669,238, 6-2-87, Cl. 52-105.000.

Kellison, Roger C. Grout in place fastener system. 4,642,964, 2-17-87, Cl. 52-699.000.

Kelln, Norman G., to Fisher Scientific Company. Centrifugal analyzer. 4,680,164, 7-14-87, Cl. 422-72.000.

Kellner, Gerd: *See—*
Bertiller, Roland; Kellner, Gerd; and Reudelsterz, Helmut, 4,633,755, Cl. 89-29.000.
Bertiller, Roland; Kellner, Gerd; and Reudelsterz, Helmut, 4,642,928, Cl. 42-77.000.

Kellner, Maximilian: *See—*
Wania, Wolfgang; Wahl, Jurgen; and Kellner, Maximilian, 4,677,068, Cl. 435-197.000.

Kellner, Roman; Mayr, Georg; Proksch, Karl-Heinz; and Pockl, Franz, to Kuka Schweissanlagen & Roboter GmbH. Mechanism for automatically positioning clamping frames. 4,638,902, 1-27-87, Cl. 198-345.000.

Kellner, Urs. Method for producing male conical threads. 4,689,984, 9-1-87, Cl. 72-402.000.

Kellner, Urs: *See—*
Spang, Konrad; Herbst, Thomas; and Kellner, Urs, 4,652,179, Cl. 405-260.000.

Kellogg, Edwin M.; Dobbs, John M.; Dunn, Gregory J.; Kaufmann, Henry C.; and Thompson, William, to Ion Beam Systems, Inc. Augmented carbonaceous substrate alteration. 4,698,236, 10-6-87, Cl. 427-43.100.

Kellogg, Joseph A., and Prather, James E., to Non Mar, Inc. Automotive body tool. 4,677,840, 7-7-87, Cl. 72-465.000.

Kellogg, Michael S., to Pfizer Inc. 6-β-substituted penicillanic acid compound free of the 6-α-epimer. 4,656,263, 4-7-87, Cl. 540-310.000.

Kellogg, Richard A.: *See—*
Seymour, Robert A.; Ritter, Allen M.; Kellogg, Richard A.; and D'Atre, John D., 4,698,577, Cl. 318-805.000.

Kellogg, Robert L.; Zimmerman, Roger W.; and Bryan, Carney J., to Blue Bell, Inc. Method for processing fabric pieces in a cut and sew operation. 4,708,073, 11-24-87, Cl. 112-262.300.

Kellogg, Robert M.: *See—*
Mulzet, Alfred P., and Kellogg, Robert M., 4,647,279, Cl. 494-45.000.

Kells Medical, Incorporated: *See—*
Sheehan, Joseph C. M., 4,702,251, Cl. 128-335.000.

Kellstrom, Magnus, to Aktiebolaget SKF. Radial rolling bearing. 4,705,411, 11-10-87, Cl. 384-450.000.

Kelly, Alison O. Security device for young children. 4,688,564, 8-25-87, Cl. 128-133.000.

Kelly, Arnold J.: *See—*
Mintz, Donald J.; Kelly, Arnold J.; and Gleason, Anthony M., 4,661,226, Cl. 204-186.000.

Kelly, Bill: *See—*
Lindberg, Warren N., 4,669,450, Cl. 128-25.00B.

Kelly, Bill A.: *See—*
Lemon, Chester L., and Kelly, Bill A., 4,674,041, Cl. 364-401.000.

Kelly, Brian, to Isothermic Engineering & Research Limited. Manufacture of casings for quilted articles. 4,665,849, 5-19-87, Cl. 112-155.000.

Kelly, David J., and Cacciatore, Paul J., to Scotfoam Corporation. Process for preparing in situ reticulated polyurethane foam. 4,656,196, 4-7-87, Cl. 521-52.000.

Kelly, David J., and Cacciatore, Paul J., to Scotfoam Corporation. Process for preparing in situ reticulated polyurethane foam. 4,670,477, 6-2-87, Cl. 521-52.000.

Kelly, David L.: *See—*
Grist, Warren W.; and Kelly, David L., 4,640,491, Cl. 249-219.00W.

Kelly, Donald G.; and Nebesh, Eugene, to Harshaw/Filtrol Partnership. Extruded copper chromite-alumina hydrogenation catalyst. 4,666,879, 5-19-87, Cl. 502-244.000.

Kelly, Frank M., to Aluminum Company of America. Finger assembly for a screwcapping head. 4,674,263, 6-23-87, Cl. 53-317.000.

Kelly, Frank M.: *See—*
Ellis, Darwin L.; and Kelly, Frank M., 4,633,646, Cl. 53-331.500.

Kelly, George G.; and Welburn, David J., to CXA Ltd. Explosive shock tube having lateral initiation properties. 4,699,059, 10-13-87, Cl. 102-275.700.

Kelly, George G.; McLaughlin, Henry; and Simon, James R., to CXA Ltd./CXA LTEE. Pyrotechnic variable delay connector. 4,714,017, 12-22-87, Cl. 102-275.300.

Kelly, Gordon E.; Krishnamurthy, Gopalan; and Rypkema, Jouke N., to Zenith Electronics Corporation. Automatic frequency response correction using color burst. 4,649,420, 3-10-87, Cl. 358-38.000.

Kelly, Gwenn M.: *See—*
Keithley, Howard W., Jr., 4,694,774, Cl. 114-361.000.

Kelly Industries, Inc.: *See—*
Baldino, Micheal; Voss, Robert L.; and Hladik, Larry L., 4,706,554, Cl. 98-121.200.

Kelly, James D.: *See—*
Cumming, Stephen A., and Kelly, James D., 4,642,229, Cl. 424-1.100.

Kelly, James E.: *See—*
Daubendiek, Richard L.; Dickerson, Robert E.; and Kelly, James E., 4,639,411, Cl. 430-510.000.

Kelly, James S. Convection oven with hard-wood smoke generator. 4,669,447, 6-2-87, Cl. 126-59.500.

Kelly, Jeffrey P.: *See—*
Block, Hermann; and Kelly, Jeffrey P., 4,687,589, Cl. 252-73.000.

Kelly, John A.; Grattan, David A.; and Oberhofer, Alfred W., to Nalco Chemical Company. Use of benzo and tolyltriazole as copper corrosion inhibitors for boiler condensate systems. 4,657,785, 4-14-87, Cl. 427-255.600.

Kelly, John A.: *See—*
Young, Paul R.; Koutek, Mary E.; and Kelly, John A., 4,680,124, Cl. 210-697.000.

Kelly, John C., to Texas Instruments Incorporated. MOS integrated circuit having a metal programmable matrix. 4,649,413, 3-10-87, Cl. 357-41.000.

Kelly, John C.; and Kentwell, Glenn W., to Unisearch Limited. Ion and electron beam steering and focussing system. 4,672,615, 6-9-87, Cl. 372-2.000.

Kelly, John C.; and Kentwell, Glenn W., to Unisearch Limited. Methods of steering and focusing ion and electron beams. 4,694,457, 9-15-87, Cl. 372-2.000.

Kelly, John E.; Jones, Don C.; Tuck, Frederick R.; Zimmermann, William A.; and Clark, Kenneth R., to Lancraft, Inc. Microtiter plate reader. 4,710,031, 12-1-87, Cl. 356-440.000.

Kelly, John F., to Teradyne, Inc. Circuit device for connection to contacts in a row. 4,688,865, 8-25-87, Cl. 439-79.000.

Kelly, Joseph F., to ITT Corporation. Filter connector. 4,647,122, 3-3-87, Cl. 339-14.00R.

Kelly, Joseph L., Jr.; Howard, Mig A.; Nysen, Paul A.; and Hacking, Colin A., to Hughes Tool Company. Surface acoustic wave pipe identification system. 4,698,631, 10-6-87, Cl. 340-853.000.

Kelly, Kenneth C. Dual polarization flat plate antenna. 4,716,415, 12-29-87, Cl. 343-771.000.

Kelly, Kevin. Non-wicking siding. 4,665,675, 5-19-87, Cl. 52-534.000.

Kelly, Kevin A. CHEMFET operation without a reference electrode. 4,716,448, 12-29-87, Cl. 357-25.000.

Kelly, Kevin P.: *See—*
Hsu, Edward C.; Merchant, Philip, Jr.; Smith, Dean L., Jr.; Kelly, Kevin P.; and Lacy, Sylvia M., 4,692,237, Cl. 208-177.000.

Kelly, L. Thomas; Hamel, Esther V. M.; and Bielka, Robert P. Implanted anchor and insert with analog display. 4,701,180, 10-20-87, Cl. 604-891.000.

Kelly, L. Thomas; Hamel, Esther V. M.; and Bielka, Robert P. Implanted muscle powered drug dispensing system. 4,713,054, 12-15-87, Cl. 604-89.000.

Kelly, Lawrence R., Jr. Communication system especially useful as an incident location reporting security system. 4,670,739, 6-2-87, Cl. 340-539.000.

Kelly, Michael A.; Beigel, Bruce G.; and Logan, Emmanuel L., Jr., to Reliable Security Systems, Inc. Magnetic door lock with time delay option. 4,703,962, 11-3-87, Cl. 292-251.500.

Kelly, Michael A., to Kevex Corporation. Charged particle energy analyzer based upon isentropic containment. 4,710,625, 12-1-87, Cl. 250-305.000.

Kelly, Michael A.: *See—*
Logan, Emanuel L.; Kelly, Michael A.; and Beigel, Bruce G., 4,652,028, Cl. 292-251.500.

Kelly, Michael D.; and Kramer, Daniel P., to United States of America, Energy. Production of glass or glass-ceramic to metal seals with the application of pressure. 4,705,585, 11-10-87, Cl. 156-89.000.

Kelly, Michael J.: *See—*
Davies, Richard A.; and Kelly, Michael J., 4,645,707, Cl. 428-213.000.

Kelly, Michael N.; Foster, John B.; and Foster, Robert D., to Research Medical, Inc. Venous return catheter. 4,639,252, 1-27-87, Cl. 604-282.000.

Kelly, Michael W.; and Patterson, Laura B. Wrench socket. 4,699,029, 10-13-87, Cl. 81-121.100.

Kelly, Patrick S.; Oswald, Thomas; Jeal, Alan J.; Hill, Stephen E.; and Murphy, Robert, to STC PLC. Power feeding submarine telecommunications systems. 4,641,372, 2-3-87, Cl. 455-601.000.

Kelly, Paul R., to Thermatic Glass, Inc. Thermal insulated and shock resistant window assembly. 4,669,241, 6-2-87, Cl. 52-400.000.

Kelly, Paul R., to National Starch and Chemical Corporation. Primary treatment of wastewater. 4,670,158, 6-2-87, Cl. 210-705.000.

Kelly, Philip L.: *See—*
Szirmai, Stephen G.; Newman, Gerard R.; and Kelly, Philip L., 4,701,941, Cl. 378-122.000.

Kelly, Ralph M., to Cynara Company, The. Process for separating CO_2 from other gases. 4,659,343, 4-21-87, Cl. 55-16.000.

Kelly, Renee J., to Du Pont de Nemours, E. I., and Company. Process for matching color of paint to a colored surface. 4,692,481, 9-8-87, Cl. 523-219.000.

Kelly, Richard E.: *See—*
Aldrich, Roger L.; Bodett, Peter C.; and Kelly, Richard E., 4,641,502, Cl. 62-244.000.

Kelly, Richard P.; and Joyce, Thomas F., to Honeywell Information Systems Inc. Distributed control store word architecture. 4,670,835, 6-2-87, Cl. 364-200.000.

Kelly, Richard P.: *See—*
Joyce, Thomas F.; and Kelly, Richard P., 4,641,305, Cl. 371-12.000.

Kelly, Rickey L.: *See—*
Horn, Charles; Kelly, Rickey L.; Orendorf, Thomas E.; and Kiger, Terry L., 4,684,309, Cl. 414-224.000.

Kelly, Robert D.; and Yatsko, Lawrence T., to Southwest Wire Rope, Inc. Socket for mounting on the end of a steel cable. 4,642,854, 2-17-87, Cl. 24-265.00R.

Kelly, Robert J.; and Cusick, Danny R., to Allied Corporation. Median filter for reducing data error in distance measuring equipment. 4,672,567, 6-9-87, Cl. 364-572.000.

Kelly, Robert J., and Kelly, Tadhg, to Communication Devices, Inc. Modem use monitor. 4,710,929, 12-1-87, Cl. 371-22.000.

Kelly, Robert R., to Borg-Warner Corporation. Pressure-biased, temperature sensor. 4,652,854, 3-24-87, Cl. 340-60.000.

Kelly, Robert R., to Borg-Warner Corporation. Pressure-biased, temperature sensor. 4,663,608, 5-5-87, Cl. 340-60.000.

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Kelly, Ronald J. Solar heating system. 4,649,901, 3-17-87, Cl. 126-429.000.

Kelly, Samuel T., to Robertshaw Controls Company. Fuel control valve construction, parts therefor and methods of making the same. 4,643,391, 2-17-87, Cl. 251-85.000.

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Kelly, Stephen M., to Merck Patent Gesellschaft mit beschrankter Haftung. Nematic compounds. 4,637,897, 1-20-87, Cl. 252-299.630.

Kelly, Stephen M.: *See—*

Schad, Hans P.; and Kelly, Stephen M. 4,710,315, Cl. 252-299.630.

Kelly, Steven G.: *See—*

Zupkas, Paul F.; Servas, Francis M.; Pavlov, Todor; and Kelly, Steven G., 4,642,089, Cl. 604-4.000.

Kelly, Steven M. Modular electrical wiring track arrangement. 4,688,869, 8-25-87, Cl. 439-209.000.

Kelly, Tadhg: *See—*

Kelly, Robert J.; and Kelly, Tadhg, 4,710,929, Cl. 371-22.000.

Kelly, Thomas L. Reroofing with sloping plateau forming insulation. 4,642,950, 2-17-87, Cl. 52-90.000.

Kelly, Thomas L. Gum-tape plate bonded roofing system. 4,688,361, 8-25-87, Cl. 52-173.00R.

Kelly, Thomas P.: *See—*

Tarrson, Emanuel B.; Maric, Dane; and Kelly, Thomas P., 4,691,404, Cl. 15-167.00R.

Kelly, William J.: *See—*

Astheimer, Robert W.; and Kelly, William J., 4,707,605, Cl. 250-347.000.

Glasser, George M.; DeRobertis, Robert P.; Smithwrick, John H.; and Kelly, William J., 4,711,979, Cl. 219-10.55D.

Kelm, Daniel W., to Flexi-Coil Ltd. Method of uniformly distributing granular material. 4,685,843, 8-11-87, Cl. 406-181.000.

Kelm, James S.; Maclin, Harvey M.; Vickers, Edward C., and Wakeman, Thomas G., to General Electric Company. Variable turbine vane support. 4,679,400, 7-14-87, Cl. 60-722.000.

Kelm, James S.; Ludwig, Arthur L.; Maclin, Harvey M.; Roggenkamp, Steven K.; and Wakeman, Thomas G., to General Electric Company. Fabricated liner article and method. 4,688,310, 8-25-87, Cl. 29-156.80R.

Kelm, Roger W., to Duracell Inc. Metal/air cell. 4,640,874, 2-3-87, Cl. 429-27.000.

Kelm, Thomas J.: *See—*

Prindle, Gordon E.; and Kelm, Thomas J., 4,687,465, Cl. 604-61.000.

Kelm, Wieland: *See—*

Kugeler, Kurt; Jaroni, Ulrich; Kelm, Wieland; Phlippen, Peter W.; Schmidtlein, Peter; and Kugeler, Manfred, 4,634,875, Cl. 250-506.100.

Kelman, Charles D. Posterior chamber lens implant. 4,648,878, 3-10-87, Cl. 623-6.000.

Kelman, Charles D. Posterior chamber intraocular lens. 4,648,879, 3-10-87, Cl. 623-6.000.

Kelman, Charles D. Deformable intraocular lens. 4,664,667, 5-12-87, Cl. 623-6.000.

Kelman, Charles D. Intraocular lens. 4,676,794, 6-30-87, Cl. 623-6.000.

Kelman, Charles D. Intraocular lens with glare-inhibiting closure, the method of inhibiting glare, and the closure for same. 4,678,469, 7-7-87, Cl. 623-6.000.

Kelman, Charles D. Intraocular lens with optic of expandable hydrophilic material. 4,710,194, 12-1-87, Cl. 623-6.000.

Kelman, Lloyd S.: *See—*

Cleary, Patrick J.; Kelman, Lloyd S.; and Horn, Richard L., 4,638,437, Cl. 364-427.000.

Kelmar, John J. Oxygen blast furnace for direct steel making. 4,670,049, 6-2-87, Cl. 75-41.000.

Kelner, Robert. Package assembly with testing feature for illuminated product. 4,702,374, 10-27-87, Cl. 206-418.000.

Kelsall, Jeffrey C., to Cooper Industries. Thermally protected lamp holder housing for use in recess lighting fixtures. 4,655,422, 4-7-87, Cl. 248-56.000.

Kelsey, Diane M.: *See—*

Al-Shaar, Adnan H.; Broughton, Barbara J.; Chambers, Robert K.; Gilmour, David W.; Kelsey, Diane M.; Lowden, Peter; Lunt, Edward; Lythgoe, David J.; McClenaghan, Ian; McDougall, Duncan C.; Saunders, Libert C.; Stuttle, Keith A. J.; and Warne, Peter J., 4,659,727, Cl. 514-370.000.

Kelsey, Donald R., to Amoco Corporation. Process for preparing poly(aryl ether ketone)s. 4,638,044, 1-20-87, Cl. 528-125.000.

Kelsey-Hayes Company: *See—*

Every, Peter; Fuller, Edward N., and Ayers, David T., 4,668,023, Cl. 303-100.000.

Every, Peter; Atkins, Thomas M.; Miller, Roger L.; and Tribe, Leonard T., 4,673,226, Cl. 303-109.000.

Rozmus, Walter J., 4,702,357, Cl. 188-79.5GC.

Stimson, Donald B., 4,668,008, Cl. 296-155.000.

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Kelsey, John R. Steady rest for valve grinding apparatus. 4,715,149, 12-29-87, Cl. 51-241.0VS.

Kelso, Frederick J.: *See—*

Hensler, Paul L.; Kelso, Frederick J.; Wolfe, Gary E., and Zeh, Peter H., 4,656,019, Cl. 423-315.000.

Kelso, William C.: *See—*

Hein, Richard W.; and Kelso, William C., 4,649,065, Cl. 427-370.000.

Kelson, Arnold A. Method for handlebar grip installation. 4,653,170, 3-31-87, Cl. 29-450.000.

Kelton, Arden A., to Environmental Diagnostics, Inc. Suspension liquid separator. 4,696,797, 9-29-87, Cl. 422-101.000.

KemaNord AB: *See—*

Holmstrom, Ulla-Kari M.; Sandgren, Lage M.; Norell, Maria G.; and Axegård, Peter A., 4,678,654, Cl. 423-478.000.

Norell, Maria G.; and Wanngard, Johan C., 4,678,653, Cl. 423-478.000.

Kember, Christopher J.: *See—*

Bradford, Peter F.; Bungay, Michael R., and Kember, Christopher J., 4,646,703, Cl. 123-557.000.

Kembo, Yukio: *See—*

Komeyama, Yoshihiro; Kembo, Yukio; Kuni, Asahiro; Funatsu, Ryuuichi; Inagaki, Akira; Ikeda, Minoru; and Okamoto, Keiichi, 4,708,484, Cl. 356-401.000.

Taniguchi, Motoya; Kuni, Asahiro; Funatsu, Ryuichi; Kembo, Yukio; and Inagaki, Akira, 4,666,291, Cl. 355-52.000.

Kemeny, Gabor: *See—*

Szekely, Tibor; Tyihak, Erno ; Mincsovics, Emil; Remenyi nee Korodi, Zsuzsa; Peterfi, Laszlo; Kemeny, Gabor; and Takacs, Gabor, 4,671,871, Cl. 210-198.300.

Tompa, Ildiko F.; Nagy, Attila; Tyihak, Erno; Nyiredy, Szabolcs; Petri, Gizella V.; Meszaros, Sandor; Szepesy, Laszlo; Vida, Laszlo ; Mincsovics, Emil; Kemeny, Gabor; and Barany, Piroska, 4,671,870, Cl. 210-149.000.

Tyihak, Erno; Mincsovics, Emil; Zoltan, Sandor; Kemeny, Gabor; Mathuny, Aniko; Szekely, Tibor; Nemeth, Sandor; Antal, Zsuzsanna; and Fater, Zsuzsanna, 4,658,000, Cl. 526-217.000.

Kemeny, George A., to Westinghouse Electric Corp. Electromagnetic launcher rail temperature reduction through controlled breech current injection. 4,679,484, 7-14-87, Cl. 89-8.000.

Kemeny, George A., to Westinghouse Electric Corp. Electromagnetic launcher with a passive inductive loop for rail energy retention or dissipation. 4,714,003, 12-22-87, Cl. 89-8.000.

Kemeny, George A.: *See—*

Carlson, Richard J., and Kemeny, George A., 4,677,895, Cl. 89-8.000.

Kemerer, Beverly K., to Dow Corning Corporation. Cleaning and waterproofing composition. 4,708,807, 11-24-87, Cl. 252-8.600.

Kemira Oy: *See—*

Kari, Esko T.; Aaltonen, Jarmo; and Suokas, Elias U., 4,687,571, Cl. 209-167.000.

Lammi, Pekka T., 4,662,929, Cl. 71-35.000.

Kemka, Rudy F., to United States of America, Navy. Connector/nitinol Δ contact force device. 4,634,201, 1-6-87, Cl. 339-30.000.

Kemlage, Bernard M.: *See—*

Joy, Richard C.; Kemlage, Bernard M.; and Mauer, John L., IV, 4,688,069, Cl. 357-34.000.

Kemler, Craig G.: *See—*

Covert, Charles H.; Gifford, William E.; Kemler, Craig G., and Paddock, Gordon R., 4,714,485, Cl. 55-189.000.

Kemmer, Hans-Johann: *See—*

Sick, Georg; Stenzel, Otto; Kohnert, Heinz; and Kemmer, Hans-Johann, 4,658,404, Cl. 373-143.000.

Kemmerer, Klemens; Gensheimer, Valentin; and Melzer, Rudolf, to M. A. N. Roland Druckmaschinen Aktiengesellschaft. Chain conveyor for the delivery device of printing presses. 4,693,362, 9-15-87, Cl. 198-803.700.

Kemmerer, Klemens, and Hummel, Peter, to M.A.N.-Roland Druckmaschinen Aktiengesellschaft. Inking roller for printing machines. 4,712,475, 12-15-87, Cl. 101-348.000.

Kemmerer, Richard R.: *See—*

Morris, William J., deceased; Kemmerer, Richard R., and Christinas, Byron K., 4,687,806, Cl. 524-765.000.

Kemmeter, Robert G.: *See—*

Keene, John F.; Kuller, Bengt L.; and Kemmeter, Robert G., 4,673,142, Cl. 242-58.300.

Kemmler, Ralf-Rainer, to Stihl, Andreas. Motor-driven chain saw. 4,694,578, 9-22-87, Cl. 30-383.000.

Kemna, Johannes W.: *See—*

Op de Beek, Franciscus J.; and Kemna, Johannes W., 4,677,389, Cl. 330-129.000.

Kemner, John B. Tractor-truck conversion. 4,662,670, 5-5-87, Cl. 296-35.300.

Kemner, Rudolf; and Reuvers, Gerardus L. J., to U.S. Philips Corporation. Nuclear magnetic resonance apparatus having a communication system. 4,689,565, 8-25-87, Cl. 324-309.000.

Kemner, Rudolf; Kalmijn, Hilco T., and Van Heelsbergen, Teunis R., to U.S. Philips Corporation. MR-apparatus having a transmission-measuring coil for high frequencies. 4,707,662, 11-17-87, Cl. 324-318.000.

Kemner, Rudolf; and Kalmijn, Hilco T., to U.S. Philips Corporation. Magnetic resonance imaging apparatus including two orthogonal r.f. coils. 4,712,069, 12-8-87, Cl. 324-322.000.

Kemnetz, Steven J.: *See—*

Finlayson, Claude M.; Cody, Charles A.; Kemnetz, Steven J.; Reichert, William W.; Magauran, Edward D.; and Johnson, Johnny R., 4,695,402, Cl. 252-315.200.

Magauran, Edward D.; Cody, Charles A.; Reichert, William W.; Kieke, Mauriello D.; Kemnetz, Steven J.; and Chiavoni, Araxi, 4,664,820, Cl. 252-28.000.

Kemnitz, Tadeusz: *See—*

Moran, Michael J.; and Kemnitz, Tadeusz, 4,681,176, Cl. 177-114.000.

Kemnitz, Todd: *See—*

Helmsdorfer, Robert J.; Kemnitz, Todd; and Blaney, Robert J., 4,688,747, Cl. 248-56.000.

Kemp, Alan F.: *See—*

Wendt, David W.; Bullis, Daniel R., Jr.; Kemp, Alan F.; and Suzda, Gregory R., 4,662,664, Cl. 292-19.000.

Wendt, David W.; Bullis, Daniel R., Jr.; Kemp, Alan F.; and Suzda, Gregory R., 4,664,304, Cl. 226-127.000.

Kemp, Charles W., to Canadian Corporate Management Co., Ltd. Load sensing systems for conveyor weigh scales. 4,682,664, 7-28-87, Cl. 177-16.000.

Kemp, David M., and Jones, Hartl R., to Figgie International Inc. Liquid proportioner. 4,669,496, 6-2-87, Cl. 137-209.000.

Kemp, Dennis E., Jr. Junction device for auger conveyors. 4,641,743, 2-10-87, Cl. 198-666.000.

Kemp, Jack A.: *See—*

Deem, Brian C., and Kemp, Jack A., 4,638,900, Cl. 192-85.0CA.

Kemp, Louis F., Jr. Book holder. 4,645,236, 2-24-87, Cl. 281-42.000.

Kemp, Martin, to Hugh Steeper Limited. Elbow lock mechanism. 4,636,221, 1-13-87, Cl. 623-59.000.

Kemp, Melvin T. Snap together window well. 4,704,828, 11-10-87, Cl. 52-107.000.

Kemp, Paul C.; and Lyons, Walter, to Ashland Oil, Inc. Stabilized coal oil mixtures. 4,711,643, 12-8-87, Cl. 44-51.000.

Kemp, Philip, to J. E. Morgan Knitting Mills, Inc. Insulating fabric and method of manufacture thereof. 4,678,693, 7-7-87, Cl. 428-91.000.

Kemp, Preston B., Jr.; Johnson, Walter A.; and Steigelman, James Q., to GTE Products Corporation. Process for producing metallic powders. 4,705,560, 11-10-87, Cl. 75-0.50B.

Kemp, Preston B., Jr.; and Johnson, Walter A., to GTE Products Corporation. Spherical precious metal based powder particles and process for producing same. 4,711,660, 12-8-87, Cl. 75-0.50B.

Kemp, Preston B., Jr.; and Johnson, Walter A., to GTE Products Corporation. Spherical copper based powder particles and process for producing same. 4,711,661, 12-8-87, Cl. 75-0.50B.

Kemp, Richard A., to Shell Oil Company. Hydrotreating catalysts prepared from hydrogels. 4,716,140, 12-29-87, Cl. 502-211.000.

Kemp, Richard A., to Shell Oil Company. Hydrotreating catalysts prepared from hydrogels. 4,716,141, 12-29-87, Cl. 502-211.000.

Kemp, Vincent M.: *See—*

Marotto, Robert A.; Kemp, Vincent M.; and Holmes, Henry A., Jr., 4,671,549, Cl. 292-333.000.

Kempa, Bernd-Joachim, to Elektro-Thermit GmbH. Grooved rail switch with a tongue rail device. 4,634,087, 1-6-87, Cl. 246-430.000.

Kempas, Hagen, to Bodenseewerk Geratetechnic GmbH. Method of making dynamically tuned gimbal suspension. 4,665,605, 5-19-87, Cl. 29-434.000.

Kempe, Frieder K. Method and article for pain reduction using radiation-shielding textile. 4,653,473, 3-31-87, Cl. 128-1.00R.

Kempe, Tomas; Purchio, Anthony F.; Collett, Marc S.; and DeLorbe, William J., to Molecular Genetics Research and Development Limited Partnership. Molecular cloning of RNA using RNA ligase and synthetic oligonucleotides. 4,661,450, 4-28-87, Cl. 435-172.300.

Kempe, Tomas G. Calcitonin analogs with amino acid substituents at position 31. 4,644,054, 2-17-87, Cl. 530-307.000.

Kempe, Tomas G.; and Chow, Flora. Calcitonin analogs with C-terminal D-amino acid substituents. 4,652,627, 3-24-87, Cl. 530-307.000.

Kempe, Tomas G. Synthetic peptides with calcitonin-like activity. 4,658,014, 4-14-87, Cl. 530-307.000.

Kempe, Tomas G. Calcitonin gene related peptide analogs with C-terminal D-amino acid substituents. 4,687,839, 8-18-87, Cl. 530-324.000.

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Kempe, Uwe; and Dockner, Toni, to BASF Aktiengesellschaft. Preparation of 2-alkyl-4,5-dihydroxymethylimidazoles. 4,658,035, 4-14-87, Cl. 548-342.000.

Kempe, Uwe; Dockner, Toni; and Schlick, Rolf, to BASF Aktiengesellschaft. Preparation of imidazole-4(5)-monocarboxylic acids and their salts or betaines. 4,672,128, 6-9-87, Cl. 548-343.000.

Kempel, Francis D.: *See—*

Schmitt, Ray F.; Trent, Chadwick L.; Gavin, Joseph A.; and Kempel, Francis D., 4,647,371, Cl. 210-96.100.

Schmitt, Ray F.; Gavin, Joseph A.; Kempel, Francis D.; and Waltrick, Charles N., deceased, 4,649,281, Cl. 250-574.000.

Kempen, Hermanus J. M.: *See—*

Maaskant, Nico; Bantjes, Adriaan; and Kempen, Hermanus J. M., 4,647,280, Cl. 604-5.000.

Kemper, Christian T.; Lowenfeld, Simon; and Fox, Mark S., to Westinghouse Electric Corp. Rule based diagnostic system with dynamic alteration capability. 4,642,782, 2-10-87, Cl. 364-550.000.

Kemper, Christian T.; Bellows, James C.; and Kleinosky, Pamela J., to Westinghouse Electric Corp. Diagnostic apparatus. 4,644,479, 2-17-87, Cl. 364-550.000.

Kemper, Dale A.: *See—*

Blanc, James J.; Hansen, Bryan P.; and Kemper, Dale A., 4,654,565, Cl. 315-411.000.

Kemper, Dennis C.; and Schelhaas, Douglas D., to Gates Rubber Company, The. Coupled hose assembly. 4,660,867, 4-28-87, Cl. 285-256.000.

Kemper, Dennis C.: *See—*

Newberry, Mark A., and Kemper, Dennis C., 4,679,599, Cl. 138-104.000.

Kemper, Johannes A.: *See—*

Ponsioen, Ysbrand P. J. M., and Kemper, Johannes A., 4,644,442, Cl. 361-341.000.

Kemper, Kyran B., and Vetter, Robert W., Jr., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Mechanized loop testing using a local metallic access port. 4,641,299, 2-3-87, Cl. 370-15.000.

Kemper, Yves J., to Tractiontec Corporation. Radially oriented nutational traction drive transmission with large range of speed ratios. 4,694,701, 9-22-87, Cl. 74-191.000.

Kempf, Gerhard: *See—*

Imhof, Christian; and Kempf, Gerhard, 4,693,069, Cl. 57-59.000.

Kempf, Richard J., to Du Pont de Nemours, E. I., and Company. Solvent developable photoresist composition and process of use. 4,716,093, 12-29-87, Cl. 430-277.000.

Kempken, Rainer; Steinberger, Josef; and Ritschel, Johann, to Paul Forkardt GmbH & Co. KG. Apparatus for changing the top jaws of a chuck. 4,648,170, 3-10-87, Cl. 29-568.000.

Kempken, Rainer; and Stolzenberg, Hans, to Paul Forkardt GmbH & Co. Power-operated chuck. 4,700,957, 10-20-87, Cl. 279-117.000.

Kemppi, Matti: *See—*

Bergius, Rainno; Rautjarvi, Risto; Kemppi, Matti; and Toivola, Alpo, 4,669,566, Cl. 180-139.000.

Kempsmith Machine Company: *See—*

Gohr, Robert A., 4,684,433, Cl. 156-517.000.

Kempster, Roger B., to Allen Coding Machines Limited. Infinitely variable ratio drive mechanism. 4,702,428, 10-27-87, Cl. 242-67.200.

Kempter, Fritz E.; Petersen, Harro; Schupp, Eberhard; Sabelus, Gunther; and Schmidt, Horst, to BASF Aktiengesellschaft. Heat-curable coating agent and its use. 4,647,604, 3-3-87, Cl. 523-402.000.

Kempter, Fritz E.; and Nieberle, Juergen, to BASF Aktiengesellschaft. Preparation of phenol resol ethers bonded via o,o'-methylene ether groups. 4,675,375, 6-23-87, Cl. 528-140.000.

Ken Hayashibara: *See—*

Masaki, Kazumi, 4,701,675, Cl. 315-310.000.

Ken, Victor: *See—*

Schapira, Joseph; Ken, Victor; Hoessler, Christian; Cot, Louis; Durand, Jean-Henri; and Pelletier, Patrice, 4,668,307, Cl. 148-6.15Z.

Schapira, Joseph; Ken, Victor; Duboys, Francois-Joseph; and Regnard, Patrick, 4,670,066, Cl. 148-6.15Z.

Schapira, Joseph; Ken, Victor; Thery, Denis; and Jelodin, Stephane, 4,678,519, Cl. 148-6.15Z.

Kenco Engineering Company: *See—*

Mills, Stephen K., 4,693,117, Cl. 73-326.000.

Kenco Optics, Inc.: *See—*

Loiacono, Joseph, 4,690,523, Cl. 351-129.000.

Kendale Industries, Inc.: *See—*

Setele, William O., 4,688,952, Cl. 384-537.000.

Kendall, Burton, to Measurex Corporation. Real-time distributed database management system. 4,635,189, 1-6-87, Cl. 364-200.000.

Kendall, Burton; and King, Thomas, to Measurex Corporation. System for processing information. 4,675,803, 6-23-87, Cl. 364-131.000.

Kendall Company, The: *See—*

Annis, Larry D., 4,659,329, Cl. 604-180.000.

Bates, David, 4,693,712, Cl. 604-323.000.

Bates, David A., 4,702,740, Cl. 604-323.000.

Chekan, William J., 4,701,167, Cl. 604-310.000.

Cianci, James P.; and Gross, James R., 4,692,150, Cl. 604-111.000.

DeCoste, Leonard D., Jr.; and Mamish, Abboud L., 4,705,715, Cl. 428-246.000.

Drach, George W., 4,643,716, Cl. 604-8.000.

Drach, George W., 4,652,258, Cl. 604-53.000.

Dunn, William J., 4,650,478, Cl. 604-322.000.

Dunn, William J.; and Silver, Brian H., 4,691,557, Cl. 73-32.00A.

Dye, John F., 4,693,707, Cl. 604-111.000.

Gerry, Elisabeth H.; and Sergeant, Timothy L., 4,654,254, Cl. 428-252.000.

Gilman, Thomas, 4,635,624, Cl. 128-156.000.

Gross, James R., 4,700,922, Cl. 248-558.000.

Huddleston, Elwyn; and Lacana, Richard J., 4,687,794, Cl. 523-351.000.

Huddleston, Elwyn G., 4,692,352, Cl. 427-208.400.

Ingle, Frank W.; and Selfridge, Alan R., 4,664,124, Cl. 128-660.000.

Lau, Wing Y. T., 4,675,220, Cl. 428-36.000.

Lengyel, Stephen P.; and Greenway, John M., 4,671,266, Cl. 128-156.000.

Lewis, Terry D., 4,640,128, Cl. 73-866.500.

Li, Felipe S., 4,713,136, Cl. 156-229.000.

Lukasiewicz, Mark, 4,709,704, Cl. 128-644.000.

Patel, Bhupendra C., 4,705,502, Cl. 604-49.000.

Rosenberg, Helmut W. G., 4,645,490, Cl. 604-103.000.
Rosenberg, Helmut W. G.; and Drach, George W., 4,692,149, Cl. 604-99.000.
Rosenberg, Helmut W. G., 4,693,703, Cl. 604-49.000.
Rosenberg, Helmut W. G., 4,705,510, Cl. 604-280.000.
Rosenberg, Helmut W. G., 4,710,171, Cl. 604-117.000.
Rosenberg, Philip, 4,701,162, Cl. 604-103.000.
Rupinskas, Vytautas, 4,704,109, Cl. 604-362.000.
Rupinskas, Vytautas R., 4,645,499, Cl. 604-362.000.
Schoots, Peter J., 4,704,113, Cl. 604-379.000.
Shah, Kishore R., 4,693,887, Cl. 424-19.000.
Tascher, Edward R., 4,653,542, Cl. 138-109.000.
Villari, Frank K.; and Steigerwald, Carl J., 4,699,155, Cl. 128-762.000.
Wiencek, Virginia, 4,674,494, Cl. 128-203.160.

Kendall, Giles A., to Menasco Inc. Extendable shock strut. 4,634,082, 1-6-87, Cl. 244-100.00R.

Kendall, Giles A.: *See—*
Troup, Edward M., deceased; Kendall, Giles A.; Han, Joseph U.; Moralez, Christopher M.; and Gongwer, Calvin A., 4,681,259, Cl. 239-206.000.

Kendall, Jack B.: *See—*
Hermens, Richard A.; Kendall, Jack B.; and Partridge, Jerry A., 4,668,482, Cl. 423-15.000.

Kendall, James M., Jr.; Wang, Taylor G.; and Elleman, Daniel D., to California Institute of Technology. Shell forming system. 4,643,854, 2-17-87, Cl. 264-12.000.

Kendall, James M., Jr.: *See—*
Wang, Taylor G.; Elleman, Daniel D.; Lee, Mark C.; and Kendall, James M., Jr., 4,701,436, Cl. 502-339.000.

Kendall, James W., to Huck Manufacturing Co. System for producing two separate sets of blind fasteners. 4,635,310, 1-13-87, Cl. 10-27.00R.

Kendall, James W., to Huck Manufacturing Company. Fastening system including an improved interference fit blind fastener and method of manufacture. 4,702,655, 10-27-87, Cl. 411-43.000.

Kendall, Kevin: *See—*
Alford, Neil M.; Birchall, James D.; Howard, Anthony J.; Kendall, Kevin; and Raistrick, James H., 4,677,082, Cl. 501-88.000.
Lord, Leslie W.; Kendall, Kevin; Williams, David T.; and Bateson, John H., 4,707,351, Cl. 423-648.00R.

Kendall McGaw Laboratories, Inc.: *See—*
McPhee, Charles J., 4,675,020, Cl. 604-411.000.
Richmond, Douglass S., 4,642,091, Cl. 604-29.000.

Kendall, Robert M., to Gas Research Institute. Advanced heater. 4,658,762, 4-21-87, Cl. 122-250.00R.

Kendall, Robert M.; Schreiber, Richard J.; Minden, Andrew C.; and Wong, Thomas, to Gas Research Institute. Heater with zone-controlled radiant burners. 4,664,620, 5-12-87, Cl. 431-328.000.

Kendall, Shirley N., and Rengarajan, Ramesh, to A. Schulman, Inc. Flame-retardant polyolefin compositions containing exudation inhibitor and process for producing same. 4,699,734, 10-13-87, Cl. 252-609.000.

Kende, Andrew S.; Curran, Dennis P.; King, Margaret L.; and Feidstein, Neil A., to University of Rochester, The. Intermediates for the production of picropodophyllin and related compounds and processes for the preparation and use thereof. 4,667,043, 5-19-87, Cl. 547-445.000.

Kendiroglu, Migirdic: *See—*
Barankin, Froim; Kendiroglu, Migirdic; and Micheletti, Beyrouth B., 4,700,167, Cl. 336-192.000.

Kendrick, Billy J. Traveling support rod for outboard engine. 4,651,964, 3-24-87, Cl. 248-351.000.

Kendrick, Billy J. Lid support rod. 4,657,155, 4-14-87, Cl. 217-60.00B.

Kendrick, Billy J. Quick release jack. 4,702,458, 10-27-87, Cl. 254-97.000.

Kendrick, David A.: *See—*
Kolb, Michael; and Kendrick, David A., 4,707,498, Cl. 514-671.000.

Kendrick, James D. Two-piece winding key for collapsible tubes. 4,653,670, 3-31-87, Cl. 222-99.000.

Kendrick, Richard L. Collapsible femur traction device. 4,708,131, 11-24-87, Cl. 128-85.000.

Kenergy Corporation: *See—*
Weisner, Kent A., and Walls, Lester L., Jr., 4,649,680, Cl. 52-200.000.

Keneticon Limited: *See—*
Young, David N., 4,695,707, Cl. 219-392.000.

Kenfield, John A. C., to Canada, Her Majesty the Queen in right of the Province of Alberta, as represented by the Minister of Energy and Natural Resources. Wind turbine with damper. 4,674,954, 6-23-87, Cl. 416-14.000.

Kenichi, Inatomi: *See—*
Satoru, Isoda; and Kenichi, Inatomi, 4,686,372, Cl. 250-461.200.

Kenig, Krystyna: *See—*
Dabrowski, Roman; Dziaduszek, Jerzy; Szulc, Jaroslaw; Witkiewicz, Zygfryd; Stolarz, Zofia; Kenig, Krystyna; and Adamska, Gabriela, 4,676,924, Cl. 252-299.610.

Kenison, David F., and Lynn, David G., to United Technologies Corporation. Transient gas turbine engine bleed control. 4,655,034, 4-7-87, Cl. 60-39.290.

Kenison, David F.: *See—*
McLaughlin, Peter W.; Spock, Wayne R.; and Kenison, David F., 4,651,518, Cl. 60-39.020.

Kenji, Yabusaki; Hitoshi, Tozawa; Akira, Noda; and Takashi, Ito, to Tokyo Kogaku Kikai Kabushiki Kaisha. Photometer. 4,708,477, 11-24-87, Cl. 356-222.000.

Kenjo, Hideki: *See—*
Ohkado, Shinzo; and Kenjo, Hideki, 4,699,934, Cl. 523-106.000.

Kenjyo, Hideyuki, to Olympus Optical Co., Ltd. Optical recording and/or reproducing apparatus with synchronous fine and coarse adjusting mechanisms. 4,677,603, 6-30-87, Cl. 369-32.000.

Kenjyo, Hideyuki: *See—*
Takeuchi, Toyoaki; Ohshima, Ken; Kenjyo, Hideyuki; Ikeda, Yoshiaki; and Sakamoto, Masaharu, 4,683,560, Cl. 369-45.000.

Kenkyusho, Rikagaku: *See—*
Itoh, Tsutomu; Tateno, Haruo; Nagasaka, Hideo; Yamamoto, Masahiro; Mitsuyoshi, Yusuke; Matsuno, Susumu; Saitoh, Hiroshi; and Kitoh, Masayuki, 4,670,290, Cl. 427-34.000.

Kenley, Rodney S.: *See—*
Fentress, Philip W.; Kenley, Rodney S.; and Schnell, William J., 4,707,335, Cl. 422-44.000.

Kenmei, Junichi: *See—*
Saito, Yasuhisa; Takagishi, Hisao; Watanabe, Katsuya; Okuno, Kohichi; Kenmei, Junichi; and Kamio, Kunimasa, 4,705,833, Cl. 525-504.000.

Kenmochi, Kazuei; Sakairi, Tadashi; and Miyazaki, Masamitsu, to Matsushita Electric Industrial Co., Ltd. Method and press molding apparatus for forming information carrier discs of granular thermoplastic material. 4,657,714, 4-14-87, Cl. 264-1.300.

Kenmochi, Kazuei, to Matsushita Electric Industrial Co., Ltd. Aluminum electrolytic capacitor and a manufacturing method therefor. 4,663,824, 5-12-87, Cl. 29-570.000.

Kenna, Robert V.; Hungerford, David S.; and Krackow, Kenneth A., to Howmedica, Inc. Prosthetic knee implantation. 4,646,729, 3-3-87, Cl. 128-92.0VW.

Kenna, Robert V.; Hungerford, David S.; and Krackow, Kenneth A., to Howmedica, Inc. Prosthetic knee implantation. 4,653,488, 3-31-87, Cl. 128-92.0VW.

Kenna, Robert V., to Pfizer Hospital Products Group, Inc. Acetabular cup assembly prosthesis. 4,666,450, 5-19-87, Cl. 623-22.000.

Kenna, Robert V., to Pfizer Hospital Products Group, Inc. Spinal implant. 4,714,469, 12-22-87, Cl. 623-17.000.

Kennametal, Inc.: *See—*
McKenna, Alex G., and Hutzell, Clyde G., 4,674,802, Cl. 299-79.000.

Kennametal Inc.: *See—*
Beach, Wayne H., 4,666,214, Cl. 299-92.000.
Crist, Owen K., 4,688,652, Cl. 175-410.000.
Erickson, Robert A., 4,663,818, Cl. 29-426.300.
Erickson, Robert A., 4,708,040, Cl. 82-36.00B.
Evans, Donald R., 4,660,268, Cl. 29-523.000.
Evans, Donald R., 4,698,884, Cl. 29-132.000.
Friedline, Ernest J., 4,659,264, Cl. 408-204.000.
Hallissy, Robert P.; Isakov, Edmund; Stephenson, Earle W.; and Rowlett, Don C., 4,715,450, Cl. 172-701.300.
McCreery, James F., and Tilstone, Arthur D., 4,685,844, Cl. 407-114.000.
Newman, Harold C., and Stoll, William M., 4,666,797, Cl. 428-681.000.
Sulosky, William P., and Evans, Raymond D., Jr., 4,693,518, Cl. 299-93.000.
Yeckley, Russel L., and North, Bernard, 4,711,644, Cl. 51-307.000.

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Kenneally, Patrick: *See—*
Murphy, John; McMullin, Francis; Egan, Michael; Byrne, John V.; and Kenneally, Patrick, 4,682,093, Cl. 318-701.000.

Kennecke, Mario: *See—*
Weber, Alfred; Wilke, Detlef; Kurzidim, Johannes; and Kennecke, Mario, 4,644,067, Cl. 548-497.000.

Kennecott Corporation: *See—*
Boecker, Wolfgang D. G., and Korzekwa, Tadeusz M., 4,693,988, Cl. 501-89.000.
Bower, Terry F.; Randlett, M. Ronald; and Stamopulos, George, 4,683,938, Cl. 164-413.000.
Bowling, Joseph E.; Carpenter, James H.; and Rowe, Russell L., 4,637,559, Cl. 241-94.000.
Cerdan-Diaz, Juan M.; Sanders, Michael J.; and Willar, Mark E., 4,640,848, Cl. 427-426.000.
Ebert, Klaus-Peter, 4,651,894, Cl. 220-469.000.
Kim, Jonathan J.; and Katz, Joel D., 4,649,002, Cl. 264-38.000.
Kim, Jonathan J.; and Venkateswaran, Viswanathan, 4,666,775, Cl. 428-398.000.
Kim, Jonathan J.; Venkateswaran, Viswanathan; and Phoenix, Richard C., 4,676,940, Cl. 264-65.000.
Kim, Jonathan J.; and Katz, Joel D., 4,698,481, Cl. 219-121.0PY.
Kim, Jonathan J.; and Venkateswaran, Viswanathan, 4,707,585, Cl. 219-121.00P.
King, Glenn G., and Molloy, Francis X., 4,645,476, Cl. 474-133.000.
Miller, John R., 4,683,516, Cl. 361-328.000.
Nunlist, Erwin J., 4,711,296, Cl. 165-47.000.
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Templeton, Frederick E., 4,655,346, Cl. 363-160.000.

Thomas, Dwight J.; and Ashelin, Charles J., 4,678,577, Cl. 210-441.000.

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  Hancock, Jack A.; Johnson, Walter D.; and Kennedy, Alan D., 4,639,347, Cl. 264-291.000.
  Hancock, Jack A.; Johnson, Walter D.; and Kennedy, Alan D., 4,704,329, Cl. 428-369.000.

Kennedy, Albert B. Slide-out bumper and tire carrier. 4,676,415, 6-30-87, Cl. 224-42.060.

Kennedy, Andrew. Button orientating apparatus. 4,651,657, 3-24-87, Cl. 112-113.000.

Kennedy, Bruce L.; Beller, Joseph K.; and Modjeski, Roger A., to Carter-Duncan Corporation. Variable power amplifier for audio frequency signals and method. 4,644,289, 2-17-87, Cl. 330-145.000.

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Kennedy, Clinton R.: *See*—
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Kennedy Company: *See*—
  Spiegelstein, Wolfgang, 4,673,995, Cl. 360-93.000.

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Kennedy, Fred R. Can crushing machine. 4,667,593, 5-26-87, Cl. 100-215.000.

Kennedy, Gary D.; and Maher, Joseph G., to Kentec, Inc. Picture frame fastener. 4,709,494, 12-1-87, Cl. 40-152.000.

Kennedy, Gregory C., to Harbor Branch Oceanographic Institution Inc. Electric motor reversing control devices. 4,680,513, 7-14-87, Cl. 318-285.000.

Kennedy, Harold, Jr. Assembly means for standardized mechanical joint for pipeline appurtenances. 4,637,641, 1-20-87, Cl. 285-337.000.

Kennedy, James D. Drilling assembly for percussion drilling of deep wells. 4,694,911, 9-22-87, Cl. 173-62.000.

Kennedy, James V.: *See*—
  Occelli, Mario L.; and Kennedy, James V., 4,650,564, Cl. 208-113.000.

Kennedy, Jerry L.: *See*—
  Salkeld, Melvin R.; Langeland, Wayne E.; and Kennedy, Jerry L., 4,634,526, Cl. 210-194.000.

Kennedy, Jesse R.; and Kennedy, Marcus R. Apparatus for imaging infrared emitting surfaces. 4,695,881, 9-22-87, Cl. 358-100.000.

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Kennedy, John F.; and Fournier, Alain, to Societe de Construction des Avions Hurel-Dubois. Door thrust reverser for a jet engine. 4,671,460, 6-9-87, Cl. 239-265.190.

Kennedy, John F.: *See*—
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Kennedy, John M.; and Kennedy, William R. Jack for installing a mine stopping. 4,695,035, 9-27-87, Cl. 254-93.00R.

Kennedy, John M.: *See*—
  Suh, Kyung W.; and Kennedy, John M., 4,636,527, Cl. 521-79.000.

Kennedy, Joseph E. Automatic gun with improved firing mechanism. 4,664,015, 5-12-87, Cl. 89-138.000.

Kennedy, Kenneth R., to Sunbeam Plastics Corporation. Vented closure. 4,648,519, 3-10-87, Cl. 215-261.000.

Kennedy, Leo J., to Owens-Illinois, Inc. Container systems. 4,643,330, 2-17-87, Cl. 220-288.000.

Kennedy, Lyn R., to Precision Measurement, Inc. Method and apparatus for measuring the relative density of gases. 4,677,841, 7-7-87, Cl. 73-30.000.

Kennedy, Marcus R.: *See*—
  Kennedy, Jesse R.; and Kennedy, Marcus R., 4,695,881, Cl. 358-100.000.

Kennedy, Melvin R.; Nagel, Dietmar; and Arad, Avi. Toy vehicle launcher and sound generator. 4,642,066, 2-10-87, Cl. 446-420.000.

Kennedy, Melvin R.; Nagel, Dietmar; and Arad, Abraham A., to Buddy L Corporation. Toy work vehicle having power take-off. 4,643,695, 2-17-87, Cl. 446-427.000.

Kennedy, Melvin R.; Nagel, Dietmar; and Arad, Abraham A. Toy vehicle having simulated engine noise. 4,680,020, 7-14-87, Cl. 446-414.000.

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Kennedy, Michael, to Brother Albert Welsh Foundation. Ventilator including a double pass countercurrent heat exchanger. 4,691,763, 9-8-87, Cl. 165-54.000.

Kennedy, Paul E., to McGill Incorporated. Absorption-adsorption-absorption vapor recovery process. 4,670,028, 6-2-87, Cl. 55-48.000.

Kennedy, Paul E., to McGill Incorporated. Vapor recovery system. 4,715,868, 12-29-87, Cl. 55-48.000.

Kennedy, Paul E.: *See*—
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Kennedy, Paul G., to ITT Corporation. Eccentric plug valve. 4,697,786, 10-6-87, Cl. 251-309.000.

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Kennedy, Peter; and Ware, John O., to United Kingdom Atomic Energy Authority. Reacting-bonded silicon carbide spheroids and process of making. 4,707,459, 11-17-87, Cl. 501-90.000.

Kennedy, Richard A.; and Aldridge, Fredrick A., to General Motors Corporation. Noise blanking signal generator for AM radio. 4,637,066, 1-13-87, Cl. 455-223.000.

Kennedy, Richard B. Rotary mixing of two component resins in disposable plastic bag. 4,711,582, 12-8-87, Cl. 366-279.000.

Kennedy, Richard T.: *See*—
  Wasserstrom, Henry; and Kennedy, Richard T., 4,684,039, Cl. 222-129.100.

Kennedy, Steven: *See*—
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Kennedy, Weldon C., Jr., to Dowell Schlumberger Incorporated. Corrosion inhibitors for cleaning solutions. 4,637,899, 1-20-87, Cl. 252-542.000.

Kennedy, William L.: *See*—
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Kennedy, William R.: *See*—
  Kennedy, John M.; and Kennedy, William R., 4,695,035, Cl. 254-93.00R.

Kennedy, William S.; and Blumenkranz, Stephen J., to Petrophysical Services, Inc. Method and apparatus for generating seismic waves. 4,671,379, 6-9-87, Cl. 181-106.000.

Kennedy, William S.: *See*—
  Yasuda, Arthur K.; Kennedy, William S.; and Aronstam, Peter S., 4,715,469, Cl. 181-102.000.

Kennel, Yves: *See*—
  Jarry, Alain; Gozard, Jean-Pierre; Kennel, Yves; and Luccioni, Alain, 4,667,026, Cl. 536-114.000.

Kennematel, Inc.: *See*—
  Mitchell, Robert N.; and Hunt, James L., 4,648,761, Cl. 29-558.000.

Kenner, Erich: *See*—
  Langen, Herbert; and Kenner, Erich, 4,650,415, Cl. 431-115.000.
  Langen, Herbert; and Kenner, Erich, 4,669,973, Cl. 431-115.000.

Kenner, Mary B. Shower wall and bathtub mounted back washer. 4,696,068, 9-29-87, Cl. 4-606.000.

Kenner Parker Toys Inc.: *See*—
  Baerenwald, Philip M.; and Reed, Phillip G., 4,680,019, Cl. 446-378.000.
  Bohl, Walter L., Jr.; and Belfor, Michael E., 4,705,488, Cl. 446-393.000.
  Friedman, Walter; and Stricker, David J., 4,690,656, Cl. 446-95.000.
  Ventura, Frank D., 4,678,451, Cl. 446-471.000.

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  Kantor, Sidney; and Kennett, Robert L., Jr., 4,649,147, Cl. 514-279.000.
  Kantor, Sidney; and Kennett, Robert L., Jr., 4,650,802, Cl. 514-279.000.

Kennett, Roger H.; and Jonak, Zdenka L., to University of Pennsylvania. Continuous lymphocyte cell lines, their production and use. 4,652,522, 3-24-87, Cl. 435-68.000.

Kennett, Scott W., to E-Systems, Inc. RF pulse transmitter having incidental phase modulation (IPM) correction. 4,639,938, 1-27-87, Cl. 375-60.000.

Kennett, Scott W., to E-Systems, Inc. RF pulse modulated amplifier having conduction angle control. 4,644,293, 2-17-87, Cl. 330-296.000.

Kennette, John W.: *See*—
  Bayofsky, Conrad C.; and Kennette, John W., 4,693,922, Cl. 428-134.000.
  Dyer, John; Kennette, John W.; Bassett, Alton H.; and Hall, Stanley D., 4,639,253, Cl. 604-362.000.
  Dyer, John; and Kennette, John W., 4,695,500, Cl. 428-134.000.

Kennewell, Peter D.: *See*—
  Jones, Stuart D.; Tully, Wilfred R.; and Kennewell, Peter D., 4,654,338, Cl. 514-222.000.

Kenney, Alan: *See*—
  South, Alan; and Kenney, Alan, 4,704,761, Cl. 15-250.190.

Kenney, Dean. Coin getting apparatus. 4,653,790, 3-31-87, Cl. 294-50.000.

Kenney, Donald M.; and Mandelman, Jack A., to International Business Machines Corporation. Single transistor driver circuit. 4,642,491, 2-10-87, Cl. 307-571.000.

Kenney, Donald M., to International Business Machines Corporation. Sequential shared access lines memory cells. 4,648,073, 3-3-87, Cl. 365-149.000.

Kenney, Edward S.: *See*—
  Baratta, Anthony J.; Jester, William A.; Kenney, Edward S.; McMaster, Ira B.; and Schultz, Mortimer A., 4,639,349, Cl. 376-254.000.

Kenney, George B., to Metallurgical Instruments, Inc. Method for in-process multi-element analysis of molten metal and other liquid materials. 4,636,339, 1-13-87, Cl. 264-12.000.

Kenney, James F.: *See*—
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Kenney, James W., to Drummond Scientific Company. Disposable capillary tube device. 4,662,545, 5-5-87, Cl. 222-386.000.

Kenney, Kirby: *See*—
  Kenney, Stephen J.; and Kenney, Kirby, 4,653,769, Cl. 280-414.100.

Kenney Manufacturing Company: *See*—
  Percivalle, Glenn S.; and Blanchette, Ronald L., 4,712,457, Cl. 82-47.000.

Kenney, Michael T.; and Rhoades, Jeffrey S. Colored floor finish. 4,680,237, 7-14-87, Cl. 428-520.000.

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Kenney, William H.: *See—*
  Moss, Ted C.; Kenney, William H.; Boing, Earl V., Jr.; and Cross, H. Edwin, Sr., 4,656,686, Cl. 15-147.00A.

Kenning, Jack C., to Lakeway Manufacturing, Inc. Apparatus and process for tapping molten metal furnaces using a rotary percussion mill. 4,669,707, 6-2-87, Cl. 266-45.000.

Kennis, Ludo E. J.: *See—*
  Janssens, Frans E.; Kennis, Ludo E. J.; Hens, Jozef F.; Torremans, Joseph L. G.; and Diels, Gaston S. M., 4,695,575, Cl. 514-322.000.
  Vandenberk, Jan; Kennis, Ludo E. J.; and Mertens, Josephus C., 4,665,075, Cl. 514-259.000.

Kennon, James L.: *See—*
  Conrad, Douglas J.; Kennon, James L.; Macartney, Lawrence J.; and Scharf, Donald R., 4,635,585, Cl. 118-316.000.

Kennon, Jerry M., to Westinghouse Electric Corp. Wireless power line communication apparatus. 4,644,321, 2-17-87, Cl. 340-310.00A.

Kennon, Jerry M.; Faulkner, James V., Jr.; and York, Theodore H., to Westinghouse Electric Corp. Transceiver with auto frequency sense. 4,649,569, 3-10-87, Cl. 455-67.000.

Kennon, Jerry M.; and Hayden, Leland E., to Westinghouse Electric Corp. Magnetic tamper detector. 4,707,679, 11-17-87, Cl. 340-310.00A.

Kennon, Ronnie. Home entertainment accessory organizer. 4,708,408, 11-24-87, Cl. 312-9.000.

Kenny, John: *See—*
  Kohlmetz, Charles W.; Urban, James J.; and Kenny, John, 4,696,283, Cl. 126-247.000.

Kenny, Michael: *See—*
  Nimmo, Neil D.; Kenny, Michael; and Willis, David, 4,637,178, Cl. 52-36.000.

Kenny Sr., Patrick M., to Ben-Jac, Inc. Embedment anchor. 4,697,958, 10-6-87, Cl. 405-228.000.

Kenny, Thomas J.; and Sutherland, James F., to Westinghouse Electric Corp. Redundant power supply arrangement with surge protection. 4,644,440, 2-17-87, Cl. 361-111.000.

Kenny, Thomas J.; and Vitalbo, Carl A., to Westinghouse Electric Corp. Redundant power supply system. 4,651,020, 3-17-87, Cl. 307-43.000.

Kenny, Thomas J.; and Sutherland, James F., to Westinghouse Electric Corp. Low leakage, solid state a-c power contact. 4,691,263, 9-1-87, Cl. 361-58.000.

Kenny, Thomas J.: *See—*
  Smith, John R.; Kenny, Thomas J.; Graham, Kingsley F.; Neuner, James A.; Bauman, Douglas A.; Thompson, Timothy F.; Wassel, William W.; Rao, Dhulipala M.; and Theriault, David G., 4,642,636, Cl. 340-870.040.
  Sutherland, James F.; Crew, Albert W.; and Kenny, Thomas J., 4,700,174, Cl. 340-347.0CC.

Kenova AB: *See—*
  Nilson, Nils B., 4,664,257, Cl. 206-219.000.

Kenrich Petrochemicals, Inc.: *See—*
  Sugerman, Gerald; and Monte, Salvatore J., 4,634,785, Cl. 556-17.000.
  Sugerman, Gerald; and Monte, Salvatore J., 4,657,988, Cl. 525-437.000.
  Sugerman, Gerald; and Monte, Salvatore J., 4,715,968, Cl. 252-8.600.

Kensa Giken Co., Ltd.: *See—*
  Urata, Toshimitsu, 4,690,006, Cl. 73-866.500.

Kensa, Jaromir: *See—*
  Sorm, Miloslav; Vacha, Jiri; Ulbert, Karel; Jagos, Frantisek; Nespurek, Stanislav; Langpaul, Josef; Skalicky, Stanislav; Kensa, Jaromir; Zvonicek, Miroslav; and Drabek, Oldrich, 4,646,969, Cl. 239-106.000.

Kensetsu Fastener Kabushiki Kaisha: *See—*
  Yamada, Takao, 4,653,132, Cl. 10-27.0PH.

Kensey, Kenneth; and Nash, John, to Intravascular Surgical Instruments, Inc. Catheter based surgical methods and apparatus therefor. 4,664,112, 5-12-87, Cl. 128-341.000.

Kensey, Kenneth; and Nash, John, to Intravascular Surgical Instruments, Inc. Catheter based surgical methods and apparatus therefor. 4,679,558, 7-14-87, Cl. 128-328.000.

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Kensey, Kenneth; and Nash, John, to Intravascular Surgical Instruments, Inc. Catheter based surgical methods and apparatus therefor. 4,700,705, 10-20-87, Cl. 128-341.000.

Kensinger, Roger C. Convertible bedding assembly and mattress. 4,639,952, 2-3-87, Cl. 5-13.000.

Kensuke, Asada: *See—*
  Yasushi, Mikura; Kensuke, Asada; and Hajime, Toguchi, 4,645,830, Cl. 530-351.000.

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  Nakano, Takao; and Kensuke, Inou, 4,699,262, Cl. 198-411.000.

Kent, Charles: *See—*
  Gerritsen, Rudolf; and Kent, Charles, 4,656,343, Cl. 235-454.000.

Kent, Dallas L., to Zenith Electronics Corporation. System for resetting the operation of a signal processing device upon the failure of accessing a predetermined memory location within a predetermined time interval. 4,689,766, 8-25-87, Cl. 364-900.000.

Kent, David E.: *See—*
  Barrett, John P.; Schulz, Daniel R.; Kent, David E.; deFasselle, Robert J.; and Zega, Henry E., 4,700,884, Cl. 236-12.120.

Kent, Eric G., to Polysar Limited. Methods of adhering a self-fusing tape to a substrate. 4,713,133, 12-15-87, Cl. 156-162.000.

Kent, Erma W. Safety device. 4,688,656, 8-25-87, Cl. 180-279.000.

Kent Heating Limited: *See—*
  Farrell, John C., 4,653,467, Cl. 126-126.000.
  Fleming, John S., 4,667,607, Cl. 110-172.000.

Kent, James V.: *See—*
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Kent, John: *See—*
  Wheeldon, Peter G.; and Kent, John, 4,670,007, Cl. 604-65.000.

Kent, John S.; Lewis, Danny H.; Sanders, Lynda M.; and Tice, Thomas R., to Syntex (U.S.A.) Inc. Microencapsulation of water soluble active polypeptides. 4,675,189, 6-23-87, Cl. 424-490.000.

Kent-Moore Corporation: *See—*
  Lindquist, Craig B.; and Bihn, Robert F., 4,708,667, Cl. 439-788.000.
  Lower, Ralph C.; Manz, Kenneth W.; and Murray, Gary P., 4,688,388, Cl. 62-125.000.
  Mandeville, David C.; and Lazar, David W., 4,643,336, Cl. 222-145.000.
  Provost, Lawrence A.; and Boyer, Robert D., 4,642,900, Cl. 33-169.00B.

Kent, Randy K., to Roraac Industries Inc. Corrosion resistant nickel alloyed ductile cast iron of ferrite structure. 4,702,886, 10-27-87, Cl. 420-18.000.

Kent, Richard W., Jr.: *See—*
  Faber, Jerry L.; and Kent, Richard W., Jr., 4,634,592, Cl. 426-1.000.

Kent, Roger S., to E.R.G. Management Services Pty., Ltd. Display member. 4,694,289, 9-15-87, Cl. 340-815.050.

Kent Scientific and Industrial Projects Limited: *See—*
  Jackson, David A.; Corke, Michael; and Kersey, Alan D., 4,642,458, Cl. 250-225.000.
  Jackson, David A.; Corke, Michael; Kersey, Alan D.; and Jones, Julian D. C., 4,678,909, Cl. 250-231.00P.
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  Jones, Julian D. C.; Jackson, David A.; and Leilabady, Pedram A., 4,706,502, Cl. 73-861.240.

Kent State University: *See—*
  Doane, Joseph W.; Chidichimo, Giuseppe; and Vaz, Nuno A. P., 4,688,900, Cl. 350-347.00V.

Kent, Stephen B. H.: *See—*
  Bridgham, John; Geiser, Timothy G.; Hunkapiller, Michael W.; Kent, Stephen B. H.; Marriott, Mark P.; Ramstad, Paul O.; and Nordman, Eric S., 4,668,476, Cl. 422-62.000.

Kent, William H.; and Steel, Robert C., to Gas Research Institute. Rotation sensor. 4,672,753, 6-16-87, Cl. 33-366.000.

Kentec, Inc.: *See—*
  Kennedy, Gary D.; and Maher, Joseph G., [illegible], Cl. 40-152.000.

Kentek Information Systems, Inc.: *See—*
  Fukae, Kensuke; and Yamashita, Keitaro, 4,670,116, Cl. 355-3.0DD.
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  Takeuchi, Shoji, 4,657,369, Cl. 355-3.0BE.

Kentfield, John A. C.; and MacGregor, Ian, to Canada, Her Majesty the Queen in right of, as represented by the Minister of Energy and Natural Resources. Reinforced delta-wing blade for wind turbine. 4,697,988, 10-6-87, Cl. 416-237.000.

Kentinental Engineering Limited: *See—*
  Betts, David R.; and Edmonds, Michael G., 4,690,417, Cl. 280-42.000.

Kentosh, James M., to Amtel, Inc. Quick disconnect storage production terminal. 4,650,431, 3-17-87, Cl. 441-5.000.

Kentosh, James M., to Amtel, Inc. Mooring installation. 4,654,015, 3-31-87, Cl. 441-5.000.

Kentwell, Dion F.: *See—*
  Copas, Raymond J.; and Kentwell, Dion F., 4,664,953, Cl. 427-355.000.

Kentwell, Glenn W.: *See—*
  Kelly, John C.; and Kentwell, Glenn W., 4,672,615, Cl. 372-2.000.
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Kenway, Sidney, to Eaton Corporation. Sealed rectangular pushbutton switch. 4,673,780, 6-16-87, Cl. 200-302.200.

Kenway, Sidney, to Eaton Corporation. Panel mounted apparatus with front operated clamping means. 4,678,879, 7-7-87, Cl. 200-295.000.

Kenworthy, Gary: *See—*
  Chabries, Douglas M.; Christiansen, Richard W.; Lynn, Douglas; and Kenworthy, Gary, 4,658,426, Cl. 381-94.000.

Kenworthy, Ian C.; Gettins, Robert B.; Logan, Peter W.; Jeambar, Patrick; and Vuillaume, Andre, to Dexter Corporation. The Apparatus for making a patterned non-woven fabric. 4,666,390, 5-19-87, Cl. 425-86.000.

Kenyon, Dennis A.: *See—*
  Geiger, Scott A.; and Kenyon, Dennis A., 4,693,593, Cl. 355-14.0CH.

Kenyon, Eric, to Allware Agencies Limited. Portable fan for winter and summer use. 4,642,441, 2-10-87, Cl. 219-364.000.

- Kenyon, Lawrence A., Jr.: *See*—
  - Hochsprung, Ronald R.; Kenyon, Lawrence A., Jr.; Oppenheimer, Alan B.; and Sidhu, Gursharan S., 4,661,902, Cl. 364-200.000.
  - Sidhu, Gursharan S.; Oppenheimer, Alan B.; Kenyon, Lawrence A., Jr.; and Hochsprung, Ronald R., 4,689,786, Cl. 370-94.000.
- Kenyon, Maynard A., 2nd, to General Foods Corporation. Container and cap assembly. 4,669,630, 6-2-87, Cl. 220-276.000.
- Kenyon, Peter T.: *See*—
  - McCollum, Bill C.; Kenyon, Peter T.; and Andrews, Leonard J., 4,648,094, Cl. 372-41.000.
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Leonard, Robert E., and Lamansky, William H., 4,668,539, Cl. 427-298.000.
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Sleffel, William M., 4,700,568, Cl. 73-195.000.

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Nelson, Stephen R., 4,666,562, Cl. 203-93.000.

Kerr Measurement Systems, Inc.: *See*—
Kerr, Wayne L., 4,709,208, Cl. 324-206.000.

Kerr, Michael L.: *See*—
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  Szuts, Tamas; Szentmiklosi, Peter; Lengyel, Jozsef; Hermecz, Istvan; Vasvari nee Debreczy, Lelle; Horvath, Agnes; Kerszturi, Geza; Kovacs, Gabor; Horvath, Gabor; and Marmarosi nee Kellner, Katalin, 4,670,440, Cl. 514-254.000.

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  Csery, Huba; Czigany, Imre; Horvath, Zoltan; Kertesz, Ivan; Kroo, Norbert; and Schmidt, Gyorgy, 4,644,550, Cl. 372-40.000.

  Fenyo, Marta; Kertesz, Ivan; Rozsa, Karoly; and Szego, Peter, 4,686,986, Cl. 128-396.000.

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Kertzman, Jack, to Perma Pure Products, Inc. Fluid drying tube. 4,705,543, 11-10-87, Cl. 55-158.000.

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Kervagoret, Gilbert, to Bendix France. Hydraulic brake valve capable of operating as conventional master cylinder when brake pressure source fails. 4,706,460, 11-17-87, Cl. 60-565.000.

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Kessler, David: *See—*
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Kessler, Emerich. Dual filtering system for swimming pools. 4,657,673, 4-14-87, Cl. 210-108.000.
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Kessler, Gerald. Drain tube for windows. 4,691,487, 9-8-87, Cl. 52-209.000.
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Kessler, Heinrich, to Siemens Aktiengesellschaft. Integrated semiconductor circuit. 4,686,507, 8-11-87, Cl. 340-347.0AD.
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  Whitaker, Charles D., 4,685,061, Cl. 364-424.000.
Ketelhut, Raymond R.: *See—*
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Ketelhut, Robert W., and Kwiatkowski, Mark A., to General Motors Corporation. Vehicle door handle assembly. 4,653,143, 3-31-87, Cl. 16-124.000.
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Ketharanathan, Vettivetpillai. Biomaterial. 4,681,588, 7-21-87, Cl. 623-11.000.
Ketley, Celia H., to W. R. Grace & Co. Low temperature single step curing polyimide adhesive. 4,714,726, 12-22-87, Cl. 524-11.000.
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  Sumida, Takashi; Sasaki, Sigeo; Ketori, Takao; and Fujita, Kazuhiro, 4,635,879, Cl. 242-198.000.
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  Fujita, Toshio; and Hasegawa, Kouzi, 4,715,007, Cl. 364-563.000.
Kettelkamp, Ronald C., Sr.; and Shaffstall, Maurice. Adjustable guard rail stanchion member. 4,666,131, 5-19-87, Cl. 256-59.000.
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Kettering, Charles W., to Lockheed Corporation. Jump strut landing gear apparatus and system. 4,687,158, 8-18-87, Cl. 244-63.000.
Kettler, Daniel G. A.: *See—*
  d'Agostino, Guy; Dhainaut, Andre; Kettler, Daniel G. A.; and Leclerc, Henry R., 4,681,327, Cl. 277-29.000.
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Kettler, Heinz. Folding chair. 4,674,793, 6-23-87, Cl. 297-28.000.
Kettlestrings, John S. Fabricated spar adapter sailing rig. 4,697,534, 10-6-87, Cl. 114-90.000.
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  Schlueter, Gary R.; Kettlitz, Karsten K.; and Arnone, Louis F., III, 4,672,718, Cl. 24-90.00A.
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Kettschau, Hans-Jurgen, to U.S. Philips Corporation. Clocked direct voltage converter. 4,706,176, 11-10-87, Cl. 363-21.000.
Kettunen, Pentti: *See—*
  Ruuskanen, Pekka; and Kettunen, Pentti, 4,689,558, Cl. 324-209.000.
Ketzler, John H. A., to ETA Systems, Inc. Electronic clock tuning system. 4,714,924, 12-22-87, Cl. 340-825.210.
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Keung, Jay K.: *See—*
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Keuro Maschinenbau Gesellschaft mit beschrankter Haftung & Co. Kommanditgesellschaft: *See—*
  Stolzer, Paul; and Spath, Dieter, 4,708,566, Cl. 414-276.000.
Keusch, Preston; and Essmyer, John L., to Nepera Inc. Adhesive polyethylene oxide hydrogel sheet and its production. 4,684,558, 8-4-87, Cl. 428-40.000.
Keusch, Preston; and Essmyer, John L., to Nepera Inc. Conductive adhesive medical electrode assemblies. 4,706,680, 11-17-87, Cl. 128-640.000.
Keuter, Dale H., and Keuter, Karl A. Animal actuated feeder. 4,694,780, 9-22-87, Cl. 119-53.500.
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  Keuter, Dale H., and Keuter, Karl A., 4,694,780, Cl. 119-53.500.
Keutgen, Franz; Kubon, Achim; Perings, Dieter; Stadler, Peter; Voss-Spilker, Peter; and Apel, Karl-Hermann, to Mannesmann AG. Machine for continuous, multistrand casting in the horizontal. 4,714,105, 12-22-87, Cl. 164-420.000.
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  Burkhardt, Klaus; Gerhards, Klaus; Grefs, Manfred; Keuth, Rainer; and Lenk, Erich, 4,691,947, Cl. 28-255.000.
Keve, Tibor; Zsadon, Bela; Fekete, Gyorgy; Galambos, Janos; Barta nee Bukovecz, Margit; Szporny, Laszlo; Forgacs, Lilla; Kiraly, Arpad; Soos, Gyongyver; Kiss, Bela; and Zajer nee Balazs, Maria, to Richter Gedeon Vegyeszeti Gyar Rt. Apovincaminol derivatives. 4,680,397, 7-14-87, Cl. 546-51.000.
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  Megyeri, Gabor; Keve, Tibor; Stefko, Bela; Bogsch, Erik; Galambos, Janos; Kassainee Zieger, Anna; Trischler, Ferenc; Palosi, Eva; Groo, Dora; Karpati, Egon; Szombathelyi, Zsolt; Szporny, Laszlo; Kiss, Bela; Laszlovszky, Istvan; and Lapis, Erzsebet, 4,681,887, Cl. 514-254.000.
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Szantay, Csaba; Honty, Katalin; Szabo, Lajos; Keve, Tibor; and Acs, Tibor, 4,659,816, Cl. 540-478.000.

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Kevex Corporation: *See—*

Bryson, Charles E., III; and Jones, Douglas L., 4,680,467, Cl. 250-305.000.

Kelly, Michael A., 4,710,625, Cl. 250-305.000.

Skillicorn, Brian, 4,646,338, Cl. 378-110.000.

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Turner, David W.; Dixon, Andrew J.; Gehring, Karl A.; and Keenlyside, Michael, 4,713,833, Cl. 378-119.000.

KevKel, Inc.: *See—*

Kronz, Kevin W., 4,673,118, Cl. 224-259.000.

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Meagher, Donald J. R., 4,694,404, Cl. 364-518.000.

Key, Edward H., to Phoenix Terminal Blocks Inc. Solderless electrical connector. 4,701,138, 10-20-87, Cl. 439-417.000.

Key, James D. Belt for arthroscopic treatment of an injured leg supported by a surgeon. 4,709,693, 12-1-87, Cl. 128-80.00G.

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Key, Larry: *See—*

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Key, Joe W.; and Shumaker, Fred E., 4,698,038, Cl. 441-5.000.

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Golub, Allyn; and Hendeles, Leslie (said Allyn Golub assors. to), 4,689,213, Cl. 424-45.000.

Hsiao, Charles H., 4,634,587, Cl. 424-19.000.

Hsiao, Charles H., 4,708,867, Cl. 424-80.000.

Moore, Luana, 4,639,455, Cl. 514-282.000.

Sackner, Marvin A., 4,679,555, Cl. 128-203.150.

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Salant, Richard F.; Key, William E.; and Kay, Peter L., 4,643,437, Cl. 277-28.000.

Keycom Electronic Publishing: *See—*

Chorley, William; Redding, Robert; and Fries, Christopher, 4,649,533, Cl. 370-58.000.

Keycon Hardware Products, Inc.: *See—*

Craig, Clark E., 4,672,827, Cl. 70-367.000.

Keycon Industries, Inc.: *See—*

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Keyes, Marion A., IV; and Shaffer, Jeremiah J., to Babcock & Wilcox Company, The. Adaptive gain compressor surge control system. 4,697,980, 10-6-87, Cl. 415-1.000.

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Keyes, Melvin H., to Owens-Illinois Glass Container Inc. Protein modification to provide enzyme activity. 4,713,335, 12-15-87, Cl. 435-183.000.

Keyes, Melvin H., to Owens-Illinois Glass Container Inc. Protein modification to provide enzyme activity. 4,714,676, 12-22-87, Cl. 435-176.000.

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Reneau, Raymond P., 4,633,859, Cl. 128-205.260.

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Keys, Barbara J.: *See—*

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Keys, Dalen E.; and Nebe, William J., to Du Pont de Nemours, E. I., and Company. Photopolymer films containing microencapsulated sensitometric adjuvants. 4,636,453, 1-13-87, Cl. 430-138.000.

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Keys, Kenney L.; Keys, Troy L.; and Keys, Kevin R., 4,653,768, Cl. 280-279.000.

Keys, Robert O., to Sherex Chemical Company, Inc. Promoters for froth flotation of coal. 4,678,561, 7-7-87, Cl. 209-166.000.

Keys, Robert O., to Sherex Chemical Company, Inc. Promotors for froth floatation of coal. 4,678,562, 7-7-87, Cl. 209-166.000.

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Keysor, Charles W., to Dukane Corporation. Audio amplifier system. 4,651,112, 3-17-87, Cl. 330-297.000.

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Potts, Kenneth F., 4,662,290, Cl. 110-109.000.

Keystone Adjustable Cap Company: *See—*

Ranzer, Norman W., 4,651,352, Cl. 2-197.000.

Keystone Development Corporation: *See—*

Wolf, Alexander, 4,646,871, Cl. 181-106.000.

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Fritz, Conrad M., 4,635,330, Cl. 29-148.40A.

Keystone International, Inc.: *See—*

Bell, Clifford, 4,701,938, Cl. 375-36.000.

Holtgraver, Edward G., 4,711,427, Cl. 251-308.000.

Scobie, William B.; and Wagberg, Michael L., 4,648,418, Cl. 137-67.000.

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Khaidukov, Georgy K.: *See—*

Mkhikian, Robert M.; Shagmian, Suren G.; Markarian, Temur G.; Khaidukov, Georgy K.; Velidzhanian, Sofia V.; Manukian, Artashes R.; Karapetian, Artur K.; Kazarian, Aram V.; and Airapetian, Robert R., 4,708,628, Cl. 425-406.000.

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Nevgod, Vasily A.; Kadyrov, Valery K.; and Khairutdinov, Albert M., 4,669,658, Cl. 239-81.000.

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Elliott, Michael; Janes, Norman F.; and Khambay, Bhupinder P. S., 4,696,944, Cl. 514-531.000.

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Driscoll, John S.; Khan, A. Hameed; and Chou, Feng-Te, 4,704,384, Cl. 514-183.000.

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Lentz, David J.; and Khan, Mohammad A., 4,666,224, Cl. 604-265.000.

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Fredholm, Allan; Davidson, James H.; Khan, Tasadduq; and Theret, Jean-Marc C. F., 4,639,280, Cl. 148-404.000.

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Choe, Eui W.; Khanarian, Garo; and Garito, Anthony F., 4,659,177, Cl. 350-96.340.

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Khanna, Nirmal K., to FMC Corporation. Manufacture of sodium tripolyphosphate from wet acid. 4,676,963, 6-30-87, Cl. 423-315.000.

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Khanna, Satya P., to American Telephone & Telegraph Company, AT&T Information Systems Inc. Transducer device. 4,691,363, 9-1-87, Cl. 381-205.000.

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Sorochenko, Oleg A., 4,671,274, Cl. 128-303.140.

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Aubakirov, Marat T.; Limanov, Esengali L.; Syzdykov, Askar K.; Abdrazakov, Ravil S.; Tleuov, Murat G.; Khazhuer, Vladimir S.; Buzdov, Ruslan D.; and Khashirov, Vladislav K., 4,681,174, Cl. 175-330.000.

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KHD Canada, Inc.: *See*—
Haas, Werner; Hilker, Dieter; and Slezak, Pavel J., 4,633,823, Cl. 123-41.610.

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himanych, Anatoly P.: *See*—
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Lynch, Charles T.; Vahldiek, Fred W.; and Khobaib, Mohammad, 4,714,564, Cl. 252-110.000.

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hoja, Mirza A.; and Wogoman, Frank W., to Miles Laboratories, Inc. Reagent test strip reading instrument. 4,689,202, 8-25-87, Cl. 422-65.000.

hojasteh, Mahmoud M.: *See*—
Sachdev, Krishna G.; Kwong, Ranee W.; Khojasteh, Mahmoud M.; and Sachdev, Harbans S., 4,665,006, Cl. 430-270.000.

hokhar, Abdul R.: *See*—
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Suciu, George D.; and Khonsari, Ali M., 4,634,796, Cl. 568-757.000.

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- Kicherer, Robert: *See—*
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- Kidd, Grace E. T., executor: *See—*
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- Kidd, H. Keith: *See—*
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- Kidd, R. Christopher: *See—*
  - Mercer, John E.; Kidd, R. Christopher; and Merl, Milton, 4,706,824, Cl 211-188.000
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  - Mussmann, Sara M.; and Kidd, Roy E., 4,682,157, Cl 340-605.000
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  - Pusateri, John F.; Kidd, Thomas E.; and Lazalier, Glen R., 4,654,077, Cl 73-92.000
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  - MacDonald, Richard L.; and von Winckelmann, Ernst, 4,688,72 Cl 239-17.000
  - Stewart, James B., 4,701,585, Cl 219-10.55E
  - Thoben, Matthew A.; Clowers, Earl; Cihi, Gu ; Ball, Dean; McCurdy, Jack L.; and Rummelsburg, Al S., 4,645,908, C 219-411.000
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  - Addleman, Jeffrey L., 4,674,944, Cl 414-708.000
  - Barraza, Arthur; and Kearney, Calvin T., 4,695,222, Cl 415-80.00
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  - Gillis, Joseph P.; and Jess, Norval M., 4,637,473, Cl 169-61.00
  - Grant, Casey C.; and Peterson, Parker, 4,664,199, Cl 169-46.00
  - Lamberis, Christos, 4,651,861, Cl 194-204.000
  - Mentzer, William R., 4,635,805, Cl 212-230.000
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  - Sterner, Russell L., 4,657,109, Cl 182-2.000
  - Woodworth, John L.; and Lynch, John M., 4,657,134, C 206-219.000
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  - Brindle, Ralph C.; and Kidder, Kenneth B., 4,654,651, C 340-825.200
- Kidder, Robert A.; Vancelette, Stanley R.; Whalen, Willis B.; and Di Nozzi, Robert D., to USM Corporation. Adhesive dispenser 4,646,676, 3-3-87, Cl 118-243.000
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- Kido, Hitoshi; Igarashi, Yoshinobu; and Okabe, Junji, to Mitsubishi Denki Kabushiki Kaisha. Ceiling-concealment type air conditioning apparatus. 4,660,389, 4-28-87, Cl 62-298.000
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  - Tanaka, Shinsaku; and Kido, Kunio, 4,709,871, Cl 242-68.300
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- Kido, Tomoyuki: *See—*
  - Yano, Misuru; Kido, Tomoyuki; and Ochi, Yoshiyuki, 4,680,23 Cl 428-688.000
- Kido, Tooru: *See—*
  - Tohya, Hirokazu; and Kido, Tooru, 4,698,517, Cl 307-43.000
- Kido, Yoshinobu; and Yamada, Toshihiro, to Mazda Motor Corporation. Acceleration detecting systems for internal combustion engines 4,658,640, 4-21-87, Cl 73-118.200
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- Kidson, Paul: *See—*
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- Kidwell, Charles E.: *See—*
  - Batty, Donald N.; Schwandt, Gregory J.; and Kidwell, Charles E., 4,710,602, Cl 200-315.000
- Kidwell, John H.; Prueter, William P.; and Eaton, Andrew M., to Babcock & Wilcox Company, The. Combination downflow-upflow vapor-liquid separator. 4,648,890, 3-10-87, Cl 55-347.000
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  - Curry, Bill P.; Jones, John H.; Seiber, Brian L.; Price, Lynwood L.; Powell, Homer M.; and Kiech, Earl L., 4,679,939, Cl 356-316.000
- Kiedaisch, Randall A., to Manville Corporation. Article display carton 4,705,208, 11-10-87, Cl 229-120.080
- Kiefel, Bernhard: *See—*
  - Hoppner, Klaus; and Kiefel, Bernhard, 4,691,681, Cl 123-556.000

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- Urban, Manfred; and Kiefer, Hans, 4,704,537, Cl. 250-472.100.

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- Etzbach, Karl-Heinz; Neumann, Peter; Dust, Matthias; Ringsdorf, Helmut; Schmidt, Hans-Werner; Baur, Guenter; Windscheid, Friedrich; and Kiefer, Rudolf, 4,702,945, Cl. 428-1.000.

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- Magauran, Edward D.; Cody, Charles A.; Reichert, William W.; Kieke, Maurielio D.; Kemnetz, Steven J.; and Chiavoni, Araxi, 4,664,820, Cl. 252-28.000.

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- Ingenhoven, Jurgen, 4,645,050, Cl. 192-36.000.
- Ingenhoven, Jurgen, 4,669,283, Cl. 70-264.000.
- Ingenhoven, Jurgen, 4,708,378, Cl. 292-201.000.
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- Kiekhaefer, Fred C., 4,649,766, Cl. 74-475.000.

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Kiele, Walter: *See*—
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Kiener, Alfons: *See*—
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- Hauger, Josef; Madge, Werner; and Gille, Paul, 4,650,177, Cl. 271-305.000.
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- Akao, Takeshi; and Furukawa, Toshio, 4,709,467, Cl. 34-10.000.
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- Endo, Seiji; and Kikuchi, Eiji, 4,705,482, Cl. 439-460.000.

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Nunomi, Tatsuya; and Kikuchi, Hiroshi, 4,640,663, Cl. 414-730.000.

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Oshikoshi, Yuji; Kato, Masashi; and Kikuchi, Hisashi, 4,695,143, Cl. 354-86.000.

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Takai, Kazuki; Kinoshita, Shigeo; Fukazawa, Toshihiko; and Kikuchi, Junichi, 4,672,478, Cl. 360-93.000.

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Kikuchi, Masahiro: *See*—

Iguchi, Yukinobu; Murakami, Kanemitsu; and Kikuchi, Masahiro, 4,703,223, Cl. 313-414.000.

Kato, Hiroshi; Chiba, Tomosuke; and Kikuchi, Masahiro, 4,634,918, Cl. 313-36.000.

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Kikuchi, Masatsune; Matsui, Satoru; Omori, Hiroshi; and Shimoda, Masao, to Onoda Cement Company, Ltd. Cement accelerating agent. 4,650,523, 3-17-87, Cl. 106-315.000.

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Kikuchi, Naomi. Wind electric generator. 4,673,822, 6-16-87, Cl. 290-44.000.

Kikuchi, Noboru; Nakamura, Tadashi; and Maruyama, Takahito, to Alps Electric Co., Ltd. Thermal printer. 4,657,417, 4-14-87, Cl. 400-185.000.

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Inagami, Kaoru; and Kikuchi, Noboru, 4,691,011, Cl. 530-832.000.

Kikuchi, Osamu: *See*—

Kasai, Kiyoshi; Hattori, Masayuki; Kikuchi, Osamu; Takeuchi, Hiromi; Hirai, Haruhiro; and Sakurai, Nobuo, 4,694,035, Cl. 524-458.000.

Kikuchi, Sadatake: *See*—

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Shimizu, Kenichi; Kikuchi, Sanae; and Nakano, Hitoshi, 4,709,931, Cl. 277-153.000.

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Kikuchi, Takehiro: *See*—

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Kobayashi, Akio; Harada, Susumu; Harada, Takashi; Kikuchi, Takehiro; and Honda, Masakazu, 4,663,717, Cl. 364-421.050.

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Miyauchi, Terukatsu; Ikeda, Yoneichi; and Kikuchi, Tatsuji, 4,675,098, Cl. 208-127.000.

Kikuchi, Tatsuro: *See*—

Nakatani, Seiichi; Yubaka, Satoru; Okinaka, Hideyuki; Ishida, Toru; Makino, Osamu; and Kikuchi, Tatsuro, 4,714,570, Cl. 252-518.000.

Kikuchi, Teruyoshi: *See*—

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Kikuchi, Tomoo: *See*—

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Kikuchi, Toshitsugu: *See*—

  Hagiwara, Tatsuo; Imai, Keiji; Nagaoka, Shigenori; Kogumazaka, Shinji; Yahagi, Kyoichi; Imagawa, Takeshi; Ishii, Hidenaga; and Kikuchi, Toshitsugu, 4,645,133, Cl. 241-182.000

  Hagiwara, Tatsuo; Imai, Keiji; Nagaoka, Shigenori; Kogumazaka, Shinji; Yahagi, Kyoichi; Imagawa, Takeshi; Ishii, Hidenaga; and Kikuchi, Toshitsugu, 4,664,321, Cl. 241-176.000

  Imai, Keiji; Nagaoka, Shigenori; Kogumazaka, Shinji; Imagawa, Takeshi; Ishii, Hidenaga; and Kikuchi, Toshitsugu, 4,666,591, Cl. 209-38.000

Kikuchi, Toshiyuki, and Yamamoto, Koichi, to Mazda Motor Corporation. Control for shifting between gears of a vehicle automatic transmission. 4,665,777, 5-19-87, Cl. 74-866.000

Kikuchi, Toshiyuki, and Yamamoto, Koichi, to Mazda Motor Corporation. Control of a vehicle automatic transmission. 4,694,709, 9-22-87, Cl. 74-866.000

Kikuchi, Toshiyuki: *See*—

  Higashi, Haruki; Yashiki, Seiji; Waki, Kouichirou; and Kikuchi, Toshiyuki, 4,640,394, Cl. 192-3.290

  Matsuoka, Toshihiro; and Kikuchi, Toshiyuki, 4,669,335, Cl. 74-866.000

  Sotoyama, Kaoru; Sumida, Shizuo; and Kikuchi, Toshiyuki, 4,687,083, Cl. 192-0.076

Kikuchi, Tsutomu: *See*—

  Ura, Syouzaburo; Kikuchi, Tsutomu; and Yasuda, Makoto, 4,700,666, Cl. 123-52.0MB

Kikuchi, Uhee; Nozaki, Hiroyoshi; Fukuda, Masao; and Satake, Toshihiko, to Honda Giken Kogyo Kabushiki Kaisha. Sealing apparatus. 4,698,005, 10-6-87, Cl. 425-163.000

Kikuchi, Uhee; and Takeo, Tadashi, to Honda Giken Kogyo Kabushiki Kaisha. Painting apparatus for vehicle body. 4,714,044, 12-22-87, Cl. 118-314.000

Kikuchi, Yasunobu: *See*—

  Horio, Kimihide; Kikuchi, Yasunobu; and Fujita, Hiroya, 4,658,769, Cl. 123-90.310

Kikuchi, Yasuo: *See*—

  Kiyoshige, Tatsuo; Kikuchi, Yasuo; Takazoe, Ichiro; and Okuda, Katsuji, 4,689,221, Cl. 424-87.000

Kikuchi, Yasushi; Kayama, Kazuyoshi; Tokieda, Akinori; Watanabe, Hiroyuki; and Akita, Shuichi, to Yokohama Rubber Co., Ltd., The, and Nippon Zeon Co., Ltd. Rubber composition for tire tread. 4,677,165, 6-30-87, Cl. 525-332.900

Kikuchi, Yoichi; and Kobayashi, Kenji, to Matsushita Electric Industrial Co., Ltd. Hermetically sealed storage battery. 4,678,725, 7-7-87, Cl. 429-53.000

Kikuchi, Yoshikazu; and Nakao, Reiro, to Corona Engineering Co., Ltd. Electrostatic precipitator. 4,713,092, 12-15-87, Cl. 55-130.000

Kikuchi, Yoshiki: *See*—

  Moriguchi, Haruhiko; Inai, Toshiharu; Ohmori, Takashi; and Kikuchi, Yoshiki, 4,651,167, Cl. 346-76.0PH

Kikuchi, Yoshiyuki: *See*—

  Matsui, Kiyohide; Kikuchi, Yoshiyuki; Hiyama, Tamejiro; Tobita, Etsuko; Kondo, Kiyosi; Akimoto, Akira; Seita, Toru; and Watanabe, Hiroyuki, 4,659,744, Cl. 521-32.000

  Matsui, Kiyohide; Kikuchi, Yoshiyuki; Hiyama, Tamejiro; Tobita, Etsuko; and Kondo, Kiyoshi, 4,661,231, Cl. 204-252.000

Kikuchi, Yuji: *See*—

  Komiya, Jujiro; Kikuchi, Yuji; and Suzuki, Katsuaki, 4,655,977, Cl. 261-153.000

Kikuma, Toshio; Matsumoto, Hiromi; Tagawa, Masayoshi; Kajiwara, Toshiyuki; Kimura, Tomoaki; Iida, Yoshihiko; and Yoshimoto, Kenichi, to Hitachi, Ltd., and Nippon Steel Corporation. Method and apparatus for controlling snake motion in rolling mills. 4,700,312, 10-13-87, Cl. 364-472.000

Kikumoto, Ryoji; Fukami, Harukazu; Nakao, Kenichiro; and Sugano, Mamoru, to Mitsubishi Chemical Industries Limited. Alkylenedioxybenzene and acid addition salts thereof useful as hypotensives. 4,684,651, 8-4-87, Cl. 514-253.000

Kikumoto, Ryoji; Fukami, Harukazu; Nakao, Kenichiro; and Sugano, Mamoru, to Mitsubishi Chemical Industries Limited. Alkylenedioxybenzene derivatives and acid addition salts thereof. 4,684,739, 8-4-87, Cl. 549-350.000

Kikumoto, Ryoji: *See*—

  Fukami, Harukazu; Kikumoto, Ryoji; Nakao, Kenichiro; Nitta, Issei; and Inoue, Shinya, 4,716,161, Cl. 514-222.000

  Ninomiya, Kunihiro; Nitta, Issei; Tobe, Akihiro; Egawa, Mitsuo; and Kikumoto, Ryoji, 4,695,568, Cl. 514-258.000

  Okamoto, Shosuke; Kikumoto, Ryoji; Tamao, Yoshikuni; Tonomura, Shinji; and Ohkubo, Kazuo, 4,670,420, Cl. 514-20.000

Kikumoto, Tadao; and Murakami, Isato, to Roland Kabushiki Kaisha. Synchronizing signal generator for musical instrument. 4,694,724, 9-22-87, Cl. 84-1.030

Kikunaga, Shoji: *See*—

  Kato, Hiroshi; Kikunaga, Shoji; and Sugama, Koichi, 4,654,738, Cl. 360-108.000

Kikut, Botho: *See*—

  Zimmer, Ernst; and Kikut, Botho, 4,710,093, Cl. 414-730.000

Kikuta, Shigeru, to Hirose Electric Co., Ltd. Locking mechanism for electrical connector. 4,699,438, 10-13-87, Cl. 439-95.000

Kikuta, Shigeru: *See*—

  Nakazawa, Akira; Kikuta, Shigeru; Koike, Kihachiro; Matsuoka, Kensaku; and Nishino, Yoshimitsu, 4,681,388, Cl. 439-449.000

  Nakazawa, Akira; Kikuta, Shigeru; Koike, Kihachiro; Matsuoka, Kensaku; and Nishino, Yoshimitsu, 4,681,389, Cl. 439-557.000

  Nakazawa, Akira; Kikuta, Shigeru; Koike, Kihachiro; Matsuoka, Kensaku; and Nishino, Yoshimitsu, 4,688,871, Cl. 439-357.000

Kikuta, Sigeru, to Hirose Electric Co., Ltd. Shield structure for electric connectors. 4,639,067, 1-27-87, Cl. 339-143.00R

Kikutani, Fumitaka: *See*—

  Tanaka, Eiichi; Furumai, Koji; and Kikutani, Fumitaka, 4,675,428, Cl. 431-76.000

Kikuya, Satoshi: *See*—

  Shibaike, Narito; Kikuya, Satoshi; and Minemoto, Seiko, 4,648,0 Cl. 360-132.000

Kilayko, Greg S. Radiator flushing device. 4,634,017, 1-6-87, Cl. 220-203.000

Kilbane, Farrell M.; Coleman, Richard A.; Dunbar, Frank C.; and Gibson, Alan F. Hot dip aluminum coated chromium alloy steel. 4,675,214, 6-23-87, Cl. 427-320.000

Kilbane, Farrell M., and Dunbar, F. Curtiss, to Armco Inc. Oxidation resistant ferrous base foil and method therefor. 4,686,155, 8-11-87, Cl. 428-653.000

Kilbane, George J., and Subrahmanian, K. P., to Minnesota Mining and Manufacturing Company. Foam-sealed electrical devices and method and composition therefor. 4,640,978, 2-3-87, Cl. 174-23.00R

Kilburn, Norman W.: *See*—

  Johnson, Robert D.; Havener, John W.; Reyner, Mark F.; Reyner, Franklin W., Jr.; Whitver, Loren K.; and Kilburn, Norman W., 4,697,721, Cl. 221-211.000

Kilby, J. F.: *See*—

  Rossborough, Richard F., and Whitty, Graeme, 4,711,2 Cl. 134-138.000

Kilcher, Beat; Buhler, Ernst; and Levy, Gideon, to AG fur industrielle Elektronik AGIE Losone b. Locarno. Method and apparatus for the electroerosive working of workpieces. 4,655,888, 4-7-87, Cl. 204-129.430

Kilcher, Beat; and Levy, Gideon, to AG fur industrielle Elektronik AGIE Losone b. Locarno. Apparatus for guiding a wire or strip-like cutting electrode on a machine tool. 4,667,078, 5-19-87, Cl. 219-69.00W

Kilcher, Beat: *See*—

  Budin, Josef; Sciaroni, Boris; Kilcher, Beat; and Levy, Gideon, 4,634,825, Cl. 219-69.00W

  Del Bello, Athos; and Kilcher, Beat, 4,709,111, Cl. 219-69.00M

Kildea, James M.; Bedner, Maria D.; and Gubick, John E., to Dow Chemical Company, The. Thermoformed plastic wrap dispenser. 4,637,514, 1-20-87, Cl. 206-406.000

Kile, Jackson: *See*—

  Farney, Michael K., and Kile, Jackson, 4,706,834, Cl. 220-230.000

Kilen, Richard S.: *See*—

  Ashbee, William H.; Kilen, Richard S.; Kirton, Alan J.; Rosehouse, Larry E.; and Valent, James A., 4,675,761, Cl. 360-78.000

Kilfa Limited: *See*—

  Loveridge, Ronald, 4,710,023, Cl. 356-124.000

Kilgore, Colin H.: *See*—

  Sukonnik, Israil M.; Judge, John S.; and Kilgore, Colin H., 4,711,115, Cl. 72-329.000

Kilgore, Lee A., and McKee, Bobby D., to Westinghouse Electric Corp. Homopolar dynamoelectric machine with self-compensating current collector. 4,710,665, 12-1-87, Cl. 310-219.000

Kilgore, Ronald B. Dynamic rotational counterbalance structure. 4,674,356, 6-23-87, Cl. 74-573.00R

Kilgore, Woodson B. Vehicle anti-theft system with pressure sensitive sensor. 4,636,651, 1-13-87, Cl. 307-10.0AT

Kilgour, John A., and Jorgenson, Michael W., to Union Carbide Corporation. Polyether silicone copolymers with mixed hydroxy alkoxy capping for stabilizing high solid content, molded, flexible urethane foam. 4,690,955, 9-1-87, Cl. 521-112.000

Kilgour, Norman R., to J. B. Holden Co. Telescopic sight mount. 4,688,345, 8-25-87, Cl. 42-101.000

Kilham, Peter. Bird feeder with adjustable feed tray. 4,690,101, 9-1-87, Cl. 119-52.00R

Kilian, Alois, to Dravo Corporation. Process of thermally treating lump or agglomerated materials on a travelling grate. 4,669,007, 6-2-87, Cl. 432-14.000

Kiliany, Gary J.: *See*—

  Friedman, Mark B.; Kiliany, Gary J.; and Dzmura, Mark R., 4,648,052, Cl. 364-550.000

Kilinskis, David C.: *See*—

  Campisi, Carl; Kilinskis, David C.; and Sorlie, Egil, 4,704,517, Cl. 235-382.000

Kilkson, Henn: *See*—

  Abbott, Scot D.; Levin, Herman W.; Kobos, Robert K.; Kilkson, Henn; and Peterson, Dale R., 4,699,887, Cl. 436-70.000

Killar, Thaddeus. Convertible sun visor. 4,690,451, 9-1-87, Cl. 296-97.00G

Killark Electric Manufacturing Co.: *See*—

  Falk, Edward J.; and Brombolich, Lawrence J., 4,664,281, Cl. 220-3.800

  Roots, Rolland R., 4,638,297, Cl. 340-304.000

Killeen, Walter H. Portable hoist. 4,690,248, 9-1-87, Cl. 182-118.000

Killen, H. Ron; Wilkins, Scott A.; and Frantz, Douglas C., to Chrysler Motors Corporation. Non-adjustable throttle position indicator. 4,637,361, 1-20-87, Cl. 123-339.000

Killer, Walter; Riniker, Hans; and Gloor, Alfred, to Dr. Killer Verfahrenstechnik. Mixing and/or comminuting apparatus. 4,674,6 6-23-87, Cl. 241-98.000

Killgoar, Paul C., Jr.: *See*—

  Theodore, Ares N.; and Killgoar, Paul C., Jr., 4,645,791, Cl. 524-490.000

Kilgrove, Thomas O., to United States of America, National Aeronautics and Space Administration. Self-locking double retention redundant pull pin release. 4,703,967, 11-3-87, Cl. 294-82.240.

Killgus, Heinrich: *See—*

  Simon, Horst; Killgus, Heinrich; and Wiest, Otto, 4,668,067, Cl. 354-246.000.

Killian, Edmund, to Finkel Outdoor Products, Inc. Table leg assembly and method of assembling same. 4,700,915, 10-20-87, Cl. 248-188.100.

Killian, Edmund F., and Berliner, Wallace H., to Waldes Truarc Inc. Bowed internal spring retaining ring that functions regardless of its orientation when installed in a groove. 4,692,079, 9-8-87, Cl. 411-353.000.

Killian, John J., III: *See—*

  Wickman, John A., and Killian, John J., III, 4,683,731, Cl. 70-69.000.

Killian, Joseph R.: *See—*

  Fetty, Walter; and Killian, Joseph R., 4,716,180, Cl. 514-782.000.

Killian Latex, Inc.: *See—*

  Fetty, Walter; and Killian, Joseph R., 4,716,180, Cl. 514-782.000.

Killion, Mark E.: *See—*

  Kallinger, Franz; and Killion, Mark E., 4,696,135, Cl. 52-121.000.

Killion, Mead C., and Wilson, Donald L. Response-modifying acoustic couplers for hearing aids. 4,677,675, 6-30-87, Cl. 381-68.200.

Killion, Mead C. Insert earphones for audiometry. 4,677,679, 6-30-87, Cl. 381-74.000.

Killion, Mead C., to Industrial Research Products, Inc. Class D hearing aid amplifier. 4,689,819, 8-25-87, Cl. 381-68.000.

Killip, Graham R.; Camp, Ronnie W.; and Orr, Clyde, Jr., to Micromeritics Instrument Co. Temperature-controlling apparatus for use with pore volume and surface area analyzers. 4,693,124, 9-15-87, Cl. 73-863.110.

Killmaier, Horst: *See—*

  Christopherson, Kjell H.; Odelius, Tomas; Rosemeier, Friedrich; Stenberg, Kaj O.; Svensson, Tommy E.; and Killmaier, Horst, 4,636,204, Cl. 604-283.000.

Killmann, Iroll: *See—*

  Wellberger, Peter; Killmann, Iroll; and Cartellieri, Wolfgang, 4,643,022, Cl. 73-117.300.

Killop, James T., and Holbrook, Gerald W., to Anderson-Cook, Inc. Snap ring forming and grooving. 4,644,772, 2-24-87, Cl. 72-88.000.

Killop, James T., and Holbrook, Gerald W., to Anderson-Cook, Inc. Method for snap ring forming and grooving. 4,689,980, 9-1-87, Cl. 72-88.000.

Killop, James T., to Anderson-Cook, Inc. Coarse pitch spline rolling. 4,712,408, 12-15-87, Cl. 72-88.000.

Killop, James T., to Anderson-Cook, Inc. Threading and projection forming on different size diameters. 4,712,409, 12-15-87, Cl. 72-88.000.

Killop, James T., to Anderson-Cook, Inc. Method and apparatus for cold sizing a round workpiece having multiple diameters. 4,712,410, 12-15-87, Cl. 72-108.000.

Killop, James T.: *See—*

  Anderson, Carl E.; and Killop, James T., 4,677,836, Cl. 72-88.000.

Killough, John E., to Atlantic Richfield Company. Hydrocarbon recovery process. 4,678,033, 7-7-87, Cl. 166-246.000.

Killough, Ray B.; Higgins, Alan S.; and Broome, Thomas M., to Piedmont Natural Gas Company. Meter prover. 4,658,634, 4-21-87, Cl. 73-3.000.

Killoway, James M.; Stubbings, David J.; and Sparks, Geoffrey S., to U.S. Philips Corporation. Frequency synthesized multichannel radio apparatus. 4,658,261, 8-18-87, Cl. 455-76.000.

Kilman, Brenda J., and Cowart, Betty J. Artificial fingernail applicator tool. 4,648,416, 3-10-87, Cl. 132-88.700.

Kilmer, Lauren G., and Carter, John W., Jr. Hydraulic core cutting motor. 4,708,213, 11-24-87, Cl. 175-78.000.

Kilmer, Paul R., to Cooper Industries, Inc. Adjustable support bracket for conductor wrapping tool attachment. 4,633,921, 1-6-87, Cl. 140-124.000.

Kilmon, Jack, to Inbex, Inc. Cell growth inhibitor and method. 4,672,107, 6-9-87, Cl. 530-350.000.

Kilmoyer, James E., to Cameron Iron Works, Inc. Heat sensitive valve. 4,635,670, 1-13-87, Cl. 137-75.000.

Kilpikari, Jyrki: *See—*

  Tormala, Pertti; Rokkanen, Pentti; Kilpikari, Jyrki; Patiala, Hannu; Vainionpaa, Seppo; Vihtonen, Kimmo; and Mero, Matti, 4,655,203, Cl. 128-92.0YP.

Kilroy, Stanley A. R., to Alpen Dairy Foods Pty. Limited. Process of preparing food products. 4,680,194, 7-14-87, Cl. 426-602.000.

Kilstofte, Richard B., to Fortel, Inc. Drive mechanism for a two-tape telephone answering machine using a single reversible motor. 4,649,562, 3-10-87, Cl. 379-70.000.

Kilstofte, Richard B., to Fortel, Inc. Reversible drive mechanism for a magnetic tape in a magnetic tape recorder. 4,698,706, 10-6-87, Cl. 360-96.400.

Kilthau, Hans-Dieter: *See—*

  Fey, Edmond O.; Haselbauer, Peter; Jung, Dae Y.; Kaschak, Ronald A.; Kilthau, Hans-Dieter; Magnuson, Roy H.; and Wagner, Robert J., 4,684,545, Cl. 427-98.000.

Kiltie, Ordean; and Marrs, Thomas C., to Marshall Electric Corporation. Winding form for high voltage transformer. 4,684,912, 8-4-87, Cl. 336-185.000.

Kim, Pang M., and Holub, Fred F., to General Electric Company. Water softening system particularly for individual appliances. 4,645,595, 2-24-87, Cl. 210-181.000.

Kim, Bang M., to General Electric Company. Method for continuous separation of dissolved materials. 4,664,808, 5-12-87, Cl. 210-638.000.

Kim, Bang M., to General Electric Company. Multilayer composite structure for smooth surfaces. 4,716,072, 12-29-87, Cl. 428-212.000.

Kim, Bonjae. Key holder. 4,653,299, 3-31-87, Cl. 70-456.00R.

Kim, Bumman; and Tserng, Hua Q., to Texas Instruments Incorporated. Heterojunction device. 4,641,161, 2-3-87, Cl. 357-22.000.

Kim, Byoung Y., to Leland Stanford Junior University, The Board of Trustees of the. Fiber optical rotation sensor with extended dynamic range. 4,637,722, 1-20-87, Cl. 356-350.000.

Kim, Byoung Y., to Stanford University. Gated fiber optic rotation sensor with linearized scale factor. 4,707,136, 11-17-87, Cl. 356-350.000.

Kim, Byoung Y.: *See—*

  Brooks, Janet L.; Tur, Moshe; Youngquist, Robert C.; Kim, Byoung Y.; Wentworth, Robert H.; Shaw, Herbert J.; and Blotekjaer, Kjell, 4,699,513, Cl. 356-345.000.

Kim, Chi S.: *See—*

  Lee, Byong G.; Song, Ju M.; and Kim, Chi S., 4,661,468, Cl. 502-333.000.

Kim, Chil Sung: *See—*

  Shin, Myung Chul; Kim, Chil Sung; Chung, Young Hoon; and Lee, Kwang Koo, 4,683,721, Cl. 60-527.000.

Kim, Chong Y.: *See—*

  Brewer, Jack W.; and Kim, Chong Y., 4,659,667, Cl. 435-222.000.

  Brothers, Charles E.; and Kim, Chong Y., 4,673,647, Cl. 435-189.000.

Kim, Choong W. Supercavitation centrifugal pump. 4,681,508, 7-21-87, Cl. 415-116.000.

Kim, Choung U., and Misco, Peter F., Jr., to Bristol-Myers Company. Carbapenem antibiotics. 4,640,799, 2-3-87, Cl. 540-350.000.

Kim, Choung U., and Misco, Peter F., Jr., to Bristol-Myers Company. Carbapenem antibiotics. 4,642,341, 2-10-87, Cl. 540-350.000.

Kim, Choung U., to Bristol-Myers Company. Carbapenem antibiotics. 4,644,061, 2-17-87, Cl. 540-350.000.

Kim, Choung U., and Misco, Peter F., Jr., to Bristol-Myers Company. Carbapenem antibiotics. 4,665,170, 5-12-87, Cl. 540-350.000.

Kim, Choung U., to Bristol-Myers Company. Carbapenem antibiotics. 4,683,301, 7-28-87, Cl. 540-350.000.

Kim, Choung Un, and Misco, Peter F., Jr., to Bristol-Myers Company. Carbapenem antibiotics. 4,710,568, 12-1-87, Cl. 540-350.000.

Kim, Daniel S. Y. Dental instrument. 4,643,677, 2-17-87, Cl. 433-164.000.

Kim, Daniel S. Y. Frenotomy method and apparatus. 4,655,223, 4-7-87, Cl. 128-334.00R.

Kim, Daniel S. Y. Hair cutter. 4,670,982, 6-9-87, Cl. 30-133.000.

Kim, Don K. Process for preparing pyrrolidine derivatives. 4,668,798, 5-26-87, Cl. 548-533.000.

Kim, Dongsung R., to Burroughs Corporation. Multi-phase subroutine control circuitry. 4,649,472, 3-10-87, Cl. 364-200.000.

Kim, Dongsung R., to Burroughs Corporation. Programmable automatic power-off system for a digital terminal. 4,665,536, 5-12-87, Cl. 377-16.000.

Kim, Dongsung R., and Kronies, Reinhard K., to Unisys Corporation. Parity detection system for wide bus circuitry. 4,710,935, 12-1-87, Cl. 371-49.000.

Kim, Eui D., to Gold Star Co., Ltd. Antenna feeder-connecting terminal for a television. 4,669,803, 6-2-87, Cl. 439-571.000.

Kim, Eui D., and Choi, Hyun J., to Gold Star Co., Ltd. Circuit for eyesight protection in a television set. 4,716,469, 12-29-87, Cl. 358-245.000.

Kim, George A. Method of machining hard and brittle material. 4,643,161, 2-17-87, Cl. 125-30.00R.

Kim, George A. Ultramicrotome tool. 4,697,489, 10-6-87, Cl. 83-856.000.

Kim, Guy N. Lock assembly with a changeable locking combination. 4,669,285, 6-2-87, Cl. 70-312.000.

Kim, Gwan; and Ernest, Michael V., to W. R. Grace & Co. Doubly promoted platinum group metal catalysts for emission control and method for making the catalysts. 4,654,319, 3-31-87, Cl. 502-304.000.

Kim, Han J.: *See—*

  DeNuccio, Ron J.; Kim, Han J.; and Leung, Chi H., 4,694,558, Cl. 29-527.200.

Kim, Han K. Picture frame construction. 4,662,092, 5-5-87, Cl. 40-155.000.

Kim, Heung-Tai, to B. F. Goodrich Company, The. Extruder with screw having core portion of polygonal cross-section. 4,712,992, 12-15-87, Cl. 425-207.000.

Kim, Ho K., and Choi, Seung E. Beverage container with enclosed cooling means. 4,679,407, 7-14-87, Cl. 62-294.000.

Kim Hotstart Mfg. Co., Inc.: *See—*

  Stein, John, 4,679,597, Cl. 138-26.000.

Kim, Hyun S., to Airway Industries, Inc. Handle assembly for luggage case. 4,696,077, 9-29-87, Cl. 16-125.000.

Kim, Il G. Dilator for Sphincter of Oddi. 4,705,041, 11-10-87, Cl. 128-343.000.

Kim, In S. Controlling device of a drill for regular and reversed rotation in non-contact type. 4,649,330, 3-10-87, Cl. 318-756.000.

Kim, In Suk. Device for contact protection and arc prevention of a switch. 4,709,294, 11-24-87, Cl. 361-58.000.

Kim, Jai B., and Yadlosky, John M. Rehabilitation of steel truss bridges by means of reinforcing arches. 4,691,399, 9-8-87, Cl. 14-2.000.

Kim, Jeong R. Swimming apparatus. 4,673,364, 6-16-87, Cl. 441-59.000.

Kim, Jin C. Fishing rod assembly. 4,648,195, 3-10-87, Cl. 43-22.000.

Kim, Jin H., to Samsung Electronics Co., Ltd. Apparatus for quick starting tape in video cassette recorders. 4,695,906, 9-22-87, Cl. 360-85.000.

Kim, Jonathan J. and Katz, Joel D., to Kennecott Corporation. System for preventing decomposition of silicon carbide articles during sintering. 4,649,002, 3-10-87, Cl. 264-58.000.

Kim, Jonathan J. and Venkateswaran, Viswanathan, to Kennecott Corporation. Process for sintering extruded powder shapes. 4,666,775, 5-19-87, Cl. 428-398.000.

Kim, Jonathan J.; Venkateswaran, Viswanathan; and Pheenis, Richard C., to Kennecott Corporation. Plasma arc sintering of silicon carbide. 4,676,940, 6-30-87, Cl. 264-65.000.

Kim, Jonathan J., and Katz, Joel D., to Kennecott Corporation. Method for preventing decomposition of silicon carbide articles during high temperature plasma furnace sintering. 4,698,481, 10-6-87, Cl. 219-121.0PY.

Kim, Jonathan J., and Venkateswaran, Viswanathan, to Kennecott Corporation. Plasma heated sintering furnace. 4,707,583, 11-17-87, Cl. 219-121.00P.

Kim, Jong H.; and Loewenstein, Walter B., to Electric Power Research Institute, Inc. System for and method of producing and retaining tritium. 4,663,111, 5-5-87, Cl. 376-185.000.

Kim, Joo W. Automatic brightness control device. 4,695,885, 9-22-87, Cl. 358-168.000.

Kim, Jung J. Pressure applying apparatus. 4,712,539, 12-15-87, Cl. 128-57.000.

Kim, Jung T., to Allied Corporation. Composites of metal with carbon fluoride and method of preparation. 4,716,059, 12-29-87, Cl. 427-443.100.

Kim, Jung T.: *See*—
  Nalewajek, David; Kim, Jung T.; and McCurry, Lynn E., 4,695,522, Cl. 429-206.000.

Kim, Kwan C. Clamping head for replaceable string mop. 4,694,524, 9-22-87, Cl. 15-150.000.

Kim, Kwang M. Cartridge clip insertion typed magazine for use in the magazine type automatic small weapon. 4,688,344, 8-25-87, Cl. 42-50.000.

Kim, Kwang S.: *See*—
  Prince, Alfred M., and Kim, Kwang S., 4,695,454, Cl. 424-89.000.

Kim, Kwang Y.: *See*—
  Yagi, Naoki; Kim, Kwang Y.; and Nakaji, Tarushige, 4,650,856, Cl. 530-363.000.
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Kimball, David J.: *See*—
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  Crawford, Robert D.; Johnson, Wayne J.; Kimber, Theo, Jr.; Nolff, Douglas; Volk, Jack R.; and Franks, Donald C., 4,715,031, Cl. 370-85.000.

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  Abel, Kent W., and Attoe, Gary N., 4,713,132, Cl. 156-73.100.
  Ales, Thomas M.; Strohbeen, David T.; Damico, Joyce A.; Van Gompel, Paul T.; and Abel, Kent W., 4,639,949, Cl. 2-400.000.
  Ales, Thomas M.; Strohbeen, David T.; and Damico, Joyce A., 4,642,819, Cl. 2-400.000.
  Ales, Thomas M., 4,648,928, Cl. 156-164.000.
  Bernardin, Leo J., 4,699,619, Cl. 604-378.000.
  Bernardin, Leo J., 4,699,620, Cl. 604-385.00A.
  Boggs, Lavada C., 4,707,398, Cl. 428-224.000.
  Boland, Leona G.; Zehner, Georgia L.; and Stevens, Robert A., 4,701,171, Cl. 604-385.00A.
  Boland, Leona G., and Stevens, Robert A., 4,701,175, Cl. 604-385.00A.
  Boland, Leona G.; Stevens, Robert A.; Wilson, John C.; and Zehner, Georgia L., 4,710,187, Cl. 604-385.00A.
  Braun, Ralph V., 4,668,566, Cl. 428-286.000.
  Chen, Franklin M. C.; and Van Bemmel, William R., 4,643,730, Cl. 604-390.000.
  Coenen, Joseph D., 4,642,151, Cl. 156-164.000.
  Coenen, Joseph D.; and Hansel, Daniel A., 4,647,336, Cl. 156-580.100.
  Damico, Joyce A.; Weber, Rebecca J.; and O'Connor, James J., 4,668,230, Cl. 604-385.00A.
  Doshi, Dilip D., 4,646,937, Cl. 221-56.000.
  Ellis, Louise C.; Fahrenkrug, Anne M.; Basten, Julie T.; and Milner, James D., 4,701,177, Cl. 604-385.00A.
  Enloe, Kenneth M.; and Wehman, Timothy L., 4,666,647, Cl. 264-121.000.
  Enloe, Kenneth M., 4,685,916, Cl. 604-385.00A.
  Enloe, Kenneth M., 4,704,116, Cl. 604-385.00A.
  Floyd, David T.; Shanklin, Garry L.; Lynch, Gordon E.; and Meitner, Gary H., 4,683,001, Cl. 106-3.000.
  Gallagher, Nicholas D.; Sternasty, Richard S.; and James, Richard A., 4,698,248, Cl. 428-41.000.
  Grier-Idris, Carletta, 4,662,005, Cl. 2-9.000.
  Grube, Herbert E.; Sciaraffa, Michael A.; Kaspar, Mark L.; and Kaczmarzyk, Leonard M., 4,655,761, Cl. 604-389.000.
  Hammond, Philip G., 4,675,144, Cl. 264-160.000.
  Hammond, Philip G., 4,690,853, Cl. 428-157.000.

- Hathaway, John M., 4,700,939, Cl. 270-39.000.
- Haunschild, Susan M.; Hata, Stephen S.; and Wismer, Shirlee A., 4,690,681, Cl. 604-396.000.
- Heran, William M.; Fleischer, Glen R.; Damico, Joyce A.; and Van Gompel, Paul T., 4,641,381, Cl. 2-400.000.
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- Kellenberger, Stanley R., and Zenker, David L., 4,699,823, Cl. 4[illegible]-219.000.
- Kellenberger, Stanley R.; Rajala, Gregory J.; and Stevens, Robert A., 4,701,179, Cl. 604-394.000.
- Kloehn, Kurt J., and Dolan, Kevin G., 4,650,532, Cl. 156-204.000.
- Lamers, Gregory C.; Endres, Dan D.; Win, Maung H.; and Kuenn, Cary K., 4,659,609, Cl. 428-194.000.
- Lang, Theodore B., 4,715,918, Cl. 156-273.100.
- Lassen, Frederich O., 4,636,209, Cl. 604-378.000.
- Lassen, Frederich O.; Sherrod, Earle H.; Nichols, Ann M.; and Serbiak, Paul J., 4,673,403, Cl. 604-385.00R.
- Lassen, Frederich O., 4,701,237, Cl. 156-252.000.
- LeGault, Robert H.; Jezzi, Arrigo D.; Milner, James D.; Oakley, Barbara; and Franke, Paul G., 4,639,254, Cl. 604-385.00R.
- Mahoney, Brian J., and Lynch, William M., 4,650,530, Cl. 156-73.100.
- Martin, Jeffrey A., and Pomeroy, Philip S., 4,664,103, Cl. 128-132.00D.
- McFarland, Timothy M., and Lang, Theodore B., 4,655,757, Cl. 604-366.000.
- Meuli, Michael G., and Knaul, Gary H., 4,675,016, Cl. 604-385.00A.
- Miers, Robert M., 4,689,143, Cl. 209-240.000.
- Morell, Charles J., and Strickland, Mark D., 4,636,429, Cl. 428-288.000.
- Morell, Lori A., and Wessel, Joyce A., 4,670,913, Cl. 5-227.000.
- Morman, Michael T., 4,652,487, Cl. 428-138.000.
- Morman, Michael T., and Wisneski, Tony J., 4,655,760, Cl. 604-385.00A.
- Morman, Michael T., 4,657,802, Cl. 428-152.000.
- Morman, Michael T., and Wisneski, Tony J., 4,692,371, Cl. 428-224.000.
- Morris, Marion C.; Hill, Randolph J.; Frick, Richard H.; and Koss, Hugo L., 4,645,135, Cl. 242-67.10R.
- Newman, William R., 4,648,513, Cl. 206-614.000.
- Nohr, Ronald S., and McGinniss, Vincent D., 4,666,452, Cl. 8-115.520.
- O'Connor, James J.; Lang, Theodore B.; and Miller, Peggy H., 4,650,481, Cl. 604-380.000.
- Padgett, Lonnie W., 4,644,586, Cl. 383-102.000.
- Padgett, Lonnie W., Jr., and Davis, Charles L., 4,700,641, Cl. 206-499.000.
- Pierce, Allan A., 4,648,861, Cl. 493-333.000.
- Pomplun, William S.; Popp, Robert L.; Woon, Paul A.; Schroth, Carl G.; and Stevens, Robert A., 4,663,106, Cl. 264-230.000.
- Radwanski, Fred R.; Wolfson, Elizabeth A.; and Post, James L., 4,650,127, Cl. 241-28.000.
- Radwanski, Fred R.; Lau, Jark C.; and Post, James L., 4,701,294, Cl. 264-518.000.
- Rajala, Gregory J., and Shavlik, Robert J., 4,697,693, Cl. 198-699.000.
- Roessler, Thomas H., 4,649,572, Cl. 2-49.00R.
- Roland, David R.; Johnston, Jerry A.; and Pomplun, William S., 4,665,306, Cl. 219-388.000.
- Romans-Hess, Alice Y.; Guenther, Frederick M.; and Ryan, Lenore S., 4,655,759, Cl. 604-385.00R.
- Rooyakkers, John A., 4,675,012, Cl. 604-349.000.
- Sallee, Lorry F., and Popp, Robert L., 4,640,726, Cl. 156-85.000.
- Sheldon, Donald A., 4,650,459, Cl. 604-15.000.
- Sheldon, Donald A., 4,676,773, Cl. 604-16.000.
- Shipp, Peter W., Jr., and Vogt, Clifford M., 4,714,647, Cl. 428-212.000.
- Sigl, Wayne C., and Wolfson, Elizabeth A., 4,638,921, Cl. 221-1.000.
- Sneyd, James C., Jr.; Harris, Robert D.; and Latimer, Margaret G., 4,710,185, Cl. 604-372.000.
- Soerens, Dave A., 4,684,439, Cl. 162-111.000.
- Stevens, Robert A., and Wilson, John C., 4,699,621, Cl. 604-385.00A.
- Stevens, Robert A., 4,701,172, Cl. 604-385.00A.
- Suprise, Jody D., and Van Gompel, Paul T., 4,646,365, Cl. 2-49.00R.
- Taylor, Jack D., and Collier, L. Warren, IV, 4,692,368, Cl. 428-137.000.
- Terry, Byron R., 4,668,339, Cl. 162-4.000.
- Thorson, Russell E., and Marver, Douglas J., 4,680,450, Cl. 219-388.000.
- Van Gompel, Paul T., and Suprise, Jody D., 4,677,695, Cl. 2-79.000.
- Van Gompel, Paul T.; Suprise, Jody D.; and Gross, Jacqueline A., 4,706,303, Cl. 2-49.00R.
- Vogt, Clifford M.; Shipp, Peter W., Jr.; and Pendley, Cynthia C., 4,689,058, Cl. 55-279.000.
- Wahlquist, Joseph D., 4,671,943, Cl. 422-300.000.
- Wang, Kenneth Y., and Yeo, Richard S., 4,713,068, Cl. 604-366.000.
- Wang, Kenneth Y., and Yeo, Richard S., 4,713,069, Cl. 604-378.000.
- Westphal, Dean W., and Strohbeen, David T., 4,694,978, Cl. 223-28.000.
- Wideman, Ronald H., 4,696,779, Cl. 264-211.130.
- Wilson, John C.; Stevens, Robert A.; Boland, Leona G.; Rajala, Gregory J.; and Kellenberger, Stanley R., 4,701,170, Cl. 604-385.00A.
- Wilson, John C.; Stevens, Robert A.; and Kellenberger, Stanley R., 4,701,176, Cl. 604-385.00A.
- Wilson, John C.; Stevens, Robert A.; and Boland, Leona G., 4,704,114, Cl. 604-385.00A.
- Wisneski, Tony J., and Morman, Michael T., 4,663,220, Cl. 428-221.000.
- Zehner, Georgia L.; Boland, Leona G.; and Stevens, Robert A., 4,701,173, Cl. 604-385.00A.

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- Kolts, John H., and Kimble, James B., 4,658,076, Cl. 585-500.000.
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- Poyser, Thomas D.; Avery, Randall N.; Bankoske, John W.; Horst, John D.; Kimblin, Clive W.; Maxwell, Albert H.; McElroy, David W.; Peterson, Charles A.; Rostron, Joseph R.; Smith, David R.; South, William H.; and Thomas, Michael W., 4,654,806, Cl. 364-551.000.

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- Ouchi, Yutaka; Sugino, Akio; Sugaya, Kazuo; and Kimizima, Kazuo, 4,668,288, Cl. 75-93.00R.
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- Combs, Daniel J.; Martin, Sylvia; Tremmel, Robert A.; Snell, Kenneth D.; Kamitani, Masaaki; Kimizuka, Ryoichi; and Kogi, Takaaki, 4,699,696, Cl. 204-44.200.

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- Schroder, Joris; Kiml, Jiri; and Meyer, Fritz, 4,655,325, Cl. 187-127.000.

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- Brown, Mark W.; Dubke, Robert E.; and Kimmel, Milton J., 4,677,573, Cl. 364-521.000.

Kimmel, Richard D.; Knepper, Ronald W.; and Levi, Richard, to International Business Machines Corporation. Read only memory including an isolation network connected between the array of memory cells and the output sense amplifier whereby reading speed is enhanced. 4,651,302, 3-17-87, Cl. 365-104.000.

- Kimmens, Harold R.: *See—*
  - Veres, James E.; Stein, James B.; Beauchamp, Robert W.; Kimmens, Harold R.; Baird, David W.; Roman, Michael J.; Therrien, David G.; and Doyle, John J., 4,654,783, Cl. 364-200.000.
- Kimmer, Klaus: *See—*
  - Ehle, Joachim; Fuchs, Gerhard; Kimmer, Klaus; and Langfeldt, Horst-Rudiger, 4,696,013, Cl. 373-71.000.
- Kimmich, Klaus, to Alcatel N.V. Optical cable. 4,688,888, 8-25-87, Cl. 350-96.230.
- Kimmit, Richard: *See—*
  - Muller, Anton; Herdeg, Karl; Schinko, Hermann; Leyermann, Gunter; Kimmit, Richard; and Meyer, Frank, 4,671,418, Cl. 211-59.400.
- Kimmo, Kayhko; and Helenius, Kari H., to Kone Oy. Procedure for photometric measurement of liquids in reaction vessels, and reaction vessel. 4,690,900, 9-1-87, Cl. 436-47.000.
- Kimmon Electric Co., Ltd.: *See—*
  - Kamide, Noboru; Hijikata, Hiroshi; Tokudome, Katsumi; Ishikawa, Michio; and Hayashi, Yuji, 4,635,272, Cl. 372-87.000.
- Kimondo, Robertson. Twirling break-dancing toy device. 4,674,988, 6-23-87, Cl. 446-236.000.
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- Kimoto, Kiyoharu: *See—*
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- Kimoto, Kiyoshi: *See—*
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  - Takagi, Akihiro; and Kimoto, Kiyoshi, 4,691,308, Cl. 369-13.000.
- Kimoto, Toshiyuki: *See—*
  - Sugihara, Masanori; Kurosawa, Atsushi; Okamoto, Akihiko; Shimoda, Kouji; Kimoto, Toshiyuki; and Kouno, Tomomitsu, 4,695,996, Cl. 369-77.100.
- Kimoto, Yasuhito, to Sanden Corporation. Refrigerated storage cabinet. 4,668,028, 5-26-87, Cl. 312-116.000.
- Kimoto, Yasuyuki: *See—*
  - Shimohira, Shigeru; Kimoto, Yasuyuki; and Hirota, Kazuo, 4,685,622, Cl. 239-346.000.
- Kimpara, Masaomi: *See—*
  - Suzuki, Munehiro; Kimpara, Masaomi; and Tsuda, Kiyoshi, 4,657,912, Cl. 514-275.000.
- Kimpel, Rolf D., to Siemens Aktiengesellschaft. Electromechanical component with sealed housing. 4,713,727, 12-15-87, Cl. 361-334.000.
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  - Perry, Edward J.; and Coleman, Anthony R., 4,699,642, Cl. 62-541.000.
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- Kimura, Akinori: *See—*
  - Sato, Yoshimitsu; Ohtsuka, Shuichi; Kimura, Akinori; Yoda, Akira; Kato, Keishi; and Takahashi, Isoji, 4,697,912, Cl. 355-3.00R.
- Kimura, Akio: *See—*
  - Iwai, Hideo; Kondo, Fumitomo; and Kimura, Akio, 4,656,878, Cl. 74-89.150.
- Kimura, Akira: *See—*
  - Hirotsu, Tetsuji; Kiwaki, Hisakatsu; Nakamura, Kiyoshi; Narita, Hiroshi; Kasai, Syozi; Kimura, Akira; and Tsutsui, Yoshio, 4,701,682, Cl. 318-52.000.
  - Tsutsui, Yoshio; Nakamura, Kiyoshi; Kimura, Akira; Imai, Hayato; Tamura, Kaoru; and Miura, Shozuchi, 4,700,283, Cl. 363-68.000.
- Kimura, Akiyoshi: *See—*
  - Kubota, Atsushi; Tamishi, Shinnosuke; Sasaki, Shinichi; Kimura, Akiyoshi; and Koike, Michiro, 4,708,455, Cl. 355-3.00R.
- Kimura, Atsushi: *See—*
  - Hirata, Terutaka; Azegami, Tadashi; Kimura, Atsushi; and Katayama, Megumi, 4,683,754, Cl. 73-708.000.
- Kimura, Chikara: *See—*
  - Endo, Junji; Tonomura, Akira; Ozasa, Susumu; Matsuda, Tsuyos[illegible] Kimura, Chikara; and Osakabe, Nobuyuki, 4,642,461, [illegible] 250-311.000.
- Kimura, Hajime: *See—*
  - Irie, Toshio; Kyono, Kazuaki; Kimura, Hajime; and Kurokaw[illegible] Shigeo, 4,640,872, Cl. 428-659.000.
  - Umino, Shigeru; Yamato, Koji; Kimura, Hajime; and Ichida, Toshio, 4,650,724, Cl. 428-659.000.
  - Umino, Shigeru; Yamato, Koji; Kimura, Hajime; and Ichida, Toshio, 4,702,802, Cl. 204-28.000.
- Kimura, Haruo: *See—*
  - Goto, Masao; Kimura, Haruo; Okada, Toshihiko; Yuasa, Katsunori; and Ito, Tetuzo, 4,697,708, Cl. 209-534.000.
- Kimura, Hideo: *See—*
  - Ando, Takehiro; Kimura, Hideo; Oda, Noriyuki; Asai, Takeji; Mochizuki, Ken; Fujihara, Toshihisa; and Maeda, Katsuji, 4,642,127, Cl. 55-20.000.
- Kimura, Hidetoshi: *See—*
  - Matsui, Isamu; Kimura, Hidetoshi; and Nakanishi, Kazuo, 4,683,713, Cl. 57-281.000.
- Kimura, Hiroshi; and Masumoto, Tsuyoshi. Rapidly quenched alloys containing second phase particles dispersed therein. 4,704,169, 11-3-87, Cl. 148-403.000.
- Kimura, Hiroshi; and Abiko, Kenji, to Kimura, Hiroshi; Abiko, Kenji; Nihon Shinku Gijutsu Kabushiki Kaisha; and Olympus Optical Company Limited. High temperature microscope. 4,705,366, 11-10-87, Cl. 350-529.000.
- Kimura, Hiroshi: *See—*
  - Hotta, Yoshiji; Kuroda, Kunishige; Kimura, Hiroshi; Hara, Nobuhiro; and Tada, Naofumi, 4,692,560, Cl. 174-15.0CA.
  - Morimoto, Kiyoshi; Kawamoto, Masao; Kobayashi, Hiroshi; Hashizume, Masahiro; Tsudaka, Hideaki; and Kimura, Hiroshi, 4,692,019, Cl. 355-8.000.
  - Satani, Eiji; Okamoto, Nagaoki; Fritz, James G.; and Kimura, Hiroshi, 4,659,581, Cl. 426-537.000.
  - Shigemura, Yutaka; Kimura, Hiroshi; Hisajima, Masahiko; Yada, Isao; Satonaka, Shinobu; and Kaminaga, Seiji, 4,642,448, Cl. 219-216.000.
  - Shigemura, Yutaka; Kimura, Hiroshi; Hisajima, Masahiko; Yada, Isao; Satonaka, Shinobu; and Kaminaga, Seiji, 4,650,347, Cl. 374-141.000.
  - Shigemura, Yutaka; Kimura, Hiroshi; Hisajima, Masahiko; Yada, Isao; Satonaka, Shinobu; and Kaminaga, Seiji, 4,668,075, Cl. 355-14.0SH.
  - Sumida, Heiji; and Kimura, Hiroshi, 4,652,618, Cl. 525-478.000.
- Kimura, Hiroyuki: *See—*
  - Nishioka, Kimihiko; and Kimura, Hiroyuki, 4,666,246, Cl. 350-96.250.
  - Okamoto, Hiroo; Kobayashi, Masaharu; Kimura, Hiroyuki; Noguchi, Takaharu; and Arai, Takao, 4,646,301, Cl. 371-37.000.
  - Sugai, Yoshiro; and Kimura, Hiroyuki, 4,680,793, Cl. 381-13.000.
  - Sugai, Yoshiro; and Kimura, Hiroyuki, 4,703,501, Cl. 381-10.000.
- Kimura, Hisayoshi: *See—*
  - Tanioka, Norio; Kimura, Hisayoshi; and Suzuki, Isamu, 4,674,719, Cl. 248-56.000.
- Kimura, Isami: *See—*
  - Ozeki, Khoji; Sawada, Masahiro; Kimura, Isami; Kataoka, Mikio; Sato, Makoto; and Yamada, Toshihiro, 4,666,913, Cl. 514-272.000.
- Kimura, Itsuo: *See—*
  - Shibano, Tomishi; Kimura, Itsuo; and Maruchi, Sadao, 4,636,412, Cl. 428-327.000.
- Kimura, Izumi: *See—*
  - Sato, Mitsuharu; Adachi, Sakashi; Kimura, Izumi; and Sugiyama, Shigeo, 4,670,965, Cl. 29-568.000.
- Kimura, Katsuhiko: *See—*
  - Kawanabe, Tomohiko; Shima, Takanori; Asakura, Masahiko; and Kimura, Katsuhiko, 4,649,882, Cl. 123-438.000.
  - Kawanabe, Tomohiko; Asakura, Masahiko; Muroya, Minoru; Kimura, Katsuhiko; Kushida, Noritaka; and Hasebe, Hiroshi, 4,665,874, Cl. 123-440.000.
  - Kawanabe, Tomohiko; Asakura, Masahiko; Kushida, Noritaka; and Kimura, Katsuhiko, 4,715,352, Cl. 123-589.000.
- Kimura, Katsuji; Kasai, Yoshihiko; Yokoyama, Yukio; Yamasaki, Koji; and Sato, Toshifumi, to NEC Corporation. Intermediate frequency amplifier with signal strength detection circuit. 4,680,553, 7-14-87, Cl. 330-2.000.
- Kimura, Katsuji: *See—*
  - Tamura, Yoshiharu; and Kimura, Katsuji, 4,709,404, Cl. 455-126.000.
  - Yokoyama, Yukio; Kimura, Katsuji; and Goto, Naohisa, 4,641,366, Cl. 455-89.000.
- Kimura, Katsutaka; Hori, Ryoichi; Ito, Kiyoo; and Sunami, Hideo, to Hitachi, Ltd. Semiconductor memory device having a dummy cell and a memory cell which is twice the size of the dummy cell. 4,641,279, 2-3-87, Cl. 365-149.000.
- Kimura, Kazuaki: *See—*
  - Ohtomo, Fumio; Hori, Nobuo; Horikawa, Yoshio; Kimura, Kazuaki; and Sugai, Hiroo, 4,692,023, Cl. 356-5.000.
- Kimura, Kazuhiko: *See—*
  - Masuda, Kasaku; Sato, Ryosuke; Ishii, Fumio; Kimura, Kazuhiko; and Ninomiya, Hidetaka, 4,692,529, Cl. 546-141.000.
- Kimura, Kazuhiro; and Ishida, Katsuyo, to Kabushiki Kaisha Toshiba. Inference system. 4,704,695, 11-3-87, Cl. 364-513.000.
- Kimura, Kazuhiro: *See—*
  - Motegi, Tsutomu; Aoki, Kazuo; and Kimura, Kazuhiro, 4,687,793, Cl. 523-200.000.
- Kimura, Kazumasa: *See—*
  - Nakaki, Masashi; Terawaki, Katsumi; Shimomura, Tadao; and Kimura, Kazumasa, 4,656,232, Cl. 526-88.000.
- Kimura, Kazuo; and Shibuya, Taro, to Minolta Camera Kabushiki Kaisha. Albada finder optical system of inverted Galilean type. 4,650,293, 3-17-87, Cl. 350-453.000.
- Kimura, Kazuo; Tanimoto, Tetsuyuki; and Kobayashi, Hiroshi, to Minolta Camera Kabushiki Kaisha. Bi-level focusing plate of phase grating type. 4,697,878, 10-6-87, Cl. 350-162.110.
- Kimura, Kazuo; and Maruyama, Masao, to Tsubakimoto Chain Co. Tensioner for toothed drive belts. 4,708,696, 11-24-87, Cl. 474-103.000.
- Kimura, Kazuo: *See—*
  - Morioka, Koji; Tojo, Hideaki; Kimura, Kazuo; and Yoshida, Susumu, 4,664,061, Cl. 118-663.000.

Kimura, Kenji: *See*—
- Nishikawa, Masayasu; and Kimura, Kenji, 4,643,157, Cl. 123-568.000.
- Yunoki, Yutaka; Kimura, Kenji; Kato, Akira; and Imamura, Tatsuo, 4,642,711, Cl. 360-84.000.
- Yunoki, Yutaka; and Kimura, Kenji, 4,651,227, Cl. 358-310.000.

Kimura, Kikuo, to Oki Electric Industry Co., Ltd. CMOS bias voltage generating circuit. 4,638,184, 1-20-87, Cl. 307-297.000.

Kimura, Kinichi, to Yoken Co., Ltd., and Hosokawa Yoko Co., Ltd. Beverage container with tamperproof screwthread cap. 4,669,124, 5-26-87, Cl. 383-80.000.

Kimura, Kiyoshi; Okamoto, Yukio; Miwa, Tadashi; Fukuchi, Masakazu; Tarumi, Noriyoshi; and Ito, Kunio, to Konishiroku Photo Industry Co., Ltd. Recording apparatus having water vapor removing or preventing means. 4,645,327, 2-24-87, Cl. 355-3.00R.

Kimura, Kiyoshi, to Alps Electric Co., Ltd. Coordinate input device. 4,710,595, 12-1-87, Cl. 178-18.000.

Kimura, Kiyoshi; and Hara, Osamu, to Alps Electric Co., Ltd. Coordinate input device. 4,713,496, 12-15-87, Cl. 178-18.000.

Kimura, Kiyoshi: *See*—
- Kishi, Ken-ichi; Tuzita, Kenzi; Daidoji, Tuneo; Okuyama, Yuki; and Kimura, Kiyoshi, 4,675,268, Cl. 430-126.000.

Kimura, Kouichi: *See*—
- Shiba, Yoshio; Koshigaya, Akira; and Kimura, Kouichi, 4,643,630, Cl. 414-589.000.
- Yamaoka, Hiromasa; Okamoto, Tadashi; Iwasa, Yuzaburo; and Kimura, Kouichi, 4,688,193, Cl. 364-900.000.

Kimura, Kuniko; Ofuchi, Kunihiko; and Oda, Koichiro, to Mitsubishi Chemical 'ndustries Limited. Soap composition. 4,647,394, 3-3-87, Cl. 252-117.000.

Kimura, Kunio: *See*—
- Endoh, Seiji; Kimura, Kunio; Ohta, Toshihiko; and Kato, Yasuo, 4,673,724, Cl. 528-206.000.
- Yamada, Noboru; Ohno, Eiji; and Kimura, Kunio, 4,656,079, Cl. 428-209.000.

Kimura, Kunji: *See*—
- Fuji, Hiroshi; Sakamoto, Shunji; and Kimura, Kunji, 4,658,501, Cl. 29-787.000.

Kimura, Makoto: *See*—
- Motoori, Ryuzo; Kimura, Makoto; Isogai, Masaki; Sato, Akimasa; and Kawahara, Atsushi, 4,651,226, Cl. 358-293.000.
- Toyoda, Kenji; Kimura, Makoto; and Isogai, Masaki, 4,658,301, Cl. 379-100.000.

Kimura, Mareo: *See*—
- Satta, Kozo; Hasegawa, Hideo; and Kimura, Mareo, 4,655,892, Cl. 204-192.150.

Kimura, Masakatsu; and Nakamura, Osamu, to Idemitsu Petrochemical Co., Ltd. Coextrusion multi-layer tubular film. 4,643,928, 2-17-87, Cl. 428-36.000.

Kimura, Masakazu: *See*—
- Uetomi, Isamu; Kimura, Masakazu; and Ogura, Kazumasa, 4,651,057, Cl. 315-5.410.

Kimura, Masanobu: *See*—
- Saito, Akinori; Yamada, Masatoshi; Imai, Kenji; Kawamura, Kiyomi; and Kimura, Masanobu, 4,685,432, Cl. 123-276.000.

Kimura, Masatoshi; and Nakajima, Junzo, to Fujitsu Limited. Method and apparatus for forming a toner image in electrophotographic printing. 4,666,801, 5-19-87, Cl. 430-33.000.

Kimura, Misako: *See*—
- Kaneko, Masakatsu; Kimura, Misako; Murofushi, Yoshinobu; Yamazaki, Mitsuo; Iwata, Nobuyoshi; and Nakagawa, Fumio, 4,634,706, Cl. 514-262.000.

Kimura, Mitsuyoshi; Nogami, Taro; Owada, Minoru; and Koshi, Hiroyuki, to Hitachi, Ltd. Spectrophosphorimetry. 4,647,202, 3-3-87, Cl. 356-318.000.

Kimura, Mituo: *See*—
- Kuwahara, Hideyuki; Kondo, Bunji; Takada, Jun; Yanagihara, Kenji; Kimura, Mituo; and Ninomi, Masahiro, 4,701,301, Cl. 419-21.000.
- Nishikawa, Yasuo; Okita, Tsutomu; Mukaida, Yoshito; Yanagihara, Kenji; Kimura, Mituo; and Ninomi, Masahiro, 4,693,927, Cl. 428-216.000.
- Nishikawa, Yasuo; Okita, Tsutomu; Mukaida, Yoshito; Ninomi, Masahiro; Yanagihara, Kenji; and Kimura, Mituo, 4,711,809, Cl. 428-336.000.
- Nishikawa, Yasuo; Okita, Tsutomu; Mukaida, Yoshito; Ninomi, Masahiro; Yanagihara, Kenji; and Kimura, Mituo, 4,713,287, Cl. 428-336.000.
- Yanagihara, Kenji; Kimura, Mituo; and Ninomi, Masahiro, 4,636,435, Cl. 428-336.000.
- Yanagihara, Kenji; Kimura, Mituo; Ninomi, Masahiro; Nishikawa, Yasuo; and Mukaida, Yoshito, 4,693,799, Cl. 204-165.000.

Kimura, Motohiko, to Kabushiki Kaisha Toshiba. Expandable and contractable arms. 4,712,969, 12-15-87, Cl. 414-730.000.

Kimura, Muneaki; and Kai, Tadashi, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for thermal cracking of carbonaceous substances which increases gasoline fraction and light oil conversions. 4,661,237, 4-28-87, Cl. 208-423.000.

Kimura, Mutsumi: *See*—
- Komatsu, Kousuke; Miyauchi, Tsutomu; Misao, Ikuo; Kimura, Mutsumi; Fujiwara, Tadashi; Tsuchida, Yoshio; and Kuroiwa, Junko, 4,646,134, Cl. 358-11.000.

Kimura, Naofumi: *See*—
- Hamada, Hiroshi; Nakazawa, Kiyoshi; Take, Hiroshi; Kimura, Naofumi; and Funada, Fumiaki, 4,706,173, Cl. 362-341.000.
- Takeda, Makoto; Yamamoto, Kunihiko; Matsuhashi, Nobuaki; Kimura, Naofumi; Hamada, Hiroshi; and Take, Hiroshi, 4,651,148, Cl. 340-805.000.

Kimura, Naokazu: *See*—
- Ogawa, Takayuki; Ito, Hideaki; Kimura, Naokazu; Ito, Hayami; Tatsumi, Shuhei; Takao, Shoichi; Suzuki, Nitaro; Watanabe, Takashi; Shinano, Kunizo; Kuwabara, Takashi; and Aoki, Kaoru, 4,712,742, Cl. 241-20.000.

Kimura, Naomi: *See*—
- Nakamura, Toshio; Tamura, Tadashi; Kimura, Naomi; and Uratz, Susumu, 4,706,555, Cl. 99-283.000.

Kimura, Nobuhiro; Sato, Norikazu; Takagi, Yutaka; and Sugano, Tomoharu, to NEC Corporation. Inked film feeding for a thermal printer. 4,689,639, 8-25-87, Cl. 346-76.0PH.

Kimura, Sakae; and Tanaka, Yasuhiro, to Kabushiki Kaisha Matsuyama Seisakusho. Support and drive unit for mirror devices. 4,693,571, 9-15-87, Cl. 350-634.000.

Kimura, Satoshi, to Victor Company of Japan, Ltd. Flyback transformer circuit with a noise cancelling circuit. 4,689,730, 8-25-87, Cl. 363-21.000.

Kimura, Satoshi: *See*—
- Miyajima, Akira; Tsuzuki, Akira; Ohno, Hideshi; Futakami, Shigeru; Ogura, Takashi; Oguchi, Toshiaki; Yoshida, Masaru; Kimura, Satoshi; Takahashi, Kotaro; Sakamoto, Hiroya; and Nakajima, Koichi, 4,652,932, Cl. 358-236.000.
- Ohno, Hideshi; Tsuzuki, Akira; Oguchi, Toshiaki; Futami, Shigeru; Yoshida, Masaru; Kimura, Satoshi; Uematsu, Hiroyuki; Nakajima, Kouichi; Matsuyama, Katuo; Sakamoto, Hiroya; Takayama, Yasuhiko; Matsumura, Osamu; and Sakaguchi, Toshio, 4,646,158, Cl. 358-236.000.

Kimura, Seiichiro; and Aoki, Hidekazu, to Kabushiki Kaisha Toshiba. Surface heat treating apparatus. 4,692,583, 9-8-87, Cl. 219-121.00L.

Kimura, Seiichirou, to Kabushiki Kaisha Toshiba. Reflection type optical device. 4,685,780, 8-11-87, Cl. 350-613.000.

Kimura, Shigeaki: *See*—
- Oe, Tsutomu; Kimura, Shigeaki; Yuzaki, Yoshinori; and Ozaki, Tadao, 4,640,453, Cl. 228-17.700.

Kimura, Shigehiro; Ono, Takashi; and Narisawa, Nobuyuki, to Honda Giken Kogyo Kabushiki Kaisha. Control of ignition timing upon occurrence of abnormality in a reference crank angle position sensing system. 4,690,123, 9-1-87, Cl. 123-612.000.

Kimura, Shigehiro: *See*—
- Kato, Akira; Otobe, Yutaka; and Kimura, Shigehiro, 4,696,272, Cl. 123-339.000.
- Otobe, Yutaka; Suzuki, Yoshio; Kimura, Shigehiro; and Ohsawa, Naoki, 4,696,273, Cl. 123-417.000.

Kimura, Shigeki, to Mita Industrial Co., Ltd. Laser recording apparatus. 4,686,545, 8-11-87, Cl. 346-160.000.

Kimura, Shigeo, to Kabushiki Kaisha Bandai. Drive wheel equipped with power spring. 4,648,487, 3-10-87, Cl. 185-39.000.

Kimura, Shigeo; and Karata, Kouichi, to Mitsubishi Gas Chemical Company, Inc. Process for recovering waste heat from formaldehyde product gas. 4,691,060, 9-1-87, Cl. 568-420.000.

Kimura, Shigeo: *See*—
- Uno, Kunihiko; Nakazato, Kunihiro; Nishigaki, Masahide; Hirotomi, Hajime; Kimura, Shigeo; Kurihara, Sadao; Tanaka, Hideo; Mihara, Jiro; and Takai, Kiyoaki, 4,639,927, Cl. 373-84.000.

Kimura, Shigeru: *See*—
- Yoshinaka, Toshio; Taniguchi, Toshikatsu; Ida, Shuichiro; Nagano, Shuji; Kimura, Shigeru; and Tanaka, Yasuo, 4,711,136, Cl. 74-665.0GA.

Kimura, Shigeyuki: *See*—
- Tsunoyama, Kouzou; Tanimoto, Wataru; Ohashi, Yoshiharu; Kimura, Shigeyuki; and Asakawa, Fumio, 4,652,128, Cl. 356-318.000.

Kimura, Shin; Fukui, Hiroshi; Amano, Hisao; Yatsuo, Tsutomu; Oikawa, Saburo; and Nagano, Takahiro, to Hitachi, Ltd. Semiconductor device with floating remote gate turn-off means. 4,646,122, 2-24-87, Cl. 357-38.000.

Kimura, Shin: *See*—
- Yatsuo, Tsutomu; Nagano, Takahiro; Oikawa, Saburo; Sato, Yukimasa; Kimura, Shin; and Fukui, Hiroshi, 4,651,189, Cl. 357-38.000.

Kimura, Shin-Ichiro; Murakami, Eiichi; Warabisako, Terunori; Miyake, Kiyoshi; and Sunami, Hideo, to Hitachi, Ltd. Plasma treatment system. 4,683,838, 8-4-87, Cl. 118-715.000.

Kimura, Shinichi, to Canon Kabushiki Kaisha. Apparatus for displaying the layout of text. 4,706,078, 11-10-87, Cl. 340-735.000.

Kimura, Shinichi, to Sharp Kabushiki Kaisha. Electric heating appliance detachably mounted in a motor vehicle. 4,713,522, 12-15-87, Cl. 219-202.000.

Kimura, Shinichi: *See*—
- Shimozato, Yasuyuki; Tsuchikawa, Syuji; Kimura, Shinichi; and Noro, Masahiko, 4,659,790, Cl. 526-87.000.

Kimura, Shinichiro: *See*—
- Sunami, Hideo; Ohkura, Makoto; and Kimura, Shinichiro, 4,670,768, Cl. 357-42.000.

Kimura, Shiro G., to General Electric Company. Method for scrubbing sulfur oxides and nitrogen oxides in a flue gas duct. 4,645,652, 2-24-87, Cl. 423-235.000.

Kimura, Shiro G., to General Electric Company. Method for dry flue gas desulfurization incorporating nitrogen oxides removal. 4,645,653, 2-24-87, Cl. 423-235.000.

Kimura, Shoichi, to Nohmi Bosai Kogyo Co., Ltd. Alarm and control system for semiconductor factories or the like. 4,651,141, 3-17-87, Cl. 340-634.000.

Kimura, Shoichi, to Nohmi Bosai Kogyo Co., Ltd. Gas and fire alarm and control system for semiconductor factories or the like. 4,683,463, 7-28-87, Cl. 340-629.000.

Kimura, Shuichi, to Sony Corporation. Disk recording and/or reproducing apparatus with compensation for extraneous force during track jump. 4,698,796, 10-6-87, Cl. 369-44.000.

Kimura, Sosaku; Hatsuse, Toshikazu; Shimizu, Masami; Miyashita, Masakazu; Yoshioka, Junichi; Kanai, Akira; and Koizumi, Koichi, to Citizen Watch Co., Ltd. Rotary table unit. 4,656,951, 4-14-87, Cl. 108-20.000.

Kimura, Sosaku, to Citizen Watch Co., Ltd. Rotary grinding machine. 4,667,445, 5-26-87, Cl. 51-131.100.

Kimura, Suzushi; and Yamaguchi, Hiroshi, to Matsushita Electric Industrial Co., Ltd. Angular velocity sensor. 4,671,112, 6-9-87, Cl. 73-505.000.

Kimura, Syuzaburo, to Ikeda Bussan Co., Ltd. Car seat. 4,648,656, 3-10-87, Cl. 297-337.000.

Kimura, Tadashi, to Olympus Optical Co., Ltd. Afocal zoom lens system. 4,666,258, 5-19-87, Cl. 350-427.000.

Kimura, Tadashi; Sugihara, Masahiro; and Inaba, Tsutomu, to Mitsubishi Denki Kabushiki Kaisha. Scroll-type fluid transferring machine with intake port and second intake passage. 4,696,628, 9-29-87, Cl. 418-15.000.

Kimura, Tadashi: *See*—
- Iba, Yoichi; Kimura, Tadashi; and Kajitani, Kazuo, 4,640,586, Cl. 350-414.000.
- Inaba, Tsutomu; Sugihara, Masahiro; Nakamura, Toshiyuki; Oide, Masahiko; Kimura, Tadashi; and Kobayashi, Norihide, 4,702,681, Cl. 418-55.000.
- Inaba, Tsutomu; Sugihara, Masahiro; Nakamura, Toshiyuki; Oide, Masahiko; Kimura, Tadashi; and Kobayashi, Norihide, 4,702,682, Cl. 418-55.000.
- Inaba, Tsutomu; Sugihara, Masahiro; Nakamura, Toshiyuki; Oide, Masahiko; Kimura, Tadashi; and Kobayashi, Norihide, 4,702,683, Cl. 418-55.000.
- Inaba, Tsutomu; Kimura, Tadashi; Kobayashi, Norihide; Sugihara, Masahiro; and Matsugi, Tetsuzo, 4,715,796, Cl. 418-55.000.
- Nakamura, Toshiyuki; Sugihara, Masahiro; Inaba, Tsutomi; Oide, Masahiko; Kimura, Tadashi; and Kobayashi, Norihide, 4,655,697, Cl. 418-55.000.

Kimura, Takao; Inagaki, Nobuo; Yoshihara, Mitsuo; and Kato, Fumihiko, to Nippon Telegraph & Telephone Public Corporation; and Nitto Electric Industrial Co., Ltd. Optical fibers coated with modified 1,4-polybutadienes. 4,639,080, 1-27-87, Cl. 350-96.340.

Kimura, Takashi, to Canon Kabushiki Kaisha. System for moving a pinch roller in a recording and/or reproducing apparatus. 4,658,310, 4-14-87, Cl. 360-95.000.

Kimura, Takashi: *See*—
- Domoto, Hideki; and Kimura, Takashi, 4,671,176, Cl. 101-177.000.
- Kobayashi, Junji; and Kimura, Takashi, 4,639,797, Cl. 360-71.000.
- Yamada, Tsuneo; Sakashita, Tsutomu; Tomono, Hiroshi; Kimura, Takashi; Maehara, Yasuhiro; and Yasumoto, Kunio, 4,709,572, Cl. 72-366.000.

Kimura, Takayoshi; and Tsuyuguchi, Seiichi, to Sumitomo Metal Mining Company Limited. Method of lancing for a copper-producing converter. 4,661,152, 4-28-87, Cl. 75-76.000.

Kimura, Takayoshi; Tsuyuguchi, Seiichi; and Mori, Yoshiaki, to Sumitomo Metal Mining Company Limited. Method of treating silicate ore containing gold and silver. 4,695,317, 9-22-87, Cl. 75-24.000.

Kimura, Takayoshi; Tsuyuguchi, Seiichi; and Mori, Yoshiaka, to Sumitomo Metal Mining Company Limited. Method of treating the slag from a copper converter. 4,707,185, 11-17-87, Cl. 75-24.000.

Kimura, Takeshi: *See*—
- Enzaki, Yoshiki; Kitahara, Kazuki; Terasaka, Satoru; Mori, Kenji; and Kimura, Takeshi, 4,695,247, Cl. 431-352.000.
- Soda, Yasunari; Mochiji, Kozo; Kimura, Takeshi; and Obayashyi, Hidehito, 4,701,940, Cl. 378-34.000.

Kimura, Tetsuo; Tanaka, Seiichi; and Suzuki, Takashi, to Nittan Company, Limited. Photoelectric smoke sensor terminal. 4,636,649, 1-13-87, Cl. 250-574.000.

Kimura, Tetsuo; Tanaka, Seiichi; and Suzuki, Takashi, to Nittan Company, Ltd. Environmental abnormality detecting apparatus. 4,638,304, 1-20-87, Cl. 340-500.000.

Kimura, Tetsuo; Tanaka, Seiichi; and Suzuki, Takashi, to Nittan Company, Limited. Surveillance control apparatus for security system. 4,658,243, 4-14-87, Cl. 340-505.000.

Kimura, Tetsuo; and Tanaka, Seiichi, to Nittan Company, Limited. Apparatus for monitoring disturbances in environmental conditions. 4,668,939, 5-26-87, Cl. 340-521.000.

Kimura, Tetsuo, to Canon Kabushiki Kaisha. Recorder with improved paper feeding including multiple feed paths for selective feeding of webs and cut sheets. 4,674,899, 6-23-87, Cl. 400-605.000.

Kimura, Tetsuo, to Nittan Company, Limited. Fire alarm system. 4,697,172, 9-29-87, Cl. 340-587.000.

Kimura, Tetsuo, to Nittan Company, Limited. Separation type detector with addressed selection. 4,701,625, 10-20-87, Cl. 250-573.000.

Kimura, Tetsuo: *See*—
- Kashimura, Makoto; and Kimura, Tetsuo, 4,699,366, Cl. 271-4.000.

Kimura, Tomoaki: *See*—
- Kajiwara, Toshiyuki; Kimura, Tomoaki; and Nihei, Mitsuo, 4,706,871, Cl. 228-158.000.
- Kikuma, Toshio; Matsumoto, Hiromi; Tagawa, Masayoshi; Kajiwara, Toshiyuki; Kimura, Tomoaki; Iida, Yoshihiko; and Yoshimoto, Kenichi, 4,700,312, Cl. 364-472.000.
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- Nihei, Mitsuo; and Kimura, Tomoaki, 4,651,550, Cl. 72-183.000.
- Nishimura, Kazuyoshi; Tabushi, Kenji; Nishino, Tadashi; and Kimura, Tomoaki, 4,655,166, Cl. 118-673.000.
- Yoshida, Takashi; Kimura, Tomoaki; Nishino, Tadashi; and Saito, Sadayuki, 4,679,611, Cl. 164-431.000.

Kimura, Tomohiro: *See*—
- Ito, Hiroshi; and Kimura, Tomohiro, 4,658,756, Cl. 118-652.000.

Kimura, Toshihiko: *See*—
- Kaneko, Yutaka; Kimura, Toshihiko; and Kadokura, Kenji, 4,639,415, Cl. 430-558.000.
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- Masuhara, Hiromu; and Kimura, Tsunekazu, 4,716,566, Cl. 371-37.000.

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- Tamura, Kaoru; Takano, Masao; and Kimura, Tsutomu, 4,687,932, Cl. 250-327.200.

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- Matsunaga, Fujihisa; Kato, Eiji; Kimura, Tsuyoshi; and Isota, Yoichiro, 4,675,444, Cl. 564-403.000.

Kimura, Yoshiaki: *See*—
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- Kinanen, Ilmari; and Ranne, Sulo, to Orion-yhtyma Oy. Planetary transmission based on friction. 4,691,595, 9-8-87, Cl. 74-798.000.
- Kinas, Ryszard: *See—*
  - Stec, Wojciech; Kinas, Ryszard; and Misiura, Konrad, 4,684,742, Cl. 558-81.000.
- Kinashi, Hiroshi: *See—*
  - Tsujimoto, Yoshiharu; Kinashi, Hiroshi; Yui, Yuhi; Akiyama, Tadashi; and Irihara, Koichi, 4,654,286, Cl. 430-97.000.
- Kinashi, Shoji: *See—*
  - Murakami, Saburo; Kinashi, Shoji; and Ego, Toyokazu, 4,710,333, Cl. 264-73.000.
- Kinba, Toshifumi: *See—*
  - Suzuki, Shinichi; Hara, Masato; Tsuda, Koji; Takasugi, Eiji; Kinba, Toshifumi; and Kaneko, Atsumi, 4,702,008, Cl. 33-1.00T.
- Kinberg, Benjamin, to Empire of Carolina, Inc. Bubble apparatus for wheeled toy. 4,700,965, 10-20-87, Cl. 280-289.00D.
- Kincaid, Charles B.: *See—*
  - Caputi, Roger W.; Pierick, Edward G.; Brumley, Dennis V.; and Kincaid, Charles B., 4,664,754, Cl. 203-39.000.
- Kincaid, Donald M. Motorcycle passenger arm rest. 4,695,096, 9-22-87, Cl. 297-417.000.
- Kincaid, John W., Jr.: *See—*
  - Biegon, Robert J.; Kincaid, John W., Jr.; and Visser, Leonard J., 4,647,844, Cl. 324-57.00R.
- Kincheloe, Dan. Motorcycle safety apparel. 4,685,151, 8-11-87, Cl. 2-2.000.
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  - Hafner, Udo; Hans, Waldemar; Kind, Wilhelm; Krauss, Rudolf; and Sauer, Rudolf, 4,678,124, Cl. 239-585.000.
  - Hans, Waldemar; Kind, Wilhelm; Knapp, Heinrich; Kramer, Wolfgang; and Sauer, Rudolf, 4,700,891, Cl. 239-132.500.
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- Kinderov, Petr A.; Volkov, Nikolai S.; Vasilieva, Natalia V.; and Malashkina, Regina T., to Nauchno-Issledovatelsky Institut Kabelnoi Promyshlennosti Po "Sredazkabel". Current-conducting composition. 4,702,860, 10-27-87, Cl. 252-511.000.
- Kindersely, Peter G. Single seat ball valve with bar spring biasing members. 4,688,756, 8-25-87, Cl. 251-183.000.
- Kindig, Alan L.; and Tew, Ho H., to General Electric Company. Connection insulator and stator assembly. 4,698,533, 10-6-87, Cl. 310-71.000.
- Kindig, James K.; and Reynolds, James E., to Integrated Carbons Corporation. Integrated coal cleaning process with mixed acid regeneration. 4,695,290, 9-22-87, Cl. 44-1.0SR.
- Kindlmann, Peter J.; and Lewis, Brian G., to Olin Corporation. Control system for electromagnetic casting of metals. 4,682,645, 7-28-87, Cl. 164-453.000.
- Kindness, William, to Kafko Manufacturing Limited. Pool liner retainer with closure clip. 4,713,849, 12-22-87, Cl. 4-496.000.
- Kindsvater, Hans: *See—*
  - Omet, Reinhard; Kindsvater, Hans; and Wall, Hans J., 4,695,796, Cl. 324-226.000.
- Kindt-Larsen, Ture: *See—*
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- Kindylides, Stavros, to G. R. Block Research and Development Corporation. Structural blocks and structural system utilizing same. 4,633,630, 1-6-87, Cl. 52-204.000.
- Kinetic Concepts, Inc.: *See—*
  - Vrzalik, John H., 4,638,516, Cl. 5-64.000.
- Kinetic Systems Corporation: *See—*
  - Hayes, Michael L.; Mahr, Paul S.; and Tippie, John W., 4,713,770, Cl. 364-474.000.
- Kinetico, Inc.: *See—*
  - Brown, Keith E., 4,693,814, Cl. 210-88.000.
  - Ellis, George S., 4,698,164, Cl. 210-739.000.
  - Ellis, George S., III, 4,650,586, Cl. 210-636.000.
- Kinetics Technology International Corporation: *See—*
  - Minet, Ronald G.; and Warren, David, 4,692,306, Cl. 422-49.000.
  - Spangler, Harvey D.; and Lamb, Kenneth V., 4,681,603, Cl. 55-27.000.
- Kinetron B. V.: *See—*
  - Knapen, Petrus M. J., 4,644,246, Cl. 320-21.000.
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- King, Alan G., to Imperial Chemical Industries PLC. Controlled inductive coupling device. 4,685,395, 8-11-87, Cl. 102-202.200.
- King, Alan G.: *See—*
  - Birse, Alan D.; and King, Alan G., 4,685,396, Cl. 102-206.000.
- King, Arthur S. Reciprocating electrode cleaner for electric field liquid treater. 4,668,369, 5-26-87, Cl. 204-227.000.
- King, Arthur S. Apparatus for increasing the residence time of waste liquids in an electric treater. 4,692,232, 9-8-87, Cl. 204-278.000.
- King, Bonnie J., to Shell Oil Company. Apparatus for catalyst preparation by reactive sublimation. 4,678,769, 7-7-87, Cl. 502-231.000.
- King Bros. Industries: *See—*
  - Hall, Rowland G., 4,665,937, Cl. 137-15.000.
- King, C. Judson; and Sanchez, Paul A., to University of California, The Regents of the. Process for sorption solute recovery. 4,670,155, 6-2-87, Cl. 210-689.000.
- King, Charles L.; Mussro, Nicholas J., Jr.; and Roberts, Dennis W., to Akzona Incorporated. Fiber batts and the method of making. 4,666,763, 5-19-87, Cl. 428-221.000.
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- King, Daniel: *See—*
  - Kellis, Warren D.; King, Daniel; and Rice, Lyle, 4,669,238, Cl. 52-105.000.
- King, Dennis D., to E-Systems, Inc. Off-channel frequency discriminator circuit for use in a precision distance measuring equipment (DME/P) receiver. 4,646,097, 2-24-87, Cl. 342-95.000.
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- King, Donald J.; and Lederman, Frederick E., to General Motors Corporation. Overrunning clutch cage with simplified manufacture. 4,679,676, 7-14-87, Cl. 192-45.000.
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  - Lederman, Frederick E.; and King, Donald J., 4,712,661, Cl. 192-45.000.
- King, Duane E.: *See—*
  - Otstot, Roger S.; and King, Duane E., 4,686,039, Cl. 210-321.100.
- King, Eddie W.: *See—*
  - Brandes, John H.; King, Eddie W.; and Summerville, Don S., 4,682,709, Cl. 221-2.000.
- King, Ethmer W.; Kircher, Robert C., Jr.; and Yotsuuye, David S., to Boeing Company, The. Aircraft navigational systems and methods for creating navigational guidepoints. 4,692,869, 9-8-87, Cl. 364-448.000.
- King, Feather W.; and King, John R. Infant pacifier stabilizing device. 4,697,589, 10-6-87, Cl. 128-359.000.
- King, Francis D., to Beecham Group p.l.c. Azabicyclo compounds, useful as intermediates. 4,697,019, 9-29-87, Cl. 546-112.000.
- King, Francis D.: *See—*
  - Hadley, Michael S.; and King, Francis D., 4,705,858, Cl. 546-112.000.
- King, Gail G.; Chen, Jiann-Yuh; and Keys, Barbara J., to Frito-Lay, Inc. Thermostable edible creme. 4,707,374, 11-17-87, Cl. 426-572.000.
- King, Gary: *See—*
  - Jirkovsky, Ivo; King, Gary; Baudy, Reinhardt; and DeNoble, Victor, 4,665,183, Cl. 546-94.000.
- King, Gary A., to American Home Products Corporation. Vinpocetine for pulmonary hemorrhage and edema. 4,686,225, 8-11-87, Cl. 514-283.000.
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- King, George A.: *See—*
  - Iacobucci, Guillermo A.; King, George A.; Goldstein, Jacob H.; and Benemann, John R., 4,638,005, Cl. 544-336.000.
- King, Gerald E.: *See—*
  - Rule, Robert D.; Skaggs, Bruce A.; and King, Gerald E., 4,637,504, Cl. 192-87.170.
- King, Glenn G.; and Molloy, Francis X., to Kennecott Corporation. Work conveyor sprocket and link assembly. 4,645,476, 2-24-87, Cl. 474-153.000.
- King, Graham: *See—*
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- King, Halm C., Jr.; and King, Nancy. Utility insulated cross-arm. 4,682,747, 7-28-87, Cl. 248-68.100.
- King Industrial Products Co., Inc.: *See—*
  - King, Joseph S.; and Rayl, Clair D., 4,646,550, Cl. 72-301.000.
- King Instrument Corporation: *See—*
  - Woodley, George M., 4,635,869, Cl. 242-67.10R.
  - Woodley, George M.; and Wilson, Albert H., 4,645,136, Cl. 242-68.300.

Woodley, George M.; and Bakes, William S., 4,682,742, Cl. 242-56.00R.

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King, James P.; and Lindahl, Charles B., to Penawalt Corporation. Antimony thioantimonate and intermediate preparation for lubricant additive. 4,675,168, 6-23-87, Cl. 423-561.00R.

King Jim Co., Ltd.: *See—*

Ohminato, Kiyoshi, 4,693,625, Cl. 402-27.000.

King, John J.: *See—*

Chaudhari, Mohammad A.; and King, John J., 4,689,378, Cl. 526-259.000.

King, John L., Jr.: *See—*

Rugh, Clyde J.; King, John L., Jr.; Tuttle, Francis M.; and Jones, William E., 4,660,404, Cl. 72-446.000.

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King, Keith: *See—*

Holmes, Robert T.; Evans, Terence M.; King, Keith; and Graiff, Leonard B., 4,678,479, Cl. 44-57.000.

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Plovanich, Charles J.; Ossont, Guy H.; King, Keith C.; Irwin, Robert H.; and Knoop, Walter V., 4,683,314, Cl. 100-37.000.

King, Ken R.; and Hernandez, Celimo P., to Harris Corporation. Front end of an operational amplifier. 4,636,744, 1-13-87, Cl. 330-295.000.

King, Lance M., to V. E. Kuster Company, Inc. Downhole clock spring. 4,664,531, 5-12-87, Cl. 368-140.000.

King, Lisa: *See—*

Wilson, Stephen T.; and King, Lisa, 4,663,139, Cl. 423-305.000.

King, Lloyd H., Sr. Inline dispersal valve. 4,662,387, 5-5-87, Cl. 137-268.000.

King, Lloyd H., Sr. Solvent cement. 4,687,798, 8-18-87, Cl. 524-100.000.

King, Lloyd H., Sr. Dispersal member. 4,702,270, 10-27-87, Cl. 137-268.000.

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Kende, Andrew S.; Curran, Dennis P.; King, Margaret L.; and Feldstein, Neil A., 4,667,043, Cl. 547-445.000.

King, Martin J.: *See—*

Troutner, Vernon H.; and King, Martin J., 4,692,138, Cl. 604-4.000.

Troutner, Vernon H.; and King, Martin J., 4,708,715, Cl. 604-6.000.

King, Michael H.: *See—*

Smith, Donald R., 4,638,821, Cl. 132-7.000.

King, Michael J.: *See—*

Weder, Donald E.; Weder, Erin H.; Ruth, Howard M.; King, Michael J.; Craig, Franklin J.; Jones, Larry J.; Badgley, Kenton D.; Snider, Harry J., deceased; Snider, Laura, legal representative; Dye, S. Owen; Wiedner, Clay R.; Weder, Bill C.; and Langenberg, Robert L., 4,646,388, Cl. 19-80.00R.

King, Michael M.; and Walter, Helen J., to Boeing Company, The. Multi-layer circuit board bonding method utilizing noble metal coated surfaces. 4,685,210, 8-11-87, Cl. 29-830.000.

King, Michael O.; and Keshner, Marvin S., to Hewlett-Packard Company. Package for water-scale semiconductor devices. 4,715,115, 12-29-87, Cl. 29-841.000.

King, Monroe L.: *See—*

Dykstra, Jerald P.; Ray, Andrew M.; and King, Monroe L., 4,700,077, Cl. 250-492.200.

King, Nancy: *See—*

King, Halm C., Jr.; and King, Nancy, 4,682,747, Cl. 248-68.100.

King, Nigel J. R.; Pawson, Ian W. N.; Baker, Michael P.; Shaddock, Robert N.; and Stansfield, Edward V., to Racal Communications Equipment Limited. Direction finding. 4,639,733, 1-27-87, Cl. 342-424.000.

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King, Norman R., to North American Philips Corporation. High pressure discharge lamp mounting structure. 4,689,518, 8-25-87, Cl. 313-1.000.

King, Norman R.: *See—*

Carleton, Samuel A.; and King, Norman R., 4,712,040, Cl. 313-331.000.

Dunn, John P.; Collins, Kent L.; and King, Norman R., 4,708,679, Cl. 445-26.000.

King, Patrick D., to Flo-Con Systems, Inc. Heat shield for sliding gate valve. 4,667,937, 5-26-87, Cl. 266-236.000.

King, Patrick D., to Flo-Con Systems, Inc. Rocker arm/spring assembly. 4,667,938, 5-26-87, Cl. 266-271.000.

King, Patrick D., to Flo-Con Systems, Inc. Composite break ring for continuous casting. 4,693,296, 9-15-87, Cl. 164-440.000.

King, Patrick D., to Flo-Con Systems, Inc. Composite break ring method. 4,715,423, 12-29-87, Cl. 164-98.000.

King, Patrick F., to Polaroid Corporation. Method for converting ether groups to hydroxyl groups and ester groups to acid groups. 4,652,635, 3-24-87, Cl. 534-651.000.

King, Patrick F.: *See—*

Chinoporos, Efthimios; Idelson, Elbert M.; and King, Patrick F., 4,656,117, Cl. 430-225.000.

King, Paul A., Jr., to Prime Computer, Inc. Receive message processor for a solicited message packet transfer system. 4,704,717, 11-3-87, Cl. 370-94.000.

King, Paul G.: *See—*

Jenkins, Dale C., Jr.; and King, Paul G., 4,675,659, Cl. 340-573.000.

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King, Robert F., 4,691,501, Cl. 53-485.000.

King, Raymond A.; Larson, Jeffrey G.; and Walton, Lewis A., to Babcock & Wilcox Company, The. Spacer grid insert. 4,678,630, 7-7-87, Cl. 376-438.000.

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King, Robert E.: *See—*

Quintana, Max A., 4,667,087, Cl. 235-380.000.

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King, Roger L.: *See—*

Finfinger, Gerald L.; King, Roger L.; and Marshall, Thomas E., 4,679,435, Cl. 73-594.000.

King, Ronald J.: *See—*

Mergenthaler, Barry M.; King, Ronald J.; Kovats, Laszlo L., deceased; Taylor, James H., administrator; and Cone, Richard E., 4,656,344, Cl. 235-462.000.

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Nelson, Kenneth L., 4,682,475, Cl. 62-354.000.

Tarozzi, Richard A.; and Formhals, Charles, 4,648,512, Cl. 206-542.000.

Tarozzi, Richard A.; and Formhals, Charles, 4,667,484, Cl. 62-371.000.

Tarozzi, Richard A., 4,667,583, Cl. 99-279.000.

Tarozzi, Richard A., 4,694,738, Cl. 99-279.000.

King, Shannon C. Training harness for cats. 4,655,172, 4-7-87, Cl. 119-96.000.

King-Smith, Eric A.; ReMine, Walter J.; and Dufresne, Joel R., to Minnesota Mining and Manufacturing Company. Output limited electrical stimulator for biological tissue. 4,690,145, 9-1-87, Cl. 128-421.000.

King-Smith, Eric A.: *See—*

Dufresne, Joel R.; ReMine, Walter J.; and King-Smith, Eric A., 4,688,574, Cl. 128-421.000.

King, Steven M., to Barry Wright Corporation. Force and torque sensor. 4,706,505, 11-17-87, Cl. 73-862.040.

King, Steven P.: *See—*

Elliott, John D.; and King, Steven P., 4,634,500, Cl. 201-39.000.

King Taudevin & Gregson (Holdings) Limited: *See—*

Roberts, David; and Johnson, Henry S., 4,678,493, Cl. 65-134.000.

King, Theodas C. Blueprint copy collating apparatus. 4,700,940, 10-20-87, Cl. 270-58.000.

King, Thomas: *See—*

Kendall, Burton; and King, Thomas, 4,675,803, Cl. 364-131.000.

King, Thomas M.; and Daniel, Sam M., to United States of America, Air Force. Programmable realtime interface between a Block Floating Point processor and memory. 4,660,143, 4-21-87, Cl. 364-200.000.

King, Timothy W. Asphalt handling apparatus. 4,695,186, 9-22-87, Cl. 404-111.000.

King, Wayne E., to United States of America, Energy. Analysis with electron microscope of multielement samples using pure element standards. 4,697,080, 9-29-87, Cl. 250-307.000.

King, Wilhelm: *See—*

Bucher, Anton; Simon, Peter; and King, Wilhelm, 4,668,118, Cl. 403-272.000.

King, William A.: *See—*

May, William E.; McColloch, Rex, Jr.; and King, William A., 4,680,672, Cl. 361-353.000.

King, William E.: *See—*

Tolino, Ralph W.; King, William E.; Blickenderfer, Jack L.; and Roth, Charles H., Jr., 4,696,784, Cl. 376-245.000.

King, William F., to Chevron Research Company. Pesticidal tin salts of hydroxamic acids. 4,665,093, 5-12-87, Cl. 514-493.000.

King, William F., to Chevron Research Company. Fungicidal benzylthiostannanes. 4,678,804, 7-7-87, Cl. 514-493.000.

King, William H., to Bourns, Inc. Multi-wire contact assembly. 4,679,886, 7-14-87, Cl. 439-816.000.

King, William J., Jr.: *See—*

Ainslie, Norman G.; Harvilchuck, Joseph M.; Interrante, Mario J.; King, William J., Jr.; Palmateer, Paul H.; and Sullivan, John F., 4,634,638, Cl. 428-671.000.

King, William L.; and Weisbart, Charles K., to Samsonite Corporation. Garment bag with improved packing capability. 4,662,513, 5-5-87, Cl. 206-287.100.

King, William L., to Samsonite Corporation. Door hook retainer loop patch. 4,685,560, 8-11-87, Cl. 206-287.100.

King, William L.; and Weisbart, Charles K., to Samsonite Corporation. Combination garment bag and packing case luggage article. 4,693,368, 9-15-87, Cl. 206-287.100.

King, William L., Jr.: *See—*

Paske, Richard, Jr.; Pallmer, Michael; and King, William L., Jr., 4,707,297, Cl. 252-301.160.

King, William R.; and Hart, C. Jack, to Phillips Petroleum Company. Apparatus and process for carbon black production. 4,643,880, 2-17-87, Cl. 422-156.000.

King, William R.: *See—*

Wiggins, Robert; King, William R.; Barker, Jeffrey G.; and LeGrys, Geoffrey A., 4,674,689, Cl. 241-6.000.

King, William W.; Handsel, Arthur M.; and Nguyen, David M., to Hughes Tool Company-USA. Matrix bit with extended blades. 4,667,756, 5-26-87, Cl. 175-409.000.

King, William W.; and Houle, Edmund C., Jr., to Hughes Tool Company - USA. Drilling bit with full release void areas. 4,696,354, 9-29-87, Cl. 175-329.000.

King, William W., to Hughes Tool Company. Diamond drill bit with co-joined cutters. 4,714,120, 12-22-87, Cl. 175-329.000.

Kinghorn, John R.; and Bugg, Richard E. F., to U.S. Philips Corporation. Television receiver arrangements. 4,698,677, 10-6-87, Cl. 358-147.000.

Kinglor-Ltd.: *See—*

Cavigli, Mario; and Ferrari, Lorenzo, 4,692,929, Cl. 373-89.000.

Ferrari, Lorenzo, 4,711,663, Cl. 75-53.000.

King's College London: *See—*

Bennetto, Hugh P.; Delaney, Gerard M.; Mason, Jeremy R.; Stirling, John L.; Roller, Sibel; Thurston, Christopher F.; and White, Donald R., Jr., 4,652,501, Cl. 429-2.000.

Kings Electronics Co., Inc.: *See—*

Lombardi, Anthony, 4,652,074, Cl. 339-177.00R.

Kingsbury, Allin D.: *See—*

Lavelle, Michael G.; Goldsmith, Claude A.; and Kingsbury, Allin D., 4,642,794, Cl. 364-900.000.

Kingsbury, Fred D., Jr.: *See—*

Ferrari, Harry M.; Boyle, Raymond F.; and Kingsbury, Fred D., Jr., 4,664,881, Cl. 376-410.000.

Kingsford, Ted L., to Plough, Inc. Retractable mascara applicator. 4,687,364, 8-18-87, Cl. 401-127.000.

Kingsland, David O.; Schwartz, Edward A.; and Mestnik, Joseph G., to Xerox Corporation. Flexible document platen. 4,666,293, 5-19-87, Cl. 355-75.000.

Kingsland, David O.: *See—*

Yarbrough, Joseph A.; Kingsland, David O.; and Pease, Donald L., 4,693,588, Cl. 355-3.00R.

Kingsley Mfg. Co.: *See—*

Truesdell, James D., 4,652,266, Cl. 623-55.000.

Kingsley, Richard J., to Saturn Corporation. Exterior extension for a truck cab. 4,688,845, 8-25-87, Cl. 296-99.00R.

Kingston, Arthur G.; and DeLong, Carl R. Adjustable template for positioning tile of various sizes. 4,712,309, 12-15-87, Cl. 33-527.000.

Kingston, Robert H.; and Leonberger, Frederick J., to Massachusetts Institute of Technology. Spatial light modulator. 4,696,533, 9-29-87, Cl. 350-96.140.

Kingston-Warren Corporation, The: *See—*

Azzi, Victor D., 4,708,252, Cl. 211-192.000.

Kington, Alan D.: *See—*

Mills, David; Lindahl, Anthony T.; and Kington, Alan D., 4,637,449, Cl. 164-132.000.

Kiniwa, Hideaki, to Research Development Corp. of Japan. Adsorbent. 4,694,044, 9-15-87, Cl. 525-178.000.

Kinjo, Hisao, to Victor Company of Japan, Ltd. Information storage disc assembly. 4,661,875, 4-28-87, Cl. 360-133.000.

Kinjo, Hisao, to Victor Company of Japan. Recording medium for recording and/or reproducing apparatus. 4,694,365, 9-15-87, Cl. 360-100.000.

Kinjo, Hisao: *See—*

Segawa, Keiji; Imaoka, Hirofumi; Kinjo, Hisao; and Sakurai, Toshiya, 4,675,765, Cl. 360-122.000.

Kinjo, Noriyuki: *See—*

Nagae, Yoshiharu; Numata, Shunichi; Kinjo, Noriyuki; and Funahata, Katuyuki, 4,641,924, Cl. 350-339.00R.

Numata, Shun-ichi; Fujisaki, Koji; Kinjo, Noriyuki; Imaizumi, Junichi; and Mikami, Yoshikatsu, 4,690,999, Cl. 528-188.000.

Sugawara, Tooru; Tsuchitani, Shigeki; Kinjo, Noriyuki; and Ohara, Shuichi, 4,642,601, Cl. 338-35.000.

Kinkead, Clifford W.; and Kinkead, David W., to Aqua Systems, Inc. Method and apparatus for automatically maintaining a predetermined desired level of water in a swimming pool, and the like. 4,686,718, 8-18-87, Cl. 4-508.000.

Kinkead, David W.: *See—*

Kinkead, Clifford W.; and Kinkead, David W., 4,686,718, Cl. 4-508.000.

Kinkel, Horst. Method for erecting a bridge superstructure of prestressed concrete and launching girder for performing the same. 4,660,243, 4-28-87, Cl. 14-17.000.

Kinkel, Horst. Method for erecting a bridge superstructure of prestressed concrete and launching girder for performing the same. 4,692,955, 9-15-87, Cl. 14-17.000.

Kinki Denki Co., Ltd.: *See—*

Tomita, Masao, 4,640,794, Cl. 252-194.000.

Kinki Insatsu Kabushiki Kaisha: *See—*

Shimada, Katsuyuki, 4,709,811, Cl. 206-254.000.

Kinn, Donna A.: *See—*

Kinn, John J.; and Kinn, Donna A., 4,715,564, Cl. 244-153.00R.

Kinn, John J.; and Kinn, Donna A. Chemiluminescent kite. 4,715,564, 12-29-87, Cl. 244-153.00R.

Kinnan, Frank R., to Electric Power Research Institute, Inc. Apparatus for and method of installing underground cable having above ground terminals. 4,661,018, 4-28-87, Cl. 405-178.000.

Kinnan, Frank R., to Utilitech, Incorporated. Portable apparatus for and method of pole reinforcement. 4,697,649, 10-6-87, Cl. 175-19.000.

Kinnan, Frank R., to Utilitech, Incorporated. Method and apparatus for installing an in-ground support footing around an upstanding elongate object. 4,697,959, 10-6-87, Cl. 405-232.000.

Kinnard, Wolcott. Camera. 4,685,787, 8-11-87, Cl. 354-83.000.

Kinne, Robert G.: *See—*

D'Angelo, Severino; and Kinne, Robert G., 4,688,419, Cl. 73-117.000.

Kinney, Ohler L., Jr.; Houx, James R., Jr.; and Fritz, Gerald D., to Marley Cooling Tower Company, The. Extruded fill bar for water cooling towers. 4,663,092, 5-5-87, Cl. 261-111.000.

Kinney, Wayne I.: *See—*

Abernathey, John R.; Kinney, Wayne I.; Lasky, Jerome B.; and Stiffler, Scott R., 4,649,627, Cl. 29-571.000.

Kinnison, W. Wayne: *See—*

Anderson, Herbert L.; Kinnison, W. Wayne; and Lillberg, John W., 4,686,368, Cl. 250-374.000.

Kinnunen, Martti I., to Huyck Corporation. Fourteen harness dual layer weave. 4,709,732, 12-1-87, Cl. 139-383.00A.

Kinnunen, Paavo K. J.; Schroder, Tom M.; and Virtanen, Jorma A., to KSV-Chemicals Oy. Method of fluorometrically measuring the activity of fat-degrading enzymes. 4,668,623, 5-26-87, Cl. 435-19.000.

Kino, Eiko: *See—*

Kiyoto, Sumio; Okuhara, Masakuni; Kino, Eiko; Tanaka, Hirokazu; Aoki, Hatsuo; Kohsaka, Masanobu; and Imanaka, Hiroshi, 4,680,178, Cl. 424-122.000.

Kino, Gordon S.; Stearns, Richard G.; and Khuri-Yakub, Butrus T., to Leland Stanford Junior University, The Board of Trustees of the. Thermal acoustic probe. 4,683,750, 8-4-87, Cl. 73-606.000.

Kino, Gordon S.: *See—*

Bowers, John E.; and Kino, Gordon S., 4,652,744, Cl. 250-227.000.

Kino, Toru: *See—*

Naohara, Junsuke; Horie, Toshiki; and Kino, Toru, 4,674,976, Cl. 432-11.000.

Kino, Yoichiro; and Ohtomo, Nobuya, to Juridicial Foundation, The Chemo-Sero-Therapeutic Research Institute. Herpes simplex virus subunit vaccine. 4,661,349, 4-28-87, Cl. 424-89.000.

Kino, Yoshihiro: *See—*

Hirayama, Noriyuki; Ohshima, Masaaki; Takenaka, Naoki; and Kino, Yoshihiro, 4,661,960, Cl. 372-45.000.

Kinoshiro, Hiromichi: *See—*

Masaki, Takeshi; Kawata, Koichi; Sakagaito, Yukuo; Yamaguchi, Katsumasa; Kinoshiro, Hiromichi; and Toba, Hiroto, 4,701,591, Cl. 219-121.0LT.

Kinoshita, Akemi; Araki, Ken; Nawafune, Hidemi; and Mizumoto, Shozo, to C. Uyemura & Co., Ltd. Electroless copper plating bath and method. 4,650,691, 3-17-87, Cl. 427-8.000.

Kinoshita, Akira; Watanabe, Kazumasa; Yamazaki, Hiroshi; and Hirose, Naohiro, to Konishiroku Photo Industry Co., Ltd. Photoreceptor having a photosensitive layer containing an azo compound. 4,692,393, 9-8-87, Cl. 430-59.000.

Kinoshita, Atsufumi, to Kokusan Denki Co., Ltd. Ignition system for an internal combustion engine. 4,651,705, 3-24-87, Cl. 123-603.000.

Kinoshita, Hiroshi: *See—*

Aso, Toshiyuki; and Kinoshita, Hiroshi, 4,707,580, Cl. 219-69.00W.

Kinoshita, Hiroyuki; and Ono, Michihiro, to Tokyo Shibaura Denki Kabushiki Kaisha. MOS type semiconductor device. 4,688,065, 8-18-87, Cl. 357-23.130.

Kinoshita, Katsuo: *See—*

Nakato, Hakaru; Nozaki, Tsutomu; Kinoshita, Katsuo; Habu, Yasuhiro; Ohnuma, Hiroaki; Ohmiya, Shigeru; and Kimura, Tomoaki, 4,673,024, Cl. 164-431.000.

Kinoshita, Katsuyuki; Shinoda, Kazunori; Sugiyama, Masaru; Ooba, Kouichiro; and Suzuki, Yoshiji, to Hamamatsu Photonics Kabushiki Kaisha. Synchronous scan streaking device. 4,677,341, 6-30-87, Cl. 315-12.100.

Kinoshita, Katsuyuki, to Hamamatsu Photonics Kabushiki Kaisha. High-speed frame pick-up camera. 4,694,220, 9-15-87, Cl. 315-10.000.

Kinoshita, Katsuyuki; and Suzuki, Yoshiji, to Hamamatsu Photonics Kabushiki Kaisha. Imaging and streaking tubes including a lid for covering an aperture in a wall separating the tube envelope into spaces during fabrication thereof. 4,698,544, 10-6-87, Cl. 313-379.000.

Kinoshita, Katsuyuki: *See—*

Kato, Makoto; Takiguchi, Yoshihiro; and Kinoshita, Katsuyuki, 4,704,634, Cl. 358-217.000.

Kinoshita, Kazuhiro: *See—*

Takashima, Kiyoshi; Suzuki, Isao; Yoshida, Masashi; Tanaka, Ryutatsu; Masumitsu, Noriyuki; Kinoshita, Kazuhiro; and Ishii, Hiromi, 4,686,081, Cl. 420-29.000.

Kinoshita, Kazumasa: *See—*

Umemoto, Yonetsugu; Shirasawa, Hiroshi; Ogo, Muneya; Kinoshita, Kazumasa; and Kondo, Tetsuo, 4,690,581, Cl. 403-133.000.

Kinoshita, Keichi: *See—*

Takano, Yoshiaki; and Kinoshita, Keichi, 4,697,917, Cl. 355-14.00R.

Kinoshita, Kengi: *See—*

Koyama, Masahiro; Kinoshita, Kengi; Matsuo, Hiroshi; and Okada, Katsuro, 4,667,584, Cl. 99-280.000.

Kinoshita, Kenichi: *See—*

Minami, Katsuhiro; Iwata, Hitoshi; and Kinoshita, Kenichi, 4,698,552, Cl. 315-82.000.

Kinoshita, Kensaku: *See—*

Yamatsu, Isao; Abe, Shinya; Inai, Yuichi; Suzuki, Takeshi; Kinoshita, Kensaku; Mishima, Mannen; Katoh, Yoshinori; Kobayashi, Seiichi; Murakami, Manabu; and Yamada, Kouzi, 4,709,079, Cl. 560-66.000.

Kinoshita, Kimiaki: *See—*

Obitsu, Takeo; Igaki, Tetsuo; Kinoshita, Kimiaki; Nanbu, Morio; and Satoh, Shinichi, 4,680,598, Cl. 503-217.000.

Obitsu, Takeo; Igaki, Tetsuo; Kinoshita, Kimiaki; Nanbu, Morio; and Satoh, Shinichi, 4,687,862, Cl. 549-224.000.

Yahagi, Masakichi; Igaki, Tetsuo; Yosinaka, Sinzi; Morita, Kousaku; Saito, Morikuni; and Kinoshita, Kimiaki, 4,642,357, Cl. 549-226.000.

Yahagi, Masakichi; Igaki, Tetsuo; Yoshinaka, Sinzi; Morita, Kousaku; Saito, Morikuni; and Kinoshita, Kimiaki, 4,665,199, Cl. 549-226.000.

Yahagi, Masakichi; Obitsu, Takeo; Igaki, Tetsuo; Horisawa, Kazuyuki; Nanbu, Morio; Kinoshita, Kimiaki; and Manaka, Sumio, 4,668,967, Cl. 346-221.000.

Yahagi, Masakichi; Igaki, Tetsuo; Yoshinaka, Shinji; Kinoshita, Kimiaki; Saito, Morikuni; Yamashita, Toshiyuki; and Nanbu, Morio, 4,695,640, Cl. 549-226.000.

Kinoshita, Kinjiro, to Yamato Scale Company, Limited. Gate driving device. 4,635,831, 1-13-87, Cl. 222-504.000.

Kinoshita, Koichi: *See—*

Hosaka, Akihito; and Kinoshita, Koichi, 4,653,427, Cl. 118-658.000.

Kinoshita, Kouji, to NEC Corporation. Device for controlling access to a computer memory. 4,677,544, 6-30-87, Cl. 364-200.000.

Kinoshita, Makoto: *See—*

Ebata, Yoshihiro; Hayami, Ryozo; Tamari, Nobuyuki; Toibana, Yasuo; and Kinoshita, Makoto, 4,707,416, Cl. 428-627.000.

Kinoshita, Masaharu: *See—*

Kawakami, Hideo; Tazawa, Shinichi; Endo, Masami; and Kinoshita, Masaharu, 4,674,236, Cl. 51-325.000.

Kinoshita, Masaru: *See—*

Umeyama, Mitsuhiro; Wakahara, Kaoru; Ohtani, Hisao; Kametaka, Kenichi; Kinoshita, Masaru; and Kobayashi, Nobuyuki, 4,693,354, Cl. 192-106.100.

Kinoshita, Mitsuo; and Obara, Haruki, to Fanuc Ltd. Electric discharge machining condition setting system. 4,685,064, 8-4-87, Cl. 364-474.000.

Kinoshita, Mitsuo, to Fanuc Ltd. Taper cutting method. 4,700,314, 10-13-87, Cl. 364-475.000.

Kinoshita, Mitsuo, to Fanuc Ltd. Wire EDM taper cutting method using path data of two planes of a workpiece. 4,703,146, 10-27-87, Cl. 219-69.00W.

Kinoshita, Mitsuo, to Fanuc Ltd. Cut contour display method in wire electric discharge machine. 4,713,517, 12-15-87, Cl. 219-69.00W.

Kinoshita, Naohisa: *See—*

Hattori, Shigenori; Ueno, Hideo; Uchida, Toyohisa; and Kinoshita, Naohisa, 4,665,407, Cl. 346-76.0PH.

Kinoshita, Nichio. Automatic door for a refrigerator. 4,688,352, 8-25-87, Cl. 49-209.000.

Kinoshita, Roy Y.; McCollum, Patrick E.; and Colan, Mark E., to Rockwell International Corporation. Solid state dc rate of rise controlled switch. 4,705,962, 11-10-87, Cl. 307-247.100.

Kinoshita, Roy Y., to Rockwell International Corporation. Solid state dc power switch. 4,709,160, 11-24-87, Cl. 307-253.000.

Kinoshita, Seiichiro: *See—*

Asai, Koh; Izumisawa, Hiroyuki; Owada, Katsuaki; Kinoshita, Seiichiro; and Matsuno, Shunji, 4,646,352, Cl. 382-5.000.

Kinoshita, Shigeo: *See—*

Takai, Kazuki; Kinoshita, Shigeo; Fukazawa, Toshihiko; and Kikuchi, Junichi, 4,672,478, Cl. 360-93.000.

Takai, Kazuki; Ito, Yukio; Kinoshita, Shigeo; Kikuchi, Junichi; and Fukazawa, Toshihiko, 4,688,122, Cl. 360-96.500.

Kinoshita, Shinya: *See—*

Nakahara, Takafumi; Fujiwara, Makoto; Kondo, Motoe; Miyawaki, Yoshiharu; Hanmyo, Masayuki; Kinoshita, Shinya; Matsui, Masao; Tamura, Konoshin; and Murata, Susumu, 4,671,752, Cl. 425-7.000.

Kinoshita, Susumu: *See—*

Irikura, Tsutomu; Suzue, Seigo; Uchida, Hiroaki; Shinoda, Hirotaka; Murayama, Satoshi; and Kinoshita, Susumu, 4,649,198, Cl. 544-281.000.

Kinoshita, Takao, to Canon Kabushiki Kaisha. Image pick-up system. 4,635,126, 1-6-87, Cl. 358-228.000.

Kinoshita, Takao, to Canon Kabushiki Kaisha. Image pick-up apparatus. 4,641,183, 2-3-87, Cl. 358-44.000.

Kinoshita, Takao; Sakai, Shinji; Suga, Akira; and Tojo, Akihiko, to Canon Kabushiki Kaisha. Image sensing apparatus with means for removing unnecessary charges. 4,647,978, 3-3-87, Cl. 358-213.000.

Kinoshita, Takao; Sakai, Shinji; Suga, Akira; and Tojo, Akihiko, to Canon Kabushiki Kaisha. Image sensing apparatus. 4,663,669, 5-5-87, Cl. 358-213.190.

Kinoshita, Takao: *See—*

Hashimoto, Seiji; Kinoshita, Takao; and Tanaka, Nobuyoshi, 4,712,135, Cl. 358-213.220.

Kato, Toshio; Kinoshita, Takao; and Tojo, Akihiko, 4,635,122, Cl. 358-213.000.

Sakai, Shinji; Shinoda, Nobuhiko; Hosoe, Kazuya; and Kinoshita, Takao, 4,641,942, Cl. 354-406.000.

Tsunekawa, Tokuichi; Hosoe, Kazuya; Kinoshita, Takao; Kawabata, Takashi; Sakai, Shinji; and Taguchi, Tatsuya, 4,647,174, Cl. 354-402.000.

Kinoshita, Takeo; Ikoma, Hideyuki; and Tsunooka, Tsutomu, to NGK Spark Plug Co., Ltd. Dielectric ceramic composition and process for producing the same. 4,704,373, 11-3-87, Cl. 501-136.000.

Kinoshita, Taketoshi: *See—*

Shimizu, Kimihiro; Nakahara, Tsuguji; Kinoshita, Taketoshi; Takatsuka, Jun; and Igarashi, Michiko, 4,640,835, Cl. 424-94.000.

Kinoshita, Teruo: *See—*

Moriya, Mikio; and Kinoshita, Teruo, 4,647,237, Cl. 400-124.000.

Kinoshita, Tomoaki; Takano, Kunio; and Tachikawa, Osamu, to Tokyo Juki Industrial Co., Ltd. Sewing machine input device having scaling prohibit function. 4,646,246, 2-24-87, Cl. 364-470.000.

Kinoshita, Tomoaki; Takano, Kunio; Okiyama, Yoichi; and Tachikawa, Osamu, to Tokyo Juki Industrial Co., Ltd. Movement control apparatus for sewing machine. 4,683,827, 8-4-87, Cl. 112-121.120.

Kinoshita, Tomoaki; Takano, Kunio; Nukushina, Masanori; Wada, Minoru; and Tokunaga, Hiroshi, to Tokyo Juki Industrial Co., Ltd. Input device for sewing machine. 4,692,871, 9-8-87, Cl. 364-470.000.

Kinoshita, Tomohiro; Tanabe, Seiichi; and Sasakawa, Eishiro, to Mitsubishi Jukogyo Kabushiki Kaisha. Power generation system in fuel cell. 4,683,177, 7-28-87, Cl. 429-26.000.

Kinoshita, Tomotaka: *See—*

Ujihara, Hiroshi; Nishijima, Hirotaka; Ugawa, Satoru; Kinoshita, Tomotaka; and Obushi, Satoshi, deceased, 4,669,222, Cl. 49-374.000.

Kinoshita, Toru, to Sanyo-Kokusaku Pulp Co., Ltd.; and Saiden Chemical Industry Co., Ltd. Adhesive copolymer microspheres-containing aqueous suspension and method for producing the same. 4,645,783, 2-24-87, Cl. 523-221.000.

Kinoshita, Toru, to Sanyo Kokusaku Pulp Co., Ltd.; and Saiden Chemical Industry Co., Ltd. Adhesive copolymer microspheres-containing aqueous suspension and method for producing the same. 4,656,218, 4-7-87, Cl. 524-460.000.

Kinoshita, Toshiharu: *See—*

Takeda, Yoshiaki; Kinoshita, Toshiharu; and Kai, Osamu, 4,644,109, Cl. 379-27.000.

Kinoshita, Toshio; and Hiyama, Naoki, to Du Pont de Nemours, E. I. and Company. Connector for flexible printed circuit. 4,684,183, 8-4-87, Cl. 439-77.000.

Kinoshita, Toshio: *See—*

Ishida, Yasuo; Fujiwara, Michihiko; Kinoshita, Toshio; and Nimura, Noriyuki, 4,670,403, Cl. 436-90.000.

Kinoshita, Toshiyuki; Arai, Toshiaki; Sato, Takao; Kubo, Takashige; Yoshizawa, Yasufumi; and Mori, Hiromichi, to Hitachi, Ltd. Memory hierarchy control method with replacement based on request frequency. 4,703,422, 10-27-87, Cl. 364-200.000.

Kinoshita, Tosuke: *See—*

Hashimoto, Isao; Kinoshita, Tosuke; Uchida, Masahiro; and Uchiyama, Susumu, 4,679,739, Cl. 241-121.000.

Hashimoto, Isao; Kinoshita, Tosuke; Uchida, Masahiro; and Uchiyama, Susumu, 4,684,069, Cl. 241-79.100.

Soma, Hiroshi; Hashimoto, Isao; Kinoshita, Tosuke; Uchida, Masahiro; and Uchiyama, Susumu, 4,643,366, Cl. 241-117.000.

Kinoshita, Tsuneo, to Tokyo Shibaura Denki Kabushiki Kaisha. Semiconductor device. 4,675,849, 6-23-87, Cl. 365-230.000.

Kinoshita, Tsuneo, to Kabushiki Kaisha Toshiba. 16-bit microprocessor system. 4,691,282, 9-1-87, Cl. 364-200.000.

Kinoshita, Tsuyoshi, to Mitsubishi Denki Kabushiki Kaisha. Manipulator device for a reflecting mirror. 4,648,692, 3-10-87, Cl. 350-632.000.

Kinoshita, Tsuyoshi, to Mitsubishi Denki Kabushiki Kaisha. Handpiece support arrangement. 4,660,798, 4-28-87, Cl. 248-648.000.

Kinoshita, Yoshiaki, to Toyota Jidosha Kabushiki Kaisha. Automotive-engine fuel supply system. 4,711,200, 12-8-87, Cl. 123-492.000.

Kinoshita, Yoshiaki, to Toyota Jidosha Kabushiki Kaisha. Method and apparatus for controlling heater for heating air-fuel ratio sensor. 4,715,343, 12-29-87, Cl. 123-489.000.

Kinoshita, Yoshiaki: *See—*

Oosawa, Kouichi; and Kinoshita, Yoshiaki, 4,715,184, Cl. 60-602.000.

Kinoshita, Yoshichika; and Suzuki, Noriyasu, to Mitsumi-Cinch, Ltd. Modular plug and printed circuit connector. 4,647,136, 3-3-87, Cl. 339-125.00R.

Kinoshita, Yoshio: *See—*

Masuda, Toshiro; Ishizuka, Kouichi; Fujita, Toshiji; and Kinoshita, Yoshio, 4,685,139, Cl. 382-1.000.

Shoji, Masao; Uchida, Mikio; and Kinoshita, Yoshio, 4,635,770, Cl. 192-41.00A.

Kinoshita, Yuji: *See—*

Kumagai, Isao; Kataoka, Makoto; and Kinoshita, Yuji, 4,663,013, Cl. 204-296.000.

Kinoshita, Yusuke: *See—*

Arai, Takeo; Anno, Nobuo; Kinoshita, Yusuke; and Kusakabe, Yukio, 4,683,844, Cl. 123-41.740.

Kinoto, Takao: *See—*

Takeshiba, Hideo; Kinoto, Takao; and Jojima, Teruomi, 4,661,486, Cl. 514-252.000.

Kinouchi, Takashige: *See—*

Miyata, Shinobu; and Kinouchi, Takashige, 4,706,219, Cl. 365-189.000.

Kinsel, Jane F.: *See—*

Sheth, Bhogilal B.; Gilbert, Sheri A.; and Kinsel, Jane F., 4,666,716, Cl. 424-195.100.

Kinsell, Robert C.: *See—*

Limberg, Gilbert E.; and Kinsell, Robert C., 4,665,973, Cl. 165-133.000.

Kinser, Robert E. Cheese cutter apparatus. 4,672,873, 6-16-87, Cl. 83-200.100.

- Kinsey, Joe L., Jr.: *See—*
  - Gibbons, Charles E.; Whillock, Allan A.; Lanham, Robert L.; and Kinsey, Joe L., Jr., 4,698,246, Cl. 428-35.000.
- Kinsey, Kenneth M.; Talton, Tommy E.; and Lay, Robert L. Energy saver sliding door closer including a valved weight. 4,649,598, 3-17-87, Cl. 16-81.000.
- Kinsey, Richard R., to General Electric Company. Rotating planar array antenna. 4,675,681, 6-23-87, Cl. 342-372.000.
- Kinsey, Robert, to Kombilift Limited. Load lifting apparatus with overturning prevention means. 4,687,406, 8-18-87, Cl. 414-701.000.
- Kinshofer, Alfred. Grab bucket and actuating mechanism therefor. 4,654,987, 4-7-87, Cl. 37-186.000.
- Kinshofer, Alfred. Two-sided grab bucket with plural operating cylinders. 4,695,086, 9-22-87, Cl. 294-68.230.
- Kinsley, Ann M.; and Mansi, William A., to Wickes Manufacturing Company. Anchoring system. 4,679,369, 7-14-87, Cl. 52-155.000.
- Kinsley, Robert J., to Vogel Tool & Die Corporation. Tube cut off apparatus. 4,694,718, 9-22-87, Cl. 83-319.000.
- Kinslow, Joseph C.: *See—*
  - Meyer, Bernard H.; DiGiulio, Adolph V.; Kinslow, Joseph C.; and Hajnik, Dennis M., 4,663,357, Cl. 521-59.000.
  - Meyer, Bernard H.; DiGiulio, Adolph V.; Kinslow, Joseph C.; and Hajnik, Dennis M., 4,673,694, Cl. 521-59.000.
- Kinsman, Donald V.: *See—*
  - Luken, Clement H., Jr.; and Kinsman, Donald V., 4,682,947, Cl. 431-288.000.
  - Luken, Clement H., Jr.; and Kinsman, Donald V., 4,714,496, Cl. 106-270.000.
- Kinsman, Robert G.: *See—*
  - Chason, Marc K.; Kotecki, Carl A.; Tomase, Joseph P.; Onystok, Michael J.; Ryback, Donald J.; Kinsman, Robert G.; Dworsky, Lawrence N.; Nield, Kenneth J.; and Moore, Steven C., 4,639,631, Cl. 310-344.000.
- Kintek, Inc.: *See—*
  - Blackmer, David E.; and Townsend, James H., Jr., 4,680,796, Cl. 381-23.000.
  - Blackmer, David E.; and Townsend, James H., Jr., 4,706,287, Cl. 351-17.000.
- Kinugasa, Masahiro: *See—*
  - Kuno, Kazuo; and Kinugasa, Masahiro, 4,646,044, Cl. 335-299.000.
- Kinugasa, Toshiyuki; Furuya, Tamio; Ishige, Yoshiki; Tsuchimoto, Yuichi; and Takahashi, Shoji, to Honda Giken Kogyo Kabushiki Kaisha. Vacuum mold. 4,714,424, 12-22-87, Cl. 425-388.000.
- Kinugasa, Yukio, to Toyota Jidosha Kabushiki Kaisha. Method and apparatus for controlling air-fuel ratio in internal combustion engine. 4,667,631, 5-26-87, Cl. 123-325.000.
- Kinugasa, Yukio: *See—*
  - Hanafusa, Tooru; Kinugasa, Yukio; and Yaegashi, Takehisa, 4,700,681, Cl. 123-478.000.
- Kinugawa, Kiyoshi: *See—*
  - Washizuka, Isamu; and Kinugawa, Kiyoshi, 4,692,740, Cl. 340-365.00R.
- Kinugawa, Kiyoshige: *See—*
  - Endo, Shyusuke; Aoyama, Naofumi; Yabuuchi, Toshihiko; Sakuma, Toshiyuki; and Kinugawa, Kiyoshige, 4,701,025, Cl. 350-333.000.
  - Endo, Shyusuke; Aoyama, Naofumi; Yabuuchi, Toshihiko; Sakuma, Toshiyuki; and Kinugawa, Kiyoshige, 4,702,560, Cl. 350-333.000.
- Kinugawa, Masumi: *See—*
  - Abe, Tomoaki; Fujisawa, Hideya; Omori, Norio; Kinugawa, Masumi; Ito, Katsunori; Akiyama, Susumu; Mizuno, Tiaki; and Yamada, Toshitaka, 4,713,765, Cl. 364-431.050.
  - Akiyama, Susumu; Ito, Katsunori; Yamada, Toshitaka; Mizuno, Tiaki; and Kinugawa, Masumi, 4,669,306, Cl. 73-204.000.
  - Akiyama, Susumu; Ito, Katsunori; Hirabayashi, Yuzi; Kinugawa, Masumi; and Omori, Norio, 4,671,242, Cl. 123-486.000.
  - Ina, Katsuhiro; Sato, Yoshihisa; Kinugawa, Masumi; Suzuki, Atsushi; Ito, Katsunori; Akiyama, Susumu; Mizuno, Tiaki; Yamada, Toshitaka; and Abe, Tomoaki, 4,665,745, Cl. 73-204.000.
  - Sato, Yoshihisa; Kinugawa, Masumi; Akiyama, Susumu; Yamada, Toshitaka; Mizuno, Tiaki; Suzuki, Atsushi; and Sugiura, Kengo, 4,680,964, Cl. 73-204.000.
  - Sato, Yoshihisa; Kinugawa, Masumi; Akiyama, Susumu; Yamada, Toshitaka; Mizuno, Tiaki; and Suzuki, Atsushi, 4,683,858, Cl. 123-486.000.
- Kinugawa Rubber Ind. Co. Ltd.: *See—*
  - Tabata, Toshikazu; Fujiwara, Yoshinari; Yoda, Norio; and Aikawa, Hiroshi, 4,679,778, Cl. 267-140.100.
  - Tabata, Toshiyuki; Aikawa, Hiroshi; Fujiwara, Yoshinari; and Yoda, Norio, 4,708,329, Cl. 267-140.100.
- Kinugawa, Ryoji: *See—*
  - Oyama, Minoru; and Kinugawa, Ryoji, 4,674,008, Cl. 361-417.000.
- Kinugawa, Tadami: *See—*
  - Masumoto, Mituhiko; Yanada, Shigeo; and Kinugawa, Tadami, 4,695,620, Cl. 528-204.000.
- Kinyon, Garrett K.: *See—*
  - Eichman, Carl E.; Gurubatham, Vincent P.; Hauch, Dennis W.; and Kinyon, Garrett K., 4,700,554, Cl. 68-17.00R.
- Kinze Manufacturing, Inc.: *See—*
  - Kinzenbaw, Jon E., 4,648,334, Cl. 111-52.000.
- Kinzel, Peter: *See—*
  - Staiger, Gerhard; Selmayr, Tassilo; Kinzel, Peter; and Reutter, Anneliese, 4,639,541, Cl. 560-20.000.
- Kinzel, Richard: *See—*
  - Gaa, Roland; and Kinzel, Richard, 4,708,116, Cl. 123-506.000.
- Kinzenbaw, Jon E., to Kinze Manufacturing, Inc. Agricultural row crop planter with rear-driven row units. 4,648,334, 3-10-87, Cl. 111-52.000.
- Kinzenbaw, Jon E. Apparatus for leveling a combine. 4,696,152, 9-29-87, Cl. 56-209.000.
- Kinzer, Norbert: *See—*
  - Sauerwein, Kurt; Kinzer, Norbert; and Mick, Felix W., 4,692,628, Cl. 250-497.100.
- Kinzler, Ulrich: *See—*
  - Hammer, Klaus-Dieter; Winter, Hermann; and Kinzler, Ulrich, 4,670,273, Cl. 426-105.000.
- Kioka, Mamoru; and Kashiwa, Norio, to Mitsui Petrochemical Industries, Ltd. Process for producing olefin polymers and catalyst composition therefor. 4,673,719, 6-16-87, Cl. 526-125.000.
- Kioka, Mamoru: *See—*
  - Kashiwa, Norio; Kioka, Mamoru; Kohyama, Masaki; and Ishiyama, Masanobu, 4,668,753, Cl. 526-348.000.
  - Tsutsui, Toshiyuki; Kioka, Mamoru; Toyota, Akinori; and Kashiwa, Norio, 4,704,491, Cl. 585-10.000.
- Kioritz Corporation: *See—*
  - Baba, Toru, 4,640,084, Cl. 56-12.700.
  - Hironaka, Yoshiaki, 4,714,447, Cl. 464-52.000.
  - Kamata, Yoshikiyo; and Fukuoka, Takashi, 4,664,154, Cl. 137-857.000.
  - Kamata, Yoshikiyo, 4,693,457, Cl. 267-153.000.
  - Matsubayashi, Tatsuhiko, 4,712,523, Cl. 123-188.00M.
  - Nagashima, Akira, 4,654,970, Cl. 30-383.000.
  - Nagashima, Akira, 4,681,608, Cl. 55-276.000.
  - Nagashima, Akira, 4,682,830, Cl. 439-224.000.
  - Nagashima, Akira, 4,702,139, Cl. 83-830.000.
  - Nagashima, Akira, 4,715,845, Cl. 474-152.000.
  - Sato, Masatoshi; and Akaike, Junichi, 4,667,786, Cl. 192-17.00R.
  - Satoh, Masatoshi; and Akaike, Junichi, 4,702,063, Cl. 56-202.000.
  - Tanaka, Hiroyuki, 4,655,032, Cl. 56-12.700.
  - Tasaki, Takanobu; and Nagashima, Akira, 4,681,188, Cl. 181-229.000.
  - Uchida, Teruo, 4,656,723, Cl. 29-558.000.
- Kip, Ruloff F., Jr.: *See—*
  - Kimball, David B.; and Kip, Ruloff F., Jr., 4,713,564, Cl. 307-542.100.
- Kipling, Graham V., to Diesel Equipment Limited. Modulator valve. 4,682,621, 7-28-87, Cl. 137-116.300.
- Kipnis, Issy, to Avantek, Inc. Self-oscillating mixer with Darlington transistors. 4,688,005, 8-18-87, Cl. 331-117.00R.
- Kipp, Egbert M.; Kirk, Thomas E.; and Riddle, Barry L., to Reynolds Metals Company. Water soluble lubricant. 4,636,321, 1-13-87, Cl. 252-49.300.
- Kipp, Egbert M.; and Riddle, Barry L., to Reynolds Metals Company. Microemulsion lubricant. 4,654,155, 3-31-87, Cl. 252-32.500.
- Kipp, William G.: *See—*
  - Barber, Michael D.; and Kipp, William G., 4,649,747, Cl. 73-440.000.
- Kipperman, Stuart R.: *See—*
  - Bruno, Robert; Kipperman, Stuart R.; Mayer, Geoffrey R.; and Thomas, Michael, 4,713,064, Cl. 604-257.000.
- Kipphan, Helmut; and Loffler, Gerhard, to Heidelberger Druckmaschinen AG. Method for colorimetrically evaluating a sheet printed on both sides thereof. 4,637,728, 1-20-87, Cl. 356-402.000.
- Kipphan, Helmut; Rodi, Anton; and Blaser, Peter, to Heidelberger Druckmaschinen AG. Measuring and/or color matching table with a sheet support surface. 4,668,090, 5-26-87, Cl. 356-244.000.
- Kipphan, Helmut: *See—*
  - Jeschke, Willi; Kipphan, Helmut; and Loffler, Gerhard, 4,681,455, Cl. 356-445.000.
- Kira, Hirofumi: *See—*
  - Shikama, Toshihiro; Ota, Takahisa; Ishizaka, Michihiro; Kira, Hirofumi; Horiguchi, Akira; and Kooi, Yuji, 4,685,105, Cl. 370-86.000.
- Kira, Tohru: *See—*
  - Nakamura, Tsuneo; Yamasaki, Hidenori; Kira, Tohru; and Yoshikawa, Mitsuhiko, 4,677,036, Cl. 428-694.000.
  - Nakamura, Tsuneo; Yamasaki, Hidenori; Kira, Tohru; and Yoshikawa, Mitsuhiko, 4,702,794, Cl. 156-643.000.
- Kira, Toru; Miyauchi, Teichi; and Yoshikawa, Mitsuhiko, to Sharp Kabushiki Kaisha. Thin film magnetic head having a magnetized ferromagnetic film on the MR element. 4,639,806, 1-27-87, Cl. 360-113.000.
- Kira, Toru: *See—*
  - Minakata, Ryoji; Kira, Toru; and Yoshikawa, Mitsuhiko, 4,699,702, Cl. 204-192.200.
- Kiral, Richard M.: *See—*
  - Huth, Stanley W.; Lam, Sam W.; and Kiral, Richard M., 4,670,178, Cl. 252-95.000.
- Kiraly, Arpad: *See—*
  - Keve, Tibor; Zsadon, Bela; Fekete, Gyorgy; Galambos, Janos; Barta nee Bukovecz, Margit; Szporny, Laszlo ; Forgacs, Lilla; Kiraly, Arpad; Soos, Gyongyver; Kiss, Bela; and Zajer nee Balazs, Maria, 4,680,397, Cl. 546-51.000.
- Kirby, Charles A., to Northwest Design Products, Inc. Connector system for structural framework. 4,692,054, 9-8-87, Cl. 403-171.000.
- Kirby, Chris. Heat/cool comfort controller. 4,703,886, 11-3-87, Cl. 236-44.00E.
- Kirby, Daniel. Sign support structure. 4,700,655, 10-20-87, Cl. 116-174.000.
- Kirby, David, to Lutron Electronics Co., Inc. Protective bypass for electronic circuits. 4,639,819, 1-27-87, Cl. 361-115.000.

Kirby, Diane N.: *See—*
- Arnold, Allen J.; Courtney, Mark G.; Kirby, Diane N.; Mis, Katherine H.; and Sutton, Kerry L., 4,715,430, Cl. 165-80.300.

Kirby, Jane P.; Fantini, Amedeo A.; Borders, Donald B.; Testa, Raymond T.; and Martin, John H. E. J., deceased (by Martin, Mary B., executrix), to American Cyanamid Company. Biologically pure culture of *Streptoverticillium stramineum* sp. nov. 4,650,765, 3-17-87, Cl. 435-254.000.

Kirby, Jane P.; Borders, Donald B.; Lee, May D.; Maiese, William M.; Testa, Raymond T.; and Labeda, David P., to American Cyanamid Company. Antibiotic LL-C19004. 4,699,790, 10-13-87, Cl. 424-117.000.

Kirby, Michael J.: *See—*
- Hashish, Mohamed A.; Kirby, Michael J.; and Pao, Yih-Ho, 4,648,215, Cl. 51-439.000.

Kirby, Mike: *See—*
- Geller, Edward; Kirby, Mike; Mercer, John; O'Hanlon, Tom; Reichman, Jim; Theimer, Ken, and Svendsen, Robert, 4,674,579, Cl. 175-45.000.

Kirby, Robert A., to Exxon Production Research Company. Debris ejector for a seismic vibrator. 4,697,667, 10-6-87, Cl. 181-113.000.

Kirby's Engineers, Ltd.: *See—*
- Highfield, James H.; and Pugh, Roy, 4,643,062, Cl. 83-285.000.

Kirch, Hans: *See—*
- Johnen, Rolf; Kirch, Hans; and Otto, Volkmar, 4,696,657, Cl. 464-93.000.

Kirch, Otto; and Willenbacher, Erich, to Pfaff Industriemaschinen GmbH. Guide device for the workpiece of a sewing machine. 4,681,051, 7-21-87, Cl. 112-306.000.

Kirchanski, Stefan J.: *See—*
- Brown, Michael C.; and Kirchanski, Stefan J., 4,637,986, Cl. 436-10.000.

Kirchbrucher, Rudiger: *See—*
- Becker, Kunibert; Kirchbrucher, Rudiger; and Preuschoff, Michael, 4,639,169, Cl. 405-291.000.

Kircher, Dieter; von Gruenberg, Hubertus; Blum, Klaus D.; and Becker, Peter, to Alfred Teves GmbH. Process and apparatus for the control of a brake unit for automotive vehicles. 4,658,939, 4-21-87, Cl. 188-156.000.

Kircher, Dieter; von Gruenber, Hubertus; and Blum, Klaus D., to ITT Industries, Inc. Method for the control of a slip-controlled brake system and device for implementing the method. 4,702,531, 10-27-87, Cl. 303-114.000.

Kircher, Klaus: *See—*
- Kress, Hans-Jurgen; Bottenbruch, Ludwig; Witman, Mark; Kircher, Klaus; Lindner, Christian; and Ott, Karl-Heinz, 4,649,168, Cl. 524-130.000.
- Kress, Hans-Jurgen; and Kircher, Klaus, 4,657,955, Cl. 524-94.000.
- Kress, Hans-Jurgen; and Kircher, Klaus, 4,661,543, Cl. 524-94.000.
- Kress, Hans-Jurgen; and Kircher, Klaus, 4,713,462, Cl. 548-473.000.

Kircher, Robert C., Jr.: *See—*
- King, Ethmer W.; Kircher, Robert C., Jr.; and Yotsuuye, David S., 4,692,869, Cl. 364-448.000.

Kirchhan, James J. Containerized shock mount. 4,712,685, 12-15-87, Cl. 206-591.000.

Kirchhoff, Bernd; and Mecklenfeld, Hermann, to O&K Orenstein & Koppel Aktiengesellschaft. Apparatus for charging at least one top-loading crusher. 4,712,744, 12-15-87, Cl. 241-80.000.

Kirchhoff, Pamela M.: *See—*
- Tomalia, Donald A.; and Kirchhoff, Pamela M., 4,694,064, Cl. 528-332.000.

Kirchhoff, Robert A., to Dow Chemical Company, The. Arylcyclobutenyl amido alkenoic acids and salts thereof. 4,638,078, 1-20-87, Cl. 558-414.000.

Kirchhoff, Robert A.; Schrock, Alan; and Gilpin, Jo A., to Dow Chemical Company, The. Prepolymer processing of arylcyclobutene monomeric compositions. 4,642,329, 2-10-87, Cl. 526-284.000.

Kirchhoff, Robert A.; and Gilpin, Jo Ann, to Dow Chemical Company, The. Adhesive compositions for arylcyclobutene monomeric compositions. 4,661,193, 4-28-87, Cl. 156-307.300.

Kirchhoff, Robert A.; and Hahn, Stephen F., to Dow Chemical Company, The. Alkynyl-bridged poly(arylcyclobutene) resins. 4,687,823, 8-18-87, Cl. 526-284.000.

Kirchhoff, Rolf: *See—*
- Conrads, Norbert; Schiebel, Ulrich; and Kirchhoff, Rolf, 4,635,072, Cl. 346-1.100.

Kirchhuebel, Rainer, to Oculus Optikgeraete GmbH. Method for controlling fixation of a patient's eye during perimeter measurements. 4,685,784, 8-11-87, Cl. 351-226.000.

Kirchhuebel, Rainer: *See—*
- Spitznas, Manfred; Reiner, Josef; Veit, Wolfgang; and Kirchhuebel, Rainer, 4,710,000, Cl. 350-516.000.

Kirchmayer, Gerald: *See—*
- Marsoner, Hermann; Kirchmayer, Gerald; and List, Helmut, 4,704,893, Cl. 73-1.00G.

Kirchmayr, Rudolf; and Rutsch, Werner, to Ciba-Geigy Corporation. Masked curing catalyst for acid-curable compositions. 4,636,575, 1-13-87, Cl. 558-58.000.

Kirchmayr, Rudolf; and Rutsch, Werner, to Ciba-Geigy Corporation. Process for preparing relief images using acid-curable resins and masked curing catalysts. 4,708,926, 11-24-87, Cl. 430-306.000.

Kirchmeier, Hans. Rotary heat exchanger. 4,699,206, 10-13-87, Cl. 165-7.000

Kirchner, Albert; Schoen, Juergen; and Happ, Ortwin, to Siemens Aktiengesellschaft. Hammer brush holder assembly for a commutator motor. 4,638,204, 1-20-87, Cl. 310-239.000.

Kirchner, Horst, to Braun Aktiengesellschaft. Jet tip for an oral hygiene appliance with a single or multiple stream. 4,671,259, 6-9-87, Cl. 128-66.000.

Kirchner, Tommy L.; and Powers, Hurshal G., to United States of America, Energy. Hand-held optical fuel pin scanner. 4,637,718, 1-20-87, Cl. 356-71.000.

Kirchner, Tommy L.; Vargo, George F., Jr.; and Cantrell, Steven C., to Electronic Systems Technology, Inc. Wireless computer modem. 4,665,519, 5-12-87, Cl. 370-94.000.

Kirchner & Wilhelm, Firma: *See—*
- Fassbender, Nikolaus, 4,669,572, Cl. 181-137.000

Kirchoff, George: *See—*
- Adams, Gary V.; Dahle, David P.; and Kirchoff, George, 4,699,400, Cl. 280-731.000.

Kirchpfening, Martha M., Stefan Kirchpfening, Klaus Kirchpfening, heirs: *See—*
- Plackner, Kurt; Schamberger, Rudolf; and Kirchpfening, Max, deceased, 4,645,963, Cl. 310-266.000.

Kirchpfening, Max, deceased: *See—*
- Plackner, Kurt; Schamberger, Rudolf; and Kirchpfening, Max, deceased, 4,645,963, Cl. 310-266.000.

Kirck, George T. Reed case. 4,674,630, 6-23-87, Cl. 206-205.000.

Kiremidjian, Frederick B.; and Buchanan, Jefferson C., to Counterpoint Computers. Multiple station video memory. 4,704,697, 11-3-87, Cl. 364-518.000.

Kiren-Amgen, Inc.: *See—*
- Lin, Fu-Kuen, 4,703,008, Cl. 435-240.200.

Kiriake, Masaharu: *See—*
- Ueda, Yutaka; and Kiriake, Masaharu, 4,681,231, Cl. 209-656.000.

Kiribai Chemical Industry Co., Ltd.: *See—*
- Yasuki, Ryuichi; and Sohara, Toshitsugu, 4,649,895, Cl. 126-263.000.

Kirigaya, Tadayuki; and Taguchi, Ichiro, to Asahi Kogaku Kogyo Kabushiki Kaisha. Pair of light shielding film cases for surveillance camera. 4,705,375, 11-10-87, Cl. 354-275.000.

Kirihara, Shozo: *See—*
- Tatukawa, Juniti; and Kirihara, Shozo, 4,701,654, Cl. 310-153.000.

Kirii, Kazunari; Toyoda, Mamoru; Utsumi, Masatoki; and Asai, Akio, to Toyota Jidosha Kabushiki Kaisha. Method of and apparatus for controlling forming press conditions. 4,698,991, 10-13-87, Cl. 62-21.000.

Kirii, Kazunari: *See—*
- Asai, Akio; Watanabe, Kazuki; Yoshinaka, Ryoji; and Kirii, Kazunari, 4,667,496, Cl. 72-20.000.

Kirilloff, Victor V.; Benson, William A.; Cummins, Robert; and Dawson, Richard S., to Mosebach Manufacturing Company. Frame supported grid resistor. 4,651,124, 3-17-87, Cl. 338-280.000.

Kirimoto, Tetsuo; Kondo, Michimasa; and Fujisaka, Takahiko, to Mitsubishi Denki Kabushiki Kaisha. Radar system. 4,656,479, 4-7-87, Cl. 342-94.000.

Kirimura, Shun-ichiro: *See—*
- Nakahara, Yasuzi; Yamagishi, Hideki; and Kirimura, Shun-ichiro, 4,675,233, Cl. 428-323.000.

Kirin-Amgen, Inc.: *See—*
- Lai, Por-Hsiung; and Strickland, Thomas W., 4,667,016, Cl. 530-397.000.

Kirin Beer Kabushiki Kaisha: *See—*
- Komano, Tohru; and Ohyma, Kanji, 4,710,461, Cl. 435-68.000.
- Nagao, Masami; and Oosawa, Tadakazu, 4,635,509, Cl. 81-3.200.
- Nakanishi, Koichi; Onaka, Toshio; and Inoue, Takashi, 4,698,224, Cl. 426-11.000.
- Reich, Frederich R.; and Allen, Errol V., 4,651,568, Cl. 73-612.000.
- Shirakura, Akira; Yonezawa, Ichiro; and Yokokura, Shuichi, 4,676,379, Cl. 209-599.000.
- Suzuki, Toshio; Saegusa, Takeshi; Takasu, Toshimitsu; Nakayama, Yuji; and Yamaguchi, Yutaka, 4,665,957, Cl. 141-39.000.
- Takahashi, Yutaka; and Takahashi, Yasutada, 4,648,424, Cl. 137-504.000.

Kirino, Fumiyoshi: *See—*
- Hiratani, Masahiko; Miyauchi, Katsuki; Ito, Yukio; Kanehori, Keiichi; Kirino, Fumiyoshi; and Kudo, Tetsuichi, 4,645,726, Cl. 429-191.000.

Kirita, Yasuzo: *See—*
- Gion, Hidenori; Yoda, Takumi; Kirita, Yasuzo; Zaima, Kazuhito; and Kurata, Noriyuki, 4,715,849, Cl. 604-52.000.

Kiritani, Masataka; Usami, Toshimasa; and Tanaka, Toshiharu, to Fuji Photo Film Co., Ltd. Heat-sensitive recording material. 4,665,411, 5-12-87, Cl. 346-213.000.

Kiriu, Takashi: *See—*
- Kawagishi, Yoji; Narita, Shinichi; Kiriu, Takashi; and Uomoto, Kenji, 4,656,112, Cl. 430-110.000.

Kiriu, Yoshio; Kaneko, Shigeru; and Kosuge, Hiroshi, to Hitachi, Ltd. Method for correcting and detecting errors. 4,692,922, 9-8-87, Cl. 371-37.000.

Kiriyama, Mitsuo: *See—*
- Amagasa, Nobutada; Takatani, Ryoji; Inoo, Hiroshi; Suzuki, Kazuichi; and Kiriyama, Mitsuo, 4,646,131, Cl. 357-79.000.

Kiriyama, Takashi: *See—*
- Nishii, Michiharu; Furuta, Youichi; Tsubouchi, Kaoru; Murata, Takeo; Shibatani, Juichi; and Kiriyama, Takashi, 4,683,807, Cl. 92-169.000.

Kirjavainen, Kari. Electromechanical film and procedure for manufacturing same. 4,654,546, 3-31-87, Cl. 307-400.000.

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Mock, Donald E., 4,640,314, Cl. 138-162.000.

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Kirkland, Alvin E., to Conlin Bros., Inc. Directly replaceable shoulder padding for football and the like. 4,675,912, 6-30-87, Cl. 2-2.000.

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Kirsch, Hans-Peter, to Mauser-Werke Oberndorf GmbH. Method and apparatus for marking workpieces. 4,642,897, 2-17-87, Cl. 33-18.100.

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Kirsch, Jerome; Kopsco, M. Alan; Markow, Edward; and Sturm, Michael, to Grumman Aerospace Corporation. Transient air and surface contact vehicle. 4,685,641, 8-11-87, Cl. 244-105.000.

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  Pryst, Theodore S.; and Kirschner, John G., 4,672,358, Cl. 338-226.000.

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Kirschner, Michael; Rapp, Gunter; and Zechmall, Martin, to Robert Bosch GmbH. Pulse shaper for inductive transmitters. 4,682,049, 7-21-87, Cl. 307-268.000.

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Kirstein, Gerhard, to Zahnraderfabrik Renk AG. Measuring and testing circuit. 4,661,772, 4-28-87, Cl. 324-158.00R.

Kirsten, Rolf: *See—*
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Kishi, Hiroshi: *See—*
- Chazono, Hirokazu; Kishi, Hiroshi; Murai, Shunji; Fukui, Masami; and Wada, Takeshi, 4,700,266, Cl. 361-321.000.
- Chazono, Hirokazu; Kishi, Hiroshi; Murai, Shunji; Fukui, Masami; and Wada, Takeshi, 4,700,267, Cl. 361-321.000.
- Chazono, Hirokazu; Kishi, Hiroshi; Murai, Shunji; Fukui, Masami; and Wada, Takeshi, 4,700,268, Cl. 361-321.000.

Kishi, Hirotoshi, to Canon Kabushiki Kaisha. Image display apparatus. 4,636,787, 1-13-87, Cl. 340-792.000.

Kishi, Hirotoshi, to Canon Kabushiki Kaisha. Image display apparatus. 4,646,164, 2-24-87, Cl. 358-300.000.

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Kishi, Hiroyoshi; and Matsushima, Masaaki, to Canon Kabushiki Kaisha. Magnetooptical recording medium. 4,693,943, 9-15-87, Cl. 428-678.000.

Kishi, Hiroyoshi: *See—*
- Ishiwatari, Takahiko; Kishi, Hiroyoshi; Kawade, Hisaaki; Matsushima, Masaaki; Sawamura, Mitsuharu; and Honguu, Kazuoki, 4,658,388, Cl. 369-13.000.
- Takano, Katsuhiko; Yoshihara, Satoshi; Iijima, Shigeharu; Sasamori, Eizo; Matsushima, Masaaki; and Kishi, Hiroyoshi, 4,710,418, Cl. 428-192.000.

Kishi, Hisao: *See—*
- Fukuhara, Hiroshige; Takai, Hideo; Uekusa, Yasuyuki; and Kishi, Hisao, 4,672,382, Cl. 342-357.000.

Kishi, Kanesuke, to Sawafuji Dynameca Co., Ltd. Piezoelectric vibrating elements and piezoelectric electroacoustic transducers. 4,654,554, 3-31-87, Cl. 381-158.000.

Kishi, Ken-ichi; Tuzita, Kenzi; Daidoji, Tuneo; Okuyama, Yuki; and Kimura, Kiyoshi, to Konishiroku Photo Industry Co., Ltd. Process for transfer of a toner image utilizing a magnetic toner containing a binder resin and having gradual softening characteristics. 4,675,268, 6-23-87, Cl. 430-126.000.

Kishi, Kenichi: *See—*
- Okuyama, Yuji; Kishi, Kenichi; Tuzita, Kenzi; and Ban, Tsuyako, 4,654,287, Cl. 430-106.600.

Kishi, Kohhei; Koden, Mitsuhiro; and Funada, Fumiaki, to Sharp Kabushiki Kaisha. Method of manufacturing thin film transistor. 4,684,435, 8-4-87, Cl. 156-632.000.

Kishi, Makoto; and Matsuo, Toshihisa, to Hitachi, Ltd. Multi-processor system with hierarchy buffer storages. 4,675,811, 6-23-87, Cl. 364-200.000.

Kishi, Makoto: *See—*
- Shiozaki, Kenichi; Kishi, Makoto; Yanagita, Tomoatsu; and Kubo, Kanji, 4,658,356, Cl. 364-200.000.

Kishi, Matsuo; Ogawa, Kenichi; and Ikeno, Hiroshige, to Seiko Instruments & Electronics Ltd. Ornamental part. 4,699,850, 10-13-87, Cl. 428-469.000.

Kishi, Mitsuhiro, to Kabushiki Kaisha Hikoma Seisakusho. Elevating apparatus. 4,638,887, 1-27-87, Cl. 187-9.00R.

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Kishi, Mitsuihiro, to Kabushiki Kaisha Hikoma Seisakucho. Lifting apparatus. 4,691,805, 9-8-87, Cl. 187-9.00R.

Kishi, Mitsuihiro, to Kabushiki Kaisha Hikoma Seisakusho. Lifting apparatus. 4,694,930, 9-22-87, Cl. 182-2.000.

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- Noso, Kazunori; Kishi, Norimasa; and Futami, Toru, 4,637,045, Cl. 381-43.000.

Kishi, Noriyuki: *See—*
- Otobe, Yutaka; and Kishi, Noriyuki, 4,636,957, Cl. 364-431.070.

Kishi, Takamichi: *See—*
- Samejima, Yasushi; Shiga, Minoru; Kano, Toshiji; and Kishi, Takamichi, 4,643,808, Cl. 204-98.000.

Kishi, Toru; and Saito, Takashi, to Victor Company of Japan, Ltd. Feed mechanism. 4,669,328, 6-2-87, Cl. 74-422.000.

Kishi, Toshiaki; and Kohama, Mitsuyoshi, to Honda Giken Kogyo Kabushiki Kaisha. Cowling device for riding type vehicles. 4,678,223, 7-7-87, Cl. 296-78.100.

Kishi, Toshiaki: *See—*
- Morioka, Minoru; Kishi, Toshiaki; and Yoshioka, Toshiharu, 4,638,881, Cl. 180-219.000.

Kishi, Yasuo; and Taniguchi, Hiroyuki, to Sanyo Electric Co., Ltd. Photovoltaic device. 4,663,494, 5-5-87, Cl. 136-244.000.

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Kishida, Akira: *See—*
- Ohta, Norio; Yanagishima, Fumiya; Kaihara, Toshikazu; Kishida, Akira; Sato, Kuniaki; and Ochiai, Masanobu, 4,713,154, Cl. 204-145.00R.

Kishida, Hiroo; and Takenaka, Hirofumi, to Harumoto Iron Works Co., Ltd. Apparatus for stretching, loosening, and fixing a wire member. 4,641,816, 2-10-87, Cl. 254-228.000.

Kishida, Hiroo; and Takenaka, Hirofumi, to Harumoto Iron Works Co., Ltd. Method of forming a composite structural member. 4,710,994, 12-8-87, Cl. 14-1.000.

Kishida, Hiroshi, to Kubota, Ltd. Method and apparatus for reaping level control. 4,663,712, 5-5-87, Cl. 364-424.000.

Kishida, Hiroshi: *See—*
- Inoue, Shinichi; Kishida, Hiroshi; and Oshima, Yasushi, 4,662,508, Cl. 198-601.000.

Kishida, Kazuo; Ueda, Kazuo; Kitai, Kiyokazu; and Matsumoto, Tsuruyoshi, to Mitsubishi Rayon Company, Ltd. Non-rigid vinyl chloride polymer resin composition. 4,663,382, 5-5-87, Cl. 524-504.000.

Kishida, Kazuo; Kawasaki, Hiroshi; and Shigemitsu, Hideyuki, to Mitsubishi Rayon Company Limited. Thermoplastic resin composition of a polycarbonate and vinyl aromatic-vinyl cyanide comonomers/diene rubber graft copolymer. 4,665,125, 5-12-87, Cl. 525-67.000.

Kishida, Kazuo; Ueda, Kazuo; and Kaneda, Masahiro, to Mitsubishi Rayon Co., Ltd. Vinyl chloride polymer resin composition. 4,699,948, 10-13-87, Cl. 525-85.000.

Kishida, Masatoshi: *See—*
- Miyaji, Kenichi; Toida, Shouji; Ito, Seiichi; Iwasaki, Kazunori; and Kishida, Masatoshi, 4,675,508, Cl. 219-437.000.

Kishida, Minoru: *See—*
- Ito, Kojiro; Murakami, Kunio; Kishida, Minoru; and Shimomura, Takehiko, 4,668,569, Cl. 428-323.000.
- Ito, Kojiro; Okamoto, Takashi; Murakami, Kunio; and Kishida, Minoru, 4,699,973, Cl. 528-335.000.

Kishida, Takao; and Fukaya, Takeo, to Toa Harbor Works, Co., Ltd. Method of and apparatus for measuring pile skin friction. 4,640,118, 2-3-87, Cl. 73-9.000.

Kishida, Yoshifumi; and Takeuchi, Masayoshi, to Sharp Corporation and Dainichi Shoji Co., Ltd. Method of washing and drying substrates. 4,643,774, 2-17-87, Cl. 134-1.000.

Kishida, Yoshifumi; and Takeuchi, Masayoshi, to Sharp Corporation; and Dainichi Shoji Co., Ltd. Apparatus for washing and drying substrates. 4,714,086, 12-22-87, Cl. 134-83.000.

Kishigami, Tomohisa: *See—*
- Ando, Noriyoshi; Mikuni, Hajime; Matsunaga, Mitsuru; Horie, Naoki; and Kishigami, Tomohisa, 4,682,228, Cl. 358-161.000.

Kishima, Masayoshi: *See—*
- Hori, Yasuaki; and Kishima, Masayoshi, 4,701,977, Cl. 16-266.000.

Kishima, Yoshio, to Dainippon Plastics Co., Ltd. Polycarbonate molded articles having excellent weather resistance and abrasion resistance and a process for the preparation thereof. 4,668,588, 5-26-87, Cl. 428-412.000.

Kishima, Yukihiro: *See—*

Miki, Tatsuya; Saito, Takashi; and Kishima, Yukihiro, 4,661,735, Cl. 310-112.000.

Kishimoto, Jotaro: *See—*

Shirai, Norio; Kishimoto, Jotaro; Noguchi, Yukihide; Ishibe, Hideomi; and Nagai, Kiyoshi, 4,662,915, Cl. 55-511.000.

Kishimoto, Keiichi; and Yoshitake, Makoto, to Toray Silicone Co., Ltd. Organopolysiloxane viscous coupler fluids. 4,637,889, 1-20-87, Cl. 252-75.000.

Kishimoto, Keiichi: *See—*

Iida, Kazumi; Ohata, Yosuke; Hyodo, Keiichiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, 4,636,057, Cl. 355-3.00R.

Iida, Kazumi; Ohata, Yosuke; Hyodo, Keiichiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, 4,666,283, Cl. 355-3.0DD.

Iida, Kazumi; Ohata, Yosuke; Hyodo, Keiichiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, 4,666,285, Cl. 355-8.000.

Iida, Kazumi; Ohata, Yosuke; Hyodo, Keiichiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, 4,714,338, Cl. 355-3.0FU.

Yoshitake, Makoto; and Kishimoto, Keiichi, 4,683,319, Cl. 556-425.000.

Yoshitake, Makoto; and Kishimoto, Keiichi, 4,696,756, Cl. 252-78.300.

Kishimoto, Masaru: *See—*

Imanishi, Kiyokazu; Naka, Hiroyuki; Sakurai, Yasuo; Ichiyanagi, Takashi; and Kishimoto, Masaru, 4,641,214, Cl. 360-130.240.

Kishimoto, Mikio: *See—*

Kitahata, Shinichi; and Kishimoto, Mikio, 4,677,024, Cl. 428-328.000.

Kitahata, Shinichi; and Kishimoto, Mikio, 4,705,718, Cl. 428-323.000.

Kishimoto, Shinichi: *See—*

Hyodo, Hiroshi; Yamada, Naoki; Iwase, Kenichi; and Kishimoto, Shinichi, 4,697,925, Cl. 356-339.000.

Kishimoto, Shoji; Matsuo, Taisuke; and Ochiai, Michihiko, to Takeda Chemical Industries, Ltd. 1-Sulfo-2-oxoazetidine derivatives and their production. 4,665,067, 5-12-87, Cl. 514-210.000.

Kishimoto, Shoji: *See—*

Matsuo, Taisuke, deceased; Ochiai, Michihiko; and Kishimoto, Shoji, 4,673,739, Cl. 540-355.000.

Matsuo, Taisuke, deceased; Ochiai, Michihiko; and Kishimoto, Shoji, 4,675,397, Cl. 540-355.000.

Ochiai, Michihiko; Kishimoto, Shoji; and Matsuo, Taisuke, deceased, 4,684,724, Cl. 540-355.000.

Kishimoto, Shunichi: *See—*

Hinotani, Katsuhiro; Hayama, Hajime; Kishimoto, Shunichi; Miwa, Takashi; Funazo, Yasuo; and Kouno, Kazuhiro, 4,654,559, Cl. 313-422.000.

Kishimoto, Tadamitsu: *See—*

Yamamura, Yuichi; Kishimoto, Tadamitsu; Nakai, Satoru; and Hirai, Yoshikatsu, 4,675,291, Cl. 435-68.000.

Kishimoto, Yasushi; and Masubuchi, Tetsuo, to Asahi Kasei Kogyo Kabushiki Kaisha. Olefin hydrogenation catalyst, process for hydrogenating polymers with the catalyst, and hydrogenated block copolymers produced by said processes. 4,673,714, 6-16-87, Cl. 525-314.000.

Kishimoto, Yoshio; and Shinoda, Hideho, to Matsushita Electric Industrial Co., Ltd. Electric warmer. 4,672,176, 6-9-87, Cl. 219-212.000.

Kishimoto, Yoshio, to Matsushita Electric Industrial Co., Ltd. Flexible thermosensitive wire. 4,698,488, 10-6-87, Cl. 219-549.000.

Kishimoto, Yoshio: *See—*

Yamamoto, Shuji; Kishimoto, Yoshio; Terakado, Seishi; and Shinoda, Hideho, 4,661,690, Cl. 219-549.000.

Kishine, Nobuyuki; Imamura, Tetsuya; Yamauchi, Michihide; and Ootani, Tsuyoshi, to Kao Corporation. Magnetic head comprised of an improved base substance for high density magnetic recording. 4,642,720, 2-10-87, Cl. 360-126.000.

Kishine, Nobuyuki; Imamura, Tetsuya; Minami, Hideyuki; and Yamauchi, Michihide, to Kao Corporation. Magnetic head for a perpendicular magnetic recording system. 4,644,431, 2-17-87, Cl. 360-122.000.

Kishine, Nobuyuki; Imamura, Tetsuya; Yamauchi, Michihide; and Takeuchi, Takashi, to KAO Corporation. Magnetic recording medium. 4,661,402, 4-28-87, Cl. 428-323.000.

Kishine, Nobuyuki; Imamura, Tetsuya; and Yamauchi, Michihide, to KAO Corporation. Substrate for a magnetic disc and method manufacturing same. 4,716,078, 12-29-87, Cl. 428-336.000.

Kishine, Toshiaki; Izawa, Hideo; and Ohba, Masaru, to Miyakoshi Printing Machinery Co., Ltd. Method of image registration in a web fed, multiple printing rotary press. 4,690,051, 9-1-87, Cl. 101-211.000.

Kishine, Toshiaki; Izawa, Hideo; and Ohba, Masaru, to Miyakoshi Printing Machinery Co., Ltd. Method of reconnecting drive shaft sections in phase in a web printing press having a print station and a perforating or like processing station. 4,706,566, 11-17-87, Cl. 101-426.000.

Kishino, Yasuichi: *See—*

Horiya, Keiichi; Takahama, Kazuhide; Kishino, Yasuichi; and Sato, Koichiro, 4,652,154, Cl. 400-120.000.

Kishiro, Nobuo: *See—*

Akiba, Yutaka; Hirota, Kazuo; Kishiro, Nobuo; Futami, Toshio; and Hamamoto, Tatsuo, 4,694,423, Cl. 365-2.000.

Kishiro, Osamu: *See—*

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Kishiro, Shigeru: *See—*

Nakamura, Katsunori; Kurano, Akira; Shiroyanagi, Yoshiro; and Kishiro, Shigeru, 4,688,221, Cl. 371-15.000.

Kishishita, Hiroshi: *See—*

Endo, Yoshihiro; Mizukami, Etsuo; Kishishita, Hiroshi; and Uede, Hisashi, 4,686,110, Cl. 427-38.000.

Kishita, Eiji: *See—*

Sasaki, Makoto; Yoshida, Jun; Shimizu, Yoshishige; Akazawa, Kiyoshi; Kishita, Eiji; and Hirata, Kaoru, 4,713,291, Cl. 428-373.000.

Kishita, Yoshihiro; Furukawa, Motoki; and Mitani, Tatsuro, to Kabushiki Kaisha Toshiba. Method of forming electrode pattern of semiconductor device. 4,650,543, 3-17-87, Cl. 156-643.000.

Kishita, Yoshihiro; Furukawa, Motoki; and Mitani, Tatsuro, to Kabushiki Kaisha Toshiba. Method for forming a conductor pattern using lift-off. 4,674,174, 6-23-87, Cl. 29-578.000.

Kishita, Yoshihiro: *See—*

Inoue, Kazuhiko; Mitani, Tatsuro; and Kishita, Yoshihiro, 4,695,869, Cl. 357-71.000.

Kishizawa, Yuji: *See—*

Tsukamoto, Teisuke; Morohoshi, Shinichi; Iida, Tetsuo; Kishizawa, Yuji; Kato, Shoichi; Suzuki, Toshio; and Ebihara, Toshio, 4,698,975, Cl. 60-721.000.

Kishizuka Kikai Kogyo Kabushiki Kaisha: *See—*

Kishizuka, Terumasa, 4,652,164, Cl. 401-258.000.

Kishizuka, Terumasa, to Kishizuka Kikai Kogyo Kabushiki Kaisha. Device to prevent the inadvertent coming-apart of the parts of a draftsman's ink writing instrument. 4,652,164, 3-24-87, Cl. 401-258.000.

Kishner, Stanley J.: *See—*

Benoit, Albert J.; Boden, Dudley M.; Decker, David G.; Kishner, Stanley J.; and Van Arsdell, Robert D., 4,706,206, Cl. 364-526.000.

Zelmanovic, David; and Kishner, Stanley J., 4,677,298, Cl. 250-341.000.

Kishton, Donald L., to Hydrafit, Inc. Reusable hose fitting. 4,634,153, 1-6-87, Cl. 285-255.000.

Kisida, Hirosi; Yamamoto, Haruyasu; and Yano, Toshihiko, to Sumitomo Chemical Company, Limited. Acaricidal and insecticidal substituted 1-phenylalkylbenzimidazoles. 4,663,339, 5-5-87, Cl. 514-394.000.

Kisida, Hirosi; Nishida, Sumio; and Hatakoshi, Makoto, to Sumitomo Chemical Company, Limited. Pyridyloxy derivatives and their use as insecticides. 4,714,706, 12-22-87, Cl. 514-345.000.

Kisida, Hirosi: *See—*

Tsushima, Kazunori; Matsuo, Noritada; Kisida, Hirosi; and Yano, Toshihiko, 4,664,698, Cl. 71-94.000.

Kisielowski, Lothar; Grafe, Ingomar; Liebenow, Walter; and Ahrens, Kurt H., to Ludwig Heumann & Co., GmbH. Process for the preparation of basically substituted phenylacetonitriles. 4,697,035, 9-29-87, Cl. 558-344.000.

Kising, Jurgen; and Bergerhausen, Stephan, to Krautkramer-Branson, Incorporated. Method and apparatus for hardness measurement. 4,646,571, 3-3-87, Cl. 73-573.000.

Kiskinova, Maya: *See—*

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Kisling, James W., III, to NL Industries, Inc. Method and apparatus for running long tools into and out of a pressurized enclosure. 4,681,168, 7-21-87, Cl. 166-381.000.

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Kiso, Yoshiaki; and Nakao, Kazuwa, to Shionogi & Co., Ltd. Polypeptide relating to α-hANP. 4,673,732, 6-16-87, Cl. 530-326.000.

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Iizuka, Kinji; Kamijo, Tetsuhide; Kubota, Tetsuhiro; Akahane, Kenji; Umeyama, Hideaki; and Kiso, Yoshiaki, 4,656,269, Cl. 544-139.000.

Iizuka, Kinji; Kamijo, Tetsuhide; Kubota, Tetsuhiro; Akahane, Kenji; Umeyama, Hideaki; and Kiso, Yoshiaki, 4,711,958, Cl. 544-139.000.

Kiss, Bela: *See—*

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Kiss, Gunter H. Apparatus for three-dimensional moldings. 4,648,934, 3-10-87, Cl. 156-443.000.

Kiss, Gunter H. Process for producing moldings with deformable decorative surface. 4,655,861, 4-7-87, Cl. 156-62.200.

Kiss, Gyorgy: *See—*

Balint, Sandor; Benczik nee Pasztor, Judit; Fodor, Jozsef; Horvath, Andras; Tomordi, Elemer; Soptei, Csaba; Karsai, Jozsef, Sebestyen, Endre; Gaal, Sandor; Gardi, Ivan; Kiss, Gyorgy; Papp, Andrass, and Csatlos, Imre, 4,668,274, Cl. 71-86.000.

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Kiss nee Deer, Aranka: *See*—

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Kiss, Zolton C., Jr. Rapid pistol sighting attachments. 4,683,662, 8-4-87, Cl. 33-233.000.

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Kissei Pharmaceutical Co., Ltd.: *See*—

Iizuka, Kinji; Kamijo, Tetsuhide; Kubota, Tetsuhiro; Akahane, Kenji; Umeyama, Hideaki; and Kiso, Yoshiaki, 4,656,269, Cl. 544-139.000.

Iizuka, Kinji; Kamijo, Tetsuhide; Kubota, Tetsuhiro; Akahane, Kenji; Umeyama, Hideaki; and Kiso, Yoshiaki, 4,711,958, Cl. 544-139.000.

Kissel, Karl-Heinz; and Oevermann, Siegfried, to Robert Krause GmbH & Co. KG. Device for binding holed sheets. 4,678,357, 7-7-87, Cl. 402-39.000.

Kissel, Karl-Heinz, to Robert Krause GmbH & Co. KG. Ring binder mechanism with mating rings. 4,690,580, 9-1-87, Cl. 402-39.000.

Kissel, Thomas R., to Eastman Kodak Company. Acid or acid salt wash of a metal chloride layer of an ion selective electrode. 4,695,362, 9-22-87, Cl. 204-419.000.

Kissel, Waldemar F., Jr. Comprehensive unit transportation system. 4,685,398, 8-11-87, Cl. 104-88.000.

Kissel, William R.; Sway-Tin, Min; Merchant, Daniel P.; and Frantz, Douglas C., to Chrysler Motors Corporation. Microcomputer controlled electronic alternator for vehicles. 4,659,977, 4-21-87, Cl. 320-64.000.

Kissick, Lloyd P. Balance of precision. 4,658,922, 4-21-87, Cl. 177-127.000.

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Beach, David L.; and Kissin, Yury V., 4,686,315, Cl. 585-513.000.

Kissinger, Curtis D., to Mechanical Technology Incorporated. Reflectivity compensated fiber optic sensor. 4,701,611, 10-20-87, Cl. 250-227.000.

Kissinger, Curtis D.: *See*—

Dorman, Richard A.; Kissinger, Curtis D.; Hoogenboom, Leo; Hull-Allen, Gregory; and Fallek, Samuel, 4,674,882, Cl. 356-373.000.

Hoogenboom, Leo; and Kissinger, Curtis D., 4,694,160, Cl. 250-227.000.

Kissinger, Paula A.: *See*—

Assini, John E.; and Kissinger, Paula A., 4,679,883, Cl. 439-607.000.

Kisslak, George E.: *See*—

Collins, John B.; and Kisslak, George E., 4,689,754, Cl. 364-497.000.

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Heller, Jurg; Kissling, Bruno; Robinson, Tibor, and Valenti, Salvatore, 4,645,511, Cl. 8-549.000.

Kist, Joost, to Futura Nova B.V. Device for obtaining a smear sample from a body cavity. 4,700,713, 10-20-87, Cl. 128-756.000.

Kistler, Francois, to Von Roll AG. Method for controlling and optimizing the operation of a perforated belt press for filtering slurry. 4,707,272, 11-17-87, Cl. 210-709.000.

Kistler, Walter P.: *See*—

Paros, Jerome M.; Kistler, Walter P.; and Busse, Donald W., 4,651,569, Cl. 73-704.000.

Kistner, Harold E., Sr. Fertilizer utilizing a chitin-producing fungus and method for its use. 4,670,037, 6-2-87, Cl. 71-1.000.

Kistner, Herbert: *See*—

Frischmann, Albert; Rieger, Johannes; Mermi, Kurt; Kistner, Herbert; and Zimmermann, E. Harald, 4,702,654, Cl. 411-31.000.

Kistner, John F., to Minnesota Mining and Manufacturing Company. Protective coating for phototools. 4,668,601, 5-26-87, Cl. 430-162.000.

Kistner, Joseph M.: *See*—

Hall, Spencer S.; and Kistner, Joseph M., 4,663,856, Cl. 33-373.000.

Kisu, Hiroki: *See*—

Tada, Hideki; Ito, Michio; Tanaka, Kazuki; Kume, Nobuyuki; Takei, Tetsuya; and Kisu, Hiroki, 4,674,865, Cl. 355-15.000.

Kisumi, Masahiko; and Takagi, Tsutomu, to Tanabe Seiyaku Co., Ltd. Method for producing L-aspartic acid. 4,656,136, 4-7-87, Cl. 435-253.000.

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Sinko, Tibor, 4,694,933, Cl. 182-128.000.

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Kit, Malon; and Kit, Saul, 4,711,850, Cl. 435-235.000.

Kita, Hideki: *See*—

Haruta, Kenyu; Wakata, Hitoshi; Sato, Yukio; Nagai, Haruhiko; Nakatani, Hajime; and Kita, Hideki, 4,686,682, Cl. 372-87.000.

Kita, Hiroyuki; Tokuhara, Masaharu; and Kawashima, Hiroyuki, to Sony Corporation. Digital scan converter. 4,668,974, 5-26-87, Cl. 358-11.000.

Kita, Jean C.: *See*—

Chrysostome, Gerard; Feugier, Alain; and Kita, Jean C., 4,674,564, Cl. 165-104.160.

Kita, Keiko: *See*—

Obayashi, Akira; Hiraoka, Nobutsugu; Kita, Keiko; and Nakajima, Hiroshi, 4,668,631, Cl. 435-199.000.

Kita, Ryusuke; Nishigaki, Satoshi; and Tsuchimoto, Shuhei, to Sharp Kabushiki Kaisha. Method of making photo-electric converting elements. 4,701,997, 10-27-87, Cl. 437-5.000.

Kita, Saburo: *See*—

Sauda, Kenzo; Yokota, Akitoshi; Yagi, Takuro; Kuribayashi, Hiroshi; Kita, Saburo; Shibata, Setsuo; and Ogawa, Hirofusa, 4,661,290, Cl. 252-626.000.

Kita, Sumio: *See*—

Kamada, Hiroshi; and Kita, Sumio, 4,686,704, Cl. 382-61.000.

Kita, Toru, to Nissan Motor Co., Ltd. Torque detector. 4,646,576, 3-3-87, Cl. 73-862.360.

Kita, Toru, to Nissan Motor Co., Ltd. Torque detector. 4,711,134, 12-8-87, Cl. 73-862.360.

Kita, Toru: *See*—

Yasuhara, Seishi; Kobayashi, Hiroshi; Kita, Toru; and Saito, Hideyuki, 4,646,070, Cl. 340-603.000.

Kita, Toshiaki; and Harada, Tatsuo, to Hitachi, Ltd. Method of producing varied line-space diffraction gratings. 4,690,506, 9-1-87, Cl. 350-320.000.

Kita, Yasuo, to Shimadzu Corporation. Method and apparatus for measuring a displacement of one member relative to another using a vernier with an even numbered difference of elements. 4,654,524, 3-31-87, Cl. 250-231.0SE.

Kita, Yasuo, to Shimadzu Corporation. Deceleration control system for automobiles. 4,696,380, 9-29-87, Cl. 192-4.00A.

Kita, Yasuo, to Shimadzu Corporation. Rotary fluid energy converter. 4,715,266, 12-29-87, Cl. 91-488.000.

Kita, Yasuo: *See*—

Morita, Hideyo; Akagawa, Tomohiko; and Kita, Yasuo, 4,694,031, Cl. 523-203.000.

Kita, Yasushi; and Moroi, Shiro, to Central Glass Company, Limited. Method of producing electric cell anode using powdery active material. 4,710,335, 12-1-87, Cl. 264-105.000.

Kitabatake, Shoichi; Yabe, Yuhiko; and Ami, Kazuhiko, to Hitachi, Ltd. Arm driving apparatus. 4,666,361, 5-19-87, Cl. 414-680.000.

Kitabayashi, Junichi, to Ricoh Company, Ltd. Focusing method for interferometer. 4,653,923, 3-31-87, Cl. 356-360.000.

Kitabayashi, Motoi; Hayashi, Takuo; Ozawa, Norihiko; Hirasawa, Yukihiro; and Miyazawa, Naotoshi, to Koa Corporation; Takahashi, Kiyoshi; and Konagai, Makoto. Electroluminescent device having an additional selenium layer. 4,647,813, 3-3-87, Cl. 313-509.000.

Kitada, Akira, to Fuji Photo Film Co., Ltd. Radiographic intensifying screen. 4,704,538, 11-3-87, Cl. 250-486.100.

Kitada, Katsuyoshi: *See*—

Kamiyama, Akira; Yamada, Masahide; Kitada, Katsuyoshi; Otuka, Masayoshi; and Kanematsu, Etsuro, 4,700,026, Cl. 200-19.0GR.

Kitada, Masahiro; Tanabe, Hideo; Shimizu, Noboru; Tsuchiya, Hiroshi; and Katsumata, Masao, to Hitachi, Ltd. Magnetoresistive element. 4,663,607, 5-5-87, Cl. 338-32.00H.

Kitada, Masahiro: *See*—

Kamo, Yoshihisa; Sato, Naoki; Kitada, Masahiro; and Takeura, Tooru, 4,663,684, Cl. 360-113.000.

Kitada, Taizou: *See*—

Katsumoto, Takehiko; Oota, Seiichi; and Kitada, Taizou, 4,646,689, Cl. 123-52.0MB.

Kitada, Tomowo, to Kabushiki Kaisha Komatsu Seisakusho. Apparatus for controlling an engine in a hydraulically driven vehicle. 4,638,779, 1-27-87, Cl. 123-385.000.

- Kitada, Yoshimi: *See—*
  - Okushima, Hiromi; Narimatsu, Akihiro; Kobayashi, Makio; Furuya, Rikizo; and Kitada, Yoshimi, 4,661,484, Cl. 514-242.000.
- Kitade, Nobumitsu, to Fuji Jukogyo Kabushiki Kaisha. System for controlling a transfer clutch of a four-wheel drive vehicle. 4,705,134, 11-10-87, Cl. 180-233.000.
- Kitade, Nobumitsu, to Fuji Jukogyo Kabushiki Kaisha. System for controlling a transfer clutch of a four-wheel drive vehicle. 4,708,227, 11-24-87, Cl. 192-0.055.
- Kitade, Nobumitsu, to Fuji Jukogyo Kabushiki Kaisha. System for controlling a transfer clutch of a four-wheel drive vehicle. 4,711,318, 12-8-87, Cl. 180-247.000.
- Kitado, Syoji: *See—*
  - Kambara, Yoshihiko; Asano, Shiro; Isozaki, Wataru; Kitado, Syoji; and Yamaguchi, Masao, 4,670,590, Cl. 564-206.000.
- Kitagawa, Atsushi: *See—*
  - Kuwabara, Hideki; Kitagawa, Atsushi; and Sudo, Yoshimi, 4,695,593, Cl. 521-60.000.
- Kitagawa, Hiroki: *See—*
  - Aoki, Yoshiaki; Kayukawa, Naoyuki; Yamazaki, Hatsuo; Ozawa, Yasutomo; and Kitagawa, Hiroki, 4,707,147, Cl. 374-161.000.
- Kitagawa, Hironobu: *See—*
  - Kobayashi, Takuma; Kitagawa, Hironobu; and Kobayashi, Shigeo, 4,670,510, Cl. 525-89.000.
  - Kobayashi, Takuma; Kitagawa, Hironobu; Kaneshige, Noritsugu; and Makimura, Osamu, 4,680,345, Cl. 525-437.000.
- Kitagawa, Hisao; and Inoue, Yasuo, to Olympus Optical Co., Ltd. Photographing indication device for microscopes. 4,643,550, 2-17-87, Cl. 354-79.000.
- Kitagawa, Hisashi: *See—*
  - Ginnaga, Akihiro; Koba, Hiroshi; Sakuma, Shin; Kitagawa, Hisashi; Yamada, Akira; and Suzuki, Yoji, 4,687,738, Cl. 435-68.000.
  - Sakuma, Shin; Sakamoto, Kuniaki; Kitagawa, Hisashi; Sakoh, Mitsuo; and Nonaka, Saneo, 4,704,274, Cl. 424-88.000.
- Kitagawa Industries Co., Ltd.: *See—*
  - Fujimoto, Nobuaki, 4,712,939, Cl. 403-24.000.
  - Hayashi, Yoshitoki, 4,674,910, Cl. 403-408.100.
  - Matsui, Kazuhiro, 4,640,639, Cl. 403-24.000.
  - Matsui, Kazuhiro; and Yagi, Masaru, 4,646,995, Cl. 248-56.000.
  - Matsui, Kazuhiro; Tanigawa, Mitsuru; and Sugiura, Haruyuki, 4,697,303, Cl. 16-112.000.
  - Nakano, Yoshihito, 4,665,588, Cl. 24-16.0PB.
  - Sugiura, Haruyuki, 4,646,383, Cl. 16-225.000.
  - Sugiura, Haruyuki, 4,669,688, Cl. 248-74.200.
  - Yagi, Masaru, 4,635,325, Cl. 24-453.000.
  - Yagi, Masaru, 4,635,326, Cl. 24-453.000.
  - Yagi, Masaru, 4,650,267, Cl. 339-17.0CF.
  - Yagi, Masaru, 4,667,270, Cl. 361-380.000.
  - Yagi, Masaru, 4,684,093, Cl. 248-201.000.
- Kitagawa Iron Works Co., Ltd.: *See—*
  - Nobukawa, Akira; Sawaguchi, Tatsue; and Kuroki, Yoshihiro, 4,696,513, Cl. 279-121.000.
- Kitagawa, Jiro; and Oki, Shuichiro, to NGK Insulators, Ltd. Process of manufacturing oxygen sensor. 4,650,697, 3-17-87, Cl. 427-125.000.
- Kitagawa, Katsuichi; and Tamura, Kouichi, to Toray Industries, Inc. Method and apparatus for determining position of points on article. 4,693,608, 9-15-87, Cl. 356-394.000.
- Kitagawa, Katsunosuke: *See—*
  - Cope, Charles S.; Kitagawa, Katsunosuke; and Konabe, Kazuo, 4,639,337, Cl. 260-408.000.
- Kitagawa, Katsutoshi, to Toyota Jidosha Kabushiki Kaisha. V-type four stroke engine with counter rotating balance weights canceling out first order imbalance moments of reciprocating and of rotational motion. 4,644,916, 2-24-87, Cl. 123-192.00B.
- Kitagawa, Kazumi; and Fujiwara, Atushi, to Ishida Scales Manufacturing Company, Ltd. Compact combinational weighing system. 4,662,462, 5-5-87, Cl. 177-25.000.
- Kitagawa, Kazumi: *See—*
  - Nakagawa, Yukio; Kakita, Yukio; and Kitagawa, Kazumi, 4,683,966, Cl. 177-25.000.
- Kitagawa, Keishi; and Abe, Hisamasa, to Fuji Photo Film Co., Ltd. Photographic polyethylene coated paper support. 4,699,874, 10-13-87, Cl. 430-538.000.
- Kitagawa, Keisuke, to Noazi Kasai. Disposable beverage brewer. 4,715,271, 12-29-87, Cl. 99-306.000.
- Kitagawa, Kinya: *See—*
  - Kojima, Noboru; and Kitagawa, Kinya, 4,653,982, Cl. 416-44.000.
- Kitagawa, Kunio: *See—*
  - Uchikawa, Tadao; and Kitagawa, Kunio, 4,675,568, Cl. 310-328.000.
- Kitagawa, Masaru: *See—*
  - Ogami, Nobutoshi; and Kitagawa, Masaru, 4,693,211, Cl. 118-725.000.
- Kitagawa, Masatoshi: *See—*
  - Koga, Masataka; Kitagawa, Masatoshi; and Oishi, Konosuke, 4,645,341, Cl. 356-307.000.
- Kitagawa, Nozomi: *See—*
  - Hashikawa, Atsushi; Kitagawa, Nozomi; and Kikuchi, Tetsuro, 4,704,999, Cl. 123-299.000.
- Kitagawa, Osamu, to Dainippon Screen Mfg. Co., Ltd. Method of recording register marks. 4,652,914, 3-24-87, Cl. 358-75.000.
- Kitagawa, Osamu, to Dainippon Screen Manufacturing Co., Ltd. Method of recording register marks. 4,679,071, 7-7-87, Cl. 358-75.000.
- Kitagawa, Sadao; Yokoi, Takashi; and Kaito, Mitsumasa, to Research Association for Utilization of Light Oil. 2,5-diamino-1,4-dioxane derivatives and process for production thereof. 4,677,213, 6-30-87, Cl. 549-377.000.
- Kitagawa, Shunji: *See—*
  - Ikeda, Hiroyuki; Matsumoto, Seikichi; Kitagawa, Shunji; Inagaki, Takefumi; and Sebata, Ichiro, 4,639,070, Cl. 350-3.710.
  - Yamazaki, Kozo; Yamagishi, Fumio; Ikeda, Hiroyuki; Inagaki, Takefumi; Sebata, Ichiro; Kitagawa, Shunji; Kato, Masayuki; and Ichikawa, Toshiyuki, 4,655,541, Cl. 350-3.710.
- Kitagawa, Tadao; Kosuge, Yutaka; and Noda, Yoichiro, to Honda Giken Kogyo Kabushiki Kaisha; and Kabushiki Kaisha Honda Rokku. Theftproof device. 4,639,713, 1-27-87, Cl. 340-63.000.
- Kitagawa, Takashi: *See—*
  - Tanaka, Takanori; and Kitagawa, Takashi, 4,700,219, Cl. 358-29.000.
- Kitagawa, Tohru: *See—*
  - Suzuki, Seiji; Nishiyama, Yoshihisa; and Kitagawa, Tohru, 4,711,314, Cl. 177-164.000.
  - Ushijima, Yasuhiro; Kitagawa, Tohru; Ohyoshi, Sadao; and Nishiyama, Yoshihisa, 4,674,342, Cl. 73-862.650.
- Kitagawa, Tsunehiro, to Dainippon Pharmaceutical Co., Ltd. Agent for quantitative determination of microorganisms. 4,693,968, 9-15-87, Cl. 435-7.000.
- Kitagawa, Tsuneo: *See—*
  - Sugiura, Masamichi; and Kitagawa, Tsuneo, 4,646,330, Cl. 377-15.000.
- Kitagawa, Yoshiaki: *See—*
  - Iwata, Hideo; Kitagawa, Yoshiaki; Koshijima, Jiro; and Tachibana, Tetsuya, 4,646,815, Cl. 165-56.000.
- Kitagishi, Nozomu; Momiyama, Kikuo; Ikemori, Keiji; Takahashi, Sadatoshi; and Tanaka, Tsunefumi, to Canon Kabushiki Kaisha. High range zoom lens. 4,639,096, 1-27-87, Cl. 350-427.000.
- Kitagishi, Nozomu, to Canon Kabushiki Kaisha. Zoom lens of reduced total length. 4,659,189, 4-21-87, Cl. 350-427.000.
- Kitagishi, Nozomu; Takahashi, Sadatoshi; Ikemori, Keiji; Momiyama, Kikuo; and Tanaka, Tsunefumi, to Canon Kabushiki Kaisha. High range zoom lens. 4,695,133, 9-22-87, Cl. 350-427.000.
- Kitagishi, Nozomu: *See—*
  - Matsushita, Takashi; Takahashi, Sadatoshi; Ikemori, Keiji; Kitagishi, Nozomu; Tanaka, Tsunefumi; and Momiyama, Kikuo, 4,711,534, Cl. 350-426.000.
  - Suzuki, Takashi; Matsumura, Susumu; and Kitagishi, Nozomu, 4,650,988, Cl. 250-216.000.
  - Tanaka, Tsunefumi; Ikemori, Keiji; Kitagishi, Nozomu; Takahashi, Sadatoshi; and Momiyama, Kikuo, 4,666,257, Cl. 350-427.000.
- Kitagishi, Tomoji; Sasaki, Akira; Hakoyama, Akiyoshi; Furukawa, Shigetaka; Suzaki, Masafumi; Kobayashi, Ryooichi; Mikami, Katsumasa; Takahashi, Yoshihito; Nagano, Yousuke; and Honma, Takeo, to Hitachi, Ltd. Thermal print head. 4,707,708, 11-17-87, Cl. 346-76.0PH.
- Kitagishi, Tomoji: *See—*
  - Suzaki, Masafumi; Mikami, Katsumasa; Nagano, Yousuke; and Kitagishi, Tomoji, 4,641,149, Cl. 346-76.0PH.
- Kitaguchi, Hiroshi; and Kato, Masatoshi, to Fuji Photo Film Co., Ltd. Process for image formation comprising a heating step. 4,639,408, 1-27-87, Cl. 430-351.000.
- Kitaguchi, Hiroshi; and Kato, Masatoshi, to Fuji Photo Film Co., Ltd. Acid precursor. 4,670,373, 6-2-87, Cl. 430-353.000.
- Kitaguchi, Hiroshi; Kato, Masatoshi; Sato, Kozo; Takeuchi, Masashi; and Tsukase, Masaaki, to Fuji Photo Film Co., Ltd. Heat developable light-sensitive material with development inhibitor releaser. 4,678,735, 7-7-87, Cl. 430-203.000.
- Kitaguchi, Hiroshi; Takeuchi, Masashi; Sato, Kozo; Tsukase, Masaaki; and Kato, Masatoshi, to Fuji Photo Film Co., Ltd. Image forming method including heating step. 4,678,739, 7-7-87, Cl. 430-353.000.
- Kitaguchi, Hiroshi: *See—*
  - Kato, Masatoshi; and Kitaguchi, Hiroshi, 4,656,126, Cl. 430-559.000.
  - Sato, Kozo; Kitaguchi, Hiroshi; and Hirai, Hiroyuki, 4,675,277, Cl. 430-448.000.
  - Sato, Kozo; Kitaguchi, Hiroshi; Takeuchi, Masashi; Tsukase, Masaaki; and Kato, Masatoshi, 4,696,887, Cl. 430-203.000.
  - Sawada, Satoru; Naito, Hideki; and Kitaguchi, Hiroshi, 4,643,964, Cl. 430-523.000.
  - Tsukase, Masaaki; Sato, Kozo; Kitaguchi, Hiroshi; Takeuchi, Masashi; and Kato, Masatoshi, 4,695,525, Cl. 430-151.000.
- Kitaguchi, Hisao, to New Cosmos Electric Co., Ltd. Semiconductor type gas sensor having two terminals. 4,688,014, 8-18-87, Cl. 338-34.000.
- Kitaguchi, Sam S., to Garrett Corporation, The. Inertial speed control coupling for a gas turbine engine. 4,674,276, 6-23-87, Cl. 60-39.163.
- Kitaguchi, Tadashi: *See—*
  - Ueda, Ikuo; Kobayashi, Masakazu; and Kitaguchi, Tadashi, 4,703,046, Cl. 514-202.000.
- Kitaguchi, Takahisa, to NEC Corporation. Integratable squarewave pulse oscillator. 4,639,692, 1-27-87, Cl. 331-111.000.
- Kitahama, Masanori: *See—*
  - Yarita, Ikuo; Kitahama, Masanori; and Sasaki, Toru, 4,703,641, Cl. 72-247.000.
- Kitahara, Akira: *See—*
  - Akiyama, Shigeru; Ueno, Hidetoshi; Imagawa, Koji; Kitahara, Akira; Nagata, Sumio; Morimoto, Kazuo; Nishikawa, Tooru; and Itoh, Masao, 4,713,277, Cl. 428-131.000.
- Kitahara, Ayao; and Konno, Kijiro, to Ricoh Co., Ltd. Fine particle substance-containing non-aqueous dispersions. 4,664,841, 5-12-87, Cl. 252-309.000.

Kitahara, Kazuki: *See—*
  Enzaki, Yoshiki; Kitahara, Kazuki; Terasaka, Satoru; Mori, Kenji; and Kimura, Takeshi, 4,695,247, Cl. 431-352.000.

Kitahara, Kiyoshi: *See—*
  Fukuzawa, Takahiko; and Kitahara, Kiyoshi, 4,691,364, Cl. 382-41.000.

Kitahara, Kohei: *See—*
  Nakagawa, Hitoshi; and Kitahara, Kohei, 4,691,911, Cl. 271-9.000.

Kitahara, Makoto: *See—*
  Katagiri, Kazuhara; Oguchi, Yoshihiro; Ohtake, Takeshi; Arao, Kozo; Kitahara, Makoto; and Takasu, Yoshio, 4,673,630, Cl. 430-72.000.

Kitahara, Nagako. Coagulated food made from brown algae. 4,690,828, 9-1-87, Cl. 426-575.000.

Kitahara, Nobuko; Takamatsu, Osamu; Kaneko, Tetsuya; and Sugata, Masao, to Canon Kabushiki Kaisha. Electric circuit member and liquid crystal display device using said member. 4,636,038, 1-13-87, Cl. 350-339.00R.

Kitahara, Seizaburo: *See—*
  Maeda, Hironobu; Kitahara, Seizaburo; Yosimura, Haruo; Torawaki, Takao; Yaegasi, Takasi; and Yamaoka, Isao, 4,677,934, Cl. 118-58.000.

Kitahara, Shizuo; Hirokawa, Yoshitsugu; Kawada, Haruki; Fujii, Toshihiro; Sugi, Nagatoshi; Hasegawa, Hiroaki; and Yoshioka, Akira, to Nippon Zeon Co., Ltd. Process for addition reaction of unsaturated organic compounds. 4,654,435, 3-31-87, Cl. 560-61.000.

Kitahara, Shizuo; Hirokawa, Yoshitsugu; and Fujii, Toshihiro, to Nippon Zeon Co., Ltd. Method for modifying rubbers. 4,677,153, 6-30-87, Cl. 524-552.000.

Kitahara, Shizuo; and Nakakawaji, Fujito, to Nippon Zeon Co., Ltd. Method for improving rubbers. 4,704,427, 11-3-87, Cl. 524-531.000.

Kitahara, Takeshi, to Fujitsu Limited. Loop transmission system having automatic loop configuration control means. 4,710,915, 12-1-87, Cl. 370-16.000.

Kitahara, Toshihiro; Sakai, Yoshiaki; Kobayashi, Kou; and Kikuchi, Satoru, to Teac Corporation. Recording disk centering and clamping apparatus. 4,709,283, 11-24-87, Cl. 360-99.000.

Kitahara, Toshihiro: *See—*
  Noda, Yasushi; Kitahara, Toshihiro; and Tsuyuguchi, Hiroshi, 4,688,131, Cl. 360-137.000.
  Noda, Yasushi; and Kitahara, Toshihiro, 4,692,828, Cl. 360-97.000.

Kitahara, Tsuyoshi, to Nissan Motor Co., Ltd. Air/fuel ratio detecting device and control system using same. 4,658,790, 4-21-87, Cl. 123-440.000.

Kitahata, Koujiro: *See—*
  Fujiwara, Kazuo; Toru, Yasushi; Kitahata, Koujiro; Inoue, Tsuyoshi; and Yokoyama, Tadamasa, deceased, 4,689,198, Cl. 420-47.000.

Kitahata, Shinichi; and Kishimoto, Mikio, to Hitachi Maxell, Ltd. Magnetic recording medium. 4,677,024, 6-30-87, Cl. 428-328.000.

Kitahata, Shinichi; and Kishimoto, Mikio, to Hitachi Maxell, Ltd. Magnetic recording medium. 4,705,718, 11-10-87, Cl. 428-323.000.

Kitai, Adrian H.; and Wolga, George J., to Cornell Research Foundation, Inc. Self-scanning electroluminescent display. 4,646,079, 2-24-87, Cl. 340-781.000.

Kitai, Akira: *See—*
  Takeda, Kyoji; and Kitai, Akira, 4,690,346, Cl. 242-56.00R.

Kitai, Kiyokazu: *See—*
  Kamata, Kazumasa; Ueda, Kazuo; and Kitai, Kiyokazu, 4,696,973, Cl. 525-71.000.
  Kishida, Kazuo; Ueda, Kazuo; Kitai, Kiyokazu; and Matsumoto, Tsuruyoshi, 4,663,382, Cl. 524-504.000.

Kitai, Makoto; and Omori, Takashi, to Kabushiki Kaisha Shashin Kogyo; and Dainippon Screen Mfg. Co., Ltd. Apparatus for transporting a web of photosensitive material in a photo printer. 4,655,583, 4-7-87, Cl. 355-29.000.

Kitai, Makoto; and Omori, Takashi, to Kabushiki Kaisha Shashin Kogyo; and Dainippon Screen Mfg. Co., Ltd. Photographic contact printing apparatus for duplicating of original color picture. 4,674,867, 6-23-87, Cl. 355-78.000.

Kitajima, Akira: *See—*
  Arai, Yoshio; Kitajima, Akira; and Akiba, Kouji, 4,706,760, Cl. 169-61.000.

Kitajima, Eiji: *See—*
  Noguchi, Kosaku; Tanaka, Honami; Kumura, Yukimasa; Yamazaki, Heima; Kitajima, Eiji; and Sunada, Tomonori, 4,640,822, Cl. 422-111.000.

Kitajima, Katsuhiro: *See—*
  Oshima, Nobuyasu; Sato, Mikio; Kitajima, Katsuhiro; and Nakashima, Akifumi, 4,651,660, Cl. 112-225.000.

Kitajima, Katsuo: *See—*
  Tamura, Yoshikazu; and Kitajima, Katsuo, 4,703,190, Cl. 307-2.000.

Kitajima, Masao: *See—*
  Sekine, Takasi; Yazawa, Kenichiro; and Kitajima, Masao, 4,647,431, Cl. 422-63.000.

Kitajima, Nobuaki, to Tokyo Kogaku Kikai Kabushiki Kaisha. Binocular microscope including a detachable optical deflecting unit. 4,652,094, 3-24-87, Cl. 350-514.000.

Kitajima, Nobuaki: *See—*
  Nishimura, Shinichi; and Kitajima, Nobuaki, 4,657,357, Cl. 350-516.000.

Kitajima, Tadayuki: *See—*
  Ueda, Noriyoshi; and Kitajima, Tadayuki, 4,660,957, Cl. 355-3.0SH.

Kitajima, Tomoya: *See—*
  Araki, Kunihiko; Kitajima, Tomoya; Serikawa, Yoshio; Terui, Hiroshi; Koyama, Kenji; and Kobayashi, Mikio, 4,653,885, Cl. 354-173.100.

Kitakata, Makoto, to NEC Corporation. Semiconductor device having registration mark for electron beam exposure. 4,642,672, 2-10-87, Cl. 357-40.000.

Kitakaze, Seiji: *See—*
  Tsuzurahara, Mamoru; Baba, Hidetsuyo; and Kitakaze, Seiji, 4,684,845, Cl. 313-341.000.

Kitakizaki, Kaoru: *See—*
  Kashiwagi, Yoshiyuki; Noda, Yasushi; and Kitakizaki, Kaoru, 4,640,999, Cl. 200-144.00B.
  Kashiwagi, Yoshiyuki; Noda, Yasushi; and Kitakizaki, Kaoru, 4,659,885, Cl. 200-144.00B.
  Kashiwagi, Yoshiyuki; Noda, Yasushi; and Kitakizaki, Kaoru, 4,686,338, Cl. 200-264.000.

Kitakoga, Hidetoshi: *See—*
  Yano, Isamu; Fujita, Ryoji; and Kitakoga, Hidetoshi, 4,633,734, Cl. 74-552.000.

Kitamaki, Hisayo: *See—*
  Suzuki, Takashi; Odagiri, Masaru; Kai, Yoshiaki; Kitamaki, Hisayo; and Tomago, Akio, 4,647,507, Cl. 428-421.000.

Kitami, Kunko: *See—*
  Takeuchi, Seizi; Kamo, Tomoichi; Horiba, Tatsuo; Kitami, Kunko; Mori, Toshikatsu; Kahara, Toshiki; Imahashi, Jinichi; Honji, Akio; Takeuchi, Masato; and Tamura, Kohki, 4,643,957, Cl. 429-41.000.

Kitamori, Nobuyuki; Maeno, Masaya; and Izuhara, Seiji, to Takeda Chemical Industries, Ltd. Granules of thiamine salt and the production thereof. 4,702,919, 10-27-87, Cl. 424-480.000.

Kitamoto, Tatsuji; and Akashi, Goro, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,666,773, 5-19-87, Cl. 428-332.000.

Kitamoto, Tatsuji: *See—*
  Asai, Takamitsu; Akashi, Goro; Kitamoto, Tatsuji; Chikamasa, Hiroshi; and Sato, Tsunehiko, 4,678,682, Cl. 427-48.000.
  Masaki, Kouichi; and Kitamoto, Tatsuji, 4,713,261, Cl. 427-129.000.
  Shirahata, Ryuji; Kitamoto, Tatsuji; and Arai, Yoshihiro, 4,700,198, Cl. 346-1.100.

Kitamoto, Tomoyoshi: *See—*
  Kobayashi, Takeshi; Ishii, Ryouichi; and Kitamoto, Tomoyoshi, 4,679,135, Cl. 364-146.000.

Kitamoto, Yoshito: *See—*
  Sakai, Yusaku; Kitamoto, Yoshito; Ohtaki, Shinji; Tamaki, Yasushi; and Nagai, Hikaru, 4,664,963, Cl. 428-142.000.
  Sakai, Yusaku; Kitamoto, Yoshito; Ohtaki, Shinji; Tamaki, Yasushi; and Nagai, Hikaru, 4,675,075, Cl. 156-650.000.

Kitamura, Akihiko, to Kojima Press Industry Co., Ltd. Pneumatic control device for controlling pneumatic system. 4,688,602, 8-25-87, Cl. 137-637.100.

Kitamura, Goro: *See—*
  Ito, Tokuhisa; Kitamura, Goro; Horiuchi, Hidenori; and Aoyama, Masaaki, 4,650,335, Cl. 356-398.000.

Kitamura, Hajime: *See—*
  Yokota, Tohru; Inoue, Kaname; Kitamura, Hajime; Isobe, Kenichi; Ichinohe, Shoji; and Yanagisawa, Takeji, 4,665,145, Cl. 526-279.000.

Kitamura, Hideaki; and Yamada, Mitsuhiko, to Dainippon Screen Mfg. Co., Ltd. Method and apparatus of scanning and recording image. 4,679,095, 7-7-87, Cl. 358-280.000.

Kitamura, Hideaki; Fujiki, Syogo; and Yamada, Mitsuhiko, to Dainippon Screen Mfg. Co., Ltd. Method for reproducing picture image. 4,683,500, 7-28-87, Cl. 358-280.000.

Kitamura, Hideaki, to Dainippon Screen Mfg. Co., Ltd. Apparatus for smoothing jagged border lines. 4,703,363, 10-27-87, Cl. 358-284.000.

Kitamura, Hideaki: *See—*
  Yamada, Mitsuhiko; and Kitamura, Hideaki, 4,649,500, Cl. 364-518.000.
  Yamada, Mitsuhiko; and Kitamura, Hideaki, 4,670,793, Cl. 358-284.000.
  Yamada, Mitsuhiko; and Kitamura, Hideaki, 4,673,989, Cl. 358-287.000.
  Yamada, Mitsuhiko; Fujisawa, Kyohei; and Kitamura, Hideaki, 4,692,796, Cl. 358-76.000.

Kitamura, Hirokazu: *See—*
  Takahashi, Hiroshi; Uwano, Tomoki; Machida, Takashi; and Kitamura, Hirokazu, 4,656,441, Cl. 333-33.000.

Kitamura, Hironori; and Noma, Kanji, to Nippon Foil Manufacturing Co., Ltd. Composite aluminum sheet for presensitized lithographic printing plate comprising a support having specified center line average roughness. 4,680,250, 7-14-87, Cl. 430-302.000.

Kitamura, Hironori: *See—*
  Yokota, Yuzo; Noma, Kanji; Kawase, Kiyotaka; Kitamura, Hironori; and Kamigaito, Masayuki, 4,680,322, Cl. 523-416.000.

Kitamura, Ikuo: *See—*
  Okamura, Kazuo; Kitamura, Ikuo; Aomi, Hideki; Koyama, Satoshi; and Tokunaga, Katsushi, 4,668,414, Cl. 252-62.510.

Kitamura Iron Works, Ltd.: *See—*
  Nakanishi, Yoshiaki, 4,658,471, Cl. 16-224.000.

Kitamura, Jiro: *See—*
  Kameyama, Tsutomu; Kitamura, Jiro; Takigawa, Tetsuo; and Mizuno, Masao, 4,703,061, Cl. 514-551.000.

Kitamura, Keisuke, to Taishi Foods Company Ltd. Process for producing new variety of odorless soybeans. 4,677,247, 6-30-87, Cl. 800-1.000.

Kitamura, Kenichi: *See—*

Akiyama, Naoki; Kitamura, Kenichi; and Kotake, Eiichi, 4,656,377, Cl. 310-68.00R.

Kitamura, Koichi; Swartz, Louis D.; Catchpole, Clive; and Yaniv, Zvi, to Ovonic Imaging Systems, Inc. Photosensitive pixel with exposed blocking element. 4,714,836, 12-22-87, Cl. 250-578.000.

Kitamura, Koichiro, to Kitamura Machinery Co., Ltd. Automatic tool changer. 4,696,091, 9-29-87, Cl. 29-568.000.

Kitamura, Koichiro, to Kitamura Machinery Co., Ltd. XY table. 4,713,887, 12-22-87, Cl. 33-1.00M.

Kitamura Machinery Co., Ltd.: *See—*

Kitamura, Koichiro, 4,696,091, Cl. 29-568.000.

Kitamura, Koichiro, 4,713,887, Cl. 33-1.00M.

Kitamura, Makoto; and Yamaguchi, Kiyoshi, to Tokico Ltd. Suspension device. 4,697,796, 10-6-87, Cl. 267-35.000.

Kitamura, Makoto: *See—*

Tanabe, Hisao; Takahashi, Masaru; Ozawa, Hiroyasu; Machida, Shoichi; and Kitamura, Makoto, 4,683,993, Cl. 188-321.110.

Kitamura, Masaharu, to Kuroi Garasu Kougyo Co., Ltd. Decorative hanging lighting apparatus. 4,661,891, 4-28-87, Cl. 362-219.000.

Kitamura, Masami: *See—*

Nagasaki, Haruki; Kitamura, Masami; and Iguchi, Yoji, 4,649,642, Cl. 30-34.100.

Kitamura, Masato: *See—*

Tanaka, Teruo; Tanaka, Teruya; and Kitamura, Masato, 4,695,484, Cl. 427-245.000.

Kitamura, Masatsugu; Wagatsuma, Kikuji; Watanabe, Tokumi; Yamashita, Naoki; and Yoshida, Hiroshi, to Victor Company of Japan, Ltd. Periodic waveform generation by nonrecyclically reading lower frequency audio samples and recyclically reading higher frequency audio samples. 4,638,710, 1-27-87, Cl. 84-1.260.

Kitamura, Masatsugu; Tanaka, Mitsuaki; and Takekura, Hiroyuki, to Victor Company of Japan, Limited. Method and system for decoding a digital signal using a variable frequency low-pass filter. 4,673,916, 6-16-87, Cl. 340-347.0SH.

Kitamura, Masatsugu; Wagatsuma, Kikuji; Watanabe, Tokumi; Yamashita, Naoki; and Yoshida, Hiroshi, to Victor Company of Japan. Periodic wave form generation by recyclically reading amplitude and frequency equalized digital signals. 4,683,795, 8-4-87, Cl. 84-1.260.

Kitamura, Masatsugu; Wagatsuma, Kikuji; Watanabe, Tokumi; Yamashita, Naoki; and Yoshida, Hiroshi, to Victor Company of Japan, Ltd. Aperiodic waveform generation using stored markers identifying scaled waveform sections. 4,701,872, 10-20-87, Cl. 364-718.000.

Kitamura, Mineo: *See—*

Nagashima, Yoichi; Kondo, Tatsunori; Takauji, Kiyomi; and Kitamura, Mineo, 4,635,517, Cl. 84-1.010.

Nagashima, Yoichi; Kondo, Tatsunori; Takauji, Kiyomi; Kitamura, Mineo; Matsushima, Tadashi; Nagashima, Eiji; and Mizoguchi, Masafumi, 4,638,706, Cl. 84-1.010.

Nagashima, Yoichi; Kondo, Tatsunori; Takauji, Kiyomi; Kitamura, Mineo; Matsushima, Tadashi; Nagashima, Eiji; and Mizoguchi, Masafumi, 4,638,709, Cl. 84-1.190.

Nagashima, Yoichi; Kondo, Tatsunori; Takauji, Kiyomi; Kitamura, Mineo; Matsushima, Tadashi; Nagashima, Eiji; and Mizoguchi, Masafumi, 4,646,611, Cl. 84-1.190.

Kitamura, Mitsutoshi: *See—*

Shirai, Hirofusa; Hanabusa, Kenji; Kitamura, Mitsutoshi; Hojo, Nobumasa; and Hirabaru, Okikazu, 4,663,084, Cl. 252-600.000.

Kitamura, Noboru: *See—*

Shoji, Masao; Uchida, Mikio; and Kitamura, Noboru, 4,635,771, Cl. 192-41.00A.

Kitamura, Nobuo: *See—*

Shimada, Satoshi; Kitamura, Nobuo; Shikakura, Kunio; and Maeda, Namio, 4,683,491, Cl. 358-56.000.

Kitamura, Rou: *See—*

Hattori, Torao; Takagi, Yasushi; Tange, Akira; Umetsu, Chiharu; Kudo, Osamu; Kurimoto, Kiyoshi; and Kitamura, Rou, 4,698,050, Cl. 474-242.000.

Kitamura, Ryoichi: *See—*

Ohara, Shuzo; and Kitamura, Ryoichi, 4,702,874, Cl. 264-171.000.

Kitamura, Satoru: *See—*

Kunugihara, Hiromu; Shimatani, Ryoichi; Kitamura, Satoru; Okamura, Kazuo; and Kanzaki, Nobuyoshi, 4,671,858, Cl. 204-129.750.

Kitamura, Shigehiro: *See—*

Koshizuka, Kunihiro; Kitamura, Shigehiro; Abe, Takao; Nakamura, Masaki; Ishii, Fumio; and Hotta, Yuji, 4,643,917, Cl. 427-256.000.

Koshizuka, Kunihiro; Abe, Takao; Kitamura, Shigehiro; and Watanabe, Hiroshi, 4,673,618, Cl. 428-336.000.

Kitamura, Shigeto: *See—*

Teranishi, Masayuki; Suzuki, Koji; Kase, Hiroshi; Kitamura, Shigeto; Shuto, Katsuichi; and Omori, Kenji, 4,657,916, Cl. 514-312.000.

Kitamura, Shiro: *See—*

Shiraishi, Takashi; and Kitamura, Shiro, 4,687,328, Cl. 356-384.000.

Kitamura, Shirou: *See—*

Shiraishi, Takashi; and Kitamura, Shirou, 4,657,395, Cl. 356-385.000.

Kitamura, Shuji; Nakae, Kiyohiko; Ogawa, Tadatoshi; Yoshida, Teruaki; and Sadatoshi, Hajime, to Sumitomo Chemical Company, Limited. Packaging shrink film. 4,670,529, 6-2-87, Cl. 526-348.100.

Kitamura, Shuji; Nakae, Kiyohiko; Ogawa, Tadatoshi; Yoshida, Teruaki; and Sadatoshi, Hajime, to Sumitomo Chemical Company, Limited. Laminated polypropylene film. 4,675,247, 6-23-87, Cl. 428-349.000.

Kitamura, Shunji, to Kabushiki Kaisha Toshiba. Index servo type magnetic head positioning control apparatus and method thereof. 4,697,213, 9-29-87, Cl. 360-78.000.

Kitamura, Sotoo; Akita, Shigeyuki; and Kago, Yoshiyuki, to Nippon Soken, Inc. Unlocking device for a vehicle lid. 4,684,943, 8-4-87, Cl. 340-825.720.

Kitamura, Takayuki: *See—*

Miura, Koryo; Kitamura, Takayuki; Okazaki, Kakuma; and Abe, Kazuhiro, 4,662,130, Cl. 52-108.000.

Takata, Ikunori; and Kitamura, Takayuki, 4,652,902, Cl. 357-46.000.

Kitamura, Teruo: *See—*

Era, Susumu; Yokokura, Hisao; Iwasaki, Kishiro; Nakata, Tadao; Kitamura, Teruo; and Mukoh, Akio, 4,653,866, Cl. 350-350.00S.

Hirai, Yoichi; Fujii, Tsunenori; Koto, Kaoru; Suzuki, Kenji; Yoshida, Masahiro; Okawa, Hisashi; Okabe, Yoshiaki; Kitamura, Teruo; Yokokura, Hisao; Hattori, Shintaroo; Mukoh, Akio; and Sato, Mikio, 4,694,098, Cl. 560-59.000.

Yokokura, Hisao; Era, Susumu; Abe, Hidetoshi; Nakata, Tadao; Kitamura, Teruo; and Mukoh, Akio, 4,645,305, Cl. 350-351.000.

Kitamura, Tomimasa, to Koyo Auto-Mech Co., Ltd. Vehicle car steering system. 4,711,315, 12-8-87, Cl. 180-132.000.

Kitamura, Toshiaki; and Oinaga, Yuji, to Fujitsu Limited. Error recovery system in a data processor having a control storage. 4,701,915, 10-20-87, Cl. 371-13.000.

Kitamura, Yoichi; and Hotta, Hisashi, to Toyo Seikan Kaisha, Ltd. Method for surface treatment of metal blanks. 4,650,700, 3-17-87, Cl. 427-255.600.

Kitamura, Yoichi; Togo, Yoshiro; and Akae, Yoshitera, to Toyo Seikan Kaisha, Ltd. Method of making a welded can body. 4,652,715, 3-24-87, Cl. 219-64.000.

Kitamura, Yoichi; Hotta, Hisashi; and Kodaira, Toshimasa, to Toyo Seikan Kaisha, Ltd. Process for surface treatment of metal materials. 4,701,354, 10-20-87, Cl. 427-255.600.

Kitamura, Yoshiaki, to Kitamuragokin Ind. Co., Ltd. Noise-preventing structure for water mixing cocks. 4,657,045, 4-14-87, Cl. 137-625.400.

Kitamura, Yoshinori: *See—*

Fujimoto, Makoto; Kitamura, Yoshinori; Morimura, Atsushi; and Matsuoka, Hiroki, 4,680,623, Cl. 358-44.000.

Matsuoka, Hiroki; Morimura, Atsushi; and Kitamura, Yoshinori, 4,701,784, Cl. 358-213.170.

Kitamura, Yosiharu: *See—*

Ojima, Juji; and Kitamura, Yosiharu, 4,643,382, Cl. 248-371.000.

Ojima, Juji; and Kitamura, Yosiharu, 4,706,920, Cl. 248-371.000.

Kitamura, Yuji; and Mitani, Nobuhiro, to Sanyo Electric Co., Ltd. Charge coupled device for transferring electric charge. 4,649,407, 3-10-87, Cl. 357-24.000.

Kitamuragokin Ind. Co., Ltd.: *See—*

Kitamura, Yoshiaki, 4,657,045, Cl. 137-625.400.

Kitani, Kazuo: *See—*

Kanda, Atsushi; Kitani, Kazuo; and Shirai, Kiichirou, 4,705,102, Cl. 165-104.330.

Kitani, Shigehisa: *See—*

Ochi, Hiroshi; Tetsutani, Nobuji; Yamamoto, Tetsuji; Kitani, Shigehisa; and Watanabe, Asao, 4,698,688, Cl. 358-257.000.

Kitanihon Electric Wire Co.: *See—*

Tabata, Yusuke; Hayasaka, Eiji; Hashimoto, Toshitomo; Horima, Hiroaki; Omori, Toshiyuki; and Kurosawa, Akira, 4,662,712, Cl. 350-96.230.

Kitanihon Spinning Co., Ltd.: *See—*

Hakoyama, Soichi; Mori, Shigetatu; Takebe, Yoshiyuki; and Imaoka, Kanya, 4,638,624, Cl. 57-208.000.

Kitano, Hirohisa, to Minolta Camera Kabushiki Kaisha. Photosensitive member and process for forming images with use of the photosensitive member having an amorphous silicon germanium layer. 4,699,860, 10-13-87, Cl. 430-57.000.

Kitano, Hirohito; Oowaki, Toshiki; and Baba, Takashi, to Fujimi Kenmazai Kogyo Kabushiki Kaisha. Polishing composition. 4,696,697, 9-29-87, Cl. 106-3.000.

Kitano, Hisao: *See—*

Inoue, Yoshiharu; Tanimoto, Fumio; and Kitano, Hisao, 4,693,844, Cl. 512-14.000.

Kitano, Kahei: *See—*

Noguchi, Takayo; Togawa, Yoichi; Nishimoto, Tsuneo; Toaohara, Yoshiharu; Rokkaku, Tadashi; Nakai, Seigo; Araki, Michio; and Kitano, Kahei, 4,695,209, Cl. 409-42.000.

Kitano, Kazuaki; and Fujimoto, Shigeru, to Takeda Chemical Industries, Ltd. Method for producing interferons. 4,656,131, 4-7-87, Cl. 435-68.000.

Kitano, Kisei; Ogawa, Tetsuya; Furukawa, Yoshito; Yoshida, Naoyuki; Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; and Nigorikawa, Kazunori, to Chisso Corporation. Pyrimidine derivative and liquid crystal composition containing same. 4,684,476, 8-4-87, Cl. 252-299.610.

Kitano, Kisei: *See—*

Nigorikawa, Kazunori; Kitano, Kisei; Sugimori, Shigeru; and Ogawa, Tetsuya, 4,668,425, Cl. 252-299.610.

Ogawa, Tetsuya; Kitano, Kisei; Goto, Yasuyuki; Fukui, Masahiro; and Sugimori, Shigeru, 4,640,795, Cl. 252-299.500.

Sugimori, Shigeru; Ogawa, Tetsuya; Goto, Yasuyuki; Isoyama, Toyoshiro; Nigorikawa, Kazunori; Kitano, Kisei; Yoshida, Naoyuki; and Furukawa, Yoshito, 4,673,529, Cl. 252-299.630.

Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; Nigorikawa, Kazunori; Ogawa, Tetsuya; Kitano, Kisei; Yoshida, Naoyuki; and Furukawa, Yoshito, 4,684,478, Cl. 252-299.630.

Yoshida, Naoyuki; Kitano, Kisei; Furukawa, Yoshito; Ogawa, Tetsuya; Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; and Nigorikawa, Kazunori, 4,640,796, Cl. 252-299.610.

Kitano, Kissho; Duvdevani, Ilan; and Schulz, Donald N., to Exxon Research and Engineering Company. Method for controlling viscosity of organic liquids and compositions. 4,715,865, 12-29-87, Cl. 44-7.300.

Kitano, Kyozo; Mikuchi, Fumihiro; and Terao, Toshimi, to Lion Corporation. Sulfonation method of polystyrene. 4,671,903, 6-9 Cl. 260-505.00R.

Kitano, Masahiko: *See—*

Enomoto, Hiroshi; Kise, Masahiro; Ozaki, Masakuni; Kitano, Masahiko; and Morita, Iwao, 4,659,734, Cl. 514-255.000.

Kitano, Masahiro; Wakai, Katsuro; and Hashimoto, Masahiro, to Hitachi, Ltd. Method and apparatus of scanning control for information processing systems. 4,667,325, 5-19-87, Cl. 371-25.000.

Kitano, Masayasu: *See—*

Ohkochi, Katsutoshi; Shinozaki, Mamoru; Ohshita, Toshiyuki; Kitano, Masayasu; and Kamata, Seizo, 4,706,753, Cl. 166-286.000.

Kitano, Seiichi: *See—*

Yoneda, Kazuhiko; Kitano, Seiichi; and Fukuda, Yoshinobu, 4,643,289, Cl. 192-106.200.

Kitano, Senjin; and Tsutsumi, Hiroki, to Tokuden Co., Ltd. Rotating heating roller of the type having a three phase circumferentially laminated leg core. 4,647,744, 3-3-87, Cl. 219-10.49A.

Kitano, Takafumi: *See—*

Sannohe, Kunio; Otsuka, Kengo; Ito, Toshoaiko; Maruyama, Masahiko; Kitano, Takafumi; and Hirayama, Makoto, 4,639,521, Cl. 546-141.000.

Yano, Osamu; and Kitano, Takafumi, 4,657,896, Cl. 514-44.000.

Kitano, Tateo: *See—*

Nishiyama, Yuji; Kitano, Tateo; and Hashimoto, Masakazu, 4,673,217, Cl. 297-473.000.

Kitano, Tatsuo. Shaped bodies of calcium silicate. 4,681,809, 7-21-87, Cl. 428-428.000.

Kitano, Tomoyuki: *See—*

Tabata, Osamu; Inagaki, Hazime; and Kitano, Tomoyuki, 4,680,963, Cl. 73-204.000.

Kitano, Toyoaki, to Mitsubishi Denki Kabushiki Kaisha. Acoustic apparatus. 4,633,973, 1-6-87, Cl. 181-207.000.

Kitao, Teijiro; Matsuoka, Masaru; and Kaieda, Osamu, to Nippon Shokubai Kagaku Kogyo Co., Ltd. 5,6,7,8-tetrafluoroanthraquinone derivatives. 4,647,411, 3-3-87, Cl. 260-381.000.

Kitao, Zenichi; and Koizumi, Haruyuki, to Omron Tateisi Electronics Co. Alternate on-off switch mechanism. 4,647,742, 3-3-87, Cl. 200-159.00A.

Kitaoka, Hidenari: *See—*

Funahashi, Yoshiko; Matsumura, Yasuharu; Harimaya, Senichi; Kamino, Yoshikazu; and Kitaoka, Hidenari, 4,643,979, Cl. 436-78.000.

Kitaoka, Shinji: *See—*

Watanabe, Tokisuke; Kitaoka, Shinji; and Suwa, Yoshio, 4,658,042, Cl. 549-257.000.

Kitaoka, Takashi; and Watanabe, Eiki, to Mitsubishi Denki Kabushiki Kaisha. Apparatus for controlling an elevator. 4,678,063, 7-7-87, Cl. 187-119.000.

Kitaoka, Takashi, to Kabushiki Kaisha Ishida Koki Seisakusho. Label printer with variable format. 4,712,929, 12-15-87, Cl. 400-76.000.

Kitaori, Tadahiro; Haginoya, Tsutomu; and Kozakura, Nobuto, to Tsubakimoto Chain Company. Carburized pin for chain. 4,711,676, 12-8-87, Cl. 148-319.000.

Kitasato Institute, The: *See—*

Komiyama, Kanki; Funayama, Shinji; and Umezawa, Iwao, 4,701,324, Cl. 424-118.000.

Omura, Satoshi; Iwai, Yuzuru; Hinotozawa, Kiyoizumi; and Hirano, Atsushi, 4,666,715, Cl. 424-122.000.

Kitasato Kenkyusho: *See—*

Omura, Satoshi; and Itoh, Zen, 4,677,097, Cl. 514-29.000.

Tsurumizu, Takashi; Hashimoto, Takashi; and Takahashi, Takashi, 4,661,350, Cl. 424-92.000.

Kitatani, Katsuji; and Sano, Kenji, to Fuji Photo Film Co., Ltd. Electrophotographic light-sensitive material comprising organic photoconductor and pyrylium sensitizer. 4,663,260, 5-5-87, Cl. 430-83.000.

Kitatani, Katuzi: *See—*

Tachikawa, Hiromichi; Yokoya, Hiroaki; Watarai, Syu; and Kitatani, Katuzi, 4,681,832, Cl. 430-115.000.

Kitate Sangyo Co., Ltd.: *See—*

Yamaguchi, Isaburo, 4,652,235, Cl. 431-325.000.

Kitauchi, Hajime, to Mitsubishi Denki Kabushiki Kaisha. Decentralization type control apparatus for an air-conditioning or a refrigerating apparatus. 4,674,291, 6-23-87, Cl. 62-126.000.

Kitaura, Eiji: *See—*

Fukushima, Kiyoto; Takamatsu, Shigeru; and Kitaura, Eiji, 4,659,626, Cl. 428-425.900.

Yoda, Kuniichi; Kitaura, Eiji; Tsunoda, Tsutomu; and Kawakami, Yoshio, 4,713,278, Cl. 428-141.000.

Kitaura, Wataru; and Ito, Tetsuo, to Hitachi, Ltd. Method and apparatus for detecting the position of a movable object utilizing the magnetostrictive effect to generate ultrasonic waves. 4,654,590, 3-31-87, Cl. 324-208.000.

Kitaura, Wataru: *See—*

Ito, Tetsuo; Arita, Setsuo; and Kitaura, Wataru, 4,673,974, Cl. 358-108.000.

Kitaura, Yoshihiko; Oku, Teruo; Hirai, Hideo; Yamamoto, Tosiyuki; and Hashimoto, Masashi, to Fujisawa Pharmaceutical Co., Ltd. Quinolizinone compounds and pharmaceutical composition comprising the same, useful as anti-ulcerative and anti-allergic agents. 4,650,804, 3-17-87, Cl. 514-306.000.

Kitaura, Yoshihiko; Nakaguchi, Osamu; Hemmi, Keiji; Aratani, Matsuhiko; Takeno, Hidekazu; Okada, Satoshi; Tanaka, Hirokazu; Hashimoto, Masashi; Kuroda, Yoshio; Iguchi, Eiko; Kohsaka, Masanobu; Aoki, Hatsuo; and Imanaka, Hiroshi, to Fujisawa Pharmaceutical Co., Ltd. Peptide, process for preparation thereof and use thereof. 4,666,890, 5-19-87, Cl. 514-18.000.

Kitaura, Yoshihiko; Oku, Teruo; Hirai, Hideo; Yamamoto, Tosiyuki; and Hashimoto, Masashi, to Fujisawa Pharmaceutical Co., Ltd. Quinolizinone compounds, and pharmaceutical composition comprising the same, useful as anti-ulcerative and anti-allergic agents. 4,698,349, 10-6-87, Cl. 514-306.000.

Kitaya, Katsuhiko; and Ichise, Nagayoshi, to Nippon Sheet Glass Co., Ltd. Distortion inspection apparatus of a glass plate. 4,647,197, 3-3-87, Cl. 356-239.000.

Kitaya, Katsuhiko; Iida, Naohiro; Miyake, Atsushi; Kobayashi, Mitsuo; and Shirai, Akira, to Nippon Sheet Glass Co., Ltd. Contour shaping apparatus. 4,685,180, 8-11-87, Cl. 29-33.00R.

Kitayama, Hiroyuki: *See—*

Tsuboyama, Akira; Inaba, Yutaka; and Kitayama, Hiroyuki, 4,674,839, Cl. 350-334.000.

Kitayama, Isao: *See—*

Narita, Hirokazu; Konishi, Yoshinori; Nitta, Jun; Misumi, Shunjiro; Nagaki, Hideyoshi; Kitayama, Isao; Nagai, Yoriko; Watanabe, Yasuo; Matsubara, Nobuyuki; Minami, Shinzaburo; and Saikawa, Isamu, 4,698,352, Cl. 514-339.000.

Todo, Yozo; Yamafuji, Tetsuo; Nagumo, Katsuyuki; Kitayama, Isao; Nagaki, Hideyoshi; Miyajima, Mikako; Konishi, Yoshinori; Narita, Hirokazu; Takano, Shuntaro; and Saikawa, Isamu, 4,704,459, Cl. 546-123.000.

Kitayama, Kozi, to Kabushiki Kaisha Daikin Seisakusho. Damper disc. 4,645,053, 2-24-87, Cl. 192-106.200.

Kitayama, Shuichi: *See—*

Yamashita, Fumitoshi; Wada, Masami; and Kitayama, Shuichi, 4,689,163, Cl. 252-62.540.

Kitayama, Tooru: *See—*

Iizuka, Kenichi; Kitayama, Tooru; Uzuhashi, Hideo; and Aoki, Hideo, 4,709,317, Cl. 363-37.000.

Kitayama, Yoshifumi: *See—*

Maeda, Yukio; Kitayama, Yoshifumi; and Murakami, Shuichi, 4,676,864, Cl. 156-633.000.

Kitayama, Yoshinobu; Saito, Yasunori; and Okano, Mikihiko, to Sumitomo Electric Industries, Ltd. Composite overhead stranded conductor. 4,671,610, 6-9-87, Cl. 350-96.230.

Kitayama, Yukio: *See—*

Nozawa, Yoshio; Ochiai, Izumi; Kitayama, Yukio; Miyagi, Masahiro; Uehara, Katsuharu; Deguchi, Takahiko; Morita, Keikichi; Arai, Katsuo; and Nakayama, Tamotsu, 4,698,904, Cl. 29-726.000.

Kitayoshi, Hitoshi: *See—*

Kasahara, Toshiharu; Ogami, Takayuki; and Kitayoshi, Hitoshi, 4,713,788, Cl. 364-718.000.

Kitazato, Naohisa; and Hamada, Osamu, to Sony Corporation. Digital graphic equalizer. 4,661,982, 4-28-87, Cl. 381-103.000.

Kitazawa, Eiichi: *See—*

Yoshioka, Takao; Kitazawa, Eiichi; Yamazaki, Mitsuo; and Iizuka, Yoshio, 4,691,027, Cl. 549-32.000.

Kitazawa, Jitsuo: *See—*

Kokubo, Ichiro; Mizuta, Atsuo; Yamamoto, Yoshitaka; and Kitazawa, Jitsuo, 4,712,414, Cl. 72-366.000.

Kitazawa, Osamu: *See—*

Nakamura, Shigekazu; Kitazawa, Osamu; Nakamori, Masao; and Ohzeki, Yoshiyuki, 4,646,194, Cl. 360-137.000.

Kitazawa, Shinichi: *See—*

Minorikawa, Koich; and Kitazawa, Shinichi, 4,667,463, Cl. 57-328.000.

Kitazawa, Shooji, to OKI Electric Industry Co., Ltd. MOS read-only memory systems. 4,709,352, 11-24-87, Cl. 365-104.000.

Kitazawa, Yasuhide; Shibagaki, Mikio; and Usui, Motonori, to Kabushiki Kaisha Sankyo Seiki Seisakusho. Vibration plate for music box movement. 4,676,135, 6-30-87, Cl. 84-94.00R.

Kitazawa, Yoichi: *See—*

Okuni, Shinichiro; and Kitazawa, Yoichi, 4,706,725, Cl. 152-541.000.

Kitazawa, Yoshihiro, to Dainippon Screen Mfg. Co., Ltd. Density conversion in image reproduction. 4,710,823, 12-1-87, Cl. 358-280.000.

Kitazima, Masaaki; Kawakami, Hideaki; and Nagae, Yoshiharu, to Hitachi, Ltd. Information holding device. 4,649,517, 3-10-87, Cl. 365-108.000.

Kitazume, Shunosuke: *See—*

Yoshida, Takeshi; Honda, Takayasu; Kitazume, Shunosuke; and Tanaka, Kouzou, 4,637,653, Cl. 297-334.000.

Kitazume, Yoshiaki; Yasue, Toshikazu; Ohira, Eiji; Endo, Takeyuki; and Asou, Satoshi, to Hitachi, Ltd. Method and apparatus for registering standard pattern for speech recognition. 4,672,668, 6-9-87, Cl. 381-43.000.

Kitazumi, Etsuo: *See—*

Takeuchi, Makoto; Kitazumi, Etsuo; Sakaki, Hirokazu; and Okishi, Yoshio, 4,714,528, Cl. 204-33.000.

Kitchell, Judith P.; and de Riel, Stanton R., to Dynatech Corporation. Biologically useful polymer preparations. 4,692,328, 9-8-87, Cl. 424-78.000.

Kitchen, Alonzo G.; and Szalla, Frank J., to Phillips Petroleum Company. Craze-resistant polymodal linear block copolymers with terminal tapered blocks. 4,704,434, 11-3-87, Cl. 525-250.000.

Kitchen, Alonzo G., to Phillips Petroleum Company. Craze-resistant polymodal linear block copolymers with resinous terminal blocks. 4,704,435, 11-3-87, Cl. 525-250.000.

Kitchen, John A. Method of dispersing exhaust gases. 4,633,852, 1-6-87, Cl. 126-307.00R.

Kitchen, John A., to John A. Kitchen Ltd. Pulse combustion apparatus. 4,640,674, 2-3-87, Cl. 431-1.000.

Kitchen, John A., to John A. Kitchen Ltd. Pulse combustion apparatus. 4,697,358, 10-6-87, Cl. 34-191.000.

Kitchen, John A., to John A. Kitchen Ltd. Dehydrator. 4,706,390, 11-17-87, Cl. 34-57.00R.

Kitchenaid, Inc.: *See—*
  Ponikwia, Edward F.; Dixon, William E.; and Stottmann, Richard L., 4,674,690, Cl. 241-37.500.

Kitchener, Robert A., to Casio Computer Co., Ltd. IC card and an identification system thereof. 4,650,975, 3-17-87, Cl. 235-375.000.

Kitchens, Bruce P.: *See—*
  Coppersmith, Don; and Kitchens, Bruce P., 4,675,650, Cl. 340-347.0DD.

Kitchens, Doyle. Accessory for bass fishing boat. 4,681,219, 7-21-87, Cl. 206-315.110.

Kitchens, Judith F.; Culp, Carl H., Sr.; Hyde, Raymond G.; and Brownlee, Shirley G., to United States of America, Air Force. Thermal method for destruction of microfilm products. 4,701,125, 10-20-87, Cl. 432-1.000.

Kitchin, Jonathan P.; Powers, Stephen R.; Penfound, Keith A.; Finn, Peter J.; and Fisher, Michael G., to Minnesota Mining and Manufacturing Company. Photographic materials and color proofing system. 4,705,745, 11-10-87, Cl. 430-505.000.

Kitchin, Vaughan N.: *See—*
  Bailey, Philip C.; and Kitchin, Vaughan N., 4,646,140, Cl. 358-50.000.

Kite, Rebecca: *See—*
  Allen, Barbara A.; and Kite, Rebecca, 4,635,524, Cl. 84-419.000.
  Allen, Barbara A.; and Kite, Rebecca, 4,674,390, Cl. 84-419.000.

Kiteck, Paul D., to Burlington Industries, Inc. Low noise and high efficiency doffing gun. 4,667,864, 5-26-87, Cl. 226-97.000.

Kiteley, Terence J.; and Vasavanonda, Sudthichard, to Zenith Electronics Corporation. Vertical compensation circuit utilizing variable gain amplifier. 4,645,987, 2-24-87, Cl. 315-389.000.

Kitera, Takuya: *See—*
  Tanaka, Yukio; Miyatake, Toshiya; Kitera, Takuya; and Miyamae, Isamu, 4,646,768, Cl. 134-167.00R.

Kithany, Subhash S., to Owens-Corning Fiberglas Corporation. Protective coating for refractory metal substrates. 4,668,262, 5-26-87, Cl. 65-1.000.

Kitner, William M., to Vari-X. Automatic film threading apparatus for roll-film processors. 4,641,939, 2-10-87, Cl. 354-313.000.

Kitner, William M.; and Hart, James B. Watercraft stabilizing flotation structure. 4,694,770, 9-22-87, Cl. 114-123.000.

Kito, Eiichi; and Matsumoto, Fumio, to Fuji Photo Film Co., Ltd. Verification apparatus. 4,653,900, 3-31-87, Cl. 355-29.000.

Kito, Eiichi: *See—*
  Kogane, Mikio; Suzuki, Kenji; Kito, Eiichi; Kubota, Kazufumi; and Tokuda, Kanji, 4,639,118, Cl. 355-29.000.

Kito, Kiyoharu, to Nippon Dyeing Machine Mfg. Co., Ltd. Continuous treating system for wide cloth. 4,644,765, 2-24-87, Cl. 68-62.000.

Kito, Koji: *See—*
  Onozawa, Makoto; Osawa, Michitaka; Maekawa, Hitoshi; and Kito, Koji, 4,707,040, Cl. 315-408.000.

Kito, Masahiro; and Mori, Katsuhiro, to Aisin Seiki Kabushiki Kaisha. Heat exchanger. 4,691,761, 9-8-87, Cl. 165-32.000.

Kito, Masahiro; and Mori, Katsuhiro, to Aisin Seiki Kabushiki Kaisha. Heat exchangers. 4,694,894, 9-22-87, Cl. 165-135.000.

Kito, Shigehiro; Tamaki, Akira; and Oyama, Kazuo, to Takuma Co., Ltd. Apparatus for removing acid constituents from waste-gas. 4,650,647, 3-17-87, Cl. 422-169.000.

Kito, Tetsuo: *See—*
  Fujii, Kunihisa; Tomono, Noboru; Kito, Tetsuo; and Yoshino, Kosei, 4,703,295, Cl. 335-129.000.

Kito, Tutomu: *See—*
  Shibahashi, Yutaka; Nakasuji, Norikazu; Kataoka, Takashi; Inagaki, Hiroshi; Kito, Tutomu; Ozaki, Masaharu; Matunami, Nobuaki; Ishimura, Naoya; and Fujita, Katuyuki, 4,68[illegible],791, Cl. 428-96.000.

Kito, Yoshikazu, to Hoshizaki Electric Co., Ltd. Ice making machine with water distributor. 4,715,194, 12-29-87, Cl. 62-347.000.

Kito, Yoshikazu: *See—*
  Hida, Junichi; Tsukiyama, Yasumitsu; Kito, Yoshikazu; and Tatematsu, Susumu, 4,644,757, Cl. 62-188.000.
  Tsukiyama, Yasumitsu; Kito, Yoshikazu; and Tatematsu, Susumu, 4,662,182, Cl. 62-137.000.

Kitograd, Edward K. Multi-purpose collapsible box. 4,649,667, 3-17-87, Cl. 47-66.000.

Kitoh, Makoto: *See—*
  Kokaku, Yuuichi; Kitoh, Makoto; and Honda, Yoshinori, 4,713,288, Cl. 428-336.000.

Kitoh, Masayuki: *See—*
  Itoh, Tsutomu; Tateno, Haruo; Nagasaka, Hideo; Yamamoto, Masahiro; Mitsuyoshi, Yusuke; Matsuno, Susumu; Saitoh, Hiroshi; and Kitoh, Masayuki, 4,670,290, Cl. 427-34.000.

Kitou, Kouji; Ohki, Masashi; and Ohsawa, Michitaka, to Hitachi, Ltd. Voltage stabilizer for a high-voltage generating circuit. 4,649,465, 3-10-87, Cl. 363-21.000.

Kitou, Toshikazu: *See—*
  Nishizako, Shizutaka; Kitou, Toshikazu; Shoji, Shinki; and Baba, Sadaaki, 4,661,883, Cl. 361-159.000.

Kitson, Michael J. Ladder anchor. 4,648,482, 3-10-87, Cl. 182-108.000.

Kitsukawa, Goro: *See—*
  Honma, Noriyuki; Kitsukawa, Goro; and Suzuki, Makoto, 4,697,109, Cl. 307-475.000.

Kitsunai, Hiroyuki: *See—*
  Mizumoto, Muneo; Inouye, Hiroshi; and Kitsunai, Hiroyuki, 4,708,350, Cl. 277-80.000.

Kitta, Kenichi; Kanazawa, Yasunori; and Otomo, Yoshiro, to Hitachi Maxell, Ltd. Color sensor. 4,678,338, 7-7-87, Cl. 356-402.000.

Kitta, Toshiyuki; Tada, Hiroshi; and Ishikawa, Keizo, to Japanese National Railways; and Oiles Industry Co., Ltd. Tendon for prestressed concrete. 4,648,224, 3-10-87, Cl. 52-223.00R.

Kittaka, Kiyoshi: *See—*
  Ohta, Hiromi; Ogawa, Shinji; Kajikawa, Yosiharu; Fukumura, Keiichi; Tsuchiya, Kiyomitsu; Kittaka, Kiyoshi; and Narita, Katsushi, 4,707,999, Cl. 62-474.000.

Kittaka, Toshiharu: *See—*
  Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Kato, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,649,860, Cl. 118-718.000.
  Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Katoh, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,674,443, Cl. 118-733.000.
  Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Katoh, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,676,999, Cl. 427-250.000.
  Shimozato, Yoshio; Wada, Tetsuyoshi; Yanagi, Kenichi; Kato, Mitsuo; Furukawa, Heizaburo; Wake, Kanji; Morita, Arihiko; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,655,168, Cl. 118-718.000.
  Umeda, Shozo; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Kato, Mitsuo; and Wada, Tetsuyoshi, 4,643,131, Cl. 118-718.000.

Kittaka, Yoshiaki: *See—*
  Tanaka, Toshinori; Gotou, Takeo; Ishihara, Kouhei; and Kittaka, Yoshiaki, 4,677,407, Cl. 335-202.000.

Kittel, Arthur; and Gerken, Heiner, to Olympia Werke AG. Receiving arrangement for a multiple type carrier for an impact printer. 4,673,352, 7-7-87, Cl. 400-175.000.

Kittel, Christoph: *See—*
  Blumel, Ehrenfried; Gahlau, Heinemann; Hoffmann, Manfred; Wittenmayer, Klaus; Stankiewicz, Thomas; and Kittel, Christoph, 4,663,381, Cl. 524-426.000.

Kittel, Ludwig, to U.S. Philips Corporation. Method of detecting synchronization errors in a data transmission system using a linear block code. 4,635,262, 1-6-87, Cl. 371-42.000.

Kittel, Ludwig: *See—*
  Grauel, Christoph; Kittel, Ludwig; Schmidt, Werner; and Wellens, Ulrich, 4,697,260, Cl. 370-18.000.

Kittelson, Clifford E. Battery conditioner. 4,644,244, 2-17-87, Cl. 320-4.000.

Kittle, Carl E.; LaFave, Arthur J.; and Olson, David L., to Deere & Company. Draft sensor including strain sensor coupled to load strap. 4,640,368, 2-3-87, Cl. 172-430.000.

Kittle, Douglas A.: *See—*
  Rusch, Randy A.; Kittle, Douglas A.; Ulfers, Bernhard G.; and Inman, Stephen L., 4,633,572, Cl. 29-576.00B.

Kittler, Richard C.: *See—*
  Mockler, Kenneth J.; Kittler, Richard C.; Warner, Glenn S.; and Hsu, Howard F., 4,668,335, Cl. 156-643.000.

Kittler, Wilfred C.: *See—*
  Ritchie, Ian T.; and Kittler, Wilfred C., 4,710,441, Cl. 430-62.000.

Kittleson, Karl A., to Northern Engineering, Inc. Potentiometer contact wiper. 4,679,024, 7-7-87, Cl. 338-160.000.

Kitto, William: *See—*
  Haker, Leroy C.; and Kitto, William, 4,673,420, Cl. 55-179.000.

Kittrell, Carter; Hayes, Gary B.; and Feld, Michael S., to Massachusetts Institute of Technology. Method for making optical shield for a laser catheter. 4,648,892, 3-10-87, Cl. 65-4.210.

Kittrell, Carter: *See—*
  Willett, Robert L.; Cothren, Robert M., Jr.; Kittrell, Carter; and Feld, Michael S., 4,669,467, Cl. 128-303.100.

Kittrell, James R.: *See—*
  Zarrineghbal, Hossein; Kittrell, James R.; and Darian, Saeed T., 4,643,820, Cl. 208-222.000.

Kitts, Ralph R.: *See—*
  Japikse, Cornelis H.; Van Brocklin, Lester P.; Hembree, Johnny A.; Kitts, Ralph R.; and Meece, Donald R., 4,647,466, Cl. 426-387.000.
  Japikse, Cornelis H.; Van Brocklin, Lester P.; Hembree, Johnny A.; Kitts, Ralph R.; and Meece, Donald R., 4,693,905, Cl. 426-599.000.

Kittscher, Peter; and Buecheler, Herbert, to Henkel Kommanditgesellschaft auf Aktien. Container with fused closure. 4,700,857, 10-20-87, Cl. 215-232.000.

- Kitz Corporation: *See—*
  - Kaji, Shoichi, 4,702,150, Cl. 92-128.000.
  - Nishio, Hideaki; and Tomono, Masahiko, 4,674,528, Cl. 137-375.000.
- Kitzberger, Herbert: *See—*
  - Gugel, Bernd; Niebel, Harald; Ott, Hubert; Heisele, Horst; Kitzberger, Herbert; and Seybold, Wolfgang, 4,674,179, Cl. 29-602.00R.
- Kitzinger, Frank; and Labuc, Vladimir M., to Noranda, Inc. Metal surface temperature monitor. 4,708,495, 11-24-87, Cl. 374-154.000.
- Kitzmann, Ronald A.; and Tchejeyan, Sarkis K., to General Motors Corporation. Illuminated pushbutton switch with unitary spring and contact. 4,694,130, 9-15-87, Cl. 200-314.000.
- Kitzmiller, James A.; and Sell, Kevin D., to Airstream, Inc. Steerable torsion axle. 4,655,467, 4-7-87, Cl. 280-81.00B.
- Kiuchi, Eichi: *See—*
  - Musha, Toshimitsu; Kiuchi, Eichi; and Hagisawa, Toshihiko, 4,661,816, Cl. 342-91.000.
- Kiuchi, Eiichi; Tomita, Yuichi; and Izutani, Toshiyuki, to NEC Corporation. Radar system. 4,654,665, 3-31-87, Cl. 342-160.000.
- Kiuchi, Eiichi: *See—*
  - Nakamura, Hiroshi; Kiuchi, Eiichi; and Hagisawa, Toshihiko, 4,658,255, Cl. 342-91.000.
- Kiuchi, Hideo, to Nippondenso Co., Ltd. Electromagnetically-operated fuel injection valve. 4,676,478, 6-30-87, Cl. 251-129.080.
- Kiuchi, Masao, to Ichikawa Woolen Textile Co., Ltd. Method for manufacturing a pressure belt for use with extended nip press in paper making machine. 4,643,916, 2-17-87, Cl. 427-176.000.
- Kiuchi, Masao; Ito, Yoshiaki; Ishibashi, Nobuyuki, and Yamada, Kazuo, to Ichikawa Woolen Textile Co., Ltd. Papermaker's pressure belt for extended nip presses. 4,701,368, 10-20-87, Cl. 428-233.000.
- Kiuchi, Masayoshi; and Suzuki, Nobuyuki, to Canon Kabushiki Kaisha. Camera with computer circuit. 4,645,326, 2-24-87, Cl. 354-484.000.
- Kiuchi, Masayoshi; Harada, Yoshihito; Kobayashi, Ryuichi; and Kawamura, Masaharu, to Canon Kabushiki Kaisha. Multiple exposure device for camera. 4,676,624, 6-30-87, Cl. 354-410.000.
- Kiuchi, Masayoshi, to Canon Kabushiki Kaisha. Film feeding indication device for camera. 4,678,306, 7-7-87, Cl. 354-217.000.
- Kiuchi, Masayoshi, to Canon Kabushiki Kaisha. Display device for camera. 4,692,014, 9-8-87, Cl. 354-471.000.
- Kiuchi, Masayoshi: *See—*
  - Arakawa, Kazuhiko; Tokura, Go; Fujibayashi, Kazuo; Kiuchi, Masayoshi; and Harada, Yoshihito, 4,692,008, Cl. 354-217.000.
  - Arakawa, Kazuhiko; Harada, Yoshihito; Kiuchi, Masayoshi; Tokura, Go; and Fujibayashi, Kazuo, 4,707,097, Cl. 354-217.000.
  - Eguchi, Masaharu; and Kiuchi, Masayoshi, 4,697,900, Cl. 354-215.000.
  - Fukuda, Tsuyoshi; Suzuki, Masayuki; and Kiuchi, Masayoshi, 4,673,278, Cl. 354-479.000.
  - Harada, Yoshihito; Kiuchi, Masayoshi; Kobayashi, Ryuichi; and Kawamura, Masaharu, 4,702,585, Cl. 354-410.000.
  - Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Kiuchi, Masayoshi; and Amano, Kenichiro, 4,685,789, Cl. 354-173.110.
  - Konno, Tatsuo; Sugiyama, Yoshiaki; Terashima, Jun; and Kiuchi, Masayoshi, 4,699,486, Cl. 354-82.000.
- Kiuchi, Mitsuhiro: *See—*
  - Shioiri, Hisanori; Kiuchi, Mitsuhiro; Takayama, Mineo; Homma, Toshio; Nagasaka, Hiroshi; and Kaneko, Yoshikazu, 4,657,775, Cl. 427-38.000.
- Kiuchi, Norihiro: *See—*
  - Tanino, Katsumi; Kiuchi, Norihiro; Tominaga, Chikara; Itoh, Eiji; Ogino, Kiyoshi; Yahagi, Masataka; and Sakamoto, Masaru, 4,656,455, Cl. 338-35.000.
- Kiuchi, Seiji, to Fuji Photo Film Co., Ltd. Magnetic tape winding apparatus. 4,648,562, 3-10-87, Cl. 242-56.00A.
- Kiuchi, Takao, to Fuji Photo Film Co., Ltd. Camera-combined magnetic recording-reproducing system. 4,716,474, 12-29-87, Cl. 360-33.100.
- Kiuchi, Takao: *See—*
  - Yanagida, Seiichi; Kiuchi, Takao; and Kasami, Hiroyuki, 4,654,729, Cl. 360-93.000.
- Kiuchi, Takeo; and Iwata, Takahiro, to Honda Giken Kogyo Kabushiki Kaisha. Apparatus for control of number of idling rotations of internal combustion engine. 4,676,211, 6-30-87, Cl. 123-339.000.
- Kiuchi, Takeo: *See—*
  - Otobe, Yutaka; Kiuchi, Takeo; and Tomozawa, Kikuo, 4,639,870, Cl. 364-431.050.
  - Yasuoka, Akimasa; Iwata, Takahiro; and Kiuchi, Takeo, 4,633,839, Cl. 123-488.000.
  - Yasuoka, Akimasa; and Kiuchi, Takeo, 4,635,607, Cl. 123-479.000.
  - Yasuoka, Akimasa; Iwata, Takahiro; and Kiuchi, Takeo, 4,637,362, Cl. 123-478.000.
  - Yasuoka, Akimasa; and Kiuchi, Takeo, 4,646,699, Cl. 123-489.000.
  - Yasuoka, Akimasa; and Kiuchi, Takeo, 4,649,877, Cl. 123-339.000.
  - Yasuoka, Akimasa; and Kiuchi, Takeo, 4,702,210, Cl. 123-339.000.
- Kiuchi, Yoshinori, to U.S. Amada Limited. Blanking shear machine. 4,703,678, 11-3-87, Cl. 83-71.000.
- Kiunke, Paul C.: *See—*
  - Schaefer, Robert D.; and Kiunke, Paul C., 4,701,602, Cl. 250-201.000.
- Kivela, Reijo A.: *See—*
  - Kalliomaki, Kalevi J.; Kivela, Reijo A.; and Saarimaa, Raimo V., 4,647,205, Cl. 356-357.000.
- Kivisto, Tuomo V.: *See—*
  - Salminen, Karl O.; Heino, Heimo J.; Lehtonen, Pertti T.; Koskinen, Seppo V.; Kivisto, Tuomo V.; Rinta-Keturi, Lasse J.; and Sipila, Heikki J., 4,703,846, Cl. 198-631.000.
- Kivits, Petrus J.; and De Bont, Marinus R. J., to U.S. Philips Corporation. Information recording element. 4,675,227, 6-23-87, Cl. 428-195.000.
- Kivlighan, Pamela M.: *See—*
  - Jennings, Baldwin P., Jr.; and Kivlighan, Pamela M., 4,643,199, Cl. 128-763.000.
- Kiwaki, Hisakatsu: *See—*
  - Hirotsu, Tetsuji; Kiwaki, Hisakatsu; Nakamura, Kiyoshi; Narita, Hiroshi; Kasai, Syozi; Kimura, Akira; and Tsutsui, Yoshio, 4,701,682, Cl. 318-52.000.
- Kiwi Brands, Inc.: *See—*
  - Burke, Peter A.; Duering, Walter; and Gut, Martin, 4,705,181, Cl. 215-220.000.
- Kiwi Coders Corporation: *See—*
  - Siegal, Burton L.; and Leshuk, Daniel J., 4,708,260, Cl. 220-465.000.
- Kiwitz, Heinz: *See—*
  - Krettenauer, Gustav; and Kiwitz, Heinz, 4,639,008, Cl. 280-405.00R.
- Kiya, Nobuyuki; and Yoshino, Motoaki, to Fanuc Ltd. Tapping machining method. 4,656,405, 4-7-87, Cl. 318-571.000.
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- Kiya, Nobuyuki, to Fanuc Ltd. Numerical control system with plural groups of miscellaneous functions. 4,692,872, 9-8-87, Cl. 364-474.000.
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- Kiyama, Masao: *See—*
  - Nagai, Norimichi; Horiishi, Nanao; Kiyama, Masao; and Takada, Toshio, 4,698,182, Cl. 252-62.590.
- Kiyama, Seiichi; and Imai, Hideki, to Sanyo Electric Co., Ltd. Method for dividing semiconductor film formed on a substrate into plural regions by backside energy beam irradiation. 4,650,524, 3-17-87, Cl. 148-1.500.
- Kiyama, Seiichi; Kihara, Hitoshi; and Imai, Hideki, to Sanyo Electric Co., Ltd. Photovoltaic device. 4,668,840, 5-26-87, Cl. 136-244.000.
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- Kiyobe, Seiichiro; and Hirano, Tokio, to Yokogawa Hokushin Electric Corporation. Microwave moisture sensor. 4,674,325, 6-23-87, Cl. 73-73.000.
- Kiyohara, Akio: *See—*
  - Asahi, Tetsuya; Kaneko, Hiroshi; Sakai, Yasushi; Kiyohara, Akio; and Iwashita, Tooru, 4,680,349, Cl. 526-62.000.
  - Sakai, Yasushi; Tanaka, Koji; Saito, Michio; and Kiyohara, Akio, 4,684,711, Cl. 528-86.000.
- Kiyohara, Kazuto: *See—*
  - Nakadate, Takanori; Kiyohara, Kazuto; and Harada, Ichiya, 4,699,744, Cl. 264-101.000.
- Kiyohara, Shyuichi: *See—*
  - Ohmura, Hiroshi; Tsunekawa, Tokuichi; Kiyohara, Shyuichi; and Kawabata, Takashi, 4,682,873, Cl. 354-478.000.
- Kiyohara, Takehiko, to Canon Kabushiki Kaisha. Recording apparatus having plural adjustable recording heads. 4,712,119, 12-8-87, Cl. 346-140.00R.
- Kiyohara, Takehiko; Terasawa, Koji; and Miyakawa, Akira, to Canon Kabushiki Kaisha. Method for preventing non-discharge in a liquid jet recorder and a liquid jet recorder. 4,712,172, 12-8-87, Cl. 346-1.100.
- Kiyohara, Toyohiko, to Mitsubishi Denki Kabushiki Kaisha. Thyristor with self-centering housing means. 4,677,454, 6-30-87, Cl. 357-38.000.
- Kiyokawa, Seiji: *See—*
  - Kikuchi, Isako; Ota, Isao; Takeda, Mamoru; and Kiyokawa, Seiji, 4,704,002, Cl. 350-334.000.
- Kiyomiya, Yutaka: *See—*
  - Sasaki, Yutaka; Kiyomiya, Yutaka; and Nakamura, Toshio, 4,709,070, Cl. 558-322.000.
  - Sasaki, Yutaka; Kiyomiya, Yutaka; and Nakamura, Toshio, 4,709,071, Cl. 558-322.000.
- Kiyomoto, Masayuki: *See—*
  - Hashimoto, Matsuo; Kiyomoto, Masayuki; Karasawa, Yoshimitsu; Sakamoto, Kenji; Kakui, Yasuhiko; and Hirasawa, Yutaka, 4,675,252, Cl. 428-431.000.
- Kiyono, Kenichi: *See—*
  - Hatano, Masakatsu; Oshima, Kazunori; Ihara, Tatsuya; and Kiyono, Kenichi, 4,711,867, Cl. 502-205.000.
- Kiyono, Masashi: *See—*
  - Kamei, Eiichi; Namba, Hideaki; Takao, Mitsunori; Ohba, Masahiro; Yonekawa, Masao; and Kiyono, Masashi, 4,653,449, Cl. 123-478.000.
- Kiyono, Yasuhiro; and Takeyama, Yutaka, to Omron Tateisi Electronics Co. Switch control device for motor vehicle. 4,691,116, 9-1-87, Cl. 307-10.00R.
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- Kiyono, Yoshihiko, to Seiko Instruments & Electronics Ltd. Electronic analogue timepiece of DC magnetic field detection type. 4,688,948, 8-25-87, Cl. 368-157.000.
- Kiyooka, Katsumi, to Komatsu Zenoah Co. Dust collector. 4,663,799, 5-12-87, Cl. 15-330.000.

Kiyooka, Katsumi: *See—*

Gamoh, Akira; Miura, Takashi; Sawada, Toshiharu; and Kiyooka, Katsumi, 4,658,778, Cl. 123-195.00C.

Kiyoshi, Tokita; and Masayoshi, Kondou, to Kabushiki Kaisha Toshiba. Shadow mask for a color cathode ray tube. 4,716,333, 12-29-87, Cl. 313-402.000.

Kiyoshige, Tatsuo; Kikuchi, Yasuo; Takazoe, Ichiro; and Okuda, Katsuji, to Lion Corporation. Oral composition containing antibodies to *Bacteroides gingivalis*. 4,689,221, 8-25-87, Cl. 424-87.000.

Kiyoshige, Tatsuo: *See—*

Nakamura, Tsuneaki; Kiyoshige, Tatsuo; and Sasaki, Shuji, 4,714,612, Cl. 424-85.000.

Kiyota, Yuuhiko; Okada, Tooru; and Isomoto, Jun, to Mitsubishi Jidosha Kogyo Kabushiki Kaisha. Auxiliary fuel supply device for alcohol engine. 4,646,691, 3-3-87, Cl. 123-179.00G.

Kiyoto, Sumio; Murai, Hidetsugu; Tsurumi, Yasuhisa; Terano, Hiroshi; and Kohsaka, Masanobu, to Fujisawa Pharmaceutical Co., Ltd. Compound FR-68504, production thereof and use thereof. 4,670,259, 6-2-87, Cl. 424-118.000.

Kiyoto, Sumio; Okuhara, Masakuni; Kino, Eiko; Tanaka, Hirokazu; Aoki, Hatsuo; Kohsaka, Masanobu; and Imanaka, Hiroshi, to Fujisawa Pharmaceutical Co., Ltd. Antitumor agent comprising FR-900216. 4,680,178, 7-14-87, Cl. 424-122.000.

Kiyotomo, Mikio: *See—*

Narisoko, Minoru; and Kiyotomo, Mikio, 4,702,177, Cl. 110-110.000.

Kiyozuka, Noboru, to NEC Corporation. Logic circuit having delay time free from temperature affection. 4,672,237, 6-9-87, Cl. 307-310.000.

Kizaki, Hisao: *See—*

Maruyama, Yuji; Otake, Kohei; and Kizaki, Hisao, 4,660,572, Cl. 128-804.000.

Kizaki, Masaharu; and Shibazaki, Shigeru, to Casio Computer Co., Ltd. Liquid crystal projector. 4,671,634, 6-9-87, Cl. 353-122.000.

Kizaki, Masaharu: *See—*

Fuse, Takahiro; Kawamura, Masao; Yamagishi, Koji; Odachi, Kazuyuki; Ono, Haruo; and Kizaki, Masaharu, 4,642,693, Cl. 358-236.000.

Kizaki, Masami: *See—*

Fujita, Masahito; Kizaki, Masami; Miyazaki, Makoto; and Inaba, Naomi, 4,634,687, Cl. 502-121.000.

Fujita, Masahito; Miyazaki, Makoto; Kizaki, Masami; Nagashima, Yukio; and Shimbori, Yuichi, 4,678,768, Cl. 502-119.000.

Fujita, Masahito; Kizaki, Masami; Miyazaki, Makoto; and Inaba, Naomi, 4,716,206, Cl. 526-139.000.

Kizaki, Yoshio, to Clarion Co., Ltd. Signal transmission control apparatus. 4,686,702, 8-11-87, Cl. 379-373.000.

Kizawa, Hiroyuki, to Seikosha Co., Ltd. Clock. 4,702,616, 10-27-87, Cl. 368-223.000.

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Kizawa, Hiroyuki, to Seikosha Co., Ltd. Clock. 4,711,586, 12-8-87, Cl. 368-232.000.

Kizawa, Horofumi, to Kabushiki Kaisha Komatsu Seisakusho. Fuel injection system for internal-combustion engines. 4,677,953, 7-7-87, Cl. 123-450.000.

Kiziah, Floyd G. Drain. 4,694,513, 9-22-87, Cl. 4-288.000.

Kizilbash, Akeel H. Computer composition of nastaliq script of the urdu group of languages. 4,680,710, 7-14-87, Cl. 364-419.000.

Kizior, David J.: *See—*

Sasuta, Michael D.; Rosenthal, Lewis H.; Mills, Donald C.; Marten, Russell A.; Kizior, David J.; Sobti, Arun; and Blankenship, Johnny E., 4,698,805, Cl. 370-97.000.

Kizirnis, Sigmund W.: *See—*

Goss, Larry P.; Grosjean, Dennis F.; Sarka, Benjamin, Jr.; Kizirnis, Sigmund W.; and Ganguly, Biswa N., 4,655,608, Cl. 374-119.000.

Kizu, Shuji; Ishida, Tsuyoshi; and Nagase, Yasuo, to Kabushiki Kaisha Toshiba. Sheet orienter using flap detection. 4,691,100, 9-1-87, Cl. 250-223.00R.

Kizu, Soujiro: *See—*

Ninomiya, Ichiro; Kizu, Soujiro; and Sashoh, Hidehiko, 4,709,277, Cl. 360-14.300.

Kjeldsen, Ingomar. Three-dimensional duplicating milling machine. 4,693,645, 9-15-87, Cl. 409-86.000.

Kjeldstad, Jan. Device for protection of electrical subsea connectors against penetration of seawater. 4,669,792, 6-2-87, Cl. 439-38.000.

Kjelgaard, Tom; Hallberg, Anders; and Jacobsson, Kenth, to Tetra Pak International AB. Reclosable opening arrangement on a packing container. 4,715,528, 12-29-87, Cl. 229-123.100.

Kjell-Berger, Olle: *See—*

Andersson, D. Bertil; Juhlin, Nils J. W.; Gillenium, Claes I.; Kjell-Berger, Olle; and Brinck, Owe R., 4,661,119, Cl. 44-10.00C.

Kjell, Solveg S.; Chao, Tai-Hsiang; Flint, Nancy J.; and Foutsitzis, Arthur A., to UOP Inc. Phosphorus containing alumina catalyst for the production of aromatics. 4,636,483, 1-13-87, Cl. 502-61.000.

Kjellander, Gunnar L.: *See—*

Gilen, Christer W.; and Kjellander, Gunnar L., 4,665,515, Cl. 370-67.000.

Kjellin, Per G.; and Persson, Carl G. A., to Aktiebolaget Draco. 3-Alkylxanthines intermediates composition and methods for the treatment of chronic obstructive-airway disease and cardiac disease. 4,644,001, 2-17-87, Cl. 514-263.000.

Kjellqvist, Olof G.; Akerblom, Bengt O.; and Sjobom, Axel H., to Sunds Defibrator Aktiebolag. Apparatus including contact free transfer of signals for measuring the gap between relatively rotating refiner discs. 4,673,875, 6-16-87, Cl. 324-207.000.

Kjersem, Jens A. Chair without a back/a stool. 4,668,015, 5-26-87, Cl. 297-458.000.

Kjohl, Olav; Obrestad, Torstein; and Groland, Hans, to Norsk Hydro, a.s. NPK complex fertilizer. 4,713,108, 12-15-87, Cl. 71-32.000.

Kjolseth, Ove: *See—*

Willners, Harry; and Kjolseth, Ove, 4,698,824, Cl. 373-49.000.

Kjornaes, Kim; and Linnemann, Jorgen, to A/S Alfred Benzon. Diffusion coated multiple-units dosage form. 4,713,248, 12-15-87, Cl. 424-468.000.

Kjornaes, Kim; Christensen, Finn N.; and Jensen, Jens R., to A/S Alfred Benzon. Diffusion coated multiple-units dosage form. 4,716,041, 12-29-87, Cl. 424-468.000.

Kjorvel, Arne: *See—*

Camm, David M.; Kjorvel, Arne; Halpin, Nicholas P.; and Housden, Anthony J. D., 4,700,102, Cl. 313-24.000.

Kjose, Kenneth L. Combined golf bag and equipment carrier. 4,657,135, 4-14-87, Cl. 206-315.300.

KJS Industries, Inc.: *See—*

Bennett, Robert, 4,711,354, Cl. 206-385.000.

KLA Instruments Corporation: *See—*

Chadwick, Curt H.; Shulenberger, Art M.; Taylor, John S.; and Simmons, Richard R., 4,639,587, Cl. 250-201.000.

Chadwick, Curt H.; and Desai, Anil A., 4,647,764, Cl. 250-216.000.

Robinson, C. Michael, 4,663,732, Cl. 364-900.000.

Sandland, Paul; Levy, Kenneth; Singleton, Russell M.; Hodgson, Michael L.; and Cutler, Gerald R., 4,644,172, Cl. 250-548.000.

Klaar, Karlo: *See—*

Spielau, Paul; Kuhnel, Werner; Klaar, Karlo; Gaspar, Bertram; Weiss, Richard; Ulb, Horst; Breitscheidel, Hans-Ulrich; Klingberg, Gerd; and Fenske, Jurgen, 4,652,326, Cl. 156-244.110.

Klaase, Petrus T. A.: *See—*

Verbeek, Pieter W.; Klaase, Petrus T. A.; and Theil, Arne, 4,712,037, Cl. 310-323.000.

Klaassen, Francois M.: *See—*

Slotboom, Jan W.; Maas, Henricus G. R.; Appels, Johannes A.; and Klaassen, Francois M., 4,636,826, Cl. 357-24.000.

Klaassen, Klaas B., to International Business Machines Corporation. Method and apparatus for reading recorded data by a magnetoresistive head. 4,712,144, 12-8-87, Cl. 360-67.000.

Klaassen, Klaas B.: *See—*

Jove, Stephen A.; and Klaassen, Klaas B., 4,706,138, Cl. 360-67.000.

Klabes, Karl-Heinz, to Leisegang Feinmechanik Optik GmbH. Colposcope with photographic equipment. 4,652,103, 3-24-87, Cl. 354-62.000.

Klabunde, Ulrich, and Mulhaupt, Rolf, to Du Pont de Nemours, E. I., and Company. Metal halide vaporization into diluents. 4,650,778, 3-17-87, Cl. 502-8.000.

Klabunde, Ulrich, to Du Pont de Nemours, E. I., and Company. Nickel-catalyzed copolymerization of ethylene. 4,698,403, 10-6-87, Cl. 526-126.000.

Klabunde, Ulrich, to Du Pont de Nemours, E. I., and Company. Nickel-catalyzed polymerization of ethylene. 4,716,205, 12-29-87, Cl. 526-115.000.

Klacik, Kenneth J.; Vermesh, Robert J.; Fronczkowski, Paul R.; DeTora, Sigismondo A.; and Mihalich, Donald, to Nabisco Brands, Inc. Apparatus for continuously depositing sorbitol sweetened hard candy. 4,657,501, 4-14-87, Cl. 425-379.00R.

Klaeger, Karlheinz. Spray nozzle for a liquid atomizer. 4,678,123, 7-7-87, Cl. 239-464.000.

Klaenhammer, Todd R.: *See—*

Daeschel, Mark A.; McFeeters, Roger F.; Fleming, Henry P.; Klaenhammer, Todd R.; and Sanozky, Rosemary B., 4,666,849, Cl. 435-253.000.

Klafter, Leon: *See—*

Harstead, Edward E.; Klafter, Leon; and Shi, Yan-Chi, 4,643,521, Cl. 350-96.200.

Klag, James P.: *See—*

Harris, William H.; Klag, James P.; and Lam, Joseph W., 4,681,041, Cl. 105-355.000.

Klages, Claus-Peter: *See—*

Tolksdorf, Wolfgang F. M.; Bartels, Inske E. H.; Dammann, Hans O. B.; Klages, Claus-Peter; and Pross, Elke B., 4,712,855, Cl. 350-96.120.

Klahn, Frank C.: *See—*

Fasnacht, Floyd A., Jr.; Klahn, Frank C.; Schafer, Bruce W.; and Werner, Charles E., 4,700,662, Cl. 122-392.000.

Klahr, Erhard: *See—*

Denzinger, Walter; Hartmann, Heinrich; Trieselt, Wolfgang; Klahr, Erhard; and Hettche, Albert, 4,702,858, Cl. 252-174.240.

Klambauer, Manfred, to Voest-Alpine Aktiengesellschaft. Lock for the transport of bulk material. 4,687,408, 8-18-87, Cl. 414-217.000.

Klamer, Reuben B. Dual material safety wheel. 4,699,432, 10-13-87, Cl. 301-5.300.

Klamma, Klaus: *See—*

Bald, Wilfried; and Klamma, Klaus, 4,674,313, Cl. 72-249.000.

Klancnik, Adolph V.; and Klancnik, Kenneth A., to Universal Automatic Corporation. Machine tools. 4,637,524, 1-20-87, Cl. 221-239.000.

Klancnik, Adolph V.; and Klancnik, Kenneth A., to Universal Automatic Corporation. Machine tools. 4,645,092, 2-24-87, Cl. 221-239.000.

Klancnik, Kenneth A.: *See—*

Klancnik, Adolph V.; and Klancnik, Kenneth A., 4,637,524, Cl. 221-239.000.

Klancnik, Adolph V.; and Klancnik, Kenneth A., 4,645,092, Cl. 221-239.000.

ann, Horst. Wrench for effecting screw connections of inaccessible arts of motor vehicles. 4,641,554, 2-10-87, Cl. 81-55.000.

ann, Horst. Device for pushing wheel flange hubs and splined flange ubs of motor vehicles out of a shaft bearing. 4,682,395, 7-28-87, Cl. 9-261.000.

ann, Horst. Assembly device for axle bearings and/or wheel flange ubs of motor vehicles. 4,709,459, 12-1-87, Cl. 29-263.000.

ann, Jorg: *See—*

Althaus, Hans-Ludwig; Klann, Jorg; and Kuny, Wilhelm, 4,638,343, Cl. 357-17.000.

ann, Paul A. Electric valve for pipe organs. 4,651,615, 3-24-87, Cl. 4-339.000.

ann, Paul A. Pipe organ valve. 4,704,937, 11-10-87, Cl. 84-339.000.

anner, Wilfried; Schmaler, Dieter H.; Wetter, Hermann; Felsch, Bernhard; and Czernakowski, Waldemar, to Romer-Britax Autogurte GmbH; and ADAC e.V. Adjustable toddler car seat. 4,687,255, -18-87, Cl. 297-488.000.

app, Hartmut, to Jagenberg Aktiengesellschaft. Method and appara- us for preventing contamination by splashing glue in a carton form- ng machine. 4,645,481, 2-24-87, Cl. 493-150.000.

apper, Kenneth K.; and Boatwright, David A., to Westinghouse Electric Corp. Plugger guide for aligning an end plug and a fuel rod ube end. 4,641,408, 2-10-87, Cl. 29-271.000.

apper, Kenneth K.: *See—*

Widener, Wade H.; and Klapper, Kenneth K., 4,640,407, Cl. 198-389.000.

apper, Lewis. Adjustable orthodontic bracket assembly. 4,676,746, -30-87, Cl. 433-16.000.

apperich, Gary: *See—*

Bertelsen, Matthew H.; and Klapperich, Gary, 4,690,042, Cl. 98-115.100.

appert, Willi: *See—*

Hunt, Robert H.; and Klappert, Willi, 4,646,048, Cl. 336-213.000.

apwijk, Abraham: *See—*

Solt, George S.; and Klapwijk, Abraham, 4,671,879, Cl. 210-610.000.

ar, Erhard: *See—*

Hashiguchi, Don H.; and Klar, Erhard, 4,707,184, Cl. 75-228.000.

are, Robert J., to Du Pont de Nemours, E. I., and Company. Coated glass fabric. 4,645,709, 2-24-87, Cl. 428-251.000.

aren, Dick G., to Esmil B.V. Apparatus for carrying out physical and/or chemical processes, more specifically a heat exchanger of the continuous type. 4,640,339, 2-3-87, Cl. 165-1.000.

arenbach, Hans W.; and Schmitz, Herbert, to Heimsyphon GmbH. Dispensing and safety valve assembly for use in syphons and the like. 4,669,639, 6-2-87, Cl. 222-396.000.

largester Environmental Engineering Ltd.: *See—*

Nicholson, John L., 4,692,241, Cl. 210-150.000.

las, Ernst; Schmidt, Rudolf; Schumacher, Gunther; Stausebach, Dieter; and Zentis, Alfred, to Interatom GmbH. High-temperature resistant elongation measuring system formed of ceramic materials. 4,699,010, 10-13-87, Cl. 73-774.000.

lassen, Amelia K., legal representative: *See—*

Young, Leon; and Klassen, Edward J., deceased, 4,714,184, Cl. 224-253.000.

lassen, David D.; Moyer, Roy E.; Lastrina, Frank A.; and Tameo, Robert P., to General Electric Company. Axial flow inlet particle separator. 4,685,942, 8-11-87, Cl. 55-306.000.

lassen, Edward J., deceased: *See—*

Young, Leon; and Klassen, Edward J., deceased, 4,714,184, Cl. 224-253.000.

lassen, William E.: *See—*

Fensterer, Howard F.; Klassen, William E.; Veronesi, Luciano; Boyle, David E.; and Salton, Robert B., 4,661,306, Cl. 376-209.000.

Veronesi, Luciano; Tower, Stephen N.; and Klassen, William E., 4,708,842, Cl. 376-203.000.

lat, Samir R.: *See—*

Knight, Robert G.; Klat, Samir R.; and Unwin, Kenneth, 4,711,309, Cl. 175-93.000.

latt, Alfred; and Reinecke, Erich, to WABCO Westinghouse Fahrzeugbremsen GmbH. Transmission control apparatus and method for determining shift signals on downhill slopes. 4,648,291, 3-10-87, Cl. 74-866.000.

latt, Alfred, to WABCO Westinghouse Fahrzeugbremsen GmbH. Apparatus to protect a clutch from overheating. 4,651,142, 3-17-87, Cl. 340-679.000.

latt, Alfred, to WABCO Westinghouse Fahrzeugbremsen GmbH. Gearshift range preconditioning system. 4,690,008, 9-1-87, Cl. 74-336.00R.

latt, Alfred, to WABCO Westinghouse Fahrzeugbremsen GmbH. Transmission control apparatus and method for vehicle traveling uphill or downhill. 4,713,764, 12-15-87, Cl. 364-424.100.

latt, Alfred: *See—*

Bortfeld, Harald; Danne, Lutz; Lehrmann, Joachim; and Klatt, Alfred, 4,660,430, Cl. 74-335.000.

Klatt, Frederick. Power transmission apparatus for enclosed fluid systems. 4,669,068, 5-26-87, Cl. 367-83.000.

Klatt, Frederick W. Electric apparatus. 4,634,950, 1-6-87, Cl. 318-732.000.

Klatt, Robert W., to Hughes Aircraft Company. Detector signal conditioner. 4,692,618, 9-8-87, Cl. 250-330.000.

Klatzka, Joseph H.: *See—*

Maass, Helmut; and Klatzka, Joseph H., 4,710,055, Cl. 404-112.000.

Klaubert, Dieter H.; and Sellstedt, John H., to American Home Products Corporation. Process for preparing 1-H-tetrazole-5-thiols. 4,663,461, 5-5-87, Cl. 548-251.000.

Klaucic, Luciano, to Continua International Continuous Casting S.p.A. Machine for the curved continuous casting with rigid starting bar. 4,715,426, 12-29-87, Cl. 164-426.000.

Klauck, Manfred, to Flutec Fluidtechnische Gerate GmbH. Central body to which are connected both a driving motor and a pump. 4,695,232, 9-22-87, Cl. 417-410.000.

Klaue, Kaj, to Synthes Ltd. (U.S.A.). Intramedullary nail. 4,705,027, 11-10-87, Cl. 128-92.0YY.

Klauenberg, Gunter: *See—*

Klimmek, Helmut; and Klauenberg, Gunter, 4,666,635, Cl. 260-409.000.

Klimmek, Helmut; and Klauenberg, Gunter, 4,670,416, Cl. 502-259.000.

Klauke, Erich; Baasner, Bernd; and Schundehutte, Karl H., to Bayer Aktiengesellschaft. New pyrimidines and a process for the preparation of pyrimidines. 4,716,229, 12-29-87, Cl. 544-334.000.

Klauke, Erich: *See—*

Baasner, Bernd; and Klauke, Erich, 4,703,121, Cl. 544-317.000.

Forster, Heinz; Klauke, Erich; Priesnitz, Uwe; Riebel, Hans-Jochem; Eue, Ludwig; and Schmidt, Robert R., 4,657,577, Cl. 71-86.000.

Forster, Heinz; Diehr, Hans-Joachim; Maurer, Fritz; Klauke, Erich; Eue, Ludwig; Santel, Hans-Joachim; Schmidt, Robert R.; Reinecke, Paul; and Hanssler, Gerd, 4,708,731, Cl. 71-90.000.

Gehring, Reinhold; Klauke, Erich; Schallner, Otto; Stetter, Jorg; Santel, Hans-Joachim; and Schmidt, Robert R., 4,668,280, Cl. 71-92.000.

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Leuner, Hanscarl; and Klaumunzer, Hartwig, 4,665,926, Cl. 128-716.000.

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Klaus, Michael; and Loeliger, Peter, to Hoffmann-La Roche Inc. Heterocyclic compounds. 4,678,793, 7-7-87, Cl. 514-311.000.

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Klauss, Walter: *See—*

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Chin, Thomas G.; Klaver, Rudy F.; and Alston, Arthur, 4,675,028, Cl. 48-180.100.

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Shank, Gordon W.; Bristol, Lloyd R.; Eby, David H.; and Kleck, Jeffrey A., 4,644,337, Cl. 340-709.000.

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Bauck, Randall C.; Radman, Anton J.; Thornock, Roy; Freeman, Robert D.; Kleczkowski, Peter; Losee, Paul D.; and Lyon, Michael, 4,658,318, Cl. 360-133.000.

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Veit, Ernst-Ludwig; and Klee, Jurgen, 4,679,723, Cl. 228-168.000.

Klee, Maurice; Peterson, Robert T.; Cochran, Gary L.; Dawson, James E.; and Anderson, Robert M., to J. I. Case Company. Operator compartment assembly. 4,682,666, 7-28-87, Cl. 180-89.130.

Kleeb, Thomas R., to Dresser Industries, Inc. Abrasion resistant refractory composition. 4,680,279, 7-14-87, Cl. 501-124.000.

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Schlett, Paul E.; Peterson, John R.; Caprio, James A.; and Kleeb, Thomas R., 4,656,146, Cl. 501-124.000.

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Giray, Guenes; Huthmacher, Klaus; Kleemann, Axel; and Lied, Thomas, 4,705,867, Cl. 549-39.000.

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Decker, Oscar C., Jr.; and Kleemann, Eugene, 4,681,148, Cl. 152-431.000.

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Klose, Sigmar; Pasch, Manfred; Schlumberger, Helmut; Kleemann, Wolfgang; and Vieth, Friedhelm, 4,690,899, Cl. 436-45.000.

Kuhr, Manfred; Machat, Rudolf; Weckerle, Wolfgang; Batz, Hans-Georg; Herrmann, Rupert; Kleemann, Wolfgang; and Buschek, Herbert, 4,668,622, Cl. 435-14.000.

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Brown, Frank P., 4,660,583, Cl. 132-89.000.

Klees, Kevin J., to Eastman Kodak Company. Spatial filter useful for removing noise from video images and for preserving detail therein. 4,694,342, 9-15-87, Cl. 358-167.000.

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Klein, David A., to AMP Incorporated. Connector assembly with pre-staged terminal retainer. 4,708,662, 11-24-87, Cl. 439-353.000.

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Klein, Douglas J.: *See—*

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Klein, Elmer M.: *See—*

Campisi, Carl; Kaliszek, Andrew W.; and Klein, Elmer M., 4,663,821, Cl. 29-564.200.

Klein, Ernst, to A&A Manufacturing Co., Inc. Self-supporting cable carrier. 4,658,577, 4-21-87, Cl. 59-78.100.

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Klein, Gerhart; Gurrie, Francis; and Barella, Joseph, to Duracell Inc. Electrode terminal contact. 4,663,248, 5-5-87, Cl. 429-169.000.

Klein, Gotthold; and Peters, Henning, to Autoflug GmbH. Life-saving appliance with a gas-tight covering. 4,666,413, 5-19-87, Cl. 441-92.000.

Klein, Guenter; and Wernicke, Hans-Juergen, to Linde Aktiengesellschaft. Drying of gases with multi-layer adsorption beds. 4,636,225, 1-13-87, Cl. 55-31.000.

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Klein, Hans C., to Alfred Teves GmbH. Brake system for automotive vehicles with controllable brake force distribution. 4,657,310, 4-14-87, Cl. 303-6.00C.

Klein, Hans C., to ITT Industries, Inc. Brake system for automotive vehicles. 4,699,436, 10-13-87, Cl. 303-114.000.

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Klein, Hans-Christof, to Alfred Teves GmbH. Slip-controlled brake system. 4,659,153, 4-21-87, Cl. 303-114.000.

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Klein, Herbert H., to Unarco Industries, Inc. Knockdown storage rack with wedge connectors. 4,712,696, 12-15-87, Cl. 211-192.000.

Klein, Herman C., to McDonnell Douglas Corporation. High contrast back lit liquid crystal display system. 4,655,553, 4-7-87, Cl. 350-345.000.

Klein, Howard P.: *See—*

  Brennan, Michael E.; McDaniel, Kenneth G.; and Klein, Howard P., 4,654,376, Cl. 521-167.000.

Klein, Imrich, to Scientific Process & Research, Inc. Multiple-stage plasticating extruders. 4,637,790, 1-20-87, Cl. 425-208.000.

Klein, Joachim: *See—*

  Kahlert, Wolfgang; Klein, Joachim; Steinert, Hans-Jurgen; and Vorlop, Claus, 4,639,423, Cl. 435-287.000.

Klein, Johannes, to Klein, Schanzlin & Becker Aktiengesellschaft. Shaft seal assembly. 4,646,579, 3-3-87, Cl. 74-18.100.

Klein, Karl-Friedrich: *See—*

  Ross, Dieter; Bonewitz, Hans-Ulrich; Christiansen, Uwe; Klein, Karl-Friedrich; Mehlich, Albert; Rau, Karlheinz; Ruffing, Wolfgang; Simmat, Fritz; Steinkohl, Anton; and Takke, Ralf, 4,676,814, Cl. 65-3.120.

Klein, Karl-Heinz; and Richter, Wilfried, to Robert Bosch GmbH. Method and circuit for suppression of quantitizing noise ambiguities. 4,680,774, 7-14-87, Cl. 375-26.000.

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  Cernak, Boris; and Klein, Karol, 4,634,316, Cl. 405-229.000.

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Klein, Lester A., to Beth Israel Hospital Association, The. Method for treating obstructive prostatism. 4,660,560, 4-28-87, Cl. 128-344.000.

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  Schneider, Barbara; Hennig, Kurt; and Klein, Manfred, 4,638,722, Cl. 92-42.000.

Klein, Mark S. Wheel spoke adjuster guard. 4,695,09[illegible], 9-22-87, Cl. 301-37.0SA.

Klein, Martin G., to Energy Research Corporation. Nickel-oxygen monitor cell system. 4,661,759, 4-28-87, Cl. 320-48.000.

Klein, Max, to Klein, Max; and Crane, Frederick G., Jr. Disposable protective mask. 4,643,182, 2-17-87, Cl. 128-201.250.

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Klein, Max. Mica-polymer micro-bits composition and process. 4,710,520, 12-1-87, Cl. 521-55.000.

Klein, Max, to Crane, Frederick G., Jr.; and Klein, Max, Trustee. High temperature filter material. 4,713,285, 12-15-87, Cl. 428-283.000.

Klein, Max. Composite materials, their preparation and articles made therefrom. 4,716,062, 12-29-87, Cl. 428-36.000.

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  Klein, Max, 4,713,285, Cl. 428-283.000.

Klein, Max S., to Klein Plastic Products, Inc. Adjustable stop for merchandise display hooks. 4,699,278, 10-13-87, Cl. 211-57.100.

Klein, Michael T., and Voss, Donald J., to Motorola, Inc. Phase-coherent demodulation clock and data recovery. 4,694,257, 9-15-87, Cl. 329-50.000.

Klein, Michel: *See—*

  Weyers, Charles; Klein, Michel; and Goossens, Walter, 4,701,194, Cl. 55-228.000.

Klein, Norbert; Parisch, Jochen; and Zweigart, Gerhard, to Daimler-Benz Aktiengesellschaft. Adhesive connection arrangement for a windshield held on a body of a motor vehicle. 4,697,841, 10-6-87, Cl. 296-84.00R.

Klein, Norbert: *See—*

  Hilger, Manfred; and Klein, Norbert, 4,698,292, Cl. 430-273.000.

Klein, Paul E.; and Klein, Douglas J. Orthodontic bracket-mounted traction hook. 4,713,001, 12-15-87, Cl. 433-18.000.

Klein, Peter: *See—*

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Klein Plastic Products, Inc.: *See—*

  Klein, Max S., 4,699,278, Cl. 211-57.100.

Klein, Richard G.: *See—*

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Klein, Robert A. Side facing backrest for boats. 4,693,204, 9-15-87, Cl. 114-363.000.

Klein, Robert W.; and Foxx, Mary E., to William H. Rorer, Inc. Erythromycin/benzoyl peroxide antiacne compositions. 4,692,329, 9-8-87, Cl. 424-81.000.

Klein, Robert W., to Grumman Aerospace Corporation. Flight control system employing complementary filter. 4,697,768, 10-6-87, Cl. 244-191.000.

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  Bachmann, Ludwig; and Ruckert, Heinz-Jurgen, 4,653,721, Cl. 251-88.000.

  Gaffal, Karl; and Etzold, Frank, 4,643,593, Cl. 384-371.000.

  Klein, Johannes, 4,646,579, Cl. 74-18.100.

Klein, Sigismund, to Siemens Aktiengesellschaft. Collimator for a radiation diagnostics apparatus. 4,710,947, 12-1-87, Cl. 378-147.000.

Klein, Steven R.: *See—*

  Stephan, Kurt F.; Stephan, John T.; and Klein, Steven R., 4,654,441, Cl. 564-38.000.

Klein, Thomas A., to Lear Siegler, Inc. Crankhandle structure. 4,674,355, 6-23-87, Cl. 74-543.000.

Klein, Werner, to SKF Kugellagerfabriken GmbH. Tool for the separation of tubes. 4,633,695, 1-6-87, Cl. 72-70.000.

Klein, Werner: *See—*

  Geyer, Arthur; Kuisl, Max; Pfeiffer, Eugen; Roese, Helmut; and Klein, Werner, 4,636,364, Cl. 422-162.000.

Klein, William J., to Wastechem Corporation. Underwater compressing and cutting apparatus. 4,648,989, 3-10-87, Cl. 252-626.000.

Klein, William L.; and Sykes, Arthur R., to Calgon Corporation. Use of cationic polymers (polydimethyldialkyl ammonium chloride-acrylamide copolymers and dimethyldialkyl ammonium chloride) to increase deposition and/or retention of active agent (S) of deodorant formulations on surfaces. 4,675,178, 6-23-87, Cl. 424-65.000.

Klein, Wolf-Dieter; Feuchthofen, Alfons; Strecker, Claus; and Bonisch, Ulrich, to Veba Oel Entwicklungs-Gesellschaft mbH. Method for pretreating feedstocks for coal hydrogenation. 4,666,589, 5-19-87, Cl. 208-413.000.

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Kleinberg, Larry K. Counter-balancing microscope assembly. 4,668,057, 5-26-87, Cl. 350-515.000.

Kleinberg, Larry K., to Urban Engineering Company, Inc. System providing 3 identical optical paths and adapted for a microscope. 4,688,907, 8-25-87, Cl. 350-516.000.

Kleinberg, Leonard L., to United States of America, National Aeronautics and Space Administration. Programmable electronic synthesized capacitance. 4,644,306, 2-17-87, Cl. 333-214.000.

Kleinberg, Leonard L., to United States of America, National Aeronautics and Space Administration. Low phase noise oscillator using two parallel connected amplifiers. 4,660,000, 4-21-87, Cl. 331-56.000.

Kleinberg, Leonard L., to United States of America, National Aeronautics and Space Administration. Temperature responsive transmitter. 4,689,621, 8-25-87, Cl. 340-870.170.

Kleinberg, Robert L.: *See—*

  Chow, Edward Y.; and Kleinberg, Robert L., 4,641,724, Cl. 181-104.000.

Kleinberg, William T., to Air Products and Chemicals, Inc. Dual air pressure cycle to produce low purity oxygen. 4,702,757, 10-27-87, Cl. 62-24.000.

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Kleinberg, William T., to Air Products and Chemicals, Inc. Cycle to produce low purity oxygen. 4,704,148, 11-3-87, Cl. 62-24.000.

Kleine, Heinz: *See—*

  Grunst, Heinz; and Kleine, Heinz, 4,697,223, Cl. 361-393.000.

Kleine-Vennekate, Gerd: *See—*

  Kronschnabel, Hartmut; Goerings, Wilhelm; Bolingen, Johann; and Kleine-Vennekate, Gerd, 4,687,600, Cl. 252-627.000.

Kleine, Werner, to Gebruder Heller GmbH, Werkzeugfabrik. Tool holder for drilling machines, drilling device as well as drills and set of drills. 4,702,651, 10-27-87, Cl. 408-226.000.

Kleine, Willi; Frey, Werner; and Daweritz, Albrecht, to Wacker-Chemie GmbH. Method of inhibiting polymer deposition on reactor walls during free-radical polymerization. 4,661,569, 4-28-87, Cl. 526-62.000.

Kleineberg, Wolfgang; Ziegelbauer, Alfons; Boehringer, Harald; and Stotz, Manfred, to Daimler-Benz Aktiengesellschaft. Elastic support arrangement for a vehicle fuel pump or the like. 4,667,920, 5-26-87, Cl. 248-610.000.

Kleineberg, Wolfgang; and Scheurenbrand, Dieter, to Daimler-Benz Aktiengesellschaft. Valve arrangement for the ventilation and the venting of fuel tanks for motor vehicles. 4,697,612, 10-6-87, Cl. 137-39.000.

Kleinecke, John D.; Farag, Samir F.; and Little, Thomas R., to Siemens-Allis, Inc. Shutter assembly for a motor controller. 4,688,144, 8-18-87, Cl. 361-345.000.

Kleinecke, John D.: *See—*

  Farag, Samir F.; Kleinecke, John D.; and Smith, Randy M., 4,652,966, Cl. 361-189.000.

Kleiner, Erna: *See—*

  von Rybinski, Wolfgang; and Kleiner, Erna, 4,652,271, Cl. 44-51.000.

Kleiner, Frank: *See—*

  Kauth, Hermann; Schmidt, Manfred; Freitag, Dieter; Rudolph, Udo; and Kleiner, Frank, 4,701,554, Cl. 564-14.000.

  Zecher, Wilfried; Reinking, Klaus; and Kleiner, Frank, 4,640,970, Cl. 528-73.000.

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Meisen, Klaus; and Towes, Peter, 4,712,472, Cl. 100-37.000.

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Marsoner, Hermann; and Kleinhappl, Erich, 4,705,667, Cl. 422-68.000.

Kleinheins, Gerhard H., to Raychem GmbH. Recoverable article and method. 4,650,703, 3-17-87, Cl. 428-36.000.

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Kleinknecht, Hans P., to RCA Corporation. Optical imager with diffractive lenticular array. 4,708,436, 11-24-87, Cl. 350-162.170.

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Kemper, Christian T.; Bellows, James C.; and Kleinosky, Pamela J., 4,644,479, Cl. 364-550.000.

Kleinrahm, Rainer: *See*—

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Panster, Peter; and Kleinschmit, Peter, 4,645,847, Cl. 556-9.000.

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Strack, Hans; and Kleinschmit, Peter, 4,668,648, Cl. 502-64.000.

Strack, Hans; and Kleinschmit, Peter, 4,714,690, Cl. 502-64.000.

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Kleinstreuer, Clement, to Rensselaer Polytechnic Institute. Membrane and static mixer-moderated bioreactor with anti-fouling device. 4,636,473, 1-13-87, Cl. 435-289.000.

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Goorden, Josephus J. P. M.; Simons, Antonius J. F.; and Kleintjens, Ludovicus A. L., 4,652,675, Cl. 562-494.000.

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Kleisath, Stanley N. Electricians wire spool carrier. 4,705,283, 11-10-87, Cl. 280-47.120.

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Klemen, Donald, to General Motors Corporation. Transmission gearing arrangement. 4,683,776, 8-4-87, Cl. 74-765.000.

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Seth, J. Michael; and Klemm, James R., 4,659,014, Cl. 239-102.20

Klemm, Kurt: *See*—

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Klemm, Steven R.; and Foote, Michael R., to Amway Corporation. Dispensing pouch containing premeasured laundering compositions. 4,659,496, 4-21-87, Cl. 252-90.000.

Klemm, Steven R.: *See*—

Taylor, Roy M., Jr.; and Klemm, Steven R., 4,664,836, Cl. 252-91.000.

Klemm, Theobald: *See*—

Glaser, Dieter; and Klemm, Theobald, 4,691,450, Cl. 34-23.000.

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Klemmt, Karl-Heinz: *See*—

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Klemp, Eldon J., to Litton Systems, Inc. Fused electrical plug. 4,679,884, 7-14-87, Cl. 439-106.000.

Klempke, William D.: *See*—

Vieau, Robert G.; and Klempke, William D., 4,693,039, Cl. 51-168.000.

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Klendworth, Douglas D.: *See*—

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Bjornson, Geir; Klendworth, Douglas D.; Gardner, Lloyd E.; and Farha, Floyd E., Jr., 4,693,991, Cl. 502-220.000.

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- Klenke, Daniel J.: *See—*
  - Chen, Wen-hsiung; and Klenke, Daniel J., 4,698,672, Cl. 358-136.000.
- Klenoff, Bruce: *See—*
  - Goldfarb, Jerry; and Klenoff, Bruce, 4,682,363, Cl. 381-74.000.
- Klepacki, Frank H. Elastomeric securing means for orthodontic appliances. 4,687,441, 8-18-87, Cl. 433-8.000.
- Klepesch, Philip H. Continuous blade axial-flow friction drag pump. 4,655,680, 4-7-87, Cl. 415-90.000.
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  - Markovitch, Peter; and Klepesch, Philip H., 4,641,498, Cl. 60-641.200.
- Klepper, Guy E. D.; Kornelis, Hendrik; and Alie, Jean-Claude, to Goodyear Tire & Rubber Company, The. Pneumatic tire. 4,667,722, 5-26-87, Cl. 152-543.000.
- Klepper, John R.; Reid, John M.; Miwa, Hirohide; Shimura, Takaki; and Murakami, Keiichi. Apparatus for measuring the characteristics of an ultrasonic wave medium. 4,648,276, 3-10-87, Cl. 73-599.000.
- Klepsch, Wilhelm; and Plobst, Dietmar, to Senoplast Klepsch & Co. Thermoplastic sheet forming device. 4,695,239, 9-22-87, Cl. 425-194.000.
- Kleschick, William A.; Vinogradoff, Anna P.; and Dunbar, Joseph E., to Dow Chemical Company, The. Herbicidal sulfonamides. 4,638,075, 1-20-87, Cl. 558-5.000.
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- Kleschick, William A.: *See—*
  - Pearson, Norman R.; and Kleschick, William A., 4,685,958, Cl. 71-93.000.
- Kletscher, Barrie D.: *See—*
  - De Kelaita, Nergal R.; Hall, Joe T.; and Kletscher, Barrie D., 4,713,758, Cl. 364-200.000.
- Klett, Siegfried: *See—*
  - Peter, Gunter; and Klett, Siegfried, 4,644,976, Cl. 138-31.000.
- Kley France: *See—*
  - Gautron, Maurice, 4,652,166, Cl. 403-41.000.
- Kleykamp, Donald L., to Dayco Products, Inc. Hatch cover for hopper cars. 4,644,874, 2-24-87, Cl. 105-377.000.
- Kleykamp, Donald L., to Dayco Products, Inc. Method of making a holddown bar for a hatch cover of a railroad car. 4,684,418, 8-4-87, Cl. 156-91.000.
- Kleylein, Horst. Knee orthosis. 4,700,698, 10-20-87, Cl. 128-80.00C.
- Klibanov, Alexander M., to Massachusetts Institute of Technology. Enzymatic separation of racemic mixtures of hydroxy compounds. 4,659,671, 4-21-87, Cl. 435-280.000.
- Klicek, Michael S., to Valleylab, Inc. Electrosurgical generator with improved circuitry for generating RF drive pulse trains. 4,658,820, 4-21-87, Cl. 128-303.140.
- Klie, Juergen; and Weiss, Hans-Wilhelm, to G. Dusterloh GmbH. Pneumatic starter. 4,679,533, 7-14-87, Cl. 123-179.00F.
- Klie, Jurgen; and Beyer, Rudolf, to G. Dusterloh, GmbH. Hydraulically actuated piston machine with bearing for connecting piston to piston rod. 4,690,038, 9-1-87, Cl. 92-181.00R.
- Klie, Jurgen; and Weiss, Hans-Wilhelm, to G. Dusterloh GmbH. Geared compressed air starter. 4,699,095, 10-13-87, Cl. 123-179.00F.
- Klieman, Charles H.; and Densmore, Richard M. Spring activated hemostatic clip applicator. 4,674,504, 6-23-87, Cl. 128-325.000.
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- Klier, Richard G.: *See—*
  - Brown, Reed S.; Consoli, John J.; and Klier, Richard G., 4,712,236, Cl. 379-433.000.
- Kliethermes, Andrew J.: *See—*
  - Kieffer, Vernon E.; and Kliethermes, Andrew J., 4,658,492, Cl. 29-564.600.
- Kliever, Leland B.: *See—*
  - Falk, John C.; and Kliever, Leland B., 4,659,766, Cl. 524-504.000.
- Kliklok Corporation: *See—*
  - Cargile, John W., Jr., 4,706,879, Cl. 229-194.000.
- Klikos, Zdenek: *See—*
  - Fricker, Wolfgang; and Klikos, Zdenek, 4,649,835, Cl. 110-336.000.
- Klimacek, Dusan: *See—*
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  - Kostylev, Alexandr D.; Ivinsky, Vasily I.; Filonov, Alexandr D.; and Klimashko, Vladimir V., 4,683,960, Cl. 173-91.000.
- Klimczak, William J.; and Wells, Rano R., to Wehr Corporation. Dust collector with deflector means. 4,666,472, 5-19-87, Cl. 55-96.000.
- Klimenov, Alexandr M.: *See—*
  - Gradoboev, Vladimir T.; Sitnikov, Alexandr E.; Klimenov, Alexandr M.; and Melnikov, Leonid I., 4,690,267, Cl. 198-396.000.
- Klimesch, Erich: *See—*
  - Kundinger, Ernst F.; Klimesch, Erich; Zengel, Hans G.; and Lasher, Jeffrey D., 4,675,246, Cl. 428-336.000.
  - Kundinger, Ernst F.; Klimesch, Erich; Zengel, Hans-Georg; and Lasher, Jeffery D., 4,699,841, Cl. 428-332.000.
  - Kundinger, Ernst F.; Klimesch, Erich; Zengel, Hans-Georg; and Lasher, Jeffery D., 4,705,720, Cl. 428-332.000.
- Klimetzek, Volker: *See—*
  - Grohe, Klaus; Klimetzek, Volker; Metzger, Karl G.; Stunkel, Klaus G.; and Zeiler, Hans-Joachim, 4,659,603, Cl. 424-88.000.
- Klimezky, Frank: *See—*
  - Caudill, William; and Klimezky, Frank, 4,643,607, Cl. 403-194.000.
- Klimke, Walter: *See—*
  - Hoffman, Reinhold; and Klimke, Walter, 4,691,865, Cl. 239-690.000.
- Klimley, William R.: *See—*
  - Modugno, Joseph J.; and Klimley, William R., 4,635,916, Cl. 271-3.000.
- Klimmeck, Dietrich A.: *See—*
  - Teske, Artur; and Klimmeck, Dietrich A., 4,639,097, Cl. 350-507.000.
- Klimmek, Helmut; and Klauenberg, Gunter, to Internationale Octrooi Maatschappij "Octropa" B.V. Nickel-based catalyst, its preparation and its application. 4,666,635, 5-19-87, Cl. 260-409.000.
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- Klimo, Robert G., to Invacare Corporation. Electric wheelchair with improved control circuit. 4,634,941, 1-6-87, Cl. 318-139.000.
- Klimov, Sergei B.: *See—*
  - Negruisky, Sergei B.; Klimov, Sergei B.; Negrutsky, Boris F.; and Churkin, Vladimir G., 4,712,772, Cl. 254-264.000.
- Klimovich, Elena I.: *See—*
  - Shagiman, Albert S.; Pevnev, Anatoly A.; Asan-Dzhalalov, Alexei G.; Androsenko, Alexandr P.; Paikin, Leonid N.; and Klimovich, Elena I., 4,650,235, Cl. 294-88.000.
- Klimovskoe Spetsialnoe Konstruktorskoe Bjuro Po Proektirovaniju Tkatskogo Oborudovania: *See—*
  - Gendelman, Mikhail A.; Borodulin, Anatoly F.; Golubeva, Diana F.; and Bychkov, Sergei V., 4,694,867, Cl. 139-192.000.
- Klimowicz, Mark C.: *See—*
  - Curtis, Walter B.; Davis, Gregory L.; and Klimowicz, Mark C., 4,715,310, Cl. 114-220.000.
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  - Gelbert, Horst; Grimm, Walter; Kiessling, Michael; Newiger, Winfried; Walch, Wolfgang; and Werner, Hans, 4,666,294, Cl. 355-89.000.
- Klimsch & Co. KG: *See—*
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- Klimt, Ulrich: *See—*
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- Klinchuch, John F., to Rockwell International Corporation. Turbine-driven linear controller for electromechanical device and method. 4,656,404, 4-7-87, Cl. 318-558.000.
- Klindera, William M., to Calgon Corporation. Mercaptobenzothiazole and tolyltriazole corrosion inhibiting compositions. 4,675,158, 6-23-87, Cl. 422-16.000.
- Kline, Eric: *See—*
  - Kea, Sandra; Walker, Charles E.; and Kline, Eric, 4,683,299, Cl. 536-119.000.
- Kline, Harvey E.: *See—*
  - Wilson, George S.; Kline, Harvey E.; and Mackey, Joseph E., 4,702,956, Cl. 428-251.000.
- Kline, Kevin B., to ITT Corporation. Steam trap. 4,664,138, 5-12-87, Cl. 137-183.000.
- Kline, Larry R.: *See—*
  - Tobias, Jackie L.; Kline, Larry R.; and Moser, Ted O., 4,699,764, Cl. 420-563.000.
- Kline, Lawrence E.: *See—*
  - Chantry, Pete J.; Denes, Louis J.; and Kline, Lawrence E., 4,670,883, Cl. 372-57.000.
- Kline, Leonard J., Jr.; and Forsyth, Thomas C., III, to Ametek, Inc. Motor cooling fan housing. 4,684,835, 8-4-87, Cl. 310-59.000.
- Kline, Leonard J., Jr.: *See—*
  - Forsyth, Thomas C., III; Kline, Leonard J., Jr.; and McCauley, Daniel F., 4,669,952, Cl. 415-119.000.
  - Smith, Francis E.; Hyatt, Robert L.; and Kline, Leonard J., Jr., 4,698,514, Cl. 310-89.000.
- Kline, Mark L.; and Ross, Oakley G., to General Dynamics, Pomona Division. Clear aperture cryostat for an infrared detector. 4,647,778, 3-3-87, Cl. 250-352.000.
- Kline, Mark L.: *See—*
  - Ross, Oakley G.; Kline, Mark L.; and Wedertz, Larry D., 4,648,926, Cl. 156-158.000.
- Kline, Michael S. Golf article retaining device. 4,699,303, 10-13-87, Cl. 224-252.000.
- Kline, Roy A. Holder for football place-kicking practice. 4,634,122, 1-6-87, Cl. 273-55.00B.
- Klinedinst, Keith A.; and Gary, Richard A., to GTE Laboratories Incorporated. Electrochemical cell. 4,684,583, 8-4-87, Cl. 429-48.000.
- Kling, Bernard; Mongin, Roger; and Leguennec, Michel, to Commissariat a l'Energie Atomique. Optical connector, process for the

production of said connector and fibre-fibre and diode-fibre connections obtained with this connector. 4,673,245, 6-16-87, Cl. 350-96.200.

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  - Durbin, Roger W.; Kling, John P.; and Schroeder, James L., III, 4,652,842, Cl. 333-182.000.
- Kling, Michael R.; and Shaffer, John W., to GTE Products Corporation. Glow discharge starter containing thorium for improving dark starting. 4,646,049, 2-24-87, Cl. 337-27.000.
- Kling, Michael R.; and Audesse, Emery G., to GTE Products Corporation. Glow discharge starter. 4,646,050, 2-24-87, Cl. 337-27.000.
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  - Thoma, Wilhelm; Pedain, Josef; Schroer, Walter; and Kling, Waldemar, 4,657,613, Cl. 156-238.000.
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  - David, Bernd; and Klingberg, Alfred. 4,709,786, Cl. 187-9.00E.
- Klingberg, Gerd: *See—*
  - Spielau, Paul; Kuhnel, Werner; Klaar, Karlo; Gaspar, Bertram; Weiss, Richard; Ulb, Horst; Breitscheidel, Hans-Ulrich; Klingberg, Gerd; and Fenske, Jurgen. 4,652,326, Cl. 156-244.110.
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  - Niederhauser, Alois; and Seibel, Klaus, 4,663,354, Cl. 514-649.000.
  - Stanislaus, Friedrich; Hofer, Josef M.; and Knoch, Axel. 4,704,406, Cl. 514-570.000.
- Klingel, Hans, to Trumpf GmbH & Co. Laser apparatus with novel beam aligning means and method of laser processing of workpieces using same. 4,675,501, 6-23-87, Cl. 219-121.0LG.
- Klingel, Hans. Folded CO_2 laser. 4,679,201, 7-7-87, Cl. 372-61.000.
- Klingel, Hans, to Trumpf GmbH & Co. Computer controlled machine for punching and thermal cutting of workpieces. 4,698,480, 10-6-87, Cl. 219-121.0LG.
- Klingel, Reinhard: *See—*
  - Ginter, Herbert; Klingel, Reinhard; and Manner, Reinhard, 4,680,043, Cl. 65-2.000.
- Klingen, Jurgen; and Zimmerman, Patrick G., to Minnesota Mining and Manufacturing Company. Pressure-sensitive adhesive tape containing hydrophobic silica. 4,710,536, 12-1-87, Cl. 524-493.000.
- Klingen, Leonard G. Uniquely numbered baggage split tag and system for handling baggage. 4,634,849, 1-6-87, Cl. 235-487.000.
- Klingenhoff, Herbert: *See—*
  - Campbell, Ira J.; Morris, John L., Jr.; Whalen, Thomas J.; Fields, Frederick R.; and Klingenhoff, Herbert, 4,668,133, Cl. 408-81.000.
- Klingenschmitt, Carl E.; and Clausen, Elmer B., to Textron Inc. Frequency agile radar system. 4,675,678, 6-23-87, Cl. 342-34.000.
- Klingensmith, James D.: *See—*
  - Stemler, J. Robert; Klingensmith, James D.; Menzemer, Craig C.; Kulicki, John M.; and Theofanis, Nicholas D., 4,709,435, Cl. 14-73.000.
  - Trostle, John W.; and Klingensmith, James D., 4,643,080, Cl. 98-42.210.
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  - Adkins, Ernest, 4,690,413, Cl. 277-199.000.
- Klinger, A.G. Zug: *See—*
  - Suggs, James W., III, 4,667,969, Cl. 277-230.000.
- Klinger, Barney, to Applied Energy, Inc. Enhanced recovery of subterranean deposits by thermal stimulation. 4,641,710, 2-10-87, Cl. 166-303.000.
- Klingler, Josef F., to Janler Corporation. Drinking cup construction. 4,643,326, 2-17-87, Cl. 220-94.00R.
- Klingler, Otto; and Linder, Kurt, to Mauser-Werke Oberndorf GmbH. Sensing head for a measuring machine. 4,660,296, 4-28-87, Cl. 33-559.000.
- Klingler, Robert J.: *See—*
  - Rathke, Jerome W.; Klingler, Robert J.; and Heiberger, John J., 4,656,152, Cl. 502-170.000.
- Klingseisen, Paul: *See—*
  - Bongard, James A.; Delaney, Michael J.; Duncan, Eugene F.; Fredricks, Cheryl A.; Groves, John P.; Kalista, Daniel J.; Klingseisen, Paul; Lazzaro, Joseph; and Nadolski, Gregory L., 4,678,867, Cl. 174-135.000.
- Klingstedt, Holger, to Crenova AB. Sleeve for interconnecting rods provided with threads. 4,671,698, 6-9-87, Cl. 403-341.000.
- Klink and Aaron Products, Ltd.: *See —*
  - Aaron, Alford, 4,664,381, Cl. 273-75.000.
- Klink, Rainer, to Deutsche Automobilgesellschaft mbH. Welding ring arrangement. 4,671,447, 6-9-87, Cl. 228-50.000.
- Klink, Rainer: *See—*
  - Henkel, Eberhard; Dolabdjian, Barkew; Helger, Roland; Klink, Rainer; and Wurzburg, Uwe, 4,698,300, Cl. 435-18.000.
- Klink, Winfred. Electrical contact making arrangement for monitoring the condition of a screw in an installed position. 4,713,506, 12-15-87, Cl. 200-158.000.
- Klinkel, Wolfgang, to ILAPAK Research & Development S.A. Tubular bag closing machine. 4,713,047, 12-15-87, Cl. 493-34.000.
- Klinker, Patricia K.: *See—*
  - Klinker, Ronald D.; Clark, Franklin D.; and Klinker, Patricia K., 4,699,596, Cl. 440-39.000.
- Klinker, Rolf: *See—*
  - Conrad, Ulrich; Keilermann, Guenter; Breymayer, Angela; Klinker, Rolf; Schuldt, Oswald; Hoffmann, Rainer; and Fabian, Frank-Dietrich, 4,709,548, Cl. 60-280.000.
- Klinker, Ronald D.; Clark, Franklin D.; and Klinker, Patricia K. Modified jet ski nozzle. 4,699,596, 10-13-87, Cl. 440-39.000.
- Klinkhamer, Arend J.: *See—*
  - Pals, Jan A.; and Klinkhamer, Arend J., 4,686,759, Cl. 437-51.000.
- Klinkner, Walter; and Schmidt, Fritz, to Daimler-Benz Aktiengesellschaft. Apparatus for the road-surface-dependent control of shock absorbers in a vehicle suspension system. 4,685,698, 8-11-87, Cl. 280-707.000.
- Klinkowski, Peter R., to Dorr-Oliver Incorporated. Dialyzing electrofilter with improved electrode. 4,668,361, 5-26-87, Cl. 204-182.300.
- Klinkowski, Peter R., to Dorr-Oliver Incorporated. Electrode assembly and process for electrically augmented vacuum filtration. 4,670,118, 6-2-87, Cl. 204-182.200.
- Klinner, Wilfred E., to National Research Development Corporation. Crop engaging device. 4,660,362, 4-28-87, Cl. 56-364.000.
- Klinner, Wilfred E., to National Research Development Corporation. Crop engaging apparatus and methods. 4,671,051, 6-9-87, Cl. 56-16.400.
- Klinner, Wilfred E., to National Research Development Corporation. Crop engaging device and method. 4,696,154, 9-29-87, Cl. 56-364.000.
- Klintenstedt, Kjell; Foldhazy, Zoltan; and Forsberg, Bjorn, to Alfa-Laval AB. Centrifugal separator. 4,710,160, 12-1-87, Cl. 494-64.000.
- Klintholm, Lars: *See—*
  - Broddner,[1] Sven M.; Hogman, Leif B.; Nyman, Rune; and Klintholm, Lars, 4,657,008, Cl. 128-203.270.
- Klintz, Jerry A.: *See—*
  - Anderson, Robert L.; Pilarski, James A.; and Klintz, Jerry A., 4,639,653, Cl. 318-599.000.
- Klinvex, Daniel E.; Crusi, Suzanne B.; Kepes, William E.; and Vano, Joseph A., to Westinghouse Electric Corp. Universal tool for ultrasonic testing of nuclear reactor vessels. 4,642,215, 2-10-87, Cl. 376-249.000.
- Klinvex, Daniel E., to Westinghouse Electric Corp. Ultrasonic probe for the remote inspection of nuclear reactor vessel nozzles. 4,643,029, 2-17-87, Cl. 73-632.000.
- Klipper, Reinhold M.: *See—*
  - Wolff, Joachim; Koll, Jochen; Wolf, Karlheinz; Klipper, Reinhold M.; and Lange, Peter M., 4,702,744, Cl. 8-527.000.
- Klitgaard, Peter C.; and Pedersen, Knud G., to Radiometer A/S. Electrode device for transcutaneously measuring a blood gas parameter and for sensing a bioelectrical signal and an electrode assembly comprising such an electrode device. 4,685,465, 8-11-87, Cl. 128-635.000.
- Klitzke, Loren J.: *See—*
  - Seiter, George M.; Klitzke, Loren J.; and Nelson, Iver L., 4,643,878, Cl. 422-101.000.
- Klivans, Dean S.: *See—*
  - Del Mundo, Alfredo R.; and Klivans, Dean S., 4,659,268, Cl. 411-34.000.
- Klobenzer, Heinz; and Hosel, Peter, to Durr GmbH. Method and apparatus for reprocessing aqueous, oily and greasy cleaning solutions. 4,686,049, 8-11-87, Cl. 210-774.000.
- Klobucar, W. Dirk: *See—*
  - Kolich, Charles H.; and Klobucar, W. Dirk, 4,698,439, Cl. 558-80.000.
- Klock, John C.: *See—*
  - Mielke, C. Harold; Scannon, Patrick J.; Sohmer, Paul R.; and Klock, John C., 4,664,913, Cl. 424-101.000.
- Klocke, Donald J.: *See—*
  - Bell, Weldon K.; Haag, Werner O.; Kirker, Garry W.; and Klocke, Donald J., 4,686,313, Cl. 585-327.000.
  - Dwyer, Francis G.; and Klocke, Donald J., 4,650,656, Cl. 423-329.000.
- Klocker-Entwicklungs-GmbH: *See—*
  - Klocker, Heinrich J., 4,671,327, Cl. 139-54.000.
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- Klocker, Peter: *See—*
  - Schmetz, Peter-Nikolaus; and Klocker, Peter, 4,691,825, Cl. 206-380.000.
- Klockner-Becorit GmbH: *See—*
  - Lubojatsky, Walter; Lachner, Hans; and Seebacher, Gerald, 4,679,856, Cl. 299-11.000.
  - Nowak, Dieter, 4,708,396, Cl. 299-34.000.
  - Oldengott, Michael; Schade, Jorg; and Stephan, Peter, 4,669,674, Cl. 241-101.700.
- Klockner CRA Technologie GmbH: *See—*
  - Abratis, Horst; Obenaus, Roman; and Schafer, Klaus, 4,647,306, Cl. 75-49.000.
  - Brotzmann, Karl; and Mantey, Paul-Gerhard, 4,673,167, Cl. 266-281.000.
  - Fassbinder, Hans-Georg, 4,700,578, Cl. 73-861.370.
  - Fritz, Ernst, 4,702,462, Cl. 266-225.000.
- Klockner Ferromatik Desma GmbH: *See—*
  - Pontius, Klaus; Settinger, Manfred; and Oster, Lothar, 4,678,343, Cl. 366-349.000.
  - Stengelin, Ernst, 4,687,431, Cl. 425-229.000.
- Klockner-Humboldt-Deutz AG: *See—*
  - Lichtblau, Leo, 4,667,635, Cl. 123-41.800.
- Klockner-Humboldt-Deutz AG Zweigniederlassung Fahr: *See—*
  - Glunk, Josef, 4,691,504, Cl. 56-192.000.
  - Schaible, Siegfried; and Schneble, Edwin, 4,638,623, Cl. 56-341.000.
  - Schaible, Siegfried; Wolfle, Hans-Peter; Gusewell, Eike; and Kohl, Bernhard, 4,715,175, Cl. 56-432.000.

Wessel, Ulrich, 4,700,535, Cl. 56-13.600.

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Beele, Gunther, 4,638,980, Cl. 266-44.000.

Beele, Gunther, 4,690,385, Cl. 266-44.000.

Beisner, Klaus; Gemmer, Ludwig; Zisselmar, Raimund; and Kellerwessel, Hans, 4,703,897, Cl. 241-24.000.

Haiduk, Klaus, 4,694,883, Cl. 164-186.000.

Heckmann, Wolfgang; and Epper, Wolfgang, 4,715,956, Cl. 210-363.000.

Hilbrans, Hermann; Gamroth, Michael; Melcher, Gerhard; and Megerle, Friedrich, 4,639,269, Cl. 75-76.000.

Komp, Hermann-Josef, 4,638,878, Cl. 180-89.130.

Kramer, Paul, 4,668,213, Cl. 494-8.000.

Kreutz, Josef, 4,669,564, Cl. 180-89.120.

Melcher, Gerhard; Megerle, Friedrich; and Wuth, Wolfgang, 4,666,132, Cl. 266-182.000.

Olszewski, Jerzy D.; and Olszewski, Jan D., 4,664,647, Cl. 474-174.000.

Partz, Klaus-Dieter, 4,645,068, Cl. 198-676.000.

Rizk, Reda; and Michels, Hans-Gottfried, 4,653,723, Cl. 251-282.000.

Roggendorff, Martin, 4,696,262, Cl. 123-41.690.

Schaible, Siegfried; Hohlwegler, Heinz; and Kohl, Bernhard, 4,711,078, Cl. 56-341.000.

Schmittbetz, Klaus, 4,711,460, Cl. 280-460.00A.

Schmitz, Axel, 4,656,888, Cl. 74-493.000.

Schmitz, Christoph; and Kraxner, Istvan, 4,671,497, Cl. 266-172.000.

Schutte, Klaus; and Stockmann, Helmut, 4,651,933, Cl. 241-34.000.

Steinbiss, Eberhard; Herchenbach, Horst; and Wolter, Albrecht, 4,640,681, Cl. 432-14.000.

Tholen, Paul, 4,660,532, Cl. 123-563.000.

Wahnschaffe, Jurgen; Hartmann, Ernst-Siegfried; Casper, Karl-Josef; zur Nieden, Achim; and Schleiermacher, Herbert, 4,672,923, Cl. 123-41.740.

Wallenfang, Gerd, 4,699,520, Cl. 374-183.000.

Weber, Thomas, 4,712,371, Cl. 60-39.142.

Wolter, Albrecht; and Herchenbach, Horst, 4,634,583, Cl. 423-244.000.

Wolter, Albrecht; Hartmann, Rolf; Herchenbach, Horst; and Grisar, Alexander, 4,640,203, Cl. 110-346.000.

Klockner, Jurgen: *See—*

Rohde, Wolfgang; and Klockner, Jurgen, 4,711,109, Cl. 72-8.000.

Klockner Wilhelmsburger GmbH: *See—*

Flindt, Werner; and Noll, Hans, 4,679,722, Cl. 228-168.000.

Kloczewiak, Marek: *See—*

Hawiger, Jack J.; Timmons, Sheila; Lukas, Thomas J.; and Kloczewiak, Marek, 4,661,471, Cl. 514-13.000.

Hawiger, Jack J.; Timmons, Sheila; and Kloczewiak, Marek, 4,666,884, Cl. 514-13.000.

Hawiger, Jack J.; Timmons, Sheila; and Kloczewiak, Marek, 4,703,039, Cl. 514-21.000.

Klodnicki, Edward J.: *See—*

Cotton, Robert V.; and Klodnicki, Edward J., 4,688,108, Cl. 358-257.000.

Kloeber GmbH & Co.: *See—*

Steinmann, Joachim, 4,709,962, Cl. 297-301.000.

Kloeckner Stahlforschung GmbH: *See—*

Fassbinder, Hans-Georg, 4,662,798, Cl. 406-14.000.

Kloehn, Kurt J.; and Dolan, Kevin G., to Kimberly-Clark Corporation. Method and apparatus for making a curved hem on a moving web of fabric. 4,650,532, 3-17-87, Cl. 156-204.000.

Kloes, Kenneth A.: *See—*

Kearton, William B.; Kloes, Kenneth A.; and Terry, Joel R., 4,708,844, Cl. 376-247.000.

Kloetzer, Dietrich: *See—*

Linde, Karl-Heinz; and Kloetzer, Dietrich, 4,675,128, Cl. 252-549.000.

Klofec, Miroslav: *See—*

Smidrkal, Jan; Simunek, Jaroslav; Tolman, Jiri; Soucek, Jiri; Novacek, Alois; Novak, Jan; Krob, Vaclav; Kovar, Pavel; Klofec, Miroslav; and Vondracek, Bohumir, 4,637,894, Cl. 252-186.400.

Kloft, Michael: *See—*

Jonas, Rochus; Kloft, Michael; Wurziger, Hanns; Harting, Juergen; Enenkel, Hans J.; Minck, Klaus-Otto; and Schliep, Hans-Jochen, 4,654,344, Cl. 514-248.000.

Klohn, William L.: *See—*

Rice, James S.; and Klohn, William L., 4,641,850, Cl. 280-289.0WC.

Kloiber, Gerald, to Siemens Aktiengesellschaft. Electrical resistor with a negative temperature coefficient for incremental resistance values and method for manufacturing same. 4,695,818, 9-22-87, Cl. 338-22.00R.

Klok, Alexandr B.: *See—*

Yantsen, Ivan A.; Bekishev, Kenes K.; Savchak, Orest G.; Klok, Alexandr B.; Zhanabaev, Tolgat M.; Pakshtas, Mechislav-Valentinas K.; Glotov, Boris N.; Fink, Garold K.; Timkin, Alexel F.; Zorin, Nikolai I.; and Bobylev, Leonid M., 4,658,913, Cl. 173-134.000.

Kloker, Kevin L., to Motorola, Inc. Method and apparatus for minimizing overhead when executing nested do loops. 4,652,997, 3-24-87, Cl. 364-200.000.

Kloker, Kevin L., to Motorola, Inc. Data processor control unit having an interrupt service using instruction prefetch redirection. 4,709,324, 11-24-87, Cl. 364-200.000.

Kloker, Kevin L.; and Cieslak, Ronald H., to Motorola, Inc. Exclusive OR/NOR gate having cross-coupled transistors. 4,713,790, 12-15-87, Cl. 364-784.000.

Kloker, Werner: *See—*

Meier, Helmut-Martin; Dhein, Rolf; Winkel, Jens; Klein, Gerhard; and Kloker, Werner, 4,634,791, Cl. 560-163.000.

Meier, Helmut-Martin; Dhein, Rolf; Winkel, Jens; Klein, Gerhard; and Kloker, Werner, 4,673,713, Cl. 525-278.000.

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Klomfass, Roy D., to Laursen, Jorn, a part interest. Self inflatable air deflector. 4,707,015, 11-17-87, Cl. 296-1.00S.

Klomp, Edward D., to General Motors Corporation. Squish control engine. 4,643,142, 2-17-87, Cl. 123-90.280.

Klomp, Edward D., to General Motors Corporation. Air-assist fuel injection nozzle. 4,693,420, 9-15-87, Cl. 239-87.000.

Klomp, Edward D., to General Motors Corporation. Spare tire installation without conventional jack. 4,708,400, 11-24-87, Cl. 301-38.00S.

Klompenburg, Marlo V., to Rolscreen Company. Sliding window construction. 4,682,455, 7-28-87, Cl. 52-207.000.

Kloots, Jacobus. Fiberoptic cables with angled connectors. 4,653,848, 3-31-87, Cl. 350-96.220.

Klop, Elmer P., to Enterprise Brass Works, Inc. Locking lid for overfill-spillage protection system. 4,637,522, 1-20-87, Cl. 220-322.000.

Klop, Elmer P.; and LeBlanc, Leo J., to Enterprise Brass Works, Inc. Breakaway hose coupling. 4,646,773, 3-3-87, Cl. 137-68.100.

Klopfenstein, Albert: *See—*

Koenig, Richard F.; Klopfenstein, Albert; and Sockwell, C. Leon, 4,653,796, Cl. 296-35.100.

Klopp, James L., to Cajon Company. Protective cap. 4,694,863, 9-22-87, Cl. 138-96.00R.

Klopper, Friedrich: *See—*

Gerloff, Klaus; Menell, Hans; Bark, Ludolf; Klopper, Friedrich; and de Vries, Gerhard, 4,666,392, Cl. 425-190.000.

Klopsch, Siegfried: *See—*

Colditz, Armin; and Klopsch, Siegfried, 4,691,229, Cl. 358-76.000.

Jung, Eggert; and Klopsch, Siegfried, 4,639,770, Cl. 358-76.000.

Kloreyzk, Fredrick J.: *See—*

Wilhelm, John J.; Burack, Robert D.; Kloreyzk, Fredrick J.; and Crossley, Thomas J., 4,671,326, Cl. 138-93.000.

Klos, Heinrich, to Mageba Textilmaschinen GmbH. Ribbon and method and mechanism for making the same. 4,688,598, 8-25-87, Cl. 139-383.00R.

Klos, Klaus-Peter; Lindemann, Karl-Heinz; and Birnstiel, Willi, to Elektro-Brite GmbH. Acidic chromium containing coating solution for zinc or cadmium surfaces. 4,705,576, 11-10-87, Cl. 148-6.200.

Klos, Terry J.: *See—*

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Klose, Hans-Ulrich: *See—*

Rach, Heinz-Dieter; Klose, Hans-Ulrich; and Frerichs, Udo, 4,635,697, Cl. 152-544.000.

Klose, Odo: *See—*

Gottwald, Adolf; Klose, Odo; and Koster, Wilfried, 4,662,768, Cl. 401-139.000.

Klose, Reinhard, to Salzgitter Industriebau GmbH. Method and system for the preparation of a highly concentrated mineral slurry having substantially constant identifying characteristics. 4,706,892, 11-17-87, Cl. 241-16.000.

Klose, Sigmar; Pasch, Manfred; Schlumberger, Helmut; Kleemann, Wolfgang; and Vieth, Friedhelm, to Boehringer Mannheim GmbH. Process and device for carrying out analytical determinations. 4,690,899, 9-1-87, Cl. 436-45.000.

Klose, Sigmar: *See—*

Baier, Manfred; Jering, Helmut; and Klose, Sigmar, 4,670,383, Cl. 435-7.000.

Klose, Thomas R.: *See—*

Hung, Yann; Klose, Thomas R.; Regan, Michael T.; and Rossi, Louis J., 4,701,396, Cl. 430-58.000.

Klosiewicz, Daniel W., to Hercules Incorporated. Dicyclopentadiene polymer containing elastomer. 4,657,981, 4-14-87, Cl. 525-211.000.

Klosiewicz, Daniel W., to Hercules Incorporated. N-alkyl methacrylate modified polypropylene. 4,664,984, 5-12-87, Cl. 428-516.000.

Klosiewicz, Daniel W., to Hercules Incorporated. Method of cycloolefin polymerization. 4,699,963, 10-13-87, Cl. 526-142.000.

Klosowski, Jerome M.; Meddaugh, Michael D.; Sykes, Paul B.; and Wright, Antony P., to Dow Corning Corporation. Room temperature curing compositions containing tetrafunctional ethoxy-ketoximo silane crosslinkers. 4,657,967, 4-14-87, Cl. 524-860.000.

Klosowski, Jerome M.: *See—*

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Kloss, Gerhard: *See—*

Kleiner, Hans-Jerg; Kloss, Gerhard; Molter, Michael; Schwarz, Alexander; and Thamm, Horst-Dieter, 4,693,884, Cl. 424-1.100.

Kloss, Henry E.: *See—*

Todd, Lee T., Jr.; and Kloss, Henry E., 4,669,069, Cl. 367-96.000.

Kloss, Thomas M., Jr., to Gila River Products, Inc. Method and apparatus for laminating flexible printed circuits. 4,690,845, 9-1-87, Cl. 428-40.000.

Kloster, Kenneth D. Spring compressor with latchable locking device. 4,679,780, 7-14-87, Cl. 267-177.000.

Klosterhalfen, Hartwig: *See—*

Dombrowski, Theodor; and Klosterhalfen, Hartwig, 4,667,546, Cl. 82-1.00C.

Dombrowski, Theodor; and Klosterhalfen, Hartwig, 4,693,146, Cl. 82-2.00B.

Lung, Dieter; Kluft, Werner; Fabry, Jochen; Wittkopp, Helmut; Dombrowski, Theodor; and Klosterhalfen, Hartwig, 4,711,146, Cl. 82-1.00C.
Klotz, Clayton J.: *See—*
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Klotz, Helmut: *See—*
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Klotzer, Sieghart; Mucke, Bruno; Mahlberg, Gunther; and Becker, Manfred, to Agfa Gevaert Aktiengesellschaft. Color photographic recording material containing a silver halide emulsion and a process for its production. 4,705,747, 11-10-87, Cl. 430-550.000.
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Klovstad, Jim: *See—*
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Klovstad, John W.; Lee, Chin-Hui; and Ganesan, Kalyan, to Exxon Research and Engineering Company. Speech recognition method having noise immunity. 4,713,777, 12-15-87, Cl. 364-513.500.
Klubitschko, Gerd, to Marker International. Step-in electronic safety ski binding. 4,657,278, 4-14-87, Cl. 280-612.000.
Kluegl, Wendelin: *See—*
Eltze, Georg; Kluegl, Wendelin; and Thoma, Frank, 4,706,627, Cl. 123-365.000.
Klueting, Bernd A., to Keiper Recaro Incorporated. Planetary seat back adjuster. 4,641,887, 2-10-87, Cl. 297-362.000.
Kluever, Harold C.: *See—*
Bidell, Frederick W.; Kluever, Harold C.; and Reed, Roger R., 4,636,583, Cl. 178-22.170.
Kluft, Werner: *See—*
Lung, Dieter; Kluft, Werner; Fabry, Jochen; Wittkopp, Helmut; Dombrowski, Theodor; and Klosterhalfen, Hartwig, 4,711,146, Cl. 82-1.00C.
Klug, Horst; Mocker, Wolfgang; Schaeffler, George; and Speil, Walter, to INA Walzlager Schaeffler KG. Self-adjusting hydraulic valve tappet. 4,709,668, 12-1-87, Cl. 123-90.550.
Klug, Leonhard: *See—*
Kuhl, Wilfried; Klug, Leonhard; Rost, Bernd; and Schilling, Wolfgang, 4,672,323, Cl. 324-460.000.
Klug, Ralph W.; Toler, Charles E.; and Rylatt, John A., to Westinghouse Electric Corp. Search and retrieval device. 4,702,878, 10-27-87, Cl. 376-249.000.
Klug, Randy J.: *See—*
Everman, Wayne F.; and Klug, Randy J., 4,698,951, Cl. 53-449.000.
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Kluge, Arthur F.; and Wu, Helen Y., to Syntex (U.S.A.) Inc. Novel 8-(lower alkyl)bicyclo[4.2.0]octane derivatives with valuable therapeutic properties. 4,678,805, 7-7-87, Cl. 514-510.000.
Kluge, Hermann, to SWF Auto-Electric GmbH. Fuel supply pump. 4,673,333, 6-16-87, Cl. 415-213.00T.
Kluge, Hermann: *See—*
Bayha, Heiner; Kluge, Hermann; and Rachner, Horst, 4,694,211, Cl. 310-71.000.
Kluger, Petra: *See—*
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Klugman, Alfred: *See—*
Kausek, James H.; Klugman, Alfred; and Donovan, William J., 4,633,867, Cl. 128-80.00C.
Kluj, Werner: *See—*
Voss, Klaus-Wilhelm; and Kluj, Werner, 4,693,398, Cl. 222-327.000.
Klumpp, Henry B. Gravity sensing switch for detecting inclination. 4,668,846, 5-26-87, Cl. 200-61.45R.
Klumpp, Walter, to Rheinmetall GmbH. Throwing device for firing incandescent bodies. 4,709,614, 12-1-87, Cl. 89-1.350.
Klumpyan, Joseph N.: *See—*
Ross, Richard J.; and Klumpyan, Joseph N., 4,648,457, Cl. 166-332.000.
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Klunder, Robert C.: *See—*
Glerum, Johannes A.; and Klunder, Robert C., 4,693,658, Cl. 413-1.000.
Klunk, Thomas M.: *See—*
Grabbe, Dimitry; Korsunsky, Iosif; Klunk, Thomas M.; and DiOrazio, Joseph S., 4,695,111, Cl. 439-266.000.
Klupfel, Norbert: *See—*
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Klupfel, Olaf; Frielinghaus, Walter S.; and Scholz, Erhard, to Mollers Maschinenfabrik GmbH. Device for gripping and placing members. 4,648,646, 3-10-87, Cl. 294-106.000.
Kluppel, George E., to Hudson Products Corporation. Air-cooled vapor condensers. 4,657,070, 4-14-87, Cl. 165-124.000.
Klusmier, Lawrence A., to Helix Technology Corporation. Oil cooled hermetic compressor used for helium service. 4,693,736, 9-15-87, Cl. 62-6.000.
Klusowski, Hans-Jurgen; and Schonich, Helmut, to Wankel GmbH. Axial oil seal of a rotary piston engine. 4,643,438, 2-17-87, Cl. 277-81.00P.
Kluss, Walter: *See—*
Sears, Jerome; Parfomak, Walter; and Kluss, Walter, 4,673,849, Cl. 318-272.000.
Kluth, Daniel J.; and Engel, Gary L. Test system providing testing sites for logic circuits. 4,682,329, 7-21-87, Cl. 371-15.000.
Kluth, Hans-Jurgen, to Deutsche Thomson-Brandt GmbH. Video recorder with reduced cross talk. 4,654,726, 3-31-87, Cl. 360-37.100.
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Kluth, Joachim; Muller, Klaus-Helmut; and Pfister, Theodor, to Bayer Aktiengesellschaft. 2-cyanoamino-pyrimidines. 4,711,959, 12-8-87, Cl. 544-320.000.
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Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; and Roy, Wolfgang, 4,658,027, Cl. 544-321.000.
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochim; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,659,364, Cl. 71-92.000.
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Kluttermann, Jurgen, to Trutzschler GmbH & Co. KG. Sliver coiler. 4,679,279, 7-14-87, Cl. 19-159.00R.
Kluttermann, Jurgen; and Trutzschler, Hermann, to Trutzschler GmbH & Co. KG. Sliver coiler. 4,691,413, 9-8-87, Cl. 19-159.00R.
Kluttermann, Jurgen, to Trutzschler GmbH & Co. KG. Sliver coiler drive. 4,691,414, 9-8-87, Cl. 19-159.00R.
Kluvo, Kenneth G.: *See—*
Howes, James K.; Kluvo, Kenneth G.; Rex, Donald K.; and White, Graham M., 4,671,686, Cl. 400-605.000.
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KM-Engineering AG: *See—*
Kimbell, John; and Uehlinger, Werner, 4,697,688, Cl. 198-339.100.
Uehlinger, Werner H.; and Franek, Jozef T., 4,681,001, Cl. 83-37.000.
KMB Kunststoffmetallbearbeitung GmbH: *See—*
Bernauer, Joachim, 4,668,181, Cl. 432-8.000.
Kmiec, Chester J.; and Novits, Michael F., to Pennwalt Corporation. Gas-releasing composition for tailoring gas evolution of system. 4,692,269, 9-8-87, Cl. 252-350.000.
KMK Karl Magerle Lizenz: *See—*
Magerle, Karl, 4,664,284, Cl. 220-67.000.
KMS Fusion, Inc.: *See—*
Bird, Charles R.; and Rockett, Paul D., 4,685,119, Cl. 378-130.000.
Henderson, Timothy M., 4,661,407, Cl. 428-403.000.
Musinski, Donald L., 4,660,625, Cl. 165-47.000.
Tarvin, Jeffrey A., 4,641,524, Cl. 73-335.000.
Thomas, Carlton E., 4,657,721, Cl. 376-104.000.
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Stenberg, Erik G., 4,659,432, Cl. 162-318.000.
Thorbjornsson, Sven-Ingvar, 4,662,032, Cl. 19-300.000.
KMW Corporation: *See—*
Means, John A., 4,674,196, Cl. 34-41.000.
Knaack Manufacturing Company: *See—*
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Sedlmair, Gerhard; and Knabel, Walter, 4,660,849, Cl. 280-625.000.
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Stepanek, Premek; Wagner, Ludwig; and Knabel, Walter, 4,693,489, Cl. 280-634.000.
Knabenbauer, Wolfgang: *See—*
Glotzl, Karl; Knabenbauer, Wolfgang; Sprengel, Dietrich; and Tepel, Rudolf, 4,643,959, Cl. 429-222.000.
Knabenhaus, Fritz: *See—*
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Knable, Joseph J.; Ferdelman, Donald C.; and Bojanowski, Gerald M., to General Motors Corporation. Vehicle suspension strut and upper mount assembly therefor. 4,711,463, 12-8-87, Cl. 280-668.000.

Knackstedt, Jack S.: *See—*

Carternock, Frederick A.; and Knackstedt, Jack S., 4,679,337, Cl. 37-118.00R.

Knakowski, Rolf; and Fahlbusch, Dieter, to Blaupunkt-Werke GmbH. Car radio theft alarm system. 4,679,026, 7-7-87, Cl. 340-63.000.

Knap, Florian J. Dental articulator and method. 4,681,539, 7-21-87, Cl. 433-73.000.

Knapczyk, Jerome W., to Monsanto Company. Surface coating process. 4,670,308, 6-2-87, Cl. 427-350.000.

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Bessinger, Walter L., 4,691,887, Cl. 248-250.000.

Clement, Gene R., 4,711,588, Cl. 384-18.000.

Gronlund, Robert L.; and Stewart, John, 4,681,289, Cl. 248-224.400.

Hoffman, Keith A., 4,662,761, Cl. 384-18.000.

Sorenson, Robert E.; and Scriba, John M., Jr., 4,694,966, Cl. 211-88.000.

Knapek, Erwin: *See—*

Schmid, Ralf; Otto, Johann; Bernklau, Daniela; and Knapek, Erwin, 4,640,626, Cl. 374-57.000.

Knapen, Petrus M. J., to Kinetron B. V. Electric power supply system for portable miniature size power consuming devices. 4,644,246, 2-17-87, Cl. 320-21.000.

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Fuchs, Daniel G.; and Rudd, Larry R., 4,634,168, Cl. 296-35.100.

Knapp, Alan G.; and Ellis, Harold W., to U.S. Philips Corporation. Color display apparatus including a CRT with internal switching valve. 4,660,076, 4-21-87, Cl. 358-73.000.

Knapp, Alan G.; and Lamport, Daphne L., to U.S. Philips Corporation. Cathode ray tube display system. 4,698,555, 10-6-87, Cl. 315-366.000.

Knapp, Alan G.; Overall, Colin D.; and Slater, Richard A. M., to U.S. Philips Corporation. Method of making a color selection deflection structure, and a color picture display tube including a color selection deflection structure made by the method. 4,713,575, 12-15-87, Cl. 313-400.000.

Knapp, Alfons, to Masco Corporation. Mixing valve. 4,672,999, 6-16-87, Cl. 137-625.400.

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Knapp, Alfons; Roland, Robert D.; and Hutto, Joe D., to Masco Corporation. Faucet valve with anti-siphon back flow preventer. 4,696,322, 9-29-87, Cl. 137-218.000.

Knapp, Anthony W.; and Werth, Dee A., to Allied Corporation. Antidecoupling resisting and EMI shielding means for an electrical connector assembly. 4,639,064, 1-27-87, Cl. 339-89.00M.

Knapp, Daniel R.: *See—*

Eller, Thomas D.; and Knapp, Daniel R., 4,652,681, Cl. 564-349.000.

Eller, Thomas D.; Halushka, Perry V.; Knapp, Daniel R.; and Mais, Dale, 4,695,647, Cl. 560-53.000.

Knapp, David J.; Waltz, Marion D.; and Clarke, David W., to Aluminum Company of America. Liquid level control. 4,660,586, 4-28-87, Cl. 137-2.000.

Knapp, David J.; and Waltz, Marion D., to Aluminum Company of America. Closed loop delivery gauge control in roll casting. 4,678,023, 7-7-87, Cl. 164-452.000.

Knapp, Edward J., Jr., to Gould Inc. Thermoplastic insulating barrier for a fillerless electric fuse. 4,684,915, 8-4-87, Cl. 337-276.000.

Knapp, Furn F., Jr.; Butler, Thomas A.; and Brihaye, Claude, to United States of America, Energy. Osmium-191/iridium-191m radionuclide. 4,683,123, 7-28-87, Cl. 423-2.000.

Knapp, Gary H.: *See—*

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Knapp, George P.; Higgins, Bobby W.; and Roller, Durward W., to Chrysler Motors Corporation. Vehicle assembly method. 4,709,337, 11-24-87, Cl. 364-468.000.

Knapp, Heinrich; Krauss, Rudolf; Sauer, Rudolf; and Sumal, Jahmid-Singh, to Robert Bosch GmbH. Electromagnetically actuatable fuel injection valve. 4,653,720, 3-31-87, Cl. 251-65.000.

Knapp, Heinrich, to Robert Bosch GmbH. Electromagnetically actuatable valve. 4,662,567, 5-5-87, Cl. 239-585.000.

Knapp, Heinrich, to Robert Bosch GmbH. Throttle valve pipe. 4,671,245, 6-9-87, Cl. 123-545.000.

Knapp, Heinrich: *See—*

Bertsch, Richard; Gunther, Dieter; Knapp, Heinrich; and Plapp, Gunther, 4,660,524, Cl. 123-468.000.

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Knapp, Herfried. Heat exchanger having adjustable baffles. 4,651,820, 3-24-87, Cl. 165-159.000.

Knapp, John F.; and Gruber, Robert J., to Xerox Corporation. Developer compositions. 4,634,649, 1-6-87, Cl. 430-109.000.

Knapp, John F.; Gruber, Robert J.; Floyd, Lawrence, Jr.; Bolte, Steven B.; and Swales, Michael G., to Xerox Corporation. Process for ultra high quality images with magnetic developer composition. 4,695,524, 9-22-87, Cl. 430-32.000.

Knapp, Johnn P., to Lear Siegler, Inc. Waste receptacle dumping apparatus. 4,673,327, 6-16-87, Cl. 414-408.000.

Knapp, Joseph A.: *See—*

Rosenblatt, David H.; Rosenblatt, Aaron A.; and Knapp, Joseph A., 4,681,739, Cl. 422-37.000.

Knapp, Julius Z., to Schering Corporation. Stopper for sterile fluid containers. 4,635,807, 1-12-87, Cl. 215-247.000.

Knapp, Julius Z., to Schering Corporation. Process for manufacturing colored contact lenses. 4,704,017, 11-3-87, Cl. 351-177.000.

Knapp, Julius Z.: *See—*

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Knapp, Karl L.: *See—*

Cappel, Bert; Knapp, Karl L.; and Jung, Adolf, 4,690,054, Cl. 101-409.000.

Knapp, Kenneth M. Method and apparatus for positioning optical fibers in a buried conduit. 4,648,744, 3-10-87, Cl. 405-154.000.

Knapp, Lionel; and Horrocks, Geral I. E. J., to Standard Telephones and Cables Public Limited Company. Bonding metal to ceramic. 4,645,117, 2-24-87, Cl. 228-124.000.

Knapp, Michael E., to American Woodwork Specialty Co., Inc. Decorative window assembly. 4,693,043, 9-15-87, Cl. 52-211.000.

Knapp, Paul A. Valve apparatus for crankcase oil drainage. 4,709,722, 12-1-87, Cl. 137-539.000.

Knapp, Richard W. Rake for baseball and softball fields. 4,704,852, 11-10-87, Cl. 56-400.140.

Knapp, Ronald H.; and Tillotson, Richard. Collapsible support apparatus. 4,671,566, 6-9-87, Cl. 297-16.000.

Knapp, Suzanne C.: *See—*

Agarwal, Arun K.; Knapp, Suzanne C.; and Lakness, David R., 4,713,754, Cl. 364-200.000.

Knapp, Wolfgang; and Hrovat, Stojan, to Meseltron S.A. Method and apparatus for determining precision of numerically controlled machine tool devices. 4,662,074, 5-5-87, Cl. 33-169.00C.

Knappe, Kurt, to Linde Aktiengesellschaft. Multiply extensible lift frames. 4,703,834, 11-3-87, Cl. 187-9.00E.

Knappe, Wolfram: *See—*

Adam, Peter; and Knappe, Wolfram, 4,643,040, Cl. 74-425.000.

Knapton, Paul A. Reusable multi-compartment container with charging and discharging means. 4,705,192, 11-10-87, Cl. 222-144.500.

Knasel, Harold E.; and Grigsby, David A., to Process Equipment Company. Safety coupling device for robotic tooling. 4,639,184, 1-27-87, Cl. 414-730.000.

Knauer, Adolf: *See—*

Pieper, Helmut; Knauer, Adolf; and Sorg, Helmut, 4,687,504, Cl. 65-326.000.

Knauer, Joachim F.; and Freimuth, Martin, to Knauer, Joachim F. Nozzle cartridge for injection molding. 4,711,625, 12-8-87, Cl. 425-549.000.

Knauer, Wolfgang, to Hughes Aircraft Company. Method and apparatus for spot shaping and blanking a focused beam. 4,634,871, 1-6-87, Cl. 250-398.000.

Knauf, Gary H.: *See—*

Meult, Michael G.; and Knauf, Gary H., 4,675,016, Cl. 604-385.00A.

Knauf, Suzanne, to University of Rochester, The. Monoclonal antibody directed to an antigen derived from human ovarian tumors and a radioimmunoassay using the antibody. 4,713,351, 12-15-87, Cl. 436-542.000.

Knauff, Michael W.: *See—*

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Knaur, James A.: *See—*

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Knaus, Raymond D. Gasoline pump lever holder. 4,690,182, 9-1-87, Cl. 141-392.000.

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Knauss, Hermann, to E.G.O. Elektro-Gerate Blanc u. Fischer. Electrically heated deep fat fryer. 4,691,096, 9-1-87, Cl. 219-441.000.

Knauss, William F., Jr.; Pal, Uday B.; and Patil, Balaji V., to Allegheny Ludlum Corporation. Method of making steel. 4,695,318, 9-22-87, Cl. 75-51.100.

Knebel, Joachim: *See—*

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Knebel, Peter, to Knebel & Rottger GmbH & Co. Mixing valve for plumbing. 4,700,885, 10-20-87, Cl. 236-12.160.

Knebel & Rottger GmbH & Co.: *See—*

Knebel, Peter, 4,700,885, Cl. 236-12.160.

Knebel, Werner, 4,667,987, Cl. 285-137.100.

Knebel, Werner; and Sieberhagen, Gunter, 4,674,678, Cl. 236-12.120.

Knebel, Werner; and Sieberhagen, Gunter, 4,694,512, Cl. 4-192.000.

Sturm, Hans-Josef, 4,693,415, Cl. 236-12.120.

Knebel, Werner, to Knebel & Rottger GmbH & Co. Device for connecting pipes with fittings. 4,667,987, 5-26-87, Cl. 285-137.100.

Knebel, Werner; and Sieberhagen, Gunter, to Knebel & Rottger GmbH & Co. Mixing fixture for plumbing. 4,674,678, 6-23-87, Cl. 236-12.120.

Knebel, Werner; and Sieberhagen, Gunter, to Knebel & Rottger GmbH & Co. Plumbing mixing circuit control apparatus for a combination set. 4,694,512, 9-22-87, Cl. 4-192.000.

Knecht, Alfred, to SIG Schweizerische Industrie-Gesellschaft. Packaging machine including a folding, sealing and conveying apparatus. 4,648,236, 3-10-87, Cl. 53-234.000.

Knecht, Heinz; Preukschat, Alfred; and Beck, Hubert, to Boge GmbH. Hydraulic adjustable shock absorber. 4,650,042, 3-17-87, Cl. 188-299.000.

Knecht, Hillery G. Headrest assembly and method for making same. 4,693,516, 9-15-87, Cl. 297-391.000.

Knecht, Klaus; and Kraus, Kurt, to Kraftwerk Union Aktiengesellschaft. Method and device for repairing fuel assemblies of boiling-water nuclear reactors. 4,697,322, 10-6-87, Cl. 29-402.030.

Knecht, William R.: *See—*

Criscimagna, Tony N.; Hoffman, Harry S., Jr.; and Knecht, William R., 4,683,470, Cl. 340-771.000.

Kneeland, Robert D.; Hatch, Bruce O.; and Spaulding, Richard A., to Thermal Dynamics Corporation. Plasma-arc torch interlock with pressure sensing. 4,663,512, 5-5-87, Cl. 219-121.0PU.

Kneeland, Robert D.; Hatch, Bruce O.; and Spaulding, Richard A., to Thermal Dynamics Corporation. Plasma-arc torch interlock with flow sensing. 4,663,515, 5-5-87, Cl. 219-121.0PT.

Kneeland, Thomas S.: *See—*

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Kneib, Kristine N., to ITT Corporation. Multiprocessor system employing dynamically programmable processing elements controlled by a master processor. 4,641,238, 2-3-87, Cl. 364-200.000.

Kneib, Rudi: *See—*

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Kneifel, Jerome J., to Dale Electronics Inc. High power density, low corona resistor. 4,716,396, 12-29-87, Cl. 338-226.000.

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Pierce, Claudia C.; Robinson, Robert S.; and Kneller, James F., 4,711,726, Cl. 210-701.000.

Knepper, Hans-Reinhard. Method of automatically steering self-propelled floor-cleaning machines and floor-cleaning machine for practicing the method. 4,700,427, 10-20-87, Cl. 15-319.000.

Knepper, Larimer J., to New Holland Inc. Movable feeder floor for combines. 4,707,972, 11-24-87, Cl. 56-10.200.

Knepper, Lawrence E.: *See—*

Buscaglia, Carl U.; and Knepper, Lawrence E., 4,636,990, Cl. 365-230.000.

Knepper, Ronald W.: *See—*

Kimmel, Richard D.; Knepper, Ronald W.; and Levi, Richard, 4,651,302, Cl. 365-104.000.

Knepple, Nick L.: *See—*

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Kness, Lester E., to Kness Manufacturing Co., Inc. Animal trap. 4,711,049, 12-8-87, Cl. 43-81.000.

Kness Manufacturing Co., Inc.: *See—*

Kness, Lester E., 4,711,049, Cl. 43-81.000.

Kness, Werner; and Knees, Karl, to U.S. Philips Corporation. Shaver head for a dry shaver. 4,707,916, 11-24-87, Cl. 30-43.920.

Kneuer, Joseph G.: *See—*

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Knickerbocker, Arthur C.: *See—*

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Knickerbocker, Robert H., to Siemon Company, The. Conductor insertion tool. 4,656,725, 4-14-87, Cl. 29-566.400.

Knickmeyer, Wilhelm: *See—*

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Knief, Gerald L.: *See—*

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Peterson, Jerry D.; and Knief, Gerald L., 4,646,687, Cl. 119-73.000.

Kniege, Wilfried: *See—*

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Waniczek, Helmut; and Kniege, Wilfried, 4,650,826, Cl. 524-730.000.

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Knieriemen, Jeffrey L., to Camco, Incorporated. Well packer with releasable head and method of releasing. 4,688,641, 8-25-87, Cl. 166-387.000.

Knierim, David L.; and Rosener, Harvey J., to Tektronix, Inc. Graphics display rapid pattern fill using undisplayed frame buffer memory. 4,646,078, 2-24-87, Cl. 340-750.000.

Knies, Rudy D. Automatic latch between trailer and boat. 4,641,851, 2-10-87, Cl. 280-414.100.

Kniese, Arnd: *See—*

Aab, Hans W.; and Kniese, Arnd, 4,674,367, Cl. 81-57.370.

Kniese, Heiner: *See—*

Fink, Herbert; Hubner, Klaus; and Kniese, Heiner, 4,689,264, Cl. 428-290.000.

Kniess, Donald L. Plumbing fitting for a multiple-line connection. 4,709,947, 12-1-87, Cl. 285-150.000.

Knifton, John F., to Texaco Inc. Process for cosynthesis of ethylene glycol and dimethyl carbonate. 4,661,609, 4-28-87, Cl. 558-277.000.

Knifton, John F.; and Grice, Neal J., to Texaco Inc. Catalytic process for the preparation of linear polyethylenepolyamines with tungstophosphoric acid-or molybdophosphoric acid-on-titania catalysts. 4,683,335, 7-28-87, Cl. 564-480.000.

Knifton, John F.: *See—*

Duranleau, Roger G.; Nieh, Edward C. Y.; and Knifton, John F., 4,691,041, Cl. 558-277.000.

Dureanleau, Roger G.; and Knifton, John F., 4,678,857, Cl. 568-454.000.

Lin, Jiang-Jen; and Knifton, John F., 4,647,691, Cl. 560-265.000.

McEntire, Edward E.; and Knifton, John F., 4,657,984, Cl. 525-340.000.

McEntire, Edward E.; and Knifton, John F., 4,705,898, Cl. 564-467.000.

Knight, A. A.: *See—*

Hamill, Steve; and Knight, A. A., 4,666,169, Cl. 280-11.230.

Knight, Alan C.; and Malhotra, Satish C., to Du Pont de Nemours, E. I., and Company. Preparation of tetrafluoroethylene fine powder. 4,639,497, 1-27-87, Cl. 526-93.000.

Knight, Allan C.; and Moroney, Ronald, to Intra Med Industries Limited. Orthopedic apparatus. 4,655,200, 4-7-87, Cl. 128-71.000.

Knight, Arthur A.: *See—*

Hamill, Steve; and Knight, Arthur A., 4,666,168, Cl. 280-11.200.

Knight, Brian V., to Orfus Limited of Grand Bahama Island. Dome building structure. 4,665,664, 5-19-87, Cl. 52-81.000.

Knight, Brian V.: *See—*

Eriksson, Lars; and Knight, Brian V., 4,686,801, Cl. 52-81.000.

Knight, Clifton T.: *See—*

Bethea, James R.; and Knight, Clifton T., 4,708,615, Cl. 425-131.100.

Knight, David J., to Jack Knight (Developments) Limited. Differentials. 4,667,535, 5-26-87, Cl. 74-715.000.

Knight, David J., to Allied Corporation. Tractor air pressure braking system. 4,673,222, 6-16-87, Cl. 303-9.000.

Knight, David J.; Scopes, David I. C.; Storer, Richard; and Holman, Stuart, to Glaxo Group Limited. Imidazopyridayine derivatives having antiviral activity. 4,690,917, 9-1-87, Cl. 514-23.000.

Knight, David J.: *See—*

Koening, James P.; Knight, David J.; Szudy, James E.; Bartholomew, Roy E.; and Wurst, William R., 4,714,483, Cl. 55-163.000.

Knight, David W.: *See—*

Allweier, Werner K.; and Knight, David W., 4,655,071, Cl. 72-346.000.

Knight, Eugene U., III: *See—*

Stocker, Elizabeth M.; and Knight, Eugene U., III, 4,713,008, Cl. 434-167.000.

Knight, George L. Measuring dispenser. 4,637,529, 1-20-87, Cl. 222-452.000.

Knight, George W.: *See—*

Dohrer, Gregory L.; and Knight, George W., 4,680,328, Cl. 524-137.000.

Knight, Jack V.; and Wilson, Samuel Z., Jr., to Baylor College of Medicine. Small particle aerosol generator for treatment of respiratory disease including the lungs. 4,649,911, 3-17-87, Cl. 128-200.210.

Knight, John K., to R.F.D. Consultants Pty. Ltd. Utility pole support. 4,697,396, 10-6-87, Cl. 52-170.000.

Knight, John K., to R.F.D. Consultants Pty. Ltd. Basketball game and court. 4,715,598, 12-29-87, Cl. 272-3.000.

Knight, Joseph L. Pressure slip expansion joint. 4,709,524, 12-1-87, Cl. 52-536.000.

Knight, Orien M., to Gearhart Industries, Inc. Downhole logging and servicing system with manipulatable logging and servicing tools. 4,697,638, 10-6-87, Cl. 166-65.100.

Knight, Robert G.; Klat, Samir R.; and Unwin, Kenneth, to Nytol Enterprises Limited. Drilling apparatus. 4,711,309, 12-8-87, Cl. 175-93.000.

Knight, Rodney A.: *See—*

Ostreicher, Eugene A.; Knight, Rodney A.; Fiore, Joseph V.; Emond, George T.; and Hou, Kenneth C., 4,673,504, Cl. 210-500.220.

Ostreicher, Eugene A.; Knight, Rodney A.; Fiore, Joseph V.; Emond, George T.; and Hou, Kenneth C., 4,708,803, Cl. 210-650.000.

Ostreicher, Eugene A.; Knight, Rodney A.; Fiore, Joseph V.; Emond, George T.; and Hou, Kenneth C., 4,711,793, Cl. 427-244.000.

Knight, Ronald C.: *See—*

Christiansen, David W.; Karnesky, Richard A.; Precechtel, Donald R.; Smith, Bob G.; and Knight, Ronald C., 4,654,194, Cl. 376-443.000.

Knight, Silsby H., to Hayes-Ivy Manufacturing Inc. Retractable prerinse unit with automatic shutoff. 4,709,715, 12-1-87, Cl. 134-172.000.

Knight, Thomas F., Jr.: *See—*

Hillis, W. Daniel; Knight, Thomas F., Jr.; Bawden, Alan; Kahle, Brewster L.; Chapman, David; Christman, David P.; Lasser, Cliff A.; and Feynman, Carl R., 4,709,327, Cl. 364-200.000.

Knight, Val R. Pocketbook light. 4,654,763, 3-31-87, Cl. 362-156.000.

Knight, William A. Muzzle-loading rifle. 4,700,499, 10-20-87, Cl. 42-51.000.

Knightly, William H. Antistaling/conditioning agent in producing bakery products. 4,684,526, 8-4-87, Cl. 426-19.000.

Knighton, Kelly; Davis, J. Stanley; and Radford, Steven R., to Norton Christensen, Inc. Hydraulic inner barrel in a drill string coring tool. 4,664,205, 5-12-87, Cl. 175-58.000.

Knights, John C.: *See—*

Barker, Robert A.; Tsai, Chuang C.; and Knights, John C., 4,698,104, Cl. 437-141.000.

Jansen, Frank; Mort, Joseph; Morgan, Michael A.; Grammatica, Steven J.; and Knights, John C., 4,634,647, Cl. 430-84.000.

Knipp, Jerry L.: *See—*

Sanders, Robert E.; Knipp, Jerry L.; and Flynn, Charles J., 4,693,541, Cl. 439-541.000.

Knipp, Randall S.; and Loyd, Lewis, to Hallmark Cards, Inc. Method and apparatus for producing deckled edge paper. 4,710,158, 12-1-87, Cl. 493-328.000.

Knirsch, Franco; and Coli, Giuseppe, to Ing. C. Olivetti & C., S.p.A. Color image reproducing apparatus with sheet feeding device for recirculating a sheet on which dots of different colors are sequentially recorded. 4,651,198, 3-17-87, Cl. 358-75.000.

Knirsch, Franco; and Gianolini, Giovanni, to Ing. C. Olivetti & C., S.p.A. Heat sensitive inked element for high speed thermal printers. 4,687,701, 8-18-87, Cl. 428-216.000.

Kniskern, Peter J.: *See—*
  Marburg, Stephen; Tolman, Richard L.; and Kniskern, Peter J., 4,695,624, Cl. 530-395.000.

Knispel, Barry; and Wingert, Rudolf, to Arrow Fastener Company, Inc. Combination staple and riveting gun. 4,643,345, 2-17-87, Cl. 227-156.000.

Knispel, Barry; and Wingert, Rudolf, to Arrow Fastener Company, Inc. Riveting attachment. 4,706,869, 11-17-87, Cl. 227-156.000.

Knispel, Gottfried: *See—*
  Krug, Wolfgang; Knispel, Gottfried; and Wrobel, Dieter, 4,704,408, Cl. 521-82.000.

Knittel, Ronald, to AGL Bau-Laser Gerate Vertriebs GmbH. Construction laser, in particular canal construction laser. 4,688,230, 8-18-87, Cl. 372-109.000.

Knitter, Wayne L.: *See—*
  Sturza, Mark A.; Knitter, Wayne L.; and Wu, Yi-Zen, 4,642,647, Cl. 342-415.000.

Knobel, Thomas M.: *See—*
  Gurgiolo, Arthur E.; Winquist, Marvin E.; Knobel, Thomas M.; and Teeters, Dale C., 4,643,953, Cl. 428-520.000.
  Gurgiolo, Arthur E.; Winquist, Marvin E.; Knobel, Thomas M.; and Teeters, Dale C., 4,654,273, Cl. 428-522.000.

Knoblauch, Karl: *See—*
  Grochowski, Horst; Zurawsky, Dieter; Knoblauch, Karl; Goldschmidt, Klaus; and Schwarte, Jurgen, 4,695,444, Cl. 423-569.000.

Knoblauch, Richard: *See—*
  Szodfridt, Imre; and Knoblauch, Richard, 4,714,147, Cl. 192-87.150.

Knoble, David W.; and Sanders, Joseph W., to General Electric Company. Method of transferring digital information and street lighting control system. 4,691,341, 9-1-87, Cl. 379-97.000.

Knobloch, Osbert: *See—*
  Henne, Heinrich; Patzelt, Norbert; Schneider, Lutz T.; Knobloch, Osbert; and Muller, Manfred, 4,709,864, Cl. 241-167.000.

Knoblock, Glenn A.; and Scolten, Brian L., to Steelcase Inc. Slip connector for weight actuated height adjustors. 4,709,894, 12-1-87, Cl. 248-406.200.

Knoch, Axel: *See—*
  Stanislaus, Friedrich; Hofer, Josef M.; and Knoch, Axel, 4,704,406, Cl. 514-570.000.

Knoch, Heinrich; Bechler, Eckhart; and Lipp, Alfred, to Elektroschmelzwerk Kempten GmbH. Polycrystalline sintered bodies based on lanthanum hexaboride, and a process for their manufacture. 4,661,740, 4-28-87, Cl. 313-346.00R.

Knochel, Arndt; Doscher, Burghard; and Podesta, Wolfgang, to Kernforschungszentrum Karlsruhe GmbH. Process for enriching and separating oxides of heavy hydrogen isotopes from acid, aqueous solutions or other aqueous streams. 4,705,635, 11-10-87, Cl. 210-633.000.

Knochel, Reinhard: *See—*
  Beckmann, Friedrich-Karl; Hoppe, Wolfgang; and Knochel, Reinhard, 4,708,471, Cl. 336-73.100.

Knockaert, Georges: *See—*
  Delehouzee, Leon; and Knockaert, Georges, 4,651,948, Cl. 242-129.000.

Knodel, Erich, to Walter Graf u. Co GmbH & Co. Piston for precision dosing instrument. 4,633,765, 1-6-87, Cl. 92-248.000.

Knodel, Gunter; and Helms, Georg, to GETRAG Getriebe-und Zahnradfabrik GmbH. Gearbox-transmission with synchronized reverse-gear. 4,640,141, 2-3-87, Cl. 74-357.000.

Knodler, Helmut: *See—*
  Lang, Armin; and Knodler, Helmut, 4,699,231, Cl. 180-148.000.

Knodo, Masamichi: *See—*
  Kano, Toshio; Knodo, Masamichi; Ikeda, Tatsufumi; and Morikawa, Chiharu, 4,703,059, Cl. 514-493.000.

Knoedler, Roy E.; Gerken, Donald L.; and Morton, Kenneth P., to Cosco, Inc. Juvenile car seat. 4,662,683, 5-5-87, Cl. 297-488.000.

Knoell, Helmut: *See—*
  Pennewiss, Horst; Schweder, Roland; and Knoell, Helmut, 4,665,121, Cl. 524-457.000.

Knoepke, John R.; Pielet, Howard M.; Frank, Larry A.; and Rellis, Daniel, Jr., to Inland Steel Company. Method for controlling uniformity of alloy content in continuously cast steel. 4,667,715, 5-26-87, Cl. 164-453.000.

Knoerzer, Karl-Heinz, to Kollektor GmbH. Rotating collector assembly for electrical machines. 4,647,807, 3-3-87, Cl. 310-236.000.

Knoerzer, Karl-Heinz. Rotating collector assembly for electrical machines. 4,692,648, 9-8-87, Cl. 310-233.000.

Knofel, Hartmut; Penninger, Stefan; Brockelt, Michael; Hammen, Gunter; and Stutz, Herbert, to Bayer Aktiengesellschaft. Cycloaliphatic triisocyanates. 4,675,437, 6-23-87, Cl. 560-330.000.

Knofel, Hartmut: *See—*
  Engbert, Theodor; Hammen, Gunter; Knofel, Hartmut; and Konig, Klaus, 4,692,550, Cl. 560-345.000.
  Engbert, Theodor; Knofel, Hartmut; and Wegener, Gerhard, 4,698,424, Cl. 544-222.000.

Knoff, Bernd: *See—*
  Hoernig, Rudolf; Herges, Peter; Knoff, Bernd; Richter, Karl-Heinz; Buechle, Karl-Heinz; and Wallentowitz, Henning, 4,681,185, Cl. 180-247.000.

Knogo Corporation: *See—*
  Cooper, Michael N.; and Pokalsky, Peter A., 4,665,387, Cl. 340-572.000.
  Minasy, Arthur J.; and Pokalsky, Peter A., 4,684,930, Cl. 340-551.000.
  Pokalsky, Peter A., 4,642,613, Cl. 340-572.000.

Knoke, Jurgen: *See—*
  Jost, Manfred; Knoke, Jurgen; Yoshida, Zenji; Ohta, Noburo; and Nakanishi, Terumo, 4,696,850, Cl. 428-197.000.

Knol, Berend: *See—*
  Van den Berk, Peter J. T.; Knol, Berend; and Dubois, Franciscus J. M., 4,663,145, Cl. 423-659.000.

Knol, Jan D.: *See—*
  Bes, Richard F. T.; and Knol, Jan D., 4,681,632, Cl. 106-19.000.

Knoll, Dieter: *See—*
  Strohmeier, Werner; Knoll, Dieter; and Handler, Erich, 4,676,653, Cl. 356-446.000.

Knoll, Ernst: *See—*
  Blauth, Walter; and Knoll, Ernst, 4,669,451, Cl. 128-25.00R.

Knoll, Frank: *See—*
  Spinosa, Dominic J.; and Knoll, Frank, 4,648,160, Cl. 24-515.000.
  Spinosa, Dominic J.; and Knoll, Frank, 4,709,818, Cl. 206-524.800.
  Spinosa, Dominic J.; and Knoll, Frank, 4,715,561, Cl. 244-129.100.

Knoll, Frederick L., to Boeing Company, The. Apparatus for consolidating composite materials. 4,715,923, 12-29-87, Cl. 156-380.900.

Knoll, Fritz: *See—*
  Steiner, Heinz; and Knoll, Fritz, 4,650,167, Cl. 267-137.000.

Knoll, Gunter: *See—*
  Himmler, Gunther; and Knoll, Gunter, 4,691,567, Cl. 73-483.000.
  Schulz, Wolfgang; Himmler, Gunther; Knoll, Gunter; and Wenz, Friedrich, 4,676,648, Cl. 356-385.000.

Knoll, Hans, to Tepro- Prazionstechnik GmbH. Food vending machine. 4,671,425, 6-9-87, Cl. 221-8.000.

Knoll, Hans, to Tepro Prazisionstechnik GmbH. Food vending machine. 4,677,278, 6-30-87, Cl. 219-214.000.

Knoll, Hans-Jurgen: *See—*
  Propper, Wilhelm; and Knoll, Hans-Jurgen, 4,703,607, Cl. 53-307.000.

Knoll, Heinz: *See—*
  Andres, Rudolf; Knoll, Heinz; Petri, Volker; and Pfistner, Harald, 4,700,974, Cl. 280-806.000.
  Andres, Rudolf; Knoll, Heinz; Petri, Volker; and Pfistner, Harald, 4,702,492, Cl. 280-801.000.

Knoll International, Inc.: *See—*
  Eldon, James B.; and Wnek, Kenneth, 4,645,155, Cl. 248-278.000.

Knoll, Jozsef: *See—*
  Meszaros, Zoltan; Knoll, Jozsef; Hermecz, Istvan; Szentmiklosi, Peter; Horvath, Agnes; Vasvari nee Debreczy, Lelle; Kovacs, Gabor; Gyires, Klara; and Virag, Sandor, 4,666,912, Cl. 514-258.000.

Knoll, Manfred: *See—*
  Heinz, Gerhard; McKee, Graham E.; Simon, Georg N.; Kleber, Friedrich; and Knoll, Manfred, 4,666,973, Cl. 524-504.000.

Knoll, Meinhard: *See—*
  Braunig, Dietrich; Knoll, Meinhard; Laschinski, Joachim; and Fahrner, Wolfgang, 4,663,830, Cl. 29-576.00B.

Knoll, Peter, to Robert Bosch GmbH. Colloidal-type display and indicator system, and method of its manufacture. 4,653,868, 3-31-87, Cl. 350-355.000.

Knoll, Peter, to Robert Bosch GmbH. Arrangement for illuminating passive display. 4,679,044, 7-7-87, Cl. 340-815.200.

Knollenberg, Robert G., to Particle Measuring Systems, Inc. Particle measurement utilizing orthogonally polarized components of a laser beam. 4,636,075, 1-13-87, Cl. 356-336.000.

Knon, Gunter: *See—*
  DeHubry, Frederick; and Knon, Gunter, 4,646,146, Cl. 358-108.000.

Knoop, Donald E., to Whirlpool Corporation. Pressure sensing automatic water level control. 4,697,293, 10-6-87, Cl. 8-158.000.

Knoop, Henry E., to VCF Films Inc. Div. of PMC. Process for solvent casting a film. 4,664,859, 5-12-87, Cl. 264-102.000.

Knoop, Jack P. Tab forming device in plastic tape roll holder. 4,634,415, 1-6-87, Cl. 493-353.000.

Knoop, Walter V.: *See—*
  Plovanich, Charles J.; Ossont, Guy H.; King, Keith C.; Irwin, Robert H.; and Knoop, Walter V., 4,683,814, Cl. 100-37.000.

Knop, Charles M.: *See—*
  Saad, Saad S.; and Knop, Charles M., 4,689,633, Cl. 343-786.000.

Knop, Karl H., to RCA Corporation. Secure document identification technique. 4,661,983, 4-28-87, Cl. 382-1.000.

Knop, Karl H.: *See—*
  Gale, Michael T.; Kleinknecht, Hans P.; and Knop, Karl H., 4,668,080, Cl. 355-51.000.

Knop, Klaus: *See—*
  Heinrich, Peter; Knop, Klaus; and Rube, Friedbert, 4,678,480, Cl. 48-197.00R.

Knopp, Robert C. Method and means for marking X-ray film with identifying indicia. 4,679,222, 7-7-87, Cl. 378-166.000.

Knops, Alwin: *See—*
  Comberg, Albert A.; Knops, Alwin; Oepen, Heinrich A.; and Wadow, Dieter, 4,651,047, Cl. 313-22.000.

Kaops, Hans-Joachim; Babczinski, Peter; Eue, Ludwig; Santel, Hans-Joachim; and Schmidt, Robert R., to Bayer Aktiengesellschaft. N-methyl-4-pyridones. 4,670,044, 6-2-87, Cl. 71-92.000.

Knops, Hans-Joachim: *See—*
- Heinemann, Ulrich; Knops, Hans-Joachim; Steinbeck, Karl; Brandes, Wilheim; Hanssler, Gerd; and Reinecke, Paul. 4,642,312, Cl. 514-364.000.

Knor, Bernhard: *See—*
- Rauh, Hans-Jurgen; Findeis, Gunter; Biedermann, Ernst; and Knor, Bernhard, 4,704,026, Cl. 355-38.000.

Knorowski, Victor J.; Hean, Charles R.; and Placek, Ronald J., to General Electric Company. Wheel anti-rotation means. 4,682,934, 7-28-87, Cl. 416-198.00A.

Knorr, Andreas: *See—*
- Garthoff, Bernward; Kazda, Stanislav; and Knorr, Andreas, 4,703,038, Cl. 514-19.000.
- Kabbe, Hans-Joachim; Widdig, Arno; Niewohner, Ulrich; Knorr, Andreas; Garthoff, Bernward; and Kazda, Stanislav, 4,647,579, Cl. 514-456.000.
- Kabbe, Hans-Joachim; Niewohner, Ulrich; Widdig, Arno; Knorr, Andreas; Garthoff, Bernward; and Kazda, Stanislav, 4,659,737, Cl. 514-456.000.
- Wehinger, Egbert; Knorr, Andreas; Stoepel, Kurt; and Heise, Arend, 4,675,329, Cl. 514-356.000.

Knorr-Bremse AG: *See—*
- Brearey, Nicholas J.; and Burt, Harry G. P., 4,645,271, Cl. 303-14.000.
- Hommen, Winfried; Stauble, Georg; and Wieser, Tiberius, 4,682,823, Cl. 303-22.00R.
- Nadas, Julius, 4,706,786, Cl. 188-196.0BA.
- Saumweber, Eckart; and Schmitt, Otto, 4,640,390, Cl. 188-73.370.
- Staltmeir, Josef; and Wosegien, Bernd, 4,650,040, Cl. 188-207.000.
- Wirth, Xaver, 4,638,891, Cl. 188-58.000.
- Wirth, Xaver, 4,638,892, Cl. 188-59.000.

Knorr-Bremse Fluidics GmbH: *See—*
- Herzfeld, Ronald; Wydra, Karl; and Uebel, Alexander, 4,634,053, Cl. 239-315.000.

Knorr, Fritz J., to Surface Science Laboratories, Inc. Fourier transform time of flight mass spectrometer. 4,707,602, 11-17-87, Cl. 250-282.000.

Knorr, George E., to University of Iowa Research Foundation. Injection, containment and heating device for fusion plasmas. 4,650,631, 3-17-87, Cl. 376-127.000.

Knotek, Jeanette H., executrix: *See—*
- Robbins, Donald A.; and Knotek, William R., deceased, 4,664,599, Cl. 416-198.00A.

Knotek, William R., deceased: *See—*
- Robbins, Donald A.; and Knotek, William R., deceased, 4,664,599, Cl. 416-198.00A.

Knoth, Wayne M.; and Corbin, Dennis O., to Universal Forest Products. Automatic lattice fabrication apparatus. 4,708,276, 11-24-87, Cl. 227-7.000.

Knoth, Werner-Dieter: *See—*
- Nebelung, Hermann H.; and Knoth, Werner-Dieter, 4,678,494, Cl. 65-261.000.

Knothe, Erich; Melcher, Franz-Josef; and Oldendorf, Christian, to Sartorius GmbH. Electronic balance with dual purpose 10-key keyboard. 4,645,021, 2-24-87, Cl. 177-165.000.

Knothe, Erich; Melcher, Franz-Josef; Ober, Jurgen; Berg, Christoph; Dardat, Klaus; Bierich, Eduard; and Maaz, Gunther, to Sartorius GmbH. Electric balance. 4,656,599, 4-7-87, Cl. 364-567.000.

Knothe, Erich; and Kohne, Hans-Heinrich, to Sartorius GmbH. Balance with a protective box-like structure. 4,664,207, 5-12-87, Cl. 177-181.000.

Knothe, Erich; Melcher, Franz-Josef; Maaz, Gunther; and Handwerk, Volker, to Sartorius GmbH. Drying balance with scale on top. 4,666,007, 5-19-87, Cl. 177-245.000.

Knothe, Erich; Melcher, Franz-Josef; and Oldendorf, Christian, to Sartorius GmbH. Balance with counting scale. 4,685,525, 8-11-87, Cl. 177-25.000.

Knothe, Erich: *See—*
- Oldendorf, Christian; Melcher, Franz-Josef; and Knothe, Erich, 4,650,014, Cl. 177-177.000.
- Oldendorf, Christian; Melcher, Franz-Josef; and Knothe, Erich, 4,688,898, Cl. 350-336.000.

Knothe, Herbert; and Roschmann, Klaus, to Teldec Schallplatten GmbH. Process for producing a cutting base. 4,640,745, 2-3-87, Cl. 204-5.000.

Knott, Jack E., II; and Obitz, Kenneth W., to El Paso Products Company. Printable composite stretch wrap film. 4,671,987, 6-9-87, Cl. 428-216.000.

Knott, Ronald P.: *See—*
- Freeman, Thomas R.; Wilson, John F.; and Knott, Ronald P., 4,655,995, Cl. 376-267.000.

Knott, Valentin; Huber, Hans; Langheinrich, Wolfgang; and Maier, Stephan, to Maschinenbau Knott Eggstatt Ing. Valentin Knott, Firma. Adjusting and centering contrivance for servo brakes. 4,645,040, 2-24-87, Cl. 188-79.5GT.

Knowd, Michael J., to Minnesota Mining and Manufacturing Company. Decoder for a recorder-decoder system. 4,706,282, 11-10-87, Cl. 380-3.000.

Knowd, Michael J., to Minnesota Mining and Manufacturing Company. Circuitry for characterizing speech for tamper protected recording. 4,706,293, 11-10-87, Cl. 381-31.000.

Knowles, Carl H., to Metrologic Instruments, Inc. Compact omnidirectional laser scanner. 4,713,532, 12-15-87, Cl. 235-467.000.

Knowles Chemical Corporation: *See—*
- Cheek, Thomas L.; and Schoolcraft, Joe G., 4,658,933, Cl. 187-8.670.

Knowles, James. Wood beam assembly. 4,637,194, 1-20-87, Cl. 52-690.000.

Knowles, Larry F. Removable speedbump-cover. 4,687,370, 8-18-87, Cl. 404-15.000.

Knowles, Philip: *See—*
- Collins, Raymond F.; Knowles, Philip; Saunders, Libert C., Tierney, Francis J.; and Warne, Peter J., 4,647,569, Cl. 514-340.000.

Knowles, Robert G., to Western Geophysical Company of America. Fiber optic cable connector. 4,696,539, 9-29-87, Cl. 350-96.210.

Knowles, Robert W.; Dupont, Bo; Naito, Kazuyuki; and Morishima, Yasuo, to Memorial Sloan-Kettering Institute Cancer Center. Method for differential diagnosis of T cell leukemias using monoclonal antibodies. 4,645,738, 2-24-87, Cl. 435-7.000.

Knowles, Terence J.; Ray, Francis M.; and Shewey, Charles E., to Zenith Electronics Corporation. High voltage electronic component test apparatus. 4,710,707, 12-1-87, Cl. 324-158.00F.

Knowles, Vernon L.; Wilcox, Roger V.; and Jackson, Bruce J., to Hewlett-Packard Company. Servo gain compensation in a disc drive. 4,688,118, 8-18-87, Cl. 360-75.000.

Knowles, William J.; Marchesi, Vincent T.; and Haigh, Wallace, to Molecular Diagnostics, Inc. Peptides useful in preparing hemoglobin A_{1c} immunogens. 4,647,654, 3-3-87, Cl. 530-326.000.

Knowles, William J.; and Marchesi, Vincent T., to Molecular Diagnostics, Inc. Binding of antibody reagents to denatured protein analytes. 4,658,022, 4-14-87, Cl. 530-402.000.

Knowles, William T., Jr., to Shell Western E&P Inc. Choke cooling waxy oil. 4,697,426, 10-6-87, Cl. 62-48.000.

Knowlton, David R.: *See—*
- Anderson, John, III; and Knowlton, David R., 4,651,503, Cl. 53-440.000.

Knowlton, Harold E., to Chevron Research Company. Method for purifying solids-stabilized emulsions. 4,689,155, 8-25-87, Cl. 210-708.000.

Knowlton, Robert G.: *See—*
- Botstein, David; Davis, Ronald W.; Fink, Gerald R.; Taunton-Rigby, Alison; Knowlton, Robert G.; Mao, Jen-i; Moir, Donald T.; and Goff, Christopher G., 4,661,454, Cl. 435-256.000.

Knowlton, Ted M.: *See—*
- Janka, John C.; Schora, Frank C.; and Knowlton, Ted M., 4,701,266, Cl. 210-803.000.

Knox, Harold L., to Detroit Stoker Company. Central feed rotary automatic ash discharge stoker. 4,633,849, 1-6-87, Cl. 126-182.000.

Knox, John D., to Vermont American Corporation. Drill having means for locating cutting bit in a bit holder. 4,633,959, 1-6-87, Cl. 175-410.000.

Knox, Lewis. Method of chemical deodorization of articles and solutions used in medical and biological procedures. 4,681,575, 7-21-87, Cl. 604-359.000.

Knox, Ronald A. Safety hanger for mud flaps. 4,695,070, 9-22-87, Cl. 280-154.50R.

Knox, Walter R.: *See—*
- Paulik, Frank E.; Hershman, Arnold; Knox, Walter R.; and Roth, James F., 4,690,912, Cl. 502-161.000.

Knox, William G.; and Turner, Margaret L. Blouse. 4,663,782, 5-12-87, Cl. 2-104.000.

Knud Erik Westergaard: *See—*
- Ostergaard, Tage V., 4,687,138, Cl. 239-126.000.

Knud Simonsen Industries Limited: *See—*
- Buller-Colthurst, Guy E.; and Jespersen, Knud, 4,658,718, Cl. 100-194.000.

Knudsen, Arne K., to Dow Chemical Company, The. Process for the preparation of submicron-sized titanium diboride. 4,689,129, 8-25-87, Cl. 204-157.410.

Knudsen, Christian W.: *See—*
- Stahl, Charles R.; Gibson, Michael A.; and Knudsen, Christian W., 4,694,907, Cl. 166-303.000.

Knudsen, Donald C. Digital delay generator for sonar and radar beam formers. 4,688,045, 8-18-87, Cl. 342-377.000.

Knudsen, Hans J., to Danfoss A/S. Fuel burner pump assembly. 4,708,156, 11-24-87, Cl. 137-117.000.

Knudsen, James K.; Smith, Jane E.; Budan, Victor J.; Wroblewski, David J.; and Skuratovsky, Eugene, to Babcock & Wilcox Company, The. On-line replacement sensor assembly for a vortex shedding flowmeter. 4,679,445, 7-14-87, Cl. 73-861.240.

Knudson, Donald B., Jr.: *See—*
- Keritsis, Gus D.; Knudson, Donald B., Jr.; Osmalov, Jerome S.; and Seligman, Robert B., 4,674,519, Cl. 131-355.000.

Knudson, Milburn I., Jr.; and Jones, Thomas R., to Southern Clay Products, Inc. Process for manufacturing organoclays having enhanced gelling properties. 4,664,842, 5-12-87, Cl. 252-315.200.

Knudson, Robert M.; and Ehrenfellner, Hubert, to MacMillan Bloedel Limited. Preservative treated composite wood product. 4,643,860, 2-17-87, Cl. 264-109.000.

Knuepfer, Wolfgang: *See—*
- Haas, Werner; Knuepfer, Wolfgang; and Pfeiler, Manfred, 4,682,600, Cl. 128-328.000.

Knuhtsen, John: *See—*
- Buchhave, Preben; Knuhtsen, John; and Olldag, Peder E. S., 4,701,051, Cl. 356-336.000.

Knurek, Thomas A.; Houston, Terry L.; and Hipsher, Gary L., to Cooper Tire & Rubber Company. Mount for controlling or isolating vibration. 4,687,188, 8-18-87, Cl. 267-140.100.

Knus, Jean A.: *See*—
Kunz, Rino E.; Junghans, Jurgen R.; Knus, Jean A.; Murbach, Urs; and Tuor, Marcel F., 4,713,537, Cl. 250-227.000.

Knutsen, Morris N. Apparatus and method for sawing limbs and the like. 4,667,714, 5-26-87, Cl. 144-379.000.

Knutson, Arthur E. Kitchen range safety shutoff. 4,659,909, 4-21-87, Cl. 219-452.000.

Knutson, Oliver M.: *See*—
Gaul, Craig S.; Knutson, Oliver M.; and Watson, Donald C., 4,649,674, Cl. 52-20.000.

Knuttel, Alexander; and Knuttel, Bertold, to Bruker Medizintechnik GmbH. Apparatus for producing complete three-dimensional images of a spatial object. 4,674,837, 6-23-87, Cl. 350-130.000.

Knuttel, Bertold: *See*—
Knuttel, Alexander; and Knuttel, Bertold, 4,674,837, Cl. 350-130.000.
Post, Hans; Ratzel, Dieter; Brunner, Peter; and Knuttel, Bertold, 4,694,249, Cl. 324-309.000.

Knutti, James W.; Allen, Henry V.; Petersen, Kurt E.; and Kowalski, Carl R., to Tactile Perceptions, Inc. Semiconductor transducer. 4,680,606, 7-14-87, Cl. 357-26.000.

Knuutinen, Hannu. Chassis structure of vehicle. 4,688,811, 8-25-87, Cl. 280-91.000.

Knytex, Inc.: *See*—
Vees, Frederick; and Carrington, Larry, 4,664,961, Cl. 428-102.000.

Ko, Clyde M. A.; and Dolph, Darrel A. Electronic horn with spiral deflecting walls coupled to a truncated cone structure. 4,689,609, 8-25-87, Cl. 340-38.40E.

Ko, Eric: *See*—
Zivitz, Maury; Ko, Eric; and Eslick, Mark, 4,695,164, Cl. 356-427.000.

Ko, Harvey W.; and Hart, Lynn W., to Johns Hopkins University, The. Non-invasive electromagnetic technique for monitoring bone healing and bone fracture localization. 4,688,580, 8-25-87, Cl. 128-734.000.

Ko, Harvey W., to Johns Hopkins University, The. Non-invasive electromagnetic technique for monitoring physiological changes in the brain. 4,690,149, 9-1-87, Cl. 128-653.000.

Ko, Hsi-Chia. Fixing cover of a walled faucet. 4,672,994, 6-16-87, Cl. 137-359.000.

Ko, Jinrea: *See*—
Brady, William T.; Norton, Scott J.; and Ko, Jinrea, 4,691,052, Cl. 562-506.000.

Ko, Wen C.: *See*—
Thomas, Mammen; and Ko, Wen C., 4,635,230, Cl. 365-175.000.
Thomas, Mammen; and Ko, Wen C., 4,654,824, Cl. 365-175.000.
Thomas, Mammen; and Ko, Wen C., 4,669,180, Cl. 29-577.00C.

Koa Corporation: *See*—
Kitabayashi, Motoi; Hayashi, Takuo; Ozawa, Norihiko; Hirasawa, Yukihiro; and Miyazawa, Naotoshi, 4,647,813, Cl. 313-509.000.

Koa Oil Company, Limited: *See*—
Noguchi, Kosaku; Tanaka, Honami; Kumura, Yukimasa; Yamazaki, Heima; Kitajima, Eiji; and Sunada, Tomonori, 4,640,822, Cl. 422-111.000.

Koakutsu, Yasumasa: *See*—
Noro, Takanobu; Koakutsu, Yasumasa; Takeuchi, Tamio; Yano, Masao; Onoda, Seiichi; Arima, Hideo; Yokono, Hitoshi; and Tanei, Hirayoshi, 4,715,673, Cl. 350-96.200.

Koatsu Gas Kogyo Co., Ltd.: *See*—
Koga, Mitsuyuki; Hirai, Kenichiro; Sugimae, Toshio; and Fukushige, Setsuo, 4,713,405, Cl. 523-212.000.

Kob-I-Noor Rapidograph, Inc.: *See*—
Goh, Djing-San, 4,662,769, Cl. 401-259.000.

Koba, Hiroshi: *See*—
Ginnaga, Akihiro; Koba, Hiroshi; Sakuma, Shin; Kitagawa, Hisashi; Yamada, Akira; and Suzuki, Yoji, 4,687,738, Cl. 435-68.000.

Koba, Masayoshi: *See*—
Kakimoto, Seizo; Kudo, Jun; and Koba, Masayoshi, 4,655,850, Cl. 148-1.500.

Koba, Yoshinori, to Meinan Machinery Works, Inc. Method and apparatus for removing moisture in veneer. 4,653,197, 3-31-87, Cl. 34-23.000.

Koba, Yoshinori, to Meinan Machinery Works, Inc. Apparatus for dehydrating crude veneer. 4,691,629, 9-8-87, Cl. 100-121.000.

Kobal, Gerd. Process for measuring sensory qualities and apparatus therefor. 4,681,121, 7-21-87, Cl. 128-731.000.

Kobale, Manfred; and Mammach, Peter, to Siemens Aktiengesellschaft. Device for maintaining constant pressure in gas discharge vessels, particularly flat plasma picture screens with electron post-acceleration. 4,663,564, 5-5-87, Cl. 313-551.000.

Kobanawa, Mitsuo: *See*—
Hashimoto, Kazuo; and Kobanawa, Mitsuo, 4,658,417, Cl. 379-97.000.

Kobari, Harukuni, to Victor Company of Japan, Ltd. Circuit arrangement for a data acquisition circuit of a PCM processor and a method for improving waveform of PCM signal eye pattern. 4,637,036, 1-13-87, Cl. 375-76.000.

Kobari, Katsuo; and Ishida, Hiroshi, to Fanuc Ltd. Induction motor driving system. 4,680,525, 7-14-87, Cl. 318-798.000.

Kobari, Osamu; and Kida, Takashi, to Toho Development Engineering Co., Ltd. Preheating mechanism for source metal for melt. 4,681,535, 7-21-87, Cl. 432-48.000.

Kobari, Toshiaki: *See*—
Kamohara, Hideaki; Fujioka, Kazumasa; Kobari, Toshiaki; Takahashi, Kunihiro; and Ueda, Shinjiro, 4,664,062, Cl. 118-719.000.

Kobari, Yuji; and Miyamoto, Keiichi, to Nissan Motor Co., Ltd. Part time four wheel drive vehicle with road surface condition sensor. 4,678,056, 7-7-87, Cl. 180-247.000.

Kobashi, Mamoru: *See*—
Matsumoto, Hisashi; Motogami, Yoshikazu; Miyahara, Masahiko; Inoue, Tokuta; Hasegawa, Kohichi; Aoki, Keiji; Ikeda, Shinji; Kawai, Mitsuo; Kobashi, Mamoru; Takata, Mamoru; Nagase, Masaomi; and Hoshiba, Hiroyuki, 4,665,740, Cl. 73-116.000.

Kobashi, Toshiyuki; and Takao, Seiji, to Japan Exlan Company, Ltd.; and Toyo Boseki Kabushiki Kaisha. Polyacrylonitrile fiber with high strength and high modulus of elasticity. 4,658,004, 4-14-87, Cl. 526-341.000.

Kobashi, Toshiyuki; and Takao, Seiji, to Japan Exlan Company, Ltd.; and Toyo Boseki Kabushiki Kaisha. Method for the production of high strength polyacrylonitrile fiber. 4,659,529, 4-21-87, Cl. 264-182.000.

Kobashi, Toshiyuki; and Naka, Hideo, to Japan Exlan Company, Ltd. Chemically stable colloidal antimony oxide. 4,659,847, 4-21-87, Cl. 556-5.000.

Kobashi, Toshiyuki: *See*—
Fujimatsu, Masaaki; and Kobashi, Toshiyuki, 4,716,002, Cl. 264-182.000.

Kobata, Fumihiro: *See*—
Kawabata, Joheiji; Sugie, Toshinori; Kobata, Fumihiro; and Hirayama, Akira, 4,678,831, Cl. 524-496.000.

Kobata, Hiroshi; and Kojima, Tadashi, to Kabushiki Kaisha Toshiba. Digital signal reproducing circuit. 4,713,802, 12-15-87, Cl. 369-59.000.

Kobata, Shoichi: *See*—
Maegawa, Harumi; Takai, Sakan; Sukeda, Toshiaki; Irie, Shoji; and Kobata, Shoichi, 4,710,895, Cl. 365-2.000.

Kobata, Yoshihiro: *See*—
Ueda, Hiroyuki; and Kobata, Yoshihiro, 4,690,575, Cl. 400-166.000.

Kobayashi, Akihiro; Yamaguchi, Shunzo; Kobayashi, Kiyomi; and Takaba, Hiroaki, to Nippondenso Co., Ltd. Sheathed heater. 4,639,712, 1-27-87, Cl. 338-238.000.

Kobayashi, Akihiro: *See*—
Kumagai, Yuugo; Moribe, Isamu; Saito, Takayuki; Fujita, Toshiyuki; and Kobayashi, Akihiro, 4,686,166, Cl. 430-109.000.
Mizuno, Takashi; and Kobayashi, Akihiro, 4,674,420, Cl. 112-78.000.

Kobayashi, Akio; Harada, Susumu; Harada, Takashi; Kikuchi, Takehiro; and Honda, Masakazu, to Nippondenso Co., Ltd. Fuel control system having sensor verification dual modes. 4,663,717, 5-5-87, Cl. 364-431.050.

Kobayashi, Akio: *See*—
Kondo, Toshio; Kobayashi, Akio; Hiromasa, Shunichiro; Masuda, Akira; and Miyaki, Masahiko, 4,649,745, Cl. 73-204.000.

Kobayashi, Akira: *See*—
Kato, Nobuyuki; and Kobayashi, Akira, 4,701,295, Cl. 264-519.000.
Yoshikumi, Chikao; Fujii, Takayoshi; Furusho, Takao; Matsunaga, Kenichi; Ohara, Minoru; and Kobayashi, Akira, 4,663,438, Cl. 530-395.000.

Kobayashi, Atsuo: *See*—
Nishino, Kenichi; Kobayashi, Atsuo; Higashi, Sachio; Yamamoto, Shinichiro; and Yasuda, Kiyoshi, 4,640,950, Cl. 524-265.000.

Kobayashi, Atsushi: *See*—
Miyano, Hideyo; Kobayashi, Atsushi; Suzuki, Shigeru; and Ichida, Katsami, 4,664,076, Cl. 123-52.0MB.

Kobayashi, Bujirou: *See*—
Kodai, Syojiro; Fujii, Noriaki; Gamo, Hiroshi; and Kobayashi, Bujirou, 4,695,925, Cl. 361-395.000.

Kobayashi, Chiharu: *See*—
Miyazaki, Masayuki; Kudo, Yoshihiko; Takahashi, Seizi; Kobayashi, Chiharu; and Sawaki, Akira, 4,659,208, Cl. 355-8.000.

Kobayashi, Daisaku; Itaba, Tunesaku; and Momose, Yutaka, to Kabushiki Kaisha Riken, and Aisin Seiki Kabushiki Kaisha. Rod seal device for stirling engines. 4,691,591, 9-8-87, Cl. 74-606.00A.

Kobayashi, Daisaku; Itaba, Tunesaku; and Momose, Yutaka, to Kabushiki Kaisha Riken; and Aisin Seiki Kabushiki Kaisha. Rod seal device for stirling engines. 4,694,707, 9-22-87, Cl. 74-606.00A.

Kobayashi, Fumiaki, to Toyota Jidosha Kabushiki Kaisha. Method and system for detecting fuel injection timing in a diesel engine. 4,713,965, 12-22-87, Cl. 73-119.00A.

Kobayashi, Fumio; and Yamagishi, Jun, to Ohi Seisakusho Co., Ltd. Window regulator for door. 4,633,613, 1-6-87, Cl. 49-227.000.

Kobayashi, Fumio: *See*—
Mitani, Ikujirou; Kawanami, Norihide; and Kobayashi, Fumio, 4,678,261, Cl. 439-582.000.
Takaishi, Tatsuyuki; Kobayashi, Fumio; Usui, Keizaburo; and Kagiyama, Tsutomu, 4,691,584, Cl. 74-471.00R.

Kobayashi, Fumiyuki: *See*—
Kurihara, Yasutoshi; Soga, Tasao; Hachino, Hiroaki; Miyata, Kenji; Okamura, Masahiro; Kobayashi, Fumiyuki; and Daikoku, Takahiro, 4,649,990, Cl. 165-80.400.
Matsushita, Yasuo; Nakamura, Kousuke; Ura, Mitsuru; and Kobayashi, Fumiyuki, 4,651,192, Cl. 357-74.000.

Kobayashi, Fuyuki: *See*—
Eto, Masayuki; Izumi, Kazuyoshi; Kobayashi, Fuyuki; Kawagishi, Mamoru; and Oosawa, Masahiro, 4,639,721, Cl. 340-747.000.

Kobayashi, Hajime: *See*—
Funahashi, Kazutomi; Yoshii, Koichi; Nakamura, Yoichi; Oshikiri, Tatsumi; and Kobayashi, Hajime, 4,668,298, Cl. 106-287.130.

Kobayashi Hansokiki: *See*—
Morita, Tsuneharu; Ikeyama, Toshiharu; Iwaki, Osamu; and Katsuta, Hisao, 4,705,445, Cl. 414-280.000.

Kobayashi, Haruhiko; and Otani, Tadahiko, to Hitachi, Ltd. Air-fuel ratio controlling method and apparatus for an internal combustion engine. 4,681,077, 7-21-87, Cl. 123-489.000.
Kobayashi, Haruhito: *See—*
  Fukuda, Michio; Fudo, Eiji; Tani, Koichi; and Kobayashi, Haruhito, 4,653,182, Cl. 29-754.000.
Kobayashi, Hayahiro: *See—*
  Suzuki, Yoshitaka; Komatsu, Hiroshi; and Kobayashi, Hayahiro, 4,663,940, Cl. 62-127.000.
Kobayashi, Hideaki: *See—*
  Arai, Yoshinao; Takahashi, Shino; Oikawa, Eigo; Sato, Shigeru; and Kobayashi, Hideaki, 4,706,187, Cl. 364-191.000.
Kobayashi, Hideharu: *See—*
  Fujimura, Hiroshi; Kobayashi, Hideharu; Kaneko, Shozo; Iwanaga, Atsumasa; and Ichinari, Joji, 4,676,425, Cl. 228-45.000.
Kobayashi, Hideki; Okumoto, Yutaka; and Komori, Mikio, to Japan Tobacco Inc. Reel attaching and detaching device. 4,660,574, 4-28-87, Cl. 131-105.000.
Kobayashi, Hideki; Okumoto, Yutaka; and Komori, Mikio, to Japan Tobacco Inc. Stocker in reel supply apparatus. 4,681,505, 7-21-87, Cl. 414-744.00R.
Kobayashi, Hidemitsu: *See—*
  Tomite, Tosio; Tani, Tatsuhiro; and Kobayashi, Hidemitsu, 4,707,630, Cl. 310-154.000.
Kobayashi, Hidenobu: *See—*
  Yoshimura, Shushichi; Hiwatashi, Yasunori; Kobayashi, Hiromu; Yamazaki, Hozo; Nishino, Nobu; Tahara, Teruji; and Kobayashi, Hidenobu, 4,693,879, Cl. 423-461.000.
Kobayashi, Hideo; and Tomobe, Norio, to Honda Giken Kogyo Kabushiki Kaisha. Air intake side secondary air supply system for an internal combustion engine. 4,648,374, 3-10-87, Cl. 123-587.000.
Kobayashi, Hideo, to Tachi-S Co., Ltd. Vehicle seat. 4,699,427, 10-13-87, Cl. 297-452.000.
Kobayashi, Hideo: *See—*
  Shimamura, Haruo; Kobayashi, Hideo; and Asakura, Masahiko, 4,683,860, Cl. 123-492.000.
  Watabe, Akira; Tomobe, Norio; and Kobayashi, Hideo, 4,660,533, Cl. 123-588.000.
Kobayashi, Hidetoshi: *See—*
  Mihayashi, Keiji; and Kobayashi, Hidetoshi, 4,656,123, Cl. 430-543.000.
Kobayashi, Hideyuki, to Aisin Seiki Kabushiki Kaisha. Control system and method for a power delivery system having a continuously variable ratio transmission. 4,641,553, 2-10-87, Cl. 74-866.000.
Kobayashi, Hideyuki, to Aisin Seiki Kabushiki Kaisha. Power delivery system having a continuously variable ratio transmission. 4,686,871, 8-18-87, Cl. 74-866.000.
Kobayashi, Hideyuki: *See—*
  Furusawa, Mitsuji; Ueno, Osamu; and Kobayashi, Hideyuki, 4,663,736, Cl. 364-900.000.
Kobayashi, Hiroaki: *See—*
  Asakura, Toshiyuki; Kobayashi, Hiroaki; and Itoh, Nobuaki, 4,645,702, Cl. 428-141.000.
  Deguchi, Yukichi; and Kobayashi, Hiroaki, 4,672,506, Cl. 361-323.000.
  Watanabe, Tsutomu; Saya, Tsutomu; Takashima, Hiroshi; Someya, Ryoichi; and Kobayashi, Hiroaki, 4,677,330, Cl. 310-154.000.
Kobayashi, Hirohiko: *See—*
  Iriuchijima, Shinobu; Kobayashi, Hirohiko; Aoki, Kyoji; Oda, Takeshi; Shinoyama, Masayuki; and Nosaka, Yoshifumi, 4,686,296, Cl. 548-544.000.
Kobayashi, Hiromu: *See—*
  Yoshimura, Shushichi; Hiwatashi, Yasunori; Kobayashi, Hiromu; Yamazaki, Hozo; Nishino, Nobu; Tahara, Teruji; and Kobayashi, Hidenobu, 4,693,879, Cl. 423-461.000.
Kobayashi, Hironobu: *See—*
  Sohma, Ken-ichi; Arashi, Norio; Azuhata, Shigeru; Narato, Kiyoshi; Inada, Tooru; Kobayashi, Hironobu; Ohtsuka, Keizou; and Hishinuma, Yukio, 4,653,998, Cl. 431-79.000.
Kobayashi, Hiroo, to Canon Kabushiki Kaisha. Reduced vibration in a two part assembly for an image recording apparatus. 4,673,956, 6-16-87, Cl. 346-160.000.
Kobayashi, Hiroshi, to Minolta Camera Kabushiki Kaisha. Composite optical element. 4,657,354, 4-14-87, Cl. 350-432.000.
Kobayashi, Hiroshi; Haruyama, Hideaki; and Hirose, Tsuguhiro, to Kabushiki Kaisha Toshiba. Information transmission system in a local area network suitable for collision detection. 4,661,950, 4-28-87, Cl. 370-85.000.
Kobayashi, Hiroshi, to Kabushiki Kaisha Sankodo. Band clamping device for luggage transportation. 4,679,671, 7-14-87, Cl. 190-115.000.
Kobayashi, Hiroshi; Haruyama, Hideaki; and Hirose, Tsuguhiro, to Kabushiki Kaisha Toshiba. System for adjusting signal transmission timing in time-division multiplexing signal transmission. 4,694,453, 9-15-87, Cl. 370-85.000.
Kobayashi, Hiroshi: *See—*
  Kimura, Kazuo; Tanimoto, Tetsuyuki; and Kobayashi, Hiroshi, 4,697,878, Cl. 350-162.110.
  Masuda, Yoshinori; Saito, Hiroshi; and Kobayashi, Hiroshi, 4,690,994, Cl. 526-254.000.
  Morimoto, Kiyoshi; Kawamoto, Masuo; Kobayashi, Hiroshi; Hashizume, Masahiro; Tsudaka, Hideaki; and Kimura, Hiroshi, 4,692,019, Cl. 355-8.000.
  Obayashi, Hiroaki; Kobayashi, Hiroshi; and Takeuchi, Kiyoshi, 4,677,595, Cl. 367-13.000.
  Obayashi, Hiroaki; and Kobayashi, Hiroshi, 4,677,599, Cl. 367-99.000.
  Yasuhara, Seishi; Kobayashi, Hiroshi; Kita, Toru; and Saito, Hideyuki, 4,646,070, Cl. 340-603.000.
Kobayashi, Hiroshige. Portable container for food or drink to be warmed or cooled. 4,685,588, 8-11-87, Cl. 220-428.000.
Kobayashi, Hirotada: *See—*
  Hasegawa, Masatake; Kobayashi, Hirotada; Sunazuka, Hideo; Yoshino, Akira; Matsuda, Takao; and Shingo, Yoshioki, 4,671,896, Cl. 252-609.000.
Kobayashi, Hiroyoshi; and Honda, Kenji, to Kabushiki Kaisha Toshiba. High voltage power supply system including inverter controller. 4,661,896, 4-28-87, Cl. 363-24.000.
Kobayashi, Hiroyuki: *See—*
  Okada, Takashi; Mogi, Takao; Ohmori, Shoji; Tanaka, Yutaka; and Kobayashi, Hiroyuki, 4,635,113, Cl. 358-124.000.
  Okada, Takashi; Mogi, Takao; Kobayashi, Hiroyuki; and Ohi, Katsuyuki, 4,679,235, Cl. 380-20.000.
Kobayashi, Hisamine; and Izuhara, Katsuhiro, to Tipton Manufacturing Corporation. Multi-function work finshing machine using barrel containers. 4,638,600, 1-27-87, Cl. 51-164.200.
Kobayashi, Hisamine; and Izuhara, Katsuhiro, to Tipton Manufacturing Corporation. Apparatus for closing and reopening the cover for a container. 4,664,431, 5-12-87, Cl. 292-260.000.
Kobayashi, Hisamine; and Kato, Atsushi, to Tipton Manufacturing Corporation. Centrifugal barrel finishing method. 4,665,661, 5-19-87, Cl. 51-313.000.
Kobayashi, Hisao; Kawai, Katsunori; and Deguchi, Hiroyuki, to Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Air conditioning unit for vehicle. 4,691,526, 9-8-87, Cl. 62-217.000.
Kobayashi, Hisao: *See—*
  Aoike, Nanjou; Ide, Katsuyuki; Kobayashi, Hisao; and Hamaguchi, Mitsuhiro, 4,635,052, Cl. 340-811.000.
  Kawai, Katsunori; Deguchi, Hiroyuki; Kobayashi, Hisao; and Sugizono, Shuichi, 4,669,272, Cl. 62-228.300.
  Kawai, Katsunori; Kobayashi, Hisao; Deguchi, Hiroyuki; and Sugizono, Shuichi, 4,709,555, Cl. 62-228.300.
Kobayashi, Hisashi: *See—*
  Snyder, William J.; and Kobayashi, Hisashi, 4,693,680, Cl. 431-10.000.
Kobayashi, Ikuya: *See—*
  Nakamura, Kazumasa; Kobayashi, Ikuya; Nogami, Takahiro; Shirai, Akira; Nomura, Yoshihisa; and Ohashi, Kaoru, 4,637,487, Cl. 180-197.000.
  Nakamura, Kazumasa; Kobayashi, Ikuya; Nogami, Takahiro; Shirai, Akira; Ohashi, Kaoru; and Nomura, Yoshihisa, 4,681,374, Cl. 303-106.000.
  Ohashi, Kaoru; Kobayashi, Ikuya; Nogami, Takahiro; Shirai, Akira; Nakamura, Kazumasa; and Nomura, Yoshihisa, 4,685,547, Cl. 192-3.00R.
Kobayashi, Isamu: *See—*
  Sakakibara, Yasuhiro; Kobayashi, Isamu; and Suzuki, Yoshinori, 4,701,886, Cl. 365-189.000.
Kobayashi, Izumi: *See—*
  Takematsu, Tetsuo; Nishii, Masahiro; and Kobayashi, Izumi, 4,680,054, Cl. 71-93.000.
Kobayashi, Jiro; and Yoshikawa, Koichi, to Nippon Kogaku K. K. Positioning apparatus for a circular substrate. 4,685,206, 8-11-87, Cl. 29-740.000.
Kobayashi, Junji; and Kimura, Takashi, to Canon Kabushiki Kaisha. Recording or reproducing apparatus. 4,639,797, 1-27-87, Cl. 360-71.000.
Kobayashi, Junji; and Nakano, Hisashi, to Canon Kabushiki Kaisha. Tape loading device for a recording and/or reproducing apparatus. 4,686,591, 8-11-87, Cl. 360-85.000.
Kobayashi, Junya: *See—*
  Oka, Syotaro; Tahara, Shu; and Kobayashi, Junya, 4,696,796, Cl. 422-88.000.
Kobayashi, Katsuhiko, to Tokyo Kogaku Kikai Kabushiki Kaisha. Non-contact type tonometer. 4,665,923, 5-19-87, Cl. 128-648.000.
Kobayashi, Katsuhiko: *See—*
  Wada, Shinji; and Kobayashi, Katsuhiko, 4,676,612, Cl. 351-211.000.
Kobayashi, Katsumi: *See—*
  Nakajima, Takayuki; Aoki, Tetsuo; Kobayashi, Katsumi; and Akiyama, Noboru, 4,696,004, Cl. 371-25.000.
  Nakajima, Takayuki; Aoki, Tetsuo; Kobayashi, Katsumi; and Akiyama, Noboru, 4,701,918, Cl. 371-20.000.
Kobayashi, Kazuaki: *See—*
  Kumata, Masataka; Emori, Kazuo; Mitsumori, Masahito; Watanabe, Hideo; and Kobayashi, Kazuaki, 4,664,644, Cl. 464-180.000.
  Wakita, Kazuto; Tsuchiya, Kazuo; Kobayashi, Kazuaki; Higashitsuji, Ken; and Kojima, Teruhisa, 4,675,143, Cl. 264-104.000.
Kobayashi, Kazuhiro; Koboshi, Shigeharu; Kuse, Satoru; Miyaoka, Kazuyoshi; and Kurematsu, Masayuki, to Konishiroku Photo Industry Co., Ltd. Automatic processing machine for light-sensitive color photographic material. 4,705,377, 11-10-87, Cl. 354-322.000.
Kobayashi, Kazuhiro; Koboshi, Shigeharu; Kuse, Satoru; Miyaoka, Kazuyoshi; Kurematsu, Masayuki; and Uchida, Makoto, to Konishiroku Photo Industry Co., Ltd. Automatic processing machine for photography. 4,705,379, 11-10-87, Cl. 354-324.000.
Kobayashi, Kazuhiro: *See—*
  Katsuragi, Koji; Ozaki, Hirofumi; Kawahara, Yoshihiro; Matsumoto, Hideki; Tomoe, Tetsuro; and Kobayashi, Kazuhiro, 4,687,357, Cl. 400-208.000.
  Miyaoka, Kazuyoshi; Kobayashi, Kazuhiro; Kuse, Satoru; Kurematsu, Masayuki; and Koboshi, Shigeharu, 4,705,378, Cl. 354-324.000.

Tanaka, M.; Kobayashi, Kazuhiro; and Koboshi, Shigeharu, 4,702,998, Cl. 430-430.000.

Kobayashi, Kazunari: *See—*

Takamura, Koji; Hosoya, Takamasa; and Kobayashi, Kazunari, 4,697,894, Cl. 350-574.000.

Kobayashi, Kazunobu; Sekiguchi, Kyoji; Matsumura, Isao; and Madate, Haruhisa, to Canon Kabushiki Kaisha. Eye fundus camera. 4,690,525, 9-1-87, Cl. 351-206.000.

Kobayashi, Kazuo: *See—*

Kanno, Fuchio; Kobayashi, Kazuo; Sakamoto, Koji; Kaneko, Toshio; and Yasuda, Wataru, 4,656,964, Cl. 118-648.000.

Miyazaki, Kenji; Hagio, Tsuyoshi; Ogawa, Ichitaro; Yoshida, Hisayoshi; Kobayashi, Kazuo; Kashima, Kazutsugu; Tada, Takashi; Hayashi, Yoichiro; and Abe, Wataru, 4,637,884, Cl. 252-12.000.

Sugihara, Masanori; Kurosawa, Atsushi; Okamoto, Akihiko; Bessho, Akira; Shimoda, Kouji; Okuda, Kenji; Kama, Haruo; and Kobayashi, Kazuo, 4,700,338, Cl. 369-77.100.

Takeda, Fuchio; Matsushiro, Hiroyuki; Kobayashi, Kazuo; and Kaneko, Toshio, 4,710,015, Cl. 355-3.0DD.

Kobayashi, Kazutaka: *See—*

Nagata, Tomizou; Mutoh, Yoshiyuki; and Kobayashi, Kazutaka, 4,711,339, Cl. 198-419.000.

Kobayashi, Kazuyoshi; Takizawa, Shozo; Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Kumagai, Naotake; and Tatemoto, Minoru, to Mitsubishi Jidosha Kogyo Kabushiki Kaisha. Vehicle suspension apparatus. 4,673,193, 6-16-87, Cl. 280-707.000.

Kobayashi, Kazuyoshi; Takizawa, Shozo; Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; and Kumagai, Naotake, to Mitsubishi Jidosha Kogyo Kabushiki Kaisha. Vehicle suspension apparatus. 4,695,074, 9-22-87, Cl. 280-707.000.

Kobayashi, Kazuyoshi: *See—*

Ohta, Takahiro; Inuiya, Masafumi; Kobayashi, Kazuyoshi; and Murakami, Takashi, 4,642,700, Cl. 358-285.000.

Sugiura, Yutaka; and Kobayashi, Kazuyoshi, 4,647,192, Cl. 355-64.000.

Takizawa, Shozo; Kobayashi, Kazuyoshi; Fukuyama, Kazuo; Tani, Masanori; Yamamoto, Shoji; Yuasa, Hiroo; Nishimori, Masayoshi; Yoshida, Hiroaki; Eto, Shinichi; Hirao, Eiji; and Goto, Masaki, 4,709,935, Cl. 280-91.000.

Kobayashi, Kazuyuki: *See—*

Onodera, Kaoru; Hohnishi, Satoru; Kobayashi, Kazuyuki; and Shiozawa, Kazuo, 4,715,690, Cl. 350-357.000.

Kobayashi, Ken-ichi: *See—*

Osada, Soichi; Inoue, Hirokatsu; Shimizu, Chuji; Onodera, Yasuaki; Kobayashi, Ken-ichi; Kozima, Kazuo; and Shioda, Shigeyoshi, 4,653,500, Cl. 128-639.000.

Kobayashi, Kenichi, to Fujitsu Limited. Inspection method and apparatus for a mask pattern used in semiconductor device fabrication. 4,641,353, 2-3-87, Cl. 382-8.000.

Kobayashi, Kenichi; and Matsuyama, Takayoshi, to Fujitsu Limited. Inspecting method and apparatus for photomask pattern. 4,669,123, 5-26-87, Cl. 382-8.000.

Kobayashi, Kenichi: *See—*

Matsui, Showgo; and Kobayashi, Kenichi, 4,673,816, Cl. 250-556.000.

Matsuyama, Takayoshi; and Kobayashi, Kenichi, 4,701,859, Cl. 364-490.000.

Kobayashi, Kenji: *See—*

Kikuchi, Yoichi; and Kobayashi, Kenji, 4,678,725, Cl. 429-53.000.

Yanagi, Mikio; Kawada, Shuji; Futatsuya, Fumio; and Kobayashi, Kenji, 4,666,507, Cl. 71-92.000.

Kobayashi, Kensuke; and Tazoh, Yasuo, to Iwatsu Electric Co., Ltd.; and Nippon Telegraph & Telephone Public Corporation. Analog signal measuring apparatus. 4,638,185, 1-20-87, Cl. 307-352.000.

Kobayashi, Kesanao: *See—*

Toyama, Tadao; Kobayashi, Kesanao; Koike, Mitsuru; and Tamoto, Koji, 4,687,727, Cl. 430-175.000.

Kobayashi, Kiyohiko, to Ricoh Company, Ltd. Image data masking device. 4,710,965, 12-1-87, Cl. 382-41.000.

Kobayashi, Kiyomi: *See—*

Kobayashi, Akihiro; Yamaguchi, Shuzo; Kobayashi, Kiyomi; and Takaba, Hiroaki, 4,639,712, Cl. 338-238.000.

Kobayashi, Kiyonori; Kamiya, Masakazu; and Kato, Satoshi, to Aisin Seiki Kabushiki Kaisha; and Toyota Jidosha Kabushiki Kaisha. Torque variation absorbing device. 4,663,983, 5-12-87, Cl. 74-574.000.

Kobayashi, Kiyoshi; and Tsuchiya, Toshihiro, to Hukuba Kogyo Kabushiki Kaisha. Rotary cleaning member in cleaner. 4,646,380, 3-3-87, Cl. 15-41.00R.

Kobayashi, Kiyoshi: *See—*

Komatsu, Teruaki; Kobayashi, Kiyoshi; Tatsu, Kunihiko; and Shibata, Shoichi, 4,695,065, Cl. 279-60.000.

Kobayashi, Kiyotaka; Tsukasaki, Hidaka; and Baba, Takaaki, to Nippondenso Co., Ltd. Self-diagnosis system for exhaust gas recirculation system of internal combustion engine. 4,715,348, 12-29-87, Cl. 123-571.000.

Kobayashi, Kohroh, to NEC Corporation. Optical bistable semiconductor laser producing lasing light in direction normal to semiconductor layers. 4,658,402, 4-14-87, Cl. 372-50.000.

Kobayashi, Kohroh, to NEC Corporation. Bistable optical device. 4,674,100, 6-16-87, Cl. 372-96.000.

Kobayashi, Koichi, to Kabushiki Kaisha Toshiba. Recorded disk playback apparatus. 4,680,748, 7-14-87, Cl. 369-77.100.

Kobayashi, Koji; Sumiya, Koji; Taga, Yutaka; and Watanabe, Kazuaki, to Aisin-Warner Limited; and Toyota Jidosha Kabushiki Kaisha. Support for transmission shaft and hydraulic servo drum. 4,693,353, 9-15-87, Cl. 192-85.0AA.

Kobayashi, Koji: *See—*

Moroto, Shuzo; Sumiya, Koji; Watanabe, Kazuaki; Kubo, Seitoku; Kobayashi, Koji; and Taga, Yutaka, 4,714,146, Cl. 192-85.0AA.

Kobayashi, Kou: *See—*

Kitahara, Toshihiro; Sakai, Yoshiaki; Kobayashi, Kou; and Kikuchi, Satoru, 4,709,283, Cl. 360-99.000.

Kobayashi, Kouzou. Tea-containing tobacco. 4,694,842, 9-22-87, Cl. 131-359.000.

Kobayashi, Kozo; and Goto, Hideo, to Nakamichi Corporation. Operation prohibition device for an audio instrument. 4,710,907, 12-1-87, Cl. 369-6.000.

Kobayashi, Makio: *See—*

Okushima, Hiromi; Narimatsu, Akihiro; Kobayashi, Makio; Furuya, Rikizo; and Kitada, Yoshimi, 4,661,484, Cl. 514-242.000.

Kobayashi, Makoto, to Sharp Kabushiki Kaisha. Artificial respirator automatically releasing respiration path simultaneous with occurrence of unit failure of power interruption. 4,688,565, 8-25-87, Cl. 128-204.190.

Kobayashi, Mamoru, to Tokico Ltd. Control circuit for stepping motor. 4,672,283, 6-9-87, Cl. 318-696.000.

Kobayashi, Mamoru: *See—*

Karasaki, Koichi; Kobayashi, Mamoru; and Hara, Yasuhiko, 4,672,209, Cl. 250-458.100.

Kobayashi, Masaaki; Okubo, Yosiyuki; and Tatsuda, Kazunori, to Ise Electronics Corporation. Fluorescent display tube for light source. 4,692,663, 9-8-87, Cl. 313-495.000.

Kobayashi, Masaaki: *See—*

Yamanishi, Kazuhiro; Kobayashi, Masaaki; and Shimotashiro, Masafumi, 4,704,639, Cl. 358-330.000.

Kobayashi, Masafumi; Nagaoka, Hiroyasu; Hayakawa, Hiroshi; and Kogai, Masamiti, to Mazda Motor Corporation. Vehicle transfer system. 4,665,832, 5-19-87, Cl. 104-165.000.

Kobayashi, Masaharu; Okamoto, Hiroo; and Arai, Takao, to Hitachi, Ltd. Method and apparatus for recording and reproducing a digital signal with a stationary head. 4,646,170, 2-24-87, Cl. 360-22.000.

Kobayashi, Masaharu; Noguchi, Takaharu; Arai, Takao; Masuda, Michio; and Yumde, Yasufumi, to Hitachi, Ltd. Rotary head type PCM recorder. 4,670,796, 6-2-87, Cl. 358-310.000.

Kobayashi, Masaharu: *See—*

Ito, Masahiro; Kobayashi, Masaharu; and Arai, Takao, 4,716,567, Cl. 371-40.000.

Nishimura, Keizo; Kobayashi, Masaharu; Okamoto, Hiroo; Noguchi, Takaharu; Arai, Takao; and Shibuya, Toshifumi, 4,649,542, Cl. 371-39.000.

Okamoto, Hiroo; Kobayashi, Masaharu; Kimura, Hiroyuki; Noguchi, Takaharu; and Arai, Takao, 4,646,301, Cl. 371-37.000.

Okamoto, Hiroo; and Kobayashi, Masaharu, 4,660,200, Cl. 371-37.000.

Okamoto, Hiroo; Kobayashi, Masaharu; Nishimura, Keizo; Noguchi, Takaharu; Arai, Takao; and Shibuya, Toshifumi, 4,677,622, Cl. 371-39.000.

Okamoto, Hiroo; Kobayashi, Masaharu; Noguchi, Takaharu; and Arai, Takao, 4,682,332, Cl. 371-38.000.

Okamoto, Hiroo; and Kobayashi, Masaharu, 4,704,640, Cl. 360-32.000.

Takahashi, Hiroaki; Kobayashi, Masaharu; Noguchi, Takaharu; Shibuya, Toshifumi; and Arai, Takao, 4,685,004, Cl. 360-32.000.

Kobayashi, Masahide: *See—*

Dupont, Bo; Hoffman, Michael K.; Collins, Nancy; Yang, Soo Y.; Morishima, Yasuo; and Kobayashi, Masahide, 4,677,056, Cl. 435-7.000.

Kobayashi, Masahiko, to Kuron Kabushiki Kaisha. Remote control blind system. 4,712,104, 12-8-87, Cl. 340-825.520.

Kobayashi, Masahiro; Yamazaki, Susumu; Mikawa, Takashi; Nakajima, Kazuo; and Kaneda, Takao, to Fujitsu Limited. Avalanche multiplication photodiode having a buried structure. 4,656,494, 4-7-87, Cl. 357-30.000.

Kobayashi, Masahiro: *See—*

Kuze, Katsuaki; Nishino, Yasahiro; Matsuyama, Yujiro; Maeda, Kozo; Kobayashi, Masahiro; Okudaira, Tadashi; Hongo, Tsuyoshi; and Makimura, Osamu, 4,693,932, Cl. 428-323.000.

Kobayashi, Masakazu: *See—*

Ueda, Ikuo; Kobayashi, Masakazu; and Kitaguchi, Tadashi, 4,703,046, Cl. 514-202.000.

Kobayashi, Masami. Process for electroplating amorphous alloys. 4,652,347, 3-24-87, Cl. 204-34.000.

Kobayashi, Masamichi: *See—*

Sawai, Masaaki; Kobayashi, Masamichi; Hayashi, Shoji; Naka, Hiroshi; and Ichiki, Masahiro, 4,692,927, Cl. 372-46.000.

Kobayashi, Masanori: *See—*

Isao, Matsuura; Kobayashi, Masanori; and Wakatsuki, Akira, 4,659,764, Cl. 524-399.000.

Katayama, Kazuso; Ichiryuu, Taku; Mouri, Yasushi; Mitsuhashi, Tsuneyoshi; and Kobayashi, Masanori, 4,708,587, Cl. 415-104.000.

Katayama, Kazuso; Ichiryu, Taku; Mitsuhashi, Tsuneyoshi; Mori, Yasushi; and Kobayashi, Masanori, 4,715,778, Cl. 415-104.000.

Katayama, Kazuzo; Ichiryu, Taku; Mitsuhashi, Tsuneyoshi; Mouri, Yasushi; and Kobayashi, Masanori, 4,697,987, Cl. 416-204.00A.

Mouri, Yasushi; Katayama, Kazuzo; Ichiryu, Taku; Mitsuhashi, Tsuneyoshi; and Kobayashi, Masanori, 4,706,969, Cl. 277-83.000.

Kobayashi, Masao: *See—*

Akimoto, Takashi; Kai, Akio; Kobayashi, Masao; and Itoh, Haruo, 4,658,101, Cl. 200-16.00R.

Ishii, Kazuhiro; Uno, Tetsuya; Kato, Masaki; and Kobayashi, Masao, 4,707,460, Cl. 502-26.000.

Wudl, Fred; Kobayashi, Masao; and Heeger, Alan, 4,640,748, Cl. 204-59.00R.

Kobayashi, Masaru; Koyanagi, Hironobu; and Sato, Takahiro, to Toray Silicone Co., Ltd. Method for producing a liquid silicone rubber base. 4,649,005, 3-10-87, Cl. 264-101.000.

Kobayashi, Masashi, to Maruman Golf Co., Ltd. Device for measuring a stiffness of a golf-club shaft. 4,682,504, 7-28-87, Cl. 73-854.000.

Kobayashi, Masashi, to Maruman Golf Co., Ltd. Club-head. 4,690,408, 9-1-87, Cl. 273-169.000.

Kobayashi, Masashi; Takahashi, Keishi; and Yoneyama, Kimiya, to International Business Machines Corporation. Temperature compensating mechanism for positioning of a magnetic head of a magnetic disk drive. 4,691,258, 9-1-87, Cl. 360-97.000.

Kobayashi, Masashi, to Maruman Golf Co., Ltd. Club-head. 4,699,383, 10-13-87, Cl. 273-169.000.

Kobayashi, Masashi, to Maruman Golf Co., Ltd. Club-head. 4,708,347, 11-24-87, Cl. 273-171.000.

Kobayashi, Masashi: *See—*

Shirato, Kozo; Hiraizumi, Kazuo; Kobayashi, Masashi; and Kawashima, Kazuyasu, 4,652,364, Cl. 210-87.000.

Shirato, Kozo; Hiraizumi, Kazuo; Kawashima, Kazuyasu; Okuyama, Shinya; Kobayashi, Masashi; Tanaka, Minoru; Takeya, Akira; Yamamoto, Yoshio; Koyama, Yasuo; Shinohara, Satoshi; and Yunoki, Toru, 4,686,552, Cl. 324-439.000.

Kobayashi, Masatoshi: *See—*

Nakayama, Iwao; Kobayashi, Masatoshi; Ichinose, Kazushige; and Nasuno, Kenji, 4,677,397, Cl. 331-187.000.

Kobayashi, Masatsune; Eida, Tsuyoshi; Koike, Shoji; and Nakousai, Keiko, to Canon Kabushiki Kaisha. Recording liquid. 4,661,158, 4-28-87, Cl. 106-22.000.

Kobayashi, Masatsune: *See—*

Haruta, Masahiro; Kobayashi, Masatsune; and Ohta, Tokuya, 4,655,834, Cl. 106-20.000.

Haruta, Masahiro; Kobayashi, Masatsune; and Ohta, Tokuya, 4,655,835, Cl. 106-20.000.

Mirua, Konoe; Takimoto, Hiroshi; Kaneko, Toshio; Ohta, Tokuya; Kobayashi, Masatsune; and Eida, Tsuyoshi, 4,683,002, Cl. 106-20.000.

Kobayashi, Masayasu; and Eno, Julius R., Jr., to Hamamatsu Photonics Kabushiki Kaisha. Hollow cathode lamp. 4,698,550, 10-6-87, Cl. 313-618.000.

Kobayashi, Michiaki: *See—*

Takeuchi, Hideo; Kobayashi, Michiaki; Yoritsune, Osamu; and Matsumoto, Takemasa, 4,694,749, Cl. 101-426.000.

Takeuchi, Hideo; Kobayashi, Michiaki; and Shibasaki, Makoto, 4,703,691, Cl. 101-365.000.

Kobayashi, Michio, to Jidosha Kiki Co., Ltd. Brake booster. 4,640,097, 2-3-87, Cl. 60-554.000.

Kobayashi, Michio: *See—*

Arino, Masao; and Kobayashi, Michio, 4,689,958, Cl. 60-547.100.

Tanaka, Kazunobu; and Kobayashi, Michio, 4,644,034, Cl. 525-68.000.

Kobayashi, Mikio, to Ricoh Company, Ltd. Input/output port including auxiliary low-power transistors. 4,680,487, 7-14-87, Cl. 307-475.000.

Kobayashi, Mikio: *See—*

Araki, Kunihiko; Kitajima, Tomoya; Serikawa, Yoshio; Terui, Hiroshi; Koyama, Kenji; and Kobayashi, Mikio, 4,653,885, Cl. 354-173.100.

Inoue, Senya; Ono, Akira; Kobayashi, Mikio; and Yokoo, Hiroshi, 4,698,317, Cl. 501-9.000.

Kobayashi, Mikiya; Nakada, Takeshi; and Arai, Michio, to TDK Corporation. Thermal head with invertible heating resistors. 4,679,056, 7-7-87, Cl. 346-76.0PH.

Kobayashi, Mineo; Yoshida, Takeshi; Aoki, Masahiro; Okubo, Masao; and Nagayama, Masaaki, to Nippon Stainless Steel Co. Ltd.; and Sumitomo Chemical Co., Ltd. Manufacturing process for plate or forging of ferrite-austenite two-phase stainless steel. 4,659,397, 4-21-87, Cl. 148-12.00E.

Kobayashi, Minoru; Iizuka, Kenichi; and Uzuhashi, Hideo, to Hitachi, Ltd. System of controlling refrigerator temperature. 4,662,185, 5-5-87, Cl. 62-228.400.

Kobayashi, Minoru, to Nisshin Seiki Kabushiki Kaisha. Vehicle washing apparatus. 4,711,257, 12-8-87, Cl. 134-56.00R.

Kobayashi, Mitaka: *See—*

Nakaya, Keiichi; Tanaka, Kunio; Kanno, Fukuo; and Kobayashi, Mitaka, 4,698,379, Cl. 523-513.000.

Kobayashi, Mitsugu: *See—*

Ito, Katsumi; Okuyama, Shigeaki; Nakamura, Norimi; Kuroiwa, Yoshizo; Fujiwara, Kouji; Nakamura, Kunisuke; Fujiwara, Osami; Yoshida, Jituo; and Kobayashi, Mitsugu, 4,671,376, Cl. 180-249.000.

Kobayashi, Mitsunori: *See—*

Fujii, Hiroshi; Hara, Akio; Kobayashi, Mitsunori; and Mori, Yoshikatsu, 4,643,620, Cl. 407-119.000.

Kobayashi, Mitsuo: *See—*

Kitaya, Katsuhiko; Iida, Naohiro; Miyake, Atsushi; Kobayashi, Mitsuo; and Shirai, Akira, 4,685,180, Cl. 29-33.00R.

Sagisawa, Shinobu; Takahama, Teizo; and Kobayashi, Mitsuo, 4,695,963, Cl. 364-513.000.

Watanabe, Kikuo; Kobayashi, Mitsuo; Hirose, Noboru; and Sato, Keiichi, 4,679,296, Cl. 29-568.000.

Yamamoto, Shigehiro; Hashimoto, Terukuni; Kobayashi, Mitsuo; Iwaki, Tsugishige; Tamura, Katsushige; and Saijo, Hideo, 4,702,872, Cl. 264-114.000.

Kobayashi, Mitsuru: *See—*

Miyazawa, Hideo; Andoh, Ikuhiro; Koyama, Hiromichi; and Kobayashi, Mitsuru, 4,714,306, Cl. 439-395.000.

Kobayashi, Mituharu, to Kobayashi Tools Mfg. Co., Ltd. Hand-operated cable cutter. 4,677,748, 7-7-87, Cl. 30-250.000.

Kobayashi, Naoki: *See—*

Kaneko, Kouji; Horio, Motohiko; Kobayashi, Naoki; and Okada, Fujio, 4,669,841, Cl. 352-216.000.

Kobayashi, Naotake; Abe, Tetsuya; Shinohara, Satoru; and Fujiwara, Yoshio, to Sony Corporation. Sublimation ink ribbon. 4,651,645, 3-24-87, Cl. 101-470.000.

Kobayashi, Naotake; Abe, Tetsuya; Satoru, Shinohara; and Fujiwara, Yoshio, to Sony Corporation. Ink ribbon for sublimation transfer type hard copy. 4,666,320, 5-19-87, Cl. 400-241.100.

Kobayashi, Naotake; Abe, Tetsuya; and Fujiwara, Yoshio, to Sony Corporation. Sublimation transfer type color hard-copy printing paper. 4,668,560, 5-26-87, Cl. 428-195.000.

Kobayashi, Noboru, to Kabushiki Kaisha Toshiba. Input circuit for a stacked type piezo-electric element device. 4,641,052, 2-3-87, Cl. 310-317.000.

Kobayashi, Nobuo: *See—*

Mochizuki, Hiroyuki; Kobayashi, Nobuo; Inuzuka, Yutaka; Aiba, Shigeo; and Nishi, Setsuo, 4,683,769, Cl. 74-422.000.

Takeshita, Hajime; Iwase, Takahiro; Masuda, Naofumi; Sibata, Takuo; Mochizuki, Hiroyuki; Kobayashi, Nobuo; Kawakami, Seiho; and Kuroiwa, Yosio, 4,693,813, Cl. 409-244.000.

Kobayashi, Nobutoshi: *See—*

Yoshida, Naoki; and Kobayashi, Nobutoshi, 4,692,598, Cl. 219-497.000.

Kobayashi, Nobuyuki; and Ito, Toshimitsu, to Toyota Jidosha Kabushiki Kaisha. Method and apparatus for controlling air-fuel ratio in internal combustion engine. 4,644,921, 2-24-87, Cl. 123-489.000.

Kobayashi, Nobuyuki; and Hattori, Takashi, to Toyota Jidosha Kabushiki Kaisha. Method and apparatus for controlling air-fuel ratio in internal combustion engine. 4,648,370, 3-10-87, Cl. 123-489.000.

Kobayashi, Nobuyuki; Ito, Toshimitsu; Akatsuka, Takao; and Ninomiya, Masakazu, to Toyota Jidosha Kabushiki Kaisha; and Nippondenso Co., Ltd. Method and apparatus for controlling air-fuel ration in internal combustion engine. 4,651,700, 3-24-87, Cl. 123-489.000.

Kobayashi, Nobuyuki; Hattori, Takashi; Yagi, Katsunori; and Ito, Toshimitsu, to Toyota Jidosha Kabushiki Kaisha. Method and apparatus for detecting surging in internal combustion engine. 4,653,451, 3-31-87, Cl. 123-489.000.

Kobayashi, Nobuyuki; Hattori, Takashi; Yagi, Katsunori; and Ito, Toshimitsu, to Toyota Jidosha Kabushiki Kaisha. Method and apparatus for controlling air-fuel ratio in internal combustion engine. 4,713,766, 12-15-87, Cl. 364-431.050.

Kobayashi, Nobuyuki: *See—*

Kushi, Naoto; Okano, Hiroshi; Kobayashi, Nobuyuki; and Sugita, Naoki, 4,696,275, Cl. 123-478.000.

Umeyama, Mitsuhiro; Wakahara, Kaoru; Ohtani, Hisao; Kametaka, Kenichi; Kinoshita, Masaru; and Kobayashi, Nobuyuki, 4,693,354, Cl. 192-106.100.

Kobayashi, Norihide: *See—*

Inaba, Tsutomu; Sugihara, Masahiro; Nakamura, Toshiyuki; Oide, Masahiko; Kimura, Tadashi; and Kobayashi, Norihide, 4,702,681, Cl. 418-55.000.

Inaba, Tsutomu; Sugihara, Masahiro; Nakamura, Toshiyuki; Oide, Masahiko; Kimura, Tadashi; and Kobayashi, Norihide, 4,702,682, Cl. 418-55.000.

Inaba, Tsutomu; Sugihara, Masahiro; Nakamura, Toshiyuki; Oide, Masahiko; Kimura, Tadashi; and Kobayashi, Norihide, 4,702,683, Cl. 418-55.000.

Inaba, Tsutomu; Kimura, Tadashi; Kobayashi, Norihide; Sugihara, Masahiro; and Matsugi, Tetsuzo, 4,715,796, Cl. 418-55.000.

Nakamura, Toshiyuki; Sugihara, Masahiro; Inaba, Tsutomi; Oide, Masahiko; Kimura, Tadashi; and Kobayashi, Norihide, 4,655,697, Cl. 418-55.000.

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Kobayashi, Osamu; Akagawa, Masaki; and Hayashi, Hiroshi, to Nippon Coinco Kabushiki Kaisha. Bill validating and accumulating device. 4,678,072, 7-7-87, Cl. 194-206.000.

Kobayashi, Osamu; Akagawa, Masaki; Tanaka, Masanori; Ishii, Jun; and Yamagishi, Ryoji, to Nippon Coinco Co., Ltd. Control system of a vending machine. 4,706,202, 11-10-87, Cl. 364-479.000.

Kobayashi, Osamu: *See—*

Hashimoto, Tadanori; Hama, Masaaki; and Kobayashi, Osamu, 4,649,003, Cl. 264-63.000.

Kobayashi, Ryohei: *See—*

Yamamoto, Toshiro; Kobayashi, Ryohei; Kurimoto, Mamoru; and Ozone, Toshio, 4,711,675, Cl. 148-144.000.

Kobayashi, Ryooichi: *See—*

Kitagishi, Tomoji; Sasaki, Akira; Hakoyama, Akiyoshi; Furukawa, Shigetaka; Suzaki, Masafumi; Kobayashi, Ryooichi; Mikami, Katsumasa; Takahashi, Yoshihito; Nagano, Yousuke; and Honma, Takeo, 4,707,708, Cl. 346-76.0PH.

Kobayashi, Ryuichi; Akashi, Akira; and Kawamura, Masaharu, to Canon Kabushiki Kaisha. Electrical power supply circuit in a camera. 4,636,056, 1-13-87, Cl. 354-484.000.

Kobayashi, Ryuichi: *See—*
- Harada, Yoshihito; Kiuchi, Masayoshi; Kobayashi, Ryuichi; and Kawamura, Masaharu, 4,702,585, Cl. 354-410.000.
- Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, 4,679,925, Cl. 354-173.100.
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- Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, 4,699,487, Cl. 354-173.100.
- Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, 4,716,428, Cl. 354-173.110.
- Kiuchi, Masayoshi; Harada, Yoshihito; Kobayashi, Ryuichi; and Kawamura, Masaharu, 4,676,624, Cl. 354-410.000.
- Ohara, Tsunemasa; Suzuki, Masayuki; Tosaka, Yoichi; Kobayashi, Ryuichi; Harada, Yoshihito; and Kawamura, Masaharu, 4,671,635, Cl. 354-173.100.
- Suzuki, Masayuki; Ohara, Tsunemasa; Tosaka, Yoichi; Kobayashi, Ryuichi; Harada, Yoshihito; and Kawamura, Masaharu, 4,659,201, Cl. 354-152.000.
- Suzuki, Masayuki; Ohara, Tsunemasa; Tosaka, Yoichi; Kobayashi, Ryuichi; Harada, Yoshihito; and Kawamura, Masaharu, 4,673,272, Cl. 354-173.110.
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Kobayashi, Sadao; Sukawa, Hiroshi; and Yamamoto, Sadaaki, to Mitsui Toatsu Chemicals, Inc. Iodine cell. 4,656,105, 4-7-87, Cl. 429-192.000.

Kobayashi, Sadao: *See—*
- Itoh, Hiroshi; Nakagawa, Toshimi; Nitta, Atsuhiko; Tanaka, Tomio; Kamio, Hideo; Enoshita, Ryosuke; Uejima, Tamotu; Ouchi, Takahiro; Abe, Kazuki; and Kobayashi, Sadao, 4,683,258, Cl. 524-434.000.

Kobayashi, Satoru; and Tanaka, Satoshi, to Junkosha Co., Ltd. Sensor for detecting leaks of corrosive liquid. 4,677,373, 6-30-87, Cl. 324-65.0LR.

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- Fujino, Kiyohiko; Namazue, Hirotoshi; Okuya, Shigetami; Tsutsumi, Shunsaku; Kobayashi, Satoru; and Shimizu, Keiichi, 4,700,186, Cl. 340-825.720.
- Imaizumi, Haruo; and Kobayashi, Satoru, 4,640,123, Cl. 73-61.10R.

Kobayashi, Satoshi: *See—*
- Awane, Misao; Hara, Seiji; and Kobayashi, Satoshi, 4,706,794, Cl. 194-217.000.
- Nakamura, Ichiro; Kobayashi, Satoshi; and Sasaki, Eiichi, 4,715,478, Cl. 187-111.000.

Kobayashi, Seiichi: *See—*
- Yamatsu, Isao; Abe, Shinya; Inai, Yuichi; Suzuki, Takeshi; Kinoshita, Kensaku; Mishima, Mannen; Katoh, Yoshinori; Kobayashi, Seiichi; Murakami, Manabu; and Yamada, Kouzi, 4,709,079, Cl. 560-66.000.

Kobayashi, Seiko: *See—*
- Yasui, Shigeo; Ono, Masashi; Kobayashi, Seiko; Senzai, Shigeo; and Uchida, Tatsuo, 4,676,923, Cl. 252-299.100.

Kobayashi, Seishichi: *See—*
- Taira, Kazuo; Morofuji, Akihiko; Kobayashi, Seishichi; and Ueno, Hiroshi, 4,683,263, Cl. 525-57.000.

Kobayashi, Shigenobu; Takabayashi, Fumiki; and Yamada, Setsuo, to Teijin Limited. Antistatic polyester fabric having water repellency. 4,666,764, 5-19-87, Cl. 428-254.000.

Kobayashi, Shigeo: *See—*
- Endo, Fumihiro; Kobayashi, Shigeo; and Yoshioka, Yoshio, 4,667,072, Cl. 200-148.00A.
- Kobayashi, Takuma; Kitagawa, Hironobu; and Kobayashi, Shigeo, 4,670,510, Cl. 525-89.000.

Kobayashi, Shigeru: *See—*
- Hirata, Tadashi; Kobayashi, Shigeru; Takahashi, Keiichi; Morimoto, Makoto; and Arai, Yuko, 4,650,869, Cl. 544-343.000.
- Hirata, Tadashi; Hashimoto, Yukio; Ogasa, Takehiro; Kobayashi, Shigeru; Sato, Akira; Sato, Kiyoshi; and Takasawa, Seigo, 4,663,450, Cl. 540-205.000.
- Hirawata, Seiichi; and Kobayashi, Shigeru, 4,700,162, Cl. 335-196.000.
- Ichimaru, Yoshiro; Kobayashi, Shigeru; and Ohashi, Toshio, 4,709,751, Cl. 165-17.000.

Kobayashi, Shigeyoshi; and Manabe, Tsuneo, to Asahi Glass Company, Ltd. Method for molding calcium phosphate type glass. 4,662,924, 5-5-87, Cl. 65-66.000.

Kobayashi, Shigeyoshi; Manabe, Tsuneo; and Yanagisawa, Ichiro, to Asahi Glass Company Ltd. Composition for staining material. 4,693,748, 9-15-87, Cl. 106-35.000.

Kobayashi, Shinichiro: *See—*
- Shibuta, Daisuke; Kobayashi, Shinichiro; Yoshizumi, Motohiko; and Arai, Hideo, 4,668,501, Cl. 423-608.000.

Kobayashi, Shinzo: *See—*
- Kakimi, Fujio; Matsukawa, Hiroharu; Akiyoshi, Yutaka; and Kobayashi, Shinzo, 4,650,769, Cl. 436-533.000.

Kobayashi, Shoichi; and Kainuma, Keiji, to Director of National Food Research Institute, Ministry of Agriculture, Forestry and Fisheries. Method for the preparation of branched cyclodextrins. 4,668,626, 5-26-87, Cl. 435-95.000.

Kobayashi, Shozo: *See—*
- Tsuji, Takashi; Kobayashi, Shozo; and Nagase, Toshio, 4,636,196, Cl. 604-122.000.

Kobayashi, Shuji: *See—*
- Naka, Hiroshi; Seko, Ichiro; Kobayashi, Shuji; and Haneda, Makoto, 4,701,927, Cl. 372-46.000.

Kobayashi, Shunji: *See—*
- Watanabe, Teruoki; Nakamura, Yahiko; Hidaka, Akio; Kobayashi, Shunji; and Nozaki, Hiroyoshi, 4,659,628, Cl. 428-457.000.

Kobayashi, Shunsuke; Matsuyama, Yoshihiko; and Koutake, Masayoshi, to Dai-Ichi Seiko Kabushiki Kaisha. Liquid crystal material including magnetic particles and method of producing the same. 4,701,024, 10-20-87, Cl. 350-331.00R.

Kobayashi, Sumio: *See—*
- Hatono, Akio; and Kobayashi, Sumio, 4,693,614, Cl. 374-122.000.

Kobayashi, Susumu; and Morikawa, Hideyuki, to Terumo Corporation. Method and apparatus for preventing pulsations. 4,648,812, 3-10-87, Cl. 417-477.000.

Kobayashi, Susumu; Muramoto, Yutaka; Ishizaka, Hideo; and Ishii, Yoshinori, to Terumo Kabushiki Kaisha. Electronic clinical thermometer. 4,684,869, 8-4-87, Cl. 320-2.000.

Kobayashi, Tadao: *See—*
- Setsuie, Takashi; Otani, Takeji; and Kobayashi, Tadao, 4,661,572, Cl. 526-229.000.

Kobayashi, Tadashi, to Daikin Industries Ltd. Outdoor unit for an air conditioning apparatus of through-the-wall multitype. 4,641,503, 2-10-87, Cl. 62-259.100.

Kobayashi, Tadashi, to NEC Corporation. Magnetophoresis type display and graphic input/output device using the same. 4,675,476, 6-23-87, Cl. 178-18.000.

Kobayashi, Tadashi; and Sato, Toshio, to NEC Corporation. Graphical input device with rules. 4,689,447, 8-25-87, Cl. 178-18.000.

Kobayashi, Tadashi; and Nozaki, Shinya, to Diesel Kiki Co., Ltd. Distributor-type fuel injection pump. 4,697,565, 10-6-87, Cl. 123-449.000.

Kobayashi, Taishi: *See—*
- Endo, Morinobu; Takamizawa, Minoru; Hongu, Tatsuhiko; and Kobayashi, Taishi, 4,676,966, Cl. 423-345.000.
- Takamizawa, Minoru; Kobayashi, Taishi; Ishihara, Toshinobu; Takeda, Yoshihumi; and Hayashida, Akira, 4,657,991, Cl. 525-477.000.

Kobayashi, Takaaki: *See—*
- Yasunami, Masabumi; Takase, Kohei; Shinji, Akira; Mimura, Toru; Torii, Kunio; Kobayashi, Takaaki; Okutsu, Masaru; and Meguro, Takashi, 4,656,194, Cl. 514-693.000.

Kobayashi, Takahide, to Koken Co. Lens grinding apparatus. 4,633,618, 1-6-87, Cl. 51-101.0LG.

Kobayashi, Takao; Abe, Shigeo; Bandoh, Tadaaki; Takatoo, Masao; Matsumoto, Hidekazu; and Hara, Hideyuki, to Hitachi, Ltd.; and Hitachi Engineering Co., Ltd. Floating point data adder. 4,644,490, 2-17-87, Cl. 364-748.000.

Kobayashi, Takashi; and Maruyama, Yuji, to West Electric Company, Ltd. Electric flash device. 4,697,906, 10-6-87, Cl. 354-416.000.

Kobayashi, Takashi: *See—*
- Tanaka, Yukitaka; Irinatsu, Yuichi; Noguchi, Aiko; and Kobayashi, Takashi, 4,705,692, Cl. 426-607.000.

Kobayashi, Takatoshi: *See—*
- Yamasaki, Harumasa; Kobayashi, Takatoshi; Ito, Osamu; Sakurai, Akira; and Sumida, Yuzo, 4,666,975, Cl. 524-733.000.

Kobayashi, Takayuki: *See—*
- Yoshimura, Toshiteru; Kobayashi, Takayuki; and Ono, Masayoshi, 4,709,943, Cl. 280-751.000.

Kobayashi, Takehiro: *See—*
- Emura, Masaharu; Uetsuki, Haruo; Aoki, Atsuhito; and Kobayashi, Takehiro, 4,708,303, Cl. 242-218.000.
- Maruyama, Kenji; and Kobayashi, Takehiro, 4,705,228, Cl. 242-84.20G.
- Murakami, Hideo; and Kobayashi, Takehiro, 4,640,471, Cl. 242-84.530.
- Uetsuki, Haruo; Kobayashi, Takehiro; and Yamane, Hiroto, 4,710,689, Cl. 318-630.000.

Kobayashi, Takeshi; Ishii, Ryouichi; and Kitamoto, Tomoyoshi, to Japan Tobacco Inc. Control apparatus. 4,679,135, 7-7-87, Cl. 364-146.000.

Kobayashi, Takuma; Kitagawa, Hironobu; and Kobayashi, Shigeo, to Toyo Boseki Kabushiki Kaisha. Polyester type block copolymer composition. 4,670,510, 6-2-87, Cl. 525-89.000.

Kobayashi, Takuma; Kitagawa, Hironobu; Kaneshige, Noritsugu; and Makimura, Osamu, to Toyo Boseki Kabushiki Kaisha. Continuous production of elastic polyesters. 4,680,345, 7-14-87, Cl. 525-437.000.

Kobayashi, Tamotsu; Goto, Shigeru; Ohta, Hironobu; and Torimaru, Takashi, to Yokogawa Hokushin Electric Corporation. Electromagnetic flow meter converter. 4,680,973, 7-21-87, Cl. 73-861.160.

Kobayashi, Tatuo: *See—*
- Nakano, Yuji; Kamiyama, Kazushi; and Kobayashi, Tatuo, 4,703,020, Cl. 501-86.000.

Kobayashi, Tazo, to Collector's Armoury, Inc., The. Infrared ray target for model gun. 4,652,740, 3-24-87, Cl. 250-215.000.

Kobayashi, Teruo; and Uchida, Sadao, to Toyoda Gosei Co., Ltd. Steering wheel with integrally-skinned foamed thermoplastic resin-covered handwheel core having flow mark-obscuring abrasion-resistant coating. 4,640,150, 2-3-87, Cl. 74-552.000.

Kobayashi, Teruo: *See—*

Suzuki, Hiroaki; and Kobayashi, Teruo, 4,651,190, Cl. 357-45.000.

Kobayashi, Tetsuhiko: *See—*

Haruta, Masatake; Sano, Hiroshi; and Kobayashi, Tetsuhiko, 4,698,324, Cl. 502-243.000.

Kobayashi, Tetuo, to Nippon Cable System Inc. Mechanism for automatically regulating tension of wires employed in a window regulator. 4,662,236, 5-5-87, Cl. 74-501.00R.

Kobayashi, Tomio: *See—*

Yamauchi, Kazushi; Ogata, Muneyuki; Kobayashi, Tomio; Kubota, Makoto; and Kumura, Tatsuo, 4,671,828, Cl. 148-309.000.

Yamauchi, Kazushi; Ogata, Muneyuki; Kobayashi, Tomio; Kubota, Makoto; and Kumura, Tatsuo, 4,683,012, Cl. 148-301.000.

Kobayashi Tools Mfg. Co., Ltd.: *See—*

Kobayashi, Mituharu, 4,677,748, Cl. 30-250.000.

Kobayashi, Toshiaki; Arakawa, Hiromichi; and Ohira, Tatsuo, to Nippon Zeon Co. Ltd. Vinyl chloride resin composition. 4,642,324, 2-10-87, Cl. 524-559.000.

Kobayashi, Toshiaki; Sanada, Kazuo; Murayama, Toshiaki; Sugawara, Yasuyuki; Uesugi, Naoshi; and Ishihara, Koushi, to Fujikura Ltd.; and Nippon Telegraph & Telephone Public Corporation. Optical fiber. 4,679,899, 7-14-87, Cl. 350-96.300.

Kobayashi, Toshifumi: *See—*

Mashiko, Koichiro; Yamada, Michihiro; Arimoto, Kazutami; Miyamoto, Hiroshi; Kobayashi, Toshifumi; and Morooka, Yoshikazu, 4,641,281, Cl. 365-189.000.

Miyamoto, Hiroshi; Mashiko, Koichiro; Kobayashi, Toshifumi; and Yamada, Michihiro, 4,689,770, Cl. 365-149.000.

Kobayashi, Toshihiko: *See—*

Sugio, Akitoshi; Okabe, Masao; and Kobayashi, Toshihiko, 4,663,376, Cl. 524-195.000.

Kobayashi, Toshiji; and Matsumoto, Katsumi, to Kabushiki Kaisha Sankyo Seiki Seisakusho. Small size motor. 4,639,628, 1-27-87, Cl. 310-194.000.

Kobayashi, Toshikazu: *See—*

Masaki, Mikio; and Kobayashi, Toshikazu, 4,671,090, Cl. 70-455.000.

Kobayashi, Toshiki; Fukami, Akira; Mizuno, Junzi; and Sasaya, Hideaki, to Nippon Soken, Inc. Air spoiler apparatus with solar cells for vehicle. 4,660,879, 4-28-87, Cl. 296-1.00S.

Kobayashi, Toshiki: *See—*

Ishimaru, Hitoshi; and Kobayashi, Toshiki, 4,713,209, Cl. 376-211.000.

Noguchi, Hiroki; Kobayashi, Toshiki; Fukami, Akira; Hattori, Tadashi; Sakakibara, Nobuyoshi; and Nabeta, Teiichi, 4,689,056, Cl. 55-138.000.

Kobayashi, Toshio; and Hishiki, Hideo, to Victor Company of Japan, Ltd. Picture correcting apparatus for use with in-line type color picture tube. 4,642,528, 2-10-87, Cl. 315-368.000.

Kobayashi, Toshio; and Mura, Shinichirou, to Fuji Jukogyo Kabushiki Kaisha. Apparatus for selecting a power transmission system of a four-wheel drive motor vehicle. 4,651,848, 3-24-87, Cl. 180-247.000.

Kobayashi, Toshio, to Fuji Jukogyo Kabushiki Kaisha. Reverse check mechanism for a transmission in a motor vehicle. 4,662,235, 5-5-87, Cl. 74-476.000.

Kobayashi, Toshio; Takagi, Kazumasa; and Fukazawa, Tokuumi, to Hitachi, Ltd. Optical waveguide and method for making the same. 4,691,983, 9-8-87, Cl. 350-96.120.

Kobayashi, Toshio, to Nissan Motor Co., Ltd. Windshield wiper. 4,697,297, 10-6-87, Cl. 15-250.230.

Kobayashi, Toshio: *See—*

Ahagon, Asahiro; Kobayashi, Toshio; Yamada, Kazuhiro; Doi, Seiichi; and Misawa, Makoto, 4,635,693, Cl. 152-209.00R.

Fujisaki, Kiyonori; and Kobayashi, Toshio, 4,684,839, Cl. 310-154.000.

Fujisaki, Kiyonori; Kobayashi, Toshio; and Kato, Heihachi, 4,686,400, Cl. 310-67.00R.

Ito, Masaaki; and Kobayashi, Toshio, 4,704,564, Cl. 315-368.000.

Ohdaira, Akio; Suga, Michiharu; Kato, Akifumi; Kobayashi, Toshio; and Yokoyama, Akira, 4,670,508, Cl. 525-64.000.

Sakamoto, Keiji; and Kobayashi, Toshio, 4,703,245, Cl. 318-809.000.

Sakamoto, Keiji; and Kobayashi, Toshio, 4,703,246, Cl. 318-809.000.

Suzuki, Migaku; Kobayashi, Toshio; and Imai, Shigeo, 4,665,597, Cl. 28-104.000.

Kobayashi, Toshiyuki: *See—*

Akiyama, Tsutomu; and Kobayashi, Toshiyuki, 4,673,836, Cl. 310-239.000.

Kobayashi, Toyohiko: *See—*

Tanaka, Kazumoto; Mashimo, Tohru; Sato, Osamu; and Kobayashi, Toyohiko, 4,639,868, Cl. 364-420.000.

Kobayashi, Toyohiro: *See—*

Taki, Hirokazu; Kobayashi, Toyohiro; Naito, Akihiko; and Morino, Yoshikazu, 4,654,798, Cl. 364-419.000.

Kobayashi, Tsuneo, to NEC Corporation. Distributed control type electronic switching system. 4,710,952, 12-1-87, Cl. 379-269.000.

Kobayashi, Tsutomu: *See—*

Uchimura, Kuniharu; Kobayashi, Tsutomu; Iwata, Atushi; Hayashi, Toshio; and Kumura, Tadakatsu, 4,704,600, Cl. 340-347.0AD.

Kobayashi, Waichi; Akegi, Seiji; and Iwata, Kazuhiro, to Ube Industries, Ltd. Process for producing an artificial light-weight aggregate. 4,701,222, 10-20-87, Cl. 106-288.00B.

Kobayashi, Waichi, to Ube Industries, Ltd. Hydraulic material composition. 4,705,569, 11-10-87, Cl. 106-85.000.

Kobayashi, Waichi; Usui, Koji; Hirosawa, Kozo; and Sadatani, Tetsuya, to Ube Industries, Ltd. Process for treating waste water containing phosphorus compounds and/or organic cod substances. 4,707,270, 11-17-87, Cl. 210-683.000.

Kobayashi, Wataru: *See—*

Maejima, Tsugio; Kobayashi, Wataru; Ashibe, Kenji; Tagaya, Nobuaki; and Sakurada, Satoshi, 4,664,775, Cl. 208-89.000.

Kobayashi, Yasunobu: *See—*

Katsuragi, Yasuhiro; Matsuda, Naoki; Saiga, Yoshiko; Kobayashi, Yasunobu; Nakamura, Masakazu; and Satoh, Toshio, 4,686,206, Cl. 514-27.000.

Kobayashi, Yasuo; Yoda, Michihiro; Goto, Hiromi; and Takeuchi, Yo, to Mitsubishi Aluminium Kabushiki Kaisha. Method of manufacturing aluminum alloy sheets excellent in hot formability. 4,699,673, 10-13-87, Cl. 148-11.50A.

Kobayashi, Yayoi: *See—*

Mine, Kiyomitsu; Kobayashi, Yayoi; Kawaguchi, Yasushi; and Inokuma, Hiroyuki, 4,698,280, Cl. 428-425.900.

Kobayashi, Yoshiaki: *See—*

Fujihisa, Hiroaki; Fujii, Hiroshi; Ohishi, Hirotoshi; and Kobayashi, Yoshiaki, 4,641,001, Cl. 200-153.00G.

Kobayashi, Yoshihito: *See—*

Sato, Hiroshi; and Kobayashi, Yoshihito, 4,715,501, Cl. 209-573.000.

Kobayashi, Yoshiki: *See—*

Fukushima, Tadashi; Kobayashi, Yoshiki; Okuyama, Yoshiyuki; Katoh, Takeshi; and Kashioka, Seiji, 4,665,556, Cl. 382-41.000.

Orita, Miyahiko; Kobayashi, Yoshiki; and Kubo, Yutaka, 4,658,429, Cl. 382-36.000.

Orita, Miyahiko; Kobayashi, Yoshiki; and Mishima, Tadaaki, 4,682,365, Cl. 382-14.000.

Kobayashi, Yoshimichi; and Hotta, Hisaharu, to Mitsubishi Chemical Industries Limited. Blocked polyisocyanurate. 4,696,991, 9-29-87, Cl. 528-45.000.

Kobayashi, Yoshinao: *See—*

Shinyagaito, Tatsuya; Kuramoto, Terumasa; Machida, Toyotaka; Saito, Kikuji; Shichijo, Shunichi; Yamagishi, Tooru; Kobayashi, Yoshinao; Ishii, Kazuyoshi; and Hirata, Atsumi, 4,695,904, Cl. 358-342.000.

Shinyagaito, Tatsuya; Kuramoto, Terumasa; Machida, Toyotaka; Saito, Kikuji; Shichijo, Shunichi; Yamagishi, Tooru; Ishii, Kazuyoshi; Kobayashi, Yoshinao; and Hirata, Atsumi, 4,707,733, Cl. 358-342.000.

Kobayashi, Yoshinobu: *See—*

Abe, Katsuhiro; Kobayashi, Yoshinobu; and Baba, Mitsushige, 4,684,684, Cl. 524-227.000.

Kobayashi, Yoshio, to Murata Manufacturing Co., Ltd. TM-mode dielectric resonance apparatus. 4,642,591, 2-10-87, Cl. 333-227.000.

Kobayashi, Yoshiro: *See—*

Osawa, Toshiaki; Kobayashi, Yoshiro; Asada, Makoto; and Higachi, Masahiro, 4,675,295, Cl. 435-172.200.

Kobayashi, Yoshiteru: *See—*

Matsuura, Junichi; Kobayashi, Yoshiteru; Kishiro, Osamu; and Inagaki, Yumiko, 4,662,905, Cl. 55-158.000.

Kobayashi, Yuichi: *See—*

Mochizuki, Manabu; Ikeda, Itsuo; Kurotori, Tsuneo; Shinguryo, Satoshi; Miyakawa, Seiichi; Kobayashi, Yuichi; Nonaka, Mitsuhiro; and Fukuda, Haruhiko, 4,669,859, Cl. 355-10.000.

Kobayashi, Yuji; and Takahashi, Norio, to Dai Nippon Insatsu Kabushiki Kaisha. Automatic range control method for an optical density/dot percentage measuring device. 4,673,807, 6-16-87, Cl. 250-214.0AG.

Kobayashi, Yukio: *See—*

Heeger, Alan J.; Yoshida, Haruo; Naito, Kazumi; and Kobayashi, Yukio, 4,657,694, Cl. 252-299.010.

Sugitani, Yuji; Kobayashi, Yukio; and Murayama, Masatoshi, 4,704,513, Cl. 219-125.120.

Kobayashi, Yuko: *See—*

Togino, Takayosi; Kobayashi, Yuko; and Yonekubo, Ken, 4,682,859, Cl. 350-414.000.

Kobayashi, Yutaka, to Kobayashi, Yutaka; and Marukoshi Co., Ltd. Plastic toy and method of manufacturing same. 4,657,519, 4-14-87, Cl. 446-376.000.

Kobayashi, Yutaka; and Suzuki, Takaya, to Hitachi, Ltd. Method of making devices in silicon, on insulator regrown by laser beam. 4,693,758, 9-15-87, Cl. 437-174.000.

Kobayashi, Yutaka: *See—*

Yamada, Kazuji; Kobayashi, Yutaka; Kawakami, Kanji; Shimada, Satoshi; Tanabe, Masanori; and Kobori, Shigeyuki, 4,670,969, Cl. 29-576.00E.

Kobayasi, Soichi, to Kabushiki Kaisha SK. Paved asphalt stripping and digging bucket apparatus. 4,635,386, 1-13-87, Cl. 37-117.500.

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Toyoda, Takashi; Akimoto, Akira; Yamanaka, Masaaki; and Kobayasi, Yonetarou, 4,663,216, Cl. 428-212.000.

Kobe, Joze; Gnidovec, Joze; and Zupet, Pavle, to KRKA, tovarna zdravil, n.sol.o. Process for preparing 9-(2-hydroxyethoxymethyl)-guanine, and intermediates useful in said process. 4,701,526, 10-20-87, Cl. 544-251.000.

Kobe Steel, Ltd.: *See—*

Kohama, Satoshi; Wakamiya, Yoshinori; and Tsuruda, Makoto, 4,657,507, Cl. 432-18.000.

Oliphant, Larry J., 4,658,970, Cl. 212-182.000.

Oliphant, Larry J., 4,674,638, Cl. 212-182.000.

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Tokuda, Ryuji; Harunari, Yoshihiro; and Kobe, Takashi, 4,701,048, Cl. 356-1.000.

Kobel, Hans; Sanglier, Jean-Jacques; Tscherter, Hans; and Bolliger, Georg, to Sandoz Ltd. Use of thio isosteres of ergot peptide alkaloids as vasaconstrictors. 4,681,880, 7-21-87, Cl. 514-250.000.

Kobel, Hans: *See—*

Wenger, Roland; Traber, Rene P.; Kobel, Hans; and Hofmann, Hans, 4,639,434, Cl. 514-11.000.

Kobelt, Jacob. Apparatus and method for load control of an engine. 4,669,264, 6-2-87, Cl. 60-388.000.

Kobelt, Jacob. Load sharing apparatus and method for multiple engines. 4,702,082, 10-27-87, Cl. 60-710.000.

Kober, Carl L.; and Procter-Gregg, H. David, to Denver Mineral Exploration Corp. Passive geophysical prospection system based upon the detection of the vertical electric field component of telluric currents and method therefor. 4,686,475, 8-11-87, Cl. 324-349.000.

Kober, Drago; and Martin, Erich, to Cryogas GmbH. Safety pressure relief. 4,669,493, 6-2-87, Cl. 137-73.000.

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Kober, Heinrich: *See—*

Brinkmeyer, Hermann; Hubler, Gerhard; Perrey, Hermann; Nippe, Burkhard; and Kober, Heinrich, 4,687,709, Cl. 428-425.900.

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Kobetsky, Robert G., to Illinois Tool Works Inc. Master gear error compensation. 4,704,799, 11-10-87, Cl. 33-179.50R.

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Swindall, William S.; Campbell, Brian R.; and Kobi, Donald H., 4,674,327, Cl. 73-146.000.

Kobiella, Robert J., to Signode Corporation. Method and apparatus for heat sealing strap in a strapping machine. 4,661,185, 4-28-87, Cl. 156-212.000.

Kobishi Electric Co., Ltd.: *See—*

Hayashi, Takatoshi, 4,664,055, Cl. 116-142.00R.

Shimoya, Shigeo; Iwasaki, Yutaka; Ishii, Tadashi; and Iwasaki, Hikoji, 4,692,741, Cl. 340-392.000.

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Kobler, Robert J., to AMP Incorporated. Annular connector seal. 4,637,674, 1-20-87, Cl. 339-94.00M.

Kobler, Robert J., to AMP Incorporated. Wire seal. 4,643,506, 2-17-87, Cl. 339-94.00M.

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Koblitz, Francis F.; and Snyder, Lynn K., to AMP Incorporated. Sealant composition. 4,714,801, 12-22-87, Cl. 174-88.00R.

Kobo, Kazuo; Morotomi, Noriaki; and Sato, Takeshi, to Matsushita Electric Industrial Co., Ltd. Digital data reproducing system. 4,673,979, 6-16-87, Cl. 358-142.000.

Kobo, Motonobu: *See—*

Masaoka, Yoshiji; and Kobo, Motonobu, 4,672,080, Cl. 522-46.000.

Kobold, Klaus. Control valve for automatically maintaining a constant fluid flow rate. 4,708,166, 11-24-87, Cl. 137-512.100.

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Bernath, Gabor; Kobor, Jene; Fulop, Ferenc; Ezer, Elemer; Hajos, Gyorgy; Palosi, Eva; Denes, Laszlo; and Szporny, Laszlo, 4,656,179, Cl. 514-307.000.

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Kobori, Kiyoshi: *See—*

Yasuda, Syoichi; Tokuno, Akihira; Futada, Akihiko; Hayashi, Yoshiharu; Kobori, Kiyoshi; and Ishida, Takayoshi, 4,700,220, Cl. 358-44.000.

Kobori, Shigeyuki: *See—*

Yamada, Kazuji; Kobayashi, Yutaka; Kawakami, Kanji; Shimada, Satoshi; Tanabe, Masanori; and Kobori, Shigeyuki, 4,670,969, Cl. 29-576.00E.

Kobori, Yasunori; Hanma, Kentaro; and Gotoh, Toshihiko, to Hitachi, Ltd. Video image printer for printing an image derived from a video signal. 4,703,366, 10-27-87, Cl. 358-335.000.

Kobori, Yasunori: *See—*

Gotoh, Toshihiko; Yoshida, Takahiko; and Kobori, Yasunori, 4,704,618, Cl. 346-76.0PH.

Ito, Takayasu; Nishijima, Hideo; Fukushima, Isao; Fujimori, Yoshio; and Kobori, Yasunori, 4,651,067, Cl. 318-254.000.

Kobori, Yoshihiro; and Takezono, Tetsuya, to Nippon Oil Company, Ltd. Process for preparing derivatives of naphthazarin. 4,650,885, 3-17-87, Cl. 549-498.000.

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Kobori, Yuzuru: *See—*

Kikuchi, Masahiro; Kobori, Yuzuru; and Murakami, Kanemitsu, 4,649,318, Cl. 313-449.000.

Kobos, Robert K.: *See—*

Abbott, Scot D.; Levin, Herman W.; Kobos, Robert K.; Kilkson, Henn; and Peterson, Dale R., 4,699,887, Cl. 436-70.000.

Koboshi, Shigeharu; and Higuchi, Moeko, to Konishiroku Photo Industry Co., Ltd. Color image forming method comprising processing with a bleach-fixing solution. 4,707,434, 11-17-87, Cl. 430-39[illegible].000.

Koboshi, Shigeharu: *See—*

Ishikawa, Masao; Koboshi, Shigeharu; and Kuse, Satoru, 4,687,731, Cl. 430-372.000.

Kobayashi, Kazuhiro; Koboshi, Shigeharu; Kuse, Satoru; Miyaoka, Kazuyoshi; and Kurematsu, Masayuki, 4,705,377, Cl. 354-322.000.

Kobayashi, Kazuhiro; Koboshi, Shigeharu; Kuse, Satoru; Miyaoka, Kazuyoshi; Kurematsu, Masayuki; and Uchida, Makoto, 4,705,379, Cl. 354-324.000.

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Tanaka, M.; Kobayashi, Kazuhiro; and Koboshi, Shigeharu, 4,702,998, Cl. 430-430.000.

Kobrehel, Michael D., to General Motors Corporation. Vehicle cable window regulator and slider guide assembly. 4,706,412, 11-17-87, Cl. 49-352.000.

Kobrehel, Michael D.: *See—*

Lam, Michael K.; Kazewych, Bohdan; and Kobrehel, Michael D., 4,672,771, Cl. 49-352.000.

Kobrinetz, Anthony: *See—*

Atkinson, Frederick G.; Kobrinetz, Anthony; and Menich, Barry J., 4,694,484, Cl. 379-59.000.

Kobs, Robert P.: *See—*

Callens, E. Eugene, Jr.; Crowson, Leslie L., Jr.; Kobs, Robert P.; Tull, Herbert G., III; and Tahtouh, Joseph F., 4,706,360, Cl. 29-407.000.

Kobuck, Richard M.; and Kalkbrenner, Ralph W., to Westinghouse Electric Corp. Grid assembly fixture, retention strap and method. 4,711,436, 12-8-87, Cl. 269-40.000.

Kobune, Masafumi: *See—*

Kawabe, Tadashi; and Kobune, Masafumi, 4,681,862, Cl. 501-108.000.

Kobylecki, Ryszard J.: *See—*

Campbell, Si[illegible] and Kobylecki, Ryszard J., 4,711,882, Cl. 514-228.000.

Kobylinski, Thaddeus P.; Kibby, Charles L.; Pannell, Richard B.; and Eddy, Elizabeth L. Activated cobalt catalyst and synthesis gas conversion using same. 4,670,414, 6-2-87, Cl. 502-174.000.

Kobyra, Walter B.: *See—*

D'Amelio, Frank D.; Maxfield, Michelle d.; Esposito, Dominick G.; and Kobyra, Walter B., 4,659,195, Cl. 350-574.000.

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Kocal, Joseph A.; and Imai, Tamotsu, to UOP Inc. Motor fuel alkylation process utilizing low acid. 4,634,801, 1-6-87, Cl. 585-724.000.

Kocal, Joseph A.; and Imai, Tamotsu, to UOP Inc. Novel motor fuel alkylation process. 4,677,245, 6-30-87, Cl. 585-724.000.

Kocal, Joseph A.: *See—*

Imai, Tamotsu; and Kocal, Joseph A., 4,636,488, Cl. 502-172.000.

Imai, Tamotsu; and Kocal, Joseph A., 4,665,271, Cl. 585-724.000.

Kocan, Kristin F.; and Simmons, George H., to AT&T Bell Laboratories. Data link extension for data communication networks. 4,651,316, 3-17-87, Cl. 370-85.000.

Kocanowski, Stephen: *See—*

Vaillancourt, Vincent L.; and Kocanowski, Stephen, 4,682,607, Cl. 128-772.000.

Kocell, Stephen B.: *See—*

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Koch, Alan A., to Alumax, Inc. Billet heating process. 4,712,413, 12-15-87, Cl. 72-361.000.

Koch, Albin G., to Heierling of Switzerland, Ltd. Ski boot with adjustable flex control. 4,653,205, 3-31-87, Cl. 36-117.000.

Koch, Alexander W. Disposable casting aid. 4,638,587, 1-27-87, Cl. 43-43.120.

- Koch, Alexander W. Fishing device with gravity activated diverter. 4,646,463, 3-3-87, Cl. 43-43.130.
- Koch, Carl, to Sinar AG Schaffhausen. Apparatus for handling light-sensitive photographic sheet material in ambient light. 4,678,302, 7-7-87, Cl. 354-107.000.
- Koch, Carl C.: *See—*
  - Liu, Chain T.; and Koch, Carl C., 4,711,761, Cl. 420-459.000.
- Koch, Charles P., to Adex, Inc. Modular display system. 4,6[illegible]2,946, 2-17-87, Cl. 52-38.000.
- Koch, Christian; and Erdlen, Erwin, to EVK Energietechnik Verfahrenstechnik Umwelttechnik, Firma. Catalyst for the burning and conversion of gases and higher hydrocarbons, and apparatus for the reduction of nitric oxides and afterburning of exhaust gas by means of such catalyst. 4,707,341, 11-17-87, Cl. 422-171.000.
- Koch, Christian. Diesel exhaust gas catalyst. 4,710,487, 12-1-87, Cl. 502-303.000.
- Koch, Earl E.; and Voler, Franja F., to New Holland Inc. Idler gear mounting for disc cutterbars. 4,693,061, 9-15-87, Cl. 56-13.600.
- Koch, Earl E.: *See—*
  - Voler, Franja F.; Hale, John K.; and Koch, Earl E., 4,653,253, Cl. 56-13.600.
- Koch Engineering Company, Inc.: *See—*
  - Allocca, Peter T., 4,643,584, Cl. 366-337.000.
- Koch, Frank J., to DeFelsko Corporation. Coin acceptor for vending machine. 4,705,153, 11-10-87, Cl. 194-277.000.
- Koch, Franz: *See—*
  - Bischoff, Hans-Georg; and Koch, Franz, 4,652,328, Cl. 156-285.000.
- Koch, Frederick W.; and Long, Jeffrey K., to Lubrizol Corporation, The. Esters of carboxy-containing interpolymers. 4,654,050, 3-31-87, Cl. 44-62.000.
- Koch, Frederick W.; and Pialet, Joseph W., to Lubrizol Corporation, The. Reaction product of polyalrylene-substituted polycarboxylic acid acylating agent, polyamine and sulfolene as a dispersant. 4,695,390, 9-22-87, Cl. 252-47.500.
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  - Russe, Meinhard W.; Bolze, Rudolf; and Koch, Friedhelm, 4,696,914, Cl. 514-19.000.
- Koch, Friedrich-Otto: *See—*
  - Gross, Heinz; Koch, Friedrich-Otto; Peeck, Adolf; and Wennemann, Werner, 4,688,319, Cl. 29-523.000.
- Koch, G. Teryl; Smith, Thomas L.; Jacklin, Keith A.; and Hammond, James A., to Colamco, Inc. Composite foam articles and method for fabricating such articles. 4,698,252, 10-6-87, Cl. 428-159.000.
- Koch, George A.: *See—*
  - Jarvis, Allan P., Jr.; Koch, George A.; and Abrams, Paul G., 4,680,174, Cl. 424-85.000.
- Koch, George R.; Krolak, Michael; and Biche, Michael R., to Flexible Manufacturing Systems, Inc. Self-contained mobile reprogrammable automation device. 4,698,775, 10-6-87, Cl. 364-478.000.
- Koch, Gerhard, to Ieperband N.V. Belt with flexible weft material. 4,660,605, 4-28-87, Cl. 139-420.00R.
- Koch, Gerhard, to Ieperband N.V. Stretchable belt and process for the production thereof. 4,662,487, 5-5-87, Cl. 188-371.000.
- Koch, Gerhard, to Hafele KG. Metal fitting part for a detachable connection between panels. 4,669,910, 6-2-87, Cl. 403-231.000.
- Koch, Hannsjorg: *See—*
  - Rohde, Wilhelm; Koch, Hannsjorg; and Metschl, Michael, 4,698,072, Cl. 55-31.000.
- Koch, Hans-Carl; and Datwyler, Peter, to Sinar AG Schaffhausen. Coupling device for frame-shaped accessories for camera equipment. 4,669,846, 6-2-87, Cl. 354-295.000.
- Koch, Hans-Georg: *See—*
  - Debus, Jurgen; Koch, Hans-Georg; Zachrei, Jurgen; and Butergerds, Helmut, 4,643,319, Cl. 211-189.000.
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- Koch, Hans W.; and Tanner, Colin R., to INA Bearing Company, Inc. Bearing race manufactured from preprofiled wire. 4,688,953, 8-25-87, Cl. 384-615.000.
- Koch, Harold O.: *See—*
  - Callahan, Wayne B.; Koch, Harold O.; Palin, Philip R.; and Cook, James R., 4,638,056, Cl. 536-54.000.
- Koch, Harry, to ANT Nachrichtentechnik GmbH. Method for establishing a connection with a mobile subscriber and system for implementing the method. 4,672,655, 6-9-87, Cl. 379-57.000.
- Koch, Hermann. Device for opening and closing vehicle doors. 4,703,585, 11-3-87, Cl. 49-223.000.
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  - Elster, Werner; Koch, Horst; Ost, Gustav; Simon, Werner; Deckelmann, Karl; and Taitl, Ino, 4,659,986, Cl. 324-158.00F.
- Koch, Hubert H.; and Sargeaunt, Edward F., to Motorola, Inc. Method and machine for providing alternator pole pieces. 4,635,351, 1-13-87, Cl. 29-598.000.
- Koch Industries, Inc.: *See—*
  - Komin, Andrew P., 4,680,056, Cl. 106-21.000.
- Koch, Jean. Ski pole hand shield. 4,657,282, 4-14-87, Cl. 280-821.000.
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- Koch, John W.; and Leighton, Sam R., to Orbital Engine Company Proprietary Ltd. Air supply system for fuel injection system. 4,674,462, 6-23-87, Cl. 123-533.000.
- Koch, Joseph J.; Koch, Richard N.; and Vandekerkhof, Peter H., to K & K Stamping. Radially resilient electrical socket. 4,657,335, 4-14-87, Cl. 339-256.00R.
- Koch, Joseph W. M.: *See—*
  - Schmidt, Gunther; and Koch, Joseph W. M., 4,687,438, Cl. 432-57.000.
- Koch, Jurgen: *See—*
  - Schmitz, Walter; and Koch, Jurgen, 4,680,074, Cl. 156-291.000.
- Koch, K. Peter: *See—*
  - Harding, Paul J.; and Koch, K. Peter, 4,667,732, Cl. 165-95.000.
- Koch, Karl C.; and Einolf, Charles W., Jr., to Westinghouse Electric Corp. Resistance to ground checker. 4,679,111, 7-7-87, Cl. 361-31.000.
- Koch, Klaus, to Siemens Aktiengesellschaft. Method and arrangement for the representation of a halftone image by use of a detection-adapted grid. 4,651,228, 3-17-87, Cl. 358-298.000.
- Koch, Magnus: *See—*
  - Mellander, Hugo; Nilsson, Stefan; Warner, Charles Y.; Wille, Milton G.; and Koch, Magnus, 4,691,556, Cl. 73-12.000.
- Koch, Mark B.: *See—*
  - Goorsky, Mark S.; Koch, Mark B.; and Murray, Richard C., Jr., 4,706,677, Cl. 128-634.000.
- Koch, Otto: *See—*
  - Seiter, Wolfgang; and Koch, Otto, 4,707,290, Cl. 252-140.000.
  - Wingler, Frank; Koch, Otto; Doering, Joachim; Ott, Karl-Heinz; and Liebig, Lothar, 4,639,473, Cl. 525-83.000.
- Koch, Paul; and von Kunszberg, Eberhard, to Faudi Feinbau GmbH. Water separator and filter for liquid hydrogens. 4,673,499, 6-16-87, Cl. 210-295.000.
- Koch, Paul E.: *See—*
  - Hartman, Robert A.; and Koch, Paul E., 4,663,829, Cl. 29-572.000.
- Koch Process Systems, Inc.: *See—*
  - O'Brien, John V.; Holmes, Arthur S.; and Hopewell, Richard B., 4,681,612, Cl. 62-23.000.
- Koch, Rainer; and Stockert, Rudiger, to Fischer MET GmbH. Device for bipolar high-frequency coagulation of biological tissue. 4,685,459, 8-11-87, Cl. 128-303.170.
- Koch, Richard N.: *See—*
  - Koch, Joseph J.; Koch, Richard N.; and Vandekerkhof, Peter H., 4,657,335, Cl. 339-256.00R.
- Koch, Robert: *See—*
  - Schmidt, Helmbrecht; Koch, Robert; and Seyer, Richard, 4,690,421, Cl. 280-403.000.
- Koch, Robert P.: *See—*
  - Billmayer, Charles E.; and Koch, Robert P., 4,668,196, Cl. 440-26.000.
- Koch, Ronald J.: *See—*
  - Berkes, John S.; Yourd, Raymond A., III; and Koch, Ronald J., 4,672,018, Cl. 430-124.000.
- Koch, Rudiger, to Kernforschungsanlage Julich Gesellschaft mit beschrankter Haftung. Process and arrangement for separating ceramic nuclear fuels from metallic casing or support members. 4,705,575, 11-10-87, Cl. 134-24.000.
- Koch, Rudolf: *See—*
  - Kohlstette, Werner; and Koch, Rudolf, 4,670,005, Cl. 494-40.000.
- Koch, Rudolf K.; and Affonso, Octavio F. Reversing valve construction and method of making the same. 4,658,851, 4-21-87, Cl. 137-15.000.
- Koch, Russell W., to Firestone Tire & Rubber Company, The. Elastomer free grid reinforcement of pressurable elastomer repaired articles. 4,696,332, 9-29-87, Cl. 152-367.000.
- Koch, Siegfried; Adams, Jurgen; and Goedecke, Wolf-Dieter, to Goedecke, Wolf-Dieter. Remote control device of a gear-box for motor vehicles with incorporated compressed-air system. 4,646,870, 3-3-87, Cl. 180-336.000.
- Koch, Steven R.; Stein, Charles R.; Hatfield, William T.; Shapiro, Neil R.; and Hughes, William C., to General Electric Company. Local area network bridge. 4,715,030, 12-22-87, Cl. 370-85.000.
- Koch, Steven R.: *See—*
  - Zinser, Richard L., Jr.; Silverstein, Seth D.; and Koch, Steven R., 4,649,505, Cl. 379-411.000.
- Koch, Thomas L.: *See—*
  - Duguay, Michel A.; Koch, Thomas L.; Kokubun, Yasuo; and Pfeiffer, Loren N., 4,715,672, Cl. 350-96.120.
- Koch, Ulrich H.: *See—*
  - Williams, Peter C.; Koch, Ulrich H.; and Francis, Timothy J., 4,671,308, Cl. 137-72.000.
- Koch, Volker: *See—*
  - Fehrenbach, Hubert; Koch, Volker; and Boese, Bernhard, 4,671,145, Cl. 82-1.00C.
- Koch, Walter: *See—*
  - Schmidt, Hans-Werner; Koch, Walter; Hirsch, Martin; Rosenthal, Karlheinz; and Yetmen, Yilmaz, 4,643,885, Cl. 423-119.000.
  - Schmidt, Hans-Werner; Koch, Walter; Hirsch, Martin; Rosenthal, Karlheinz; and Yetmen, Yilmaz, 4,663,132, Cl. 423-119.000.
- Koch, Walther: *See—*
  - Riesner, Gerhard; and Koch, Walther, 4,698,729, Cl. 361-386.000.
- Koch, Wilhelm H.: *See—*
  - Weidmann, Markus; Ott, Hans; and Koch, Wilhelm H., 4,645,350, Cl. 356-418.000.
- Koch, William R.: *See—*
  - Sircar, Shivaji; and Koch, William R., 4,690,696, Cl. 55-26.000.
- Kochan, Lee R., to Globe-Union Inc. Filter cleaning apparatus and method. 4,689,055, 8-25-87, Cl. 55-96.000.
- Kochanowski, Hans A.: *See—*
  - Absenger, Erich; and Kochanowski, Hans A., 4,658,791, Cl. 123-446.000.
- Kochanski, Ronald P.; and Schmidt, Detlef W., to Motorola, Inc. Device with captivate chip capacitor devices and method of making the same. 4,660,069, 4-21-87, Cl. 357-68.000.

- Kochendorfer, Heinrich: *See—*
  - Dressler, Helmut; Engenhart, Peter; Jahnel, Klaus; Kochendorfer, Heinrich; Kuhn, Ulrich; Matthias, Karl H.; and Schuster, Kurt, 4,635,173, Cl. 362-294.000.
- Kocher, Erich J.; and Szymaszek, Paul G., to Vilter Manufacturing Corporation. Method for operating dual slide valve rotary gas compressor. 4,704,069, 11-3-87, Cl. 417-53.000.
- Kocher, Robert C., to Raytheon Company. Fiber optic beam delivery system for high-power laser. 4,707,073, 11-17-87, Cl. 350-96.230.
- Kochesky, Francis F.: *See—*
  - Bernard, Edward G.; and Kochesky, Francis F., 4,658,755, Cl. 118-610.000.
- Kochi, Nobuo: *See—*
  - Nakamura, Shinichi; Tomoda, Hideo; and Kochi, Nobuo, 4,676,004, Cl. 33-507.000.
- Kochi, Takeshi; Iwaki, Akihiro; and Tajima, Masayoshi, to Stanley Electric Co., Ltd. Vehicle lamp having inner lens. 4,670,823, 6-2-87, Cl. 362-268.000.
- Koching, Horst; and Stude, Rolf-Rudiger, to Kreyenborg Verwaltungen und Beteiligungen KG. Apparatus for filtering plasticized materials in extruders. 4,701,118, 10-20-87, Cl. 425-185.000.
- Kochloefl, Karl: *See—*
  - Schneider, Michael; Kochloefl, Karl; Maletz, Gerd; and Wernicke, Hans J., 4,692,425, Cl. 502-81.000.
- Kochs Adler AG: *See—*
  - Hampel, Klaus; and Goldbecker, Wilfried, 4,643,114, Cl. 112-199.000.
  - Hampel, Klaus; and Goldbecker, Wilfried, 4,674,425, Cl. 112-288.000.
  - Junemann, Hubert, 4,643,115, Cl. 112-121.220.
  - Junemann, Hubert, 4,685,407, Cl. 112-262.200.
  - Junemann, Hubert, 4,691,651, Cl. 112-259.000.
  - Keilmann, Werner; Scholl, Hans; and Raupach, Gunter, 4,658,752, Cl. 112-262.100.
  - Landwehr, Gunter; and Meyer, Horst, 4,664,045, Cl. 112-153.000.
  - Scholl, Hans, 4,662,294, Cl. 112-305.000.
  - Scholl, Hans; Thiele, Horst; and Hagemann, Eckhard, 4,696,242, Cl. 112-121.140.
  - Schrudde, Reinhold; Lohe, Rainer; and Hampel, Klaus, 4,643,113, Cl. 112-199.000.
  - Vogt, Siegfried; and Schulze, Wolfram, 4,706,586, Cl. 112-121.290.
- Kochsiek Maschinenbau GmbH Soltau: *See—*
  - Hollmann, Bernd, 4,634,414, Cl. 493-213.000.
- Kochte, Werner W.: *See—*
  - Prahl, Joseph M.; and Kochte, Werner W., 4,682,384, Cl. 15-344.000.
- Koci, Zdenek, to Ciba-Geigy Corporation. Solutions of anionic dyes with alkylene glycol mono-alkyl ethers. 4,648,884, 3-10-87, Cl. 8-527.000.
- Kocin, Michael J.: *See—*
  - Damerow, Milton F.; and Kocin, Michael J., 4,689,721, Cl. 361-388.000.
- Kociolek, Kenneth W.: *See—*
  - Kadlec, Joseph; and Kociolek, Kenneth W., 4,698,681, Cl. 358-168.000.
- Kocis, Petr: *See—*
  - Kasafirek, Evzen; Cerny, Martin; Kocis, Petr; Krepelka, Jiri; and Rovensky, Jozef, 4,711,952, Cl. 530-327.000.
- Kocjan, Andrew J.: *See—*
  - Beck, Lawrence R.; Kocjan, Andrew J.; Natoli, Richard A.; and Liguore, Louis J., 4,684,765, Cl. 174-68.500.
- Kock, Ronald W.: *See—*
  - Goodman, William H., Jr.; Harm, Alson R.; Kock, Ronald W.; and Reiboldt, Howard N., 4,664,248, Cl. 198-394.000.
- Kock, Wulf, to Dornier System GmbH. Electrically conductive ceramic material. 4,645,622, 2-24-87, Cl. 252-521.000.
- Kockelmans, Henricus G. J. M.: *See—*
  - Huntjens, Joseph M. J. E.; Kockelmans, Henricus G. J. M.; and Pleyers, Jozef J. A., 4,705,388, Cl. 355-15.000.
- Kocks Technik GmbH & Co.: *See—*
  - Holthoff, Helmut, 4,666,317, Cl. 384-447.000.
- Kocmond, Warren C., Jr.: *See—*
  - Pasinski, Ralph R.; Ayers, Sammy L., Jr.; and Kocmond, Warren C., Jr., 4,707,855, Cl. 379-376.000.
- Kocourek, Peter C. Beach building block. 4,708,521, 11-24-87, Cl. 405-31.000.
- Kocsis, Andre, to Halcyon Waterbed Inc. Polypropylene fiber baffle for waterbed mattress. 4,672,701, 6-16-87, Cl. 5-450.000.
- Kocsis, Deborah L., to Dow Chemical Company, The. Method for controlling the flow of liquids through a subterranean formation. 4,712,617, 12-15-87, Cl. 166-270.000.
- Kocsis nee Bagi, Maria: *See—*
  - Gorog nee Privitzer, Katalin; Bodnar, Laszlo; Dudar, Erzsebet; Kocsis nee Bagi, Maria; Gaal, Sandor; Tasnadi, Marta; Egyhazi nee Csizmadia, Eva; Varga, Valeria M.; Kajati, Istvan; Kis, Gyorgy; Molnar, Janos; Toth, Bertalan; Cserhati nee Botka, Ilona; Kaptas, Tibor; and Csete, Sandor, 4,661,477, Cl. 514-76.000.
  - Gorog nee Privitzer, Katalin; Bodnar, Laszlo; Dudar, Erzsebet; Kocsis nee Bagi, Maria; Gaal, Sandor; Tasnadi, Marta; Egyhazi nee Csizmadia, Eva; Varga, Valeria M.; Kajati, Istvan; Kis, Gyorgy; Molnar, Janos; Toth, Bertalan; Cserhati nee Botka, Ilona; Kaptas, Tibor; and Csete, Sandor, 4,675,431, Cl. 558-218.000.
- Kocso, Illes: *See—*
  - Kasza, Tibor; Kakonyi, Gyula; Kocso, Illes; Buzas, Attila; and Radvanyi, Laszlo, 4,682,137, Cl. 335-284.000.
- Koczarski, Jack B., to United Technologies Corporation. Adjustable dual drill assembly. 4,678,378, 7-7-87, Cl. 408-46.000.
- Koda, Akihide; Hori, Mikio; Yasumoto, Mitsugi; Matsuura, Naosuke; Yamawaki, Ichiro; and Tada, Yukio, to Taiho Pharmaceutical Company, Limited. Amide compounds. 4,670,583, 6-2-87, Cl. 562-426.000.
- Koda, Akinori: *See—*
  - Yamashita, Mitsuo; and Koda, Akinori, 4,698,948, Cl. 52-410.000.
- Koda, Akio: *See—*
  - Shibanuma, Tadao; Nagano, Noriaki; Hara, Ryuichiro; Nakano, Kohji; Koda, Akio; Yamazaki, Atsuki; and Murakami, Yukiyasu, 4,690,921, Cl. 514-205.000.
  - Shibanuma, Tadao; Nakano, Kohji; Nagano, Noriaki; Murakami, Yukiyasu; Hara, Ryuichiro; Koda, Akio; and Yamazaki, Atsuki, 4,699,980, Cl. 540-224.000.
- Koda, Haruyuki: *See—*
  - Mineshima, Hideo; Koda, Haruyuki; and Yamamoto, Ryoichi, 4,692,501, Cl. 526-65.000.
- Koda, Kazuo; and Etoh, Jun, to Victor Company of Japan, Ltd. Reel brake and associated tension arm control device for a reversible tape recording and/or reproducing apparatus. 4,635,146, 1-6-87, Cl. 360-85.000.
- Koda, Nobuo J.; Bleha, William P., Jr.; Giehll, Harry W.; Reinsch, Stephen J.; and Robusto, Paul F., to Hughes Aircraft Company. Liquid crystal light value color projector. 4,650,286, 3-17-87, Cl. 350-331.00R.
- Koda, Takao; Ichii, Hirokazu; and Komatuzaki, Hiroshi, to Fuji Photo Film Co., Ltd. Camera back lid opening apparatus. 4,697,903, 10-6-87, Cl. 354-288.000.
- Koda, Toshihide; Honda, Tetsuya; Taketoh, Kiyoshi; and Yoshida, Tadahiro, to Mitsubishi Denki Kabushiki Kaisha. Stirling engine. 4,667,474, 5-26-87, Cl. 60-517.000.
- Kodai, Syojiro; Fujii, Noriaki; Gamo, Hiroshi; and Kobayashi, Bujirou, to Mitsubishi Denki Kabushiki Kaisha. IC card. 4,695,925, 9-22-87, Cl. 361-395.000.
- Kodaira, Kazuhiko: *See—*
  - Noishiki, Yasuharu; Kodaira, Kazuhiko; Furuse, Masayasu; Miyata, Teruo; Miyamoto, Takeaki; and Ito, Hiraku, 4,690,973, Cl. 525-54.100.
- Kodaira, Takanori; Egawa, Akira; and Namai, Akihiro, to Canon Kabushiki Kaisha. Camera with electromagnetically driven lens barrel. 4,671,639, 6-9-87, Cl. 354-400.000.
- Kodaira, Takanori, to Canon Kabushiki Kaisha. Camera. 4,681,418, 7-21-87, Cl. 354-288.000.
- Kodaira, Takanori; Namai, Akihiro; and Egawa, Akira, to Canon Kabushiki Kaisha. Photographic optical system drive device for camera. 4,684,233, 8-4-87, Cl. 354-400.000.
- Kodaira, Takanori; and Egawa, Akira, to Canon Kabushiki Kaisha. Shutter control apparatus for use in variable focal length camera. 4,708,454, 11-24-87, Cl. 354-422.000.
- Kodaira, Takanori: *See—*
  - Namai, Akihiro; Egawa, Akira; and Kodaira, Takanori, 4,653,892, Cl. 354-400.000.
  - Namai, Akihiro; Egawa, Akira; and Kodaira, Takanori, 4,710,010, Cl. 354-400.000.
- Kodaira, Toshimasa: *See—*
  - Kitamura, Yoichi; Hotta, Hisashi; and Kodaira, Toshimasa, 4,701,354, Cl. 427-255.600.
- Kodaka, Fujio: *See—*
  - Saito, Kaneo; Kodaka, Fujio; and Tsurumaki, Kazuyoshi, 4,653,891, Cl. 354-304.000.
- Kodaka, Kenji: *See—*
  - Nakatani, Kiyoshi; Numata, Satoshi; Kodaka, Kenji; Oda, Kengo; Shiraishi, Shiro; and Udagawa, Takatoshi, 4,661,501, Cl. 514-345.000.
- Kodaka, Yoshiro: *See—*
  - Naito, Hideshi; Kodaka, Yoshiro; and Shiokama, Yoshiharu, 4,681,406, Cl. 350-429.000.
- Kodama, Eiji: *See—*
  - Hohki, Tetsuo; Sano, Tetsuo; Kodama, Eiji; and Tsujinaka, Hisayuki, 4,682,040, Cl. 250-571.000.
- Kodama, Hisashi, to Aisin Seiki Kabushiki Kaisha. Hydraulic valve lifter. 4,635,593, 1-13-87, Cl. 123-90.550.
- Kodama, Hisashi; and Okabe, Yoshio, to Aisin Seiki Kabushiki Kaisha. Automatic tensioner having locking mechanism. 4,695,268, 9-22-87, Cl. 474-110.000.
- Kodama, Hisashi; and Okabe, Yoshio, to Aisin Seiki Kabushiki Kaisha, and Toyota Jidosha Kabushiki Kaisha. Auto-tensioner for belt systems and a method for adjusting tension degree. 4,713,045, 12-15-87, Cl. 474-135.000.
- Kodama, Hitoshi: *See—*
  - Imao, Shoji; Nakamoto, Hideo; Osaka, Norihisa; Takesue, Masatoshi; Kodama, Hitoshi; Suzuki, Kinuko; and Inomoto, Masataka, deceased, 4,704,328, Cl. 428-324.000.
  - Takemae, Shigeru; Takada, Yasuo; Tokuda, Shuichiro; Furukawa, Noriyuki; and Kodama, Hitoshi, 4,663,927, Cl. 57-6.000.
  - Yoshizawa, Kenji; Komura, Hirotsugu; Kodama, Hitoshi; Ohnuki, Kazushi; Shoda, Isao; Magome, Kazuo; and Ito, Hiroshi, 4,673,846, Cl. 315-248.000.
- Kodama, Jiro: *See—*
  - Asai, Koichi; Tsuda, Mamoru; and Kodama, Jiro, 4,649,635, Cl. 29-759.000.
  - Asai, Koichi; Tsuda, Mamoru; and Kodama, Jiro, 4,660,280, Cl. 29-759.000.

Kodama, Katsuhiko; and Yamazoe, Hisamitsu, to Nippondenso Co., Ltd. Engine control with exhaust gas recirculation. 4,640,257, 2-3-87, Cl. 123-571.000.

Kodama, Kazuo; and Morikawa, Keishi, to Kabushiki Kaisha Komatsu Seisakusho. Crankshaft milling machine. 4,679,973, 7-14-87, Cl. 409-200.000.

Kodama, Kenichi; Tanimoto, Akikazu; Izawa, Hisao; Hamashima, Yoichi; and Hazama, Junji, to Nippon Kogaku K. K. Small gap measuring apparatus. 4,685,805, 8-11-87, Cl. 356-373.000.

Kodama, Masahiro; Sakae, Tatsuya; and Urano, Yoshio, to Daikin Industries, Ltd. High speed memory access circuit of CRT display unit. 4,695,967, 9-22-87, Cl. 364-521.000.

Kodama, Masahiro: *See*—

Nagashima, Sumio; Suzuki, Etsuji; Chiyoda, Kiyomu; and Kodama, Masahiro, 4,644,584, Cl. 382-34.000.

Kodama, Masanori: *See*—

Mizota, Hisakazu; Kojima, Shinji; Kodama, Masanori; and Miyazaki, Yasuharu, 4,649,985, Cl. 164-468.000.

Kodama, Masashi; Tani, Toru; Hanazawa, Kazuyoshi; Oka, Totaro; Teramoto, Kazuo; and Nishiumi, Shiro, to Toray Industries, Inc. Endotoxin detoxifying process. 4,661,260, 4-28-87, Cl. 210-679.000.

Kodama, Masayuki; and Ohgami, Masaaki, to Fuji Jukogyo Kabushiki Kaisha. Four-wheel drive vehicle. 4,664,216, 5-12-87, Cl. 180-233.000.

Kodama, Mikio; and Ito, Akitoshi, to Sumitomo Naugatuck Co., Ltd. Thermoplastic resin composition. 4,657,975, 4-14-87, Cl. 525-74.000.

Kodama, Mikio; Ito, Akitoshi; Yano, Motoichi; Fujiwara, Takayoshi; and Umeyama, Satoshi, to Sumitomo Naugatuck Co., Ltd. Resin composition comprising unsaturated dicarboxylic acid anhydride polymer, polycarbonate resin and modified olefin polymer. 4,705,827, 11-10-87, Cl. 525-67.000.

Kodama, Mitsuo; Miyake, Masaya; Nakano, Minol; Asai, Tsuyoshi; and Hara, Akio, to Sumitomo Electric Industries, Ltd. Hard alloy containing molybdenum. 4,639,352, 1-27-87, Cl. 419-15.000.

Kodama, Nobumi: *See*—

Nakano, Masao; Takemae, Yoshihiro; Sato, Kimiaki; and Kodama, Nobumi, 4,704,706, Cl. 365-203.000.

Nakano, Masao; Takemae, Yoshihiro; Nakano, Tomio; Nozaki, Shigeki; Sato, Kimiaki; and Kodama, Nobumi, 4,716,549, Cl. 365-203.000.

Kodama, Roy K.; and Koneval, Donald J., to Gould, Inc. Disposable physiological pressure sensing system. 4,683,894, 8-4-87, Cl. 128-675.000.

Kodama, Ryozo: *See*—

Tanaka, Yoshihiro; and Kodama, Ryozo, 4,674,362, Cl. 74-833.000.

Kodama, Satoru: *See*—

Hirai, Kazumi; Akiyoshi, Mitsuo; Nakano, Chikao; Watanabe, Kenji; and Kodama, Satoru, 4,673,800, Cl. 219-518.000.

Kodama, Shun-ichi: *See*—

Yamabe, Masaaki; Kodama, Shun-ichi; and Kojima, Gen, 4,654,394, Cl. 526-247.000.

Kodama, Susumu: *See*—

Fukazawa, Ryutaro; Kodama, Susumu; and Sato, Mieko, 4,675,395, Cl. 536-103.000.

Kodama, Tadasi: *See*—

Isobe, Minoru; Imai, Shuichi; Hiroki, Toru; Kodama, Tadasi; and Ohara, Waturu, 4,688,955, Cl. 400-248.000.

Kodama, Takuma; Takahashi, Kenji; Ishibashi, Shizuka; Kudo, Koji; Masuda, Yukihiro; Hombough, Masanori; Miyoshi, Osamu; and Yoshiwara, Kazuhisa, to Hitachi, Ltd.; Hitachi Denshi Kabushiki Kaisha; and Hitachi Video Engineering Incorporated. Circuit for generating a signal for correcting registration in a color television camera with reduction in generation of shading. 4,649,421, 3-10-87, Cl. 358-51.000.

Kodama, Takuma: *See*—

Masuda, Yukihiro; Ishibashi, Shizuka; Takahashi, Kenji; Kodama, Takuma; Kudo, Koji; and Hombough, Masanori, 4,647,822, Cl. 315-386.000.

Kodama, Tetsuji: *See*—

Naito, Akira; Kodama, Tetsuji; Tsuruse, Hideki; and Tsutsumi, Hironobu, 4,645,993, Cl. 318-568.000.

Kodama, Tetsuzi: *See*—

Naito, Akira; Kodama, Tetsuzi; Tsuruse, Hideki; Tsutsumi, Hironobu; and Ushio, Hiroshi, 4,646,354, Cl. 382-28.000.

Kodama, Toshikatsu: *See*—

Hirota, Yuichi; Kodama, Toshikatsu; Akasaka, Hideya; and Takeuchi, Yasuhito, 4,674,516, Cl. 128-660.000.

Kodama, Yoshimi; Urakami, Toyozo; and Takao, Osamu, to Sanyo Electric Co., Ltd. Magnetic tape loading and feeding apparatus. 4,656,540, 4-7-87, Cl. 360-85.000.

Kodama, Yoshimi, to Sanyo Electric Co., Ltd. Reel base driving mechanism. 4,663,681, 5-5-87, Cl. 360-96.300.

Kodama, Yutaka, to Ricoh Company, Ltd. Selective sheet loading apparatus. 4,635,920, 1-13-87, Cl. 271-81.000.

Kodama, Yutaka: *See*—

Ikeda, Kunihiko; Suzuki, Shigeru; Yokota, Takashi; Shimura, Akira; Kodama, Yutaka; Yamazaki, Shigeru; Niro, Masaichi; and Tomita, Satoru, 4,657,372, Cl. 355-3.00R.

Kodani, Hideyuki: *See*—

Enokido, Shunji; Kodani, Hideyuki; and Ohta, Hajime, 4,670,751, Cl. 340-706.000.

Kodatsky, William K.: *See*—

Hacetoglu, Ararat; Kodatsky, William K.; and Gonzales, Ray O., Jr., 4,645,130, Cl. 241-16.000.

Koden, Mitsuhiro: *See*—

Kishi, Kohhei; Koden, Mitsuhiro; and Funada, Fumiaki, 4,684,435, Cl. 156-632.000.

Koder, Robert: *See*—

Brenner, Rolf; Jose, Horst-Udo; Jung, Gerd; and Koder, Robert, 4,650,680, Cl. 429-129.000.

Kodera, Hiroyuki: *See*—

Sakata, Yoshitsugu; Miyashita, Yoshibonu; Hamanaka, Tadashi; Kodera, Hiroyuki; Miki, Yutaka; Yamanishi, Kazuhiko; and Hanada, Toshiro, 4,695,539, Cl. 435-10.000.

Kodera, Kaoru: *See*—

Aoki, Hisashi; Kodera, Kaoru; and Okugawa, Tetsuo, 4,668,050, Cl. 350-349.000.

Kodera, Masanori; Aizawa, Yasuo; and Ichijo, Kohji, to Niigata Engineering Co., Ltd. System for controlling rotation of rotary mechanism in Z-type propulsion apparatus. 4,636,701, 1-13-87, Cl. 318-635.000.

Kodera, Masao; and Sasaki, Kunihiko, to Nippon Soken, Inc. Rear monitor system triggered by occupant leaving the vehicle. 4,667,195, 5-19-87, Cl. 340-901.000.

Kodera, Masao: *See*—

Sasaki, Kunihiko; Kodera, Masao; and Kuno, Akira, 4,694,296, Cl. 340-904.000.

Sasaki, Kunihiko; Kodera, Masao; Huzino, Seizi; and Tanaka, Takeshi, 4,700,127, Cl. 324-58.50C.

Toyama, Keiichiro; Kodera, Masao; and Sasaki, Kunihiko, 4,636,997, Cl. 367-140.000.

Kodera, Tamotsu: *See*—

Uno, Kunihiko; Tamade, Yoshinori; Horino, Seiya; and Kodera, Tamotsu, 4,712,741, Cl. 241-16.000.

Kodera, Yoshie: *See*—

Ishigaki, Masaji; Ohishi, Tetsu; Tokusyuku, Nobuhiro; Kodera, Yoshie; and Fukui, Yukio, 4,645,712, Cl. 428-433.000.

Koe, Joe K.: *See*—

Jacoby, Herbert; Doane, John C.; and Koe, Joe K., 4,647,921, Cl. 340-716.000.

Koebisu, Mamoru; Nishioka, Takeshi; Kamijyukkoku, Nario; and Kawano, Hirosi, to Toray Industries, Inc. Expandable polyvinyl chloride resin composition and foamed sheet prepared from the same. 4,663,362, 5-5-87, Cl. 521-134.000.

Koebisu, Mamoru; Nishioka, Takeshi; Kamijyukkoku, Nario; and Kawano, Hirosi, to Toray Industries, Inc. Expandable polyvinyl chloride resin composition and foamed sheet prepared from the same. 4,701,472, 10-20-87, Cl. 521-50.500.

Koeda, Kenji: *See*—

Yoshida, Shigeru; and Koeda, Kenji, 4,658,796, Cl. 123-519.000.

Koehler, David J.; and Koehler, Mark G. Wood track suspension ceiling system. 4,674,254, 6-23-87, Cl. 52-484.000.

Koehler, Dennis L.: *See*—

Abraham, Robert S.; and Koehler, Dennis L., 4,669,704, Cl. 254-100.000.

Koehler, Gerard, to La Telemecanique Electrique. Direct current electromagnet having a movement of translation. 4,692,729, 9-8-87, Cl. 335-259.000.

Koehler, Gernot: *See*—

Naarmann, Herbert; Koehler, Gernot; and Schlag, Johannes, 4,640,749, Cl. 204-59.00R.

Koehler, Heinrich P.; and Dixon, John R., to Black & Decker Inc. Family of electric drills and two-speed gear box therefor. 4,710,071, 12-1-87, Cl. 408-133.000.

Koehler, Howard A.: *See*—

Hamstra, James R.; Koehler, Howard A.; Rusterholz, John T.; and Tanglin, David J., 4,706,191, Cl. 364-200.000.

Koehler, Mark G.: *See*—

Koehler, David J.; and Koehler, Mark G., 4,674,254, Cl. 52-484.000.

Koehler, Randal W., to Eaton Corporation. Temperature limiting control. 4,698,612, 10-6-87, Cl. 337-320.000.

Koehler, Steven A.: *See*—

Christner, Larry G.; and Koehler, Steven A., 4,716,023, Cl. 422-149.000.

Koehler, Waldemar: *See*—

Oehsen, Ubbo v.; Stecher, Karlheinz; Koehler, Waldemar; Mueller, Berthold; Brunnmueller, Fritz; and Schneider, Rolf, 4,693,877, Cl. 423-373.000.

Koehly, Gerard; and Madic, Charles, to Commissariat a l'Energie Atomique. Process for the recovery of molybdenum-99 from an irradiated uranium alloy target. 4,701,308, 10-20-87, Cl. 423-2.000.

Koehn, Hilde R.: *See*—

Garlen, David; Koehn, Hilde R.; Koehn, Peter W.; and McColl, J. D., 4,707,354, Cl. 424-47.000.

Koehn, Peter W.: *See*—

Garlen, David; Koehn, Hilde R.; Koehn, Peter W.; and McColl, J. D., 4,707,354, Cl. 424-47.000.

Koehn, Richard R.: *See*—

Hanson, David W.; Koehn, Richard R.; Nash, Richard C.; and Fox, Lonnie G., 4,644,727, Cl. 52-687.000.

Koei Chemical Co., Ltd.: *See*—

Yamaji, Mitsuharu, 4,658,032, Cl. 546-349.000.

Koek, Kevin C.; Matthias, William T.; and Barton, James T., to Eastman Kodak Company. Mount for imaging lens array on optical print head. 4,715,682, 12-29-87, Cl. 350-253.000.

Koek, Kevin C.: *See*—

LaBudde, Brian R.; and Koek, Kevin C., 4,709,972, Cl. 312-208.000.

Koelewijn, Rob, to GTE Valeron Corporation. End mill cutting tool and indexable insert therefor. 4,681,485, 7-21-87, Cl. 407-42.000.

Koeling, Thijs; Lehr, Bernd C.; and Broekhuizen, Willem, to Shell Oil Company. Method and means for determining the subsurface position of a blowing well with respect to a relief well. 4,711,303, 12-8-87, Cl. 166-250.000.

Koeller, Walter, to Mannesmann Aktiengesellschaft. Cooling device for a multistage compressor. 4,685,509, 8-11-87, Cl. 165-47.000.

Koelling, Alan L.; Murphy, William J.; and Mayer, Edward F., to Ricoh Systems, Inc. Gradient layer panchromatic photoreceptor. 4,710,442, 12-1-87, Cl. 430-85.000.

Koelling, Robert K., Sr., to Morgan Construction Company. Split yoke universal joint. 4,637,807, 1-20-87, Cl. 464-135.000.

Koelmel, Donald F.; Jamiolkowski, Dennis D.; Shalaby, Shalaby W.; and Bezwada, Rao S., to Ethicon, Inc. Poly(p-dioxanone) polymers having improved radiation resistance. 4,649,921, 3-17-87, Cl. 128-335.500.

Koelsch, Peter M.; and Vikesland, John P., to Minnesota Mining and Manufacturing Company. Multilayer dry-film positive-acting o-quinone diazide photoresist with integral laminable layer, photoresist layer, and strippable carrier layer. 4,672,020, 6-9-87, Cl. 430-166.000.

Koen, Myron J., to Burr-Brown Corporation. High gain, low drift operational amplifier for sample and hold circuit. 4,634,993, 1-6-87, Cl. 330-253.000.

Koen, Myron J., to Burr-Brown Corporation. Subranging analog-to-digital converter with FET isolation circuit between subtraction node and LSB encoder. 4,686,511, 8-11-87, Cl. 340-347.0AD.

Koen, Myron J.: *See—*
  Halbert, Joel M.; and Koen, Myron J., 4,641,246, Cl. 364-487.000.

Koenck, Steven E.; and Hacker, David C., to Norand Corporation. Battery powered system. 4,709,202, 11-24-87, Cl. 320-43.000.

Koeneke, Conrad J.; Lepselter, Martin P.; and Lynch, William T., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Schottky-barrier MOS devices. 4,665,414, 5-12-87, Cl. 357-15.000.

Koeneman, James B., to Harrington Arthritis Research Center. Joint prosthesis. 4,655,778, 4-7-87, Cl. 623-21.000.

Koenig, Andre: *See—*
  Marchal, Philippe; and Koenig, Andre, 4,676,722, Cl. 416-188.000.

Koenig & Bauer Aktiengesellschaft: *See—*
  Bolza-Schunemann, Claus A., 4,680,806, Cl. 382-65.000.
  Michalik, Horst B., 4,648,586, Cl. 270-50.000.
  Wieland, Erich G., 4,682,542, Cl. 101-148.000.

Koenig, Dean B. Aquatic ride. 4,681,550, 7-21-87, Cl. 440-40.000.

Koenig, Herbert, to Messerschmitt-Bolkow-Blohm GmbH. Method and apparatus for stabilizing the steering force in an aircraft, especially a helicopter. 4,664,346, 5-12-87, Cl. 244-223.000.

Koenig, Heribert; and Stark, Heinz, to Mannesmann Aktiengesellschaft. Current feed for an electrode of an electric smelting furnace. 4,653,067, 3-24-87, Cl. 373-101.000.

Koenig, Horst: *See—*
  Janssen, Bernd; Koenig, Horst; and Scharwaechter, Peter, 4,663,338, Cl. 514-383.000.
  Rossy, Phillip A.; Thyes, Marco; Franke, Albrecht; Koenig, Horst; Lehmann, Hans Dieter; Gries, Josef; Friedrich, Ludwig; and Lenke, Dieter, 4,636,504, Cl. 514-252.000.

Koenig, Inc.: *See—*
  Koenig, Richard F.; Klopfenstein, Albert; and Sockwell, C. Leon, 4,653,796, Cl. 296-35.100.

Koenig, Jean-Jacques: *See—*
  Jarreau, Francois-Xavier; and Koenig, Jean-Jacques, 4,716,171, Cl. 514-305.000.

Koenig, Karlheinz; Kohl, Lambert; Witz, Ruediger; and Roeger, Bernd, to BASF Aktiengesellschaft. Apparatus for positioning objects of low mass, in particular magnetic heads. 4,672,491, 6-9-87, Cl. 360-106.000.

Koenig, Kenneth G.: *See—*
  Goodman, William R.; and Koenig, Kenneth G., 4,651,323, Cl. 371-60.000.

Koenig, Linda S. Restraining garment with detachable bib. 4,639,946, 2-3-87, Cl. 2-49.00R.

Koenig, Mark J.: *See—*
  Kaiser, Willard D.; Koenig, Mark J.; and LeBlanc, William K., 4,633,702, Cl. 73-9.000.

Koenig, Raymond; Urscheler, Robert; and Klein, Dieter H., to Dow Chemical Company, The. Epoxy resin composition and process for preparing laminates therefrom. 4,661,568, 4-28-87, Cl. 525-510.000.

Koenig, Raymond: *See—*
  Klein, Dieter H.; and Koenig, Raymond, 4,698,401, Cl. 525-489.000.

Koenig, Richard F.; Klopfenstein, Albert; and Sockwell, C. Leon, to Koenig, Inc. Spring mount for vehicle bodies. 4,653,796, 3-31-87, Cl. 296-35.100.

Koenig, Robert G., to Cleveland Machine Controls, Inc. Web tension transducer apparatus. 4,674,341, 6-23-87, Cl. 73-862.480.

Koeniger, Martin, to Hermann Koeniger, Firma. Device for growing plants at an abnormal growth rate in a container. 4,697,382, 10-6-87, Cl. 47-66.000.

Koening, James P.; Knight, David J.; Szudy, James E.; Bartholomew, Roy E.; and Wurst, William R., to Allied Corporation. Air dryer purge control for turbocharged compressors. 4,714,483, 12-22-87, Cl. 55-163.000.

Koepke, Gunther; Frenken, Hans; and Friedsam, Josef, to Agfa Gevaert Aktiengesellschaft. Process and apparatus for microwave melting solidified gel masses, in particular of photographic emulsions. 4,673,782, 6-16-87, Cl. 219-10.55M.

Koepke, Richard A.: *See—*
  Ahearn, John E.; Frates, Raymond A.; Girard, Dennis; Koepke, Richard A.; Schmidt, James K.; and Manon, C. Dodd, 4,716,082, Cl. 428-428.000.

Koeplin-Gall, Sandra; and Schild, Ronald H., to Nalco Chemical Company. Asiatic clam control chemical. 4,643,835, 2-17-87, Cl. 210-754.000.

Koeppelmann, Edgar: *See—*
  Schindler, Norbert; Nuesslein, Hans; Koeppelmann, Edgar; and Poethkow, Joerg, 4,704,212, Cl. 252-8.800.

Koermer, Gerald S.; Gutierrez, Eddie N.; and Prorok, Maryfrances, to Lever Brothers Company. Synthesis of salicylamides with improved reaction kinetics and improved effective yields. 4,701,527, 10-20-87, Cl. 544-277.000.

Koerner, Andre F. Sound engine. 4,642,611, 2-10-87, Cl. 340-385.000.

Koerner, Dennis W.: *See—*
  Chen, Jiann-Yuh; and Koerner, Dennis W., 4,670,272, Cl. 426-94.000.

Koerner, Gerhard; Hahn, Walter; and Plettner, Horst, to BBC Aktiengesellschaft Brown, Boverie & Cie. Switch drive. 4,654,492, 3-31-87, Cl. 200-153.00P.

Koerner, Goetz: *See—*
  Gruning, Burghard; Holtschmidt, Ulrich; Koerner, Goetz; and Rossmy, Gerd, 4,715,986, Cl. 252-315.200.

Koerner, Norman D.: *See—*
  Brooks, Royce L., 4,695,072, Cl. 280-650.000.
  Brooks, Royce L., 4,711,487, Cl. 297-183.000.

Koerner, Rudi. Apparatus for casting materials for false teeth. 4,640,334, 2-3-87, Cl. 164-287.000.

Koerner, Siegfried: *See—*
  Foerster, Karl-Heinz; and Koerner, Siegfried, 4,639,776, Cl. 358-107.000.

Koernig, Wolfgang: *See—*
  Merger, Franz; Hettinger, Peter; Weber, Theodor; Boettger, Guenter; and Koernig, Wolfgang, 4,665,219, Cl. 560-189.000.

Koerschner, Lou A.; Sloumb, Robert C.; and Weber, William E., to Leucadia, Inc. Tie-off closure method for netting products. 4,651,507, 3-24-87, Cl. 53-461.000.

Koerts, Kees; and Hanssens, Theodoor R., to Cooperatieve Vereniging Suiker Unie U.A. Process for the recovery of monosaccharides from poly-, oligo- and/or disaccharides containing tuberous plants by means of ultrafiltration. 4,702,839, 10-27-87, Cl. 210-638.000.

Koesfeld, Manfred: *See—*
  Grzanna, Ortwin; Koesfeld, Manfred; Weber, Rolf-Udo; Steuer, Aloysius; Romswinkel, Horst; Fremgen, Dieter; and Kastrop, Dieter, 4,693,767, Cl. 156-49.000.

Koester, Charles J.: *See—*
  Donn, Anthony; and Koester, Charles J., 4,710,197, Cl. 623-6.000.

Koester, Eberhard: *See—*
  Kohl, Albert; Melzer, Milena; Lehner, August; Schneider, Norbert; Koester, Eberhard; Balz, Werner; Sommermann, Friedrich; and Ricker, Ernst, 4,668,586, Cl. 428-411.100.
  Pfefferkorn, Dietmar; Nerschbach, Gerhard; Koester, Eberhard; Kreimes, Norbert; and Pavelka, Bozidar, 4,656,548, Cl. 360-132.000.

Koester, Eerhard: *See—*
  Lehner, August; Kohl, Albert; Roller, Hermann; Balz, Werner; Koester, Eerhard; and Sommermann, Friedrich, 4,656,093, Cl. 428-403.000.

Koester, Harold E., to IGT. Encoder/diverter unit for coin-operated machine. 4,650,057, 3-17-87, Cl. 194-346.000.

Koester, Klaus: *See—*
  Kruse, Hans; Koester, Klaus; Carduck, Franz-Josef; Wilsberg, Heinz-Manfred; and Puchta, Rolf, 4,642,197, Cl. 252-98.000.

Koester, Rainer; Smailos, Emanuel; Schwarzkopf, Werner; and Kiesow, Arthur, to Kernforschungszentrum Karlsruhe GmbH. Containment with long-time corrosion resistant cover for sealed containers with highly radioactive content. 4,702,391, 10-27-87, Cl. 220-456.000.

Koester, Rita: *See—*
  Tesmann, Holger; Blum, Helmut; and Koester, Rita, 4,702,823, Cl. 209-166.000.

Koestler, Thomas P., to SmithKline Beckman Corporation. Monoclonal antibody to activated macrophages. 4,701,408, 10-20-87, Cl. 435-7.000.

Koeth, Herbert A.: *See—*
  Corkran, William M.; Koeth, Herbert A.; and Pugsley, L. James, 4,636,778, Cl. 340-648.000.

Koetje, Edward L.; Simpson, Frederick H.; and Schorsch, James F., to Boeing Company, The. Broadband high temperature radome apparatus. 4,677,443, 6-30-87, Cl. 343-872.000.

Koetje, John R. Line connector. 4,693,031, 9-15-87, Cl. 43-44.910.

Koets, Howard, to Honeywell Inc. Thermostat with adjustable temperature range setpoint stops. 4,639,709, 1-27-87, Cl. 337-360.000.

Koetter, Joachim: *See—*
  Edinger, Egon; Koetter, Joachim; Kraske, Dietmar; Krumrey, Klaus; Mayser, Joerg; and Michael, Ulrich, 4,667,403, Cl. 29-840.000.

Koezuka, Tetsuo; Hiraoka, Noriyuki; Tsukahara, Hiroyuki; and Nakashima, Masato, to Fujitsu Limited. Pattern recognition apparatus. 4,672,678, 6-9-87, Cl. 382-30.000.

Koezuka, Tetsuo: *See—*
  Nakashima, Masato; Koezuka, Tetsuo; Tsukahara, Hiroyuki; and Inagaki, Takefumi, 4,651,341, Cl. 382-34.000.

Koffler, Adam: *See—*
  Culkin, Joseph B.; and Koffler, Adam, 4,689,134, Cl. 204-296.000.

Koffler, Henry. Universal bedside rail clamp. 4,676,687, 6-30-87, Cl. 403-386.000.

Kofink, Wolfgang: *See—*
  Andrei-Alexandru, Marcel; Kofink, Wolfgang; and Prohaska, Hans, 4,652,781, Cl. 310-83.000.

Andrei-Alexandru, Marcel; Kofink, Wolfgang; Schmid, Eckhardt; and Tietz, Volker, 4,698,560, Cl. 318-54.000.

Koflach Sportgerate Gesellschaft: *See—*
Hensler, Adolf, 4,657,609, Cl. 156-70.000.
Hensler, Adolf, 4,685,225, Cl. 36-117.000.

Kofler, Wilhelm, to Benninger AG. Winding machine for winding and/or unwinding web-like guided materials. 4,676,448, 6-30-87, Cl. 242-67.10R.

Kofler, Wilhelm, to Benninger AG. Winding machine for winding and/or unwinding web-like guided materials. 4,697,756, 10-6-87, Cl. 242-67.10R.

Kofoed, Bruce O. Sheet gripper tongs. 4,691,953, 9-8-87, Cl. 294-19.100.

Kofune, Shigeo: *See—*
Tojyo, Shigeki; Uesaka, Tatsuo; Kawate, Yoshio; Iwaskai, Masayoshi; Horiuchi, Takefumi; Moritoki, Masato; Kanda, Takeshi; Fujikawa, Takao; and Kofune, Shigeo, 4,666,314, Cl. 374-131.000.

Koga, Akihiro: *See—*
Sakurai, Akiyoshi; Koga, Akihiro; and Kambara, Toru, 4,671,612, Cl. 350-96.270.

Koga, Hiroshi; Mori, Takashi; Dan, Takashi; and Akima, Michitaka, to Chugai Seiyaku Kabushiki Kaisha. Furoxanthone derivatives useful as diuretics. 4,661,607, 4-28-87, Cl. 549-383.000.

Koga, Hiroshi: *See—*
Futamura, Kenichiro; Ohtsu Keiichiro; Fukuoka, Tatsuhiko; Takenaka, Kenji; Itakura, Yoshio; and Koga, Hiroshi, 4,641,570, Cl. 92-71.000.

Koga, Hitoshi; Noborio, Takehisa; and Nishimoto, Masushi, to Mitsui Petrochemical Industries, Ltd. Method of welding laminates each having the structure of metal layer/thermally softenable insulating layer/metal layer. 4,650,951, 3-17-87, Cl. 219-118.000.

Koga, Hitoshi: *See—*
Hashimoto, Mikio; Nakata, Yoshinari; and Koga, Hitoshi, 4,681,816, Cl. 428-463.000.

Koga, Itsuo, to Toyota Jidosha Kabushiki Kaisha. Device for processing fuel vapor. 4,655,189, 4-7-87, Cl. 123-519.000.

Koga, Kazuyoshi: *See—*
Fukunaga, Yasushi; Kuzunuki, Soshiro; Shojima, Hiroshi; Yokoyama, Takanori; Koga, Kazuyoshi; Hirasawa, Kotaro; and Kawada, Shinichi, 4,641,354, Cl. 382-13.000.

Koga, Keiichiro; Yamazaki, Norikazu; and Muratani, Takuro, to Kokusai Denshin Denwa Co., Ltd. Decoding method for multiple bit error correction BCH codes. 4,694,455, 9-15-87, Cl. 371-37.000.

Koga, Kiyoshi: *See—*
Matsuura, Kazuo; Yoshioka, Hiroshi; and Koga, Kiyoshi, 4,705,263, Cl. 267-33.000.

Koga, Kunio; Sasaki, Yukihiro; and Niwa, Hirotoshi, to Daicel Chemical Industries, Ltd. Extraction method. 4,658,057, 4-14-87, Cl. 562-608.000.

Koga, Masataka; Kitagawa, Masatoshi; and Oishi, Konosuke, to Hitachi, Ltd. Double polarized light beam spectrophotometer of light source modulation type. 4,645,341, 2-24-87, Cl. 356-307.000.

Koga, Mitsuyuki; Hirai, Kenichiro; Sugimae, Toshio; and Fukushige, Setsuo, to Koatsu Gas Kogyo Co., Ltd. α-cyanoacrylate adhesive composition of matter. 4,713,405, 12-15-87, Cl. 523-212.000.

Koga, Naoki: *See—*
Ueno, Shinji; and Koga, Naoki, 4,683,130, Cl. 423-579.000.

Koga, Norimichi: *See—*
Kohyama, Katsuhisa; Miyamoto, Masaaki; Nakanishi, Hidemi; and Koga, Norimichi, 4,684,713, Cl. 528-315.000.

Koga, Noritaka; and Yamagiwa, Toshio, to Honda Giken Kogyo Kabushiki Kaisha. Vehicle body frame of motor bicycle. 4,699,233, 10-13-87, Cl. 180-219.000.

Koga, Shinichiro; Kohyama, Katsuhisa; and Sakata, Katsuyuki, to Mitsubishi Chemical Industries Limited. Polycarbonate resin composition and process for its production. 4,661,555, 4-28-87, Cl. 524-611.000.

Koga, Tadao; Sugimori, Mitsuru; Terasaki, Masanori; Maenosono, Tsukasa; Tsushima, Satoru; Yoshida, Kazuo; Kuriwaki, Tetsusho; and Hirado, Miharu, to Daiichi Koshuha Kogyo Kabushiki Kaisha; and Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Induction heating method and apparatus for relieving residual stress in welded joints in pipe line. 4,687,894, 8-18-87, Cl. 219-10.430.

Koga, Tadao: *See—*
Ino, Toshio; Maenosono, Tsukasa; Yoshida, Kazuo; Terasaki, Masanori; Kuriwaki, Tetsusho; Koga, Tadao; and Hirado, Miharu, 4,694,131, Cl. 219-10.410.

Koga, Taiji: *See—*
Shimizu, Goro; Hayashi, Yoshimi; Hasegawa, Hajime; Koga, Taiji; Takei, Atsuo; Okuyama, Tohru; and Torigoe, Hideo, 4,666,949, Cl. 521-114.000.

Koga, Takaaki: *See—*
Combs, Daniel J.; Martin, Sylvia; Tremmel, Robert A.; Snell, Kenneth D.; Kamitani, Masaaki; Kimizuka, Ryoichi; and Koga, Takaaki, 4,699,696, Cl. 204-44.200.

Koga, Takeri: *See—*
Tanaka, Keiji; Honryo, Hatsuo; and Koga, Takeri, 4,637,567, Cl. 242-56.00R.

Koga, Toshio, to NEC Corporation. Video signal compressing and coding apparatus. 4,656,511, 4-7-87, Cl. 358-136.000.

Koga, Toshio, to NEC Corporation. Encoder with selective indication of compression encoding and decoder therefor. 4,684,923, 8-4-87, Cl. 340-347.0DD.

Koga, Toshio, to NEC Corporation. Predictive coding/decoding apparatus for video signal. 4,710,810, 12-1-87, Cl. 358-133.000.

Koga, Yasufumi; Ogasawara, Shinji; and Maeda, Kazuhiko, to Central Glass Company, Limited. Electroconductive resin composition using fluorine-containing graft copolymer. 4,655,963, 4-7-87, Cl. 252-511.000.

Koga, Yasufumi: *See—*
Kawashima, Chikashi; Ogasawara, Shinji; Tanaka, Isao; and Koga, Yasufumi, 4,652,592, Cl. 522-117.000.

Koga, Yasuharu; Yamamoto, Fumitada; and Shimokawa, Hideharu, to Idemitsu Petrochemical Co., Ltd. Cement additive composition. 4,655,838, 4-7-87, Cl. 106-90.000.

Koga, Yasuharu; Yasumura, Jiro; and Nagano, Mitsuo, to Idemitsu Petrochemical Co., Ltd. Cement additives. 4,662,942, 5-5-87, Cl. 106-90.000.

Koga, Yoshihiro: *See—*
Tanaka, Kiyoshi; Koga, Yoshihiro; Saeki, Masaru; Kaneko, Tetsuya; and Kawakita, Tetsuya, 4,663,048, Cl. 210-638.000.
Tanaka, Kiyoshi; Saeki, Masaru; Matsuishi, Tsutomu; Koga, Yoshihiro; and Kawakita, Tetsuya, 4,714,767, Cl. 548-344.000.
Tosa, Takafumi; Koga, Yoshihiro; and Matsuishi, Tsutomu, 4,691,054, Cl. 562-554.000.

Koga, Yukuo: *See—*
Hashiguchi, Shinji; Kimata, Hisayuki; and Koga, Yukuo, 4,706,090, Cl. 342-41.000.

Kogai, Masamiti: *See—*
Kobayashi, Masafumi; Nagaoka, Hiroyasu; Hayakawa, Hiroshi; and Kogai, Masamiti, 4,665,832, Cl. 104-165.000.

Kogaito, Kikuo: *See—*
Fujimoto, Masakazu; and Kogaito, Kikuo, 4,693,305, Cl. 165-95.000.

Kogan, David I.: *See—*
Kostylev, Alexandr D.; Danilov, Boris B.; Smolyanitsky, Boris N.; Boginsky, Vladimir P.; Kogan, David I.; Smirnov, Oleg V.; and Saveliev, Vyacheslav N., 4,705,119, Cl. 175-92.000.
Kostylev, Alexandr D.; Boginsky, Vladimir P.; Smolyanitsky, Boris N.; Syryamin, Jury N.; Danilov, Boris B.; Kogan, David I.; and Saveliev, Vyacheslav N., 4,709,768, Cl. 175-296.000.

Kogan, Marcelo; Dinizo, Stephen E.; and Fancher, Llewellyn W., to Stauffer Chemical Company. Isothiourea herbicidal composition. 4,714,493, 12-22-87, Cl. 71-99.000.

Kogan, Vadim E.: *See—*
Gaprindashvili, Khanzerifa I.; Kogan, Vadim E.; Kekelia, Dzhemal I.; Pronkin, Alexei A.; Salukvadze, Nana A.; Bakuradze, Georgy V.; and Evstropiev, Konstantin K., deceased, 4,649,126, Cl. 501-43.000.

Kogane, Mikio, to Fuji Photo Film Co., Ltd. Print mask apparatus. 4,634,268, 1-6-87, Cl. 355-74.000.

Kogane, Mikio; Suzuki, Kenji; Kito, Eiichi; Kubota, Kazufumi; and Tokuda, Kanji, to Fuji Photo Film Co., Ltd. Photographic paper accommodating apparatus. 4,639,118, 1-27-87, Cl. 355-29.000.

Kogane, Mikio; and Shibazaki, Teruo, to Fuji Photo Film Co., Ltd. Photographic printing apparatus. 4,652,117, 3-24-87, Cl. 355-72.000.

Kogane, Mikio; and Shibazaki, Teruo, to Fuji Photo Film Co., Ltd. Apparatus for automatically winding up photographic paper. 4,688,737, 8-25-87, Cl. 242-67.10R.

Kogane, Mikio, to Fuji Photo Film Co., Ltd. Photographic paper accommodating apparatus. 4,697,918, 10-6-87, Cl. 355-27.000.

Kogashiwa, Kiyonori: *See—*
Ikushima, Fumio; Itoh, Senji; and Kogashiwa, Kiyonori, 4,692,132, Cl. 493-103.000.

Kogawa, Kiyonori: *See—*
Akahoshi, Haruo; Murakami, Kanji; Wajima, Motoyo; Kogawa, Kiyonori; Toba, Ritsuji; and Shimazaki, Takeshi, 4,642,161, Cl. 156-630.000.

Kogelschatz, Ulrich: *See—*
Beer, Hans-Rudolf; Britsch, Helmut; Hirth, Michael; Kaiser, Tony; and Kogelschatz, Ulrich, 4,650,648, Cl. 422-186.070.
Gloor, Urs; Hirth, Michael; and Kogelschatz, Ulrich, 4,654,199, Cl. 422-186.190.
Gloor, Urs; Hirth, Michael; and Kogelschatz, Ulrich, 4,693,870, Cl. 422-186.190.

Koger, T. Bruce: *See—*
Bernstein, Jonathan J.; Koger, T. Bruce; and Chanley, Charles S., 4,705,659, Cl. 264-29.600.

Koglin, Bernd: *See—*
Bender, Wolfgang; Mrotzek, Dieter; Koglin, Bernd; and Steiner, Karl-Heinz, 4,714,456, Cl. 494-36.000.

Koguchi, Noriyuki, to Iwaya Corporation. Playing animal toy. 4,636,177, 1-13-87, Cl. 446-236.000.

Kogumasaka, Katsuya: *See—*
Seki, Masahiko; Nakatani, Hiroshi; Kogumasaka, Katsuya; Takao, Seiyu; Arimitsu, Isao; and Fujimori, Hisanori, 4,653,065, Cl. 373-80.000.

Kogumazaka, Shinji: *See—*
Hagiwara, Tatsuo; Imai, Keiji; Nagaoka, Shigenori; Kogumazaka, Shinji; Yahagi, Kyoichi; Imagawa, Takeshi; Ishii, Hidenaga; and Kikuchi, Toshitsugu, 4,645,133, Cl. 241-182.000.
Hagiwara, Tatsuo; Imai, Keiji; Nagaoka, Shigenori; Kogumazaka, Shinji; Yahagi, Kyoichi; Imagawa, Takeshi; Ishii, Hidenaga; and Kikuchi, Toshitsugu, 4,664,321, Cl. 241-176.000.
Imai, Keiji; Nagaoka, Shigenori; Kogumazaka, Shinji; Imagawa, Takeshi; Ishii, Hidenaga; and Kikuchi, Toshitsugu, 4,666,591, Cl. 209-38.000.

Kogure, Hiroshi: *See—*
Hibino, Yoshitaka; and Kogure, Hiroshi, 4,712,452, Cl. 74-866.000.
Ui, Masahito; Akiyama, Hideo; Todokoro, Akio; Natsui, Yukio; Kogure, Hiroshi; Kato, Yujiro; and Ozaki, Tsuneo, 4,667,400, Cl. 29-825.000.

- Ui, Masahito; Akiyama, Hideo; Todokoro, Akio; Natsui, Yukio; Kogure, Hiroshi; Kato, Yujiro; and Ozaki, Tsuneo, 4,686,328, Cl. 174-153.00R.

Kogure, Katsura: *See—*
- Tahara, Yoshiyuki; Nagai, Michiko; Kogure, Katsura; Kawase, Shigeo; and Yamaguchi, Teruhito, 4,642,314, Cl. 514-475.000.

Kogure, Kazuo: *See—*
- Washizu, Shoichi; Morijiri, Takeshi; Kogure, Kazuo; and Arimitsu, Satoshi, 4,679,668, Cl. 188-353.000.

Kogure, Osamu: *See—*
- Fujii, Tsuneo; Inukai, Hiroshi; Deguchi, Takayuki; Amano, Toshihiko; Kakuchi, Masami; Asakawa, Hiroshi; and Kogure, Osamu, 4,686,168, Cl. 430-326.000.
- Fukuda, Mitsutoshi; Fukutomi, Makoto; Kogure, Osamu; and Miyoshi, Kazunori, 4,690,887, Cl. 430-331.000.
- Tanaka, Akinobu; Morita, Masao; Imamura, Saburo; Tamamura, Toshiaki; and Kogure, Osamu, 4,702,990, Cl. 430-197.000.

Kogure, Tomohiko; Hiraga, Tadayoshi; Mama, Riichiro; and Takasugi, Nobuhito, to Yokohama Rubber Co., Ltd., The. Pneumatic tire tread. 4,649,975, 3-17-87, Cl. 152-209.00R.

Kogure, Toshiharu; and Masubuchi, Noriaki, to Seiko Seiki Kabushiki Kaisha. Disc clutch mechanism for a magnetic disc apparatus of cartridge type. 4,658,944, 4-21-87, Cl. 192-84.0PM.

Kogure, Tsuneo; Tsuchiyama, Yuji; Amano, Tadashi; Takahashi, Hideaki; Sekita, Katsuji; and Akami, Ichio, to Amada Company, Limited. Press machine. 4,656,862, 4-14-87, Cl. 72-443.000.

Kogure, Tsuneo; Tsuchiyama, Yuji; Amano, Tadashi; Takahashi, Hideaki; Sekita, Katsuji; and Akami, Ichio, to Amada Company, Limited. Bending press. 4,672,831, 6-16-87, Cl. 72-21.000.

Koguro, Yasuyuki: *See—*
- Kondo, Isao; and Koguro, Yasuyuki, 4,707,035, Cl. 301-37.00P.

Koh, Hiroshi; and Tokuyama, Takashi, to Fujitec Co. Seismic detector. 4,662,225, 5-5-87, Cl. 73-655.000.

Koh-I-Noor Rapidograph, Inc.: *See—*
- Boeckmann, Juergen; Bruhn, Bernhard; Hofmann, Harald; Hoejer, Anke; Mikuteit, Axel; Ritter, Hans-Joachim; and Tenhagen, Rolf, 4,669,617, Cl. 211-69.700.
- Micale, Fortunato J., 4,665,107, Cl. 523-105.000.

Kohal, Lester L. Orthogonal adjustable socket wrench. 4,662,251, 5-5-87, Cl. 81-58.000.

Kohama, Hajime: *See—*
- Mizunoya, Nobuyuki; Kohama, Hajime; and Sugiura, Yasuyuki, 4,693,409, Cl. 228-122.000.

Kohama, Masayuki; Wakabayashi, Tatsuro; and Tsunoda, Kouichi, to Oiles Industry Co., Ltd. Method of manufacturing wound bush bearing with notch-free flange and mold assembly for manufacturing the same. 4,638,538, 1-27-87, Cl. 29-149.50C.

Kohama, Masayuki; Wakabayashi, Tatsuro; and Tsunoda, Koichi, to Oiles Industry Co., Ltd. Apparatus for producing bearings in the form of press worked bush. 4,660,401, 4-28-87, Cl. 72-331.000.

Kohama, Masayuki; Wakabayashi, Tatsuro; and Tsunoda, Kouichi, to Oils Industry Co., Ltd. Method of manufacturing wound bush bearing with notch-free flange and mold assembly for manufacturing the same. 4,693,107, 9-15-87, Cl. 72-354.000.

Kohama, Mitsuyoshi: *See—*
- Kishi, Toshiaki; and Kohama, Mitsuyoshi, 4,678,223, Cl. 296-78.100.

Kohama, Satoshi; Wakamiya, Yoshinori; and Tsuruda, Makoto, to Kobe Steel, Ltd.; and Mitsubishi Denki Kabushiki Kaisha. Heating control method of heat furnace. 4,657,507, 4-14-87, Cl. 432-18.000.

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- Egami, Tsuneyuki; Saito, Tsutomu; Kohama, Tokio; Saito, Kimitaka; Sato, Kunihiko; and Takahashi, Hiroshi, 4,635,200, Cl. 364-431.050.
- Miura, Kazuhiko; Hattori, Tadashi; Iwasaki, Yukio; Kohama, Tokio; and Kanehara, Kenji, 4,677,850, Cl. 73-204.000.
- Miura, Kazuhiko; Hattori, Tadashi; Iwasaki, Yukio; Kohama, Tokio; and Kanehara, Kenji, 4,682,496, Cl. 73-204.000.
- Miura, Kazuhiko; Hattori, Tadashi; Iwasaki, Yukio; Kohama, Tokio; and Kanehara, Kenji, 4,693,116, Cl. 73-204.000.
- Nakayama, Toshiaki; Kohama, Tokio; Okada, Isamu; and Yokoyama, Tamio, 4,702,940, Cl. 427-244.000.
- Obayashi, Hideki; Kawai, Hisasi; Ina, Toshikazu; Shigematsu, Takashi; Tokoro, Setsuo; and Kohama, Tokio, 4,691,286, Cl. 364-431.040.
- Saito, Tsutomu; Egami, Tsuneyuki; Kohama, Tokio; Saito, Kimitaka; Takahashi, Hiroshi; and Sato, Kunihiko, 4,633,840, Cl. 123-489.000.

Kohan, Stanford P.: *See—*
- Davis, Cecil J.; Spencer, John E.; Hockersmith, Dan T.; Hildenbrand, Randall C.; Brown, Frederick W.; and Kohan, Stanford P., 4,657,620, Cl. 156-345.000.
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Kohara, Kenji: *See—*
- Shirakawa, Shingo; Maruyama, Seiichi; Nakano, Seizo; Okamoto, Eichi; and Kohara, Kenji, 4,675,773, Cl. 361-63.000.

Kohara, Masanobu; Nakao, Shin; and Shibata, Hiroshi, to Mitsubishi Denki Kabushiki Kaisha. Method of making a dimensionally stable semiconductor device. 4,654,966, 4-7-87, Cl. 29-840.000.

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- Inoue, Masaru; Ida, Masao; and Kohara, Takao, 4,665,764, Cl. 74-436.000.
- Inoue, Masaru; Ida, Masao; and Kohara, Takao, 4,686,863, Cl. 74-425.000.

Kohara, Yuritoshi: *See—*
- Nakagawa, Fumio; Nakamura, Kazuyoshi; Shibao, Hitoshi; Yoshimura, Hiroshi; Taki, Koichi; Inoue, Makoto; Hayashi, Eiji; Dejima, Fusao; and Kohara, Yuritoshi, 4,690,638, Cl. 432-81.000.

Kohashi, Makoto: *See—*
- Mori, Tohru; Kohashi, Makoto; and Ariki, Yoshio, 4,653,103, Cl. 381-99.000.

Kohashi, Narahisa, to Nishihara Shokai Co., Ltd. Display device of cumulative amount of money for coins. 4,667,689, 5-26-87, Cl. 453-58.000.

Kohashi, Tadao: *See—*
- Onishi, Hiroshi; Esaki, Hiroshi; and Kohashi, Tadao, 4,670,307, Cl. 427-261.000.

Kohashi, Toru; and Adachi, Motoyuki, to Yamato Scale Company, Limited. Device for correcting dynamic weight signal from conveyer weigher. 4,709,770, 12-1-87, Cl. 177-50.000.

Kohaszati Cyaropito Vallalat Gepipari Technologiai Intezet: *See—*
- Bacskai, Endre; Retfalvi, Ferenc; and Sasdi, Andras, 4,694,479, Cl. 378-58.000.

Kohata, Toshihide; Miyazaki, Masaru; Sato, Yoshihisa; and Ikeda, Junichi, to Japan Tobacco, Inc. Apparatus for controlling amount of delivery in wrapping material feed system. 4,697,408, 10-6-87, Cl. 57-264.000.

Kohata, Toshihide: *See—*
- Miyazaki, Masaru; and Kohata, Toshihide, 4,705,225, Cl. 242-56.00R.

Kohatsu, Iwao: *See—*
- Harley, A. Dale; Duquette, Lawrence G.; Khoury, Issam A.; and Kohatsu, Iwao, 4,710,227, Cl. 106-193.00R.
- Khoury, Issam A.; Heistand, Robert H., II; and Kohatsu, Iwao, 4,641,221, Cl. 361-321.000.
- Wood, Clayton D.; Garrou, Philip E.; Kohatsu, Iwao; and Gleason, Edward F., 4,642,302, Cl. 502-332.000.

Kohayakawa, Hiromasa: *See—*
- Toshimitsu, Kenshi; and Kohayakawa, Hiromasa, 4,711,555, Cl. 355-14.00R.

Kohayakawa, Masami, to Toko, Inc. Delay line device and method of making same. 4,641,112, 2-3-87, Cl. 333-140.000.

Kohayakawa, Yoshimi; and Masuda, Takashi, to Canon Kabushiki Kaisha. Stereoscopic microscope. 4,634,241, 1-6-87, Cl. 350-516.000.

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Kohayakawa, Yoshimi: *See—*
- Sekiguchi, Kyoji; and Kohayakawa, Yoshimi, 4,697,895, Cl. 351-243.000.

Kohberg, Ewald: *See—*
- Lohr, Karl-Heinz; Kohberg, Ewald; Kuchheuser, Werner; and Dorhmann, Wolfgang, 4,641,872, Cl. 293-133.000.

Kohda, Kazuo, to Victor Company of Japan, Ltd. Automatic tape loading type recording and/or reproducing apparatus having a plurality of modes. 4,642,712, 2-10-87, Cl. 360-85.000.

Kohen, Isak, to Societe a Responsabilite Limitee l'Electricfil Industrie. Pickup having encapsulated electrical and magnetic elements. 4,680,543, 7-14-87, Cl. 324-208.000.

Kohge, Shinichi: *See—*
- Morishita, Mitsuharu; Hara, Tadayuki; Kohge, Shinichi; Watanabe, Tetsushi; and Ikari, Yasuki, 4,635,741, Cl. 180-79.100.
- Morishita, Mitsuharu; Hara, Tadayuki; Kohge, Shinichi; Watanabe, Tetsushi; and Ikari, Yasuki, 4,666,010, Cl. 180-79.100.

Kohguchi, Takuma: *See—*
- Haruguchi, Kenji; Kohguchi, Takuma; and Sekiya, Osamu, 4,712,499, Cl. 114-77.00R.

Kohjin Co., Ltd.: *See—*
- Arita, Masanobu; Tanaka, Hisao; and Mogami, Yukio, 4,652,490, Cl. 428-347.000.

Kohjiya, Shinzo; Yamashita, Shinzo; Iri, Masahiro; Osawa, Yoshitaka; and Uemiya, Takafumi, to Sumitomo Electric Industries, Ltd. Functional elastomer. 4,656,245, 4-7-87, Cl. 528-405.000.

Kohketsu, Tadashi: *See—*
- Yamaguchi, Hiroshi; Tanaka, Teruaki; Hirai, Masatake; Kohketsu, Tadashi; Matsumoto, Masahiro; and Kawate, Kenji, 4,649,248, Cl. 219-10.570.

Kohl, Albert; Melzer, Milena; Lehner, August; Schneider, Norbert; Koester, Eberhard; Balz, Werner; Sommermann, Friedrich; and Ricker, Ernst, to BASF Aktiengesellschaft. Magnetic recording media. 4,668,586, 5-26-87, Cl. 428-411.100.

Kohl, Albert: *See—*
- Lehner, August; Kohl, Albert; Balz, Werner; Sommermann, Friedrich; Velic, Milan; Grau, Werner; and Baur, Reinhold, 4,647,513, Cl. 428-694.000.
- Lehner, August; Kohl, Albert; Roller, Hermann; Balz, Werner; Koester, Eerhard; and Sommermann, Friedrich, 4,656,093, Cl. 428-403.000.
- Lehner, August; Balz, Werner; Lenz, Werner; Kohl, Albert; and Heil, Guenter, 4,671,969, Cl. 427-48.000.
- Lehner, August; Heil, Guenter; Lenz, Werner; Balz, Werner; Kohl, Albert; and Schornick, Gunnar, 4,673,591, Cl. 427-48.000.

- Kohl, Arthur L., to Rockwell International Corporation. Gasification of black liquor. 4,682,985, 7-28-87, Cl. 48-197.00R.
- Kohl, Bernhard: *See—*
  - Rainer, Georg; Figala, Volker; and Kohl, Bernhard, 4,686,230, Cl. 514-338.000.
  - Schaible, Siegfried; Hohlwegler, Heinz; and Kohl, Bernhard, 4,711,078, Cl. 56-341.000.
  - Schaible, Siegfried; Wolfle, Hans-Peter; Gusewell, Eike; and Kohl, Bernhard, 4,715,175, Cl. 56-432.000.
- Kohl, Horst: *See—*
  - Kuckens, Alexander; and Kohl, Horst, 4,675,165, Cl. 422-261.000.
  - Kuckens, Alexander; and Kohl, Horst, 4,689,067, Cl. 71-3.000.
- Kohl, James E.: *See—*
  - Harnden, John D., Jr.; Kornrumpf, William P.; Kohl, James E.; and Adler, Michael S., 4,697,118, Cl. 310-331.000.
  - Wildi, Eric J.; and Kohl, James E., 4,661,838, Cl. 357-23.800.
- Kohl, Jerry. Decorative plaque with replaceable decorative element. 4,691,460, 9-8-87, Cl. 40-618.000.
- Kohl, Lambert: *See—*
  - Koenig, Karlheinz; Kohl, Lambert; Witz, Ruediger; and Roeger, Bernd, 4,672,491, Cl. 360-106.000.
  - Manzke, Klaus; Schneider, Richard; and Kohl, Lambert, 4,680,656, Cl. 360-98.000.
- Kohl, Paul A.: *See—*
  - Burrus, Charles A., Jr.; Kohl, Paul A.; Lee, Tien P.; and Ostermayer, Frederick W., Jr., 4,689,125, Cl. 204-129.300.
- Kohlen, Karl-Heinz, to Hacoba Textilmaschinen GmbH & Co. KG. Creel for warping machine. 4,664,335, 5-12-87, Cl. 242-131.100.
- Kohler, Alfred; Schneider, Theodor; and Schubert, Karl F., to SWF Auto-Electric GmbH. Windshield wiper motor. 4,639,065, 1-27-87, Cl. 339-119.00R.
- Kohler Coating Machinery Corporation, The: *See—*
  - Kohler, Herbert B.; and Kohler, John B. 4,697,542, Cl. 118-63.000.
- Kohler Co.: *See—*
  - Bracht, Jeffrey L.; Heinrich, Martin W.; van Maaren, Richard D.; and Sleder, Richard L., 4,677,940, Cl. 123-2.000.
  - Grimstad, Ronald N., 4,688,274, Cl. 4-236.000.
  - Mesun, Randy O.; and Schobert, Frank, 4,710,987, Cl. 4-420.000.
  - Risberg, Mark A.; and Spooner, Tobin H., 4,646,370, Cl. 4-661.000.
  - Seaman, John W., 4,653,201, Cl. 34-90.000.
  - Spooner, Tobin H., 4,646,780, Cl. 137-426.000.
- Kohler, Elke: *See—*
  - Heitmann, Uwe; Pinck, Peter; Kohler, Elke; Maiwald, Berthold; and Marsau, Uwe, 4,645,921, Cl. 250-223.00R.
- Kohler, Emil K.: *See—*
  - von Matuschka, Alfred G.; Liethschmidt, Klaus; Webert, Hubertus; and Kohler, Emil K., 4,715,812, Cl. 432-258.000.
- Kohler, Fritz; and Perotti, Andre, to Edouard Dubied & Cie, S.A. Knitting machine with electromagnetic needle selection. 4,644,763, 2-24-87, Cl. 66-75.200.
- Kohler, Gerd; and Burger, Rudolf, to Siemens Aktiengesellschaft. Safety device for an industrial robot. 4,655,674, 4-7-87, Cl. 414-735.000.
- Kohler, Gerd; and Burger, Rudolf, to Siemens Aktiengesellschaft. Protection arrangement for industrial robotics. 4,661,038, 4-28-87, Cl. 414-730.000.
- Kohler, Hans E. P., to U.S. Philips Corporation. Remote control hand apparatus for operating different modules. 4,712,105, 12-8-87, Cl. 340-825.690.
- Kohler, Helmut, to Luk Lamellen und Kupplungsbau GmbH. Fastening devices for friction clutches. 4,635,775, 1-13-87, Cl. 192-70.180.
- Kohler, Herbert B.; and Kohler, John B., to Kohler Coating Machinery Corporation, The. Adjustable nozzle for coating equipment. 4,697,542, 10-6-87, Cl. 118-63.000.
- Kohler, Ingolf: *See—*
  - Katernberg, Helmut; and Kohler, Ingolf, 4,691,656, Cl. 114-45.000.
- Kohler, John B.: *See—*
  - Kohler, Herbert B.; and Kohler, John B., 4,697,542, Cl. 118-63.000.
- Kohler, Karl-Heinz; Lindner, Christian; Rempel, Dieter; Weber, Gunter; Ott, Karl-Heinz; and Binsack, Rudolph, to Bayer Aktiengesellschaft. Thermoplastic moulding compositions based on polyalkylene terephthalate and polymer and a process for the production thereof. 4,666,972, 5-19-87, Cl. 524-504.000.
- Kohler, Karl-Heinz: *See—*
  - Binsack, Rudolf; Kohler, Karl-Heinz; Grigo, Ulrich; Morbitzer, Leo; Bottenbruch, Ludwig; and Heitz, Walter, 4,686,262, Cl. 525-177.000.
- Kohler, Klaus: *See—*
  - Andrade, Juan; Prescher, Gunter; and Kohler, Klaus, 4,691,062, Cl. 568-495.000.
- Kohler, Kurt: *See—*
  - Bodensieck, Hans-Rudolf; Dobler, Karl-Otto; Hanel, Horst; Kohler, Kurt; Liedtke, Frieder; and Seliger, Siegfried, 4,658,340, Cl. 362-267.000.
- Kohler, Norbert: *See—*
  - Durand, Jean-Pierre; Nicolas, Denise; Kohler, Norbert; Dawans, Francois; and Candau, Francoise, 4,681,912, Cl. 524-827.000.
- Kohler-Pavlek, Johann: *See—*
  - Muller, Alfred; and Kohler-Pavlek, Johann, 4,655,473, Cl. 280-610.000.
- Kohler, Robert: *See—*
  - Kober, Kurt; Wohrle, Rudolf; and Kohler, Robert, 4,664,402, Cl. 280-446.00B.
- Kohler, Rolf: *See—*
  - Blocher, Eberhard; Kohler, Rolf; Schmidt, Peter-Jurgen; Schmitt, Manfred; and Wahl, Josef, 4,676,215, Cl. 123-489.000.
  - Plapp, Gunther; Zichner, Botho; Jautelat, Rudiger; Kohler, Rolf; Kratt, Alfred; and Muller, Hans-Martin, 4,705,007, Cl. 123-519.000.
- Kohler, Rolf-Dieter: *See—*
  - Hagen, Helmut; and Kohler, Rolf-Dieter, 4,667,035, Cl. 544-246.000.
  - Hagen, Helmut; Ziegler, Hans; Kohler, Rolf-Dieter; Pommer, Ernst-Heinrich; and Dressel, Jurgen, 4,699,983, Cl. 546-311.000.
  - Hagen, Helmut; Kohler, Rolf-Dieter; Markert, Jurgen; and Wuerzer, Bruno, 4,715,889, Cl. 71-94.000.
- Kohler, Wolfgang; Hommes, Hans-Jurgen; and Muhl, Artur, to Meteor-Siegen Apparatebau Paul Schmeck GmbH. Method and apparatus for transferring a latent electrical image. 4,664,500, 5-12-87, Cl. 355-3.0TE.
- Kohler, Wolfgang: *See—*
  - Schulzen, Herbert; Kohler, Wolfgang; and Schliessmann, Kurt, 4,681,034, Cl. 101-211.000.
- Kohli, Dalip K.; and Fisher, Michael M., to American Cyanamid Company. Curable epoxy resin compositions. 4,645,803, 2-24-87, Cl. 525-423.000.
- Kohli, Dalip K.: *See—*
  - Wang, David W.; Courter, Jeanne L.; and Kohli, Dalip K., 4,636,535, Cl. 523-204.000.
- Kohlmann, Friedrich-Wilhelm: *See—*
  - Janssen, Bernd; Meyer, Norbert; Pommer, Ernst-Heinrich; Ammermann, Eberhard; Kohlmann, Friedrich-Wilhelm; Wesenberg, Walter; and Heberle, Wolfgang, 4,670,454, Cl. 514-383.000.
- Kohlmetz, Charles W.; Urban, James J.; and Kenny, John. Kinetic heater. 4,696,283, 9-29-87, Cl. 126-247.000.
- Kohlpaintner, Georg; Fuerst, Arpad; and Bienert, Horst, to Webasto-Werk W. Baier GmbH & Co. Sliding and lifting roof for vehicles having a tilt-out guide arrangement. 4,647,104, 3-3-87, Cl. 296-221.000.
- Kohlpaintner, Georg: *See—*
  - Bienert, Horst; and Kohlpaintner, Georg, 4,681,364, Cl. 296-217.000.
- Kohls, John F.: *See—*
  - Westfall, Raymond T.; and Kohls, John F., 4,672,301, Cl. 323-243.000.
- Kohls, Mitchell L.; Smith, Loren G.; and Zahringer, H. David, to Jockey International, Inc. Merchandise display and dispensing device. 4,706,821, 11-17-87, Cl. 211-593.000.
- Kohlstadt, Hans-Peter: *See—*
  - Oezelli, Riza N.; Hoffmann, Hans-Josef; and Kohlstadt, Hans-Peter, 4,670,057, Cl. 106-236.000.
- Kohlstette, Werner; and Koch, Rudolf, to Westfalia Separator AG. Centrifuge with a self-emptying drum. 4,670,005, 6-2-87, Cl. 494-40.000.
- Kohlwey, David E., to Louisiana State Rice Milling Company Inc. Process for producing improved dehydrated rice and product. 4,649,055, 3-10-87, Cl. 426-449.000.
- Kohmo, Hidenori: *See—*
  - Taniguti, Ryosuke; Kohmo, Hidenori; Kubo, Manabu; and Ikeda, Takashi, 4,688,184, Cl. 364-560.000.
- Kohmoto, Eiji: *See—*
  - Tsukamoto, Hidehiko; Kohmoto, Eiji; Asada, Koichi, deceased; Yamasaki, Masakuni; Matsumoto, Kenichi; Nakazono, Eiji; Wakamiya, Yoshinori; and Kuramoto, Satoru, 4,672,830, Cl. 72-8.000.
- Kohmoto, Michio: *See—*
  - Tajiri, Kazuhiro; Kohmoto, Michio; Saito, Kiyoshi; and Takahira, Hitoshi, 4,639,476, Cl. 523-213.000.
- Kohmoto, Mitsuo: *See—*
  - Okano, Minoru; and Kohmoto, Mitsuo, 4,682,268, Cl. 361-384.000.
- Kohmoto, Shinsuke, to Asahi Kokaku Kogyo Kabushiki Kaisha. Zoom lens with macromechanism. 4,645,310, 2-24-87, Cl. 350-430.000.
- Kohmoto, Yujiro; and Tanimoto, Yoshihiro, to Sanyo Electric Co., Ltd. Image forming apparatus. 4,684,235, 8-4-87, Cl. 355-3.00R.
- Kohn, Elliott S., to Westinghouse Electric Corp. Technique for promoting CATV pay-per-view events and acknowledging subscriber orders. 4,700,386, 10-13-87, Cl. 380-10.000.
- Kohn, Erhard, to Thomson-CSF. Field effect transistor with a submicron vertical structure and its production process. 4,698,654, 10-6-87, Cl. 357-22.000.
- Kohn, Gabriel S., to Allen-Bradley Company, Inc. Tactile feedback apparatus for rotary manual input. 4,652,805, 3-24-87, Cl. 318-628.000.
- Kohn, Joachim; and Langer, Robert S., to Massachusetts Institute of Technology. Non-peptide polyamino acid bioerodible polymers. 4,638,045, 1-20-87, Cl. 530-323.000.
- Kohn, Roger; and Shields, William K. M. Protective device. 4,709,695, 12-1-87, Cl. 128-132.00R.
- Kohne, Bernd: *See—*
  - Praefcke, Klaus; Kohne, Bernd; Poetsch, Eike; and Herz, Claus P., 4,713,196, Cl. 252-299.010.
- Kohne, Hans-Heinrich: *See—*
  - Knothe, Erich; and Kohne, Hans-Heinrich, 4,664,207, Cl. 177-181.000.
- Kohnen, Franz: *See—*
  - Detzer, Rudiger; Loew, Werner; and Kohnen, Franz, 4,697,435, Cl. 62-304.000.
- Kohnert, Hans-Jurgen, to Mahle GmbH. Aluminum base alloy piston for internal combustion engines with mechanically surface-condensed boss bores. 4,633,764, 1-6-87, Cl. 92-208.000.
- Kohnert, Hans-Jurgen, to Mahle GmbH. Cast piston with fiber-reinforcement. 4,662,326, 5-5-87, Cl. 123-193.00P.

Kohnert, Heinz: *See—*
  Sick, Georg; Stenzel, Otto; Kohnert, Heinz; and Kemmer, Hans-Johann, 4,658,404, Cl. 373-143.000.
Kohnke, William M. Spent cartridge collector. 4,715,141, 12-29-87, Cl. 42-96.000.
Kohnken, Kent H., to GTE Products Corporation. Heat recuperator having ceramic core. 4,688,629, 8-25-87, Cl. 165-82.000.
Kohno, Akiomi; Nakae, Hideo; Yamamoto, Akihiko; and Kawamoto, Hiroyuki, to Hitachi, Ltd. Method of bonding alumina to metal. 4,699,310, 10-13-87, Cl. 228-122.000.
Kohno, Akiyoshi: *See—*
  Teranishi, Nobukazu; and Kohno, Akiyoshi, 4,652,911, Cl. 358-44.000.
Kohno, Hideki: *See—*
  Matsui, Shigeru; Sekihara, Kensuke; Kohno, Hideki; Onodera, Takashi; and Shiono, Hidemi, 4,689,568, Cl. 324-309.000.
  Sekihara, Kensuke; Yamamoto, Etsuji; Matsui, Shigeru; and Kohno, Hideki, 4,672,318, Cl. 324-307.000.
  Sekihara, Kensuke; Kuroda, Masao; and Kohno, Hideki, 4,672,320, Cl. 324-312.000.
  Sekihara, Kensuke; Matsui, Shigeru; Kohno, Hideki; Yamamoto, Etsuji; and Shiono, Hidemi, 4,716,369, Cl. 324-309.000.
  Yamamoto, Etsuji; Kohno, Hideki; Kuroda, Masao; Matsui, Shigeru; and Shiono, Hidemi, 4,683,433, Cl. 324-309.000.
  Yamamoto, Etsuji; Kohno, Hideki; and Takeda, Ryuzaburo, 4,701,709, Cl. 324-312.000.
Kohno, Hiroji: *See—*
  Maruyama, Hitoshi; Ono, Isao; Kohno, Hiroji; Yamauchi, Junnosuke; and Okaya, Takuji, 4,708,947, Cl. 503-209.000.
Kohno, Kouji; Takubo, Hiroichi; and Ito, Toshinobu, to Mazda Motor Corporation. Bearing arrangements for balancing shafts of internal combustion engines. 4,690,111, 9-1-87, Cl. 123-192.00B.
Kohno, Kouji; Takubo, Hiroichi; and Ito, Toshinobu, to Mazda Motor Corporation. Cylinder block structure for internal combustion engine. 4,696,267, 9-29-87, Cl. 123-192.00B.
Kohno, Kyoji: *See—*
  Kunugi, Yoshifumi; Sugimoto, Shigeo; Kohno, Kyoji; Ouchi, Tomihisa; and Machizawa, Kenji, 4,655,053, Cl. 62-476.000.
Kohno, Masahiro: *See—*
  Aoyama, Masaaki; Itabashi, Mitsuharu; Miura, Mariko; and Kohno, Masahiro, 4,696,905, Cl. 436-64.000.
Kohno, Michio, to Canon Kabushiki Kaisha. Focus detection in a projection optical system. 4,705,940, 11-10-87, Cl. 250-201.000.
Kohno, Michio: *See—*
  Torigoe, Makoto; Kohno, Michio; and Suzuki, Akiyoshi, 4,653,903, Cl. 355-53.000.
Kohno, Mitsuo: *See—*
  Fukumitsu, Yasunori, and Kohno, Mitsuo, 4,657,805, Cl. 428-215.000.
Kohno, Osamu: *See—*
  Sadakata, Nobuyuki; Ikeno, Yoshimitsu; Sugimoto, Masaru; and Kohno, Osamu, 4,665,611, Cl. 29-599.000.
Kohno, Takanori, to Copal Company Limited. Control circuit for a programming shutter. 4,710,014, 12-1-87, Cl. 354-427.000.
Kohno, Teruhisa, to Sumitomo Electric Industries, Ltd. Deceleration-balanced type brake pressure control valve assembly. 4,637,661, 1-20-87, Cl. 303-24.00A.
Kohno, Teruhisa; Nokubo, Seiji; and Matsuoka, Akio, to Sumitomo Electric Industries, Ltd. Brake pressure control valve assembly having a bypass function. 4,673,220, 6-16-87, Cl. 303-6.00C.
Kohno, Teruhisa, to Sumitomo Electric Industries, Ltd. Deceleration-balance type brake pressure control valve assembly. 4,688,859, 8-25-87, Cl. 303-6.00C.
Kohno, Teruo, to Victor Company of Japan, Ltd. Camera holder. 4,640,481, 2-3-87, Cl. 248-126.000.
Kohno, Toshihiko: *See—*
  Oka, Kazuyoshi; Katayama, Mitsuhiro; Kohno, Toshihiko; Engstrom, Ulf; and Larssen, Svenn-Erik, 4,663,262, Cl. 430-108.000.
Kohonen, Raimo: *See—*
  Lankinen, Matti; Engdahl, Holger; Kohonen, Raimo; Niskanen, Jukka; and Kosonen, Markku, 4,687,583, Cl. 210-739.000.
  Niiranen, Tapani; Savolainen, Erkki; and Kohonen, Raimo, 4,678,574, Cl. 210-327.000.
Kohora, Tadanao; Ueki, Satoshi; Tachikawa, Mameru; Imai, Chihiro; and Makishima, Tokuo, deceased (Makishima, Nobuko, legal representative), to Toa Nenryo Kogyo Kabushiki Kaisha. Catalyst component for polymerization of olefins. 4,647,550, 3-3-87, Cl. 502-115.000.
Kohout, J. Michael. Aircraft door locking device. 4,666,106, 5-19-87, Cl. 244-129.300.
Kohri, Naomichi, to Victor Company of Japan, Ltd. Tape recorder having an improved system for controlling tape travel and magnetic head movement. 4,638,385, 1-20-87, Cl. 360-96.400.
Kohro, Chihaya: *See—*
  Narita, Yasuhide; Shirai, Noboru; Kohro, Chihaya; and Hosono, Masami, 4,679,861, Cl. 301-37.00P.
Kohs, Dwight W.: *See—*
  Bortolini, Edward J.; Helton, John S.; and Kohs, Dwight W., 4,635,249, Cl. 370-58.000.
Kohsaka, Fusao: *See—*
  Ueda, Toshitsugu; Kohsaka, Fusao; Yamazaki, Daisuke; and Akazawa, Hideo, 4,680,970, Cl. 73-702.000.
Kohsaka, Masanobu; Terano, Hiroshi; Komori, Tadaaki; Iwami, Morita; Yamashita, Michio; Hashimoto, Masashi; Uchida, Itsuo; and Takase, Shigehiro, to Fujisawa Pharmaceutical Co., Ltd. Tetracyclo compounds and a pharmaceutical composition containing the same. 4,645,765, 2-24-87, Cl. 514-233.000.
Kohsaka, Masanobu: *See—*
  Ezaki, Masami; Hashimoto, Seiji; Komori, Tadaaki; Umehara, Kazuyoshi; and Kohsaka, Masanobu, 4,654,211, Cl. 424-116.000.
  Kitaura, Yoshihiko; Nakaguchi, Osamu; Hemmi, Keiji; Aratani, Matsuhiko; Takeno, Hidekazu; Okada, Satoshi; Tanaka, Hirokazu; Hashimoto, Masashi; Kuroda, Yoshio; Iguchi, Eiko; Kohsaka, Masanobu; Aoki, Hatsuo; and Imanaka, Hiroshi, 4,666,890, Cl. 514-18.000.
  Kiyoto, Sumio; Murai, Hidetsugu; Tsurumi, Yasuhisa; Terano, Hiroshi; and Kohsaka, Masanobu, 4,670,259, Cl. 424-118.000.
  Kiyoto, Sumio; Okuhara, Masakuni; Kino, Eiko; Tanaka, Hirokazu; Aoki, Hatsuo; Kohsaka, Masanobu; and Imanaka, Hiroshi, 4,680,178, Cl. 424-122.000.
  Nishikawa, Motoaki; Iwami, Morita; Yoshida, Keizo; and Kohsaka, Masanobu, 4,661,352, Cl. 424-117.000.
  Umehara, Kazuyoshi; Yoshida, Keizo; Tanaka, Hirokazu; Uchida, Itsuo; Kohsaka, Masanobu; and Imanaka, Hiroshi, 4,643,990, Cl. 514-18.000.
Kohsaka, Yoshio, to Kabushiki Kaisha Toshiba. Washing machine. 4,651,542, 3-24-87, Cl. 68-23.00R.
Koht, Lowell; and Shimirak, Gerald L., to Raychem Corporation. Segmented end seal and closure. 4,692,565, 9-8-87, Cl. 174-93.000.
Koht, Lowell L.: *See—*
  Shimirak, Gerald L.; and Koht, Lowell L., 4,704,500, Cl. 174-93.000.
Kohus, Louis M.; and Mariol, John V., to KohusMariol, Inc. Foldable playpen assembly with ease of portability. 4,688,280, 8-25-87, Cl. 5-99.00R.
Kohus, Louis M., to Kohusmariol Inc. Baby feeding bottle assembly. 4,703,863, 11-3-87, Cl. 215-11.100.
KohusMariol, Inc.: *See—*
  Kohus, Louis M.; and Mariol, John V., 4,688,280, Cl. 5-99.00R.
  Kohus, Louis M., 4,703,863, Cl. 215-11.100.
Kohuth, Russell T.: *See—*
  Sampedro, Manuel, 4,692,053, Cl. 403-24.000.
Kohyama, Katsuhisa; Kimura, Tsuneo; Kidera, Teruo; and Kajiwara, Yukio, to Mitsubishi Chemical Industries Ltd. Aqueous dispersion of silicic anhydride and abrasive composition comprising the dispersion. 4,664,679, 5-12-87, Cl. 51-308.000.
Kohyama, Katsuhisa; Miyamoto, Masaaki; Nakanishi, Hidemi; and Koga, Norimichi, to Mitsubishi Chemical Industries Limited. Hydrocarbon terminated polyamide resin and process for producing the same. 4,684,713, 8-4-87, Cl. 528-315.000.
Kohyama, Katsuhisa: *See—*
  Koga, Shinichiro; Kohyama, Katsuhisa; and Sakata, Katsuyuki, 4,661,555, Cl. 524-611.000.
Kohyama, Masaki; Muranaka, Takeshi; Fukui, Kunisuke; and Kashiwa, Norio, to Mitsui Petrochemical Industries, Ltd. Crystalline random propylene copolymer composition and composite laminate comprising said composition. 4,642,269, 2-10-87, Cl. 428-516.000.
Kohyama, Masaki: *See—*
  Kashiwa, Norio; Kioka, Mamoru; Kohyama, Masaki; and Ishiyama, Masanobu, 4,668,753, Cl. 526-348.000.
Kohyama, Mikihiro, to Honda Giken Kogyo Kabushiki Kaisha. Scooter type motorcycle. 4,697,664, 10-6-87, Cl. 180-226.000.
Kohyama, Mitsuaki; Kasai, Toshihiro; Ishida, Haruhiko; and Shimazaki, Takashi, to Kabushiki Kaisha Toshiba. Electrophotographic device. 4,645,330, 2-24-87, Cl. 355-14.00R.
Kohyama, Mitsuaki; Ishida, Haruhiko; Kasai, Toshihiro; and Osawa, Shigenobu, to Tokyo Shibaura Denki Kabushiki Kaisha. Electrophotographic method and apparatus using alternating current corona charging. 4,647,181, 3-3-87, Cl. 355-4.000.
Kohyama, Mitsuaki, to Kabushiki Kaisha Toshiba. Developing apparatus. 4,653,426, 3-31-87, Cl. 118-651.000.
Kohyama, Mitsuaki, to Tokyo Shibaura Denki Kabushiki Kaisha. Developing apparatus. 4,671,641, 6-9-87, Cl. 355-3.0DD.
Kohyama, Mitsuaki, to Kabushiki Kaisha Toshiba. Developing apparatus. 4,674,441, 6-23-87, Cl. 118-707.000.
Kohyama, Mitsuaki, to Kabushiki Kaisha Toshiba. Developing device. 4,686,934, 8-18-87, Cl. 118-651.000.
Kohyama, Mitsuaki, to Kabushiki Kaisha Toshiba. Developing apparatus. 4,688,923, 8-25-87, Cl. 355-3.0DD.
Kohzato, Yasuo: *See—*
  Sugiura, Susumu; and Kohzato, Yasuo, 4,683,492, Cl. 358-80.000.
Koibuchi, Shigeru; Isobe, Asao; and Makino, Daisuke, to Hitachi Chemical Co., Ltd.; and Hitachi, Ltd. Photosensitive composition with 4-azido-2'-methoxychalcone. 4,698,291, 10-6-87, Cl. 430-196.000.
Koichi Sakurai: *See—*
  Kondo, Tatsuhei; Ito, Kaname; Ikeda, Shoichiro; Umeno, Masayoshi; and Ichikawa, Kenji, 4,673,391, Cl. 604-141.000.
Koichi, Yasushi: *See—*
  Murai, Kazuo; and Koichi, Yasushi, 4,639,117, Cl. 355-14.00R.
Koide, Akio: *See—*
  Hanyu, Susumu; and Koide, Akio, 4,643,120, Cl. 112-466.000.
Koide, Fuminori: *See—*
  Yoshino, Masaki; Oka, Kozo; and Koide, Fuminori, 4,634,257, Cl. 355-3.0CH.
Koide, Hideo: *See—*
  Iwanaka, Masaya, and Kajiwara, Seiji, 4,637,489, Cl. 181-160.000.
Koide, Hiroshi: *See—*
  Konishi, Yoshimune; Hobo, Nobuhito; Tsuzuki, Yoshihiko; Kameoka, Narutoshi; Miyaki, Masahiko; and Koide, Hiroshi, 4,653,454, Cl. 123-506.000.
Koide, Shikuo: *See—*
  Tsuji, Seiichi; Ogawara, Kazuhiro; Koide, Shikuo; and Mizobuchi, Shotaro, 4,664,595, Cl. 415-170.00R.

Koide, Teruhiko, to Kabushiki Kaisha Tokai Rika Denki Seisakusho Webbing guide apparatus. 4,645,234, 2-24-87, Cl. 280-808.000.

Koide, Teruhiko, to Kabushiki Kaisha Tokai-rika-denki-seisakusho. Webbing lock apparatus. 4,667,981, 5-26-87, Cl. 280-806.000.

Koide, Teruhiko: *See*—
- Nishimura, Yuji; and Koide, Teruhiko, 4,637,630, Cl. 280-807.000.

Koie, Hiroshi: *See*—
- Ogaki, Hirokazu; Funahashi, Yasuhiro; Koie, Hiroshi; and Kurachi, Tomoko, 4,674,055, Cl. 364-479.000.
- Suzuki, Makoto; and Koie, Hiroshi, 4,651,300, Cl. 364-900.000.

Koike, Akihiko; and Umeda, Tadashi, to Honda Giken Kogyo Kabushiki Kaisha. Fuel supply control system for internal combustion engines, capable of preventing vapor lock. 4,635,606, 1-13-87, Cl. 123-463.000.

Koike, Akihiko: *See*—
- Koike, Yuzuru; Koike, Akihiko; and Ueno, Masayuki, 4,640,244, Cl. 123-339.000.

Koike, Akira, to Daishoku Kako Kabushiki Kaisha. Combined knife and slicer. 4,638,561, 1-27-87, Cl. 30-284.000.

Koike, Eishi, to Ozen Corporation. Simplified sound reproducing device capable of reproducing a plurality of recorded items. 4,648,086, 3-3-87, Cl. 369-65.000.

Koike, Eishi, to Ozen Corporation. Simplified sound reproducing device having a plurality of external shaft corresponding to the recorded items. 4,670,867, 6-2-87, Cl. 369-65.000.

Koike, Eishi, to Ozen Corporation. Simplified sound reproducing device having a plurality of external shaft corresponding to the recorded items. 4,670,868, 6-2-87, Cl. 369-65.000.

Koike, Eishi, to Ozen Corporation. Record disc replacing means. 4,694,444, 9-15-87, Cl. 369-65.000.

Koike, Eishi, to Ozen Corporation. Record disc replacing means for a selective playing type sound reproducing device. 4,694,445, 9-15-87, Cl. 369-65.000.

Koike, Eishi, to Ozen Corporation. Simplified sound reproducing device of random selecting type. 4,694,446, 9-15-87, Cl. 369-67.000.

Koike, Eishi, to Ozen Corporation. Starting device for a toy motor using an ultrasonic wave signal. 4,701,681, 10-20-87, Cl. 318-16.000.

Koike, Eishi, to Ozen Corporation. Electric equipment driving circuit. 4,705,994, 11-10-87, Cl. 318-16.000.

Koike, Hideharu, to Kabushiki Kaisha Toshiba. High speed CMOS FET full-adder circuit. 4,651,296, 3-17-87, Cl. 364-784.000.

Koike, Hideharu, to Kabushiki Kaisha Toshiba. Low pass filter formed in an integrated circuit. 4,716,318, 12-29-87, Cl. 307-520.000.

Koike, Hidemi: *See*—
- Tokiguchi, Katsumi; Koike, Hidemi; Sakudo, Noriyuki; Okada, Osami; Ninomiya, Ken; and Ozasa, Susumu, 4,658,143, Cl. 250-423.00R.

Koike, Hiroshi; Katada, Hiroshi; and Yoneda, Hiroshi, to Hitachi, Ltd., and Hitachi Automotive Engineering Co., Ltd. Ultrasonic wave type fuel atomizing apparatus for internal combustion engine. 4,715,353, 12-29-87, Cl. 123-590.000.

Koike, Hiroyuki: *See*—
- Tomita, Kuniyuki; Shimoji, Yasuo; Kumakura, Seiji; Koike, Hiroyuki; Iwata, Nobuyoshi; and Morisawa, Yasuhiro, 4,716,162, Cl. 514-234.000.
- Yanagisawa, Hiroaki; Ishihara, Sadao; Ando, Akiko; Kanazaki, Takuro; Koike, Hiroyuki; and Tsujita, Yoshio, 4,699,905, Cl. 514-211.000.

Koike, Ichiro: *See*—
- Ohe, Takeshi; Fujii, Tadaaki; and Koike, Ichiro, 4,645,025, Cl. 180-79.100.
- Ohe, Takeshi; Koike, Ichiro; and Konishi, Hideo, 4,666,011, Cl. 180-79.100.
- Suzuki, Yoshio; Ohe, Takeshi; and Koike, Ichiro, 4,681,182, Cl. 180-79.100.

Koike, Kazuo, to Mitsubishi Denki Kabushiki Kaisha. Supporting means for supporting a magnetic transducer for a double surface type flexible disk apparatus. 4,709,286, 11-24-87, Cl. 360-105.000.

Koike, Kazuo: *See*—
- Sakamoto, Yuzo; and Koike, Kazuo, 4,716,479, Cl. 360-105.000.

Koike, Kazuyoshi; and Tahara, Yasuteru, to Mitsubishi Rayon Co., Ltd. Inspection apparatus for optical fiber assembly. 4,639,130, 1-27-87, Cl. 356-73.100.

Koike, Kazuyoshi: *See*—
- Tahara, Yasuteru; and Koike, Kazuyoshi, 4,711,121, Cl. 73-37.700.

Koike, Kazuyuki; and Hayakawa, Kazunobu, to Hitachi, Ltd. Scanning electron microscope. 4,658,138, 4-14-87, Cl. 250-310.000.

Koike, Kazuyuki; Tamagawa, Shigehisa; and Fuchizawa, Tetsuro, to Fuji Photo Film Co., Ltd. Heat-sensitive recording paper. 4,686,546, 8-11-87, Cl. 503-200.000.

Koike, Keiichi: *See*—
- Shimaguchi, Takashi; Natori, Tatsuo; Watanabe, Akihide; and Koike, Keiichi, 4,659,526, Cl. 264-86.000.

Koike, Keiji: *See*—
- Furuya, Tai; and Koike, Keiji, 4,645,419, Cl. 415-210.000.

Koike, Kengo: *See*—
- Nakagawa, Taizo; Tanaka, Eiichi; Koike, Kengo; Yoshida, Hiromi; and Yoshida, Hiroshi, 4,659,722, Cl. 514-332.000.
- Yoshida, Hiroshi; Konishi, Kenji; Koike, Kengo; Nakagawa, Taizo; Shimano, Shizuo; and Mochizuki, Seiji, 4,690,934, Cl. 514-354.000.

Koike, Kihachiro: *See*—
- Nakazawa, Akira; Kikuta, Shigeru; Koike, Kihachiro; Matsuoka, Kensaku; and Nishino, Yoshimitsu, 4,681,388, Cl. 439-449.000.
- Nakazawa, Akira; Kikuta, Shigeru; Koike, Kihachiro; Matsuoka, Kensaku; and Nishino, Yoshimitsu, 4,681,389, Cl. 439-557.000.
- Nakazawa, Akira; Kikuta, Shigeru; Koike, Kihachiro; Matsuoka, Kensaku; and Nishino, Yoshimitsu, 4,688,871, Cl. 439-357.000.
- Nishino, Yoshimitsu; Tsuruda, Wataru; Koike, Kihachiro; and Matsuoka, Kensaku, 4,678,256, Cl. 439-347.000.

Koike, Kiichi; Suzuki, Yoshie; Yoshinaka, Minoru; Okabe, Mitsuo; and Tanaka, Makoto, to Matsushita Electric Industrial Co., Ltd.; and Dainippon Printing Co., Ltd. Enclosed lead storage battery and process for producing the same. 4,664,994, 5-12-87, Cl. 429-163.000.

Koike, Kiichi: *See*—
- Suzuki, Yoshie; Koike, Kiichi; Kadowaki, Minoru; and Yoshinaka, Minoru, 4,659,636, Cl. 429-54.000.

Koike, Kouichi: *See*—
- Takagi, Hiroshi; Koike, Kouichi; and Takeuchi, Hiroyuki, 4,654,796, Cl. 364-414.000.

Koike, Michiro: *See*—
- Kubota, Atsushi; Taniishi, Shinnosuke; Sasaki, Shinichi; Kimura, Akiyoshi; and Koike, Michiro, 4,708,455, Cl. 355-3.00R.

Koike, Mikio; Goto, Kenzo; and Hara, Kazumasa, to Janome Sewing Machine Co. Ltd. Thread loop taker device of a zigzag sewing machine. 4,662,292, 5-5-87, Cl. 112-184.000.

Koike, Mikio; and Goto, Kenzo, to Janome Sewing Machine Co., Ltd. Thread loop taker device of a zigzag sewing machine. 4,674,423, 6-23-87, Cl. 112-184.000.

Koike, Mikio: *See*—
- Eguchi, Yasukata; Hanyu, Susumu; Hara, Kazumasa; and Koike, Mikio, 4,700,644, Cl. 112-255.000.
- Hanyu, Susumu; Hara, Kazumasa; Sasano, Akiyoshi; and Koike, Mikio, 4,638,751, Cl. 112-254.000.
- Hanyu, Susumu; Hara, Kazumasa; Sasano, Akiyoshi; and Koike, Mikio, 4,693,193, Cl. 112-121.110.
- Hanyu, Susumu; Kasuga, Noburu; Hara, Kazumasa; and Koike, Mikio, 4,702,185, Cl. 112-254.000.
- Hara, Kazumasa; Koike, Mikio; and Sasano, Akiyoshi, 4,690,083, Cl. 112-254.000.
- Hara, Kazumasa; Sasano, Akiyoshi; and Koike, Mikio, 4,704,975, Cl. 112-238.000.

Koike, Mitsuhiro; and Yakoh, Nobuaki, to Mitsubishi Denki Kabushiki Kaisha. Method of detecting flaws in thick wall steel pipe with ultrasonic angle beam technique. 4,679,437, 7-14-87, Cl. 73-622.000.

Koike, Mitsuhiro; Saijo, Yoshihiro; and Kume, Tadaaki, to Shikoku Kakooki Co., Ltd. Blank feeder for packaging machine. 4,708,707, 11-24-87, Cl. 493-313.000.

Koike, Mitsuru: *See*—
- Toyama, Tadao; Kobayashi, Kesanao; Koike, Mitsuru; and Tamoto, Koji, 4,687,727, Cl. 430-175.000.

Koike, Nobuhiko, to NEC Corporation. Router unit and routing network for determining an output port by detecting a part of an input packet. 4,638,475, 1-20-87, Cl. 370-60.000.

Koike, Norio; Nakai, Masaaki; Ando, Haruhisa; Ozaki, Toshifumi; Ohba, Shinya; Ono, Hideyuki; and Akiyama, Toshiyuki, to Hitachi, Ltd. Charge transfer type solid-state imaging device. 4,689,687, 8-25-87, Cl. 358-213.240.

Koike, Norio: *See*—
- Akiyama, Toshiyuki; Koike, Norio; Ito, Kenji; Ogino, Takeshi; and Nagahara, Shuusaku, 4,675,887, Cl. 377-58.000.
- Itou, Takeo; Koike, Norio; and Sagow, Seiji, 4,651,054, Cl. 313-468.000.
- Takenaka, Shigeo; Koike, Norio; Itou, Takeo; and Matsuda, Hidemi, 4,692,659, Cl. 313-402.000.

Koike, Renji; and Hattori, Masayoshi, to Aisin Seiki Kabushiki Kaisha. Cyclic sewing machine. 4,646,664, 3-3-87, Cl. 112-67.000.

Koike Sanso Kogyo Co. Ltd.: *See*—
- Sugisaku, Noritsugu; and Iizuka, Tetsuya, 4,664,621, Cl. 431-346.000.

Koike, Seiji: *See*—
- Hirosaki, Yukihiro; Koike, Seiji; and Hamada, Motonobu, 4,666,319, Cl. 400-120.000.
- Hirosaki, Yukihiro; Koike, Seiji; Hamada, Motonobu; Ohhata, Takahiko; Inoue, Yasuo; Karibe, Haruyuki; and Hama, Hideki, 4,671,844, Cl. 156-542.000.

Koike, Shigeyoshi: *See*—
- Shirai, Kazunari; Kamioka, Hajime; and Koike, Shigeyoshi, 4,672,740, Cl. 29-590.000.

Koike, Shinichi: *See*—
- Miyazaki, Tomohiro; Koyama, Tetsu; and Koike, Shinichi, 4,700,364, Cl. 375-62.000.

Koike, Shoji; and Iwata, Kazuo, to Canon Kabushiki Kaisha. Recording liquid. 4,689,078, 8-25-87, Cl. 106-22.000.

Koike, Shoji: *See*—
- Iwata, Kazuo; and Koike, Shoji, 4,702,742, Cl. 8-495.000.
- Kobayashi, Masatsune; Eida, Tsuyoshi; Koike, Shoji; and Nakousai, Keiko, 4,661,158, Cl. 106-22.000.

Koike, Susumu: *See*—
- Kawabata, Toshiharu; Koike, Susumu; Matsuda, Toshio; and Iwasa, Hitoo, 4,671,829, Cl. 148-171.000.

Koike, Tadao, to Ricoh Company, Ltd. Duplex copying method. 4,650,313, 3-17-87, Cl. 355-3.0SH.

Koike, Takaaki, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Turbine housing of turbocharger. 4,693,668, 9-15-87, Cl. 415-138.000.

Koike, Takahisa: *See*—
- Ito, Tadashi; Jinnai, Koichiro; Koike, Takahisa; Murai, Toshiharu; Fukazawa, Takao; and Ishima, Kazumi, 4,642,653, Cl. 346-1.100.

Koike, Tatsuhiro; and Masubuchi, Takamichi, to Nippon Gakki Seizo Kabushiki Kaisha. Operating panel device in electronic musical instrument. 4,633,752, 1-6-87, Cl. 84-1.030.

- Koike, Tetsuya: *See—*
  - Morita, Isamu; Arai, Katsuyoshi; and Koike, Tetsuya, 4,651,980, Cl. 267-140.100.
- Koike, Tsutomu: *See—*
  - Kanamaru, Hisanobu; Aoyama, Susumu; and Koike, Tsutomu, 4,653,305, Cl. 72-343.000.
- Koike, Yoshiharu: *See—*
  - Endo, Juro; Murakami, Shiro; Takada, Yukiharu; and Koike, Yoshiharu, 4,709,284, Cl. 360-103.000.
  - Yamada, Hirohide; Sakakibara, Masahiko; and Koike, Yoshiharu, 4,681,813, Cl. 428-450.000.
- Koike, Yuzuru; Koike, Akihiko; and Ueno, Masayuki, to Honda Giken Kogyo Kabushiki Kaisha. Idling speed feedback control method for internal combustion engines. 4,640,244, 2-3-87, Cl. 123-339.000.
- Koike, Yuzuru: *See—*
  - Yamato, Akihiro; Koike, Yuzuru; and Futa, Kyozo, 4,681,075, Cl. 123-339.000.
- Koikeda, Minoru: *See—*
  - Imai, Tetsuya; Fujita, Hiroshi; Koikeda, Minoru; and Suzuki, Takashi, 4,698,449, Cl. 585-469.000.
- Koinuma, Hiroyuki, to Kabushiki Kaisha Toshiba. Schmitt circuit with MIS field effect transistors. 4,687,955, 8-18-87, Cl. 307-290.000.
- Koinuma, Hiroyuki: *See—*
  - Magome, Koichi; Toda, Haruki; Koinuma, Hiroyuki; Sahara, Hiroshi; Suzuki, Kiminobu; Ohshima, Shigeo; and Komatsu, Kenji, 4,678,934, Cl. 307-279.000.
- Koinuma, Nobuyuki: *See—*
  - Nakamura, Hitoshi; Machida, Hazime; Tanaka, Motoharu; Watada Atsuyuki; Omi, Fumiya, and Koinuma, Nobuyuki, 4,670,322, Cl. 428-172.000.
  - Nakamura, Hitoshi; Machida, Hazime; Tanaka, Motoharu; Watada, Atsuyuki; Omi, Fumiya; and Koinuma, Nobuyuki, 4,670,323, Cl. 428-172.000.
- Koinuma, Yutaka: *See—*
  - Sonoda, Toshinari; and Koinuma, Yutaka, 4,649,874, Cl. 123-90.360.
- Koishi, Hidehiko: *See—*
  - Yamada, Yasuharu; Komoto, Tadashi; and Koishi, Hidehiko, 4,672,401, Cl. 503-208.000.
- Koishi, Kenji; Matsuo, Tamotsu; and Satoh, Isao, to Matsushita Electric Industrial Co., Ltd. Optical recording and reproducing apparatus. 4,688,203, 8-18-87, Cl. 369-48.000.
- Koishi, Kenji; and Matsuo, Tamotsu, to Matsushita Electric Industrial Co. Ltd. Semiconductor laser drive circuit with peak detection and control. 4,701,609, 10-20-87, Cl. 250-205.000.
- Koishi, Kenji: *See—*
  - Ohara, Shunji; Yoshida, Tomio; Satoh, Isao; and Koishi, Kenji, 4,689,780, Cl. 369-44.000.
- Koishi, Masaru; Shinohara, Haruo; and Takayanagi, Shinji, to Honda Giken Kogyo Kabushiki Kaisha. Wheel assembly for vehicle. 4,679,860, 7-14-87, Cl. 301-9.0DN.
- Koishi, Masaru: *See—*
  - Toyoda, Hidetoshi; and Koishi, Masaru, 4,667,785, Cl. 192-13.00A.
- Koishi, Musubu: *See—*
  - Tsuchiya, Yutaka; Koishi, Musubu; and Takeshima, Akira, 4,645,918, Cl. 250-213.0VT.
  - Tsuchiya, Yutaka; Koishi, Musubu; and Takeshima, Akira, 4,694,154, Cl. 250-213.0VT.
- Koishi, Toshio; Tanaka, Isao; Yasumura, Takashi; and Nishikawa, Yukitoshi, to Central Glass Company, Limited. Optical fiber having polymethacrylate core and fluoro-copolymer cladding. 4,687,295, 8-18-87, Cl. 350-96.340.
- Koishi, Toshio: *See—*
  - Yasumura, Takashi; Koishi, Toshio; and Tanaka, Isao, 4,642,326, Cl. 525-153.000.
- Koistinen, Paul A. T.; and Hamalainen, Risto J., to Oy Tampella AB. Mechanism for preliminary anchoring of a wire rope bolt. 4,698,994, 10-13-87, Cl. 72-145.000.
- Koisuka, Mikio; and Aoki, Hisao, to Sanden Corporation. Serpentine-type heat exchanger having fin plates with louvers. 4,676,304, 6-30-87, Cl. 165-146.000.
- Koisuka, Mikio; and Aoki, Hisao, to Sanden Corporation. Method for producing a heat exchanger having a flat tube and header pipes. 4,678,112, 7-7-87, Cl. 228-138.000.
- Koitabashi, Takatoshi, to Sanden Corporation. Method of manufacturing a magnetic rotatable member for an electromagnetic clutch. 4,669,295, 6-2-87, Cl. 72-340.000.
- Koitabashi, Takatoshi, to Sanden Corporation. Electromagnetic clutch with an improved magnetic rotatable member. 4,694,945, 9-22-87, Cl. 192-84.00C.
- Koitabashi, Takatoshi, to Sanden Corporation. Electromagnetic clutch with spiral plated surfaces to improve frictional contact. 4,705,973, 11-10-87, Cl. 310-78.000.
- Koitabashi, Takeo: *See—*
  - Suzuki, Akio; Koitabashi, Takeo; Iwata, Masatoshi; Yamaguchi, Hisashi; and Matsuzaka, Syoji, 4,680,252, Cl. 430-364.000.
- Koito Manufacturing Co., Ltd.: *See—*
  - Saijo, Akira; Matsune, Fusakiyo; Fujino, Yuji; and Watanabe, Shinji, 4,689,725, Cl. 362-66.000.
- Koito Seisakusho Co., Ltd.: *See—*
  - Arima, Kenji, 4,652,979, Cl. 362-80.000.
  - Fujiyasu, Hiroshi; Kurosawa, Yoshiki; and Kaneko, Masaru, 4,662,981, Cl. 156-610.000.
  - Fujiyasu, Hiroshi; Kurosawa, Yoshiki; and Kaneko, Masaru, 4,668,480, Cl. 422-247.000.
  - Fuke, Akira; Tokita, Yasuhiro; and Masuda, Katsuhiko, 4,701,925, Cl. 372-38.000.
  - Fuke, Akira; Tokita, Yasuhiro; and Masuda, Katsuhiko, 4,710,938, Cl. 372-56.000.
  - Minobe, Shinichi; and Ueda, Tatsuo, 4,707,017, Cl. 296-78.100.
  - Miyauchi, Shizuya; Suzuki, Takashi; Minobe, Shinichi; and Soga, Shigeyuki, 4,656,780, Cl. 49-348.000.
  - Miyazawa, Kenji, 4,639,839, Cl. 362-64.000.
  - Miyazawa, Kenji; and Kamimura, Touichi, 4,663,696, Cl. 362-80.000.
  - Uchida, Kihachirou, 4,695,259, Cl. 439-271.000.
- Koivula, Antti: *See—*
  - Raninen, Jaakko; Savioja, Heikki; Koivula, Antti; Saariaho, Jorma; Sihto, Reijo; and Valimaki, Yrjo, 4,641,466, Cl. 52-171.000.
- Koivurinta, Juha A., to Suomen Sokeri Oy. Binder-diluent composition and method. 4,698,101, 10-6-87, Cl. 127-30.000.
- Koiwai, Sakae; Asaoka, Keizo; Shirasawa, Katsuhiko; Watanabe, Hiroyuki; and Honda, Junichi, to Japan Solar Energy Co., Ltd. Solar cell manufacturing method. 4,640,001, 2-3-87, Cl. 29-572.000.
- Koiwai, Tamotsu, to Olympus Optical Co., Ltd. Zoom lens barrel. 4,634,250, 1-6-87, Cl. 354-195.110.
- Koizumi, Fumio; Kasuya, Takahira; and Takahashi, Jiro, to Konishiroku Photo Industry Co., Ltd. Toner for developing electrostatic latent image. 4,693,952, 9-15-87, Cl. 430-109.000.
- Koizumi, Haruyuki; and Omae, Koichi, to Omron Tateisi Electronics Co. Printed wiring board. 4,658,104, 4-14-87, Cl. 200-159.00B.
- Koizumi, Haruyuki; and Omae, Koichi, to Omron Tateisi Electronics Co. Keyboard switch. 4,678,880, 7-7-87, Cl. 200-340.000.
- Koizumi, Haruyuki: *See—*
  - Kitao, Zenichi; and Koizumi, Haruyuki, 4,647,742, Cl. 200-159.00A.
- Koizumi, Hideharu: *See—*
  - Ohkuma, Kuniaki; Sakuma, Kazuyoshi; Miyao, Hisao; Yoshimura, Shinichi; Koizumi, Hideharu; and Miwa, Yoshitake, 4,688,978, Cl. 414-224.000.
  - Ohkuma, Kuniaki; Nakagawa, Reiji; Miyao, Hisao; Yoshimura, Shinichi; Suzuki, Toshio; Hayashi, Toyoaki; Arakawa, Masayasu; and Koizumi, Hideharu, 4,714,397, Cl. 414-222.000.
- Koizumi, Hideo: *See—*
  - Suzuki, Tadashi; Koizumi, Hideo; Takeyama, Jun; and Tsukui, Kunitsugu, 4,671,696, Cl. 403-265.000.
- Koizumi, Hiroshi; Kijima, Masatsugu; and Tanaka, Sinya, to Tokyo Kagaku Kikai Kabushiki Kaisha. Laser treatment apparatus. 4,692,924, 9-8-87, Cl. 372-30.000.
- Koizumi, Hiroshi, to Mitutoyo Mfg. Co., Ltd. Electronic measuring device. 4,711,034, 12-8-87, Cl. 33-172.00E.
- Koizumi, Junji; Sasaki, Kouji; and Naito, Junichiro, to Toyoda Gosei Co., Ltd. Polyamide resin composition. 4,707,528, 11-17-87, Cl. 525-432.000.
- Koizumi, Junji: *See—*
  - Sasaki, Kouji; and Koizumi, Junji, 4,661,563, Cl. 525-179.000.
- Koizumi, Katuo: *See—*
  - Innami, Tatsuo; Koizumi, Katuo; Imahashi, Toshiaki; and Matsumoto, Kihachiro, 4,669,190, Cl. 30-273.000.
- Koizumi, Kiyohide: *See—*
  - Hamada, Toyohide; Sugimoto, Koichi; Koizumi, Kiyohide; and Arai, Shinichi, 4,674,947, Cl. 414-735.000.
- Koizumi, Koichi: *See—*
  - Kimura, Sosaku; Hatsuse, Toshikazu; Shimizu, Masami; Miyashita, Masakazu; Yoshioka, Junichi; Kanai, Akira; and Koizumi, Koichi, 4,656,951, Cl. 108-20.000.
- Koizumi, Koji: *See—*
  - Sato, Yusho; and Koizumi, Koji, 4,704,704, Cl. 364-900.000.
- Koizumi, Kyogo: *See—*
  - Inoue, Kaoru; Miyagawa, Hiroharu; Itoh, Masayoshi; Abe, Tomohiro; Koizumi, Kyogo; and Yanagawa, Noriyuki, 4,667,048, Cl. 556-469.000.
- Koizumi, Masahiro: *See—*
  - Terada, Kanechiyo; Saga, Toshihiro; and Koizumi, Masahiro, 4,699,115, Cl. 123-604.000.
- Koizumi, Mitsuyoshi, to Hitachi, Ltd. Method and apparatus for inspecting surface defects on the magnetic disk file memories. 4,674,875, 6-23-87, Cl. 356-237.000.
- Koizumi, Mitsuyoshi: *See—*
  - Oshida, Yoshitada; Shiba, Masataka; Nakata, Toshihiko; Koizumi, Mitsuyoshi; and Nakashima, Naoto, 4,668,089, Cl. 356-152.000.
  - Shiba, Masataka; Uto, Sachio; and Koizumi, Mitsuyoshi, 4,669,875, Cl. 356-237.000.
- Koizumi, Norihiko: *See—*
  - Leng, Svay; Saitoh, Hiroyuki; Inui, Toshiharu; Koizumi, Norihiko; Moriguchi, Haruhiko; Omori, Takashi; Kurata, Masami; and Katoh, Yasuo, 4,638,372, Cl. 358-296.000.
- Koizumi, Satoru; Teshima, Daisuke; and Katayama, Yoshio, to Sharp Kabushiki Kaisha. Automatic cassette tape recorder stop mechanism. 4,698,704, 10-6-87, Cl. 360-74.100.
- Koizumi, Susumu: *See—*
  - Watanabe, Seiji; Horimoto, Teiji, and Koizumi, Susumu, 4,714,155, Cl. 198-619.000.
- Koizumi, Tadashi: *See—*
  - Iwata, Takashi; Yokota, Seiji; Inoue, Yoshiaki; and Koizumi, Tadashi, 4,665,296, Cl. 219-121.0PR.
- Koizumi, Tatsunori: *See—*
  - Tsukada, Tsutomu; Ashaishi, Ishao; Koizumi, Tatsunori; and Ikeda, Kouji, 4,655,800, Cl. 55-195.000.
- Koizumi, Tatsuya: *See—*
  - Murase, Takashi, and Koizumi, Tatsuya, 4,675,783, Cl. 361-385.000.

- Koizumi, Toru: *See—*
  - Takeuchi, Yoshio; Koizumi, Toru; and Hori, Kozo, 4,713,469, Cl. 560-17.000.
- Koizumi, Toshiaki, to Pioneer Electronic Corporation. Front loading disk player with improved disk sensor positioning. 4,695,995, 9-22-87, Cl. 369-75.200.
- Koizumi, Yasuhiro; Torisawa, Soichi; Gartner, Walter; Dietz, Gudrun; and Retschke, Wolfgang, to Hitachi, Ltd.; and Veb Carl Zeiss Jena. DDR. Exposure of uniform fine pattern on photoresist. 4,704,348, 11-3-87, Cl. 430-327.000.
- Koizumi, Yohsuke: *See—*
  - Ai, Hideo; Koizumi, Yohsuke; and Tsuruta, Naohiro, 4,667,006, Cl. 526-285.000.
- Koizumi, Yuichiro; Nojima, Masaki; and Shimiya, Keiji, to Canon Kabushiki Kaisha; Toppan Printing Co. Ltd.; and Kasei Optonix, Ltd. Fluorescent screen having a variation in sensitivity and method of manufacturing the same. 4,701,622, 10-20-87, Cl. 250-486.100.
- Koizumi, Yukio; and Miyazawa, Hiroshi, to Kabushiki Kaisha Kobe Seiko Sho. Method for stretching and folding extension jib in wheeled type crane. 4,658,972, 4-21-87, Cl. 212-270.000.
- Koizumi, Yutaka; Furuta, Hideya; Sakai, Yoshihiro; Mamizuka, Mitsuru; Adachi, Tsukasa; Ikeda, Itsuo; and Sakai, Katsuo, to Ricoh Company, Ltd. Method of and apparatus for producing duplicates in color. 4,664,501, 5-12-87, Cl. 355-4.000.
- Koizumi, Yutaka: *See—*
  - Furuta, Hideya; Koizumi, Yutaka; Mamizuka, Mitsuru; and Sakai, Yoshihiro, 4,690,542, Cl. 355-4.000.
  - Sakai, Yoshihiro; Koizumi, Yutaka; Mamizuka, Mitsuru; and Furuta, Hideya, 4,662,739, Cl. 355-14.00R.
  - Uchibori, Junichi; Koizumi, Yutaka; and Ryu, Toshihiko, 4,675,619, Cl. 332-31.00R.
- Kojicic, Bozidar, deceased; and by Kojicic, Djurdjina, legal representative. Double walled screen-filter with perforated joints. 4,649,996, 3-17-87, Cl. 166-228.000.
- Kojicic, Djurdjina, legal representative: *See—*
  - Kojicic, Bozidar, deceased; and Kojicic, Djurdjina, legal representative, 4,649,996, Cl. 166-228.000.
- Kojima, Akikazu: *See—*
  - Kamiya, Sigeru; Kojima, Akikazu; and Sakakibara, Yasuyuki, 4,685,290, Cl. 60-274.000.
- Kojima, Akinori, to Sanshin Kogyo Kabushiki Kaisha. Built-in tank containing lubricant or the like for outboard motors. 4,673,360, 6-16-87, Cl. 440-88.000.
- Kojima, Akio: *See—*
  - Yoshikawa, Masao; Kojima, Akio; Suzuki, Tetsuro; and Sasaki, Masaomi, 4,672,149, Cl. 136-263.000.
- Kojima, Akira: *See—*
  - Mikuniya, Kunio; and Kojima, Akira, 4,691,963, Cl. 297-195.000.
- Kojima, Atsushi: *See—*
  - Saruhashi, Kazuo; Ara, Masato; Suzuki, Takanori; Saito, Gunji; and Kojima, Atsushi, 4,679,382, Cl. 56-10.100.
- Kojima, Fumitoshi; and Hatanaka, Masahiko, to Kabushiki Kaisha Toshiba. Correction circuit for a static magnetic field of an NMR apparatus and NMR apparatus for utilizing the same. 4,644,473, 2-17-87, Cl. 364-414.000.
- Kojima, Fumitoshi; and Mitomi, Mitchio, to Kabushiki Kaisha Toshiba. Field gradient correction apparatus for compensating static field inhomogeneities in NMR imaging system. 4,684,893, 8-4-87, Cl. 324-312.000.
- Kojima, Gen: *See—*
  - Wachi, Hiroshi; Kaya, Seitoku; and Kojima, Gen, 4,645,799, Cl. 525-199.000.
  - Yamabe, Masaaki; Kodama, Shun-ichi; and Kojima, Gen, 4,654,394, Cl. 526-247.000.
- Kojima, Haruo; and Akasaki, Hidehiko, to Fujitsu Limited. Method for producing a package for a semiconductor device. 4,710,250, 12-1-87, Cl. 156-89.000.
- Kojima, Hideo, to Haruchika Precision Company, Ltd. Automatic lens grinding apparatus. 4,662,119, 5-5-87, Cl. 51-55.000.
- Kojima, Hiroshi: *See—*
  - Dan, Takuya; Orikawa, Michihiro; and Kojima, Hiroshi, 4,660,812, Cl. 267-140.100.
  - Nakagima, Masashi; Kojima, Hiroshi; Matsui, Tatsuro; and Dokoshi, Noriaki, 4,698,407, Cl. 528-14.000.
  - Shibata, Junichi; and Kojima, Hiroshi, 4,641,116, Cl. 333-204.000.
- Kojima, Hirotaka: *See—*
  - Ooe, Akihiko; Imaiida, Tetsuo; Uchida, Teruyoshi; and Kojima, Hirotaka, 4,690,147, Cl. 128-635.000.
  - Uchida, Teruyoshi; Yamamori, Hisayoshi; Kojima, Hirotaka; and Tashita, Junichi, 4,672,970, Cl. 128-635.000.
- Kojima, Hitoshi: *See—*
  - Ikegami, Ryoichi; and Kojima, Hitoshi, 4,703,154, Cl. 219-345.000.
- Kojima, Junpei: *See—*
  - Shiga, Akinobu; Sasaki, Toshio; and Kojima, Junpei, 4,645,808, Cl. 526-119.000.
- Kojima, Katsumi; and Ichishita, Yuzo, to Nippon Air Brake Co., Ltd. Air dryer unit. 4,655,801, 4-7-87, Cl. 55-218.000.
- Kojima, Katsumi, to Nippon Air Brake Co., Ltd. Air dryer device. 4,673,419, 6-16-87, Cl. 55-163.000.
- Kojima, Katsutoshi: *See—*
  - Kurosaki, Tomihiro; Wakatsuki, Junya; Furugaki, Hisakazu; and Kojima, Katsutoshi, 4,670,575, Cl. 558-146.000.
- Kojima, Kazuhisa: *See—*
  - Shinozaki, Masatoshi; Matsumoto, Yoshihiro; Aoyagi, Yoshiki; and Kojima, Kazuhisa, 4,678,707, Cl. 428-323.000.
- Kojima, Keiji; and Torii, Shunichi, to Hitachi, Ltd. Method for processing a data base. 4,644,471, 2-17-87, Cl. 364-300.000.
- Kojima, Kenji, to Mitsubishi Denki Kabushiki Kaisha. Signal discriminating apparatus for extracting component signals from a composite signal. 4,706,034, 11-10-87, Cl. 328-151.000.
- Kojima, Kennosuke: *See—*
  - Aoki, Junji; and Kojima, Kennosuke, 4,662,755, Cl. 356-414.000.
- Kojima, Koichi; Jujo, Akihiro; Okabayashi, Masanori; Shimatani, Ryoichi; Toyama, Kenji; and Kanzaki, Nobuyoshi, to Matsushita Electric Industrial Co., Ltd. Method for etching electrode foils for an aluminium electrolytic capacitor. 4,681,672, 7-21-87, Cl. 204-129.400.
- Kojima, Kunio: *See—*
  - Hayashi, Shoichi; Ishihara, Hidetoshi; Okada, Taketoshi; and Kojima, Kunio, 4,680,874, Cl. 34-143.000.
  - Sekimoto, Yoshihiro; Terashima, Shigeo; and Kojima, Kunio, 4,696,566, Cl. 350-255.000.
- Kojima, Masaki; and Munekata, Seiji, to Honny Chemicals Company Ltd.; and Asahi Glass Company Ltd. Composition for electrodeposition paint. 4,711,926, 12-8-87, Cl. 524-512.000.
- Kojima, Masamitsu: *See—*
  - Satoh, Eiji; Iwakura, Mararu; Kamimura, Hiroto; Nishi, Yasunori; and Kojima, Masamitsu, 4,699,530, Cl. 384-609.000.
- Kojima, Masanori; and Hayakawa, Masaharu, to Mitsubishi Denki Kabushiki Kaisha. Video signal reproduction apparatus and method having noise reduction for fast video reproduction. 4,686,584, 8-11-87, Cl. 360-10.300.
- Kojima, Masanori: *See—*
  - Murakami, Mitsuru; and Kojima, Masanori, 4,652,938, Cl. 358-310.000.
- Kojima, Masaru: *See—*
  - Ishihara, Takeshi; and Kojima, Masaru, 4,654,478, Cl. 174-176.000.
  - Ozaki, Sei; Futamura, Shoji; Kojima, Masaru; and Inoue, Satoru, 4,687,433, Cl. 425-464.000.
- Kojima, Masayuki: *See—*
  - Takahashi, Yoshinobu; and Kojima, Masayuki, 4,663,016, Cl. 204-299.0EC.
- Kojima, Minoru: *See—*
  - Sakurai, Koichi; and Kojima, Minoru, 4,692,820, Cl. 360-74.700.
- Kojima, Mitsu: *See—*
  - Kami, Yozo; and Kojima, Mitsu, 4,662,237, Cl. 74-512.000.
- Kojima, Mitsuhiro; Asahi, Morio; Narita, Ryuuho; and Imai, Masahiro, to Kabushiki Kaisha Toshiba. Timer device for an electric rice cooker or like cooking apparatus. 4,674,890, 6-23-87, Cl. 368-107.000.
- Kojima, Narihito: *See—*
  - Otomura, Satoshi; and Kojima, Narihito, 4,702,979, Cl. 430-52.000.
- Kojima, Noboru; and Kitagawa, Kinya, to Yamaha Hatsudoki Kabushiki Kaisha. Windmill with controller for controlling rotor RPM. 4,653,982, 3-31-87, Cl. 416-44.000.
- Kojima, Nobutoshi, to Tokai Television Broadcasting Company Limited. Video recording apparatus with editing and mixing of delayed monitored video signal using equidistant record, read and erase heads. 4,706,135, 11-10-87, Cl. 360-14.100.
- Kojima, Nobuyuki; Sekigawa, Youichi; and Kobiyama, Makoto, to Toshiba Heating Appliances Co., Ltd. Portable heating unit. 4,653,464, 3-31-87, Cl. 126-63.000.
- Kojima Press Industry Co., Ltd.: *See—*
  - Kitamura, Akihiko, 4,688,602, Cl. 137-637.100.
  - Komeya, Seiji; Yamana, Takahiro; and Inoue, Eiji, 4,660,881, Cl. 296-37.900.
- Kojima, Sadao; Abe, Hitoshi; Ishizaki, Fumio; Otani, Atusi; and Shirotori, Hidefumi, to Kyoritsu Seiki Corporation; and Hitachi Seiki Co., Ltd. Replaceable tool. 4,680,999, 7-21-87, Cl. 82-36.00B.
- Kojima, Seiji: *See—*
  - Ikeda, Masakiyo; Kojima, Seiji; Kikuchi, Hiroshi; and Kashiwayanagi, Yuzo, 4,705,700, Cl. 437-231.000.
- Kojima, Shigeru; and Obi, Hideo, to Mitsubishi Denki Kabushiki Kaisha. Electric vehicle monitoring system. 4,686,434, 8-11-87, Cl. 318-52.000.
- Kojima, Shigeru: *See—*
  - Urabe, Tetsuo; and Kojima, Shigeru, 4,639,722, Cl. 340-784.000.
- Kojima, Shigetake, to CKD Kabushiki Kaisha. Angular indexing device and method for output shaft. 4,635,507, 1-13-87, Cl. 74-813.00C.
- Kojima, Shinji; Suzuki, Hirokazu; and Orikasa, Yuichi, to Nippon Petrochemicals. Adhesive resins and laminate articles. 4,654,255, 3-31-87, Cl. 428-261.000.
- Kojima, Shinji; Suzuki, Hirokazu; and Orikasa, Yuichi, to Nippon Petrochemicals Co., Ltd. Novel multi-layer articles. 4,656,094, 4-7-87, Cl. 428-412.000.
- Kojima, Shinji: *See—*
  - Mizota, Hisakazu; Kojima, Shinji; Kodama, Masanori; and Miyazaki, Yasuharu, 4,649,985, Cl. 164-468.000.
  - Mizota, Hisakazu; and Kojima, Shinji, 4,706,735, Cl. 164-504.000.
  - Oka, Masataka; Furukawa, Masami; Kojima, Shinji; and Amatsu, Takeo, 4,650,818, Cl. 523-205.000.
- Kojima, Shiro: *See—*
  - Niizuma, Hiroshi; Miki, Toshiro; Kojima, Shiro; Azuma, Kishiro; Kato, Hiroyuki; Murakami, Yuichi; and Ito, Tsutomu, 4,677,225, Cl. 562-599.000.
- Kojima, Shozo: *See—*
  - Kuze, Saburo; Kato, Yoshiharu; and Kojima, Shozo, 4,698,192, Cl. 264-101.000.
- Kojima, Tadao; Kageyama, Shunji; Okada, Minoru; Ohata, Isao; and Sato, Noboru, to Yamanouchi Pharmaceutical Co., Ltd. Coumarins with imidazolyl group or pyridyloxy group having plateletes aggregation inhibiting activity. 4,690,932, 9-1-87, Cl. 514-337.000.

- Kojima, Tadashi: *See—*
  - Hayashi, Yasuhiro; Maeda, Satoru; and Kojima, Tadashi, 4,689,779, Cl. 369-44.000.
  - Inagawa, June; and Kojima, Tadashi, 4,700,337, Cl. 369-50.000.
  - Kobata, Hiroshi; and Kojima, Tadashi, 4,713,802, Cl. 369-59.000.
- Kojima, Takao; Nakano, Akira; Matsuura, Toshitaka; and Takami, Akio, to NGK Spark Plug Co., Ltd. Gas sensor with ceramics substrate having surface-carried ceramics particles. 4,688,015, 8-18-87, Cl. 338-34.000.
- Kojima, Takao; and Ishiguro, Hiroyuki, to NGK Spark Plug Co., Ltd. Pump cell element for air-fuel ratio sensor. 4,713,166, 12-15-87, Cl. 204-425.000.
- Kojima, Takashi: *See—*
  - Osugi, Minoru; Takagawa, Makoto; Nakamura, Tadasi; Kojima, Takashi; and Tsuji, Kinya, 4,666,945, Cl. 518-713.000.
- Kojima, Takio; and Taniguchi, Masato, to NGK Spark Plug Co., Ltd. Ceramic auxiliary combustion chamber. 4,691,673, 9-8-87, Cl. 123-271.000.
- Kojima, Takio; and Taniguchi, Masato, to NGK Spark Plug Co., Ltd. Mounting structure for ceramic sub-combustion chambers. 4,704,998, 11-10-87, Cl. 123-271.000.
- Kojima, Takuji: *See—*
  - Morita, Yousuke; Seguchi, Tadao; Kojima, Takuji; and Tanaka, Ryuichi, 4,668,714, Cl. 523-136.000.
- Kojima, Takuya; Miyashiro, Shoichi; and Aramaki, Yoshimitsu, to Tokyo Shibaura Denki Kabushiki Kaisha. Display device. 4,654,649, 3-31-87, Cl. 340-719.000.
- Kojima, Teiryo; Matsuda, Heiichiro; and Tokizane, Masaru, to Toray Industries, Inc. False-twist textured yarn of polyamide. 4,682,465, 7-28-87, Cl. 57-247.000.
- Kojima, Teiryo: *See—*
  - Negishi, Takao; and Kojima, Teiryo, 4,656,825, Cl. 57-289.000.
- Kojima, Teruhisa: *See—*
  - Wakita, Kazuto; Tsuchiya, Kazuo; Kobayashi, Kazuaki; Higashitsuji, Ken; and Kojima, Teruhisa, 4,675,143, Cl. 264-104.000.
- Kojima, Tetsuhiko: *See—*
  - Sugimori, Shigeru; and Kojima, Tetsuhiko, 4,701,547, Cl. 560-102.000.
- Kojima, Tetsuji; and Yamamoto, Mikio, to Oki Electric Industry Co., Ltd. Development device. 4,676,191, 6-30-87, Cl. 118-657.000.
- Kojima, Tetsuro: *See—*
  - Deguchi, Naoyasu; Kojima, Tetsuro; Ohno, Shigeru; Nakamura, Koki; and Miyazaki, Hideo, 4,696,894, Cl. 430-551.000.
  - Nakamura, Koki; Kojima, Tetsuro; Toyoda, Takashi; and Ikeda, Hideo, 4,675,276, Cl. 430-446.000.
  - Sugimoto, Naohiko; Kojima, Tetsuro; and Ishimaru, Shingo, 4,645,735, Cl. 430-512.000.
- Kojima, Tomihiko: *See—*
  - Hirose, Tadashi; Sakoda, Kousuke; Kojima, Tomihiko; Akita, Hidehiko; and Miyairi, Tsutomu, 4,665,478, Cl. 364-200.000.
- Kojima, Toshihisa: *See—*
  - Kato, Hiroshi; Kojima, Toshihisa; and Yamazaki, Kazuo, 4,651,053, Cl. 313-466.000.
- Kojima, Toshikuni: *See—*
  - Tsuchiya, Sohji; Fujikawa, Wataru; Kojima, Toshikuni; Higuchi, Sadashi; and Yamashita, Akio, 4,660,939, Cl. 350-357.000.
  - Yoshimura, Susumu; Kudoh, Yasuo; Tsuchiya, Soji; Kojima, Toshikuni; and Takahashi, Shohzoh, 4,679,124, Cl. 361-433.000.
- Kojima, Tsuyoshi: *See—*
  - Kaita, Hirosi; Kojima, Tsuyoshi; and Kawai, Motoji, 4,643,344, Cl. 227-112.000.
- Kojima, Yasumichi, to Brother Industries, Ltd. Printing apparatus. 4,644,477, 2-17-87, Cl. 364-523.000.
- Kojima, Yasumichi; Ueno, Hideo; Hayashi, Yasuhiro; Suzuki, Makoto; and Furukawa, Satoshi, to Brother Kogyo Kabushiki Kaisha. Electronic typewriter with selectively deactuatable spelling checking apparatus. 4,671,684, 6-9-87, Cl. 400-63.000.
- Kojima, Yasunobu: *See—*
  - Kawahigashi, Nobuo; Hashida, Shigesou; and Kojima, Yasunobu, 4,707,314, Cl. 264-127.000.
- Kojima, Yasuyuki; Hamada, Nagaharu; and Hori, Yasuro, to Hitachi, Ltd. Thermal recording apparatus. 4,649,401, 3-10-87, Cl. 346-76.0PH.
- Kojima, Yoshikazu: *See—*
  - Namiki, Masayuki; Kamiya, Masaaki; Kojima, Yoshikazu; and Tanaka, Kojiro, 4,639,755, Cl. 357-28.000.
- Kojima, Yoshimi; Narikawa, Shiro; Hayakawa, Takashi; Nojima, Hideo; Imada, Eiji; Matsuyama, Toshiro; and Ehara, Shaw, to Sharp Kabushiki Kaisha. Method of manufacturing an amorphous Si electrophotographic photoreceptor. 4,666,816, 5-19-87, Cl. 430-128.000.
- Kojima, Yoshimi: *See—*
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Kokusai Denshin Denwa Kabushiki Kaisha: *See*—
  Akiba, Shigeyuki; Utaka, Katsuyuki; Sakai, Kazuo; and Matsushima, Yuichi, 4,648,096, Cl. 372-96.000.
Kokusai Denshin Denwa Co., Ltd.: *See*—
  Fujioka, Masanobu, 4,692,917, Cl. 370-60.000.
  Ito, Yasuhiko; and Shinonaga, Hideyuki, 4,706,239, Cl. 370-57.000.
  Iwamoto, Yoshinao; Shirasaki, Yuichi; Fujise, Masayuki; and Asakawa, Kenichi, 4,637,686, Cl. 350-96.290.
  Kakuda, Yoshiaki; Wakahara, Yasushi; and Norigoe, Masamitsu, 4,694,422, Cl. 364-900.000.
  Kaneko, Masahide; Hatori, Yoshinori; and Miyasato, Tsutomu, 4,691,230, Cl. 358-105.000.
  Koga, Keiichiro; Yamazaki, Norikazu; and Muratani, Takuro, 4,694,455, Cl. 371-37.000.
  Mimura, Yoshinori; Tokiwa, Hideharu; Shinbori, Osamu; and Nakai, Tetsuya, 4,674,835, Cl. 350-96.340.
  Wada, Masahiro; and Yamaguchi, Hirohisa, 4,695,882, Cl. 358-136.000.
  Wakabayashi, Hiroharu; and Niiro, Yasuhiko, 4,710,976, Cl. 455-601.000.
  Yamaguchi, Hirohisa; and Yamada, Kazuo, 4,639,778, Cl. 358-135.000.
  Yamaguchi, Hirohisa; Wada, Masahiro; and Yamamoto, Hideo, 4,672,442, Cl. 358-140.000.
  Yamamura, Kazuomi; Ishihara, Hideo; Iwamoto, Yoshinao; Suzuki, Shizuo; Sirasaki, Yuichi; and Asakawa, Kenichi, 4,678,371, Cl. 405-164.000.
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  Ejiri, Yoshihiro; Nagai, Akira; Nakai, Taiichiro; and Niiro, Yasuhiko, 4,708,427, Cl. 350-96.200.
  Endoh, Toshiaki; and Yamazaki, Yasuhiro, 4,652,935, Cl. 358-260.000.
  Hatori, Yoshinori; and Kaneko, Masahide, 4,636,862, Cl. 358-166.000.
  Hatori, Yoshinori; and Kaneko, Masahide, 4,677,479, Cl. 358-135.000.
  Mimura, Yoshinori; and Nagao, Yasuyuki, 4,702,791, Cl. 156-614.000.
  Sakai, Kazuo; Matsushima, Yuichi; Akiba, Shigeyuki; and Utaka, Katsuyuki, 4,682,196, Cl. 357-30.000.
  Tanaka, Fujio; and Imamura, Nobutake, 4,701,881, Cl. 365-122.000.
  Yamazaki, Yoshihiko; Ejiri, Yoshihiro; and Furusawa, Kahei, 4,653,846, Cl. 350-96.200.
Kokusai Denshindenwa Co., Ltd.: *See*—
  Asakawa, Kenichi; Shirasaki, Yuichi; and Iwamoto, Yoshinao, 4,641,915, Cl. 350-96.180.

Kokusai Kogyo Co., Ltd.: *See*—
  Shinutaro; Kato; Tatsuhide; Nakane; and Tetsuo; Ogiwara, 4,700,223, Cl. 358-93.000.
Kokusan Denki Co., Ltd.: *See*—
  Katsumata, Mitsuo, 4,661,761, Cl. 322-28.000.
  Kinoshita, Atsufumi, 4,651,705, Cl. 123-603.000.
  Kunikawa, Norihide; Kondo, Tetsuya; Ohta, Yasumasa; and Matsuoka, Michihiro, 4,693,595, Cl. 355-77.000.
  Nanjyo, Hirotoshi; and Suzuki, Hidetoshi, 4,669,436, Cl. 123-357.000.
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  Yukawa, Hideki; and Horibe, Hiroyuki, 4,651,706, Cl. 123-651.000.
Kokusan Kinzoku Kogyo Co., Ltd.: *See*—
  Fujino, Kiyohiko; Namazue, Hirotoshi; Okuya, Shigetami; Isesumi, Shunsaku; Kobayashi, Satoru; and Shimizu, Kenichi, 4,700,186, Cl. 340-825.720.
  Mochida, Haruo; and Namazue, Hirotoshi, 4,638,292, Cl. 340-63.000.
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  Fukasawa, Takeshi; and Uemura, Isamu, 4,634,161, Cl. 292-336.300.
  Masaki, Mikio; and Kobayashi, Toshikazu, 4,671,090, Cl. 70-455.000.
  Sato, Hidekazu, 4,638,882, Cl. 180-287.000.
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  Tsutsumi, Sunsaku; and Ozawa, Takurou, 4,702,117, Cl. 74-89.170.
  Uemura, Isamu; and Yamamoto, Kazumasa, 4,643,357, Cl. 292-336.300.
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Kolanowski, Clarence: *See*—
  Foncik, Jack F.; Kolanowski, Clarence; Nugarus, Anthony E.; Pellegrino, Thomas F.; and Chmela, Frank, 4,653,183, Cl. 29-759.000.
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Kolar Arms: *See*—
  Mainland, Donald R., 4,713,903, Cl. 42-79.000.
Kolar, Cenek, to Behringwerke Aktiengesellschaft. Beta-d-galactose derivatives and their use. 4,686,193, 8-11-87, Cl. 436-536.000.
Kolar, Cenek: *See*—
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Kolar, Robert, to Steinburg Aktiengesellschaft. Cuff for sealing joints of pipes. 4,685,704, 8-11-87, Cl. 285-109.000.
Kolarik, Zdenek; and Schuler, Robert, to Kernforschungszentrum Karlsruhe GmbH. Process for separation of neptunium from an organic phase in the recovery of irradiated fuel and/or fertile materials. 4,659,551, 4-21-87, Cl. 423-10.000.
Kolaska, Johannes; and Reiter, Norbert, to Fried. Krupp GmbH. Sintered tungsten carbide material and manufacturing method. 4,684,405, 8-4-87, Cl. 75-240.000.
Kolawole, Joshua O.: *See*—
  Gray, Floyd L.; Schubert, Thomas F.; Bradshaw, Kenneth M.; and Kolawole, Joshua O., 4,680,545, Cl. 324-307.000.
  Grieger, Ronald D.; Fariabi, Sepehr; and Kolawole, Joshua O., 4,673,842, Cl. 313-292.000.
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Kolb, Erich: *See*—
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  Wiesenberger, Alfred; Schildmann, Jens A.; Kolb, Erich; and Dechent, Hans-Mario, 4,702,922, Cl. 426-51.000.
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Kolb, Gerald C.; and Regulski, Thomas W., to Dow Chemical Company, The. Cyclic acetal-alcohols. 4,705,872, 11-10-87, Cl. 549-448.000.
Kolb, Hans. Method of monitoring the inclination of a motor vehicle. 4,651,128, 3-17-87, Cl. 340-63.000.
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  Elsasser, Heinrich; and Kolb, Wolfgang, 4,688,404, Cl. 66-219.000.
Kolbas, Robert M.: *See*—
  Carney, James K.; and Kolbas, Robert M., 4,637,122, Cl. 29-569.00L.
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- Bickle, Wolfgang; Braus, Jurgen; and Baureis, Hans-Paul, 4,666,787, Cl. 428-550.000.
- Bickle, Wolfgang; and Pfestorf, Harald, 4,666,792, Cl. 428-626.000.
- Creydt, Martin; Bickle, Wolfgang; and Pfestorf, Harald, 4,679,681, Cl. 192-107.00M.
- Mielke, Siegfried, 4,694,813, Cl. 123-668.000.
- Mielke, Siegfried, 4,709,620, Cl. 92-187.000.
- Sander, Wilfried; Mielke, Siegfried; and Eschenweck, Dieter, 4,658,706, Cl. 92-213.000.
- Sander, Wilfried; and Mielke, Siegfried, 4,711,208, Cl. 123-271.000.
- Schellmann, Klaus, 4,648,309, Cl. 92-233.000.
- Wacker, Erich; Landau, Ulrich; Sander, Wilfried; and Schellmann, Klaus, 4,683,808, Cl. 92-208.000.
- Weiss, Franz; Eschenweck, Dieter; and Stark, Manfred, 4,687,043, Cl. 164-97.000.

Kolberg, William. Portable self-powered band saw. 4,641,560, 2-10-87, Cl. 83-788.000.

Kolbesen, Bernd: *See*—
- Mitlehner, Heinz; and Kolbesen, Bernd, 4,680,601, Cl. 357-15.000.

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Kolblin, Rolf; Schneider, Reinhard; Burgdorf, Heinrich; and Pens, Klaus, to Gebruder Homberg GmbH. Machine tool. 4,675,977, 6-30-87, Cl. 29-568.000.

Kolbus GmbH: *See*—
- Riesmeier, Manfred; and Garlichs, Siemen, 4,677,005, Cl. 427-428.000.

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- Blidschun, Benno; and Lierke, Ernst G., 4,680,163, Cl. 422-28.000.
- Horst, Rathert, 4,704,973, Cl. 112-21.000.
- Rathert, Horst; Grannemann, Gerhard; and Erdboris, Ulrich, 4,681,500, Cl. 412-33.000.

Kolditz, Helmut: *See*—
- Ebeling, Wolfgang; and Kolditz, Helmut, 4,705,120, Cl. 175-59.000.

Kole, Johannus W. G.: *See*—
- Nellen, Johannes H. M.; Slegers, Frans; Otten, Johannes H. B.; and Kole, Johannus W. G., 4,660,139, Cl. 363-68.000.

Kolek, Robert L.: *See*—
- Peters, Stanley T.; Kolek, Robert L.; Guenther, Rolf A.; Anderson, Jeffrey J.; and Marshall, Clarence F., 4,701,231, Cl. 156-172.000.

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Kolenc, Terrence J.; Bork, Carl R., Jr.; Steiss, William C.; Shufflebarger, Earl D.; and Tobbe, William P., to Nupro Company. Valve. 4,684,106, 8-4-87, Cl. 251-335.200.

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- Matheson, Robert R.; Tarnay, Denes; and Kolenich, Peter, 4,654,760, Cl. 362-80.000.

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- Grossmann, Horst; Kalbacher, Klaus; Kolesch, Claus; and Scheckulin, Karl, 4,657,088, Cl. 173-13.000.

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- Sherwin, Maynard A., and Koleske, Joseph V., 4,711,944, Cl. 526-318.420.

Koletar, Gabor I.: *See*—
- Platzer, Stephan J. W., and Koletar, Gabor I., 4,650,738, Cl. 430-143.000.
- Platzer, Stephan J. W.; Koletar, Gabor I.; and Shadrach, Richard L., 4,659,642, Cl. 430-143.000.
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Kolev, Rusy C.: *See*—
- Cermanov, Atanas S.; Kazarov, Ljubomir R.; Valev, Marco S.; Jelyazcov, Jelyazco C.; and Kolev, Rusy C., 4,641,791, Cl. 241-66.000.

Kolff, James: *See*—
- Phipps, Cornelius M., Sr.; and Kolff, James, 4,676,162, Cl. 101-405.000.

Kolff, Willem J., and Shettigar, Udipi R., to University of Utah. Process for therapeutic dissociation of immune complexes and removal of antigens. 4,663,049, 5-5-87, Cl. 210-641.000.

Kolganenko, Vladimir V.: *See*—
- Birjukov, Vasily D.; Kolganenko, Vladimir V.; Tsaregradsky, Vsevolod V.; Darovsky, Vladimir G.; and Titov, Boris K., 4,699,364, Cl. 269-303.000.

Kolhoff, Hendrik, to Hollandse Signaalapparaten B.V. Stabilized platform for scanning antenna. 4,647,939, 3-3-87, Cl. 343-765.000.

Kolibas, James A., to Nordson Corporation. Modular color changers with improved valves and manifolds. 4,657,047, 4-14-87, Cl. 137-881.000.

Kolibas, James A., to Nordson Corporation. Continuous coating process for discrete articles. 4,663,195, 5-5-87, Cl. 427-230.000.

Kolich, Charles H., and Klobucar, W. Dirk, to Ethyl Corporation. Mixed esters of polyphosphazenes. 4,698,439, 10-6-87, Cl. 558-80.000.

Kolinsky, Miloslav; Jisova, Vaclava; and Babka, Josef, to Ceskoslovenska akademie ved. Method for the single-step production of vinyl polymers. 4,690,989, 9-1-87, Cl. 526-88.000.

Koljonen, Kari, to Strid, Bjorn. Automatic poison dispenser for rodent destructive animals and poison preparation for use therewith. 4,663,882, 5-12-87, Cl. 43-131.000.

Kolk, Erich: *See*—
- Schick, Hans; Kolk, Erich; Fauth, Karl-Heinz; and Mohr, Heinrich, 4,691,072, Cl. 585-525.000.

Kolk, Howard A., and Kolk, Robert D., to Mechanical Transplanter. Machine for forming wire arches, and installing the ends of the arches in the ground. 4,658,538, 4-21-87, Cl. 47-1.00R.

Kolk, Robert D.: *See*—
- Kolk, Howard A., and Kolk, Robert D., 4,658,538, Cl. 47-1.00R.

Kolker, Carl W. Vehicle for the delivery of drinks. 4,708,572, 11-24-87, Cl. 414-540.000.

Kolkman, Dick J., to American Standard Inc. Fail-safe voltage-limiting circuit for an audio frequency overlay track circuit. 4,645,148, 2-24-87, Cl. 246-34.00A.

Kolkman, Dick J., to American Standard Inc. Vital inverter driver. 4,652,986, 3-24-87, Cl. 363-56.000.

Kolkmann, Friedrich; Ressel, Herbert; Gradl, Reinhard; and Schimmel, Gunther, to Hoechst Aktiengesellschaft. Process for making wet-process phosphoric acid. 4,683,127, 7-28-87, Cl. 423-321.00R.

Koll, Jochen: *See*—
- Wolff, Joachim; Koll, Jochen; Wolf, Karlheinz; Klipper, Reinhold M.; and Lange, Peter M., 4,702,744, Cl. 8-527.000.

Koll, Juhan, to Berol Kemi AB. Promoted nickel and/or cobalt catalyst, its use, and process performed in its presence. 4,701,434, 10-20-87, Cl. 502-230.000.

Koll, Larry F.: *See*—
- Clarkson, Curtis W., and Koll, Larry F., 4,688,597, Cl. 137-375.000.

Koll, Laurel A., to Accu-Med Corporation. Apparatus for collecting and/or growing protected biological cultures. 4,653,510, 3-31-87, Cl. 128-756.000.

Kollberg, Sten, to ASEA AB. Level meter in a mold for continuous casting. 4,651,800, 3-24-87, Cl. 164-150.000.

Kollberg, Sten: *See*—
- Andersson, Conny; and Kollberg, Sten, 4,648,440, Cl. 164-504.000.

Kolle, Jack J., to Flow Industries, Inc. Process and apparatus for fragmenting rock and like material using explosion-free high pressure shock waves. 4,669,783, 6-2-87, Cl. 299-16.000.

Kollektivgesellschaft Eberhard, Steiner & Dr. Stocker: *See*—
- Steiner, Paul; and Stocker, Bruno, 4,640,411, Cl. 227-76.000.

Kollektor GmbH: *See*—
- Knoerzer, Karl-Heinz, 4,647,807, Cl. 310-236.000.

Kollen, Richard H. Rotary internal combustion engine. 4,633,829, 1-6-87, Cl. 123-246.000.

Koller, David R.: *See*—
- Udell, Theodore H., and Koller, David R., 4,713,207, Cl. 264-515.000.

Koller, Franz, to Siemens Aktiengesellschaft. Device for casting electric components. 4,686,073, 8-11-87, Cl. 264-102.000.

Koller, Franz, to Siemens Aktiengesellschaft. Device for assembling electrical components on a terminal carrier plate. 4,709,847, 12-1-87, Cl. 228-49.100.

Kolley, Arnold: *See*—
- Bruns, Helmut; Freiheit, Artur; and Kolley, Arnold, 4,705,546, Cl. 55-182.000.

Kolling, Rudi: *See*—
- Breher, Rudolf; and Kolling, Rudi, 4,711,346, Cl. 198-844.000.

Kollnaar, Ulrich. Method and device for extracting juice from fruit. 4,643,088, 2-17-87, Cl. 100-37.000.

Kollmeier, Hans-Joachim; Langenhagen, Rolf-Dieter; and Hoffmann, Klaus, to Th. Goldschmidt AG. Siloxanes with betaine groups, their synthesis and use in cosmetic preparations. 4,654,161, 3-31-87, Cl. 252-174.150.

Kollmeier, Hans-Joachim; and Langenhagen, Rolf-Dieter, to Th. Goldschmidt AG. Process for the preparation of flexible polyurethane foams. 4,687,786, 8-18-87, Cl. 521-110.000.

Kollmeier, Hans-Joachim; and Lammerting, Helmut, to Th. Goldschmidt AG. Process for the manufacture of molded objects. 4,692,292, 9-8-87, Cl. 264-126.000.

Kollmeier, Hans-Joachim: *See*—
- Huttinger, Rudolf; Kollmeier, Hans-Joachim; Langenhagen, Rolf-Dieter; Walter, Alfred; and Wolfes, Wilhelm, 4,698,178, Cl. 252-309.000.

Kollmeyer, Willy D.: *See*—
- Payne, George B.; Soloway, Samuel B.; Powell, James E.; Roman, Steven A.; and Kollmeyer, Willy D., 4,670,041, Cl. 71-92.000.

- Kollmorgen Corporation: *See—*
  - DeLuca, Michael A.; and McCormack, John F., 4,701,352, Cl. 427-98.000.
  - Lemley, Thomas H.; Overdorf, Dennis G.; Ott, Kenneth A.; and Kozak, Valentine J., 4,671,465, Cl. 242-7.030.
- Kollmorgen Technologies Corporation: *See—*
  - Benoit, Albert J.; Boden, Dudley M.; Decker, David G.; Kishner, Stanley J.; and Van Arsdell, Robert D., 4,706,206, Cl. 364-526.000.
  - Byrne, John V.; McMullin, Francis; Devitt, Francis; and O'Dwyer, Jeremiah, 4,670,696, Cl. 318-701.000.
  - Byrne, John V.; and O'Dwyer, Jeremiah B., 4,698,537, Cl. 310-168.000.
  - Crowell, Jonathan C.; and Swailes, John T., 4,646,436, Cl. 29-850.000.
  - DeLuca, Michael A., 4,647,477, Cl. 427-98.000.
  - DeLuca, Michael A.; McCormack, John F.; and Oleske, Peter J., 4,666,744, Cl. 427-304.000.
  - Eichenwald, Rolf, 4,647,824, Cl. 318-71.000.
  - Eichenwald, Rolf, 4,675,547, Cl. 307-270.000.
  - Ettelman, David J.; and Floresta, John G., 4,703,243, Cl. 318-696.000.
  - Fridge, David A., 4,648,053, Cl. 364-551.000.
  - Langley, Lawrence W., 4,644,199, Cl. 310-12.000.
  - Langley, Lawrence W., and Kidd, H. Keith, 4,686,437, Cl. 318-254.000.
  - Liu, Chong T., 4,663,000, Cl. 204-55.100.
  - Moisan, Michael P.; and Cook, Joseph P., 4,668,532, Cl. 427-97.000.
  - Morino, Ronald; and Conti, Joseph A., 4,641,773, Cl. 228-1.100.
  - Morrissey, Denis M.; Takach, Peter E.; and Zeblisky, Rudolph J., 4,683,036, Cl. 204-15.000.
  - Murphy, John; McMullin, Francis; Egan, Michael; and Brosnan, Michael, 4,661,756, Cl. 318-701.000.
  - Murphy, John; McMullin, Francis; Egan, Michael; Byrne, John V.; and Kenneally, Patrick, 4,682,093, Cl. 318-701.000.
  - Nuzzi, Francis J.; Leech, Edward J.; Charm, Richard W.; and Polichette, Joseph, 4,662,944, Cl. 106-1.110.
  - Plonski, J. Philip, 4,679,321, Cl. 29-850.000.
  - Savla, Lalit J., 4,712,005, Cl. 250-231.0SE.
  - Schoenberg, Andrew J., and Friedrich, Marju L., 4,642,321, Cl. 523-400.000.
  - Schultz, Roy D.; England, Thomas R.; and Altizor, C. Clark, 4,679,313, Cl. 29-596.000.
  - Swiggett, Brian E.; Morino, Ronald; Keogh, Raymond J., and Crowell, Jonathan C., 4,693,778, Cl. 156-361.000.
  - Swiggett, Brian E.; Morino, Ronald; Keogh, Raymond J.; Crowell, Jonathan C.; Czenczy, George; Schoenberg, Andrew J.; and Friedrich, Marju L., 4,711,026, Cl. 29-850.000.
  - Teng, Yu-Ling; McCoy, Charles; DeFalco, Francis; and Mayernik, Richard A., 4,672,007, Cl. 428-624.000.
  - Whited, James S., 4,645,997, Cl. 323-211.000.
  - Zelmanovic, David; and Kishner, Stanley J., 4,677,298, Cl. 250-341.000.
- Kollner, Harald; and Uhlig, Georg, to Rockwell Golde GmbH. Pane guide for an automobile sliding window. 4,700,508, 10-20-87, Cl. 49-352.000.
- Kollonitsch, Janos; and Patchett, Arthur A., to Merck & Co., Inc. Fluorinated amino acids. 4,695,588, 9-22-87, Cl. 514-538.000.
- Kollross, Gunter, to Teepak Produktie N.V. Process for automated manufacture of link sausages having casings formed of synthetic tubular material. 4,642,848, 2-17-87, Cl. 17-49.000.
- Kollross, Gunter, to Teepak Produktie N.V. Method and an apparatus for cyclically charging the filling tube of a sausage stuffing and closing machine with ready-for-stuffing tubular casing lengths. 4,649,501, 3-17-87, Cl. 17-49.000.
- Kollross, Gunter, to Teepak Produktie N.V. Apparatus for automated manufacture of link sausages having casings formed of synthetic tubular material. 4,660,254, 4-28-87, Cl. 17-33.000.
- Kollross, Gunter. Process and device for the fixture of suspension elements to sausages. 4,694,537, 9-22-87, Cl. 17-49.000.
- Kollross, Gunter: *See—*
  - Vinokur, Isaac, 4,649,962, Cl. 138-118.100.
- Kolluri, Madhavprasad V., to Signetics Corporation. Multi-step parallel analog-digital converter. 4,649,371, 3-10-87, Cl. 340-347.0AD.
- Kolmayer, Andre: *See—*
  - Dehon, Claude; and Kolmayer, Andre, 4,649,020, Cl. 376-419.000.
- Kolner, Brian H.: *See—*
  - Bloom, David M.; and Kolner, Brian H., 4,681,449, Cl. 356-364.000.
- Kolnes, Kenneth O.: *See—*
  - Powell, Thomas A.; Kolnes, Kenneth O.; Sprenger, Kenneth J.; Casarotto, John D.; Whitney, Kenneth P.; and Hammer, Gerald M., 4,654,957, Cl. 29-568.000.
- Kolnick, Frank C.: *See—*
  - Weisshaar, Bernhard P.; Kolnick, Frank C.; Kun, Andrew L; and Mansfield, Bruce M., 4,694,396, Cl. 364-300.000.
- Koloc, Zdenek: *See—*
  - Havelka, Jilji; Jirasko, Petr; Koloc, Zdenek; and Vaclavik, Miroslav, 4,643,372, Cl. 242-43.200.
  - Havelka, Jilji; Jirasko, Petr; Koloc, Zdenek; and Vaclavik, Miroslav, 4,674,696, Cl. 242-43.200.
- Kolodny, Gerald M.; and Cohen, Howard I. Remote dictating apparatus. 4,677,658, 6-30-87, Cl. 379-75.000.
- Kolodziej, Francis J.; and Calvert, Ronald L. Grill cleaning tool. 4,668,302, 5-26-87, Cl. 134-6.000.
- Kolodziej, George C.: *See—*
  - Marion, Paul R.; Nemcoes, James J.; and Kolodziej, George C. 4,693,376, Cl. 209-552.000.
- Kologiy, George J. Gutter cleaner. 4,673,129, 6-16-87, Cl. 239-532.000.
- Kolomayets, George; Ryan, Allen; Nieto, Augustine; and Andrus, Bryan, to Bally Manufacturing Corporation. Rowing machine with improved mechanical features. 4,714,244, 12-22-87, Cl. 272-72.000.
- Kolomayets, George: *See—*
  - Pasierb, John J., Jr.; Nieto, Augustine; Andrus, Bryan; Kolomayets, George; Oglesby, Gary; and Ryan, Allen, 4,674,741, Cl. 272-72.000.
- Kolonia, Robert A. Tool handle. 4,639,029, 1-27-87, Cl. 294-57.000.
- Kolosov, Vladimir V.: *See—*
  - Bragin, Boris F.; Iljushin, Alexei F.; Kolosov, Vladimir V.; Kulikov, Mikhail A.; Markuntovich, Felix D.; Ryabenko, Boris Z.; and Ekber, Boris Y., 4,671,487, Cl. 251-84.000.
- Kolp, Robert J.: *See—*
  - Lee, Leighton, II; and Kolp, Robert J., 4,715,231, Cl. 73-709.000.
- Kolpak Industries, Inc.: *See—*
  - Chandler, Michael S.; and Fiddler, R. Charles, 4,697,429, Cl. 62-203.000.
  - Fiddler, R. Charles, 4,647,223, Cl. 374-141.000.
  - Fiddler, R. Charles, and Coleman, Nathan L., 4,662,270, Cl. 98-82.000.
- Kolpek, Robert A.: *See—*
  - Rush, Elizabeth A.; Howell, Dan M.; and Kolpek, Robert A., 4,686,649, Cl. 364-900.000.
- Kolsch, Michael L. Tanning cot. 4,663,787, 5-12-87, Cl. 5-110.000.
- Kolt, Stanley, to Suroff, Leonard W., a part interest. Automatic damper assembly. 4,697,736, 10-6-87, Cl. 236-49.000.
- Kolton, Chester; and Spater, Stuart S., to B&G Plastics, Inc. Hanger for suspenders. 4,714,156, 12-22-87, Cl. 206-296.000.
- Koltookian, Sarkis A., to Deere & Company. Vehicle clutch lube control system. 4,640,401, 2-3-87, Cl. 192-85.00R.
- Koltookian, Sarkis A., to Deere & Company. No-slip shear connection. 4,688,962, 8-25-87, Cl. 403-408.100.
- Kolts, John H., to Phillips Petroleum Company. Catalyst for conversion of C_3 and C_4 hydrocarbons. 4,657,886, 4-14-87, Cl. 502-303.000.
- Kolts, John H., and Kimble, James B., to Phillips Petroleum Company. Composition of matter and method of oxidative conversion of organic compounds therewith. 4,658,076, 4-14-87, Cl. 585-500.000.
- Kolts, John H.; and Kimble, James B., to Phillips Petroleum Company. Composition of matter and method of oxidative conversion of organic compounds therewith. 4,658,077, 4-14-87, Cl. 585-500.000.
- Kolts, John H., to Phillips Petroleum Company. Propylene and ethylene selectivity with H_2S. 4,658,081, 4-14-87, Cl. 585-651.000.
- Kolts, John H.; Bertus, Brent J.; and Coombs, Daniel M., to Phillips Petroleum Company. Catalytic hydrofining of oil. 4,670,134, 6-2-87, Cl. 208-251.00H.
- Kolts, John H.; and Guillory, Jack P., to Phillips Petroleum Company. Composition of matter and method of oxidative conversion of organic compounds therewith. 4,672,145, 6-9-87, Cl. 585-658.000.
- Kolts, John H.; and Delzer, Gary A., to Phillips Petroleum Company. Composition of matter for conversion of C_3 and C_4 hydrocarbons. 4,705,769, 11-10-87, Cl. 502-241.000.
- Kolts, John H.; and Delzer, Gary A., to Phillips Petroleum Company. Composition of matter and method for conversion of C3 and C4 hydrocarbons. 4,705,772, 11-10-87, Cl. 502-303.000.
- Kolts, John H.: *See—*
  - Kimble, James B.; and Kolts, John H., 4,654,460, Cl. 585-500.000.
- Kolubus GmbH & Co. KG: *See—*
  - Gerhard, Tolasch, 4,707,334, Cl. 422-28.000.
- Kolwicz, Kevin D., to AT&T Bell Laboratories. Method of manufacturing a CMOS cell array with transistor isolation. 4,633,571, 1-6-87, Cl. 29-571.000.
- Kolya, Tibor; Szoke, Bela; Kadar, Karoly; Foti, Gyorgy; and Gecsei, Zoltan, to Autoipari Kutato es Fejleszto Vallalat; and Eszakmagyarorszagi Vegyimuvek. Sound damping device, preferably for reducing the noise of blow-off valves. 4,655,317, 4-7-87, Cl. 181-257.000.
- Kolycheck, Edmond G.; and Ondercin, Lawrence, to B. F. Goodrich Company, The. Magnetic recording tape. 4,643,949, 2-17-87, Cl. 428-425.900.
- Kolze, Lawrence A.; Pick, James M.; and Swanson, Wesley S., to Eaton Corporation. Electromagnetic valve assembly. 4,697,608, 10-6-87, Cl. 137-1.000.
- Komada, Hideaki: *See—*
  - Otsuka, Shojiro; and Komada, Hideaki, 4,691,674, Cl. 123-299.000.
- Komada, Mitsuharu: *See—*
  - Yoshihara, Mitsuo; Morikawa, Yoshitada; Yamamoto, Yasuo; Komada, Mitsuharu; and Hattori, Masaaki, 4,645,297, Cl. 350-96.230.
- Komag, Inc.: *See—*
  - Allen, Ronald; and Chen, Tu, 4,634,512, Cl. 204-298.000.
- Komagata, Hideki: *See—*
  - Inukai, Chyuji; Chino, Eizi; Tojima, Yoshio; Komagata, Hideki; and Nakamura, Masanori, 4,666,784, Cl. 428-425.900.
- Komai, Atsushi: *See—*
  - Morimoto, Yutaka; Saotome, Minoru; and Komai, Atsushi, 4,696,760, Cl. 252-314.000.
- Komai, Hiromichi: *See—*
  - Izumi, Kouji; Horike, Masanori; Furukawa, Tatsuya; Komai, Hiromichi; Naruse, Osamu; and Ebi, Yutaka, 4,677,845, Cl. 73-56.000.

- Komai, Keiichi: *See*—
  - Kamei, Takao; Ono, Fuminobu; Komai, Keiichi; Wakabayashi, Takeshi; Ogawa, Takayuki; Ito, Hideaki; and Shirakawa, Kiyoshi, 4,702,745, Cl. 44-10.00D.
- Komai, Kensaku: *See*—
  - Matsuda, Kumehiko; and Komai, Kensaku, 4,638,435, Cl. 364-405.000.
  - Matsuda, Kumehiko; and Komai, Kensaku, 4,691,283, Cl. 364-405.000.
- Komaki, Akio; Hayakawa, Takumi; Yoneda, Tadashi; Miura, Asahiko; Wada, Hironao; Matsubayashi, Satoshi; and Takemasa, Arihiko, to Shin-Kobe Machinery Co., Ltd. Sealed lead storage battery. 4,652,505, 3-24-87, Cl. 429-131.000.
- Komaki, Shigeki, to Sharp Kabushiki Kaisha. Electronic apparatus with a flat panel keyboard unit. 4,640,994, 2-3-87, Cl. 200-5.00A.
- Komaki, Shigeki, to Sharp Kabushiki Kaisha. Electronic apparatus with flexible display. 4,704,003, 11-3-87, Cl. 350-344.000.
- Komaki, Shigeki: *See*—
  - Itoh, Yoshiro; Oogita, Yoshinori; Komaki, Shigeki; and Nakao, Kazuhiro, 4,666,254, Cl. 350-334.000.
- Komaki, Shojiro: *See*—
  - Ishimaru, Hajime; Miyamoto, Masao; and Komaki, Shojiro, 4,715,186, Cl. 62-45.000.
  - Watanabe, Fumio; Komaki, Shojiro; Miyamoto, Masao; and Ito, Takao, 4,695,724, Cl. 250-292.000.
- Komaki, Shozo: *See*—
  - Okamoto, Yoshiharu; Horikawa, Izumi; and Komaki, Shozo, 4,710,975, Cl. 455-276.000.
- Komaki, Toshiro, to Tachikawa Corporation. Shutter. 4,712,599, 12-15-87, Cl. 160-133.000.
- Komamura, Chiaki: *See*—
  - Ninomiya, Yasuo; Komamura, Chiaki; and Musa, Yoshikazu, 4,690,786, Cl. 264-4.600.
- Komamura Photographic Co., Ltd.: *See*—
  - Komamura, Toshiyuki; and Tomidokoro, Kanji, 4,653,888, Cl. 354-276.000.
- Komamura, Tawara; and Ohya, Hidenobu, to Konishiroku Photo Industry Co., Ltd. Heat-developable color photo-sensitive material. 4,650,748, 3-17-87, Cl. 430-548.000.
- Komamura, Tawara, to Konishiroku Photo Industry Co., Ltd. Heat-developable color photo-sensitive material. 4,656,124, 4-7-87, Cl. 430-548.000.
- Komamura, Toshiyuki; and Tomidokoro, Kanji, to Komamura Photographic Co., Ltd. Indicator for indicating the presence or absence of a photo sensitive material in a film holder. 4,653,888, 3-31-87, Cl. 354-276.000.
- Koman, Ahmet: *See*—
  - Meyers, Vera K.; and Koman, Ahmet, 4,678,779, Cl. 514-176.000.
- Komanduri, Ranga; and Reed, William R., Jr., to General Electric Company. Instrumented tool holder. 4,671,147, 6-9-87, Cl. 82-36.00R.
- Komanduri, Ranga, to General Electric Company. Polycrystalline diamond and CBN cutting tools. 4,690,691, 9-1-87, Cl. 51-293.000.
- Komanduri, Ranga, to General Electric Company. Polycrystalline diamond and CBN cutting tools. 4,702,649, 10-27-87, Cl. 407-119.000.
- Komanduri, Ranga, to General Electric Company. Polycrystalline diamond and CBN cutting tools. 4,714,385, 12-22-87, Cl. 407-119.000.
- Komano, Tohru; and Ohyma, Kanji, to Kirin Beer Kabushiki Kaisha, and Marubeni Kabushiki Kaisha. Promoter derived from chloroplast DNA. 4,710,461, 12-1-87, Cl. 435-68.000.
- Komaransky, Anthony J.; and Meyer, Henry L., to Ranpak Corp. Electric cutter mechanism for dunnage converter. 4,699,609, 10-13-87, Cl. 493-357.000.
- Komaroff, Iwan: *See*—
  - Itoh, Katsuoki; and Komaroff, Iwan, 4,662,338, Cl. 123-467.000.
- Komaromi Kotlajipari Vallalat: *See*—
  - Kardos, Peter; Kalman, Tibor; Kerti, Jozsef; and Varnai, Istvan, 4,689,165, Cl. 252-75.000.
- Komathuzaki, Kiyomi: *See*—
  - Ito, Tosikazu; Komathuzaki, Kiyomi; Chonan, Kenichi; and Horibe, Kiyoshi, 4,669,361, Cl. 91-459.000.
- Komatsu, Akihiro: *See*—
  - Takanashi, Masami; and Komatsu, Akihiro, 4,641,723, Cl. 180-315.000.
- Komatsu, Akira: *See*—
  - Yoshii, Jiro; Komatsu, Akira; and Ishii, Hiroshi, 4,680,720, Cl. 364-521.000.
- Komatsu Fork Lift Co., Ltd.: *See*—
  - Kamide, Takao; Ueda, Norio; and Nemoto, Akira, 4,634,332, Cl. 414-273.000.
- Komatsu Forklift Kabushiki Kaisha: *See*—
  - Ochiai, Toshio; Tsujimura, Akio; and Tsukiyasu, Hiroshi, 4,710,091, Cl. 414-623.000.
  - Yamagishi, Takashi; and Ohsawa, Masaru, 4,635,757, Cl. 187-9.00E.
- Komatsu, Fumio, to Tokyo Shibaura Denki Kabushiki Kaisha. Method of electron beam exposure. 4,644,170, 2-17-87, Cl. 250-492.200.
- Komatsu, Fumito; Toyama, Akiyoshi; Oguchi, Yuzo; and Iwanami, Kiyoharu, to Kabushiki Kaisha Sankyo Seiki Seisakusho. Recording and reproducing disk cassette with improved, slidable shutter plate. 4,648,001, 3-3-87, Cl. 360-133.000.
- Komatsu, Fumito. Magnetic pole structure having aternate poles extending from a point of bases, for a rotary electric machine. 4,656,381, 4-7-87, Cl. 310-257.000.
- Komatsu, Hiroshi; and Yamane, Ken, to Nissan Motor Co., Ltd. Variable preload shaft bearing for turbocharger. 4,676,667, 6-30-87, Cl. 384-99.000.
- Komatsu, Hiroshi; and Nishiguchi, Fumio, to Nissan Motor Co., Ltd. Variable-capacitance radial turbine having swingable tongue member. 4,678,397, 7-7-87, Cl. 415-151.000.
- Komatsu, Hiroshi: *See*—
  - Suzuki, Yoshitaka; Komatsu, Hiroshi; and Kobayashi, Hayahiro, 4,663,940, Cl. 62-127.000.
- Komatsu, Hirotake, to Nippon Gakki Seizo Kabushiki Kaisha. Optical type information reproducing device. 4,698,797, 10-6-87, Cl. 369-116.000.
- Komatsu, Hisamoto: *See*—
  - Muraoka, Kenichi; Setoguchi, Yoichi; Kawase, Tadamasa; Kawata, Hiroitsu; Komatsu, Hisamoto; and Uchida, Makoto, 4,707,376, Cl. 426-658.000.
- Komatsu, Hitoshi: *See*—
  - Fujisawa, Hiromichi; Nakano, Yasuaki; Komatsu, Hitoshi; Kadota, Shozo; and Kurino, Kiyomichi, 4,654,873, Cl. 382-9.000.
- Komatsu, Isamu; and Serizawa, Kenkichi, to Aida Engineering, Ltd. Playback system grinding robot. 4,706,004, 11-10-87, Cl. 318-568.000.
- Komatsu, Kazunori: *See*—
  - Kato, Mikihiko; Kato, Shinichi; Komatsu, Kazunori; and Komine, Shigeo, 4,652,461, Cl. 427-48.000.
  - Kato, Mikihiko; Kato, Shinichi; Komatsu, Kazunori; and Komine, Shigeo, 4,672,913, Cl. 118-623.000.
- Komatsu, Kenichi; and Fujii, Senzo, to Tokyo Shibaura Denki Kabushiki Kaisha. X-ray diagnostic apparatus comprising X-ray intensity and diaphragm value controls. 4,636,954, 1-13-87, Cl. 364-414.000.
- Komatsu, Kenichi, to Kabushiki Kaisha Toshiba. Endoscope apparatus. 4,699,125, 10-13-87, Cl. 128-6.000.
- Komatsu, Kenji: *See*—
  - Magome, Koichi; Toda, Haruki; Koinuma, Hiroyuki; Sahara, Hiroshi; Suzuki, Kiminobu; Ohshima, Shigeo; and Komatsu, Kenji, 4,678,934, Cl. 307-279.000.
- Komatsu, Koichi: *See*—
  - Komatsu, Shinich; Uemura, Seiji; and Komatsu, Koichi, 4,653,339, Cl. 74-422.000.
  - Komatsu, Shinich; Uemura, Seiji; and Komatsu, Koichi, 4,669,364, Cl. 92-128.000.
  - Mukai, Masato; and Komatsu, Koichi, 4,693,139, Cl. 74-579.00E.
- Komatsu, Kousuke; Miyauchi, Tsutomu; Misao, Ikuo; Kimura, Mutsumi; Fujiwara, Tadashi; Tsuchida, Yoshio; and Kuroiwa, Junko, to Sony Corporation. Apparatus for encoding image signal. 4,646,134, 2-24-87, Cl. 358-11.000.
- Komatsu, Kunito: *See*—
  - Eguchi, Keiji; and Komatsu, Kunito, 4,652,827, Cl. 324-322.000.
- Komatsu, Makoto: *See*—
  - Uchida, Minoru; Komatsu, Makoto; and Nakagawa, Kazuyuki, 4,694,017, Cl. 514-418.000.
- Komatsu, Masao; and Fujita, Hiroshi, to Osaka University. Process for accelerating of amorphization of intermetallic compounds by a chemical reaction using lattice defects. 4,637,927, 1-20-87, Cl. 423-644.000.
- Komatsu, Masao; and Fujita, Hiroshi, to Osaka University. Process for preparing amorphous phases of intermetallic compounds by a chemical reaction. 4,639,363, 1-27-87, Cl. 423-644.000.
- Komatsu, Michiyasu; Miyano, Tadashi; Ando, Akio; Nakanishi, Masae; and Fujimoto, Yuuji, to Kabushiki Kaisha Toshiba. Method of manufacturing sintered ceramic body. 4,671,912, 6-9-87, Cl. 264-63.000.
- Komatsu, Michiyasu, to Tokyo Shibaura Denki Kabushiki Kaisha. Sintered ceramic body. 4,713,302, 12-15-87, Cl. 428-698.000.
- Komatsu, Michiyasu: *See*—
  - Komeya, Katsutoshi; and Komatsu, Michiyasu, 4,693,857, Cl. 264-56.000.
- Komatsu, Mikio: *See*—
  - Makimoto, [illegible]; Nishimura, Sadahiko; Matsuo, Masayuki; Amiko, Toshio; Ishizaki, Hirofumi; Kanda, Minoru; Nunoya, Hidetsugu; and Komatsu, Mikio, 4,713,670, Cl. 343-700.0MS.
- Komatsu, Moriyuki: *See*—
  - Noda, Kazushi; Komatsu, Moriyuki; and Mitsunaga, Hiroshi, 4,640,340, Cl. 165-41.000.
- Komatsu, Nobiru: *See*—
  - Gotoh, Michihiro; Fujimoto, Tsuyoshi; Komatsu, Nobiru; and Otsuka, Yuzo, 4,646,950, Cl. 222-591.000.
- Komatsu, Norimasa, to Alps Electric Co., Ltd. Head position adjusting device in cassette tape recorders. 4,677,511, 6-30-87, Cl. 360-109.000.
- Komatsu, Norimasa: *See*—
  - Tsuchiya, Tatsuhiko; and Komatsu, Norimasa, 4,646,186, Cl. 360-130.210.
- Komatsu, Satsuki, to Olympus Optical Co., Ltd. Ion concentration measuring apparatus. 4,641,084, 2-3-87, Cl. 324-71.500.
- Komatsu, Shigeo: *See*—
  - Morimoto, Takeshi; Matsubara, Toshiya; Hamatani, Yoshiki; Iwano, Naoto; Shimizu, Hideo; Komatsu, Shigeo; and Yamada, Hidemi, 4,689,724, Cl. 361-433.000.
- Komatsu, Shigeru; and Kawata, Keiji, to Hitachi, Ltd., and Hitachi Video Engineering, Inc. Framing code detector for a teletext receiver. 4,638,497, 1-20-87, Cl. 375-116.000.
- Komatsu, Shigeru; and Ikeda, Tetsuya, to Hitachi, Ltd. Display control circuit. 4,677,427, 6-30-87, Cl. 340-703.000.
- Komatsu, Shigeru, to Kabushiki Kaisha Toshiba. Trimming of metal interconnection layer by selective migration of metal atoms by energy beams. 4,692,190, 9-8-87, Cl. 437-189.000.
- Komatsu, Shigeru, to Kabushiki Kaisha Toshiba. Method of making a bipolar semiconductor device. 4,710,241, 12-1-87, Cl. 437-162.000.
- Komatsu, Shinich; Uemura, Seiji; and Komatsu, Koichi, to Atsugi Motor Parts Co., Ltd. Rack-and-pinion steering gear for a vehicle. 4,653,339, 3-31-87, Cl. 74-422.000.

Komatsu, Shinichi; Uemura, Seiji; and Komatsu, Koichi, to Atsugi Motor Parts Co., Ltd. Rack-and-pinion steering gear structure for a vehicle. 4,669,364, 6-2-87, Cl. 92-128.000.

Komatsu, Shinichi, to Atsugi Motor Parts Company, Limited. Power assist device for automotive steering system. 4,696,198, 9-29-87, Cl. 74-388.0PS.

Komatsu, Shinichi, to Atsugi Motor Parts Company Limited. Rack and pinion power steering apparatus. 4,706,513, 11-17-87, Cl. 74-422.000.

Komatsu, Shuichi; Shimotori, Kazumi; Takeda, Hiromitsu; and Nakahashi, Masako, to Tokyo Shibaura Denki Kabushiki Kaisha. Method of joining Ni-base heat resisting alloys. 4,681,251, 7-21-87, Cl. 228-208.000.

Komatsu, Tamikuni: *See*—

- Aoshima, Atsushi; Komatsu, Tamikuni; and Enoki, Sachio, 4,668,761, Cl. 528-230.000.

Komatsu, Teruaki; Kobayashi, Kiyoshi; Tatsu, Kunihiko; and Shibata, Shoichi, to Matsushita Electric Works, Ltd. Keyless chuck for rotary tool. 4,695,065, 9-22-87, Cl. 279-60.000.

Komatsu, Teruo: *See*—

- Nakaoka, Masaki; Komatsu, Teruo; Goto, Shinji; and Matsunaga, Tsuyoshi, 4,652,149, Cl. 384-100.000.

Komatsu, Toshio; Katada, Akira; and Takahashi, Hideyuki, to Mitsubishi Gas Chemical Company, Inc. Package containing quality-retaining agent. 4,657,133, 4-14-87, Cl. 206-204.000.

Komatsu, Toshio; and Takahashi, Hideyuki, to Mitsubishi Gas Chemical Company, Inc. Method for manufacturing gas permeable packaging material. 4,657,610, 4-14-87, Cl. 156-87.000.

Komatsu, Toshio: *See*—

- Wakamatsu, Syuji; Komatsu, Toshio; Inoue, Yoshiaki; and Harima, Yoshihiko, 4,667,814, Cl. 206-0.700.

Komatsu, Toshiyuki; Nakagawa, Katsumi; Fukaya, Masaki; and Shoji, Tatsumi, to Canon Kabushiki Kaisha. Amorphous silicon photosensor of layers having differing conductivity. 4,658,280, 4-14-87, Cl. 357-30.000.

Komatsu, Toshiyuki; Hirai, Yutaka; Nakagawa, Katsumi; and Fukuda, Tadaji, to Canon Kabushiki Kaisha. Electrophotographic image forming member having hydrogenated amorphous photoconductive layer including carbon. 4,664,998, 5-12-87, Cl. 430-64.000.

Komatsu, Toshiyuki: *See*—

- Fukaya, Masaki; Komatsu, Toshiyuki; Shoji, Tatsumi; Kamio, Masaru; and Sekimura, Nobuyuki, 4,700,080, Cl. 250-578.000.
- Inoue, Eiichi; Shimizu, Isamu; and Komatsu, Toshiyuki, 4,673,628, Cl. 430-58.000.
- Inoue, Eiichi; Shimizu, Isamu; and Komatsu, Toshiyuki, 4,701,394, Cl. 430-57.000.
- Nakagawa, Katsumi; Komatsu, Toshiyuki; Hirai, Yutaka; Misumi, Teruo; and Fukuda, Tadaji, 4,670,369, Cl. 430-128.000.
- Sekimura, Nobuyuki; Fukaya, Masaki; Nakagawa, Katsumi; Komatsu, Toshiyuki; Shoji, Tatsumi; and Furushima, Teruhiko, 4,667,214, Cl. 357-30.000.
- Shirato, Yoshiaki; Komatsu, Toshiyuki; Seito, Shinichi; Kawai, Tatsundo; Iwamoto, Hirofumi; Nakagawa, Katsumi; and Kuroda, Yasuo, 4,680,644, Cl. 358-294.000.

Komatsu, Tsunetoshi: *See*—

- Nakamara, Shin; Hikino, Keiji; Kaji, Shinichi; and Komatsu, Tsunetoshi, 4,638,573, Cl. 34-82.000.

Komatsu, Yasuhiro: *See*—

- Tahara, Yoshiyuki; Komatsu, Yasuhiro; Koyama, Hiroyasu; Kubota, Reiko; Yamaguchi, Teruhito; and Takahashi, Toshihiro, 4,645,862, Cl. 564-370.000.
- Tahara, Yoshiyuki; Komatsu, Yasuhiro; Koyama, Hiroyasu; Kubota, Reiko; Yamaguchi, Teruhito; and Takahashi, Toshihiro, 4,658,063, Cl. 564-367.000.
- Tahara, Yoshiyuki; Komatsu, Yasuhiro; Koyama, Hiroyasu; Kubota, Reiko; Yamaguchi, Teruhito; and Takahashi, Toshihiro, 4,700,002, Cl. 564-367.000.

Komatsu, Yasumasa: *See*—

- Katto, Takayuki; Komatsu, Yasumasa; and Shiiki, Zenya, 4,636,553, Cl. 525-67.000.
- Katto, Takayuki; Komatsu, Yasumasa; and Shiiki, Zenya, 4,701,495, Cl. 525-75.000.

Komatsu, Yoshimi: *See*—

- Matsuo, Kazuhiko; Hasegawa, Teruyuki; Kuwano, Seigo; Yamaguchi, Ryuji; Shiwata, Akio; Hamada, Yoneichi; Komatsu, Yoshimi; Kondo, Tsuneo; Shirotani, Yusuke; Nakashima, Hirohisa; and Matsuda, Yasuhiro, 4,674,101, Cl. 373-95.000.
- Nakashima, Hirohisa; Komatsu, Yoshimi; Ikeda, Masafumi; and Kondo, Tsuneo, 4,652,306, Cl. 75-10.170.
- Nakashima, Hirohisa; Komatsu, Yoshimi; Ikeda, Masafumi; and Kondo, Tsuneo, 4,652,308, Cl. 75-49.000.

Komatsu, Yumiko: *See*—

- Ueno, Ryuzo; Itoh, Shigeru; Fujimoto, Shine; Komatsu, Yumiko; and Tsuchiya, Hiroaki, 4,655,844, Cl. 106-309.000.

Komatsu Zenoah Co.: *See*—

- Gamoh, Akira; Miura, Takashi; Sawada, Toshiharu; and Kiyooka, Katsumi, 4,658,778, Cl. 123-195.00C.
- Kiyooka, Katsumi, 4,663,799, Cl. 15-330.000.

Komatsu Zoki, Ltd.: *See*—

- Hyoki, Takuzan; Uchida, Atsushi; and Yamamoto, Yuichi, 4,706,776, Cl. 180-334.000.

Komatsubara, Hirofumi: *See*—

- Nonomura, Yutaka; Sugiyama, Jun; Komatsubara, Hirofumi; and Takeuchi, Masaharu, 4,697,459, Cl. 73-862.360.
- Sugiyama, Jun; Komatsubara, Hirofumi; Shimaoka, Keiichi; Takeuchi, Masaharu; and Takeuchi, Takashi, 4,697,460, Cl. 73-862.360.

Komatsubara, Masahiko: *See*—

- Itagaki, Tadashi; Gomi, Hidehito; and Komatsubara, Masahiko, 4,675,907, Cl. 381-152.000.

Komatsubara, Masahiro; Kamimura, Tetsuro; Inanaga, Takugi; and Takahashi, Akira, to Pioneer Electronic Corporation. Cassette tape machine. 4,695,011, 9-22-87, Cl. 242-199.000.

Komatsubara, Michiro: *See*—

- Nishiike, Ujihiro; Komatsubara, Michiro; Iida, Yoshiaki; and Matoba, Isao, 4,655,854, Cl. 148-111.000.

Komatsubara, Saburo: *See*—

- Kisumi, Masahiko; Komatsubara, Saburo; and Taniguchi, Tomoyasu, 4,692,409, Cl. 435-109.000.

Komatsubara, Shoji; Hatabe, Yukio; Horikawa, Tooru; Murasawa, Sadao; and Murakami, Hajime, to Dainippon Screen Mfg. Co., Ltd. and Ishihara Sangyo Kaisha Ltd. Apparatus for producing an electrophotographic print. 4,682,881, 7-28-87, Cl. 355-10.000.

Komatsubara, Shoji: *See*—

- Hatabe, Yukio; and Komatsubara, Shoji, 4,702,588, Cl. 355-10.000.

Komatsubara, Tadashi: *See*—

- Nakamura, Masaru; Okajima, Masaki; Komatsubara, Tadashi; Sadamasa, Tetsuo; and Nitta, Koichi, 4,706,101, Cl. 357-17.000.

Komatsuzaki, Katsuo: *See*—

- Enomoto, Osaomi; and Komatsuzaki, Katsuo, 4,708,768, Cl. 437-228.000.

Komatsuzaki, Masato: *See*—

- Sano, Shigeo; and Komatsuzaki, Masato, 4,663,874, Cl. 40-621.000.

Komatsuzaki, Shigeki: *See*—

- Uematsu, Takao; Komatsuzaki, Shigeki; Nakano, Fumio; and Takamura, Tomoe, 4,657,685, Cl. 252-32.500.

Komatsuzaki, Takeshi: *See*—

- Kutsukake, Mitsuhiro; Murata, Takahiko; Saito, Genji; Komatsuzaki, Takeshi; Uehara, Kuniaki; Kato, Toshimitsu; Hattori, Takeo; and Hayashida, Morimasa, 4,711,077, Cl. 56-120.200.
- Ogami, Takeo; Komatsuzaki, Takeshi; Shigenari, Ryoichi; and Uesugi, Naomoto, 4,694,942, Cl. 192-13.00A.

Komatuzaki, Hiroshi: *See*—

- Koda, Takao; Ichii, Hirokazu; and Komatuzaki, Hiroshi, 4,697,903, Cl. 354-288.000.

Komatz, Dennis J., to Lucas Industries Public Limited Company. Clutch master cylinder with internal reservoir. 4,679,660, 7-14-87, Cl. 192-85.00R.

Komax Systems, Inc.: *See*—

- Carlson, Richard F., 4,674,888, Cl. 366-337.000.

Komba, Toshinori: *See*—

- Kanai, Hideo; Komba, Toshinori; and Mogi, Fuji, 4,694,571, Cl. 29-806.000.

Kombilift Limited: *See*—

- Kinsey, Robert, 4,687,406, Cl. 414-701.000.

Kombinat VEB Keramische Werke Hermsdorf: *See*—

- Elbel, Thomas; Muller, Jurgen; and Volklein, Friedemann, 4,665,276, Cl. 136-215.000.

Komeda, Shirou: *See*—

- Ueda, Yasuo; Kagitani, Yoshio; Komeda, Shirou; and Funakoshi, Satoshi, 4,701,325, Cl. 424-164.000.

Komeda, Tadao: *See*—

- Kikuchi, Kazuya; Komeda, Tadao; and Fujita, Tsutomu, 4,693,792, Cl. 156-653.000.

Komeetstaal Holding B.V.: *See*—

- Smolders, Cornelis, 4,674,371, Cl. 82-36.00R.

Komeno, Taichitro: *See*—

- Kono, Masao; Komeno, Taichitro; Ishihara, Shoichi; Yamauchi, Akira; and Okabayashi, Tadashi, 4,686,179, Cl. 435-7.000.

Komeshima, Nobuyasu: *See*—

- Otake, Noboru; Tatsuta, Kuniaki; Mizobuchi, Shigeyuki; Komeshima, Nobuyasu; Nakajima, Shohachi; Kawai, Hiroyuki; and Odagawa, Atsuo, 4,710,564, Cl. 536-6.400.

Komet Stahlhalter- und Werkzeugfabrik Robert Breuning GmbH: *See*—

- Eckle, Otto; and Roser, Walter, 4,634,324, Cl. 409-209.000.
- Eckle, Otto, 4,678,382, Cl. 409-232.000.
- Eckle, Otto, 4,684,301, Cl. 409-232.000.
- Eckle, Otto; and Roser, Walter, 4,714,390, Cl. 409-234.000.

Kometani, Kiichi: *See*—

- Nakamura, Kiyokazu; Kometani, Kiichi; and Inoue, Toshihide, 4,664,983, Cl. 428-458.000.

Komeya, Katsutoshi; and Komatsu, Michiyasu, to Kabushiki Kaisha Toshiba. Method for production of sintered article of silicon nitride. 4,693,857, 9-15-87, Cl. 264-56.000.

Komeya, Katsutoshi: *See*—

- Inoue, Hiroshi; Tsuge, Akihiko; and Komeya, Katsutoshi, 4,680,278, Cl. 501-98.000.

Komeya, Seiji; Yamana, Takahiro; and Inoue, Eiji, to Kojima Press Industry Co., Ltd. Actuator for movably supported object. 4,660,381, 4-28-87, Cl. 296-37.900.

Komeyama, Yoshihiro; Kembo, Yukio; Kuni, Asahiro; Funatsu, Ryuichi; Inagaki, Akira; Ikeda, Minoru; and Okamoto, Keiichi, to Hitachi, Ltd. Projection alignment method and apparatus. 4,708,484, 11-24-87, Cl. 356-401.000.

Komin, Andrew P., to Koch Industries, Inc. Carbonless paper solvent utilizing triisopropyltoluene. 4,680,056, 7-14-87, Cl. 106-21.000.

Kominami, Hideyuki: *See*—

- Omori, Hideki; Asada, Kazuhiko; and Kominami, Hideyuki, 4,652,713, Cl. 219-10.770.

Kominami, Seiya: *See*—

- Asayama, Yoshiaki; and Kominami, Seiya, 4,657,640, Cl. 204-1.00T.

- Komine, Shigeo: *See*—
  - Ejiri, Kiyomi; and Komine, Shigeo, 4,652,500, Cl. 428-695.000.
  - Kato, Mikihiko; Komine, Shigeo; Morita, Kazuhiko; and Okuzawa, Yasutoshi, 4,647,473, Cl. 427-44.000.
  - Kato, Mikihiko; Kato, Shinichi; Komatsu, Kazunori; and Komine, Shigeo, 4,652,461, Cl. 427-48.000.
  - Kato, Mikihiko; Komine, Shigeo; Okuzawa, Yasutoshi; and Morita, Kazuhiko, 4,652,480, Cl. 428-65.000.
  - Kato, Mikihiko; Komine, Shigeo; and Morita, Kazuhiko, 4,660,119, Cl. 360-133.000.
  - Kato, Mikihiko; Komine, Shigeo; Koyota, Katsumu; and Nakata, Kouji, 4,671,978, Cl. 428-65.000.
  - Kato, Mikihiko; Kato, Shinichi; Komatsu, Kazunori; and Komine, Shigeo, 4,672,913, Cl. 118-623.000.
  - Kato, Mikihiko; Komine, Shigeo; Morita, Kazuhiko; and Okuzawa, Yasutoshi, 4,696,846, Cl. 428-65.000.
  - Kato, Mikihiko; Okuzawa, Yasutoshi; Komine, Shigeo; and Morita, Kazuhiko, 4,707,392, Cl. 428-65.000.
  - Morita, Kazuhiko; Komine, Shigeo; Kasuga, Akira; and Hibino, Noburo, 4,661,377, Cl. 427-130.000.
- Komine, Tomio: *See*—
  - Kajioka, Yasuo; Komine, Tomio; Kadowaki, Hitoshi; Matsuda, Shigeyoshi; Yugami, Yoshinori; Kubota, Shinya; Takahashi, Yoshio; Shimada, Hiroshi; and Kurata, Nobutaka, 4,709,899, Cl. 249-20.000.
- Komine, Yoshio; and Kawamoto, Kenichi, to Canon Kabushiki Kaisha. Mechanical mounting for zoom lens. 4,636,042, 1-13-87, Cl. 350-429.000.
- Kominek, Leo A., and Wolf, Holly J., to Upjohn Company, The. Δ^1-dehydrogenation with heat or air-dried B. cyclooxidans. 4,704,358, 11-3-87, Cl. 435-61.000.
- Kominiak, Andrew A.: *See*—
  - Luzzi, Glenn J., and Kominiak, Andrew A., 4,684,764, Cl. 174-31.000.
- Komis, Glenna. External male urinary catheter with garment. 4,713,066, 12-15-87, Cl. 604-353.000.
- Komitor, Greg A.: *See*—
  - Friedlander, Randal H.; Nash, Sheryl A.; and Komitor, Greg A., 4,695,493, Cl. 428-40.000.
- Komives, Tamas; Dutka, Ferenc; Barta, Istvan; Jablonkai, Istvan; Halesch, Agnes; Bihari, Ferenc; Eifert, Gyula; Bohus, Peter; Nagy, Mihaly; Bacskai, Gyorgy; and Kuronya, Istvan, to Budapesti Vegyimuvek; and MTA Kozponti Kemiai I Kutato Intezet. Herbicidal 4-chloro-aryloxy-acetyl- and 4-chloro-aryloxy-propionyl-malonates. 4,708,733, 11-24-87, Cl. 71-94.000.
- Komiya, Hidetsugu, to Fanuc Ltd. Position control of multiple tools based on elapsed time of tool operation. 4,692,856, 9-8-87, Cl. 364-167.000.
- Komiya, Hiroshi: *See*—
  - Yasui, Hiroyoshi; Yoshida, Teruo; Komiya, Hiroshi; Oguchi, Toshitaro; and Okamura, Seiji, 4,668,411, Cl. 252-51.50A.
- Komiya, Jujiro; Kikuchi, Yuji; and Suzuki, Katsuaki, to Shinwa Sangyo Co., Ltd. Closed type heat exchanger for an evaporation type cooling tower. 4,655,977, 4-7-87, Cl. 261-153.000.
- Komiya, Masahiro: *See*—
  - Hamaoka, Toshiyuki; Fujiwara, Hiromi; Kusama, Tsuneo; and Komiya, Masahiro, 4,672,106, Cl. 530-331.000.
- Komiya, Ryohei; and Terazawa, Masaaki, to Brother Kogyo Kabushiki Kaisha. Thermo-magnetic recording device. 4,701,768, 10-20-87, Cl. 346-74.400.
- Komiya, Yasutoyo: *See*—
  - Mizoguchi, Yoshihiko; Sekine, Keiichi; Komiya, Yasutoyo; and Nishida, Yoshio, 4,657,142, Cl. 206-606.000.
- Komiya, Yukiatsu; and Hirai, Koji, to Kuraray Co., Ltd. Polyurethane compositions. 4,704,445, 11-3-87, Cl. 528-49.000.
- Komiya, Yutaka; Nakamura, Shinichi; Miyata, Masanori; Hirose, Masayuki; and Mori, Toshihiko, to Canon Kabushiki Kaisha. Image forming system. 4,647,188, 3-3-87, Cl. 355-55.000.
- Komiya, Yutaka; Murakami, Katsumi; Inuzuka, Tsuneki; and Sakamaki, Hisashi, to Canon Kabushiki Kaisha. Image forming process control method and apparatus related to control while apparatus is in an improper operational state. 4,671,647, 6-9-87, Cl. 355-14.00R.
- Komiya, Yutaka; Tomosada, Masahiro; Nakamura, Shinichi; Miyata, Masanori; Hirose, Masayuki; and Adachi, Hideki, to Canon Kabushiki Kaisha. Image forming apparatus. 4,697,916, 10-6-87, Cl. 355-14.00E.
- Komiya, Yutaka: *See*—
  - Miyata, Masanori; Komiya, Yutaka; Nakamura, Shinichi; Hirose, Masayuki; Adachi, Hideki; and Tomosada, Masahiro, 4,641,954, Cl. 355-14.00R.
- Komiyama, Choji; and Oishi, Kengo, to Fuji Photo Film Co., Ltd. Magnetic tape cassette storage case. 4,648,507, 3-10-87, Cl. 206-232.000.
- Komiyama, Choji; and Oishi, Kengo, to Fuji Photo Film Co., Ltd. Magnetic tape cassette. 4,676,453, 6-30-87, Cl. 242-199.000.
- Komiyama, Choji; and Oishi, Kengo, to Fuji Photo Film Co., Ltd. Magnetic tape cassette. 4,706,148, 11-10-87, Cl. 360-132.000.
- Komiyama, Hiroshi, to Kureha Chemical Industry Co., Ltd.; and Idemitsu Kosan Company Limited, part interest to each. Process for preparation of ceramic film. 4,654,228, 3-31-87, Cl. 427-180.000.
- Komiyama, Kanki; Funayama, Shinji; and Umezawa, Iwao, to Kitasato Institute, The. Novel cell-cidal antibiotic 82-85-8A and its production. 4,701,324, 10-20-87, Cl. 424-118.000.
- Komiyama, Makoto: *See*—
  - Hirai, Hidefumi; Komiyama, Makoto; Kurima, Kazunori; and Wada, Keiichiro, 4,675,309, Cl. 502-402.000.
  - Hirai, Hidefumi; Komiyama, Makoto; Hara, Susumu; and Wada, Keiichiro, 4,696,682, Cl. 55-68.000.
  - Hirai, Hidefumi; Komiyama, Makoto; and Sugiura, Izuru, 4,663,478, Cl. 562-475.000.
- Komiyama, Matsuo: *See*—
  - Fukuta, Kenji; Komiyama, Matsuo; Katsuyama, Kazuo; and Tanno, Minoru, 4,703,894, Cl. 239-414.000.
- Komiyama, Toru: *See*—
  - Yamashita, Hiroshi; Fujii, Kanenaga; Hayakawa, Junji; Komiyama, Toru; and Tamaru, Sinji, 4,673,243, Cl. 350-96.150.
- Komiyama, Yoshizo: *See*—
  - Miyazaki, Yoshihiko; Goto, Taizan; Komiyama, Yoshizo; and Iwata, Kotei, 4,641,603, Cl. 118-724.000.
- Komkov, Jury A.: *See*—
  - Ivanov, Mikhail A.; Komkov, Jury A.; and Fomina, Vera V., 4,705,876, Cl. 556-149.000.
- Kommrusch, Richard S.: *See*—
  - Gannon, Mark A.; Kommrusch, Richard S.; and Yester, Francis R., Jr., 4,661,790, Cl. 333-234.000.
- Komoda, Norihisa: *See*—
  - Katayama, Masanori; Komoda, Norihisa; Murata, Tomohiro; and Kera, Kazuo, 4,638,227, Cl. 318-565.000.
- Komoda, Tsutomu: *See*—
  - Saitou, Norio; Ozasa, Susumu; Okumura, Masahide; Ooyama, Mitsuo; Komoda, Tsutomu; Harada, Katsuhiro; Fujinami, Minpei; and Iwadate, Kazumi, 4,692,579, Cl. 250-492.200.
- Komori, Akihiro: *See*—
  - Goto, Makoto; Okabe, Takao; and Komori, Akihiro, 4,703,144, Cl. 219-69.00P.
- Komori, Katsufumi: *See*—
  - Kanno, Masashi; Komori, Katsufumi; Tatekawa, Masaichirou; Miwa, Kiyohito; and Takaoka, Iwane, 4,707,109, Cl. 355-7.000.
- Komori, Kazuhiro; Meguro, Satoshi; Ito, Satoru; Kihara, Toshimasa; and Wakimoto, Harumi, to Hitachi, Ltd. Nonvolatile memory device or a single crystal silicon film. 4,653,026, 3-24-87, Cl. 365-189.000.
- Komori, Kazuhiro; Kuroda, Kenichi; and Sugiura, June, to Hitachi, Ltd. Semiconductor device of an LDD structure having a floating gate. 4,663,645, 5-5-87, Cl. 357-23.500.
- Komori, Kazuhiro; Kuroda, Kenichi; and Okuyama, Kousuke, to Hitachi, Ltd. MOSFET which reduces the short-channel effect. 4,697,198, 9-29-87, Cl. 357-23.300.
- Komori, Kazuhiro: *See*—
  - Okuyama, Kousuke; Komori, Kazuhiro; and Katto, Hisao, 4,652,897, Cl. 357-23.500.
  - Shimizu, Shinji; Komori, Kazuhiro; Kosa, Yasunobu; and Sugiura, June, 4,651,406, Cl. 29-571.000.
- Komori, Mikio: *See*—
  - Kato, Yukio; Komori, Mikio; and Yonai, Tadao, 4,677,993, Cl. 131-280.000.
  - Kobayashi, Hideki; Okumoto, Yutaka; and Komori, Mikio, 4,660,574, Cl. 131-105.000.
  - Kobayashi, Hideki; Okumoto, Yutaka; and Komori, Mikio, 4,681,505, Cl. 414-744.00R.
  - Okumoto, Yutaka; Furakawa, Takao; and Komori, Mikio, 4,671,299, Cl. 131-60.000.
- Komori, Minoru: *See*—
  - Kumazawa, Katsuyoshi; and Komori, Minoru, 4,666,398, Cl. 431-201.000.
- Komori Printing: *See*—
  - Ichikawa, Ieyasu; and Arai, Shigeji, 4,676,157, Cl. 101-155.000.
  - Watanabe, Hideo, 4,642,456, Cl. 250-223.00R.
- Komori Printing Machinery Co., Ltd.: *See*—
  - Tsunoda, Teruo; and Kokawa, Ryoichi, 4,649,566, Cl. 382-1.000.
  - Tsunoda, Teruo, 4,678,336, Cl. 356-380.000.
  - Watanabe, Hideo, 4,642,457, Cl. 250-223.00R.
- Komori, Shigehiro; Sakamaki, Hisashi; Hattori, Hiroyuki; Iida, Toshihide; Miyamoto, Koichi; and Umezawa, Kazumi, to Canon Kabushiki Kaisha. Electrophotographic device. 4,662,740, 5-5-87, Cl. 355-3.0SH.
- Komori, Shigeki: *See*—
  - Mitani, Kazuo; Hirota, Yoshiharu; Kumagai, Shinobu; Komori, Shigeki; and Tsuru, Masahiro, 4,660,618, Cl. 164-454.000.
- Komori, Tadaaki: *See*—
  - Ezaki, Masami; Hashimoto, Seiji; Komori, Tadaaki; Umehara, Kazuyoshi; and Kohsaka, Masanobu, 4,654,211, Cl. 424-116.000.
  - Kohsaka, Masanobu; Terano, Hiroshi; Komori, Tadaaki; Iwami, Morita; Yamashita, Michio; Hashimoto, Masashi; Uchida, Itsuo; and Takase, Shigehiro, 4,645,765, Cl. 514-233.000.
- Komorita, Kazuo; Miyoshi, Masanobu; and Onodera, Kaoru, to Konishiroku Photo Industry Co., Ltd. Light-sensitive silver halide multilayer color photographic material. 4,640,889, 2-3-87, Cl. 430-505.000.
- Komoriya, Susumu; Nishizuka, Hiroshi; Nakagawa, Shinya; and Maejima, Hisashi, to Hitachi, Ltd. Exposure method and exposure apparatus. 4,699,505, 10-13-87, Cl. 355-30.000.
- Komorowski, Robert; and Punia, Harpal, to Plessey Overseas Limited. Variable timing and power storage arrangements. 4,644,864, 2-24-87, Cl. 102-215.000.
- Komorowski, Robert B.; and Else, Mark, to Plessey Overseas Limited. Simulation of aerial decoy arrangements. 4,705,477, 11-10-87, Cl. 434-24.000.
- Komossa, Werner; Hausler, Nikolaus; and Elsner, Uwe, to Hauni-Werke Korber & Co. KG. Apparatus for grinding the knives in tobacco cutting machines. 4,640,059, 2-3-87, Cl. 51-5.00D.
- Komoto, Akira; and Shimauchi, Kunio, to Shimadzu Corporation. Electronic balance. 4,666,005, 5-19-87, Cl. 177-180.000.

Komoto, Tadashi: *See—*

Yamada, Yasuharu; Komoto, Tadashi; and Koishi, Hidehiko, 4,672,401, Cl. 503-208.000.

Komp, Hermann-Josef, to Klockner-Humboldt-Deutz Aktiengesellschaft. Device for the cushioned mounting of a tractor cab. 4,638,878, 1-27-87, Cl. 180-89.130.

Kompanek, Harry W. Electroacoustical transducer. 4,651,044, 3-17-87, Cl. 310-323.000.

Kompanek, Harry W.; Ligman, James R.; and Plambeck, Eric D., to Piezo Sona-Tool Corporation. Downhole transducer systems. 4,658,897, 4-21-87, Cl. 166-249.000.

Kompelien, Arlon D., to Honeywell Inc. Time controlled thermostat. 4,635,845, 1-13-87, Cl. 236-46.00R.

Kompis, Ivan; and Weiss, Ekkehard, to Hoffmann-La Roche Inc. Substituted 2-phenyl-1,3-dioxolanes. 4,640,918, 2-3-87, Cl. 514-222.000.

Kompis, Ivan; Rey-Bellet, Gerald; and Zanetti, Guido, to Hoffmann-La Roche Inc. Intermediates for benzylpyrimidines. 4,659,818, 4-21-87, Cl. 544-163.000.

Komukai, Shigemi, to Tokico Ltd. Fuel supplying apparatus. 4,662,539, 5-5-87, Cl. 222-14.000.

Komukai, Shigemi: *See—*

Yamashita, Kazuhisa; Shibata, Yoshio; and Komukai, Shigemi, 4,660,153, Cl. 364-513.500.

Komulainen, Viljo S., to Aihiko Ky. Method for sawing a tree trunk and for treating a uniformly thick slice of wood sawed off the trunk. 4,691,751, 9-8-87, Cl. 144-357.000.

Komura, Fuminobu: *See—*

Mizuno, Hirotaka; and Komura, Fuminobu, 4,700,398, Cl. 382-1.000.

Seto, Youichi; Homma, Koichi; Komura, Fuminobu; Yamagata, Shimbu; Kubo, Yutaka; and Mizuno, Hirotaka, 4,682,300, Cl. 364-571.000.

Seto, Youichi; Homma, Koichi; Komura, Fuminobu; and Ota, Hideo, 4,695,964, Cl. 364-518.000.

Komura, Hirotsugu: *See—*

Yoshizawa, Kenji; Komura, Hirotsugu; Kodama, Hitoshi; Ohnuki, Kazushi; Shoda, Isao; Magome, Kazuo; and Ito, Hiroshi, 4,673,846, Cl. 315-248.000.

Komura, Makoto: *See—*

Sugiyama, Hiroyuki; Takahashi, Nobuaki; Shibamoto, Takeshi; Nishikawa, Kazunori; Ueno, Shoji; Komura, Makoto; and Shichijo, Shunichi, 4,660,099, Cl. 358-342.000.

Sugiyama, Hiroyuki; Takahashi, Nobuaki; Shibamoto, Takeshi; Nishikawa, Kazunori; and Komura, Makoto, 4,660,100, Cl. 358-342.000.

Sugiyama, Hiroyuki; Komura, Makoto; Masuda, Isao; Nishikawa, Kazunori; and Iwasaki, Yoshiki, 4,667,318, Cl. 369-59.000.

Sugiyama, Hiroyuki; Takahashi, Nobuaki; Shibamoto, Takeshi; Nishikawa, Kazunori; and Komura, Makoto, 4,692,816, Cl. 358-342.000.

Komura, Osamu: *See—*

Higuchi, Matsuo; Komura, Osamu; and Kamijo, Eiji, 4,702,869, Cl. 264-65.000.

Sekiguchi, Yukio; Funakubo, Hiroyasu; Sakanoue, Hitoyuki; and Komura, Osamu, 4,709,844, Cl. 228-3.100.

Komurasaki, Keiichi; Iwatani, Shiro; and Nishimura, Shinji, to Mitsubishi Denki Kabushiki Kaisha. Apparatus for controlling generator for vehicle. 4,680,529, 7-14-87, Cl. 322-28.000.

Komurasaki, Keiichi; Wada, Hifumi; and Nishimura, Shinji, to Mitsubishi Denki Kabushiki Kaisha. Control apparatus for vehicle battery charging generator. 4,689,545, 8-25-87, Cl. 322-14.000.

Komurasaki, Keiichi: *See—*

Nishimura, Shinji; Wada, Hifumi; and Komurasaki, Keiichi, 4,651,081, Cl. 320-64.000.

Nishimura, Shinji; Wada, Hifumi; and Komurasaki, Keiichi, 4,686,446, Cl. 322-33.000.

Komurasaki, Satoshi: *See—*

Iwata, Toshio; Komurasaki, Satoshi; and Ueda, Atsushi, 4,635,604, Cl. 123-425.000.

Komuro, Isaku; and Sano, Yoshikazu, to Kabushiki Kaisha Toshiba. Key telephone system. 4,650,932, 3-17-87, Cl. 379-164.000.

Komuro, Katsu: *See—*

Hokari, Sadao; Hori, Takamasa; Komuro, Katsu; Hatakeyama, Takanobu; Narita, Toshiroo; Katayama, Yasunori; and Arahori, Noboru, 4,661,757, Cl. 318-798.000.

Komuro, Katsusuke, to Honda Giken Kogyo Kabushiki Kaisha. Rear seat cover for vehicles having a saddle-shaped seat. 4,679,647, 7-14-87, Cl. 180-219.000.

Komuro, Katsusuke, to Honda Giken Kogyo Kabushiki Kaisha. Instrument display system. 4,687,072, 8-18-87, Cl. 180-219.000.

Komuro, Katsusuke: *See—*

Nebu, Hideaki; Komuro, Katsusuke; and Yamada, Toshiyuki, 4,699,232, Cl. 180-219.000.

Komuro, Matahiro; Kozono, Yuzo; Yasuda, Takeshi; Narishige, Shinji; Hanazono, Masanobu; and Kuroda, Tetsuro, to Hitachi, Ltd. Multilayered ferromagnetic film and method of manufacturing the same. 4,698,273, 10-6-87, Cl. 428-635.000.

Komuro, Toshio, to Sony Corporation. Cassette tape player combined with a radio receiver which has multiple push buttons such that the stop push button can be used to turn off either the cassette tape player or the radio receiver. 4,641,293, 2-3-87, Cl. 369-6.000.

Kon, Shigeki, to Tachikawa Spring Co., Ltd. Trim cover assembly for a vehicle seat. 4,663,211, 5-5-87, Cl. 428-167.000.

Kon, Shigeki, to Tachikawa Spring Co., Ltd. Trim cover assembly for vehicle seats. 4,686,130, 8-11-87, Cl. 428-71.000.

Kon, Takao; Yano, Kensaku; Kakegawa, Masayuki; and Shibata, Hidenori, to Kabushiki Kaisha Toshiba. Solid state image sensor with means for removing excess photocharges. 4,688,098, 8-18-87, Cl. 358-213.190.

Kon, Terrance A.: *See—*

Lloyd, Mervin R.; and Kon, Terrance A., 4,715,174, Cl. 56-297.00

Kon, Toshiharu, to Nikkai Kensetsu Kabushiki Kaisha; and O.S.E. Kabushiki Kaisha. Method of stud welding and welding gun used therefor. 4,681,998, 7-21-87, Cl. 219-99.000.

Kon, Yasuhiro: *See—*

Yasunaga, Makoto; and Kon, Yasuhiro, 4,674,896, Cl. 400-124.00

Konabe, Kazuo: *See—*

Cope, Charles S.; Kitagawa, Katsunosuke; and Konabe, Kazuo, 4,639,337, Cl. 260-408.000.

Konagai, Makoto: *See—*

Kitabayashi, Motoi; Hayashi, Takuo; Ozawa, Norihiko; Hirasawa, Yukihiro; and Miyazawa, Naotoshi, 4,647,813, Cl. 313-509.000.

Konagaya, Masahiko: *See—*

Fujita, Susumu; and Konagaya, Masahiko, 4,660,954, Cl. 354-403.000.

Konagaya, Shigeji; Watanabe, Osamu; Kuzumoto, Hideshi; Tokai, Masaya; Narusawa, Haruhiko; and Kato, Yasuo, to Toyo Boseki Kabushiki Kaisha. Permselective membrane. 4,695,383, 9-22-87, Cl. 210-500.370.

Konai, Yutaka: *See—*

Enari, Hiroyuki; Konai, Yutaka; Akiba, Uichi; and Ito, Masayo, 4,668,815, Cl. 560-55.000.

Iizuka, Akira; Konai, Yutaka; Yamauchi, Takashi; and Hayashi, Shoichiro, 4,638,087, Cl. 562-467.000.

Konaka, Masami; Shigyo, Naoyuki; and Dang, Ryo, to Tokyo Shibaura Denki Kabushiki Kaisha. Method of manufacturing a MOS device wherein an insulating film is deposited in a field region. 4,651,411, 3-24-87, Cl. 29-576.00W.

Konaka, Shigeo: *See—*

Seo, Akira; Kanno, Hideo; Hasegawa, Nobu; Miyagi, Yukio; Nishimura, Akira; Konaka, Shigeo; Ohmi, Tetsuo; Munechika, Yukimi; Uchida, Matazaemon; and Ikeda, Kenichi, 4,636,519, Cl. 514-397.000.

Konaka, Yukio: *See—*

Yamamoto, Hisashi; and Konaka, Yukio, 4,673,381, Cl. 93-128.00

Konan Electric Co., Ltd.: *See—*

Mizutani, Masashi, 4,707,168, Cl. 55-274.000.

Konda, Ryuji, to Fuji Photo Film Co., Ltd. Solid-state image pickup device with photographic sensitivity characteristics. 4,682,20 7-21-87, Cl. 357-51.000.

Kondensatoren der Starkstromtechnik GmbH: *See—*

Harpaintner, Alfons, 4,665,377, Cl. 338-195.000.

Kondis, Tom. Aluminum particles resistant to reaction with water. 4,693,754, 9-15-87, Cl. 106-290.000.

Kondo, Akihiro; Tsushima, Rikio; and Sumida, Yuzo, to Kao Corporation. Dispersion stabilizer for water-in-oil suspension polymerization. 4,639,491, 1-27-87, Cl. 524-801.000.

Kondo, Akinobu: *See—*

Nakamura, Kazuharu; Matsumoto, Motoki; Kondo, Akinobu; and Ito, Kiyonobu, 4,710,125, Cl. 431-22.000.

Kondo, Akira: *See—*

Kato, Yasuki; Hayakawa, Eiji; Furuya, Kunitoshi; and Kondo, Akira, 4,675,183, Cl. 424-85.000.

Kondo, Bunji: *See—*

Kuwahara, Hideyuki; Kondo, Bunji; Takada, Jun; Yanagihara, Kenji; Kimura, Mituo; and Ninomi, Masahiro, 4,701,301, Cl. 419-21.000.

Kondo, Eiji; Kawamura, Yoshimi; Konishi, Takao; Matsumoto, Koichi; and Shoji, Junichi, to Shionogi & Co., Ltd. Antibiotics DO-248-A and B and process for preparing the same. 4,647,693, 3-3-87, Cl. 562-439.000.

Kondo, Eiji: *See—*

Tanaka, Kentaro; Kondo, Eiji; Matsumoto, Kouichi; and Tsuji, Naoki, 4,647,408, Cl. 540-350.000.

Kondo, Fumitomo: *See—*

Iwai, Hideo; Kondo, Fumitomo; and Kimura, Akio, 4,656,878, Cl. 74-89.150.

Tamaki, Hiroshi; Kondo, Fumitomo; and Sugai, Hiroo, 4,666,299, Cl. 356-138.000.

Kondo, Haruyoshi: *See—*

Takahashi, Hideaki; Kondo, Haruyoshi; Takeuchi, Takashi; and Hayakawa, Kiyoharu, 4,661,234, Cl. 204-406.000.

Kondo, Hideki; Shimizu, Noburu; and Kanemitsu, Yoichi, to Ebara Corporation. Gas rotary machine. 4,688,989, 8-25-87, Cl. 415-122.00R.

Kondo, Hidetoshi; and Koshii, Taro, to Toray Silicone Co., Ltd. Method for producing an aqueous silicone emulsion composition. 4,677,160, 6-30-87, Cl. 524-860.000.

Kondo, Hiroatsu; Ozawa, Toshiaki; and Yamada, Yasuaki, to Canon Kabushiki Kaisha. Ink ribbon cassette. 4,655,624, 4-7-87, Cl. 400-208.000.

Kondo, Hiroatsu, to Canon Kabushiki Kaisha. Paper feed mechanism. 4,657,420, 4-14-87, Cl. 400-625.000.

Kondo, Hiroatsu; and Yamamoto, Yasukiyo, to I. M. Electronics Co., Ltd. Magnetic card discriminator. 4,659,914, 4-21-87, Cl. 235-380.000.

Kondo, Hiroatsu, to Canon Kabushiki Kaisha. Recording apparatus. 4,676,679, 6-30-87, Cl. 400-211.000.

Kondo, Hiroatsu: *See—*

Ozawa, Toshiaki; Yamada, Yasuaki; and Kondo, Hiroatsu, 4,640,634, Cl. 400-144.200.

Kondo, Hirofumi, to Kabushiki Kaisha Toshiba. Floor system for seismic isolation. 4,662,133, 5-5-87, Cl. 52-167.000.

Kondo, Hirokazu; and Takino, Shigekatsu, to Tsubakimoto Chain Co. Trolley device in a duplex chain conveyor. 4,646,650, 3-3-87, Cl. 104-172.300.

Kondo, Hirokazu: *See—*
- Yokoi, Satoru; and Kondo, Hirokazu, 4,692,694, Cl. 324-158.00F.

Kondo, Hirosato: *See—*
- Uno, Toshio; Taguchi, Masahiro; Okuno, Toshimi; Kondo, Hirosato; Sotomura, Mikio; and Tsukamoto, Goro, 4,686,221, Cl. 514-254.000.

Kondo, Hiroshi, to Yoshida Kogyo K.K. Seal structure between respective end portions of curtain wall units and building wall. 4,646,478, 3-3-87, Cl. 52-235.000.

Kondo, Hiroshi; and Okada, Tadao, to Yamaha Hatsudoki Kabushiki Kaisha. Chain and shaft drive for balloon tired motorcycle. 4,662,471, 5-5-87, Cl. 180-226.000.

Kondo, Hiroshi, to Toko, Inc. Pulse delay circuit device. 4,691,120, 9-1-87, Cl. 307-265.000.

Kondo, Hiroshi: *See—*
- Ichikawa, Sadao; Yokoi, Shinichi; Yasuhara, Seishi; and Kondo, Hiroshi, 4,635,594, Cl. 123-179.0BG.
- Ohe, Junzo; and Kondo, Hiroshi, 4,679,052, Cl. 343-712.000.
- Ohe, Junzo; and Kondo, Hiroshi, 4,707,701, Cl. 343-712.000.
- Yokoi, Shinichi; Itoh, Tsuneo; Yasuhara, Seishi; and Kondo, Hiroshi, 4,661,686, Cl. 219-270.000.

Kondo, Hitoshi: *See—*
- Hirata, Yasushi; Kondo, Hitoshi; Kono, Masanao; and Sanada, Yasuyoshi, 4,665,119, Cl. 524-399.000.
- Hirata, Yasushi; Kondo, Hitoshi; Otomo, Shigemitsu; and Ueda, Hisahito, 4,675,355, Cl. 524-236.000.
- Hirata, Yasushi; Kondo, Hitoshi; Yokoyama, Goro; and Ohara, Masaki, 4,690,965, Cl. 524-236.000.

Kondo, Ikuzo: *See—*
- Nomura, Etuzo; Sakakibara, Yasuo; Kozawa, Tetsuo; Nishida, Yukio; and Kondo, Ikuzo, 4,712,497, Cl. 112-315.000.

Kondo, Isao; and Koguro, Yasuyuki, to Marui Industry Co., Ltd. Synthetic resin vehicle wheel cover. 4,707,035, 11-17-87, Cl. 301-37.00P.

Kondo, Junji, to Nippon Thompson Co., Ltd. Ball spline bearing assembly. 4,655,611, 4-7-87, Cl. 384-45.000.

Kondo, Katsumi; Tsuchiya, Yasuhiro; Niimi, Takatsune; Yamamoto, Takashi; and Matsuba, Kunihiro, to Toyota Jidosha Kabushiki Kaisha. Method for joining a fiber-reinforced plastic structure. 4,681,647, 7-21-87, Cl. 156-172.000.

Kondo, Katsumi: *See—*
- Yamazawa, Yasushi; Kondo, Katsumi; Tsutiya, Yasuhiro; Niimi, Takatsune; Yamamoto, Takashi; and Matsuba, Kunihiro, 4,673,451, Cl. 156-172.000.

Kondo, Katsuya: *See—*
- Tahara, Akihiro; and Kondo, Katsuya, 4,633,693, Cl. 72-8.000.

Kondo, Kazuo; and Okuyama, Masahiko, to NGK Spark Plug Co., Ltd. Glaze ceramic base. 4,634,634, 1-6-87, Cl. 428-432.000.

Kondo, Kazuo; and Sukegawa, Tsuneyuki, to NGK Spark Plug Co., Ltd. Substrate for an integrated circuit. 4,649,070, 3-10-87, Cl. 428-209.000.

Kondo, Kazuo; and Maruyama, Satoshi, to Okura Industrial Co., Ltd. Method of producing biaxially oriented tubular polyetheretherketone films. 4,687,615, 8-18-87, Cl. 264-557.000.

Kondo, Kazuo; Ishiguro, Nobuya; and Tada, Teruo, to Okura Industrial Co., Ltd. Heat-shrinkable composite packaging film. 4,695,491, 9-22-87, Cl. 428-35.000.

Kondo, Kazuo: *See—*
- Nishino, Yoshinori; Yamamoto, Masahiko; Uda, Tadayoshi; Kondo, Kiyoshi; Kondo, Yutaka; and Kondo, Kazuo, 4,709,714, Cl. 134-89.000.
- Niwa, Shigeo; Kondo, Kazuo; and Betsuki, Katsutoshi, 4,685,919, Cl. 623-21.000.
- Shibata, Akira; Kondo, Kazuo; and Hirose, Koichi, 4,689,579, Cl. 330-257.000.

Kondo, Kazuyoshi: *See—*
- Hiraishi, Shigetoshi; Kondo, Kazuyoshi; and Banba, Takashi, 4,644,374, Cl. 346-209.000.

Kondo, Kenji; Hattori, Tadashi; Atsumi, Kinya; and Nishida, Minoru, to Nippon Soken, Inc. Machine oil deterioration detection. 4,675,662, 6-23-87, Cl. 340-631.000.

Kondo, Kenji; Katsuyama, Shigeru; Akahane, Shoji; and Tomioka, Kentaro, to G-C Dental Industrial Corp. Color-changeable cement composition for dental use. 4,678,436, 7-7-87, Cl. 433-228.100.

Kondo, Kenshi, to Nihon Den-Netsu Keiki Co., Ltd. Apparatus for fuse-bonding articles. 4,679,721, 7-14-87, Cl. 228-40.000.

Kondo, Kenshi, to Nihon Den-Netsu Keiki Co., Ltd. Vapor phase soldering apparatus. 4,681,249, 7-21-87, Cl. 228-37.000.

Kondo, Kenshi, to Nihon Den-Netsu Keiki Co. Ltd. Apparatus for soldering printed circuit boards. 4,712,963, 12-15-87, Cl. 414-222.000.

Kondo, Kiyoshi; Matsui, Kiyohide; Negishi, Akira; and Takahatake, Yuriko, to Sagami Chemical Research Center. Process for preparing dihalovinylcyclopropanecarboxylates. 4,681,953, 7-21-87, Cl. 549-65.000.

Kondo, Kiyoshi; Kataoka, Fukuhiko; and Uno, Kiyotaka, to Nippon Kokan Kabushiki Kaisha. Dynamic vibration absorber with spring-supported pendulum. 4,700,817, 10-20-87, Cl. 188-380.000.

Kondo, Kiyoshi; Takashima, Toshiyuki; and Suda, Minoru, to FMC Corporation. 3,4-dihydro-4,4-dimethyl-2H-pyran-2-one, an insecticide intermediate. 4,701,539, 10-20-87, Cl. 549-294.000.

Kondo, Kiyoshi: *See—*
- Matsui, Kiyohide; Kikuchi, Yoshiyuki; Hiyama, Tamejiro; Tobita, Etsuko; and Kondo, Kiyoshi, 4,661,231, Cl. 204-252.000.
- Nishino, Yoshinori; Yamamoto, Masahiko; Uda, Tadayoshi; Kondo, Kiyoshi; Kondo, Yutaka; and Kondo, Kazuo, 4,709,714, Cl. 134-89.000.

Kondo, Kiyosi: *See—*
- Matsui, Kiyohide; Kikuchi, Yoshiyuki; Hiyama, Tamejiro; Tobita, Etsuko; Kondo, Kiyosi; Akimoto, Akira; Seita, Toru; and Watanabe, Hiroyuki, 4,659,744, Cl. 521-32.000.

Kondo, Koshi, to Agency of Industrial Science & Technology, Ministry of International Trade & Industry. Wave gear drive and gear generating method. 4,703,670, 11-3-87, Cl. 74-640.000.

Kondo, Kunio; Haga, Katutoshi; Haga, Minoru; Kato, Yasuo; and Kaneko, Shinobu, to Fuji Seiko Limited; and Toyota Jidosha Kabushiki Kaisha. Holder for rotary cutting tools. 4,642,005, 2-10-87, Cl. 409-232.000.

Kondo, Kunio; Haga, Katutoshi; Kurumiya, Tadashi; Haga, Minoru; Kato, Yasuo; and Kaneko, Shinobu, to Fuji Seiko Limited; and Toyota Jidosha Kabushiki Kaisha. Holder for rotary cutting tools. 4,643,623, 2-17-87, Cl. 409-232.000.

Kondo, Masahiro: *See—*
- Miyake, Akio; Kondo, Masahiro; and Fujino, Masahiko, 4,665,065, Cl. 574-202.000.
- Ooyabu, Shinji; Suzuki, Kazuo; Kondo, Masahiro; and Nakamura, Hirotoshi, 4,653,460, Cl. 123-645.000.

Kondo, Michimasa: *See—*
- Kirimoto, Tetsuo; Kondo, Michimasa; and Fujisaka, Takahiko, 4,656,479, Cl. 342-94.000.

Kondo, Mikio: *See—*
- Suzuki, Muneo; Kondo, Mikio; Morimoto, Makoto; and Kayanuki, Kazuhito, 4,672,206, Cl. 250-342.000.

Kondo, Mitsuo, to Fuji Photo Optical Co., Ltd. Air feed control device for an endoscope. 4,694,821, 9-22-87, Cl. 128-4.000.

Kondo, Mitsuru; Okimoto, Tomoyuki; and Kanda, Nobuo, to Kanzaki Paper Manufacturing Co., Ltd. Recording system utilizing phthalide derivatives as colorless chromogenic material. 4,641,160, 2-3-87, Cl. 346-220.000.

Kondo, Mitsuru, to Ricoh Company, Ltd. Facsimile communication control method. 4,661,857, 4-28-87, Cl. 358-257.000.

Kondo, Mitsuru, to Ricoh Company, Ltd. Facsimile apparatus. 4,706,126, 11-10-87, Cl. 358-257.000.

Kondo, Mitsuru: *See—*
- Kanda, Nobuo; Horiike, Tetsuro; and Kondo, Mitsuru, 4,658,276, Cl. 346-220.000.
- Omatsu, Masayuki; Yonese, Naoki; and Kondo, Mitsuru, 4,713,488, Cl. 564-397.000.
- Sh[illegible]i, Shunsuke; Shinmitsu, Kazuyuki; Kanda, Nobuo; Kondo, Mitsuru; and Miyake, Makoto, 4,704,379, Cl. 503-211.000.

Kondo, Mitsushige: *See—*
- Fujita, Teruo; Kono, Keizo; Kondo, Mitsushige; and Shikama, Shinsuke, 4,672,187, Cl. 250-201.000.

Kondo, Motoe: *See—*
- Nakahara, Takafumi; Fujiwara, Makoto; Kondo, Motoe; Miyawaki, Yoshiharu; Hanmyo, Masayuki; Kinoshita, Shinya; Matsui, Masao; Tamura, Kounshin; and Murata, Susumu, 4,671,752, Cl. 425-7.000.

Kondo, Naohiko: *See—*
- Ito, Yuuji; Shibata, Tadahiko; Sakai, Masahiko; Ota, Yukio; Kondo, Naohiko; and Matuyama, Harukazu, 4,659,323, Cl. 493-457.000.

Kondo, Nobuaki, to Nissan Motor Co., Ltd. Seat mounting arrangement. 4,685,716, 8-11-87, Cl. 296-63.000.

Kondo, Nobuaki, to Nissan Motor Co., Ltd. Rear seat apparatus of a trunk through type. 4,708,385, 11-24-87, Cl. 296-65.00R.

Kondo, Nobuaki: *See—*
- Matsuda, Koichi; Kondo, Nobuaki; and Tanaka, Yuji, 4,635,890, Cl. 248-429.000.

Kondo, Noriyuki: *See—*
- Kikkawa, Atsushi; Kondo, Noriyuki; and Tamada, Atsushi, 4,659,936, Cl. 250-560.000.
- Kikkawa, Atsushi; and Kondo, Noriyuki, 4,676,647, Cl. 356-382.000.

Kondo, Osamu: *See—*
- Ishii, Seiji; Miyoshi, Masanori; Ishiwaka, Takumi; and Kondo, Osamu, 4,647,596, Cl. 521-129.000.

Kondo, Ryoji, to Nippondenso Co., Ltd. Spark plug and method of manufacturing the same. 4,699,600, 10-13-87, Cl. 445-7.000.

Kondo, Ryuji; Murayama, Jin; Shizukuishi, Makoto; Tamayama, Hiroshi; and Yano, Takashi, to Fuji Photo Film Co., Ltd. Solid state imaging apparatus and solid state photosensor arrangement. 4,668,990, 5-26-87, Cl. 358-213.230.

Kondo, Ryuji: *See—*
- Hagiwara, Takaaki; Itoh, Yokichi; Kondo, Ryuji; Yasuda, Yuji; and Minami, Shinichi, 4,654,828, Cl. 365-184.000.
- Murayama, Jin; Kondo, Ryuji; Tamayama, Hiroshi; Yano, Takashi; and Shizukuishi, Makoto, 4,686,573, Cl. 358-213.220.

Kondo, Seiji: *See—*
- Kubota, Kazuhiro; and Kondo, Seiji, 4,685,431, Cl. 123-198.0DB.

Kondo, Shigeo: *See—*
- Yoshiike, Nobuyuki; and Kondo, Shigeo, 4,711,815, Cl. 428-411.100.

Kondo, Shigeru, to Asahi Kogaku Kogyo Kabushiki Kaisha. Variable focal length, automatic focusing camera with a single motor. 4,696,559, 9-29-87, Cl. 354-403.000.

Kondo, Shigeyuki, to NEC Corporation. Device for modifying program duration on a tape player. 4,716,473, 12-29-87, Cl. 360-9.100.

Kondo, Shigeyuki: *See—*

Sekiguchi, Toru; and Kondo, Shigeyuki, 4,663,679, Cl. 360-73.000.

Kondo, Shinichi: *See—*

Ogawa, Toshio; Kondo, Shinichi; Umemura, Shinichiro; and Katakura, Kageyoshi, 4,679,176, Cl. 367-119.000.

Umezawa, Hamao; Takeuchi, Tomio; Kondo, Shinichi; Iinuma, Hironobu; Ikeda, Daishiro; Nakamura, Teruya; and Fujii, Akio, 4,658,058, Cl. 564-159.000.

Umezawa, Hamao; Takeuchi, Tomio; Kondo, Shinichi; Tanaka, Wataru; Takita, Tomohisa; Nishimura, Yoshio; and Yoshikawa, Hiroshi, 4,716,221, Cl. 536-17.200.

Kondo, Shiro; and Sawada, Kenji, to Alps Electric Co., Ltd. Composite switch. 4,659,880, 4-21-87, Cl. 200-5.00R.

Kondo, Shiro: *See—*

Ito, Akinori; Akazawa, Michitada; and Kondo, Shiro, 4,702,307, Cl. 165-42.000.

Mizuta, Ken; and Kondo, Shiro, 4,689,537, Cl. 318-568.000.

Mizuta, Ken; and Kondo, Shiro, 4,698,571, Cl. 318-568.000.

Kondo, Shizuo: *See—*

Furihata, Makoto; Ogura, Setsuo; Kondo, Shizuo; and Minamimura, Eiji, 4,670,859, Cl. 365-104.000.

Ogura, Setsuo; Kondo, Shizuo; Minamimura, Eiji; and Furihata, Makoto, 4,659,947, Cl. 307-466.000.

Okabe, Takahiro; Hayashi, Makoto; Morisuye, Katuhiro; Watanabe, Tomoyuki; Washio, Katsuyoshi; Ogura, Setsuo; Furihata, Makoto; and Kondo, Shizuo, 4,697,102, Cl. 307-454.000.

Kondo, Shoji; and Taniguchi, Tadashi, to Hitachi Medical Corporation. Data collector for use with scintillation camera or the like. 4,652,760, 3-24-87, Cl. 250-363.00S.

Kondo, Susumu: *See—*

Takakura, Makoto; Kondo, Susumu; and Nogami, Tatsuya, 4,666,742, Cl. 427-229.000.

Kondo, Tadami: *See—*

Nishida, Hisato; and Kondo, Tadami, 4,674,347, Cl. 74-359.000.

Kondo, Tadashi; and Yabe, Kiyoshi, to Mitsubishi Denki Kabushiki Kaisha. Spring operating mechanism for an electrical switch. 4,681,993, 7-21-87, Cl. 200-153.0SC.

Kondo, Takashi: *See—*

Tamura, Masafumi; Uchiyama, Arisa; Kondo, Takashi; and Kageyama, Satoshi, 4,709,264, Cl. 358-93.000.

Kondo, Takeshi; Maruta, Masamichi; and Oshio, Hideki, to Central Glass Company, Limited. Method of preparing trifluoroacetic acid from trichlorotrifluoroethane. 4,647,695, 3-3-87, Cl. 562-605.000.

Kondo, Tatsuhei; Ito, Kaname; Ikeda, Shoichiro; Umeno, Masayoshi; and Ichikawa, Kenji, to Koichi Sakurai. Non-contact controlled micropump. 4,673,391, 6-16-87, Cl. 604-141.000.

Kondo, Tatsunori: *See—*

Nagashima, Yoichi; Kondo, Tatsunori; Takauji, Kiyomi; and Kitamura, Mineo, 4,635,517, Cl. 84-1.010.

Nagashima, Yoichi; Kondo, Tatsunori; Takauji, Kiyomi; Kitamura, Mineo; Matsushima, Tadashi; Nagashima, Eiji; and Mizoguchi, Masafumi, 4,638,706, Cl. 84-1.010.

Nagashima, Yoichi; Kondo, Tatsunori; Takauji, Kiyomi; Kitamura, Mineo; Matsushima, Tadashi; Nagashima, Eiji; and Mizoguchi, Masafumi, 4,638,709, Cl. 84-1.190.

Nagashima, Yoichi; Kondo, Tatsunori; Takauji, Kiyomi; Kitamura, Mineo; Matsushima, Tadashi; Nagashima, Eiji; and Mizoguchi, Masafumi, 4,646,611, Cl. 84-1.190.

Takauji, Kiyomi; and Kondo, Tatsunori, 4,700,603, Cl. 84-1.190.

Kondo, Tetsujiro, to Sony Corporation. Apparatus for detecting a movement of a digital television signal. 4,661,846, 4-28-87, Cl. 358-165.000.

Kondo, Tetsujiro, to Sony Corporation. Method for detecting a movement of a television signal. 4,677,476, 6-30-87, Cl. 358-105.000.

Kondo, Tetsujiro, to Sony Corporation. Apparatus for an efficient coding of television signals. 4,703,351, 10-27-87, Cl. 358-135.000.

Kondo, Tetsujiro, to Sony Corporation. High efficiency technique for coding a digital video signal. 4,703,352, 10-27-87, Cl. 358-135.000.

Kondo, Tetsujiro, to Sony Corporation. Highly efficient coding apparatus for a digital video signal. 4,710,811, 12-1-87, Cl. 358-135.000.

Kondo, Tetsuo: *See—*

Umemoto, Yonetsugu; Shirasawa, Hiroshi; Ogo, Muneya; Kinoshita, Kazumasa; and Kondo, Tetsuo, 4,690,581, Cl. 403-133.000.

Kondo, Tetsuro; and Ueda, Tsuyoshi, to Mazda Motor Corporation. Vehicle body conveyance in assembly line. 4,693,358, 9-15-87, Cl. 198-339.100.

Kondo, Tetsuya: *See—*

Kunikawa, Norihide; Kondo, Tetsuya; Ohba, Yasumasa; and Matsuoka, Michihiro, 4,647,191, Cl. 355-56.000.

Kunikawa, Norihide; Kondo, Tetsuya; Ohba, Yasumasa; and Matsuoka, Michihiro, 4,693,595, Cl. 355-77.000.

Kondo, Tokuji: *See—*

Tatematsu, Kazuhisa; Kondo, Tokuji; Sasaki, Shiro; and Kawamatsu, Koji, 4,666,208, Cl. 297-341.000.

Kondo, Toshio; and Kuroda, Masao, to Hitachi Medical Corporation. Phasing circuit for use in a scanning type ultrasonic equipment. 4,643,028, 2-17-87, Cl. 73-625.000.

Kondo, Toshio; Kobayashi, Akio; Hiromasa, Shunichiro; Masuda, Akira; and Miyaki, Masahiko, to Nippondenso Co., Ltd. Apparatus for measuring a flow rate of intake air for an engine. 4,649,745, 3-17-87, Cl. 73-204.000.

Kondo, Toshio; and Sato, Yutaka, to Hitachi Medical Corporation. Ultrasonic probe. 4,653,504, 3-31-87, Cl. 128-660.000.

Kondo, Toshio: *See—*

Adachi, Yoshiharu; Fujimori, Fumio; Kondo, Toshio; Uemura, Hiroshi; and Shibatani, Juichi, 4,662,484, Cl. 188-73.450.

Adachi, Yoshiharu; Fujimori, Fumio; Kondo, Toshio; Uemu
Hiroshi; and Shibatani, Juichi, 4,678,064, Cl. 188-73.450.

Inoue, Hidehiko; Kondo, Toshio; and Isomura, Shigeno
4,646,698, Cl. 123-478.000.

Kondo, Tsuneo: *See—*

Matsuo, Kazuhiko; Hasegawa, Teruyuki; Kuwano, Seigo; Yamag
chi, Ryuji; Shiwata, Akio; Hamada, Yoneichi; Komatsu, Y
shimi; Kondo, Tsuneo; Shirotani, Yusuke; Nakashima, Hirohi
and Matsuda, Yasuhiro, 4,674,101, Cl. 373-95.000.

Nakashima, Hirohisa; Komatsu, Yoshimi; Ikeda, Masafumi; a
Kondo, Tsuneo, 4,652,306, Cl. 75-10.170.

Nakashima, Hirohisa; Komatsu, Yoshimi; Ikeda, Masafumi; a
Kondo, Tsuneo, 4,652,308, Cl. 75-49.000.

Kondo, Yoshihito, to Shikoku Kakooki Co., Ltd. Web folding appar
tus for packaging machine. 4,650,455, 3-17-87, Cl. 493-454.000.

Kondo, Yoshihito: *See—*

Shibata, Masato; Eguchi, Mamoru; and Kondo, Yoshihit
4,637,200, Cl. 53-551.000.

Kondo, Yoshiteru, to USM Corporation. Monitoring stud-weldin
phototransistor responds to arc light. 4,672,174, 6-9-87, C
219-130.010.

Kondo, Yukio: *See—*

Ohtaka, Shoichi; Miyano, Hideyo; Nuiya, Yoshio; and Kond
Yukio, 4,667,647, Cl. 123-573.000.

Kondo, Yutaka: *See—*

Nishino, Yoshinori; Yamamoto, Masahiko; Uda, Tadayos
Kondo, Kiyoshi; Kondo, Yutaka; and Kondo, Kazuo, 4,709,7
Cl. 134-89.000.

Kondoh, Hiroshi: *See—*

Dalman, G. Conrad; and Kondoh, Hiroshi, 4,680,538, Cl. 12
58.00R.

Kondoh, Hisao: *See—*

Nishizawa, Jun-ichi; and Kondoh, Hisao, 4,673,961, Cl. 357-22.0

Kondoh, Hitoshi; and Sueda, Akihiro, to Kabushiki Kaisha Toshi
Semiconductor integrated circuit device constructed by polyc
technique. 4,716,452, 12-29-87, Cl. 357-68.000.

Kondoh, Masahiko; and Matsuoka, Hiroshi, to Fuji Photo Film C
Ltd. Device for enlarging and projecting microfilm image. 4,708,46
11-24-87, Cl. 355-45.000.

Kondoh, Masami: *See—*

Oshizawa, Hidekazu; and Kondoh, Masami, 4,679,116, C
361-154.000.

Kondoh, Minoru: *See—*

Yoshimoto, Yoshio; Kondoh, Minoru; and Terada, Yoshiyu
4,703,240, Cl. 318-587.000.

Kondoh, Yoshiyuki; and Ishidoh, Takanobu, to Sony Corporatio
Digital signal transmitting and/or receiving system. 4,656,629, 4-7-8
Cl. 370-85.000.

Kondoh, Yoshiyuki: *See—*

Ishidoh, Takanobu; and Kondoh, Yoshiyuki, 4,710,921, C
370-110.100.

Kondoh, You; and Tanuma, Chiaki, to Kabushiki Kaisha Toshib
Displacement generating device. 4,689,514, 8-25-87, Cl. 310-316.00

Kondou, Eiichirou: *See—*

Mizuno, Keisuke; Kondou, Eiichirou; Tahara, Kenji; a
Sekikawa, Ayako, 4,656,059, Cl. 427-345.000.

Kondou, Masakazu; and Nishiguchi, Takashi, to Hitachi, Ltd. Cutti
tool. 4,662,801, 5-5-87, Cl. 407-119.000.

Kondou, Takayoshi: *See—*

Okawa, Susumu; Jufuku, Yasunobu; Okuwaki, Shigeru; Kondo
Takayoshi; Endo, Toshiya; and Nakata, Shigenori, 4,655,734, C
474-242.000.

Kondou, Toshiyuki: *See—*

Ohue, Kazuto; Kondou, Toshiyuki; Takeuchi, Hisaharu; and Iked
Yuzo, 4,663,222, Cl. 428-224.000.

Ohue, Kazuto; Kondou, Toshiyuki; Takeuchi, Hisaharu; and Iked
Yuzo, 4,707,269, Cl. 210-651.000.

Kondow, Kiyohiro; Takasaka, Nobuo; and Hida, Yoshinori, to Sh
Etsu Chemical Co., Ltd. Quartz glass-made optical fibers coated w
a silicone composition. 4,660,927, 4-28-87, Cl. 350-96.340.

Kondow, Kiyohiro; Mihama, Takeshi; Hara, Yasuaki; Aoki, Hisas
and Hasebe, Nobuyuki, to Shin-Etsu Chemical Co., Ltd. Curab
organopolysiloxane composition. 4,689,384, 8-25-87, Cl. 528-15.00

Kondracki, Henry C.: *See—*

DuBrucq, Denyse C.; and Kondracki, Henry C., 4,633,885, C
128-736.000.

Kondraske, George V.; and Shennib, Adnan, to Board of Regents, T
University of Texas System. Character pattern recognition and co
munications apparatus. 4,674,112, 6-16-87, Cl. 379-96.000.

Kondratiev, Igor F.: *See—*

Sorochenko, Oleg A.; and Kondratiev, Igor F., 4,711,239, C
128-303.140.

Kone Elevator GmbH: *See—*

Otala, Matti, 4,700,810, Cl. 187-101.000.

Kone Instruments Inc.: *See—*

Deluhery, James G.; and Truitt, Peter G., 4,705,044, Cl. 12
419.00D.

Kone Oy: *See—*

Antikainen, Jorma; Olsoni, Yrjo; and Valimaki, Pentti, 4,693,3
Cl. 198-509.000.

Caillet, Rene, 4,655,004, Cl. 49-280.000.

Kimmo, Kayhko; and Helenius, Kari H., 4,690,900, Cl. 436-47.0

Ronka, Pekka; and Vaintola, Raimo, 4,636,477, Cl. 436-48.000.

Konecny, Karl F., to Hewlett-Packard Company. Variable reluctan
motor with reduced torque ripple. 4,647,802, 3-3-87, Cl. 310-49.00

Konecsny, Helmut: *See*—
  Musselmann, Walter; and Konecsny, Helmut, 4,641,790, Cl 241-46.170.
  Musselmann, Walter; and Konecsny, Helmut, 4,646,979, Cl 241-46.170.

Konekamp, Werner: *See*—
  Clostermeyer, Gerhard; Konekamp, Werner; and Tooten, Karl-Heinz, 4,635,543, Cl 100-89.000.

Konersmann, Erhard, to Werkzeugmaschinenfabrik Oerlikon-Buhrle AG. Apparatus for measuring the vibrations of a spiral bevel gear drive on a gear testing machine. 4,672,850, 6-16-87, Cl 73-593.000.

Koneval, Donald J.: *See*—
  Kodama, Roy K., and Koneval, Donald J., 4,683,894, Cl 128-675.000.

Kong, Robert L.: *See*—
  Krieger, Charles F.; Schultz, Wilbur L.; and Kong, Robert L., 4,667,293, Cl 364-409.000.

Kong, Samuel K., to Advanced Micro Devices, Inc. Three voltage level detector for indicating a high level, mid-level or low level voltage. 4,714,877, 12-22-87, Cl 324-133.000.

Kong, Stephen B.: *See*—
  Hsieh, Chung-Lu; Kong, Stephen B.; Steichen, Dale S.; and Wheeler, Harold R., 4,655,781, Cl 8-111.000.

Kongo Co., Ltd.: *See*—
  Ueno, Yutaka; Tsuchida, Toyohiko; and Matsuoka, Akira, 4,668,154, Cl 414-607.000.

Kongsberg Vapenfabrikk: *See*—
  Mowill, Rolf J., and Skoe, Ivar H., 4,657,481, Cl 415-151.000.
  Stroem, Sigmunn, 4,651,534, Cl 60-732.000.

Kongskilde Koncernselskab A/S: *See*—
  Hansen, Jens O. E., 4,695,206, Cl 406-65.000.
  Jensen, Finn U. H., 4,648,465, Cl 172-551.000.

Kongslie, Keith F.: *See*—
  Van Nice, H. Lee; Bostwick, Myron A., Jr.; and Kongslie, Keith F., 4,713,520, Cl 219-121.0LC.

Koni B.V.: *See*—
  De Bruijn, Alexis M. R., 4,673,068, Cl 188-315.000.

Konicek, Lawrence R.; Case, Steven K.; and Kackman, Gerald M., to TeleMeter Corporation. Optical sensor apparatus and method for remotely monitoring a utility meter or the like. 4,680,704, 7-14-87, Cl 364-525.000.

Konicka, Alfred: *See*—
  Kerschbaum, Kurt; and Konicka, Alfred, 4,716,000, Cl 264-83.000.

Konig, Axel: *See*—
  Dekker, Bob; Konig, Axel; Straathof, Theodericus J.; and Gosselink, Eugene P., 4,661,267, Cl 252-8.800.

Konig, Charles E.: *See*—
  Skudera, William J., Jr., and Konig, Charles E., 4,647,863, Cl 329-112.000.

Konig, Dieter: *See*—
  Stamm, Wolfgang; and Konig, Dieter, 4,712,289, Cl 29-568.000.

Konig, Gerd: *See*—
  Meininger, Fritz; Mischke, Peter; Konig, Gerd; and Springer, Hartmut, 4,693,726, Cl 8-547.000.
  Springer, Hartmut; and Konig, Gerd, 4,659,856, Cl 558-26.000.

Konig, Gerhard; Fleck, Karl; Kess, Herbert; and Weigand, Artur, to Siemens Aktiengesellschaft. Cable coil holding assembly in a vacuum cleaner. 4,701,974, 10-27-87, Cl 15-323.000.

Konig, Heinz: *See*—
  Heinemann, Zoltan; and Konig, Heinz, 4,640,356, Cl 166-272.000.

Konig, Joachim; Suling, Carlhans; and Nachtkamp, Klaus, to Bayer Aktiengesellschaft. Aqueous dispersions of graft polymers or copolymers, a process for their production and their use as hydrophobizing and oleophobizing agents for textiles. 4,636,545, 1-13-87, Cl 524-457.000.

Konig, Joachim: *See*—
  Henning, Wolfgang; Meckel, Walter; Beck, Ulrich; Baumgen, Heinz; and Konig, Joachim, 4,670,100, Cl 162-135.000.

Konig, Johannes; Kurfurst, Wilhelm; Willers, Hans-Gunther; and Reuter, Martin, to Gewerkschaft Eisenhutte Westfalia. Methods of, and systems, for monitoring and/or controlling mobile cutting means. 4,688,937, 8-25-87, Cl 356-153.000.

Konig, Klaus; Pedain, Josef; and Woynar, Helmut, to Bayer Aktiengesellschaft. Process for the production of modified polyisocyanates, the compounds obtainable by this process and their use in polyurethane lacquers. 4,656,223, 4-7-87, Cl 52--871.000.

Konig, Klaus; and Heitkamper, Peter, to Bayer Aktiengesellschaft. 4,4'-diisocyanto-phenylbenzylether, a process for the preparation thereof and use in the production of polyurethane plastics. 4,657,940, 4-14-87, Cl 521-164.000.

Konig, Klaus: *See*—
  Dietrich, Manfred; Konig, Klaus; Hettel, Hans; Seifert, Peter; and Vehlewald, Peter, 4,668,734, Cl 524-714.000.
  Engbert, Theodor; Hammen, Gunter; Knofel, Hartmut; and Konig, Klaus, 4,692,550, Cl 560-345.000.
  Kopp, Richard; Grogler, Gerhard; Hess, Heinrich; and Konig, Klaus, 4,680,367, Cl 528-44.000.
  Pedain, Josef; Konig, Klaus; and Schonfelder, Manfred, 4,656,243, Cl 528-302.000.
  Pedain, Josef; Konig, Klaus; and Schonfelder, Manfred, 4,692,384, Cl 428-423.300.

Konig, Werner: *See*—
  Solleder, Otto; Flemming, Helmut; Konig, Werner; and Kleinschmit, Einhard, 4,699,230, Cl 180-73.100.

Konig, Wolfgang; Geiger, Rolf; Obermeier, Rainer; and Mullner, Hubert, to Hoechst Aktiengesellschaft. Process for the preparation of pentapeptides having an action on the immune system and intermediate products for this process. 4,658,016, 4-14-87, Cl 530-330.000.

Konig, Wolfgang; Engels, Joachim; Uhlmann, Eugen; and Wetekam, Waldemar, to Hoechst Aktiengesellschaft. Preparation of secretin. 4,711,847, 12-8-87, Cl 435-70.000.

Konigs, Wihelm: *See*—
  Funke, Peter; Hanus, Dietmar; Lob, Rainer; and Konigs, Wihelm, 4,676,935, Cl 264-0.500.

Konigshofen, Heinrich: *See*—
  Buding, Hartmuth; Konigshofen, Heinrich; Szentivanyi, Zsolt; and Thormer, Joachim, 4,675,248, Cl 428-398.000.

Koning, Richard W., to Deere & Company. Twine wrapping mechanism for a large round baler. 4,647,243, 3-3-87, Cl 403-61.000.

Koninger, Veit: *See*—
  Vinnemann, Antonius; and Koninger, Veit, 4,678,993, Cl 324-208.000.

Koningsberger, Diederik C.: *See*—
  Brinkgreve, Peter, and Koningsberger, Diederik C., 4,637,041, Cl 378-71.000.

Koninklijke Emballage Industrie Van Leer B.V.: *See*—
  Hemming, David H.; and Turner, Peter G., 4,661,229, Cl 204-192.130.
  Kerry, Peter R., and Lewis, Jeffrey L., 4,681,228, Cl 206-484.000.

Konishi, Hideo: *See*—
  Ohe, Takeshi; Koike, Ichiro; and Konishi, Hideo, 4,666,011, Cl 180-79.100.

Konishi, Hisatoshi: *See*—
  Okano, Tamon; Kumobayashi, Hidenori; Akutagawa, Susumu; Kiji, Jitsuo; Konishi, Hisatoshi; Fukuyama, Keiichi; and Shimano, Yasunobu, 4,705,895, Cl 564-15.000.

Konishi, Jin-emon, to Nippon Zoki Pharmaceutical Co., Ltd. Antiulcer composition containing a dipeptide compound. 4,637,996, 1-20-87, Cl 514-11.000.

Konishi, Katsuo: *See*—
  Furuhata, Takashi; Mohri, Katsuo; and Konishi, Katsuo, 4,642,708, Cl 360-77.000.

Konishi, Kazuo; and Nishikawa, Meisei, to Kabushiki Kaisha Toshiba. High speed convolution arithmetic circuit with multiple counters. 4,701,875, 10-20-87, Cl 364-728.000.

Konishi, Kazuo: *See*—
  Mitsudera, Hiroyuki; Konishi, Kazuo; and Sato, Yasuo, 4,640,929, Cl 514-436.000.

Konishi, Keiichi, to Kabushiki Kaisha Kobe Seiko Sho. Counterbalancing type crane. 4,711,358, 12-8-87, Cl 212-178.000.

Konishi, Keisuke; and Tanaka, Isao, to Wako Technical Research Co., Ltd., and Mitsubishi Chemical Industries Limited. Process for degrading by hydrolysis textiles comprising polyester fiber or acetate fiber, 4,654,911, 4-7-87, Cl 8-158.000.

Konishi, Keisuke: *See*—
  Hayashi, Mitsuji; Niwa, Takashi; Hayakawa, Akihiko; Bingo, Hideyuki; Kazusaka, Shoji; and Konishi, Keisuke, 4,701,582, Cl 200-61.420.

Konishi, Kenji: *See*—
  Yoshida, Hiroshi; Konishi, Kenji; Koike, Kengo; Nakagawa, Taizo; Shimano, Shizuo; and Mochizuki, Seiji, 4,690,934, Cl 514-354.000.

Konishi, Kunihiko: *See*—
  Kato, Yasuyoshi; Teshima, Nobue; Ohta, Masao; and Konishi, Kunihiko, 4,711,872, Cl 502-328.000.

Konishi, Kuniyoshi, to Kabushiki Kaisha Toshiba. Optical coupling unit. 4,671,608, 6-9-87, Cl 350-96.160.

Konishi, Masahiro, to Fuji Photo Film Co., Ltd. Semiconductor light source device in image output device. 4,672,258, 6-9-87, Cl 313-15.000.

Konishi, Masahiro, to Fuji Photo Film Co., Ltd. Light amount correction method and apparatus for image output system. 4,716,285, 12-29-87, Cl 250-205.000.

Konishi, Masahiro: *See*—
  Aotsuka, Yasuo; Konishi, Masahiro; and Takahashi, Koji, 4,710,631, Cl 250-354.100.

Konishi, Masanori: *See*—
  Umemura, Masashi; Konishi, Masanori; Fukushima, Aritoshi; Hisano, Junichi; and Okamoto, Toshiaki, 4,692,256, Cl 252-32.70E.

Konishi, Masataka; Saitoh, Kyoichiro; Ohkuma, Hiroaki; and Kawaguchi, Hiroshi, to Bristol-Myers Company. BBM-1675, a new antibiotic complex. 4,675,187, 6-23-87, Cl 424-117.000.

Konishi, Masataka; Tomita, Koji; Oka, Masahisa; and Numata, Kenichi, to Bristol-Myers Company. Peptide antibiotics. 4,692,510, 9-8-87, Cl 530-317.000.

Konishi, Masataka; Saitoh, Kyoichiro; Ohkuma, Hiroaki; and Kawaguchi, Hiroshi, to Bristol-Myers Company. Antitumor antibiotic complex. 4,708,872, 11-24-87, Cl 424-115.000.

Konishi, Masataka: *See*—
  Saitoh, Kyoichiro; Konishi, Masataka; and Tomita, Koji, 4,690,926, Cl 514-269.000.
  Tsunakawa, Mitsuaki; Konishi, Masataka; and Miyaki, Takeo, 4,683,230, Cl 314-214.000.

Konishi, Minoru: *See*—
  Aonuma, Takahiro; and Konishi, Minoru, 4,634,173, Cl 296-188.000.

Konishi, Motofumi: *See*—
  Tanaka, Kanou; Konishi, Motofumi; Ando, Yoshio; Iwaya, Toshio; Kotera, Masahide; Hashimoto, Norio; Sugita, Yasutoshi; Sano, Yoshitaka; and Ono, Satoshi, 4,658,299, Cl 358-256.000.

Konishi, Motoyuki: *See—*
  Tsunoyama, Kouzou; Ohashi, Yoshiharu; Furunushi, Yasuko; and Konishi, Motoyuki, 4,690,558, Cl. 356-318.000.
Konishi, Nobukiyo: *See—*
  Ueda, Ikuo; Shiokawa, Youichi; Kato, Masayuki; Konishi, Nobukiyo; and Akahane, Atsushi, 4,686,227, Cl. 514-292.000.
Konishi, Ryoko: *See—*
  Miyahara, Tsuneo; Harada, Yoshihiro; Futakami, Katsuyuki; Nishida, Yasukuni; and Konishi, Ryoko, 4,693,888, Cl. 424-49.000.
Konishi, Sadaichi: *See—*
  Takano, Hiroshi; Takagi, Shinichi; Wada, Kiyokazu; Konishi, Sadaichi; and Kanaoka, Tomizo, 4,708,699, Cl. 474-144.000.
Konishi, Satoshi; Ohno, Hideo; Naruse, Yuji; and Yoshida, Hiroshi, to Japan Atomic Energy Research Institute. Recovery method of tritium from tritiated water. 4,637,866, 1-20-87, Cl. 204-129.000.
Konishi, Satoshi, to Kabushiki Kaisha Toshiba. Voltage reference circuit for providing a predetermined voltage to an active element circuit. 4,649,291, 3-10-87, Cl. 307-297.000.
Konishi, Satoshi, to Ishida Scales Manufacturing Company, Ltd. Combinational weighing method and apparatus therefor with multiple selected combinations and multiple discharge paths. 4,676,326, 6-30-87, Cl. 177-1.000.
Konishi, Satoshi: *See—*
  Bochi, Hiroshi; Ueda, Kenji; and Konishi, Satoshi, 4,693,355, Cl. 193-2.00R.
  Nakamura, Toru; Konishi, Satoshi; Yamada, Seiji; Tatsuoka, Masahiko; and Kubo, Michihiro, 4,708,215, Cl. 177-25.000.
  Yamada, Seiji; Konishi, Satoshi; Kono, Katsuaki; and Nishimura, Ryoji, 4,705,125, Cl. 177-25.000.
Konishi, Takao: *See—*
  Kondo, Eiji; Kawamura, Yoshimi; Konishi, Takao; Matsumoto, Koichi; and Shoji, Junichi, 4,647,693, Cl. 562-439.000.
Konishi, Takashi: *See—*
  Goto, Touru; and Konishi, Takashi, 4,709,383, Cl. 378-72.000.
Konishi, Takeshi: *See—*
  Fukutomi, Hisao; Konishi, Takeshi; Kuraoka, Koji; Umeda, Morio; Tuchiya, Takanori; and Imura, Yutaka, 4,695,089, Cl. 296-107.000.
  Kuraoka, Koji; Umeda, Morio; Konishi, Takeshi; and Tuchiya, Takanori, 4,700,982, Cl. 296-107.000.
Konishi, Toshiharu; Shimizu, Yukio; Sakuramoto, Takahumi; Morishita, Tsuyoshi; and Osaki, Shigemi, to Nitto Electric Industrial Co., Ltd.; and Mazda Motor Corporation. Process for fixing alloy powder molding at sintering. 4,681,733, 7-21-87, Cl. 419-8.000.
Konishi, Toshiharu: *See—*
  Morishita, Tsuyoshi; Osaki, Sigemi; Sakai, Noriyuki; Shimizu, Yukio; Konishi, Toshiharu; and Sakuramoto, Takahumi, 4,670,215, Cl. 419-9.000.
Konishi, Yasuhiko: *See—*
  Ayukawa, Nobuhiro; and Konishi, Yasuhiko, 4,675,054, Cl. 148-6.200.
  Ayukawa, Nobuhiro; and Konishi, Yasuhiko, 4,678,518, Cl. 148-6.200.
Konishi, Yoshimune; Hobo, Nobuhito; Tsuzuki, Yoshihiko; Kameoka, Narutoshi; Miyaki, Masahiko; and Koide, Hiroshi, to Nippondenso Co., Ltd.; and Toyota Jidosha Kabushiki Kaisha. Method and apparatus for controlling fuel injection quantity into a diesel engine. 4,653,454, 3-31-87, Cl. 123-506.000.
Konishi, Yoshinori: *See—*
  Narita, Hirokazu; Konishi, Yoshinori; Nitta, Jun; Misumi, Shunjiro; Nagaki, Hideyoshi; Kitayama, Isao; Nagai, Yoriko; Watanabe, Yasuo; Matsubara, Nobuyuki; Minami, Shinzaburo; and Saikawa, Isamu, 4,698,352, Cl. 514-339.000.
  Sadaki, Hiroshi; Narita, Hirokazu; Imaizumi, Hiroyuki; Konishi, Yoshinori; Inaba, Takihiro; Hirakawa, Tatsuo; Taki, Hideo; Tai, Masaru; Watanabe, Yasuo; and Saikawa, Isamu, 4,673,738, Cl. 540-222.000.
  Todo, Yozo; Yamafuji, Tetsuo; Nagumo, Katsuyuki; Kitayama, Isao; Nagaki, Hideyoshi; Miyajima, Mikako; Konishi, Yoshinori; Narita, Hirokazu; Takano, Shuntaro; and Saikawa, Isamu, 4,704,459, Cl. 546-123.000.
Konishi, Yozo; Akashi, Kichizo; Watase, Hideo; and Yoshioka, Tatsuo, to Hitachi, Ltd. Piling planning method and piling system of cargoes by palletizing robot. 4,641,271, 2-3-87, Cl. 364-478.000.
Konishi, Yozo: *See—*
  Tenma, Tadashi; Akashi, Kichizo; Konishi, Yozo; and Watase, Hideo, 4,692,876, Cl. 364-513.000.
Konishi, Yuji; and Inoue, Tetsuo, to Murata Kikai Kabushiki Kaisha. Bobbin transporting system. 4,660,369, 4-28-87, Cl. 57-281.000.
Konishiroku Photo Industry Co., Ltd.: *See—*
  Arai, Kazuo; Nishi, Shinichi; Satoh, Taxey; Kawaguchi, Yasushi; and Mine, Kiyomitsu, 4,672,395, Cl. 346-135.100.
  Arai, Norikazu, 4,666,261, Cl. 350-473.000.
  Asano, Masao; Isobe, Ryosuke; Yamauchi, Yasuhisa; and Yamagishi, Hiroaki, 4,713,293, Cl. 428-403.000.
  Fujii, Yozo, 4,636,058, Cl. 355-8.000.
  Fujita, Hisao; Yamazaki, Hiroyuki; and Wakabayashi, Tomoko, 4,688,903, Cl. 350-432.000.
  Fujiwhara, Mitsuto; Nimura, Takao; Numata, Yasumasa; and Matsubara, Yasuko, 4,690,888, Cl. 430-549.000.
  Fukuchi, Masakazu; and Haneda, Satoshi, 4,702,987, Cl. 430-122.000.
  Funaki, Shinsuke; Akanabe, Yuichi; and Ikeda, Hiroaki, 4,710,779, Cl. 346-1.100.
  Haneda, Satoshi; Shoji, Hisashi; and Hiratsuka, Seiichiro, 4,666,804, Cl. 430-45.000.
  Haneda, Satoshi; Itoh, Takashi; Nakamura, Ken; and Tomono, Makoto, 4,675,267, Cl. 430-102.000.
  Haneda, Satoshi; Shoji, Hisashi; and Hiratsuka, Seiichiro, 4,679,929, Cl. 355-4.000.
  Hirabayashi, Shigeto; Matsuzaka, Syoji; Ohya, Yukio; and Nonaka, Yoshiyuki, 4,710,453, Cl. 430-505.000.
  Hirota, Fumiyuki; Miwa, Tadashi; and Yamada, Yasushi, 4,705,265, Cl. 271-122.000.
  Honda, Chiba; Ueda, Koichi; and Suzuki, Akio, 4,686,178, Cl. 430-569.000.
  Honda, Chika; Suzuki, Akio; Machida, Katsutoshi; and Iwata, Masatoshi, 4,639,417, Cl. 430-567.000.
  Horiuchi, Tatsumi; Kasahara, Seitaro; and Sawaki, Akira, 4,701,044, Cl. 355-7.000.
  Horiuchi, Tatumi, 4,697,806, Cl. 271-288.000.
  Iijima, Toshifumi; Kumashiro, Kenji; Kashiwagi, Hiroshi; Hatta, Koichi; Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; and Shinozaki, Kaoru, 4,665,015, Cl. 430-558.000.
  Iijima, Toshifumi; Yamada, Yoshitaka; Kumashiro, Kenji; Kamio, Takashi; and Shimura, Shinya, 4,701,404, Cl. 430-559.000.
  Inaba, Yoshihiro; Koshizuka, Kunihiro; Maehashi, Tatsuichi; and Abe, Takao, 4,707,406, Cl. 428-336.000.
  Ishikawa, Masao; Koboshi, Shigeharu; and Kuse, Satoru, 4,687,731, Cl. 430-372.000.
  Itaya, Masahiko; and Haneda, Satoshi, 4,664,505, Cl. 355-15.000.
  Itoh, Toyotsugu; and Muramatsu, Toshio, 4,639,072, Cl. 350-6.800.
  Iwahashi, Haruo, 4,669,855, Cl. 355-3.00R.
  Kageyama, Takashi; and Yoshida, Makoto, 4,675,208, Cl. 427-128.000.
  Kajiwara, Makoto; and Onodera, Kaoru, 4,661,441, Cl. 430-555.000.
  Kaneko, Yutaka; Kimura, Toshihiko; and Kadokura, Kenji, 4,639,415, Cl. 430-558.000.
  Kaneko, Yutaka; Kadokura, Kenji; Kimura, Toshihiko; Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; and Shinozaki, Kaoru, 4,675,280, Cl. 430-558.000.
  Kasahara, Seitaro; Sawaki, Akira; and Kawata, Shun, 4,637,707, Cl. 355-3.00R.
  Katsurai, Junji; Monma, Masao; and Takaku, Tetsuo, 4,679,053, Cl. 346-1.100.
  Kawata, Shun, 4,645,335, Cl. 355-55.000.
  Kimura, Kiyoshi; Okamoto, Yukio; Miwa, Tadashi; Fukuchi, Masakazu; Tarumi, Noriyoshi; and Ito, Kunio, 4,645,327, Cl. 355-3.00R.
  Kinoshita, Akira; Watanabe, Kazumasa; Yamazaki, Hiroshi; and Hirose, Naohiro, 4,692,393, Cl. 430-59.000.
  Kishi, Ken-ichi; Tuzita, Kenzi; Daidoji, Tuneo; Okuyama, Yuki; and Kimura, Kiyoshi, 4,675,268, Cl. 430-126.000.
  Kobayashi, Kazuhiro; Koboshi, Shigeharu; Kuse, Satoru; Miyaoka, Kazuyoshi; and Kurematsu, Masayuki, 4,705,377, Cl. 354-322.000.
  Kobayashi, Kazuhiro; Koboshi, Shigeharu; Kuse, Satoru; Miyaoka, Kazuyoshi; Kurematsu, Masayuki; and Uchida, Makoto, 4,705,379, Cl. 354-324.000.
  Koboshi, Shigeharu; and Higuchi, Moeko, 4,707,434, Cl. 430-393.000.
  Koizumi, Fumio; Kasuya, Takahira; and Takahashi, Jiro, 4,693,952, Cl. 430-109.000.
  Komamura, Tawara; and Ohya, Hidenobu, 4,650,748, Cl. 430-548.000.
  Komamura, Tawara, 4,656,124, Cl. 430-548.000.
  Komorita, Kazuo; Miyoshi, Masanobu; and Onodera, Kaoru, 4,640,889, Cl. 430-505.000.
  Koshizuka, Kunihiro; Kitamura, Shigehiro; Abe, Takao; Nakamura, Masaki; Ishii, Fumio; and Hotta, Yuji, 4,643,917, Cl. 427-256.000.
  Koshizuka, Kunihiro; Abe, Takao; Kitamura, Shigehiro; and Watanabe, Hiroshi, 4,673,618, Cl. 428-336.000.
  Kumashiro, Kenji; Iijima, Toshifumi; Akamatsu, Hideo; and Matsuzaka, Syoji, 4,692,400, Cl. 430-553.000.
  Maehashi, Tatsuichi; Abe, Takao; Koshizuka, Kunihiro; and Inaba, Yoshihiro, 4,681,796, Cl. 428-212.000.
  Maekawa, Yoshikazu, 4,659,207, Cl. 355-8.000.
  Maekawa, Yoshikazu; and Okui, Susumu, 4,705,389, Cl. 355-26.000.
  Masuda, Kasaku; Sato, Ryosuke; Ishii, Fumio; Kimura, Kazuhiko; and Ninomiya, Hidetaka, 4,692,529, Cl. 546-141.000.
  Matsunawa, Masahiko, 4,710,822, Cl. 358-280.000.
  Metoki, Iku; Suzuki, Akio; Yoshida, Eiji; Sato, Kiyoshi; and Hosaka, Masumi, 4,659,654, Cl. 430-567.000.
  Metoki, Iku; Suzuki, Akio; Yoshida, Eiji; Sato, Kiyoshi; Hosaka, Masumi; and Honda, Chika, 4,689,292, Cl. 430-567.000.
  Michiue, Kenji; Yagi, Toshihiko; Yamazaki, Katsumasa; Goto, Sohei; and Mochizuki, Yoshiharu, 4,670,375, Cl. 430-509.000.
  Mine, Kiyomitsu; Kobayashi, Yayoi; Kawaguchi, Yasushi; and Inokuma, Hiroyuki, 4,698,280, Cl. 428-425.900.
  Miyamae, Hiroshi; and Banno, Makoto, 4,637,690, Cl. 350-427.000.
  Miyaoka, Kazuyoshi; Kobayashi, Kazuhiro; Kuse, Satoru; Kurematsu, Masayuki; and Koboshi, Shigeharu, 4,705,378, Cl. 354-324.000.
  Miyazaki, Masayuki; Kudo, Yoshihiko; Takahashi, Seizi; Kobayashi, Chiharu; and Sawaki, Akira, 4,659,208, Cl. 355-8.000.
  Miyoshi, Masanobu; Takada, Shun; and Onodera, Kaoru, 4,670,377, Cl. 430-621.000.
  Mochizuki, Yoshihara; Goto, Sohei; Yagi, Toshihiko; Yamazaki, Katsumasa; and Michiue, Kenji, 4,639,410, Cl. 430-506.000.

Morita, Hideaki; Kasuya, Takahira; Yamakawa, Goichi; Tomono, Makoto; and Yasuda, Shinichiro, 4,657,837, Cl. 430-109.000.

Murai, Yoshio; Shiozawa, Kazuo; and Shimada, Masaki, 4,672,456, Cl. 358-227.000.

Nagai, Tatsuo; Suzuki, Shinichi; and Yamazaki, Hiroshi, 4,708,924, Cl. 430-138.000.

Nagoshi, Mitsuru, 4,634,261, Cl. 355-8.000.

Nakadate, Takanori; Kiyohara, Kazuto; and Harada, Ichiya, 4,699,744, Cl. 264-101.000.

Nakamura, Shinichi; and Ohbayashi, Keiji, 4,713,317, Cl. 430-551.000.

Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; Iijima, Toshijumi; Kumashiro, Kenji; Kashiwagi, Hiroshi; Hatta, Koichi; Uchida, Takashi; Wada, Hajime; Ishii, Fumio; Matsunaga, Satoshi; Matsubara, Yasuko; and Shinozaki, Kaoru, 4,695,533, Cl. 430-558.000.

Naoe, Masahiko; and Ishibashi, Shozo, 4,690,744, Cl. 204-192.110.

Nii, Tamotsu, 4,699,489, Cl. 354-212.000.

Nishijima, Toyoki; and Onodera, Kaoru, 4,675,275, Cl. 430-372.000.

Nishijima, Toyoki; and Onodera, Kaoru, 4,684,603, Cl. 430-372.000.

Okuyama, Yuji; Kishi, Kenichi; Tuzita, Kenzi; and Ban, Tsuyaki, 4,654,287, Cl. 430-106.600.

Onodera, Kaoru; Hohnishi, Satoru; Kobayashi, Kazuyuki; and Shiozawa, Kazuo, 4,715,690, Cl. 350-357.000.

Sato, Kaneo; Kodaka, Fujio; and Tsurumaki, Kazuyoshi, 4,653,891, Cl. 354-304.000.

Sakamoto, Norio; Ikariya, Toshiyuki; Takahashi, Kiyohiko; Nakamura, Masao; and Yanagisawa, Akira, 4,668,472, Cl. 422-56.000.

Sasaki, Masao; Kadowaki, Takashi; and Onodera, Kaoru, 4,692,399, Cl. 430-507.000.

Sawaki, Akira; and Kasahara, Seitaro, 4,707,121, Cl. 355-40.000.

Shigeta, Kunio; Yamamoto, Yoko; and Takahashi, Jiro, 4,637,973, Cl. 430-122.000.

Shimba, Satoru; Iwamuro, Masao; Ito, Kenji; Suzuki, Katutoyo; and Hamada, Fumio, 4,666,825, Cl. 430-385.000.

Shimoda, Kazuho; and Abe, Shunichi, 4,693,459, Cl. 271-9.000.

Shirose, Meizo; Takahashi, Jiro; Tsuchiya, Hiroshi; and Kaneko, Tadashi, 4,652,509, Cl. 430-110.000.

Shoji, Hisashi; Haneda, Satoshi; and Hiratsuka, Seichiro, 4,641,200, Cl. 358-296.000.

Shoji, Hisashi; Haneda, Satoshi; Hiratsuka, Seichiro; Fuma, Hiroshi; Soma, Shinobu; Itaya, Masahiko; Tamura, Akihiko; and Hayakawa, Kazushi, 4,669,864, Cl. 355-15.000.

Shoji, Hisashi; Haneda, Satoshi; and Hiratsuka, Seichiro, 4,680,625, Cl. 358-80.000.

Shoji, Hisashi; Haneda, Satoshi; and Hiratsuka, Seichiro, 4,696,880, Cl. 430-42.000.

Sugizaki, Tsugio; Abe, Tadashi; Haibara, Fumio; Fujii, Ritsuo; Ura, Hiroaki; and Matsumoto, Tooru, 4,650,176, Cl. 271-225.000.

Suzuki, Akio; Koitabashi, Takeo; Iwata, Masatoshi; Yamaguchi, Hisashi; and Matsuzaka, Syoji, 4,680,252, Cl. 430-364.000.

Suzuki, Kiziro; Isoguchi, Seiichi; Watanabe, Koji; Yokoyama, Shotaro; and Nishibe, Takashi, 4,652,119, Cl. 356-1.000.

Suzuki, Kiziro; Tsutsumi, Takashi; Yokoyama, Shotaro; and Nishibe, Takashi, 4,668,084, Cl. 356-1.000.

Takada, Shun; Kadowaki, Takashi; and Onodera, Kaoru, 4,666,826, Cl. 430-549.000.

Takei, Yoshiaki; Nomori, Hiroyuki; and Matuura, Katumi, 4,637,971, Cl. 430-59.000.

Takiguchi, Hideki; Yamada, Yoshitaka; Ohtani, Hirofumi; and Kashiwagi, Hiroshi, 4,701,405, Cl. 430-567.000.

Takiguchi, Hideki; Yamada, Yoshitaka; Ohtani, Hirofumi; and Kashiwagi, Hiroshi, 4,704,351, Cl. 430-567.000.

Tamura, Takashi, 4,692,018, Cl. 355-3.00R.

Tanaka, M.; Kobayashi, Kazuhiro; and Koboshi, Shigeharu, 4,702,998, Cl. 430-430.000.

Tanaka, Yasuhiko; and Kimura, Yoshiaki, 4,668,965, Cl. 346-140.00R.

Taniguchi, Shinichi; Akashi, Akira; and Uji, Yasuo, 4,669,847, Cl. 354-298.000.

Teshima, Manami; Tsuchino, Hisanori; Takeuchi, Hiroshi; and Shimada, Fumio, 4,654,533, Cl. 250-484.100.

Tokunaga, Hiroshi; Soma, Shinobu; Aoki, Naoki; and Kusuda, Tatsufumi, 4,674,860, Cl. 355-3.0TR.

Watanabe, Masato; Tanaka, Yasuhiko; and Murakami, Kiyotaka, 4,660,057, Cl. 346-140.00R.

Yagi, Toshihiko; Yamazaki, Katsumasa; Michiue, Kenji; Mochizuki, Yoshiharu; and Goto, Sonei, 4,686,176, Cl. 430-506.000.

Yamauchi, Yasuhisa; Asano, Masao; Anzai, Hideyuki; and Yasufuku, Yoshitaka, 4,710,427, Cl. 428-407.000.

Yamazaki, Toshinori; Sakai, Eiichi; and Nomori, Hiroyuki, 4,668,599, Cl. 430-84.000.

Yamazaki, Toshinori; Nakanishi, Tatsuo; Marukawa, Yuji; Takenouchi, Shigeki; and Nomori, Hiroyuki, 4,673,629, Cl. 430-58.000.

Yamazaki, Toshinori; Sakai, Eiichi; Nakanishi, Tatsuo; and Nomori, Hiroyuki, 4,677,044, Cl. 430-58.000.

Yasufuku, Yoshitaka; Nara, Masaji; and Akutsu, Shigeru, 4,652,496, Cl. 428-425.900.

Yasufuku, Yoshitaka; Nara, Masaji; and Akutsu, Shigeru, 4,684,572, Cl. 428-323.000.

Konisi, Takesi: *See*—

Imura, Yutaka; Konisi, Takesi; Tuchiya, Takanori; Umeda, Morio; Fukutomi, Hisao; and Kuraoka, Koji, 4,651,470, Cl. 49-502.000.

Konkol, Werner; Bahrmann, Helmut; Dambkes, Georg; Gick, Wilhelm; Wiebus, Ernst; and Bach, Hanswilhelm, to Ruhrchemie Aktiengesellschaft. Process for purification of gases. 4,711,648, 12-8-87, Cl. 55-73.000.

Konnai, Makoto: *See*—

Takematsu, Tetsuo; Konnai, Makoto; Shimizu, Kuniaki; Urushibata, Ikumi; and Kajiwara, Ikuo, 4,659,371, Cl. 71-103.000.

Konnemann, Alfred, to Grote & Hartmann GmbH & Co. KG. Extra locking element for round plugs. 4,707,050, 11-17-87, Cl. 439-747.000.

Konno, Hidetaka: *See*—

Leidheiser, Henry, Jr.; and Konno, Hidetaka, 4,681,814, Cl. 428-457.000.

Konno, Kazuhiko; Araki, Koichi; Ikeda, Kaoru; Endo, Keiji; and Hikido, Mitsuru, to Mitsubishi Petrochemical Co., Ltd. Herbicidal 2-chloro-2'-fluoroalkoxyacetanilides. 4,659,365, 4-21-87, Cl. 71-92.000.

Konno, Kazuhiko: *See*—

Oonishi, Akiyoshi; Tanaka, Kenji; Tadeka, Makoto; Konno, Kazuhiko; and Saito, Masaki, 4,694,102, Cl. 562-426.000.

Konno, Kijiro: *See*—

Kitahara, Ayao; and Konno, Kijiro, 4,664,841, Cl. 252-309.000.

Konno, Kiyoshi: *See*—

Watanabe, Ryuji; Minemura, Tetsuro; Ito, Tetsuo; Ando, Hisashi; Maeda, Yoshihito; Nagai, Masaichi; Shimizu, Seiki; Konno, Kiyoshi; and Kaneko, Toshiki, 4,651,172, Cl. 346-135.100.

Konno, Masanori; Imai, Kiyoshi; and Dobashi, Toshihiro, to Amada Company, Limited. Method and apparatus for controlling an electric discharge machine. 4,673,791, 6-16-87, Cl. 219-69.00M.

Konno, Masanori; Imai, Kiyoshi; and Dobashi, Toshihiro, to Amada Company, Limited. Method and device for controlling the tool electrode in an electrical discharge machine tool. 4,700,039, 10-13-87, Cl. 219-69.00G.

Konno, Masashi; Hojo, Takeshi; and Sato, Kazuteru, to Kabushiki Kaisha Tokyo Keiki. Gyro apparatus. 4,703,655, 11-3-87, Cl. 73-505.000.

Konno, Mutsuo: *See*—

Ishikawa, Toshimitsu; Ozawa, Mishihiro; Sakurai, Mikio; Konno, Mutsuo; Aizawa, Yasuhiro; Igarashi, Takao; and Hirakawa, Hiromasa, 4,686,079, Cl. 376-444.000.

Konno, Ryozo: *See*—

Ohtsuki, Akira; Konno, Ryozo; Kanno, Nobumori; Sugai, Makio; Mihoya, Takashi; Kubota, Yuichi; Nishimatsu, Masaharu; Isobe, Yukihiro; Tanaka, Kazushi; and Shimoura, Osamu, 4,708,909, Cl. 428-425.900.

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Goto, Motoo; Kono, Hiroshi; Asao, Haruhiko; Miyamoto, Yukio; and Igarashi, Toshihiko, 4,711,433, Cl. 266-222.000.

Kono, Hisashi O.: *See*—

Fleming, Hubert L.; Edl, Jon F.; Pearson, Alan; Chou, Chiu-Liang; Kono, Hisashi O.; and Huang, Ching-Chung, 4,704,378, Cl. 502-355.000.

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Yamada, Seiji; Konishi, Satoshi; Kono, Katsuaki; and Nishimura, Ryoji, 4,705,125, Cl. 177-25.000.

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Fujita, Teruo; Kono, Keizo; Kondo, Mitsushige; and Shikama, Shinsuke, 4,672,187, Cl. 250-201.000.

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Matsuda, Katsumi; and Kono, Kunio, 4,651,501, Cl. 53-383.000.

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- Kono, Shigeyoshi; Tsutsui, Yoshimitsu; Koshiji, Fumio; and Sawayanagi, Tomohiko, to Amada Company, Limited. Press. 4,669,298, 6-2-87, Cl. 72-453.130.
- Kono, Susumu: *See—*
  - Onizuka, Masakazu; Ukawa, Naohiko; Kono, Susumu; and Okino, Susumu, 4,663,724, Cl. 364-496.000.
  - Onizuka, Masakazu; Kono, Susumu; and Okino, Susumu, 4,677,077, Cl. 436-50.000.
- Kono, Tatsuhiko: *See—*
  - Enomoto, Hiroshi; Nomura, Tadatoshi; Aoyagi, Yoshiaki; Chokai, Shoichi; Fujita, Yukio; Kono, Tatsuhiko; Murase, Masao; Inoue, Kichiro; and Adachi, Masahiro, 4,711,898, Cl. 514-312.000.
- Kono, Toshiaki: *See—*
  - Nakatomi, Yasuo; Hara, Katsuhiko; Umeda, Fumio; Kono, Toshiaki; and Niimoto, Hisashi, 4,693,898, Cl. 426-19.000.
- Kono, Yoshihisa: *See—*
  - Asano, Yuichiro; Kono, Yoshihisa; Yanagimoto, Takayuki; Shiozumi, Motoji; Takahashi, Kunio; Torao, Akira; Moriya, Susumu; and Momose, Atsushi, 4,708,882, Cl. 427-1.000.
- Konomatu, Yositaka: *See—*
  - Murakami, Kenji; Konomatu, Yositaka; and Sato, Kanro, 4,664,793, Cl. 210-181.000.
- Konomura, Yutaka, to Olympus Optical Co., Ltd. Basket forceps assembly for endoscope. 4,682,599, 7-28-87, Cl. 128-328.000.
- Kononen, Juhani, to Elevator GmbH. Brake in a light-constructed transport carriage. 4,673,066, 6-16-87, Cl. 188-119.000.
- Konopka, John G., to Zenith Electronics Corporation. Low voltage shutdown circuit. 4,709,320, 11-24-87, Cl. 363-56.000.
- Konoshiroku Photo Industry Co., Ltd.: *See—*
  - Watanabe, Kazumasa; Ikeuchi, Satoru; Sasaki, Osamu; and Hirose, Naohiro, 4,647,520, Cl. 430-58.000.
- Konotsune, Shiro: *See—*
  - Kunimune, Kouichi; Kutsuzawa, Yoshiya; and Konotsune, Shiro, 4,656,238, Cl. 528-26.000.
  - Kunimune, Kouichi; Kutsuzawa, Yoshiya; and Konotsune, Shiro, 4,672,099, Cl. 528-26.000.
- Konotsune, Takuo; and Kawakubo, Katsuhiko, to Sankyo Company Limited. Organic acid esters of 4-benzoyl-5-hydroxy(mercapto)-pyrazoles. 4,687,858, 8-18-87, Cl. 548-243.000.
- Konov, Vyacheslav V.: *See—*
  - Ovchinnikov, Alexandr A.; Dudin, Vladimir P.; Konov, Vyacheslav V.; Khlybov, Vyacheslav I.; Rapoport, Jury M.; Gorbunov, Boris N.; Makarova, Evgenia S.; Davituliani, Valentin V.; and Zaitseva, Svetlana I., 4,642,354, Cl. 548-473.000.
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  - Bezborodov, Vladimir S.; Konovalov, Viktor A.; Ptashnikov, Jury L.; Astafiev, Vladimir M.; and Petrovich, Alexandr E., 4,683,079, Cl. 252-299.670.
- Konrad Doppelmayr & Sohn Maschinefabrik Gesellschaft m.b.H & Co. KG.: *See—*
  - Meindl, Bernd, 4,686,906, Cl. 104-209.000.
- Konrad, Eugen; and Clausen, Thomas, to Wella Aktiengesellschaft. 3-Amino-5-hydroxypyridine derivatives and hair coloring compositions containing the same. 4,661,114, 4-28-87, Cl. 8-409.000.
- Konrad, Eugen; and Clausen, Thomas, to Wella Aktiengesellschaft. 1,4-diamino-5-chloro-2-nitrobenzene derivatives, processes for their production and compositions containing the same for the coloration of hair. 4,704,474, 11-3-87, Cl. 564-441.000.
- Konrad, Eugen; and Clausen, Thomas, to Wella Aktiengesellschaft. Method and composition for the dyeing of hair with 2,6-diaminopyridine derivatives. 4,713,080, 12-15-87, Cl. 8-408.000.
- Konrad, Eugen: *See—*
  - Hoch, Dietrich; Wajaroff, Theodor; and Konrad, Eugen, 4,660,580, Cl. 132-7.000.
- Konrad, Franz, to C. A. Greiner & Sohne Gesellschaft m.b.H. Biological sampling tube. 4,652,429, 3-24-87, Cl. 422-102.000.
- Konrad, Franz, to C. A. Greiner & Sohne Gesellschaft mbH. Blood-sampling tube. 4,664,274, 5-12-87, Cl. 215-232.000.
- Konrad, Gunther; Maak, Norbert; and Lieske, Edgar, to Henkel Kommanditgesellschaft auf Aktien. Oxidation hair dyes comprising m-phenylenediamine derivatives as coupling components. 4,684,371, 8-4-87, Cl. 8-408.000.
- Konrad Hornschuch AG: *See—*
  - Hellwig, Manfred, 4,645,704, Cl. 428-176.000.
- Konrad, Joseph D. Guide for ellipse construction. 4,688,330, 8-25-87, Cl. 33-27.030.
- Konrad Rosenbauer KG: *See—*
  - Hawelka, Walter; and Irsigler, Walter, 4,645,009, Cl. 169-15.000.
  - Hawelka, Walter; and Staudinger, Hermann, 4,683,976, Cl. 180-311.000.
  - Staudinger, Hermann, 4,678,041, Cl. 169-24.000.
- Konrath, Karl: *See—*
  - Bohringer, Wilfried; Eheim, Franz; Hofer, Gerald; Konrath, Karl; and Laufer, Helmut, 4,649,883, Cl. 123-449.000.
  - Bohringer, Wilfried; Eheim, Franz; Hofer, Gerald; Konrath, Karl; and Laufer, Helmut, 4,714,412, Cl. 417-289.000.
  - Eheim, Franz; Hofer, Gerald; Konrath, Karl; and Straubel, Max, 4,703,730, Cl. 123-373.000.
- Kons, Hugo L.: *See—*
  - Morris, Marion C.; Hill, Randolph J.; Frick, Richard H.; and Kons, Hugo L., 4,645,135, Cl. 242-67.10R.
- Konsevich, Francis X., to Boeing Company, The. Resilient bushing and pin installation for use with vibration sensitive equipment. 4,647,245, 3-3-87, Cl. 403-228.000.
- Konshak, Michael V.: *See—*
  - Davis, Marvin B.; Konshak, Michael V.; and Pollard, Christopher A., 4,644,521, Cl. 369-291.000.
- Konstant, Anthony N.; and Weider, John J., to Konstant Products, Inc. Beam to column connection. 4,678,091, 7-7-87, Cl. 211-191.000.
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  - Konstant, Anthony N.; and Weider, John J., 4,678,091, Cl. 211-191.000.
- Konstantin, Anatole E. Banding apparatus with tilting band positioner. 4,649,697, 3-17-87, Cl. 53-585.000.
- Konstantinov, Boris A.: *See—*
  - Dzemeshkevich, Sergei L.; Zavalishin, Nikolai N.; Krasovskaya, Svetlana M.; Sagalevich, Valery M.; Konstantinov, Boris A.; Nenjukov, Alexandr K.; and Ivanov, Alexei S., 4,692,164, Cl. 623-2.000.
- Konstantinov, Vladimir B.: *See—*
  - Gurevich, Simkha B.; Konstantinov, Vladimir B.; Chernykh, Dmitry F.; Levushkin, Vladislav M.; Pisarevskaya, Svetlana A.; Cheberyak, Mikhail S.; and Latyshev, Alexandr I., 4,707,053, Cl. 350-3.600.
- Konstructa Trencin, narodny podnik: *See—*
  - Brychta, Ondrej; Tlucko, Jozef; Magdolen, Viktor; Brostik, Miroslav; and Klimacek, Dusan, 4,691,700, Cl. 128-200.210.
- Konstruktionsatelje AkeAhrlund: *See—*
  - Ehrlund, Ake, 4,650,217, Cl. 282-12.00A.
- Konstruktiva Trencin, narodny podnik: *See—*
  - Brychta, Ondrej; and Zabrodsky, Vladimir, 4,681,100, Cl. 128-204.250.
- Konta, Yukio; and Yoneda, Yosuke, to Tomy Kogyo Co. Inc. Truck vehicle capable of jumping. 4,702,720, 10-27-87, Cl. 446-448.000.
- Kontoghiorghes, George: *See—*
  - Hider, Robert C.; Kontoghiorghes, George; Silver, Jack; and Stockham, Michael A., 4,650,793, Cl. 514-188.000.
  - Hider, Robert C.; Kontoghiorghes, George; Silver, Jack; and Stockham, Michael A., 4,665,064, Cl. 514-184.000.
  - Hider, Robert C.; Kontoghiorghes, George; Silver, Jack; and Stockham, Michael A., 4,666,927, Cl. 514-350.000.
- Kontron Electronics, Inc.: *See—*
  - Barnes, Keith, 4,661,921, Cl. 364-708.000.
- Kontron Holding AG: *See—*
  - Abbott, John G.; Burckhardt, Christoph B.; Grandchamp, Pierre-Andre; Krummenacher, Peter; and Schlaepfer, Claude, 4,649,926, Cl. 128-660.000.
  - Abbott, John G.; Burckhardt, Christoph B.; Grandchamp, Pierre-Andre; Krummenacher, Peter; and Schlaepfer, Claude, 4,674,514, Cl. 128-660.000.
  - Fehr, Rainer; Grandchamp, Pierre-Andre; and Krummenacher, Peter, 4,649,927, Cl. 128-660.000.
- Kontron Inc.: *See—*
  - Cho, George E. S.; and Kessler, Stephen B., 4,681,092, Cl. 128-1.00D.
- Kontz, Robert F., to Owens-Illinois, Inc. Method and apparatus for fabricating nestable thermoplastic containers. 4,645,480, 2-24-87, Cl. 493-106.000.
- Konuma, Toshimitsu: *See—*
  - Yamazaki, Shunpei; Konuma, Toshimitsu; Hamatani, Toshiji; Mase, Akira; Koyanagi, Kaoru; Imato, Shinji; Yamaguchi, Toshiharu; Sakama, Mitsunori; and Inujima, Takashi, 4,691,995, Cl. 350-331.00R.
- Konya, Yoshiharu: *See—*
  - Koya, Kazuo; and Konya, Yoshiharu, 4,650,511, Cl. 65-30.100.
- Konyaev, Alexei N.: *See—*
  - Golubenko, Alexandr L.; Turchin, Viktor P.; Konyaev, Alexei N.; Sukhov, Igor N.; Kaljuzhny, Nikolai N.; Filonov, Arkady S.; Koropets, Alexei P.; Pinovsky, Mikhail L.; Tkachenko, Viktor P.; and Kramar, Nikolai M., 4,635,990, Cl. 295-11.000.
- Konz, Elmar; and Kaiser, Joachim, to Hoechst Aktiengesellschaft. Isoquinoline derivatives, pharmaceutical formulations based on these compounds and the use thereof. 4,673,682, 6-16-87, Cl. 514-307.000.
- Koo, David: *See—*
  - Miron, Amihai; and Koo, David, 4,665,438, Cl. 358-183.000.
- Koo, Gloria C.: *See—*
  - Hammerling, Ulrich; Koo, Gloria C.; and Tada, Nobuhiko, 4,680,258, Cl. 435-7.000.
- Koo, Karlson: *See—*
  - Arndt, John L.; and Koo, Karlson, 4,689,254, Cl. 428-65.000.
- Koob, Judith L.: *See—*
  - Guilbault, Lawrence J.; McEntee, Thomas C.; Koob, Judith L.; and Brophy, James F., 4,649,079, Cl. 428-375.000.
  - Guilbault, Lawrence J.; McEntee, Thomas C.; and Koob, Judith L., 4,685,932, Cl. 8-490.000.
  - McEntee, Thomas C.; Guilbault, Lawrence J.; Brophy, James F.; and Koob, Judith L., 4,643,920, Cl. 427-434.600.
  - McEntee, Thomas C.; Guilbault, Lawrence J.; Brophy, James F.; and Koob, Judith L., 4,649,078, Cl. 428-375.000.
- Kooda, Akihide; Nishioka, Itsuo; Nishiyori, Takeshi; and Yahara, Shoji, to Kabushiki Kaisha Tsmurajuntendo. Anti-allergic hydroxybiphenyl compounds. 4,650,813, 3-17-87, Cl. 514-701.000.
- Kooi, Yuji: *See—*
  - Shikama, Toshihiro; Ota, Takahisa; Ishizaka, Michihiro; Kira, Hirofumi; Horiguchi, Akira; and Kooi, Yuji, 4,685,105, Cl. 370-86.000.
- Kooijman, Ary A.: *See—*
  - Keller, Felix; Kooijman, Ary A.; Engelsman, Robert; and Fischer, Werner K., 4,676,960, Cl. 423-240.000.

Kooijmans, Petrus G.: *See—*
Bekooij, Jurrianus; Kooijmans, Petrus G.; Raudenbusch, Werner T.; and Stachowiak, Stephen A., 4,686,248, Cl. 523-404.000.

Kook, John F.: *See—*
Blaisdell, Charles T.; Cordes, Walter J.; Heinsohn, George E.; Kook, John F.; and Kosak, John R., 4,698,438, Cl. 558-3.000.

Kooke, Dieter; and Schwabe, Peter, to Bayer Aktiengesellschaft. Molding material and process for its preparation. 4,670,053, 6-2-87, Cl. 106-35.000.

Kookje Elec. Ind. Co., Ltd.: *See—*
Song, Ki W., 4,675,478, Cl. 200-38.00R.

Kookootsedes, Gust J.; Reese, Herschel H.; Gutek, Beth I.; and Pretzer, Gale H., to Dow Corning Corporation. Touch position sensitive optical waveguides. 4,701,017, 10-20-87, Cl. 350-96.340.

Kool, Peter: *See—*
Wijn, Jan A.; and Kool, Peter, 4,655,935, Cl. 210-750.000.

Koomey: *See—*
Jones, Marvin R.; and Helfer, Paul E., 4,638,972, Cl. 251-1.300.

Koomey, Inc.: *See—*
Tomlin, Jerry B.; and Loup, Ronald L., 4,699,355, Cl. 251-62.000.

Koons, John P.: *See—*
Hitchcock, Robert B.; Kellerman, Eduardo; and Koons, John P., 4,700,016, Cl. 174-68.500.

Koontz, Harry S., to PPG Industries, Inc. Method of and apparatus for detecting presence of a mark on a transparent substrate. 4,665,392, 5-12-87, Cl. 340-674.000.

Koontz, Harry S., to PPG Industries, Inc. Apparatus and method for determining contour characteristics of a contoured article. 4,679,331, 7-14-87, Cl. 33-551.000.

Koop, Dale E.: *See—*
Rando, Joseph F.; and Koop, Dale E., 4,674,960, Cl. 417-420.000.
Rando, Joseph F.; and Koop, Dale E., 4,709,372, Cl. 372-58.000.

Koopman, Donald E.: *See—*
Burley, William L.; Koopman, Donald E., and McQuain, David B., 4,676,617, Cl. 354-76.000.

Koopmans, Robert; and Hughes, Robin W. Hydraulic rock breaking tool. 4,657,306, 4-14-87, Cl. 299-21.000.

Koors, Mark A.: *See—*
Jung, James E.; Koors, Mark A.; and Lutz, Phillip A., 4,706,811, Cl. 206-331.000.

Koos, William M., Jr.: *See—*
Halpern, Peter H.; Mallory, Peter E.; Haug, Paul E., and Koos, William M., Jr., 4,649,549, Cl. 380-32.000.
Halpern, Peter H.; Mallory, Peter E.; Hang, Paul E.; and Koos, William M., Jr., 4,672,637, Cl. 375-96.000.

Koot, Bastiaan C. M., to Hydrowega Consulting BV. Amphibian vehicle for shallow water. 4,658,751, 4-21-87, Cl. 114-270.000.

Koot, Hermanus M. I.; and Oskam, Aane A., to IKU Holding Montfoort B.V. Adjusting device with overload slip system. 4,670,679, 6-2-87, Cl. 310-99.000.

Koot, Hubertus H. M., to Mandhy Products B.V. Cuyk. Urine-receiving system. 4,713,065, 12-15-87, Cl. 604-329.000.

Koot, Petrus C., to Ingenieursbureau Marcon (Marine Consultants) B.V. Device for connecting and disconnecting hoses or pipes to and from difficultly accessible structures. 4,666,187, 5-19-87, Cl. 285-24.000.

Kooy, Hermen. Cabinet for cut-off flowers. 4,680,942, 7-21-87, Cl. 62-256.000.

Kooy, Richard J.: *See—*
Evans, Timothy J.; and Kooy, Richard J., 4,648,864, Cl. 494-37.000.

Kooy, Wayne J. Rudder assembly. 4,711,192, 12-8-87, Cl. 114-162.000.

Kopainsky, Jurgen: *See—*
Hager, Helmut; Kopainsky, Jurgen, and Zwahlen, Kurt, 4,689,708, Cl. 361-65.000.

Koparanova, Darina K.: *See—*
Sabev, Sabi G.; Lasarov, Stefan D.; Todorov, Dimiter B.; Koparanova, Darina K.; and Hristov, Ivan B., 4,667,698, Cl. 137-596.130.

Kopatz, Nelson E.; Pruyne, Lori S.; and Shaw, Howard H., to GTE Products Corporation. Process for producing finely divided spherical metal powders. 4,670,047, 6-2-87, Cl. 75-0.50B.

Kopatz, Nelson E.; and Pruyne, Lori S., to GTE Products Corporation. Process for producing finely divided spherical glass powders. 4,715,878, 12-29-87, Cl. 65-21.100.

Kopchick, John J.; Leung, Frederick C.; Livelli, Thomas J.; and Malavarca, Richard H., to Merck & Co., Inc. Encapsulated mouse cells transformed with avian retrovirus-bovine growth hormone DNA, and a method of administering BGH in vivo. 4,686,098, 8-11-87, Cl. 424-15.000.

Kopecky, Friedrich: *See—*
Toman, Herbert; and Kopecky, Friedrich, 4,662,066, Cl. 29-854.000.

Kopecky, Ivyl D., to Haybuster Manufacturing, Inc. Applicator and grain drill shank. 4,638,748, 1-27-87, Cl. 111-7.000.

Kopecky, Ivyl D., to Haybuster Manufacturing, Inc. Furrow opener for seeder. 4,674,419, 6-23-87, Cl. 111-73.000.

Kopelowicz, Alberto. Anchoring devices for joining overlapping cloths for garments or articles manufactured with them. 4,689,861, 9-1-87, Cl. 24-662.000.

Koper, James G.; and Ljung, Bo H. G., to Singer Company, The. Retainer for electrically fired getter. 4,639,231, 1-27-87, Cl. 445-31.000.

Koper, Kenneth T.; Willard, Sylvester L.; and Abramowski, Larry A., to United States of America, Navy. Electrochemical reserve battery. 4,695,520, 9-22-87, Cl. 429-116.000.

Koperdak, Edward A., to COPE, Inc. Vehicle traction material and bag therefor. 4,668,292, 5-26-87, Cl. 106-36.000.

Koperdak, Edward A., to Cope, Inc. Coving attachment. 4,690,382, 9-1-87, Cl. 256-1.000.

Kopernicky, Jaro, to Mapro Inc. Removing volatiles from plastic materials delivered to an extrusion or injection molding machine. 4,636,084, 1-13-87, Cl. 366-76.000.

Kopernicky, Jaro, to Mapro Inc. Apparatus for removing volatiles from plastic materials delivered to an extrusion or injection molding machine. 4,636,085, 1-13-87, Cl. 366-76.000.

Kopf, Helmut, to Ciba-Geigy Corporation. Storage-stable, quick-disintegrating pressed shapes containing pharmaceutical active substances. 4,666,703, 5-19-87, Cl. 424-470.000.

Kopf, Rowland J., deceased (by Kopf, Virginia G., heiress); and Flynn, William C., to Uniset Corporation. Pivot-load powder actuated tool with firing chamber insert. 4,705,200, 11-10-87, Cl. 227-9.000.

Kopf, Virginia G., heiress: *See—*
Kopf, Rowland J., deceased; and Flynn, William C., 4,705,200, Cl. 227-9.000.

Kopich, Leonard F., to General Motors Corporation. Motor vehicle power train torque strut. 4,685,531, 8-11-87, Cl. 180-300.000.

Kopineck, Hermann J.: *See—*
Fabian, Wolfgang; Kopineck, Hermann J., and Tappe, Wilhelm, 4,674,309, Cl. 72-9.000.

Kopka, Ihor E.: *See—*
Boulton, David A.; Kopka, Ihor E., Moore, Vernon L.; and Pessolano, Arsenio A., 4,697,012, Cl. 544-124.000.

Kopke, Robert J. Collapsible grill. 4,688,543, 8-25-87, Cl. 126-25.00A.

Kopke, Wolfgang; Eggert, Albert; Wiener, Peter; Gotze, Gerd Wolfgang; and Maas, Rainer, to Robert Bosch GmbH. Hearing aid responsive to signals inside and outside of the audio frequency range. 4,689,820, 8-25-87, Cl. 381-68.000.

Koploy, Randolph A.: *See—*
Cullen, Richard; Koploy, Randolph A., Thorvick, Thomas S.; and Westman, Donald A., 4,650,957, Cl. 219-124.030.

Kopmann, Udo. Method of and apparatus for monitoring the state of charge of a rechargeable battery. 4,677,363, 6-30-87, Cl. 320-44.000.

Kopola, Harri: *See—*
Myllylla, Risto; Kopola, Harri; Kostamovaara, Juha; and Ahola, Raimo, 4,640,514, Cl. 273-310.000.

Kopp, Beatrice J.: *See—*
Squires, Charles H.; Heefner, Donald L.; Evans, Ronald J.; Kopp, Beatrice J.; and Yarus, Michael J., 4,690,897, Cl. 435-320.000.

Kopp, Clinton: *See—*
Shah, Dilip H.; and Kopp, Clinton, 4,707,268, Cl. 210-650.000.

Kopp, Earl. Coffee filter ring. 4,656,932, 4-14-87, Cl. 99-295.000.

Kopp, Georg, to SIG Schweizerische Industrie-Gesellschaft. Transfer apparatus for flat items. 4,645,062, 2-24-87, Cl. 198-448.000.

Kopp, Hans, to Georg Fischer Aktiengesellschaft. Centering arrangement for a wheel hub. 4,699,433, 10-13-87, Cl. 301-6.00S.

Kopp, Laurence D. Safety closet rod system. 4,643,318, 2-17-87, Cl. 211-123.000.

Kopp, Norbert: *See—*
De Marchi, Jean-Louis; Mabboux, Michel; Paris, Jean; and Kopp, Norbert, 4,677,770, Cl. 36-120.000.
Morell, Joseph; De Marchi, Jean-Louis; and Kopp, Norbert, 4,709,491, Cl. 36-121.000.
Rochard, Jean-Claude; and Kopp, Norbert, 4,644,670, Cl. 36-117.000.

Kopp, Reiner H.; and Panetz, Allen I., to Biochemical Diagnostics, Inc. Chromatography method. 4,696,187, 9-29-87, Cl. 73-61.10C.

Kopp, Richard; Grogler, Gerhard; Hess, Heinrich; and Konig, Klaus, to Bayer Aktiengesellschaft. Process for the production of urea group-containing polyisocyanates. 4,680,367, 7-14-87, Cl. 528-44.000.

Kopp, Richard: *See—*
Grogler, Gerhard; Kopp, Richard; Hess, Heinrich; and Rasshofer, Werner, 4,663,415, Cl. 528-61.000.
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Siemers, Paul A.; Kopp, Robert W.; and Jackson, Melvin R., 4,657,823, Cl. 428-610.000.

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Antonelli, Douglas C.; Branscomb, Patricia M.; Broockman, Eric C.; Dickson, LeRoy D.; Koppel, Caralee P.; Ossowski, Richard; and Stokes, Olen L., Jr., 4,713,785, Cl. 364-569.000.

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- Koppelomaki. Loudspeaker system. 4,673,056, 6-16-87, Cl. 181-141.000.
- Koppens Machinefabriek B.V.: *See—*
  - Koppens, Wilhelmus F. A., 4,634,362, Cl. 425-287.000.
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- Koppensteiner, James V.; and Kubik, Charles K., to GTE Communication Systems Corporation. Wire formed cable brackets. 4,690,356, 9-1-87, Cl. 248-68.100.
- Koppers Company, Inc.: *See—*
  - Demers, Harlan, 4,679,658, Cl. 182-221.000.
  - Dressler, Hans; and Ward, Hans A., 4,645,780, Cl. 514-731.000.
  - Dressler, Hans, 4,656,302, Cl. 558-194.000.
  - Dressler, Hans, 4,705,879, Cl. 558-194.000.
  - McGovern, Edward W., 4,661,378, Cl. 427-140.000.
  - Mess, Richard C., 4,679,362, Cl. 52-125.500.
  - Okamoto, Yoshiyuki; and Vicari, Richard, 4,642,393, Cl. 568-734.000.
  - Wallace, William E.; and Yu, Gui-Yu, 4,656,023, Cl. 423-644.000.
  - Wallace, William E.; and Pourarian, Faiz, 4,663,143, Cl. 423-644.000.
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  - Luttermoller, Jurgen, 4,713,257, Cl. 427-27.000.
- Koppl, Georg, to BBC Brown, Boveri & Company, Limited. Safety mechanism for electrical power line. 4,663,691, 5-5-87, Cl. 361-65.000.
- Kopsco, M. Alan: *See—*
  - Kirsch, Jerome; Kopsco, M. Alan; Markow, Edward; and Sturm, Michael, 4,685,641, Cl. 244-105.000.
- Kopsco, Michael A.; and Markow, Edward G., to Grumman Aerospace Corporation. Segmented-band banded tire. 4,708,186, 11-24-87, Cl. 152-516.000.
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  - Emberger, Roland; Kopsel, Manfred; Bruning, Jurgen; Hopp, Rudolf; and Sand, Theodor, 4,654,168, Cl. 252-522.00R.
- Koptis, Robert A.: *See—*
  - Heran, Robert F.; and Koptis, Robert A., 4,649,834, Cl. 110-190.000.
- Kopunek, Thomas V.: *See—*
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- Kopylov, Eduard. Aircraft. 4,706,907, 11-17-87, Cl. 244-49.000.
- Korab, Theodore J., to Hudson Pharmaceutical Corporation. Effervescent antacid and analgesic compositions. 4,704,269, 11-3-87, Cl. 424-44.000.
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- Koranek, David J., to Dow Chemical Company, The. Preparation of tetrachloropyridine. 4,659,835, 4-21-87, Cl. 546-345.000.
- Koranski, David S.: *See—*
  - Gladon, Richard J.; and Koranski, David S., 4,653,641, Cl. 206-459.000.
- Korant, Bruce D., to Du Pont de Nemours, E. I., and Company. Method for extracting protein with organic acid. 4,675,387, 6-23-87, Cl. 530-412.000.
- Korant, Bruce D.: *See—*
  - Kettner, Charles A.; and Korant, Bruce D., 4,636,492, Cl. 514-18.000.
  - Kettner, Charles A.; and Korant, Bruce D., 4,644,055, Cl. 530-330.000.
  - Kettner, Charles A.; and Korant, Bruce D., 4,652,552, Cl. 514-18.000.
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  - Kageler, Peter; Bostelmann, Rudolf; and Buhrmester, Olaf, 4,710,066, Cl. 406-29.000.
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  - Dabringhaus, Volker; Dietz, Gunter; Wegel, Peter; Bowman, H David; Korber, Jurgen; and Seidl, Horst, 4,676,544, Cl. 296-37.900.
- Korbonits, Dezso: *See—*
  - Heja, Gergely; Korbonits, Dezso; Palosi, Endre; Kiss, Pal; Gonczi, Csaba; Szvoboda nee Kanzel, Ida; Marvanyos, Ede; Kun, Judit; Szomor nee Wundele, Maria; Szabo, Gabor; Kallay, Tamas; and Ledniczky, Laszlo, 4,709,081, Cl. 560-100.000.
- Korbuly, Gergely, to Hutchinson S.A. Means for protecting support structures or similar from shocks. 4,641,999, 2-10-87, Cl. 405-215.000.
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  - Lecour, Pierre; and Korbuly, Gergely, 4,688,776, Cl. 267-140.100.
- Korcz, William H.; and Singhal, Surendra N., to Shell Oil Company. Metal ring clip for endcapping of container. 4,664,285, 5-12-87, Cl. 220-67.000.
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  - Brede, Uwe; Kern, Heinz; and Kordel, Gerhard, 4,651,254, Cl. 361-248.000.
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  - Brede, Uwe; and Kordel, Gerhard, 4,690,056, Cl. 102-202.200.
- Kordi, Srdjan; Zieren, Victor; and Middelhoek, Simon, to U.S. Philips Corporation. Magnetic field sensor compensated for offset error. 4,694,248, 9-15-87, Cl. 324-252.000.
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- Kordomenos, Panagiotis I., and Dervan, Andrew H., to Du Pont de Nemours, E. I., and Company. Chip resistant coating composition III. 4,694,051, 9-15-87, Cl. 525-437.000.
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- Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., to Du Pont de Nemours, E. I., and Company. Chip resistant primer composition I'. 4,698,399, 10-6-87, Cl. 525-449.000.
- Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., to Du Pont de Nemours, E. I., and Company. Chip resistant primer composition III. 4,698,400, 10-6-87, Cl. 525-450.000.
- Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., to Du Pont de Nemours, E. I., and Company. Chip resistant primer composition IV. 4,698,402, 10-6-87, Cl. 525-533.000.
- Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., to Du Pont de Nemours, E. I., and Company. Chip resistant primer composition VI'. 4,699,955, 10-13-87, Cl. 525-440.000.
- Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., to Du Pont de Nemours, E. I., and Company. Chip resistant primer composition V. 4,699,957, 10-13-87, Cl. 525-450.000.
- Kordomenos, Panagiotis I.; Dervan, Andrew H.; and Grebur, Dennis J., to Du Pont de Nemours, E. I., and Company. Chip resistant primer composition VI. 4,699,958, 10-13-87, Cl. 525-528.000.
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  - Helzel, Thomas; Kordts, Jurgen; and Martens, Gerhard, 4,664,12 Cl. 128-774.000.
- Kordulla, Hans; Jansen, Dirk; and Schmid, Gunter, to Bodenseewerk Geratetechnik GmbH. Pick-up head for incremental transmitter, particularly angular incremental transmitter. 4,700,065, 10-13-87, Cl. 250-231.0SE.
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  - Gil, Kim Y.; and Sun, Lee C., 4,710,347, Cl. 435-94.000.
  - Jung, Il N.; Cho, Ko D.; Lim, John C.; and Yoo, Bok-Ryul, 4,701,430, Cl. 502-62.000.
  - Shin, Myung Chul; Kim, Chil Sung; Chang, Young Hoon; and Je Kwang Koo, 4,683,721, Cl. 60-527.000.
  - Uhm, Sung J.; Lee, Tae J.; Choi, Eun S.; and Yu, Dong W., 4,675,434, Cl. 560-99.000.
  - Un, Chong K.; Ryu, Seung M.; and Lee, Chong R., 4,701,905, Cl. 370-18.000.
- Korec, Stefan, to Georgetown University. Process for treatment of tumors and apparatus therefor. 4,634,417, 1-6-87, Cl. 604-4.000.
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  - Kanno, Michio; and Koremura, Mitsumasa, 4,689,149, Cl. 210-321.300.
- Korenaga, Tetsuya. Low-frequency electrotherapy apparatus. 4,676,246, 6-30-87, Cl. 128-399.000.

orenberg, Jacob, to Donlee Technologies Inc. Two stage circulating fluidized bed reactor and method of operating the reactor. 4,688,521, 8-25-87, Cl. 122-4.00D.

orenek, Albert H. Tree moving apparatus. 4,658,518, 4-21-87, Cl. 37-2.00R.

oresh, Jacob E.: *See—*

Soffer, Abraham; Koresh, Jacob E.; and Saggy, Shlomo, 4,685,940, Cl. 55-158.000.

orf, Dieter: *See—*

Sarstedt, Walter; and Korf, Dieter, 4,687,479, Cl. 604-403.000.

orf Engineering GmbH: *See—*

Hauk, Rolf, 4,673,432, Cl. 75-38.000.

Hauk, Rolf; and Kepplinger, Werner, 4,708,736, Cl. 75-26.000.

Henders, Siegfried, 4,693,295, Cl. 164-433.000.

Milionis, Konstantin, 4,699,655, Cl. 75-38.000.

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Graef, Kurt; Axt, Egon; Wirtz, Hans-Peter; Lauscher, Friedrich; Potzsch, Werner; Korfer, Peter; Sastrarahardja, Paulus; Croonen, Werner; and Serf, Josef, 4,649,763, Cl. 74-763.000.

orhonen, Kaarlo J. Support apparatus for butchering an animal quarter. 4,651,384, 3-24-87, Cl. 17-44.000.

ori, Teruhiko: *See—*

Yamazaki, Minoru; and Kori, Teruhiko, 4,677,504, Cl. 360-77.000.

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Korn, Julius A.; and Schwartz, Charles H., 4,655,487, Cl. 292-57.000.

Korn, Gunther, to Frankische Rohrwerke Gebr. Kirchner GmbH & Co. Apparatus for making plastic tubes. 4,674,969, 6-23-87, Cl. 425-325.000.

Korn, Heinrich, to Roder GmbH Sitzmobelwerke. Apparatus for supporting parts of furniture. 4,707,025, 11-17-87, Cl. 297-300.000.

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Kornel, Alfred: *See—*

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Kornelis, Hendrik: *See—*

Klepper, Guy E. D.; Kornelis, Hendrik; and Alie, Jean-Claude, 4,667,722, Cl. 152-543.000.

Kornely, Michael, to Grumman Aerospace Corporation. Self balancing electric hoist. 4,658,971, 4-21-87, Cl. 212-159.000.

Kornena, Elena P.: *See—*

Arutjunian, Norair S.; Kornena, Elena P.; Kazarian, Robert V.; Ponomareva, Natalya A.; Redko, Grigory V.; Sakhno, Lidia T.; and Zhadkova, Irina S., 4,713,155, Cl. 204-155.000.

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Hilbert, Robert S.; and Korniski, Ronald J., 4,688,906, Cl. 350-462.000.

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Korotky, Steven K.: *See—*

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Korpela, Paavo: *See—*

Kristola, Oswald; and Korpela, Paavo, 4,692,983, Cl. 29-432.000.

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Korte, Friedrich W. A. G. K.: *See—*

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Korte, K. R.: *See—*

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  Wells, William, 4,687,440, Cl. 432-194.000.
Kortegaard, Bert L.: *See—*
  Jones, Rollin G.; Kortegaard, Bert L.; and Jones, David F., 4,689,541, Cl. 318-696.000.
Kortenbach Verwaltungs-und Beteiligungsgesellschaft mbH & Co.: *See—*
  Schultes, Tilmann, 4,682,616, Cl. 135-38.000.
  Schultes, Tilmann; and Stiller, Klaus, 4,682,617, Cl. 135-38.000.
Kortenbach Verwaltungs-und Beteiligungsgesellsheaft mgH & Co.: *See—*
  Schultes, Tilmann; and Seidel, Joachim, 4,687,012, Cl. 135-75.000.
Kortering, Randall L.; and Berry, Gordon C., to Haworth, Inc. Toolless mounting arrangement. 4,633,789, 1-6-87, Cl. 108-152.000.
Kortering, Randall L.; and Gartland, Paul S., to Haworth, Inc. Slidable work surface. 4,660,477, 4-28-87, Cl. 108-108.000.
Kortgen, Bernd: *See—*
  Freitag, Herbert; Fuhrmann, Castor; and Kortgen, Bernd, 4,651,979, Cl. 267-64.130.
Korth, Bernd, to Protoned B.V. Rotatable and vertically adjustable single-column presentation stand. 4,645,081, 2-24-87, Cl. 211-196.000.
Korth, Hans-Erdmann, to International Business Machines Corporation. White light interferometer. 4,641,971, 2-10-87, Cl. 356-357.000.
Korth, Knut; and Hluchy, Heinz, to Olympus Winter & Ibe, GmbH. Canal forming device for percutaneous nephroscopy. 4,633,860, 1-6-87, Cl. 128-305.000.
Korthaus, Ernst. Reciprocating pump for fluids, specifically such contaminated by solids. 4,664,606, 5-12-87, Cl. 417-454.000.
Korthaus, Helmut: *See—*
  Wilke, Richard; and Korthaus, Helmut, 4,680,982, Cl. 74-424.80R.
Korthoff, Herbert W.; and Green, David T., to United States Surgical Corporation. Surgical fastener exhibiting improved hemostasis. 4,667,674, 5-26-87, Cl. 128-334.00C.
Kortmann, Heinrich; and Bock, Wolfgang, to Studiengesellschaft fur Eisenerzaufbereitung. Method of minimizing reduction disintegration of iron ores and iron ore agglomerates to be used as blast furnace burden. 4,695,315, 9-22-87, Cl. 75-0.50R.
Kortmann, Robert W. Hydrologic discharge control assembly and method. 4,669,914, 6-2-87, Cl. 405-52.000.
Kortright, Kenneth H.; and Hofheinz, David E., to Coulter Corporation. Monoclonal antibody to a human carcinoma tumor associated antigen. 4,708,930, 11-24-87, Cl. 435-7.000.
Kortschinski, Juri; Mintz, John D.; and Filter, Reinhard. Fault current diverter. 4,685,021, 8-4-87, Cl. 361-42.000.
Kortschinski, Juri; Lat, Michael V.; Maurice, Claude G.; and Tickner, Derek C. Current-limiting surge arrester disconnector. 4,710,847, 12-1-87, Cl. 361-125.000.
Korwin, David A.; and Remillard, Robert E., to Ingersoll Milling Machine Company, The. Dust collecting apparatus. 4,662,117, 5-5-87, Cl. 51-5.00R.
Korzeczek, Karl-Ludwig: *See—*
  Soechtig, Wolfgang; Wagner, Peter; and Korzeczek, Karl-Ludwig, 4,643,581, Cl. 366-76.000.
Korzekwa, Tadeusz M.; McMurtry, Carl H.; and Boecker, Wolfgang D. G., to Stemcor Corporation. Vibratory grinding of silicon carbide. 4,695,294, 9-22-87, Cl. 51-307.000.
Korzekwa, Tadeusz M.: *See—*
  Boecker, Wolfgang D. G.; and Korzekwa, Tadeusz M., 4,693,988, Cl. 501-89.000.
Korzenecki, Paul, to Mac Engineering and Equipment Company, Inc. Flow through apparatus for manufacturing battery plates. 4,665,861, 5-19-87, Cl. 118-668.000.
Korzeniowski, Stephen H., to Du Pont de Nemours, E. I., and Company. Fluorine-containing copolymers. 4,716,208, 12-29-87, Cl. 526-245.000.
Korzun, Alexander: *See—*
  Ferris, Donald L.; Gendreau, Johnny P.; and Korzun, Alexander, 4,688,993, Cl. 416-114.000.
Kos, Joseph M.; and Rapp, Allen F., to United Technologies Corporation. Speed avoidance logic for a variable speed wind turbine. 4,700,081, 10-13-87, Cl. 290-44.000.
Kos, Joseph M.: *See—*
  Doman, Glidden S.; Kos, Joseph M.; Harner, Kermit I.; DiValentin, Eugene D.; and Healy, Henry S., 4,695,736, Cl. 290-44.000.
Kosa, Nadhir B., to GV Medical, Inc. Fiber tip monitoring and protection assembly. 4,695,697, 9-22-87, Cl. 219-121.0LZ.
Kosa, Yasunobu: *See—*
  Shimizu, Shinji; Komori, Kazuhiro; Kosa, Yasunobu; and Sugiura, June, 4,651,406, Cl. 29-571.000.
Kosak, Imogene. Hot or cold compress with bladder enclosure. 4,645,498, 2-24-87, Cl. 604-289.000.
Kosak, John R.: *See—*
  Blaisdell, Charles T.; Cordes, Walter J.; Heinsohn, George E.; Kook, John F.; and Kosak, John R., 4,698,438, Cl. 558-3.000.
Kosaka, Chihiro: *See—*
  Ishii, Hidekazu; and Kosaka, Chihiro, 4,693,619, Cl. 400-212.000.
Kosaka, Etsuji. Clamping device for underground pipes. 4,647,073, 3-3-87, Cl. 285-23.000.
Kosaka, Etsuji: *See—*
  Yoshida, Shoji; Haru, Yasuhiko; Kosaka, Etsuji; Ikeda, Toshimichi; Aoyama, Mikio; and Iida, Takeo, 4,691,788, Cl. 175-62.000.
Kosaka, Jiro, to Meiko Industry Corporation, Ltd. Combustion chamber apparatus and method. 4,633,790, 1-6-87, Cl. 110-347.000.
Kosaka, Masato; and Yamazaki, Tatsu, to Kayaba Kogyo Kabushiki Kaisha. Axial piston pump or motor with multi position swash plate. 4,690,036, 9-1-87, Cl. 91-506.000.
Kosaka, Michitaka; Mohri, Satoshi; Kawano, Katsumi; Sasaki, Toshiro; Miyamoto, Shoji; and Nakajima, Takashi, to Hitachi, Ltd. Method and apparatus for determining satellite attitude by using star sensor. 4,658,361, 4-14-87, Cl. 364-434.000.
Kosaka, Michitaka; Kawano, Katsumi; and Miyamoto, Shoji, to Hitachi, Ltd. Method of localizing a moving body. 4,713,768, 12-15-87, Cl. 364-460.000.
Kosaka, Michitaka: *See—*
  Sasaki, Toshiro; Kosaka, Michitaka; Mohri, Satoshi; Kawano, Katsumi; and Miyamoto, Shoji, 4,680,718, Cl. 364-455.000.
Kosaka, Mineo: *See—*
  Yasue, Kazuo; Nishio, Toshiyuki; and Kosaka, Mineo, 4,671,908, Cl. 264-9.000.
Kosaka, Minoru; and Banno, Tutomu, to Pioneer Electronic Corporation. Recording disk data playback apparatus. 4,698,695, 10-6-87, Cl. 358-338.000.
Kosaka, Minoru; and Banno, Tutomu, to Pioneer Electronic Corporation. Recording disk data playback apparatus. 4,703,367, 10-27-87, Cl. 358-339.000.
Kosaka, Minoru: *See—*
  Banno, Tutomu; and Kosaka, Minoru, 4,675,749, Cl. 358-342.000.
  Naito, Ryuichi; Kosaka, Minoru; and Kawamura, Katsumi, 4,637,005, Cl. 369-45.000.
Kosaka, Takao; Okumura, Fumio; and Tsukahara, Hirokazu, to Mitsubishi Paper Mills, Ltd. Process for producing microcapsules. 4,711,749, 12-8-87, Cl. 264-4.700.
Kosaka, Tsuneo; and Sakai, Yukio, to Mitsubishi Gas Chemical Company, Inc. Process for preparing pyromellitic dianhydride. 4,694,089, 9-15-87, Cl. 549-239.000.
Kosaka, Yoshio: *See—*
  Sawamura, Kentaro; Kosaka, Yoshio; and Yamaguchi, Masayasu, 4,672,046, Cl. 501-98.000.
  Sawamura, Kentaro; Kosaka, Yoshio; and Yamaguchi, Masayasu, 4,711,861, Cl. 501-98.000.
Kosaka, Yoshiteru: *See—*
  Nishimoto, Naomichi; Hirota, Akira; and Kosaka, Yoshiteru, 4,644,412, Cl. 358-335.000.
Kosaka, Yuzo: *See—*
  Wada, Hiroshi; and Kosaka, Yuzo, 4,716,110, Cl. 435-25.000.
Kosakowski, Alex S.; and Lundqvist, Mats A., to Geotronics AB. Arrangement for holding an instrument in alignment with a moving reflector. 4,712,915, 12-15-87, Cl. 356-152.000.
Kosan Crisplant A/S: *See—*
  Hartlepp, Karl H., 4,682,682, Cl. 198-368.000.
  Prydtz, Ole, 4,635,785, Cl. 198-365.000.
Kosanovich, Milan: *See—*
  Wunsche, Edgar R.; Wunsche, Alan A.; and Kosanovich, Milan, 4,653,730, Cl. 266-47.000.
Kosarski, Raymond, Jr.; and Jackson, Robert W., to Allied Corporation. Hydraulic power brake apparatus. 4,679,397, 7-14-87, Cl. 60-562.000.
Kosarzecki, Constantine, to Modular Controls Corporation. Pressure relief valve. 4,653,527, 3-31-87, Cl. 137-244.000.
Kosch, Delmar D., to Weldmatic Patents, Inc. Welding wire dispenser. 4,681,277, 7-21-87, Cl. 242-156.200.
Koschier, Friedlieb: *See—*
  Peppmoller, Reinmar; and Koschier, Friedlieb, 4,711,919, Cl. 524-77.000.
Koschinski, Ingo: *See—*
  Reichert, Karl-Heinz; and Koschinski, Ingo, 4,657,945, Cl. 523-200.000.
  Reichert, Karl-Heinz; and Koschinski, Ingo, 4,710,546, Cl. 525-420.000.
Kosednar, Joseph F.; Mohrman, Raymond F.; and Gundlach, Philip M., Jr., to Mon-A-Therm, Inc. Temperature measuring instrument and adapter for same. 4,669,049, 5-26-87, Cl. 364-557.000.
Kosednar, Joseph F.; and Barth, Merlyn W. Fraud-resistant manual magnetic reader-writer system for debit card use. 4,711,993, 12-8-87, Cl. 235-380.000.
Kosek, Robert E., to Sterner Lighting Systems Incorporated. Sleeve type lamp stabilizer. 4,704,668, 11-3-87, Cl. 362-390.000.
Koseki, Hiroyuki; Watanabe, Jun; and Takano, Nanako, to Bridgestone Corporation. Heavy duty pneumatic radial tires. 4,669,520, 6-2-87, Cl. 152-527.000.
Koseki, Hiroyuki: *See—*
  Kawasaki, Kiyohito; Sato, Michitaka; Koseki, Hiroyuki; and Matsunuma, Tamotsu, 4,715,419, Cl. 152-527.000.
Koseki, Ryoji, to Amada Engineering & Service Co., Inc. Laser tube holder in a laser oscillator. 4,641,314, 2-3-87, Cl. 372-65.000.
Koseki, Ryoji, to Amada Engineering & Service Co., Inc. Flow control device for a laser generator. 4,646,310, 2-24-87, Cl. 372-58.000.
Koseki, Ryoji, to Amada Engineering & Service Co., Inc. Laser generator. 4,646,336, 2-24-87, Cl. 372-58.000.
Koseki, Ryoji, to Amada Engineering Service Co., Inc. Laser oscillator mirror adjustment apparatus. 4,672,626, 6-9-87, Cl. 372-107.000.
Koseki, Ryoji, to Amada Engineering Service Co., Inc. Rear mirror holder device for a laser generator. 4,679,204, 7-7-87, Cl. 372-107.000.
Koseki, Ryoji, to Amada Engineering Service Co., Inc. Mirror adjustment device in laser oscillator. 4,680,771, 7-14-87, Cl. 372-107.000.
Koseki, Ryoji, to Amada Engineering & Service Co., Inc. Device for suppressing electrical discharges between cathodes of laser oscillator. 4,703,487, 10-27-87, Cl. 372-33.000.
Koseki, Ryoji: *See—*
  Osada, Hidenori; and Koseki, Ryoji, 4,660,209, Cl. 372-58.000.
Koseki, Toshikazu; and Saito, Shigeaki, to NEC Corporation. Loopback of a PCM signal with loopback command signal bits placed in

each frame of the signal as predetermined ones of overhead bits. 4,686,668, 8-11-87, Cl. 370-15.000.

Koseki, Yasuo; Yamada, Akira; Kurokawa, Hideki; Matsuzaki, Harumi; Ebara, Katsuya; and Takahashi, Sankichi, to Hitachi, Ltd. Heat storing apparatus. 4,638,646, 1-27-87, Cl. 62-478.000.

Koseki, Yasuo; Ebara, Katsuya; Takahashi, Sankichi; Matsuoka, Kazuhiko; Kuroiwa, Minoru; and Yamada, Akira, to Hitachi, Ltd. Impurity detector. 4,670,137, 6-2-87, Cl. 210-96.100.

Koseki, Yuji: *See—*
  Ishikawa, Kazumasa; and Koseki, Yuji, 4,695,898, Cl. 358-296.000.

Koser, Jaroslav: *See—*
  Eder, Theodor; and Koser, Jaroslav, 4,662,299, Cl. 114-84.000.

Kosfeld, Gerhard: *See—*
  Herrnkind, Wolfgang; Itzenhauser, Reinhard; and Kosfeld, Gerhard, 4,663,244, Cl. 428-564.000.

Kosha, Hideaki: *See—*
  Ryoke, Katsumi; Yamaguchi, Nobutaka; Takahashi, Masatoshi; Hanai, Kazuko; Kosha, Hideaki; and Tadokoro, Eiichi, 4,649,072, Cl. 428-212.000.
  Ryoke, Katsumi; Yamaguchi, Nobutaka; Takahashi, Masatoshi; Hanai, Kazuko; Kosha, Hideaki; and Tadokoro, Eiichi, 4,686,139, Cl. 428-323.000.
  Ryoke, Katsumi; Yamaguchi, Nobutaka; Takahashi, Masatoshi; Hanai, Kazuko; Kosha, Hideaki; and Tadokoro, Eiichi, 4,696,858, Cl. 428-323.000.

Koshi, Hiroyuki, to Hitachi, Ltd. Device for measuring fluorescence polarization. 4,699,512, 10-13-87, Cl. 356-318.000.

Koshi, Hiroyuki: *See—*
  Kimura, Mitsuyoshi; Nogami, Taro; Owada, Minoru; and Koshi, Hiroyuki, 4,647,202, Cl. 356-318.000.

Koshi, Isei: *See—*
  Igarashi, Takeshi; Endo, Toshihiko; and Koshi, Isei, 4,673,636, Cl. 435-34.000.

Koshi, Kenichi: *See—*
  Yoshida, Kunihiko; Koshi, Kenichi; and Ichiki, Nobuhiko, 4,706,932, Cl. 251-31.000.

Koshi, Minekazu; Fukao, Osamu; Saito, Taisuke; Sakan, Tatsuo; and Nakahara, Seiichi, to Nippon Carbide Kogyo Kabushiki Kaisha. Process for producing azine compounds. 4,647,697, 3-3-87, Cl. 564-249.000.

Koshi, Mitsuo: *See—*
  Yoshino, Hozo; Koshi, Mitsuo; and Sumiyoshi, Osamu, 4,634,952, Cl. 318-811.000.

Koshiba, Sadahiro: *See—*
  Sakakibara, Shiro; and Koshiba, Sadahiro, 4,650,444, Cl. 474-201.000.
  Sakakibara, Shiro; Sobue, Norio; Miyaishi, Yoshinori; Koshiba, Sadahiro; and Hasebe, Masahiro, 4,655,735, Cl. 474-245.000.

Koshida, Yoshinori: *See—*
  Isobe, Minoru; Koshida, Yoshinori; and Yuasa, Katunori, 4,715,594, Cl. 271-65.000.
  Kikuchi, Hiroshi; Koshida, Yoshinori; and Itaya, Takashi, 4,676,681, Cl. 400-247.000.

Koshigaya, Akira: *See—*
  Shiba, Yoshio; Koshigaya, Akira; and Kimura, Kouichi, 4,643,630, Cl. 415-589.000.

Koshigoe, Shinpei; and Fujiwara, Takeshi, to Tokyo Shibaura Denki Kabushiki Kaisha. Electron gun. 4,641,058, 2-3-87, Cl. 313-449.000.

Koshii, Taro: *See—*
  Kondo, Hidetoshi; and Koshii, Taro, 4,677,160, Cl. 524-860.000.

Koshiishi, Takaho, to Ricoh Company, Ltd. Image information processing system. 4,652,933, 3-24-87, Cl. 358-256.000.

Koshiji, Fumio: *See—*
  Kono, Shigeyoshi; Tsutsui, Yoshimitsu; Koshiji, Fumio; and Sawayanagi, Tomohiko, 4,669,298, Cl. 72-453.130.

Koshijima, Jiro: *See—*
  Iwata, Hideo; Kitagawa, Yoshiaki; Koshijima, Jiro; and Tachibana, Tetsuya, 4,646,815, Cl. 165-56.000.

Koshijima, Tetsuo: *See—*
  Fujishima, Shizu; Yaku, Fumiko; and Koshijima, Tetsuo, 4,713,334, Cl. 435-99.000.

Koshimo, Masahiko, to Kabushiki Kaisha Daikin Seisakusho. Damper assembly for a clutch. 4,668,207, 5-26-87, Cl. 464-63.000.

Koshimuzi, Koichi: *See—*
  Sakata, Isao; Nakajima, Susumu; Koshimuzi, Koichi; Samejima, Natsuki; Inohara, Kazumi; and Takata, Hiroyuki, 4,709,022, Cl. 540-145.000.

Koshinaka, Eiichi: *See—*
  Itho, Yasuo; Kato, Hideo; Ogawa, Nobuo; Yamagishi, Kagari; Koshinaka, Eiichi; and Nishino, Hiroyuki, 4,638,009, Cl. 514-428.000.

Koshinaka, Osamu, to Maruzen Sewing Machine Co., Ltd. Swingable mounting for a trimmer in a overlock machine. 4,649,[illegible]41, 3-17-87, Cl. 112-129.000.

Koshinaka, Osamu: *See—*
  Mikuni, Yoshio; and Koshinaka, Osamu, 4,690,080, Cl. 112-162.000.

Koshino, Masayoshi, to Kabushiki Kaisha Toshiba. Acoustic surface wave resonator device. 4,683,394, 7-28-87, Cl. 310-313.00R.

Koshino, Minoru; and Matsumoto, Yasuo, to Fujitsu Limited. Error detection of scan-out in a diagnostic circuit of a computer. 4,698,754, 10-6-87, Cl. 364-200.000.

Koshino, Nagaaki: *See—*
  Goto, Yasuyuki; Koshino, Nagaaki; Ogawa, Seiya; Goto, Hironori; and Ogawa, Koichi, 4,650,742, Cl. 430-271.000.

Koshino, Yutaka; Akiyama, Tatsuo; and Baba, Yoshiro, to Kabushiki Kaisha Toshiba. Composite semiconductor device. 4,710,794, 12-1-87, Cl. 357-49.000.

Koshino, Yutaka: *See—*
  Shimada, Kizashi; Akiyama, Tatsuo; and Koshino, Yutaka, 4,700,455, Cl. 437-39.000.

Koshio, Tatsukichi: *See—*
  Taguchi, Teisu; and Koshio, Tatsukichi, 4,672,638, Cl. 375-99.000.

Koshio, Tomoaki, to Mazda Motor Corporation. Control for steplessly variable transmission. 4,671,140, 6-9-87, Cl. 74-868.000.

Koshizuka, Atuo, to Fujitsu Limited. Sense amplifier. 4,634,900, 1-6-87, Cl. 307-530.000.

Koshizuka, Kunihiro; Kitamura, Shigehiro; Abe, Takao; Nakamura, Masaki; Ishii, Fumio; and Hotta, Yuji, to Konishiroku Photo Industry Co., Ltd. Heat-sensitive transfer recording medium. 4,643,917, 2-17-87, Cl. 427-256.000.

Koshizuka, Kunihiro; Abe, Takao; Kitamura, Shigehiro; and Watanabe, Hiroshi, to Konishiroku Photo Industry Co., Ltd. Thermal recording medium. 4,673,618, 6-16-87, Cl. 428-336.000.

Koshizuka, Kunihiro: *See—*
  Inaba, Yoshihiro; Koshizuka, Kunihiro; Machashi, Tatsuichi; and Abe, Takao, 4,707,406, Cl. 428-336.000.
  Machashi, Tatsuichi; Abe, Takao; Koshizuka, Kunihiro; and Inaba, Yoshihiro, 4,681,796, Cl. 428-212.000.

Koshoffer, John M.; Pfefferle, Richard A.; and Larson, Harold A., to United States of America, Air Force. Mixed flow augmentor incorporating a fuel/air tube. 4,686,826, 8-18-87, Cl. 60-261.900.

Koshugi, Junichi, to Kureha Kagaku Kogyo Kabushiki Kaisha. Aqueous solution as an eluent used in liquid chromatography. 4,666,861, 5-19-87, Cl. 436-161.000.

Koshy, Philip, to Joy Manufacturing Company. Apparatus and method for weld cladding cylindrical objects. 4,647,749, 3-3-87, Cl. 219-76.140.

Kosikowski, Frank V.; and Jimenez-Flores, Rafael, to Cornell Research Foundation, Inc. Method for removal of pharmaceutical antibiotics from contaminated milks. 4,689,151, 8-25-87, Cl. 210-641.000.

Kosikowski, Frank V.; and Jimenez-Flores, Rafael, to Cornell Research Foundation. Low-fat dairy coffee whitener. 4,689,245, 8-25-87, Cl. 426-72.000.

Kosinska, Wanda; Grzelak, Dorota; Penczek, Irena; and Bialy, Jan, to Enichem, S.p.A. Compositions of polyphenylene oxide or of mixtures of polyphenylene oxide with a styrene polymer. 4,687,799, 8-18-87, Cl. 524-100.000.

Kosiorek, Raymond S.; and Gatechair, Leslie R., to Ciba-Geigy Corporation. Ultraviolet radiation curable vehicle for ceramic colors, composition and method. 4,649,062, 3-10-87, Cl. 427-54.100.

Koske, Charles E., to Paccar, Inc. Cab engine air intake system and method. 4,689,060, 8-25-87, Cl. 55-385.00B.

Koskella, Martin P.: *See—*
  Sternberg, Stanley R.; Herteg, Glenn; Koskella, Martin P.; and Berla, Timothy S., 4,665,551, Cl. 382-49.000.

Koski, Gerald L.: *See—*
  Mieyal, David F.; and Koski, Gerald L., 4,696,142, Cl. 52-762.000.

Koski, Philip A. Dental floss dispenser. 4,657,034, 4-14-87, Cl. 132-92.00R.

Koskimies, Jouni: *See—*
  Ilmoniemi, Erkki; Koskimies, Jouni; Lyytinen, Markku; Pitkajarvi, Kari; and Ottelin, Esa, 4,687,548, Cl. 162-216.000.

Koskimies, Salme: *See—*
  Ahlfors, Matts; Koskimies, Salme; Lahtinen, Leila; and Idelman, Peter, 4,694,099, Cl. 560-75.000.

Koskinen, Erkki, to Oy W. Rosenlew AB. Flexible container for transporting and storing bulk goods. 4,715,635, 12-29-87, Cl. 294-68.100.

Koskinen, Seppo V.: *See—*
  Salminen, Karl O.; Heino, Heimo J.; Lehtonen, Pertti T.; Koskinen, Seppo V.; Kivisto, Tuomo V.; Rinta-Keturi, Lasse J.; and Sipila, Heikki J., 4,703,846, Cl. 198-631.000.

Kosky, Philip G.; Silva, James M.; Brunelle, Daniel J.; and Shannon, Thomas G., to General Electric Company. Reducing phosgenation reaction temperatures. 4,649,210, 3-10-87, Cl. 558-265.000.

Kosley, Jr.; Raymond W.; and Seuring, Bernhard, to Hoechst-Roussel Pharmaceuticals Inc. Ethanobenzazepines. 4,654,336, 3-31-87, Cl. 514-214.000.

Kosley, Raymond W., Jr.; and Cherill, Robert J., to Hoechst-Roussel Pharmaceuticals Inc. Labdane compounds, pharmaceutical compositions and use. 4,639,443, 1-27-87, Cl. 514-222.000.

Kosley, Raymond W., Jr.; and Cherill, Robert J., to Hoechst-Roussel Pharmaceuticals Inc. Aminoacyllabdanes, pharmaceutical compositions and use. 4,639,446, 1-27-87, Cl. 514-222.000.

Kosley, Raymond W., Jr.; and Cherill, Robert J., to Hoechst-Roussel Pharmaceuticals Inc. Aminoacyllandanes, pharmaceutical compositions and use. 4,666,904, 5-19-87, Cl. 514-222.000.

Kosley, Raymond W., Jr.; and Cherill, Robert J., to Hoechst-Roussel Pharmaceuticals Inc. Intermediates for spiro[2H-1,4-benzodioxepin-3(5H)4' piperidine and -3'-pyrrolidine] compounds. 4,668,791, 5-26-87, Cl. 546-221.000.

Kosley, Raymond W., Jr.; and Cherill, Robert J., to Hoechst-Roussel Pharmaceuticals Inc. Process for preparing aminoacyllabdanes. 4,672,115, 6-9-87, Cl. 544-58.200.

Kosley, Raymond W., Jr.; and Cherill, Robert J., to Hoechst-Roussel Pharmaceuticals Inc. Aminoacyllabdanes. 4,673,752, 6-16-87, Cl. 549-389.000.

Kosley, Raymond W., Jr.; and Cherill, Robert J., to Hoechst-Roussel Pharmaceuticals Inc. Labdane compounds, pharmaceutical compositions and use. 4,677,103, 6-30-87, Cl. 514-222.000.

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Koslow, Evan E. Energy efficient phase transfer/dispersion systems and methods for using the same. 4,643,852, 2-17-87, Cl. 261-93.000.

Koslow, Evan E.: *See*—

Miller, John D.; Koslow, Evan E.; and Williamson, Kenneth M., 4,676,807, Cl. 55-97.000.

Koslowski, Thomas, to Sicowa Verfahrenstechnik. Method for quick setting of a pourable raw mixture. 4,670,055, 6-2-87, Cl. 106-104.000.

Kosmas, Nikolaos. Bobbin in run-out detector, and a bobbin changing mechanism incorporating the detector. 4,681,050, 7-21-87, Cl. 112-278.000.

Kosmatka, Walter J., to General Electric Company. Faceted reflector for headlamps. 4,704,661, 11-3-87, Cl. 362-61.000.

Kosmos, Peter, to Austenal International, Inc. Uniformly fluorescing porcelain dental restorations. 4,645,455, 2-24-87, Cl. 433-203.100.

Kosoczky, Ibolya: *See*—

Messmer, Andras; Batori, Sandor; Hajos, Gyorgy; Benko, Pal; Pallos, Laszlo; Petocz, Lujza; Grasser, Katalin; and Kosoczky, Ibolya, 4,697,013, Cl. 544-183.000.

Kosonen, Markku: *See*—

Lankinen, Matti; Engdahl, Holger; Kohonen, Raimo; Niskanen, Jukka; and Kosonen, Markku, 4,687,583, Cl. 210-739.000.

Kosonocky, Walter F., to RCA Corporation. Charge coupled circuits. 4,646,119, 2-24-87, Cl. 357-24.000.

Kosonocky, Walter F.; Battson, Donald F.; and Levine, Peter A., to RCA Corporation. Field-transfer CCD imagers with poly-phase image registers, operated to provide pseudo line interlace on alternate fields. 4,656,518, 4-7-87, Cl. 358-213.000.

Kosonocky, Walter F., and Elabd, Hammam, to RCA Corporation. Edge passivated charge-coupled device image sensor. 4,665,420, 5-12-87, Cl. 357-24.000.

Kosonocky, Walter F., to RCA Corporation. Charge-coupled device channel structure. 4,667,213, 5-19-87, Cl. 357-24.000.

Kosonocky, Walter F.: *See*—

Elabd, Hammam; and Kosonocky, Walter F., 4,638,345, Cl. 357-24.000.

Elabd, Hammam; and Kosonocky, Walter F., 4,658,278, Cl. 357-24.000.

Elabd, Hammam; and Kosonocky, Walter F., 4,663,656, Cl. 358-75.000.

Savoye, Eugene D.; Kosonocky, Walter F.; and Wallace, Lloyd F., 4,658,497, Cl. 29-572.000.

Koss, Richard E. Basketball return device. 4,678,189, 7-7-87, Cl. 273-1.50A.

Koss, Richard E. Basketball return device. 4,714,248, 12-22-87, Cl. 273-1.50A.

Koss, Walter; and Jonas, Udo, to Koss, Walter. Device for selectively opening and closing tubular organs of the body. 4,643,169, 2-17-87, Cl. 128-1.00R.

Kossakowski, Edward J.: *See*—

Capobianco, Paul J.; Butwell, Kenneth F.; and Kossakowski, Edward J., 4,705,673, Cl. 423-229.000.

Kossett, John A., to Reell Precision Manufacturing Corp. Simplified method of securing the clutch spring to the torque input drum of a spring clutch, and resulting mechanism. 4,638,899, 1-27-87, Cl. 192-81.00C.

Kossey, Robert M.: *See*—

Chand, Sujeet; Amis, Jack B.; Cartwright, William; Sadre, Ahmad; and Kossey, Robert M., 4,663,726, Cl. 364-513.000.

Kosske, Wolf D.: *See*—

Laufhutte, Dieter; Schupphaus, Klaus; Trowe, Gunter; Kosske, Wolf D.; and Hubel, Friedrich, 4,663,134, Cl. 423-220.000.

Kossmann, Heribert; Matthaei, Lothar; Ley, Gregor; Wistuba, Eckehardt; and Wulgaris, Savas, to BASF Aktiengesellschaft. Binders for aqueous primers for wood paints. 4,636,548, 1-13-87, Cl. 524-524.000.

Kosson, Robert L.: *See*—

Edelstein, Fred; Haslett, Robert A.; Kosson, Robert L.; and Harwell, William, 4,685,512, Cl. 165-104.140.

Kossor, Michael G. Method and apparatus for controlling telephone line access. 4,683,583, 7-28-87, Cl. 379-200.000.

Kossowsky, Ram: *See*—

Fromson, Robert E.; Kossowsky, Ram; and Nunamaker, Charles S., 4,640,169, Cl. 83-685.000.

Kossuth, Donald A.: *See*—

Schneller, Joseph W.; Kossuth, Donald A.; and Robinson, J Stephen, 4,646,498, Cl. 52-309.120.

Kost, Joseph: *See*—

Langer, Robert S.; and Kost, Joseph, 4,657,543, Cl. 604-891.000.

Kostamovaara, Juha: *See*—

Myllylla, Risto; Kopola, Harri; Kostamovaara, Juha; and Ahola, Raimo, 4,640,514, Cl. 273-310.000.

Kostanecki, Andrew T.: *See*—

Madden, Paul R.; Kostanecki, Andrew T.; Mileos, George; and Michno, Michael J., Jr., 4,645,091, Cl. 220-85.00P.

Kosteck, Gregory R., to Olin Corporation. Vapor blasted bullet jacket. 4,660,263, 4-28-87, Cl. 29-1.230.

Kostecki, John A.: *See*—

Earhart, Jonathan P.; Kostecki, John A.; and McNutt, Adrian C., 4,713,119, Cl. 134-3.000.

Kostelnik, Robert J., to Atlantic Richfield Company. Polymerization process. 4,647,633, 3-3-87, Cl. 526-153.000.

Koster, Hans; and Weiler, Horst, to Seba-Dynatronic Mess- und Ortungstechnik GmbH. Fire-preventive housing for line delay measuring apparatus. 4,660,126, 4-21-87, Cl. 361-392.000.

Koster, Helmut. Automatic control of incident solar flux. 4,715,358, 12-29-87, Cl. 126-439.000.

Koster, Marinus P.; Soemers, Hermanus M. J. R.; and Dona, Marinus J. J., to U.S. Philips Corporation. Friction-disk transmission comprising a tiltable disk. 4,713,977, 12-22-87, Cl. 74-191.000.

Koster, Ole: *See*—

Bech, Marcus C.; and Koster, Ole, 4,694,637, Cl. 53-448.000.

Koster, Rainer: *See*—

Hohlein, Gunter; Hempelmann, Wilhelm; Waldenmeier, Gunter; Koster, Rainer; Meyer, Fritz; and Pfeifer, Ulrich, 4,643,311, Cl. 206-508.000.

Koster, Waldemar: *See*—

Huber, Reinhold; and Koster, Waldemar, 4,706,318, Cl. 14-16.500.

Koster, Wilfried: *See*—

Gottwald, Adolf; Klose, Odo; and Koster, Wilfried, 4,662,768, Cl. 401-139.000.

Koster, William H.; and Breuer, Hermann, to E. R. Squibb & Sons, Inc. ((3-Acylamino-2-oxo-1-azetidinyl)oxy)methyl)phosphinic acids. 4,670,554, 6-2-87, Cl. 540-355.000.

Koster, William H.: *See*—

Bisacchi, Gregory S.; and Koster, William H., 4,654,426, Cl. 549-548.000.

Slusarchyk, William A.; and Koster, William H., 4,638,061, Cl. 540-355.000.

Slusarchyk, William A.; Dejneka, Tamara; Koster, William H.; and Gordon, Eric M., 4,681,937, Cl. 540-355.000.

Sundeen, Joseph E.; Koster, William H.; and Zahler, Robert, 4,638,060, Cl. 540-203.000.

Sundeen, Joseph E.; Koster, William H.; and Zahler, Robert, 4,680,388, Cl. 540-203.000.

Kosterka, Donald W., to AGI Incorporated. Compact disc package and a method of making same. 4,709,812, 12-1-87, Cl. 206-310.000.

Kostka, William G.: *See*—

Large, David J.; Kostka, William G.; and Wayman, Richard A., 4,700,222, Cl. 358-86.000.

Kostler, Dieter: *See*—

Michel, Wolfgang; Paul, Heinz; Kostler, Dieter; Wilhelm, Frank; Rummel, Andreas; Seher, Gero; Henze, Wilfried; Hander, Ralf; Heinemann, Jurgen; and Ossowski, Manfred, 4,652,430, Cl. 422-142.000.

Kostlin, Heiner: *See*—

Bouman, Anton J.; Kostlin, Heiner; and Kroontje, Wiggert, 4,645,967, Cl. 313-248.000.

Kostol, Carl O.: *See*—

Thomassen, Thomas; and Kostol, Carl O., 4,671,945, Cl. 423-27.000.

Kostopoulos, George K. Composite character generator. 4,670,841, 6-2-87, Cl. 364-419.000.

Kostorz, Jan R., to Friedrich Grohe Armaturenfabrik GmbH & Co. Single hole mixing faucet. 4,698,858, 10-13-87, Cl. 4-192.000.

Kostov, Uriy R. Ice cube dispenser. 4,635,817, 1-13-87, Cl. 221-89.00

Kostrov, Sergei V.: *See*—

Debabov, Vladimir G.; Tsygankov, Jury D.; Chistoserdov, Andrei J.; Sverdlov, Evgeny D.; Izotova, Lara S.; Kostrov, Sergei V.; Sterkin, Viktor E.; Kuznetsov, Vladimir P.; Belyaev, Sergei V.; Monastyrskaya, Galina S.; Salomatina, Irina S.; Dolganov, Grigory M.; Arsenian, Sergei G.; Tsarev, Sergei A.; Kozlov, Jury I.; Strongin, Alexandr Y.; Ogarkov, Vsevolod I.; and Ovchinnikov, Jury A., 4,680,260, Cl. 435-68.000.

Kostrzewa, Michael: *See*—

Wallisch, Heinz; Felcht, Uth H.; and Kostrzewa, Michael, 4,672,113, Cl. 536-85.000.

Kostylev, Alexandr D.; Syryamin, Jury N.; Smolyanitsky, Boris N.; Boginsky, Vladimir P.; Terskov, Alexei D.; Mjuntser, Elena G.; and Petreev, Anatoly M., to Institut Gornogo Dela Sibirskogo Otdelenia Akademii Nauk. Percussive air tool. 4,653,596, 3-31-87, Cl. 173-135.000.

Kostylev, Alexandr D.; Ivinsky, Vasily I.; Filonov, Alexandr D.; and Klimashko, Vladimir V. Air-operated reversible percussive action machine. 4,683,960, 8-4-87, Cl. 173-91.000.

Kostylev, Alexandr D.; Plavskikh, Vladimir D.; Skachkov, Konstantin B.; Terskov, Alexei D.; Reznikov, Igor I.; and Tarasenko, Vladimir I., to Institut Gornogo Dela Sibirskogo Otdelenia Akademii Nauk SSSR. Reversible percussive action machine. 4,697,647, 10-6-87, Cl. 173-91.000.

Kostylev, Alexandr D.; Danilov, Boris B.; Smolyanitsky, Boris N.; Boginsky, Vladimir P.; Kogan, David I.; Smirnov, Oleg V.; and Saveliev, Vyacheslav N., to Institut Gornogo Dela Sibirskogo Otdelenia Akademii Nauk. Annular air-hammer apparatus for drilling holes. 4,705,119, 11-10-87, Cl. 175-92.000.

Kostylev, Alexandr D.; Boginsky, Vladimir P.; Smolyanitsky, Boris N.; Syryamin, Jury N.; Danilov, Boris B.; Kogan, David I.; and Saveliev, Vyacheslav N., to Institut Gornogo Dela Sibirskogo Otdelenia Akademii Nauk. Annular air hammer apparatus for drilling wells. 4,709,768, 12-1-87, Cl. 175-296.000.

Kostylev, Alexandr D.: *See*—

Gurkov, Konstantin S.; Kostylev, Alexandr D.; Tkachenko, Gennady A.; Leonov, Ivan P.; and Klimashko, Vladimir V., 4,637,476, Cl. 173-136.000.

Shemyakin, Evgeny I.; Kamensky, Veniamin V.; Kostylev, Alexandr D.; Sudnishnikov, Boris V.; Tupitsyn, Sergei K.; Tupitsyn, Konstantin K.; Plavskikh, Vladimir D.; and Chepurnoi, Nikolai P., 4,708,211, Cl. 175-19.000.

Tupitsyn, Konstantin K.; Tupitsyn, Sergei K.; Kostylev, Alexandr D.; Kamensky, Veniamin V., and Chufistov, Sergei A., 4,690,225, Cl. 173-116.000.

Kosuge, Hiroshi: *See—*

Kiriu, Yoshio; Kaneko, Shigeru; and Kosuge, Hiroshi, 4,692,922, Cl. 371-37.000.

Kosuge, Kazuo: *See—*

Ino, Yoichi; and Kosuge, Kazuo, 4,652,752, Cl. 250-281.000.

Kosuge, Minoru: *See—*

Sato, Naoki; Kamo, Yoshihisa; Katoh, Yasuhiro; Kosuge, Minoru; and Arai, Shinichi, 4,716,306, Cl. 307-296.00R.

Kosuge, Shuichi, to Nippondenso Co., Ltd. Automatic shift control system. 4,692,866, 9-8-87, Cl. 364-424.100.

Kosuge, Yutaka: *See—*

Kitagawa, Tadao; Kosuge, Yutaka; and Noda, Yoichiro, 4,639,713, Cl. 340-63.000.

Kosugi, Hiroaki: *See—*

Ogawa, Koichi; Uwano, Tomoki; Kosugi, Hiroaki; and Yamamoto, Junko, 4,700,194, Cl. 343-700.0MS.

Kosugi, Ken-ichi; Asahara, Yuuji; and Watanabe, Kazumi, to Anritsu Electric Company Limited. Automatic loading horizontal type of open-reel magnetic tape drive unit. 4,653,704, 3-31-87, Cl. 242-195.000.

Kosugi, Kenichi: *See—*

Owada, Toshiro; Kosugi, Kenichi; and Nagase, Yasuo, 4,691,909, Cl. 270-58.000.

Kosugi, Masao, to Canon Kabushiki Kaisha. Pattern transfer apparatus. 4,648,708, 3-10-87, Cl. 355-53.000.

Kosugi, Masao; and Kano, Ichiro, to Canon Kabushiki Kaisha. Device for adjusting projection magnification. 4,676,631, 6-30-87, Cl. 355-55.000.

Kosugi, Masao, to Canon Kabushiki Kaisha. Projection exposure apparatus having an alignment light of a wavelength other than that of the exposure light. 4,682,037, 7-21-87, Cl. 250-548.000.

Kosugi, Motoki; and Nakano, Hidetaka, to Yamaichi Electric Mfg. Co., Ltd. Flat cable connecting system. 4,641,904, 2-10-87, Cl. 339-99.00R.

Kosugi, Seiji; and Suzuki, Tadao, to Shoketsu Kinzoku Kogyo Kabushiki Kaisha. Electromagnetic valve. 4,643,393, 2-17-87, Cl. 251-129.010.

Kosugi, Tetsuo, to Hitachi, Ltd. Ceramic structure having thermal shock resistance. 4,705,761, 11-10-87, Cl. 501-87.000.

Kosugi, Yoshihiro: *See—*

Kumagai, Toru; and Kosugi, Yoshihiro, 4,706,108, Cl. 358-10.000.

Kosugi, Yoshinobu; and Tachibana, Kaoru, to Slik Tripod Co., Ltd. Universal head for a tripod. 4,697,772, 10-6-87, Cl. 248-183.000.

Kosugi, Yuhei, to NEC Corporation. Ultrahigh-frequency switch. 4,652,840, 3-24-87, Cl. 333-105.000.

Kosugi, Yuhei; and Ogawa, Shigeo, to NEC Corporation. High frequency connector. 4,669,805, 6-2-87, Cl. 439-581.000.

Kosulic, Kenneth F.: *See—*

Crandall, Robert E.; Kosulic, Kenneth F.; Rooney, Thomas C.; and Smith, Larry C., 4,681,033, Cl. 100-118.000.

Kot, Norbert J., II: *See—*

Horn, Edward R.; and Kot, Norbert J., II, 4,679,782, Cl. 269-228.000.

Kota, Masaharu: *See—*

Inoue, Jiro; and Kota, Masaharu, 4,705,981, Cl. 310-324.000.

Kotai, Ferenc: *See—*

Pongratz, Leonhard; Degener, Ulrich; Spoetzl, Markus; and Kotai, Ferenc, 4,674,396, Cl. 89-47.000.

Pongratz, Leonhard; Kotai, Ferenc; and Spotzl, Markus, 4,677,894, Cl. 86-45.000.

Kotaka, Fumitaka; and Maeda, Takanori, to Pioneer Electronic Corporation. Focus error detector. 4,695,158, 9-22-87, Cl. 356-123.000.

Kotaka, Hirofumi: *See—*

Ishizawa, Tadao; Kotaka, Hirofumi; and Kakinuma, Masami, 4,697,994, Cl. 418-8.000.

Kotaka, Yoshiro; Naito, Hideshi; and Shiokama, Yoshiharu, to Nippon Kogaku K. K. Aperture device for zoom lens. 4,636,041, 1-13-87, Cl. 350-429.000.

Kotake, Eiichi: *See—*

Akiyama, Naoki; Kitamura, Kenichi; and Kotake, Eiichi, 4,656,377, Cl. 310-68.00R.

Kotake, Haruhiko: *See—*

Hirama, Koichi; Miyazawa, Yuji; and Kotake, Haruhiko, 4,703,657, Cl. 73-702.000.

Kotaki, Masahiro: *See—*

Hayashi, Ken-ichi; Hirozawa, Kunikazu; and Kotaki, Masahiro, 4,646,208, Cl. 362-80.000.

Kotamaki, Esko, to Tunturipyora Oy. One-way clutch structure for a stationary exercise cycle. 4,671,396, 6-9-87, Cl. 192-41.00S.

Kotan, Hiroshi: *See—*

Kimura, Toshio; Nakagawa, Shuichi; Tokumo, Teruhiko; Yamamoto, Hiroyuki; Kotan, Hiroshi; Otsu, Hiroshi; and Satoh, Tetsuya, 4,649,399, Cl. 346-32.000.

Kotani, Akira: *See—*

Saito, Taiji; and Kotani, Akira, 4,702,079, Cl. 60-599.000.

Kotani, Kazunori: *See—*

Miura, Kuniaki; Yunde, Yasufumi; Kotani, Kazunori; Fukushima, Isao; and Kano, Kenji, 4,647,960, Cl. 358-37.000.

Kotani, Kunio; Hayashi, Akio; and Taniguchi, Seiho, to Nippon Unicar Company Ltd. Compositions based on mixtures of ethylene-ethyl acrylate copolymers and ethylene-vinyl acetate-vinyl chloride terpolymers. 4,648,986, 3-10-87, Cl. 252-511.000.

Kotani, Matahira: *See—*

Tanaka, Hironori; Matsumoto, Masafumi; and Kotani, Matahira, 4,696,462, Cl. 271-10.000.

Kotani, Ryuichi, to Iseto Shiko Co. Ltd. Process for manufacturing sealed postal envelope assemblies. 4,668,212, 5-26-87, Cl. 493-216.000.

Kotani, Shozo: *See—*

Usami, Hiroko; Yamamoto, Akihiro; Sugawara, Yutaka; Kotani, Shozo; and Kato, Keijiro, 4,678,773, Cl. 514-25.000.

Kotani, Toshihiro: *See—*

Kawasaki, Akihisa; Tada, Kohji; Kotani, Toshihiro; and Miyazawa, Shintaro, 4,684,515, Cl. 423-495.000.

Tada, Koji; Tatsumi, Masaru; Kotani, Toshihiro; and Sawada, Shinichi, 4,678,534, Cl. 156-607.000.

Kotchevar, Ann T.: *See—*

Kreevoy, Maurice M.; and Kotchevar, Ann T., 4,661,257, Cl. 210-638.000.

Kotecki, Carl A.: *See—*

Chason, Marc K.; Kotecki, Carl A.; Tomase, Joseph P.; Onystok, Michael J.; Ryback, Donald J.; Kinsman, Robert G.; Dworsky, Lawrence N.; Nield, Kenneth J.; and Moore, Steven C., 4,639,631, Cl. 310-344.000.

Kotelnikov, Jury S.: *See—*

Martyshenko, Jury P.; Martyshenko, Sergei J.; Kotelnikov, Jury S.; Kutukhtin, Evgeny G.; Ilyasova, Nelli I.; Volkov, Jury S.; Vardanian, Armenak M.; and Petrosian, Misha S., 4,701,075, Cl. 405-217.000.

Kotera, Masahide, to Canon Kabushiki Kaisha. Image signal processing apparatus. 4,674,126, 6-16-87, Cl. 382-53.000.

Kotera, Masahide: *See—*

Tanaka, Kanou; Konishi, Motofumi; Ando, Yoshio; Iwaya, Toshio; Kotera, Masahide; Hashimoto, Norio; Sugita, Yasutoshi; Sano, Yoshitaka; and Ono, Satoshi, 4,658,299, Cl. 358-256.000.

Kotera, Nobuo: *See—*

Harada, Yutaka; Kawabe, Ushio; Kotera, Nobuo; and Asano, Atsushi, 4,672,244, Cl. 307-476.000.

Kotera, Norio; Uegaki, Masatoshi; Yoshimura, Masakatsu; Masaki, Shinzaburo; Kaneoya, Tatsuo; Miyaoka, Takashi; Maegawa, Yuzo; and Fukasawa, Akira, to Sumitomo Chemical Company, Limited. Method for purifying 1-aminoanthraquinone. 4,695,407, 9-22-87, Cl. 760-378.000.

Koth, Detlev: *See—*

Karl, Alfons; Walter, Erwin; Kleinschmit, Peter; Gottschlich, Hermann; Kutz, Roland; and Koth, Detlev, 4,642,304, Cl. 502-427.000.

Kothe, Norbert; Dichtelmuller, Herbert; Stephan, Wolfgang; and Eichentopf, Bertram, to Biotest Pharma GmbH. Method of preparing a solution of lactic or colostric immunoglobulins or both and use thereof. 4,644,056, 2-17-87, Cl. 530-387.000.

Kothmann, Kody R. Method of inserting intramedullary coupled pin. 4,682,590, 7-28-87, Cl. 128-92.0YZ.

Kotilainen, Timo: *See—*

Wilkman, Goran; Kotilainen, Timo; Pulliainen, Juha; and Lindqvist, Gustav, 4,715,305, Cl. 114-40.000.

Kotilinek, Mark P.: *See—*

Holland, Brian J.; and Kotilinek, Mark P., 4,687,279, Cl. 439-578.000.

Kotitschke, Gerhard; and Horicke, Hans-Werner, to J. M. Voith GmbH. Device for transferring a paper web from the press section to the drying section of a paper machine. 4,677,763, 7-7-87, Cl. 34-116.000.

Kotitschke, Gerhard; and Benz, Wilheim, to J. M. Voith GmbH. Device for threading a transfer strip of a paper web through the drying cylinder section of a paper machine. 4,686,778, 8-18-87, Cl. 34-117.000.

Kotitschke, Gerhard; and Horicke, Hans-Werner, to J. M. Voith GmbH. Device for transferring a paper web from the press section to the drying section of a paper machine. 4,698,918, 10-13-87, Cl. 34-116.000.

Kotitschke, Herbert: *See—*

Schuel, Christian; and Kotitschke, Herbert, 4,691,420, Cl. 29-116.00R.

Kotliar, Abraham M.: *See—*

Sibilia, John P.; Kotliar, Abraham M.; Murthy, Narasimhaiah S.; and Sacks, William, 4,696,857, Cl. 428-323.000.

Kotlyar, Oleg, to Eastman Christensen Co. Universal mud pulse telemetry system. 4,703,461, 10-27-87, Cl. 367-83.000.

Kotmans, Hendrik J.: *See—*

Sluijter, Robert J.; and Kotmans, Hendrik J., 4,637,046, Cl. 381-49.000.

Koto Electric Co., Ltd.: *See—*

Harada, Saburo, 4,684,763, Cl. 174-52.0FP.

Koto, Kaoru: *See—*

Hirai, Yoichi; Fujii, Tsunenori; Koto, Kaoru; Suzuki, Kenji; Yoshida, Masahiro; Okawa, Hisashi; Okabe, Yoshiaki; Kitamura, Teruo; Yokokura, Hisao; Hattori, Shintaro; Mukoh, Akio; and Sato, Mikio, 4,694,098, Cl. 560-59.000.

Koto, Noriaki; Yukawa, Joei; and Moro, Takeo, to Nissan Chemical Industries, Ltd. Process for the production of a silver coated copper powder and conductive coating composition. 4,652,465, 3-24-87, Cl. 427-216.000.

Koto, Noriaki: *See—*

Tsubaki, Kazumi; Koto, Noriaki; and Maeda, Kouichi, 4,666,637, Cl. 260-543.00R.

Kotobuki & Co., Ltd.: *See—*

Kageyama, Hidehei; and Suzuki, Takahiko, 4,669,904, Cl. 401-115.000.

Kageyama, Hidehei, 4,676,684, Cl. 401-65.000.
Kageyama, Hidehei, 4,687,363, Cl. 401-65.000.
Kotobuki Engineering & Manufacturing Co., Ltd.: *See*—
Kawaguchi, Mitsuru, 4,667,887, Cl. 241-24.000.
Kotoda, Yoshihiro: *See*—
Tomita, Seiji; Morinaga, Kaoru; and Kotoda, Yoshihiro, 4,646,187, Cl. 360-130.210.
Kotoh, Keigo; and Nakamura, Nobuhiro, to Mitsubishi Denki Kabushiki Kaisha. Life buoy with a radar responder. 4,668,200, 5-26-87, Cl. 441-7.000.
Kotoh, Keigo, to Mitsubishi Denki Kabushiki Kaisha. Rescue transmitter apparatus. 4,673,936, 6-16-87, Cl. 342-51.000.
Kotoh, Keigo; and Nakamura, Nobuhiro, to Mitsubishi Denki Kabushiki Kaisha. Radar responder. 4,682,173, 7-21-87, Cl. 342-51.000.
Kotok, Alan: *See*—
Guglielmi, Paul M.; Melanson, Ronald J.; and Kotok, Alan, 4,712,190, Cl. 364-900.000.
Kotraro, Reuven: *See*—
Linder, Charles; Aviv, Gershon; Perry, Mordechai; and Kotraro, Reuven, 4,690,765, Cl. 210-654.000.
Linder, Charles; Aviv, Gershon; Perry, Mordechai; and Kotraro, Reuven, 4,690,766, Cl. 210-654.000.
Perry, Mordechai; Kotraro, Reuven; Linder, Charles; and Aviv, Gershon, 4,659,474, Cl. 210-638.000.
Kotschenreuther, Paul C.: *See*—
Caprio, A. Ronald; Cyr, John P.; Geaghan, Bernard O.; Kotschenreuther, Paul C.; Schanin, David J.; and Salett, Ronald M., 4,670,855, Cl. 364-900.000.
Kotschy, Josef: *See*—
Grabmaier, Christa; Kotschy, Josef; and Lerchenberger, August, 4,643,797, Cl. 156-603.000.
Kotsis, Laszlo : *See*—
Hudacsek, Istvan; Orcsik, Geza; Hazfalvy, Zoltan; Kotsis, Laszlo ; Nemeth, Endre; Noe, Laszlo ; and Oviri, Ferenc, 4,703,645, Cl. 73-11.000.
Kotsuzumi, Yuzo; and Ohsaki, Ryouhei, to Oki Electric Industry Co., Ltd. Wire dot-matrix printer. 4,652,153, 3-24-87, Cl. 400-56.000.
Kott, Joseph A. Lumbar traction device having stand separate from bed with counter-balancing weights. 4,674,484, 6-23-87, Cl. 128-75.000.
Kottas, Robert P. Tool for removing residues. 4,706,416, 11-17-87, Cl. 51-170.00T.
Kottemann, William J. Orthodontic archwire. 4,659,310, 4-21-87, Cl. 433-20.000.
Kottgen, Eckart U.: *See*—
Fabricius, Hans-Ake; and Kottgen, Eckart U., 4,661,447, Cl. 435-68.000.
Fabricius, Hans-Ake; and Kottgen, Eckart U., 4,681,844, Cl. 435-68.000.
Kotthaus, Erich, to Werkzeugmaschinenfabrik Oerlikon-Buhrle AG. Gear cutting method and machine for cutting spiral bevel gears and contrate gear face clutches. 4,664,569, 5-12-87, Cl. 409-28.000.
Kotting, Fritz; and Barwasser, Gunther, to Wernicke & Co. GmbH. Spectacle lens edge grinding machine. 4,637,168, 1-20-87, Cl. 51-50.0PC.
Kottke, Joachim; and Zerrer, Gerhard, to Andreas Stihl. Rotation-preventing locking device for a portable tool. 4,690,252, 9-1-87, Cl. 188-69.000.
Kottke, Louis E., to Acco Babcock Inc. Flexible cable assembly. 4,655,729, 4-7-87, Cl. 464-58.000.
Kottke, Louis E., to Acco Babcock Inc. Method of making a flexible cable assembly. 4,716,001, 12-29-87, Cl. 264-145.000.
Kottmair, Nikolaus: *See*—
Bayerlein, Friedrich; Habereder, Peter-Paul; Keramaris, Nikolaos; Kottmair, Nikolaus; and Kuhn, Manfred, 4,645,833, Cl. 536-17.100.
Kottman, Rickie A.; Terrill, Robert E.; and Wise, Ann E., to Texas Instruments Incorporated. Method for edge cleaning. 4,685,975, 8-11-87, Cl. 134-33.000.
Kottwitz, Bernd; and Loser, Norbert, to SKF GmbH. Axial joint arrangement with integrated seal. 4,687,347, 8-18-87, Cl. 384-141.000.
Kotwal, Pramod M.: *See*—
Gibbs, Irwin S.; and Kotwal, Pramod M., 4,665,098, Cl. 514-613.000.
Kotwica, Roland, to Societe Chimique des Charbonnages. Concentrating and dehydrating apparatus for maleic anhydride. 4,659,433, 4-21-87, Cl. 202-173.000.
Kotwicki, Allan J.: *See*—
Henry, Kenneth J.; and Kotwicki, Allan J., 4,680,959, Cl. 73-117.000.
Kotzin, Bernard. Caster having interfitting housing members with integral bearings and a separate axle. 4,689,848, 9-1-87, Cl. 16-46.000.
Kotzin, Michael D.: *See*—
Dolikian, Armin V.; Kotzin, Michael D.; and Budnik, Brian J., 4,654,881, Cl. 455-70.000.
Kotzmann, Heinz. Combustion process with ionization control. 4,695,245, 9-22-87, Cl. 431-9.000.
Kotzsch, Hans-Joachim; and Vahlensieck, Hans-Joachim, to Dynamit Nobel Aktiengesellschaft. Method for the preparation of persilylated carboxylic acid amides. 4,647,681, 3-3-87, Cl. 556-411.000.
Kotzsch, Hans-Joachim; and Vahlensieck, Hans-Joachim, to Dynamit Nobel Aktiengesellschaft. Method of preparing partially esterified silicon halides. 4,677,215, 6-30-87, Cl. 556-469.000.
Kotzsch, Hans-Joachim: *See*—
Groh, Reiner; Kotzsch, Hans-Joachim; Srebny, Hans-Gunther; and Vahlensieck, Hans-Joachim, 4,642,363, Cl. 556-471.000.
Kotzur, Joachim, to M.A.N. Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Magnetic bearing support gear train. 4,693,130, 9-15-87, Cl. 74-397.000.
Kouba, Jay K.; and Snyder, Robert B., to Amoco Corporation. Coproduction of butanediol and tetrahydrofuran and their subsequen separation from the reaction product mixture. 4,656,297, 4-7-87, C 549-508.000.
Kouchi, Tadashi: *See*—
Oyama, Hiroo; and Kouchi, Tadashi, 4,636,923, Cl. 362-80.000.
Kouchiwa, Taira; and Nishina, Kiichiro, to Ricoh Company, Ltd. Wide angle copying lens system. 4,690,518, 9-1-87, Cl. 350-464.000.
Kouchiwa, Taira, to Ricoh Company, Ltd. Color separating lens composed of three lens units. 4,711,536, 12-8-87, Cl. 350-476.000.
Kouchiwa, Taira: *See*—
Kammoto, Yoshiaki; Asai, Takahiro; Kouchiwa, Taira; Saitoh, Masanori; and Asano, Shunji, 4,647,961, Cl. 358-75.000.
Kanoh, Toshio; and Kouchiwa, Taira, 4,643,576, Cl. 356-353.00
Koudele, Larry J.: *See*—
Cronch, Robert D.; and Koudele, Larry J., 4,712,076, C 331-16.000.
Kouge, Shinichi, to Mitsubishi Denki Kabushiki Kaisha. Protection circuit for voltage regulator of vehicle mounted generator. 4,658,20 4-14-87, Cl. 322-25.000.
Kouge, Shinichi: *See*—
Morishita, Mitsuharu; and Kouge, Shinichi, 4,716,355, C 320-64.000.
Kouichi, Maeda; Masaaki, Funaki; Motoaki, Yoshida; and Yasuji, Ohsuka, to Nippon Sheet Glass Co. Ltd. Apparatus for producing light transmitting article of synthetic resin. 4,689,000, 8-25-87, C 425-67.000.
Kouji, Hiroyuki: *See*—
Hayashi, Yoshiharu; and Kouji, Hiroyuki, 4,698,094, Cl. 71-108.00
Kouji, Yamamoto: *See*—
Hitoshi, Yamazaki; Takao, Takeda; Shizuo, Nakano; Kouji, Yamamoto; Hiroshi, Ito; and Jun, Imai, 4,659,962, Cl. 313-493.000.
Koukal, Anton. Jig carriage for a recessing and shaping machine used i woodworking. 4,683,925, 8-4-87, Cl. 144-145.00R.
Koukal, Heinz: *See*—
Arold, Klaus; Koukal, Heinz; Grimm, Hermann, deceased; and Trube, Hans, 4,693,417, Cl. 237-12.30B.
Arold, Klaus; Grimm, Hermann, deceased; and Koukal, Heinz, 4,712,6[illegible], Cl. 165-41.000.
Kouketsu, Shigeaki: *See*—
Shimomura, Kenji; Kouketsu, Shigeaki; Okuyama, Toru; and Sato, Take, 4,696,952, Cl. 521-107.000.
Kouketu, Kouiti: *See*—
Kawano, Ken; Sibata, Takuo; and Kouketu, Kouiti, 4,644,815, C 74-467.000.
Koulbanis, Constantin: *See*—
Zabotto nee Arribau, Arlette; Contamin, Jean-Claude; Zaffran, Christian; and Koulbanis, Constantin, 4,637,933, Cl. 424-131.00
Kounal, George. Integrated rock reinforcement system and method using a continuous cable. 4,634,318, 1-6-87, Cl. 405-259.000.
Koumoto, Teruo: *See*—
Sato, Susumu; Honda, Haruyoshi; Koumoto, Teruo; Isomac Kazuo; Kuraishi, Tadayuki; and Katori, Tatsuhiko, 4,659,710, C 514-234.000.
Sato, Susumu; Honda, Haruyoshi; Koumoto, Teruo; Isomac Kazuo; Kuraishi, Tadayuki; and Katori, Tatsuhiko, 4,690,924, C 514-237.000.
Koumura, Noboru: *See*—
Ayata, Naoki; Saito, Seiji; Suzuki, Hidetoshi; Ozawa, Kunitaka; an Koumura, Noboru, 4,707,713, Cl. 346-140.00R.
Mizusawa, Nobutoshi; and Koumura, Noboru, 4,677,448, Cl. 34 140.00R.
Ozawa, Kunitaka; Ayata, Naoki; Suzuki, Hidetoshi; Saito, Seiji; an Koumura, Noboru, 4,694,502, Cl. 382-17.000.
Kounnas, Christopher N.: *See*—
Kallianos, Andrew G.; and Kounnas, Christopher N., 4,696,314, C 131-336.000.
Kouno, Katsumi, to Toyota Jidosha Kabushiki Kaisha. Device fo varying an equivalent inertia moment of a flywheel. 4,676,12 6-30-87, Cl. 74-574.000.
Kouno, Katsumi; and Sawada, Daisaku, to Toyota Jidosha Kabushi Kaisha. Hydraulic control system for continuously variable transm sion. 4,702,725, 10-27-87, Cl. 474-28.000.
Kouno, Kazuhiro: *See*—
Hinotani, Katsuhiro; Hayama, Hajime; Kishimoto, Shunichi; Miw Takashi; Funazo, Yasuo; and Kouno, Kazuhiro, 4,654,559, 313-422.000.
Kouno, Kazuo: *See*—
Nakano, Tasuku; Kouno, Kazuo; Hibino, Kazunari; and Sakur Masashi, 4,708,365, Cl. 280-801.000.
Kouno, Shinichi: *See*—
Fujioka, Yoshiki; and Kouno, Shinichi, 4,672,287, Cl. 318-800.0
Kouno, Shunzo: *See*—
Mouri, Hidemasa; Tobita, Michiaki; Eto, Naonobu; Kou Shunzo; Ohkura, Kosuke; Toganoh, Shigeo; Arai, Ryuic Sakaki, Mamoru; Iwata, Kazuo; and Shibasaki, Hiro 4,642,247, Cl. 427-214.000.
Kouno, Takamitu: *See*—
Nakamura, Koozoo; Hamada, Nagaharu; Tadauchi, Masaha Kozima, Yasuyuki; Suemori, Noboru; and Kouno, Takam 4,694,351, Cl. 358-256.000.

Kouno, Tomomitsu: *See—*

Sugihara, Masanori; Kurosawa, Atsushi; Okamoto, Akihiko; Shimoda, Kouji; Kimoto, Toshiyuki; and Kouno, Tomomitsu, 4,695,996, Cl. 369-77.100.

Kouno, Yosimi: *See—*

Ura, Katsumi; Sakka, Kenji; Kouno, Yosimi; and Inui, Taiji, 4,651,533, Cl. 60-678.000.

Kounou, Tadami: *See—*

Morishita, Akira; Akae, Yoshifumi; Okamoto, Kyoichi; Nakagawa, Taiichi; Morikane, Hiroyuki; Kounou, Tadami; Arima, Takemi; and Hasegawa, Akinori, 4,680,979, Cl. 74-7.00E.

Morishita, Akira; Okamoto, Kyoichi; Nakagawa, Taiichi; Morikane, Hiroyuki; Hasegawa, Akinori; Arima, Takemi; and Kounou, Tadami, 4,712,451, Cl. 74-801.000.

Kouns, Herbert H.; and Gardner, Loren D., to Abex Corporation. Servo control variable displacement pressure compensated pump. 4,715,788, 12-29-87, Cl. 417-218.000.

Kourtides, Demetrius A.: *See—*

Mikroyannidis, John A.; and Kourtides, Demetrius A., 4,670,565, Cl. 548-413.000.

Mikroyannidis, John A.; and Kourtides, Demetrius A., 4,675,379, Cl. 528-413.000.

Mikroyannidis, John A.; and Kourtides, Demetrius A., 4,689,421, Cl. 558-145.000.

Kouru, Heikki K. J.: *See—*

Rundt, Kenneth C. A.; Oikari, Timo E. T.; and Kouru, Heikki K. J., 4,652,751, Cl. 250-252.100.

Koury, Daniel N., Jr.; Berg, Howard M.; and Steverson, David W., to Motorola, Inc. Method for assembling an electro-optical device. 4,647,331, 3-3-87, Cl. 156-273.900.

Koury, Daniel N., Jr.; and Seelbach, Walter C., to Motorola, Inc. NPN transient driver circuit. 4,675,554, 6-23-87, Cl. 307-455.000.

Kousai, Tadashi: *See—*

Moriuchi, Yousuke; and Kousai, Tadashi, 4,699,617, Cl. 604-246.000.

Kousaka, Akira: *See—*

Takada, Kousuke; and Kousaka, Akira, 4,705,989, Cl. 315-39.510.

Kousaka, Kunimitsu; and Gotoh, Kunihiko, to Fujitsa Limited. Semiconductor integrated circuit having improved load drive characteristics. 4,697,154, 9-29-87, Cl. 330-277.000.

Kousek, Heinz, to Hilti Aktiengesellschaft. Motor driven hand-held device containing a displacement mass. 4,638,870, 1-27-87, Cl. 173-12.000.

Kousek, Heinz: *See—*

Vollmer, Helmut; Kousek, Heinz; and Maier, Elmar, 4,681,493, Cl. 411-8.000.

Koutake, Masayoshi: *See—*

Kobayashi, Shunsuke; Matsuyama, Yoshihiko; and Koutake, Masayoshi, 4,701,024, Cl. 350-331.00R.

Koutaro, Mizuno: *See—*

Teruo, Hiyoshi; Koutaro, Mizuno; and Shigeru, Yamada, 4,646,609, Cl. 84-1.010.

Koutek, Mary E.: *See—*

Young, Paul R.; Koutek, Mary E.; and Kelly, John A., 4,680,124, Cl. 210-697.000.

Koutsky, James A.: *See—*

Langer, Stanley H.; Saud, Abel; McDonald, George; and Koutsky, James A., 4,668,289, Cl. 75-118.00R.

Kouyama, Mikihiro; and Yagasaki, Akio, to Honda Giken Kogyo Kabushiki Kaisha. Main stand device for two-wheeled motorcycle. 4,671,374, 6-9-87, Cl. 180-219.000.

Kouyama, Mikihiro, to Honda Giken Kogyo Kabushiki Kaisha. Steering apparatus of vehicles. 4,685,694, 8-11-87, Cl. 280-270.000.

Kouyama, Toshitaka: *See—*

Katto, Takayuki; Tada, Masahito; Kouyama, Toshitaka; and Iizuka, Yo, 4,659,789, Cl. 525-537.000.

Kouyama, Toshitake; and Katsube, Ryoji, to NEC Corporation. Digital audio synchronizing system with cross-fade means. 4,644,400, 2-17-87, Cl. 358-149.000.

Kouyama, Toshitake, to NEC Corporation. Television signal synchronizing apparatus with sync phase control for video signal. 4,646,136, 2-24-87, Cl. 358-19.000.

Kouyama, Toshitake: *See—*

Nakajima, Takeshi; Kouyama, Toshitake; and Onosato, Masashi, 4,689,676, Cl. 358-149.000.

Kouzato, Yasuo, to Canon Kabushiki Kaisha. Tone recording method. 4,686,538, 8-11-87, Cl. 346-1.100.

Kouzi, Yamamoto: *See—*

Takao, Takeda; Hitoshi, Yamazaki; Shizuo, Nakano; Kouzi, Yamamoto; Hiroshi, Ito; and Jun, Imai, 4,645,972, Cl. 313-634.000.

Kovac, Andrew J. Amphibious vehicle. 4,691,657, 9-8-87, Cl. 114-61.000.

Kovac, Matthew. Radon gas detection apparatus and method. 4,700,070, 10-13-87, Cl. 250-304.000.

Kovacevich, Sam, Jr. Wine distribution method. 4,671,329, 6-9-87, Cl. 141-5.000.

Kovacic, Charles R.; and Noshay, David A., to Honeywell Inc. Pull station. 4,706,065, 11-10-87, Cl. 340-303.000.

Kovacs, Attila: *See—*

Nagy, Zoltan; Hupka, Gyorgy; Szalay, Otto ; and Kovacs, Attila, 4,681,531, Cl. 431-181.000.

Kovacs, Bela V.; and Nowicki, Roman M., to Ford Motor Company. Hardenable cast iron and the method of making cast iron. 4,666,533, 5-19-87, Cl. 148-2.000.

Kovacs, Daniel B.: *See—*

Lochow, Charles F.; and Kovacs, Daniel B., 4,664,780, Cl. 208-120.000.

Kovacs, Gabor: *See—*

Czvikovszky, Tibor; Kovacs, Gabor; Lakner, Endre; Mahr, Lajos; Somogyi, Agnes; Mikes, Sandor; Kegly, Gyorgy; Muzsai, Istvan; Palotas, Laszlo; and Pfisztner, Nandor, 4,706,711, Cl. 138-103.000.

Meszaros, Zoltan; Knoll, Jozsef; Hermecz, Istvan; Szentmiklosi, Peter; Horvath, Agnes; Vasvari nee Debreczy, Lelle; Kovacs, Gabor; Gyires, Klara; and Virag, Sandor, 4,666,912, Cl. 514-258.000.

Szekely, Istvan; Botar, Sandor; Dolgos nee Kekesi, Krisztina; Bertok, Bela; Gajary, Antal; Szabolcsi, Tamas; Kovacs, Gabor; and Lovasz nee Gaspar, Marianna, 4,638,002, Cl. 514-212.000.

Szuts, Tamas; Szentmiklosi, Peter; Lengyel, Jozsef; Hermecz, Istvan; Vasvari nee Debreczy, Lelle; Horvath, Agnes; Kereszturi, Geza; Kovacs, Gabor; Horvath, Gabor; and Marmarosi nee Kellner, Katalin, 4,670,440, Cl. 514-254.000.

Kovacs, George. Measuring instrument for angled material. 4,660,293, 4-28-87, Cl. 33-471.000.

Kovacs, Istvan: *See—*

Madi-Szabo, Laszlo; Morvai, Margit; Horvath nee Feher, Eva; Jansco, Sandor; Tamasi, Piroska; Kovacs, Istvan; Kiss nee Loss, Ilona Maria; Bacsa, Gyorgy; Kubala nee Papp, Maria; and Bene nee Horvath, Magdolna, 4,705,779, Cl. 514-27.000.

Kovacs, Jenoe: *See—*

Heil, Guenter; Lenz, Werner; and Kovacs, Jenoe, 4,666,783, Cl. 428-425.900.

Lehner, August; Heil, Guenter; Kovacs, Jenoe; Balz, Werner; and Lenz, Werner, 4,666,781, Cl. 428-425.900.

Kovacs, Joseph A.: *See—*

Allegra, Carmen; Drake, James C.; Chabner, Bruce A.; Masur, Henry; and Kovacs, Joseph A., 4,694,007, Cl. 514-260.000.

Kovacs, Julius S. Bend following plumbers snake. 4,692,957, 9-15-87, Cl. 15-104.3SN.

Kovacs, Lajos, Jr.: *See—*

Megyeri, Gabor; Keve, Tibor; Galambos, Janos; Kovacs, Lajos, Jr.; Stefko, Bela; Bogsch, Erik; and Trischler, Ferenc, 4,697,017, Cl. 544-346.000.

Kovacs, Lloyd, to Hayssen Manufacturing Company. Bag sealing bar. 4,693,058, 9-15-87, Cl. 53-552.000.

Kovacs, Lloyd; and Horsman, Dennis P., to Hayssen Manufacturing Company. Packaging method and apparatus. 4,703,608, 11-3-87, Cl. 53-410.000.

Kovacs nee Kalman, Magda: *See—*

Bordas, Barna; Gimesi, Antal; Kovacs nee Kalman, Magda; Janos, Eva; Matolcsy, Gyorgy; and Tuske, Marton, 4,695,309, Cl. 71-88.000.

Bordas, Barna; Gimesi, Antal; Kovacs nee Kalman, Magda; Janos, Eva; Matolcsy, Gyorgy; and Tuske, Marton, 4,695,313, Cl. 71-100.000.

Kovacs nee Palotai, Agnes: *See—*

Berenyi nee Poldermann, Edit; Varga, Laszlo; Pallos, Laszlo; Petocz, Lujza; Ladanyi, Laszlo; Tompe, Peter; Hartai nee Zsorzs, Eva; and Kovacs nee Palotai, Agnes, 4,652,562, Cl. 514-237.000.

Kovacs, Terri: *See—*

Hess, Stanley R.; and Kovacs, Terri, 4,660,571, Cl. 128-784.000.

Kovalchek, John G., to Fore-Sight Golf, Inc. Golf putter with sighting device. 4,712,797, 12-15-87, Cl. 273-163.00R.

Kovalerchik, Vulf P.: *See—*

Lyakhevich, Genrikh D.; Khimanych, Anatoly P.; Suzansky, Vasily G.; and Kovalerchik, Vulf P., 4,686,007, Cl. 201-3.000.

Kovaleski, John W.; and Lee, Thomas M. Universal tie-down bracket. 4,648,765, 3-10-87, Cl. 410-110.000.

Kovaleski, Stanley K., to United Technologies Corporation. Radial scoop construction. 4,648,485, 3-10-87, Cl. 184-13.100.

Kovalev, Sergei G.: *See—*

Bezuglov, Vladimir V.; Bergelson, Lev D.; Lakin, Kapiton M.; Makarov, Vladimir A.; Kovalev, Sergei G.; and Freimanis, Yanis F., 4,665,214, Cl. 560-121.000.

Kovar, Ingomar: *See—*

von Au, Gunther; Braunsperger, Karl; Huhn, Karl; and Kovar, Ingomar, 4,652,662, Cl. 549-215.000.

Kovar, Pavel: *See—*

Smidrkal, Jan; Simunek, Jaroslav; Tolman, Jiri; Soucek, Jiri; Novacek, Alois; Novak, Jan; Krob, Vaclav; Kovar, Pavel; Klofec, Miroslav; and Vondracek, Bohumir, 4,637,894, Cl. 252-186.400.

Kovar, Wayne A.: *See—*

Bishop, Thomas R.; Kovar, Wayne A.; and Roque, Clyde D., 4,706,745, Cl. 166-98.000.

Kovara, Joseph N.: *See—*

Ceccon, Claude R.; Kovara, Joseph N.; and Mioduski, Paul C., 4,660,141, Cl. 364-200.000.

Kovari, Kalman; and Koppel, Jakob, to Gesellschaft zur Forderung der industrieorientierten Forschung an den Schweizerischen Hochschulen und weiteren Institutionen. Method of, and measuring tube and measuring probe for, measuring fluid pressure in a sealed bore hole. 4,643,024, 2-17-87, Cl. 73-151.000.

Kovarik, Frank S., to Atlantic Richfield Company. Carbon dioxide miscible displacement process. 4,643,252, 2-17-87, Cl. 166-263.000.

Kovasna, Lars; and Hornberg, Gunnar, to Adema Maskin AB. Collapsible form and device for removing form from cast concrete. 4,666,388, 5-19-87, Cl. 425-62.000.

Kovatch, Stephen C., to Hess & Eisenhardt Armoring Company. Demountable windshield armor for vehicles. 4,643,477, 2-17-87, Cl. 296-84.00K.

Kovats, Laszlo L., deceased: *See—*

Mergenthaler, Barry M.; King, Ronald J.; Kovats, Laszlo L., deceased; Taylor, James H., administrator; and Cone, Richard E., 4,656,344, Cl. 235-462.000.

Kovats, Tibor F. I.: *See—*

Sinclair, William J.; Kovats, Tibor F. I.; and Straus, Jozef, 4,695,125, Cl. 350-96.200.

Koves, Thomas. Canvas carrier. 4,690,363, 9-1-87, Cl. 248-449.000.

Kovit, Sheldon L.; Tousek, Emil J.; and Douglas, Larry D., to Hughes Tool Company. Subsea well electrical coupling system. 4,707,041, 11-17-87, Cl. 439-131.000.

Kowa Company, Ltd.: *See—*

Aoki, Nobuo; and Kurosawa, Shinichiro, 4,638,050, Cl. 530-413.000.

Fujii, Setsuro; Yokoyama, Touru; Ikegaya, Kouji; Yokoo, Nobuo; and Nagakura, Masahiko, 4,639,435, Cl. 514-11.000.

Ichihashi, Tadashi; Kakizawa, Koichiro; and Kawamura, Masunori, 4,711,542, Cl. 351-221.000.

Shiratsuchi, Masami; Kawamura, Kiyoshi; Akashi, Toshihiro; Ishihama, Hiroshi; and Uchida, Yasumi, 4,678,803, Cl. 514-456.000.

Tano, Touru; Fujita, Akihiro; and Utsumi, Takayuki, 4,668,068, Cl. 354-403.000.

Tano, Touru; Fujita, Akihiro; and Utsumi, Takayuki, 4,692,012, Cl. 354-403.000.

Watanabe, Isamu; Kamiya, Kazuhiro; Torii, Takahiro; and Mori, Toshihito, 4,647,656, Cl. 536-16.100.

Kowah, Inc.: *See—*

Eastep, Calvin W., 4,713,525, Cl. 219-308.000.

Kowal, Leonard J.; Schwarz, Albert J.; and Wells, Norman B., to Clevite Industries Inc. Releasable push-to-connect tube fitting. 4,685,706, 8-11-87, Cl. 285-322.000.

Kowal, Steven J., to Stanadyne, Inc. Inverted bucket tappet with collapsing diaphragm seal. 4,694,790, 9-22-87, Cl. 123-90.580.

Kowal, Wieslaw M.: *See—*

Skinner, Geoffrey F.; Kowal, Wieslaw M.; and Linton, Stephen D., 4,636,334, Cl. 252-377.000.

Kowalchuk, William M., to Moore Business Forms, Inc. Hospital arm band. 4,682,431, 7-28-87, Cl. 40-21.00C.

Kowalczyk, James E., to Baker Perkins, Inc. Remotely transmitting batch mixer. 4,704,035, 11-3-87, Cl. 366-142.000.

Kowalczyk, Thaddeus. Security eyes for prevention of car accidents. 4,641,136, 2-3-87, Cl. 340-903.000.

Kowalczyk, Thaddeus. Air purifier-combination filter. 4,702,753, 10-27-87, Cl. 55-267.000.

Kowalewski, Janusz J.; Forest, Jerry W.; Christie, Alan E.; and Patrick, Paul H. Acoustic fish behavioral control device. 4,646,276, 2-24-87, Cl. 367-139.000.

Kowalewski, Ryszard J. Rapid self-inflating tracheal tube with constant pressure control feature. 4,649,914, 3-17-87, Cl. 128-207.150.

Kowalik, James J.: *See—*

Graham, Donald E.; Kowalik, James J.; and Kade, Alexander, 4,665,488, Cl. 364-424.000.

Kowalik, Ralph M.: *See—*

Duvdevani, Ilan; Lundberg, Robert D.; Kowalik, Ralph M.; and Peiffer, Dennis G., 4,656,204, Cl. 523-175.000.

Peiffer, Dennis G.; Kowalik, Ralph M.; and Lundberg, Robert D., 4,640,945, Cl. 523-336.000.

Kowalski, Carl R.: *See—*

Knutti, James W.; Allen, Henry V.; Petersen, Kurt E.; and Kowalski, Carl R., 4,680,606, Cl. 357-26.000.

Kowalski, Daniel C.; and Bloomberg, Dan S., to Xerox Corporation. Sampled optical focus error detecting system for rotating optical media. 4,652,737, 3-24-87, Cl. 250-201.000.

Kowalski, David J.: *See—*

Fong, Dodd W.; and Kowalski, David J., 4,656,277, Cl. 544-399.000.

Fong, Dodd W.; and Kowalski, David J., 4,678,840, Cl. 525-340.000.

Kowalski, Edward F.: *See—*

Malandra, Louis J.; Leduc, Robert J.; Hankinson, Michael F.; and Kowalski, Edward F., 4,678,623, Cl. 376-260.000.

Kowalski, Frank P.; and Scott, Gerald R., to Standex International Corporation. Patient treatment table. 4,648,389, 3-10-87, Cl. 128-70.000.

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- oyama, Kazuya: *See—*
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  - Kato, Yasuhiro; and Koyama, Mitsuhiro, 4,639,838, Cl. 362-33.000.
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  - Okamura, Kazuo; Kitamura, Ikuo; Aomi, Hideki; Koyama, Satoshi; and Tokunaga, Katsushi, 4,668,414, Cl. 252-62.510.
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  - Mitsuhashi, Masakazu; and Koyama, Shunsaku, 4,659,569, Cl. 424-89.000.
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  - Miyazaki, Tomohiro; Koyama, Tetsu; and Koike, Shinichi, 4,700,364, Cl. 375-62.000.
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  - Haga, Takahiro; Yamada, Nobutoshi; Sugi, Hideo; Koyanagi, Toru; and Okada, Hiroshi, 4,677,110, Cl. 514-274.000.
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  - Kitamura, Tomimasa, 4,711,315, Cl. 180-132.000.
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  - Toyooka, Katsuji; and Shigematsu, Hisashi, 4,648,027, Cl. 364-184.000.
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  - Daido, Toshihiko; Matsubara, Hideo; and Hirakushi, Shuzo, 4,640,380, Cl. 180-141.000.
  - Ijiri, Waichiro; and Hirakushi, Shuzo, 4,637,484, Cl. 180-142.000.
- Koyo Seiko Co., Ltd.: *See—*
  - Daido, Toshihiko, 4,690,733, Cl. 180-142.000.
  - Mitumaru, Mititoshi, 4,660,839, Cl. 277-153.000.
  - Takebayashi, Hiroaki; Harumi, Fujio; Nakamura, Kiyoshi; and Inoue, Koichi, 4,634,300, Cl. 384-548.000.
  - Yasui, Hiroyoshi; and Yoshida, Teruo, 4,655,617, Cl. 384-465.000.
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  - Takata, Yatsuka; Yamada, Tadamasa; and Kikuchi, Eiki, 4,642,219, Cl. 420-104.000.
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  - Bando, Toshiro; and Kozaiku, Kiyoto, 4,661,765, Cl. 323-241.000.
- Kozak, Burton. Upright converter for portable vacuum. 4,635,315, 1-13-87, Cl. 15-329.000.
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  - Czeller, Bela; Kozak, Janos; Kucsera, Gabor; Nadudvari, Jozsef; and Nagyistok, Ferenc, 4,647,375, Cl. 210-267.000.
- Kozak, Michael A., III, to San Diego Gas & Electric. Hydraulic swivel connector. 4,672,998, 6-16-87, Cl. 137-614.040.

- Kozak, Valentine J.: *See—*
  - Lemley, Thomas H.; Overdorf, Dennis G.; Ott, Kenneth A.; and Kozak, Valentine J., 4,671,465, Cl. 242-7.030.
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  - Takamiya, Kikuzo; Ishibashi, Hideyuki; and Kozakae, Kunitoshi, 4,697,469, Cl. 74-117.000.
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- Kozakai, Shohei: *See—*
  - Hida, Yoshinori; and Kozakai, Shohei, 4,683,320, Cl. 556-453.000.
  - Itoh, Kunio; Kozakai, Shohei; Hida, Yoshinori; Okinoshima, Hiroshige; Okada, Fumio; Oba, Toshio; Shimizu, Hisashi; Hinoto, Yuji; and Yoshioka, Hiroshi, 4,678,688, Cl. 427-387.000.
- Kozakiewicz, Bernie A.: *See—*
  - Wallace, Theodore C.; and Kozakiewicz, Bernie A., 4,647,509, Cl. 428-474.900.
- Kozakura, Nobuto: *See—*
  - Kitaori, Tadahiro; Haginoya, Tsutomu; and Kozakura, Nobuto, 4,711,676, Cl. 148-319.000.
- Kozarich, John W.; and Rhoads, Robert E., to Yale University. Purification of the messenger RNA cap-binding protein. 4,710,566, 12-1-87, Cl. 536-28.000.
- Kozasa, Susumu: *See—*
  - Taya, Shunroku; and Kozasa, Susumu, 4,634,931, Cl. 315-111.810.
- Kozawa, Fusaaki: *See—*
  - Jinriki, Tatenori; and Kozawa, Fusaaki, 4,696,202, Cl. 74-479.000.
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- Kozawa, Kunio: *See—*
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  - Kashiwame, Josho; Otsuka, Yoshihiro; and Kozawa, Shigeyuki, 4,654,410, Cl. 528-171.000.
- Kozawa, Tadashi: *See—*
  - Nomura, Yoshihisa; Suda, Koichi; and Kozawa, Tadashi, 4,694,734, Cl. 92-130.00R.
- Kozawa, Tetsuo: *See—*
  - Nomura, Etsuzo; Kozawa, Tetsuo; and Sakakibara, Yasuo, 4,676,179, Cl. 112-239.000.
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  - Nomura, Etuzo; Sakakibara, Yasuo; Kozawa, Tetsuo; Nishida, Yukio; and Kondo, Ikuzo, 4,712,497, Cl. 112-315.000.
  - Senda, Yutaka; Sato, Katsuhiko; Kozawa, Tetsuo; Nomura, Etsuzo; and Sakakibara, Yasuo, 4,706,584, Cl. 112-121.110.
- Kozawa, Yutaka: *See—*
  - Niwa, Kiyomi; and Kozawa, Yutaka, 4,711,293, Cl. 165-4.000.
- Kozbor, Danuta; and Croce, Carlo M., to Wistar Institute, The. Human hybridroma fusion partner for production of human monoclonal antibodies. 4,693,975, 9-15-87, Cl. 435-172.200.
- Koze, Jeffrey T., to American Telephone and Telegraph Company, AT&T Technologies, Inc. Back sealing of silicon wafers. 4,687,682, 8-18-87, Cl. 437-238.000.
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  - Malcosky, Norman D.; and Koziar, Gregory, 4,690,689, Cl. 48-174.000.
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- Kozima, Junpei: *See—*
  - Shiga, Akinobu; Kakugo, Masahiro; Kozima, Junpei; and Wakatsuki, Kizuku, 4,696,979, Cl. 525-247.000.
- Kozima, Kazuo: *See—*
  - Osada, Soichi; Inoue, Hirokatsu; Shimizu, Chuji; Onodera, Yasuaki; Kobayashi, Ken-ichi; Kozima, Kazuo; and Shioda, Shigeyoshi, 4,653,500, Cl. 128-639.000.
- Kozima, Yasuyuki: *See—*
  - Nakamura, Koozoo; Hamada, Nagaharu; Tadauchi, Masaharu; Kozima, Yasuyuki; Suemori, Noboru; and Kouno, Takamitu, 4,694,351, Cl. 358-256.000.
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  - Bozinovich, Matthew J., and Fontana, Robert M., 4,702,389, Cl. 220-306.000.
  - Kratochvil, John F., 4,684,533, Cl. 426-575.000.
  - Marshall, Wayne E.; and Hofmann, Constance J., 4,678,673, Cl. 426-46.000.
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- Kraft, Kenneth N.: *See—*
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- Kraft, Robert E.: *See—*
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  - Frauenfeld, Martin; and von Wedel, Rudiger, 4,651,811, Cl. 165-10.000.
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  - Assmann, Helmut; Dorr, Wolfgang; Maier, Georg; and Pechs, Martin, 4,655,978, Cl. 264-0.500.
  - Bauer, Rainer; and Kastl, Hans, 4,645,637, Cl. 376-249.000.
  - Bieber, Oswald; Haas, Erich; Henglein, Rudolf; and Richter, Bernd, 4,693,277, Cl. 138-89.000.
  - Cirkel, Hans-Jurgen; and Bette, Willi, 4,635,267, Cl. 372-38.000.
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  - Dettinger, Heinrich, 4,670,975, Cl. 29-726.000.
  - Dorr, Wolfgang; Gradel, Gerhard; and Pechs, Martin, 4,671,904, Cl. 264-0.500.
  - Forner, Siegfried; Katscher, Erich; and Ring, Stefan, 4,639,351, Cl. 376-310.000.
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  - Frewer, Hans; Muller, Rainer; and Schiffers, Ulrich, 4,669,270, Cl. 60-648.000.
  - Fromel, Gustav; and Steinke, Alexander, 4,683,115, Cl. 376-439.000.
  - Ganzer, Winfried, 4,706,742, Cl. 165-119.000.
  - Goebel, Konrad; and Becker, Bernard, 4,651,519, Cl. 60-39.120.
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  - Gugel, Georg; and Haas, Erich, 4,672,852, Cl. 73-622.000.
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  - Kanczarek, Thaddaeus-Anton, 4,690,438, Cl. 285-363.000.
  - Kiewitz, Hans-Christoph; Dietsch, Armin; and Tennie, Manfred, 4,664,872, Cl. 376-260.000.
  - Knecht, Klaus; and Kraus, Kurt, 4,697,322, Cl. 29-402.030.
  - Kratz, Gerhard; Meininger, Siegfried; Fischer, Eckhard; and Bege, Dietmar, 4,636,363, Cl. 422-159.000.
  - Kroning, Michael; Holzler, Georg; and Heumuller, Roland, 4,640,131, Cl. 73-600.000.
  - Kunz, Rainer; Stauner, Jakob; and Weber, Robert, 4,684,492, Cl. 376-203.000.
  - Leuker, Wilhelm; Stipsits, Gunter; and Thiel, Bernhard, 4,640,121, Cl. 73-40.50A.
  - Maghon, Helmut, 4,669,165, Cl. 29-159.200.
  - Maghon, Helmut; and Becker, Bernard, 4,701,124, Cl. 431-284.000.
  - Mechtold, Helmut; and Weber, Robert, 4,667,500, Cl. 72-393.000.
  - Meininger, Siegfried, 4,708,641, Cl. 432-72.000.
  - Meyer-Pittroff, Roland, 4,662,902, Cl. 55-122.000.
  - Operschall, Hermann; Steiner, Klaus-Alfred; and Voggenthaler, Ludwig, 4,634,511, Cl. 204-212.000.
  - Purcaru, Bebe-Titu, 4,695,228, Cl. 416-223.00A.
  - Queiser, Horst; Meininger, Siegfried; and Kleinschroth, Karl-Heinz, 4,655,968, Cl. 252-632.000.
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  - Ruthrof, Klaus; Korner, Rudolf; and Dorner, Jurgen, 4,642,417, Cl. 174-36.000.
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  - Schiffers, Ulrich; and Muller, Rainer, 4,663,931, Cl. 60-39.070.
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  - Steinke, Alexander, 4,666,663, Cl. 376-441.000.
  - Steven, Josef; and Hassfurther, Karl, 4,705,663, Cl. 376-442.000.
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Krajancich, James D. Internal combustion engines. 4,674,450, 6-23-87, Cl. 123-79.00A.

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Todaro, Frank A.; Castonguay, Roger N.; Krajewski, Alexander A.; and Morris, Robert A., 4,679,019, Cl. 335-172.000.

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Krakauer, Edwin G., to Leggett & Platt, Incorporated. Spring element. 4,699,362, 10-13-87, Cl. 267-91.000.

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Kralik, Douglas R., to Figgie International Inc. Inflatable padded game ball. 4,660,831, 4-28-87, Cl. 273-65.00E.

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Jablonski, Daniel G.; and Krall, Albert D., 4,665,660, Cl. 51-281.00R.

Krall, Robert E., to CRX Medical, Inc. Radiopaque cyanoacrylates. 4,713,235, 12-15-87, Cl. 424-5.000.

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Plenzler, John A.; Krall, Thomas J.; and Nowicki, Casimir W., 4,679,997, Cl. 425-126.00R.

Krallmann, Reinhold: *See—*

Thomas, Michael; Neumann, Peter; Wegerle, Dieter; and Krallmann, Reinhold, 4,707,161, Cl. 8-442.000.

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Burns, Hugh D.; Zemyan, Susan E.; Epps, Leon A.; Kramer, Alfred V.; and Dannals, Robert F., 4,638,051, Cl. 534-14.000.

Kramer, Arthur W.: *See—*

Wilhelm, John J.; Calhoun, Gregory L.; Dawson, Paul H.; and Kramer, Arthur W., 4,637,588, Cl. 251-280.000.

Kramer, Brian D.: *See—*

Clayton, Anthony B.; and Kramer, Brian D., 4,675,210, Cl. 427-208.200.

Kramer, Carl: *See—*

Grundmann, Reinhard; and Kramer, Carl, 4,671,054, Cl. 57-304.000.

Kramer, Carolyn M., to Braun Aktiengesellschaft. Sole plate coating for a fabric pressing device. 4,665,637, 5-19-87, Cl. 38-93.000.

Kramer, Carolyn M., to Braun Aktiengesellschaft. Fabric pressing device. 4,702,933, 10-27-87, Cl. 427-34.000.

Kramer, Charles J.: *See—*

Yip, Kwok-leung; Araghi, Mehdi N.; Daniele, Joseph J.; Banton, Martin E.; Kramer, Charles J.; and Ritter, Joachim A., 4,639,073, Cl. 350-6.800.

Kramer, Clark: *See—*

Kramer, Sharon D.; Kramer, John; Kramer, Donald; and Kramer, Clark, 4,683,886, Cl. 128-376.000.

Kramer, Sharon D.; Kramer, John; Kramer, Donald; and Kramer, Clark, 4,683,887, Cl. 128-376.000.

Kramer, Sharon D.; Kramer, John; Kramer, Donald; and Kramer, Clark, 4,683,888, Cl. 128-376.000.

Kramer, Dale C.: *See—*

Warrington, John E.; and Kramer, Dale C., 4,685,640, Cl. 244-29.000.

Kramer, Daniel E.: *See—*

Giberson, Wayne F.; Estep, Glenn T.; and Kramer, Daniel E., 4,658,602, Cl. 62-515.000.

Kramer, Daniel P.: *See—*

Kelly, Michael D.; and Kramer, Daniel P., 4,705,585, Cl. 156-89.000.

Kramer, David M.; Yeung, Hong-Ning; and Compton, Russell A., to Technicare Corporation. Multiplexed magnetic resonance imaging of volumetric regions. 4,665,367, 5-12-87, Cl. 324-309.000.

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Kramer, David M.: *See—*

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Arbic, Harold J.; Love, Philip F.; and Kramer, Donald, 4,676,536, Cl. 292-339.000.

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Kramer, Felix, to Elpatronic AG. Tear-open can member. 4,700,865, 10-20-87, Cl. 220-274.000.

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Kramer, Felix, to Elpatronic AG. Welding machine for welding tongues onto sheet-metal members. 4,714,814, 12-22-87, Cl. 219-79.000.

Kramer, Francis A.: *See—*

Connors, Herman J., Jr.; and Kramer, Francis A., 4,705,071, Cl. 137-625.300.

Kramer, Francis J., to Senco Products, Inc. Electronic control for a pneumatic fastener driving tool. 4,679,719, 7-14-87, Cl. 227-5.000.

Kramer & Grebe GmbH & Co. KG: *See—*

Vomhof, Paul; Schmidt, Karlheinz; and Oster, Peter, 4,696,434, Cl. 241-282.200.

Kramer, Gunter: *See—*

Hiller, Rolf; Vollmer, Heinrich; Beckschafer, Klaus; Glodde, Reimund; and Kramer, Gunter, 4,652,469, Cl. 427-291.000.

Kramer, Henry: *See—*

Ballmer, Horst; and Kramer, Henry, 4,651,301, Cl. 364-900.000.

Kramer, Henry P. Method and apparatus for coding pictorial information for efficient storage, transmission and reproduction. 4,649,435, 3-10-87, Cl. 358-260.000.

Kramer, Hermann: *See—*

Harder, Hans E.; and Kramer, Hermann, 4,712,541, Cl. 128-92.0YY.

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Kramer, James H., to B. F. Goodrich Company, The. Method for fabricating an elastomeric bearing assembly. 4,663,810, 5-12-87, Cl. 29-149.50S.

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Kramer, John F., deceased; by Van Oosting, Barbara B., executrix; and by Wessberg, Karen S., executrix. Outdoor lighting pedestal. 4,716,508, 12-29-87, Cl. 362-431.000.

Kramer, Josef; Irmscher, Klaus; Prucher, Helmut; and Hesch, Rolf-Dieter, to Merck Patent Gesellschaft mit beschrankter Haftung. Flavanone intermediates for halogenohydroxyflavones. 4,713,465, 12-15-87, Cl. 549-403.000.

Kramer, Joseph. Electric lawn mower with self coiling power cord. 4,667,460, 5-26-87, Cl. 56-17.500.

Kramer, Justin, and Peterson, Richard H. Electrical actuator for percussion instruments. 4,677,892, 7-7-87, Cl. 84-405.000.

Kramer, Kane N.; and Campbell, James S. Portable data processing and storage system. 4,667,088, 5-19-87, Cl. 235-380.000.

Kramer, Karl C.: *See*—
Meinhold, James F.; Musto, Joseph A.; Kramer, Karl C.; and Gottesman, Martin, deceased, 4,659,577, Cl. 426-387.000.

Kramer, Kenneth D.; and Olson, Rohn L., to Deere & Company. Low leakage orifice-controlled poppet valve. 4,679,765, 7-14-87, Cl. 251-38.000.

Kramer, Kenneth E.: *See*—
Dreikorn, Barry A.; and Kramer, Kenneth E., 4,670,596, Cl. 564-433.000.

Kramer, Manfred: *See*—
Hafele, Walter; Kramer, Manfred; Schmieder, Dietmar; and Warga, Johann, 4,640,255, Cl. 123-495.000.
Kaltenthaler, Wolfgang; Kramer, Manfred; and Gelse, Heinz-Dieter, 4,685,653, Cl. 251-63.600.

Kramer, Melvin G.; and Iden, Marlin D., to Brunton Company, The. Compass. 4,700,490, 10-20-87, Cl. 33-355.00D.

Kramer, Monta L. Frame for tensioning and supporting textiles for needlework. 4,658,522, 4-21-87, Cl. 38-102.910.

Kramer, Nathan R., to Hughes Aircraft Company. Continuous in situ fiberization substrate material mechanism. 4,642,038, 2-10-87, Cl. 425-93.000.

Kramer, Paul, to Klockner-Humboldt-Deutz Aktiengesellschaft. Method and apparatus for controlling the differential speed between the centrifuge drum and the screw conveyor of a worm centrifuge. 4,668,213, 5-26-87, Cl. 494-8.000.

Kramer, Peter B., to Ortho Diagnostic Systems Inc. Fluorescence polarization immunoassay for heavy antigens. 4,681,859, 7-21-87, Cl. 436-501.000.

Kramer, Peter B., and Hansen, W. Peter, to Ortho Diagnostic Systems Inc. Methods for attaching ligands or anti-ligands to a solid phase. 4,689,310, 8-25-87, Cl. 436-512.000.

Kramer, Peter G. Lung trainer. 4,634,117, 1-6-87, Cl. 272-99.000.

Kramer, Richard: *See*—
Muck, Jurgen; Fischer, Hans; and Kramer, Richard, 4,642,886, Cl. 29-598.000.

Kramer, Richard E., to Fairchild Industries, Inc. High strength multi-component extendible structure. 4,651,480, 3-24-87, Cl. 52-108.000.

Kramer, Robert A.; Rusk, Terrance P.; and Salmons, David W., to Northern Indiana Public Service Company. Method and apparatus for accurately measuring volume of gas flowing as a result of differential pressure. 4,646,940, 3-3-87, Cl. 222-1.000.

Kramer, Roman A.: *See*—
Hand, George E.; and Kramer, Roman A., 4,635,563, Cl. 108-111.000.
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Kramer, S. Bertram; and Sampatacos, Evan P., to McDonnell Douglas Helicopter Company. Roll turret for a gun mount. 4,715,263, 12-29-87, Cl. 89-37.210.

Kramer, Sharon D.; Kramer, John; Kramer, Donald; and Kramer, Clark. Counterbalance system for the top of a tanning bed. 4,683,886, 8-4-87, Cl. 128-376.000.

Kramer, Sharon D.; Kramer, John; Kramer, Donald; and Kramer, Clark. Air circulation system for a tanning system. 4,683,887, 8-4-87, Cl. 128-376.000.

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Kramer, Steven G.; and Yavitz, Edward Q., to University of California, The Regents of the. Ophthalmologic surgical instrument. 4,688,570, 8-25-87, Cl. 128-305.000.

Kramer, Thomas J.: *See*—
Kapoor, Anoop; Choby, Edward J.; Kramer, Thomas J.; Ranieri, James E.; Roth, Charles H., Jr.; Scheffer, Donald E.; Spehar, John E., Jr.; Bessko, Csaba; and Blumstein, Robert M., 4,715,111, Cl. 29-723.000.

Kramer Trenton Co.: *See*—
Giberson, Wayne F.; Estep, Glenn T.; and Kramer, Daniel E. (said Giberson and Estep assors. to), 4,658,602, Cl. 62-515.000.

Kramer, Walter: *See*—
Grabowski, Robert; and Kramer, Walter, 4,692,106, Cl. 425-66.000.

Kramer-Wasserka, Thomas, to Institut CERAC S.A. High pressure water valve. 4,660,891, 4-28-87, Cl. 299-81.000.

Kramer, Wilfried, to Heinrich H. Klussendorf GmbH & Co. KG. Apparatus for conveying and printing postal items. 4,655,131, 4-7-87, Cl. 101-236.000.

Kramer, Willi: *See*—
Welp, Ullrich; Kramer, Willi; Girke, Michael; and Lack, Bernd, 4,634,269, Cl. 355-100.000.

Kramer, William M., to RCA Corporation. Imaging device having two anti-reflection layers on a surface of silicon wafer. 4,689,873, 9-1-87, Cl. 437-2.000.

Kramer, Wolfgang; Buchel, Karl H.; Holmwood, Graham; Regel, Erik; Reinecke, Paul; and Brandes, Wilhelm, to Bayer Aktiengesellschaft. Heterocyclo-hydroxyalkyl-azolyl derivatives and use as fungicides. 4,639,462, 1-27-87, Cl. 514-383.000.

Kramer, Wolfgang; Reiser, Wolf; Berg, Dieter; Brandes, Wilhelm; and Reinecke, Paul, to Bayer Aktiengesellschaft. Pest-combating agents. 4,668,700, 5-26-87, Cl. 514-467.000.

Kramer, Wolfgang; Buchel, Karl H.; Frohberger, Paul-Ernst; Brandes, Wilhelm; and Lurssen, Klaus, to Bayer Aktiengesellschaft. Substituted triazolylmethyl tert.-butyl ketone compounds and plant protection agents. 4,711,657, 12-8-87, Cl. 71-92.000.

Kramer, Wolfgang; Weissmuller, Joachim; Reiser, Wolf; Berg, Dieter; Brandes, Wilhelm; and Reinecke, Paul, to Bayer Aktiengesellschaft. Fungicidal agents. 4,713,379, 12-15-87, Cl. 514-212.000.

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Fischer, Artur; and Kramer, Wolfgang, 4,711,232, Cl. 128-92.0YF.
Hans, Waldemar; Kind, Wilhelm; Knapp, Heinrich; Kramer, Wolfgang; and Sauer, Rudolf, 4,700,891, Cl. 239-132.500.
Holmwood, Graham; Kramer, Wolfgang; Buchel, Karl H.; Reinecke, Paul; and Brandes, Wilhelm, 4,645,767, Cl. 514-383.000.
Jelich, Klaus; Kramer, Wolfgang; Brandes, Wilhelm; Hanssler, Gerd; and Reinecke, Paul, 4,666,933, Cl. 514-404.000.

Kraml, Michael: *See*—
Bellini, Francesco; Sestanj, Kazimir; and Kraml, Michael, 4,672,058, Cl. 514-62.000.

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Jaritz, Erich; and Krammer, Gunter, 4,686,877, Cl. 83-177.000.

Krammer, Johann: *See*—
Pieh, Stefan; and Krammer, Johann, 4,707,508, Cl. 524-106.000.

Kramp, Jurgen; Schramm, Peter; Augsberg, Gerhard; and Steiner, Gerd, to M.A.N.-Roland Druckmaschinen Aktiengesellschaft. Inking unit pre-adjustment method. 4,660,470, 4-28-87, Cl. 101-426.000.

Kramp, Peter: *See*—
Haubennestel, Karlheinz; and Kramp, Peter, 4,647,647, Cl. 528-83.000.

Krampe, Franz. Cable end stripping device. 4,667,406, 5-26-87, Cl. 30-91.200.

Krampe, Stephen E.; Moore, Cheryl L.; and Taylor, Charles W., to Minnesota Mining and Manufacturing Company. Macromer reinforced pressure sensitive skin adhesive. 4,693,776, 9-15-87, Cl. 156-327.000.

Krampitz, Dieter: *See*—
Hase, Christian; Wegemund, Bernd; Erwied, Werner; and Krampitz, Dieter, 4,668,711, Cl. 524-207.000.

Kranbuehl, David E. Method of using a dielectric probe to monitor the characteristics of a medium. 4,710,550, 12-1-87, Cl. 526-60.000.

Krane, Leonard. Apparatus and method for learning about the relationships and personalities of a group of two or more persons. 4,682,956, 7-28-87, Cl. 434-237.000.

Kranich, Neil J., II, to ASEA Electric, Inc. Linear transformer switch. 4,644,112, 2-17-87, Cl. 200-16.00F.

Kranitzky, Walter, to Dr. Johannes Heidenhain GmbH. Electrical circuit for a microprocessor graphic system. 4,653,108, 3-24-87, Cl. 382-25.000.

Krankenhagen, Jochen: *See*—
Castagna, Wolfgang; Krankenhagen, Jochen; Ortwein, Heinz; and Weertz, Klaus, 4,690,081, Cl. 112-276.000.

Krankkala, Paul L., to H. B. Fuller Company. Fast setting starch-based corrugating adhesive having partially hydrolized water soluble polyvinyl alcohol component. 4,673,698, 6-16-87, Cl. 524-47.000.

Krankkala, Paul L., to H. B. Fuller Company. Fast setting starch-based corrugating adhesive having partially hydrolized water soluble polyvinyl alcohol component. 4,677,145, 6-30-87, Cl. 524-48.000.

Krans, Keith A. Sailboat keel. 4,644,889, 2-24-87, Cl. 114-40.000.

Krans, Peter; and Meuleman, Hermanus J., to Remeha Fabrieken B.V. Heating boiler having a vertical burner tube. 4,679,528, 7-14-87, Cl. 122-367.00C.

Kransco Manufacturing, Inc.: *See*—
Harris, Timothy S.; and Harrod, Lawrence R., 4,639,646, Cl. 318-139.000.
Harrod, Lawrence R., 4,709,958, Cl. 296-177.000.
Schneider, Stephen E.; Geller, Douglas A.; and Morrison, Richard E., 4,662,852, Cl. 441-132.000.

Krantz, Alexander; Spencer, Robin; and Tam, Tim, to Syntex (U.S.A.) Inc. 4H-3,1-benzoxazin-4-ones and related compounds and use as enzyme inhibitors. 4,657,893, 4-14-87, Cl. 514-18.000.

Krantz, Alexander; and Castelhano, Arlindo L., to Syntex (U.S.A.) Inc. α-allenic-α-amino acids as enzyme inhibitors. 4,661,310, 4-28-87, Cl. 514-400.000.

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Krantz, Alexander; Castelhano, Arlindo L.; and Pliura, Diana H., to Syntex (U.S.A.) Inc. γ-allenyl-γ-aminobutyric acids. 4,668,703, 5-26-87, Cl. 514-549.000.

Krantz, Anders, to Industriell Arbetshygien i Soderhamn AB. Filter, especially air filter. 4,655,805, 4-7-87, Cl. 55-298.000.

Krantz, Herman F. Leak detection and refrigerant purging system. 4,711,096, 12-8-87, Cl. 62-129.000.

Krantz, Leonard A., Jr.: *See—*
- Gliha, Edward R.; and Krantz, Leonard A., Jr., 4,707,048, Cl. 439-620.000.
- Mikolaicyk, John H.; and Krantz, Leonard A., Jr., 4,639,076, Cl. 350-96.200.

Kranvogel, Feliks: *See—*
- Huttenrauch, Gerd; Jann, Wolfgang; and Kranvogel, Feliks, 4,672,652, Cl. 378-152.000.

Kranz, Curt: *See—*
- Anapliotis, Emmanuel; and Kranz, Curt, 4,676,797, Cl. 623-18.000.

Kranz, Joachim, to BASF Aktiengesellschaft. Preparation of polyhalo-copper phthalocyanines having a high color strength. 4,680,387, 7-14-87, Cl. 540-136.000.

Kranz, Walter, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Controllable flow deflection system. 4,646,991, 3-3-87, Cl. 244-3.220.

Kranz, Walter, to Messerschmitt-Bolkow Blohm GmbH. Apparatus for stabilizing a flying body. 4,674,707, 6-23-87, Cl. 244-3.220.

Kranz, Walter, to Messerschmitt-Bolkow-Blohm GmbH. Apparatus for correcting the flight path of a missile. 4,681,283, 7-21-87, Cl. 244-3.220.

Kranz, Walter, to Messerschmitt-Bolkow-Blohm GmbH. Brake and release apparatus for a rotary nozzle body. 4,691,876, 9-8-87, Cl. 244-3.220.

Kranz, William J., to Consolidated Solar Industries Corp. Circumbendibus safety system for a vehicle. 4,633,967, 1-6-87, Cl. 180-274.000.

Kranzle, Josef; Droitsch, Lutz; and Bauer, Manfred. Axial plunger pump. 4,636,146, 1-13-87, Cl. 417-270.000.

Kranzle, Josef. Holding and control arrangement for spraying devices on high-pressure washing equipment. 4,651,929, 3-24-87, Cl. 239-288.000.

Kranzler, Ernst, to Robert Bosch GmbH. Hand-held tool with an electric motor and wearing shells for supporting the same. 4,638,196, 1-20-87, Cl. 310-50.000.

Kranzler, Ernst, to Robert Bosch GmbH. Electric motor template-wound coil. 4,649,308, 3-10-87, Cl. 310-214.000.

Krapcho, John, to E. R. Squibb & Sons, Inc. Acylmercaptoalkanoyl and mercaptoalkanoyl spiro compounds. 4,709,046, 11-24-87, Cl. 548-409.000.

Krapf, Charles W.: *See—*
- Harrington, Richard H.; and Krapf, Charles W., 4,712,627, Cl. 177-50.000.

Krapf, Wallace A. Pivotally mounted scheduling boards. 4,684,099, 8-4-87, Cl. 248-447.100.

Krappen, Wolfgang: *See—*
- Hurtz, Georg; Steufmehl, Willi; and Krappen, Wolfgang, 4,696,600, Cl. 405-138.000.

Kraschnewski, Melvin W.: *See—*
- Mork, Phillip W.; Kraschnewski, Melvin W.; and Gilmore, Carl D., 4,702,524, Cl. 299-64.000.

Krase, Horst: *See—*
- Drawert, Manfred; and Krase, Horst, 4,655,836, Cl. 106-26.000.
- Drawert, Manfred; and Krase, Horst, 4,668,765, Cl. 528-336.000.
- Drawert, Manfred; Krase, Horst; and Skoda, Hans D., 4,698,396, Cl. 525-420.500.

Krasicki, Eugene T., to Westinghouse Electric Corp. Method and apparatus for detecting a braze melt. 4,659,896, 4-21-87, Cl. 219-85.0BM.

Krasij, Myron: *See—*
- Swarr, Thomas E.; Nickols, Richard C.; and Krasij, Myron, 4,652,411, Cl. 264-43.000.

Krasik, Michael H. Spring switch for electronic circuits. 4,707,575, 11-17-87, Cl. 200-52.00R.

Kraska, Robert E.; Wilary, Frank J.; and Lessar, Joseph F., to Medtronic, Inc. Hermetic electrical feedthrough assembly. 4,678,868, 7-7-87, Cl. 174-152.0GM.

Kraske, Dietmar: *See—*
- Edinger, Egon; Koetter, Joachim; Kraske, Dietmar; Krumrey, Klaus; Mayser, Joerg; and Michael, Ulrich, 4,667,403, Cl. 29-840.000.

Krasko, Zeya K.: *See—*
- Keeffe, William M.; Gungle, W. Calvin; Rothwell, Harold L., Jr.; and Krasko, Zeya K., 4,636,687, Cl. 313-620.000.
- Keeffe, William M.; and Krasko, Zeya K., 4,709,184, Cl. 313-638.000.

Krasner, Jerome L.; and DiBenedetto, John P. Medical apparatus having inflatable cuffs and a middle expandable section. 4,676,228, 6-30-87, Cl. 128-4.000.

Krasner, Paul R. Method and apparatus for preserving and reimplanting a tooth. 4,689,014, 8-25-87, Cl. 433-215.000.

Krasnicki, Edward J.; Hannibal, Alan J.; and Pherson, Thomas R., to Welch Allyn, Inc. Biopsy channel for an endoscope. 4,676,229, 6-30-87, Cl. 128-4.000.

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- Arutjunian, Norair S.; Kornena, Elena P.; Kazarian, Robert V.; Ponomareva, Natalya A.; Redko, Grigory V.; Sakhno, Lidia T.; and Zhidkova, Irina S., 4,713,155, Cl. 204-155.000.

Krasnoff, Eugene L., to Ingersoll-Rand Company. Liquid/abrasive jet cutting apparatus. 4,707,952, 11-24-87, Cl. 51-410.000.

Krasnov, Igor: *See—*
- Goris, Gregg A.; and Krasnov, Igor, 4,658,915, Cl. 175-57.000.
- Kucher, Alexander; Krasnov, Igor; and Bromberg, Yury, 4,640,384, Cl. 182-51.000.

Krasnov, Vladimir A.: *See—*
- Savinykh, Vitaly V.; Tilles, Robert S.; Yakhontov, Jury A.; and Krasnov, Vladimir A., 4,650,065, Cl. 198-828.000.

Krasnow, S. Bert: *See—*
- Baker, Thomas E.; Krasnow, S. Bert; and Silverman, Richard A., 4,658,332, Cl. 361-398.000.

Krasovskaya, Svetlana M.: *See—*
- Dzemeshkevich, Sergei L.; Zavalishin, Nikolai N.; Krasovskaya, Svetlana M.; Segalevich, Valery M.; Konstantinov, Boris A.; Nenjukov, Alexandr K.; and Ivanov, Alexei S., 4,692,164, Cl. 623-2.000.

Krass, Dennis K., to PPG Industries, Inc. Defoliant method. 4,634,464, 1-6-87, Cl. 71-70.000.

Krass, Dennis K., to PPG Industries, Inc. Herbicidally active substituted diphenyl ether oxime derivatives. 4,657,580, 4-14-87, Cl. 71-98.000.

Krasselt, Manfred M.: *See—*
- Apontoweil, Peter; and Krasselt, Manfred M., 4,645,665, Cl. 424-89.000.
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Krasser, Fritz, to Ellenberger & Poensgen GmbH. Overload protective switch with single push button for turn-on and turn-off. 4,704,594, 11-3-87, Cl. 337-66.000.

Krasser, Wolfgang: *See—*
- Woike, Theo; Krasser, Wolfgang; and Haussuhl, Siegfried, 4,713,795, Cl. 365-119.000.

Krasso, Anna: *See—*
- Fischli, Albert; Krasso, Anna; Ramuz, Henri; and Szente, Andre, 4,634,710, Cl. 514-338.000.

Krasuk, Julio: *See—*
- Rahbe, Georgette; Marzin, Roger; Cavicchioli, Ivan; and Krasuk, Julio, 4,655,903, Cl. 208-96.000.
- Rahbe, Georgette; Marzin, Roger; Cavicchioli, Ivan; Krasuk, Julio; and Solari, Rodolfo B., 4,676,886, Cl. 208-50.000.

Kratel, Gunter; Stohr, Gunter; and Schreiner, Franz, to Wacker-Chemie GmbH. Shaped microporous thermal insulation body with sheathing and process for making same. 4,636,416, 1-13-87, Cl. 428-69.000.

Kratirov, Valery B.: *See—*
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Pongratz, Leonhard; Degener, Ulrich; Spoetzl, Markus; and Kotai, Ferenc, 4,674,396, Cl. 89-47.000.

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Kising, Jurgen; and Bergerhausen, Stephan, 4,646,571, Cl. 73-573.000.

Renzel, Peter, 4,655,084, Cl. 73-611.000.

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Krautz, Alfons O.: *See—*

Richter, Georg-Gerd; and Krautz, Alfons O., 4,672,782, Cl. 52-218.000.

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Duurland, Jozef M.; Bos, Sinnighe J.; and Kreeft, Hendrik K., 4,681,280, Cl. 242-199.000.

Kreeger, Elsmer W., to Pinckney Molded Plastics, Inc. Sidewall assembly for tote box. 4,635,562, 1-13-87, Cl. 108-55.100.

Kreeger, Elsmer W., to Pinckney Molded Plastics, Inc. Reel storage container. 4,687,100, 8-18-87, Cl. 206-403.000.

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reh, Robert P., to W. R. Grace & Co. Oxidation of organic compounds using a catalyzed cerium (IV) composition. 4,701,245, 10-20-87, Cl. 204-78.000.

Kreh, Robert P.: *See—*

Spotnitz, Robert M., and Kreh, Robert P., 4,692,227, Cl. 204-78.000.

Krehan, Peter; and Oppelt, Werner, to General Motors Corporation. Resilient mount for telescopic struts. 4,673,192, 6-16-87, Cl. 280-668.000.

Krehely, Richard M.: *See—*

Lenoble, Bert I.; and Krehely, Richard M., 4,674,702, Cl. 242-195.000.

Kreher, Klaus: *See—*

Wermuth, Stefan; Hauke, Gunter; and Kreher, Klaus, 4,710,289, Cl. 210-198.200.

Krehl, Hermann: *See—*

Ebert, Charles; Krehl, Hermann; Viertel, Lothar; Hilbert, Bernard; and Walter, Rudiger, 4,707,019, Cl. 296-97.00K.

Schmid, Rene; and Krehl, Hermann, 4,637,565, Cl. 242-55.100.

Krehm, Herman S.; Leidner, Jacob; and Rode, Malcolm E., to Krehm, Herman S. Method of making fur bearing strands. 4,660,363, 4-28-87, Cl. 57-31.000.

Kreider, David R.; McCullum, Albert; Rose, Philip M.; and Lin, Chi-Hung, to Standard Oil Company (Indiana). Method and apparatus for recycle of entrained solids in off-gas from a gas-phase polyolefin reactor. 4,640,963, 2-3-87, Cl. 526-67.000.

Kreidl, Janos; Turcsanyi, Peter; Aracs, Zsuzsanna; Stefko, Bela; Meszaros, Judit; Deutsch, Ida; Szilbereky, Jeno; Csizer, Eva; Vezer, Szilard; Bogsch, Erik; Bakos, Jozsef; Szotyori, Laszlo; and Heil, Balint, to Richter Gedeon Vegyeszeti Gyar Rt. Nitrodiaryl sulfoxide derivatives, process for their preparation and pharmaceutical and pesticidal compositions containing them as active ingredient. 4,710,323, 12-1-87, Cl. 260-543.00R.

Kreijger, Pieter J.: *See—*

Buhrmann, Gerardus P.; and Kreijger, Pieter J., 4,643,403, Cl. 266-225.000.

Kreikebaum, Gerhard: *See—*

Desai, Avinash J.; and Kreikebaum, Gerhard, 4,657,572, Cl. 65-1.000.

Kreimes, Norbert: *See—*

Pfefferkorn, Dietmar; Nerschbach, Gerhard; Koester, Eberhard; Kreimes, Norbert; and Pavelka, Bozidar, 4,656,548, Cl. 360-132.000.

Krein, Philip T.; Meadows, Robert D.; Murdock, Bruce; and Teichmer, Daniel G., to Tektronix, Inc. Touch panel system. 4,698,460, 10-6-87, Cl. 178-19.000.

Krein, Philip T.; Meadows, Robert D.; Murdock, Bruce; and Teichmer, Daniel G., to Tektronix, Inc. Touch panel with automatic nulling. 4,707,845, 11-17-87, Cl. 178-19.000.

Krein, Philip T.: *See—*

Meadows, Robert D.; Krein, Philip T.; and Murdock, Bruce, 4,698,461, Cl. 178-19.000.

Krein, Reuben. Free standing, waterproof lining for truck industry. 4,671,733, 6-9-87, Cl. 414-786.000.

Kreiseder, Walter J., to Courtesy Mold & Tool Corporation. Closure with side cut tamper evident feature. 4,696,410, 9-29-87, Cl. 220-267.000.

Kreiseder, Walter J., to Courtesy Mold & Tool Corporation. Closure with top cut tamper evident feature. 4,706,835, 11-17-87, Cl. 220-258.000.

Kreiseder, Walter J., to Courtesy Mold & Tool Corporation. Closare with top cut tamper evident feature for wide mouth container. 4,709,830, 12-1-87, Cl. 220-258.000.

Kreiskorte, Ing. H., to Thyssen Industrie AG. Surface testing apparatus. 4,682,498, 7-28-87, Cl. 73-618.000.

Kreisner, William. Random lottery computer. 4,665,502, 5-12-87, Cl. 364-900.000.

Kreiter, Manny, to Castcraft Industries, Inc. Color proofing and color proofing transfer process using water developed ink. 4,710,447, 12-1-87, Cl. 430-293.000.

Kreitlow, David B.: *See—*

Wimmer, Guenther W.; and Kreitlow, David B., 4,662,622, Cl. 271-96.000.

Kreitmeier, Franz, to BBC Brown, Boveri & Company, Limited. Rotor, consisting essentially of a disc requiring cooling and of a drum. 4,648,791, 3-10-87, Cl. 415-116.000.

Kreitzberg, John S.: *See—*

Fleck, Robert S.; and Kreitzberg, John S., 4,633,601, Cl. 37-118.00R.

Kreitzer, Melvyn H.; and Betensky, Ellis I., to FJW Industries, Inc. Objective lens system, relay lens system, and eyepiece lens system for night-vision goggles. 4,655,562, 4-7-87, Cl. 350-538.000.

Kreitzer, Melvyn H., to Vivitar Corporation. Zoom lens. 4,659,188, 4-21-87, Cl. 350-427.000.

Kreizman, Alexander; and Broadwin, Alan, to Cooper LaserSonics, Inc. Angulated ultrasonic surgical handpieces and method for their production. 4,634,419, 1-6-87, Cl. 604-22.000.

Krejci, Paul: *See—*

Maget, Henri J. R.; and Krejci, Paul, 4,687,423, Cl. 417-379.000.

Krejcir, Oldrich; Zajic, Bohuslav; and Saroun, Pavel, to Vysoka skola strojni a textilni. Resilient mounting of a centrifuge. 4,706,923, 11-17-87, Cl. 248-638.000.

Krekeler, Hans: *See—*

Fernholz, Hans; Krekeler, Hans; Roscher, Gunter; Schmidt, Hans-Joachim; Schmitz, Heinz; and Wunder, Friedrich, 4,668,819, Cl. 560-245.000.

Kremendahl, Juergen, to Globus Fussstutzenfabrik Karl Kremendahl. Orthopedic supporting member, particularly orthopedic shoe inserts, and method of its manufacture. 4,715,131, 12-29-87, Cl. 36-44.000.

Kremer, Carl P., Jr., to Mallinckrodt, Inc. Method and apparatus for the diagnosis of respiratory diseases and allergies. 4,660,547, 4-28-87, Cl. 128-1.100.

Kremer, Han-Joachim: *See—*

Wimmer, Theodor; and Kremer, Han-Joachim, 4,668,491, Cl. 423-244.000.

Kremer, Leon V.; and Kieras, Ronald E., to Pittway Corporation. Applicator device. 4,685,820, 8-11-87, Cl. 401-260.000.

Kremer, Paul W.: *See—*

DePasquale, Ralph J.; Evans, James M.; and Kremer, Paul W., 4,645,846, Cl. 556-419.000.

Kremer, Richard D., to Schleicher & Schuell, Inc. Nonintrusive body fluid samplers and methods of using same. 4,635,488, 1-13-87, Cl. 73-864.720.

Kremer, Robert M.: *See—*

DiPaola, Donald A.; Kremer, Robert M.; and Gallagher, Kevin C., 4,674,801, Cl. 297-472.000.

Kremer, Ross A.: *See—*

Driscoll, Patrick R.; and Kremer, Ross A., 4,714,600, Cl. 423-319.000.

Kremer, Wolfgang: *See—*

Meixner, Jurgen; Muller, Manfred; and Kremer, Wolfgang, 4,673,758, Cl. 560-90.000.

Kremp, Jurgen: *See—*

Muller, Dietmar; and Kremp, Jurgen, 4,713,127, Cl. 149-98.000.

Krempl, Peter W.; Stubenberg, Johann; and Enko, Alfred, to AVL Gesellschaft fur Verbrennungskraftmaschinen und Messtechnik mbH, Prof. Dr.Dr.h.c. Hans List. Piezoelectric sensor element with at least two single crystal elements. 4,667,127, 5-19-87, Cl. 310-338.000.

Krendeleva, Alisa I.: *See—*

Paton, Boris E.; Medovar, Boris I.; Biletsky, Semen M.; Saenko, Vladimir Y.; Us, Vasiliy I.; Krendeleva, Alisa I.; Barvinko, Jury P.; Medovar, Lev B.; Pivovarsky, Nikolai B.; and Astafiev, Nikolai A., 4,711,387, Cl. 228-143.000.

Krenitsky, Thomas A., to Burroughs Wellcome Co. Antiviral compound use. 4,695,570, 9-22-87, Cl. 514-261.000.

Krenn, Karl-Dieter: *See—*

Fischer, Wolfgang; and Krenn, Karl-Dieter, 4,647,542, Cl. 436-42.000.

Fischer, Wolfgang; and Krenn, Karl-Dieter, 4,703,014, Cl. 436-42.000.

Krennbauer, Franz; and Fehringer, Friedrich, to Voest-Alpine Aktiengesellschaft; and VEB Schwermaschinenbau-Kombinat "Ernst Thalman" Magdeburg. Process and apparatus for thermally treating fine-grained solids, particularly for burning ground raw material for making cement. 4,685,970, 8-11-87, Cl. 106-100.000.

Krens, Frans A.: *See—*

Schilperoort, Robbert A.; Krens, Frans A.; and Wullems, George J., 4,684,611, Cl. 435-172.300.

Krenz, Horst M., to Zenith Electronics Corporation. Portable personal computer. 4,669,053, 5-26-87, Cl. 364-708.000.

Krenzel, Ronald L. Sewn polyolefin and fabric bag and method of making bag. 4,703,519, 10-27-87, Cl. 383-97.000.

Krenzer, John: *See—*

Sommer, Harold Z.; Krenzer, John; Owens, Omer O.; and Miller, Jacob L., 4,677,204, Cl. 546-261.000.

Krepel, Pedro A.: *See—*

Ladeira, Newton C.; De Oliveria, Paulo R. M.; Marante, Adilson P.; and Krepel, Pedro A., 4,649,033, Cl. 423-242.000.

Krepelka, Jiri; Vancurova, Iva; Rezabek, Karel; Melka, Milan; Pujman, Vojtech; Pokorna, Stanislava; Reichlova, Ruzena; and Cernochova, Slavjanka, to SPOFA, spojene podniky pro zdravotnickou vyrobu. Basic ethers of 7-oxo-7H-benzo(c) fluorene and a process for their production. 4,661,297, 4-28-87, Cl. 260-501.180.

Krepelka, Jiri: *See—*

Cerny, Antonin; Krepelka, Jiri; Rezabek, Karel; Fruhaufova, Maria; Pesak, Milan; Sevcik, Bohumil; Kral, Josef; Borovicka, Antonin; Bilek, Petr; Picmausova, Dagmar; Stuchlik, Josef; Picha, Josef; and Strakova, Jana, 4,692,452, Cl. 514-288.000.

Kasafirek, Evzen; Cerny, Martin; Kocis, Petr; Krepelka, Jiri; and Rovensky, Jozef, 4,711,952, Cl. 530-327.000.

Krepski, Larry R.; Smith, Howell K., II; Rasmussen, Jerald K.; and Heilmann, Steven M., to Minnesota Mining and Manufacturing Company. Method of preparing N-acryloyl-α-amino acids. 4,694,103, 9-15-87, Cl. 562-450.000.

Krepski, Larry R.: *See—*

Katritzky, Alan R.; Heilmann, Steven M.; Krepski, Larry R.; Rasmussen, Jerald K.; and Tarr, Richard D., 4,659,801, Cl. 528-226.000.

Rasmussen, Jerald K.; Katritzky, Alan R.; Krepski, Larry R.; Smith, Howell K., II; Heilmann, Steven M.; and Sakizadeh, Kumars, 4,667,012, Cl. 528-332.000.

Kresge, Edward N.; and Ver Strate, Gary W., to Exxon Research & Engineering Co. Ethylene polymer useful as a lubricating oil viscosity modifier E-25. 4,666,619, 5-19-87, Cl. 252-56.00S.

Kresge, Edward N.: *See—*
Jevanoff, Andre; and Kresge, Edward N., 4,659,759, Cl. 524-68.000.

Krespan, Carl G., to Du Pont de Nemours, E. I., and Company. Polyfluoro gamma-ketoesters and 5-hydroxy gamma lactone analogues thereof. 4,686,300, 8-11-87, Cl. 549-313.000.

Kress, Hans-Jurgen; Bottenbruch, Ludwig; Witman, Mark; Kircher, Klaus; Lindner, Christian; and Ott, Karl-Heinz, to Bayer Aktiengesellschaft. Process for the preparation of flame-resistant polycarbonate moulding compositions containing tetrafluoroethylene polymers. 4,649,168, 3-10-87, Cl. 524-130.000.

Kress, Hans-Jurgen; and Kircher, Klaus, to Bayer Aktiengesellschaft. Flameproofing agents, their preparation and their use for flameproofing polycarbonates. 4,657,955, 4-14-87, Cl. 524-94.000.

Kress, Hans-Jurgen; and Kircher, Klaus, to Bayer Aktiengesellschaft. Flameproofing agents, their preparation and their use for providing polycarbonates with a flame-resistant finish. 4,661,543, 4-28-87, Cl. 524-94.000.

Kress, Hans-Jurgen; Lindner, Christian; Morbitzer, Leo; Peters, Horst; Ott, Karl-Heinz; and Schoeps, Jochen, to Bayer Aktiengesellschaft. Thermoplastic moulding compositions consisting of polycarbonates, graft polymers and copolymers. 4,583,265, 7-28-87, Cl. 525-67.000.

Kress, Hans-Jurgen; Muller, Friedemann; Lindner, Christian; Peters, Horst; and Buekers, Josef, to Bayer Aktiengesellschaft. Thermoplastic polycarbonate moulding compositions. 4,692,488, 9-8-87, Cl. 524-139.000.

Kress, Hans-Jurgen; and Kircher, Klaus, to Bayer Aktiengesellschaft. Flameproofing agents, their preparation and their use for providing polycarbonates with a flame-resistant finish. 4,713,462, 12-15-87, Cl. 548-473.000.

Kress, Hans-Jurgen: *See—*
Lindner, Christian; Ott, Karl-Heinz; Uerdingen, Walter; Braese, Hans-Eberhard; and Kress, Hans-Jurgen, 4,666,980, Cl. 525-83.000.

Kress, Hermann, to Hansa Metallwerke AG. Control disc valve. 4,715,406, 12-29-87, Cl. 137-625.170.

Kress, Hermann K., to Hansa Metallwerke AG. Shower head. 4,650,120, 3-17-87, Cl. 239-446.000.

Kress, James W.: *See—*
Giachino, Joseph M.; and Kress, James W., 4,647,013, Cl. 251-331.000.

Kress, Kenneth: *See—*
Chu, Mosi; Kress, Kenneth; and Manber, Solomon, 4,675,701, Cl. 346-76.0PH.

Kress, Willy. Drilling and percussion hammer. 4,712,625, 12-15-87, Cl. 173 104.000.

Kresse, Franz: *See—*
Osberghaus, Rainer; and Kresse, Franz, 4,648,882, Cl. 8-142.000.

Kressin, Brian S.: *See—*
Lerner, Christopher; and Kressin, Brian S., 4,657,253, Cl. 273-58.00A.

Kressirer, Rudolf; and Oehler, Siegfried, to Hoechst Aktiengesellschaft. Method for detecting step losses in stepping-motor-driven adjusting devices. 4,683,410, 7-28-87, Cl. 318-696.000.

Kretchmar, Monte R.; and England, Charles K., to Behm, Inc. Heat generating unit for heating a liquid. 4,664,068, 5-12-87, Cl. 122-26.000.

Kretchmer, Richard A.: *See—*
Tolpin, Thomas W.; and Kretchmer, Richard A., 4,692,318, Cl. 423-239.000.

Kreth, Norbert; Buttner, Peter; and Mucheyer, Norbert, to Mannesmann Rexroth GmbH. Priority control for hydraulic consumers. 4,665,939, 5-19-87, Cl. 137-101.000.

Kreth, Norbert; and Buttner, Peter, to Mannesmann Rexroth GmbH. Hydraulic priority control means for at least two servo motors. 4,669,363, 6-2-87, Cl. 91-516.000.

Kreth, Norbert; Buttner, Peter; and Stellwagen, Armin, to Mannesmann Rexroth GmbH. Multiway valve with pressure balance. 4,688,600, 8-25-87, Cl. 137-596.000.

Kretschmer, Frank F., to United States of America, Navy. Generalized polyphase code pulse compressor. 4,698,827, 10-6-87, Cl. 375-86.000.

Kretschmer, Helmut; and Hochkoenig, Manfred, to Dr. Ing. h.c.F. Porsche Aktiengesellschaft. Motor vehicle with an air guidance device arranged in the body. 4,673,206, 6-16-87, Cl. 296-1.00S.

Kretschmer, Helmut, to Dr. Ing. h.c.F. Porsche Aktiengesellschaft. Aerodynamic arrangement for a passenger motor vehicle. 4,688,840, 8-25-87, Cl. 296-1.00S.

Kretschmer, Helmut: *See—*
Reichel, Anton; Lohmann, Bernard; Kolb, Eugen; Hochkonig, Manfred; Burst, Hermann; and Kretschmer, Helmut, 4,690,204, Cl. 165-44.000.

Kretschmer, Horst: *See—*
Buthe, Theo; Geisthoff, Hubert; Kretschmer, Horst; Mikeska, Felix; and Post, Alexander, 4,639,163, Cl. 403-322.000.

Kretschmer, Jurgen: *See—*
Lang, Werner; and Kretschmer, Jurgen, 4,653,726, Cl. 251-337.000.

Kretschmer, Karl-Heinz: *See—*
John, Gunter; Kretschmer, Karl-Heinz; and Rollich, Jurgen, 4,714,204, Cl. 241-55.000.

Kretschmer, Sylvain: *See—*
Lacotte, Jean-Pierre; Kretschmer, Sylvain; Oprandi, Pierre; and Breussaud, Georges, 4,659,407, Cl. 156-196.000.

Krettek, Ottmar: *See—*
Ortwein, Hermann; Krettek, Ottmar; and Nicolin, Johann
4,637,646, Cl. 295-37.000.

Krettenauer, Gustav; and Kiwitz, Heinz, to Daimler-Benz Aktiengese
schaft. Self-propelling vehicle with two axle units cantilevered t
gether. 4,639,008, 1-27-87, Cl. 280-405.00R.

Kretzer, Horst: *See—*
Weiler, Rolf; Kretzer, Horst; and Leidecker, Hans-Diete
4,650,039, Cl. 188-73.440.

Kretzschmar, Thomas E. Lighting mechanism. 4,689,726, 8-25-87, C
362-127.000.

Kreuder, Hans-Joachim: *See—*
Meyer, Rolf-Volker; Kreuder, Hans-Joachim; and Hohl, Erw
4,698,426, Cl. 544-253.000.

Kreuter, Peter. Electromagnetically-actuated positioning syste
4,682,574, 7-28-87, Cl. 123-90.110.

Kreuter, Peter. Electromagnetically-actuated positioning mechanism
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Kreuter, Peter. Electromagnetically-actuated positioning syste
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Kreuter, Peter: *See—*
Pischinger, Franz; and Kreuter, Peter, 4,700,684, Cl. 123-568.00

Kreutmair, Josef, to Man Technologie GmbH. Method and appara
for the automatic control of a sorption heat transfer plant. 4,706,46
11-17-87, Cl. 62-101.000.

Kreutz, Josef, to Klockner-Humboldt-Deutz Aktiengesellschaft. S
vice console for the operator's position of a tractor. 4,669,564, 6-2
Cl. 180-89.120.

Kreutz, Thomas G.: *See—*
Curtis, Richard M.; and Kreutz, Thomas G., 4,699,076, C
114-347.000.

Kreutzer, Donald L.; Novick, William J., Jr.; and Sheetz, Michael P.,
Hoechst-Roussel Pharmaceuticals Inc. Host defense mechanis
enhancement. 4,636,507, 1-13-87, Cl. 514-263.000.

Kreutzer, Hans: *See—*
Dost, Willibald; and Kreutzer, Hans, 4,638,486, Cl. 372-107.000.

Kreutzer, Karl; and Simmat, Fritz, to Heraeus Quarzschmelze Gmb
Apparatus for manufacturing stria-free, bubble-free and homogen
ous quartz-glass plates. 4,666,495, 5-19-87, Cl. 65-258.000.

Kreuwel, Johannes G., and Schipper, Lambert A., to Stork Ketels B.
Spray unit and degassing installation. 4,701,191, 10-20-87, C
55-198.000.

Kreuz, Werner: *See—*
Pepping, Karl-Heinz; and Kreuz, Werner, 4,643,495, C
312-268.000.

Kreuzer, Franz-Heinrich; Eidenschink, Rudolf; and Weber, Georg,
Merck Patent Gesellschaft mit beschrankter Haftung. Trialkanoyl
ysilanes. 4,678,283, 7-7-87, Cl. 350-340.000.

Kreuzer, Franz-Heinrich: *See—*
Eberle, Hans-Jurgen; Kreuzer, Franz-Heinrich; and Zeitler, N
bert, 4,668,836, Cl. 585-364.000.

Kreuzer, Helmut; and Meier, Klaus-Peter, to Robert Bosch Gmb
Process of making a dynamo electric machine. 4,682,410, 7-28-87,
29-596.000.

Kreuzer, Manfred, to Hottinger Baldwin Measurements, Inc. Electr
multi-position measuring device. 4,644,262, 2-17-87, Cl. 324-62.00

Kreuzer, Matthias: *See—*
Thiem, Joachim; Deger, Hans-Matthias; Kolar, Cenek; and Kr
zer, Matthias, 4,659,810, Cl. 536-22.000.

Kreuzer, Peter: *See—*
Brieseck, Bernd; and Kreuzer, Peter, 4,635,881, Cl. 244-49.000.

Krevald, Helga: *See—*
Hourihan, Joseph C.; and Krevald, Helga, 4,704,271,
424-66.000.

Krevor, David H., to Raychem Corporation. Tubular article. 4,685,0
8-4-87, Cl. 367-20.000.

Krewalk, John J.; and Silverberg, Eric C., to Bausch & Lomb Incor
rated. Telescope control system. 4,682,091, 7-21-87, Cl. 318-685.0

Kreyenborg Verwaltungen und Beteiligungen KG: *See—*
Koching, Horst; and Stude, Rolf-Rudiger, 4,701,118,
425-185.000.

Kribs, Natalie A.: *See—*
Crissman, John S., III; Windingland, Lyle [illegible]; and Kribs, Nat
A., 4,706,368, Cl. 29-526.00R.

Krichiver, Joel, to Robbie Manufacturing, Inc. Narrow film b
adapter. 4,651,499, 3-24-87, Cl. 53-137.000.

Kricsfalussy, Zoltan: *See—*
Stammann, Gunter; Kricsfalussy, Zoltan; Waldmann, Hel
Schneider, Joachim; and Medem, Harald, 4,714,689,
502-54.000.

Kriebel, Arnd, to Ciba-Geigy AG. Process for the preparatio
photographic direct-positive emulsions. 4,704,349, 11-3-87,
430-406.000.

Kriebernegg, August: *See—*
Leinfellner, Herwig; and Kriebernegg, August, 4,703,842,
192-58.00B.

Kriechbaum, Gerhard: *See—*
Gunter, Heinz; Kriechbaum, Gerhard; Krojer, Hubert; Mat
Rudolf; and Spintzyk, Johannes, 4,638,962, Cl. 244-203.000.

Krieg, James C., to McDonnell Douglas Corporation. Electromag
communications and switching system. 4,688,037, 8-18-87,
340-825.720.

Krieg, John: *See—*
Press, Irving D.; and Krieg, John, 4,681,349, Cl. 285-55.000.

Krieg, Larry M.: *See*—

Richardson, Charles P.; Kuhl, Virgil; Gasparaitis, Bernard; Staple, Bruce; and Krieg, Larry M., 4,679,233, Cl. 379-433.000.

Krieg, Rolf, to Kernforschungszentrum Karlsruhe GmbH. Pressure release arrangement for the safety containment of a pressurized water nuclear reactor. 4,654,191, 3-31-87, Cl. 376-283.000.

Krieg, Walter, to Gesellschaft Fuer Roboter und Logistiktechnologie. Rolotec AG. Driven vehicle of an automatic transport system. 4,674,590, 6-23-87, Cl. 180-275.000.

Kriegel, Carl P., to M.C.E. Window, Inc. Semi-manually operated service window. 4,641,460, 2-10-87, Cl. 49-115.000.

Krieger, Allen: *See*—

Burstein, Paul; Krieger, Allen; Annis, Martin; and Chase, Richard C., 4,691,332, Cl. 378-7.000.

Krieger, Charles F.; Schultz, Wilbur L.; and Kong, Robert L., to Computer Election Systems. Electronic item selection apparatus and method. 4,667,293, 5-19-87, Cl. 364-409.000.

Krieger Corporation: *See*—

Krieger, David, 4,688,502, Cl. 112-439.000.

Krieger, David, 4,690,084, Cl. 112-266.100.

Krieger, David, to Krieger Corporation. Puffed embroidered design fabrics. 4,688,502, 8-25-87, Cl. 112-439.000.

Krieger, David, to Krieger Corporation. Production of puffed embroidered design fabrics. 4,690,084, 9-1-87, Cl. 112-266.100.

Krieger, Eberhard; and Moser, Theo, to Robert Bosch GmbH. Platform conveyor. 4,643,297, 2-17-87, Cl. 198-803.010.

Krieger, Friedrich; and Weis, Otto, to Gg. Noell GmbH. Manipulator for a nuclear reactor. 4,666,050, 5-19-87, Cl. 212-211.000.

Krieger, Karl; and Reinelt, Werner, to Hermann Hemscheidt Maschinenfabrik GmbH & Co. Hydraulic valve control apparatus. 4,676,698, 6-30-87, Cl. 405-302.000.

Krieger, Karl; and Reinelt, Werner, to Hermann Hemscheidt Maschinenfabrik GmbH & Co. Prop control valve. 4,694,730, 9-22-87, Cl. 91-170.0MP.

Krieger, Karl: *See*—

Kuster, Willi; Krieger, Karl; and Reinelt, Werner, 4,660,595, Cl. 137-494.000.

Krieger, Willi: *See*—

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Hirsch, Michael; Kristensen, Peter D.; and Dunn, William W., 4,672,845, Cl. 73-151.000.

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Grandt, Kenneth G., 4,703,549, Cl. 29-426.500.

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Krob, Vaclav: *See—*
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Churchward, Reed R.; and Krocheski, Thomas L., 4,691,303, Cl. 365-222.000.

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Rudolf; and Spintzyk, Johannes, 4,638,962, Cl. 244-203.000.

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Spierings, Gijsbertus A. C. M.; Krol, Denise M.; and Thomas, G
E., 4,680,503, Cl. 313-480.000.

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Krones AG Herman Kronseder Maschinenfabrik: *See*—

Weiss, Wilhelm, 4,655,029, Cl. 53-432.000.

Krones AG Hermann Kronseder Maschinenfabrik: *See*—

Weiss, Wilhelm, 4,637,438, Cl. 141-6.000.

Kronhaus, Howard E.: *See*—

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Kroning, Michael; Holzler, Georg; and Heumuller, Roland, to Kraftwerk Union Aktiengesellschaft. Method and apparatus for the ultrasonic testing of bolts with a wall thickness discontinuity. 4,640,131, 2-3-87, Cl. 73-600.000.

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Kronogard, Sven O., deceased; Linden, Allen, administrator; Kronogard, Clas O.; and Kronogard, Hakan, 4,638,637, Cl. 60-718.000.

Kronogard, Clas-Olof: *See*—

Kronogard, Sven-Olof; Kronogard, Clas-Olof; and Kronogard, Hakan, 4,674,284, Cl. 60-624.000.

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Kronos Titan-GmbH: *See*—

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Kronschnabel, Hartmut; Goerings, Wilhelm; Bolingen, Johann; and Kleine-Vennekate, Gerd, to Kernforschungsanlage Julich GmbH. Process for the separation of coated nuclear fuel particles from a graphitic matrix and installation for implementing the process. 4,687,600, 8-18-87, Cl. 252-627.000.

Kronseder, Hermann. Inspection machine for bottles. 4,636,635, 1-13-87, Cl. 250-223.00B.

Kronseder, Hermann. Labeling station for bottles or the like. 4,683,835, 8-4-87, Cl. 118-231.000.

Kronseder, Hermann. Gluing device for labeling machines. 4,685,417, 8-11-87, Cl. 118-261.000.

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Kronstadt, Eric P.: *See*—

Kirkpatrick, Edward S.; Kronstadt, Eric P.; Montoye, Robert K.; and Wilcke, Winfried W., 4,656,417, Cl. 324-73.00R.

Kronvall, Hans C. G., to Pharmacia AB. Method for determining one or more antigens in a sample. 4,711,841, 12-8-87, Cl. 435-7.000.

Kronz, Kevin W., to KevKel, Inc. Ski carrying apparatus. 4,673,118, 6-16-87, Cl. 224-259.000.

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Csery, Huba; Czigany, Imre; Horvath, Zoltan; Kertesz, Ivan; Kroo, Norbert; and Schmidt, Gyorgy, 4,644,550, Cl. 372-40.000.

Kroon, Henricus J. J.: *See*—

Vollenbroek, Franciscus A.; Dil, Jan G.; Kroon, Henricus J. J.; Spiertz, Elisabeth J.; and Nijssen, Wilhelmus P. M., 4,704,347, Cl. 430-312.000.

Kroon, Johannes N., to U.S. Philips Corporation. Device for generating the audio information of a set of characters. 4,689,817, 8-25-87, Cl. 381-52.000.

Kroon, Robert J.; and Schmidt, Clayton C., to HON Company, The. Movable storage unit. 4,674,806, 6-23-87, Cl. 312-250.000.

Kroontje, Wiggert, to U.S. Philips Corporation. Method of removing hydrocarbons from vacuum tubes. 4,645,468, 2-24-87, Cl. 445-55.000.

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Bouman, Anton J.; Kostlin, Heiner; and Kroontje, Wiggert, 4,645,967, Cl. 313-248.000.

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Kahan, Frederick M.; and Kropp, Helmut, 4,665,504, Cl. 424-10.000.

Kropp, Philip: *See*—

Brown, Richard E.; St. Georgiev, Vassil; Kropp, Philip; and Loev, Bernard, 4,668,678, Cl. 514-250.000.

Kropp, Walter, to Linde Aktiengesellschaft. Dual consumer hydraulic mechanisms. 4,635,440, 1-13-87, Cl. 60-422.000.

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Hopfgartner, Johann; Hurka, Wilhelm; Grablowitz, Otto; and Kropp, Wolfgang, 4,652,442, Cl. 514-420.000.

Krosby, Erling R. Overcoat combined with lining transferrable to leg warmer. 4,663,781, 5-12-87, Cl. 2-86.000.

Kross, Robert D., to Hydro Optics, Inc. Air freshener. 4,649,046, 3-10-87, Cl. 424-76.000.

Krouglicof, Nicholas; McKinnon, Gordon M.; and Svoboda, Jaroslav, to CAE Electronics, Ltd. Optical position and orientation measurement techniques. 4,649,504, 3-10-87, Cl. 364-559.000.

- Krounbi, Mohamad T.; and Voegeli, Otto, to International Business Machines. Magnetoresistive read transducer. 4,713,708, 12-15-87, Cl. 360-113.000.
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  - Zverina, Karel; Tluchor, Denek; Szabo, Josef; Polidor, Jaromir; and Kroupa, Petr, 4,639,570, Cl. 219-121.0PP.
- Kroupa, Richard F.: *See—*
  - Bremer, James C.; Hurt, Fred S.; Romanski, John G.; Kroupa, Richard F.; and Kraus, Ronald G., 4,713,533, Cl. 250-203.00R.
- Krouse, Jere L.: *See—*
  - Baumgardner, Terry A.; Krouse, Jere L.; and Wild, Alan G., 4,639,200, Cl. 418-48.000.
- Krovak, Premysl; Behunek, Vladimir; Vojtisek, Vladimir; Salvet, Miroslav; and Hasal, Pavel, to Ceskoslovenska akademie ved. Method of circulation of a liquid phase through a solid phase particularly for biocatalytical reactions and a device for realization thereof. 4,683,062, 7-28-87, Cl. 210-617.000.
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- Kroy Inc.: *See—*
  - Bradshaw, Franklin C.; and Maloney, Patrick M., 4,697,950, Cl. 400-134.600.
  - Richardson, Michael M.; and Schafler, Douglas A., 4,678,353, Cl. 400-248.000.
- Kroy, Ralph E.; and Catterfeld, Fritz C., to Rockwell International Corporation. Sealed and balanced motor and fluid pump system. 4,644,202, 2-17-87, Cl. 310-58.000.
- Kroy, Ralph E.: *See—*
  - Catterfeld, Fritz C.; and Kroy, Ralph E., 4,644,207, Cl. 310-126.000.
- Krstic, Slobodan: *See—*
  - Bielinski, Ralph F.; Jaeschke, James R.; Krstic, Slobodan; Piber, Earl T.; and Theisen, Peter J., 4,642,481, Cl. 307-252.0UA.
- Kruckemeyer, William C.; Buchanan, Harry C., Jr.; and Fannin, Wayne V., to General Motors Corporation. Rotational actuator for vehicle suspension damper. 4,644,200, 2-17-87, Cl. 310-43.000.
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- Krude, Werner, to GKN Automotive Components Inc. Independent wheel suspension system using thrust bearing constant velocity universal drive joints as suspension members in combination with a single prop shaft joint and a transversely pivotable differential. 4,669,571, 6-2-87, Cl. 180-73.300.
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- Krueger, David J., to Littelfuse, Inc. Fuse with corrugated filament. 4,636,765, 1-13-87, Cl. 337-273.000.
- Krueger, David W.; and Yerigan, Raymond A. Endless track attachment for a wheeled vehicle. 4,635,740, 1-13-87, Cl. 180-9.210.
- Krueger, Dennis M., to K-Bear Athletics, Inc. Method of making an expanded ball batting aid. 4,702,866, 10-27-87, Cl. 264-46.400.
- Krueger, Donald P., Sr. Therapeutic support device. 4,649,583, 3-17-87, Cl. 5-508.000.
- Krueger, Gerald G., to University of Utah Research Foundation. Methods of testing the reaction of various substances on living human skin. 4,677,968, 7-7-87, Cl. 128-1.00R.
- Krueger, Heinz: *See—*
  - Augart, Dietmar; Eilingsfeld, Heinz; Krueger, Heinz; Lardon, Hartmut; Schaffer, Ortwin; and Seybold, Guenther, 4,677,199, Cl. 534-618.000.
- Krueger, Helmut. Method and an apparatus for determining refraction of the human eye. 4,637,700, 1-20-87, Cl. 351-211.000.
- Krueger, Inc.: *See—*
  - Holton, Lawrence C., 4,658,735, Cl. 108-131.000.
- Krueger, James M.; Pappenheimer, John R.; Karnovsky, Manfred L.; Lefrancier, Pierre; Choay, Jean; Chedid, Louis; and Lederer, Edgar, to President & Fellows of Harvard College. Somnogenic compositions and method of use. 4,698,330, 10-6-87, Cl. 514-19.000.
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- Krueger, James R.: *See—*
  - Gradl, David A.; and Krueger, James R., 4,704,670, Cl. 363-21.000.
- Krueger, Robert H.: *See—*
  - Fildes, John M.; and Krueger, Robert H., 4,694,686, Cl. 73-104.000.
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  - Curtin, William J.; Soto, Stephen; and Krueger, Steven, 4,701,950, Cl. 379-214.000.
- Krueger, William H.: *See—*
  - Binnersley, Edwin K.; and Krueger, William H., 4,640,861, Cl. 428-294.000.
- Krueger, William R.; McAuliffe, Gerald N.; and Schlageter, George A., to Outboard Marine Corporation. Electric vehicle speed control. 4,675,585, 6-23-87, Cl. 318-358.000.
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  - Meltzer, Clifford B.; Kannan, Krishnamurthi; Burket, Thomas G.; Kruesi, Deborah J.; and Braudaway, Gordon W., 4,712,214, Cl. 371-32.000.
- Kruest, James R., to Applied Micro Circuits Corporation. Level shift circuit for interfacing between two different voltage levels using a current mirror circuit. 4,684,831, 8-4-87, Cl. 307-475.000.
- Krufka, Frank S., to RCA Corporation. Photodetector array interface circuit. 4,665,429, 5-12-87, Cl. 358-107.000.
- Krufka, Frank S., to RCA Corporation. Multiple array panel matrix measurement system. 4,684,982, 8-4-87, Cl. 358-107.000.
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  - Andreatti, Evo, Jr.; and Krufka, Frank S., 4,635,124, Cl. 358-227.000.
- Krug, Aribert: *See—*
  - Feleisen, Peter; Krug, Aribert; and Grosshans, Peter, 4,656,420, Cl. 324-212.000.
- Krug, Erwin: *See—*
  - Lachmann, Ulrich; and Krug, Erwin, 4,651,083, Cl. 323-316.000.
- Krug, John A., to C. R. Bard, Inc. Overpressure safety valve. 4,671,786, 6-9-87, Cl. 604-4.000.
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  - Billingsley, Robert H., Jr.; Jantzen, Steven L.; O'Leary, Walter E.; and Krug, John A., 4,696,238, Cl. 105-248.000.
- Krug, Manfred: *See—*
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- Krug, Martin: *See—*
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- Krug, Richard D.: *See—*
  - DeHaan, Abel; Jones, W. Kinzy; and Krug, Richard D., 4,649,937, Cl. 128-784.000.
- Krug, Ulrich, to Hoesch Aktiengesellschaft. Wire roll bearing. 4,696,586, 9-29-87, Cl. 384-500.000.
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  - Minten, Karl; and Krug, William, 4,637,987, Cl. 436-151.000.
  - Minten, Karl; and Krug, William, 4,677,078, Cl. 436-136.000.
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- Kruger, David B. Jewelry display stand. 4,646,920, 3-3-87, Cl. 211-13.000.
- Kruger, Edmund R.: *See—*
  - Kozlowski, Eric F.; and Kruger, Edmund R., 4,692,199, Cl. 156-245.000.
- Kruger, Gustav, to Feinmetall GmbH. Probe assembly for circuit-board tester. 4,686,465, 8-11-87, Cl. 324-158.00P.
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- Kruger, Hans-Rudolf: *See—*
  - Franke, Helga; Franke, Heinrich; Kruger, Hans-Rudolf; and Joppien, Hartmut, 4,678,811, Cl. 514-721.000.
  - Harre, Michael; Kruger, Hans-Rudolf; Arndt, Friedrich; and Rusch, Reinhart, 4,709,077, Cl. 560-056.000.
- Kruger, Klaus: *See—*
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- Kruger, Kurt J.; and Miller, Lester, to Dart Industries Inc. Electrical connector system. 4,681,385, 7-21-87, Cl. 439-252.000.

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- Kruger, Theunis J.: *See—*
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  - Arnold, Werner; Grasser, Hans; Kruger, Tilmann; and Meisner, Alfred, 4,684,261, Cl. 368-107.000.
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  - Welzel, Peter; Kunisch, Franz; Stein, Hermann; Hiltmann nee Ponty, Aranka; and Kruggel, Frithjof, 4,684,626, Cl. 514-25.000.
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- Kruka, Vitold R., to Shell Oil Company. Process for removal of wax deposits. 4,646,837, 3-3-87, Cl. 166-304.000.
- Krukas, David: *See—*
  - Lerner, Joseph S.; and Krukas, David, 4,640,731, Cl. 156-355.000.
- Krukowski, Richard: *See—*
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  - Do, Phuc K.; Goodwin, Joel G.; and Krull, Nicholas J., 4,680,524, Cl. 318-696.000.
- Krull, Ulrich J.; and Thompson, Michael, to Allied Corporation. Stabilized, lipid membrane-based device and method of analysis. 4,637,861, 1-20-87, Cl. 204-1.00T.
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  - Ellermann, Horst; and Krumboeck, Walter, 4,652,146, Cl. 384-33.000.
- Krumeich, Jorg H. Solution of alpha-chymotrypsin. 4,695,458, 9-22-87, Cl. 424-94.000.
- Krumhansl, Mark U. Valves. 4,655,252, 4-7-87, Cl. 137-595.000.
- Krumm, Klemens: *See—*
  - Reifenhauser, Hans; Reitemeyer, Paul; Krumm, Klemens; and Beisemann, Heinz, 4,708,618, Cl. 425-133.500.
- Krumm, Valentin: *See—*
  - Dornier, Peter; and Krumm, Valentin, 4,655,2o3, Cl. 139-446.000.
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- Krumme, John F.; and Hodgson, Darel E., to Beta Phase, Inc. Fluid delivery apparatus with shape-memory flow control element. 4,645,489, 2-24-87, Cl. 604-65.000.
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- Krumme, John F.: *See—*
  - Carter, Philip S.; and Krumme, John F., 4,701,587, Cl. 219-10.750.
- Krummell, John D.: *See—*
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- Krummenacher, Peter: *See—*
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  - Fehr, Rainer; Grandchamp, Pierre-Andre; and Krummenacher, Peter, 4,649,927, Cl. 128-660.000.
- Krummenauer, Hans: *See—*
  - Eisenbeis, Martin; Hemmer, Walter; and Krummenauer, Hans, 4,693,517, Cl. 299-87.000.
- Krumrey, Klaus: *See—*
  - Edinger, Egon; Koetter, Joachim; Kraske, Dietmar; Krumrey, Klaus; Mayser, Joerg; and Michael, Ulrich, 4,667,403, Cl. 29-840.000.
- Kruncos, Francis E., to Brunswick Corporation. Two and four cycle digital tachometer. 4,687,991, 8-18-87, Cl. 324-169.000.
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  - Lassmann, Reiner; Krupp, Albert; and Fazekas, Peter, 4,686,455, Cl. 324-73.00R.
- Krupp, Gerald L. Logic circuit tester. 4,680,542, 7-14-87, Cl. 324-133.000.
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  - Albertz, Theodor; Baumann, Hans-Richard; and Winkler, Gerhard, 4,651,572, Cl. 73-861.630.
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  - Pohl, Hans C., 4,655,793, Cl. 48-210.000.
  - Preusser, Gerhard; and Schulze, Martin, 4,664,783, Cl. 208-313.000.
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  - Allers, Tyark; and Blasczyk, Gotthardt, 4,690,335, Cl. 241-24.000.
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  - Supp, Armin; and Nebe, Rainer, 4,692,244, Cl. 210-219.000.
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  - Heller, Wilhelm; Flugge, Jurgen; and Ratz, Gerhard, 4,714,500, Cl. 148-12.00R.
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- Krupp, Stephen P.: *See—*
  - Waters, Donald D.; Fletcher, Thomas K.; and Krupp, Stephen P., 4,647,360, Cl. 204-296.000.
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Kruse, Charles F. Collapsible goal frame. 4,702,478, 10-27-87, Cl. 273-127.00B.
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Kruse, Hansjorg: *See—*
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Kruse, Hubert: *See—*
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  Krutz, Gary W.; and Kruse, James W., 4,693,125, Cl. 73-862.390.
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  Kaiser, Carl; Kruse, Lawrence I.; and Ross, Stephen T., 4,634,711, Cl. 514-341.000.
  Kaiser, Carl; and Kruse, Lawrence I., 4,707,485, Cl. 514-307.000.
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Krusos, Denis A.: *See—*
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Krutchen, Charles M.; and Wu, Wen-Pao, to Mobil Oil Corporation. Polymer foam, thermoformed shapes thereof and methods of forming same. 4,665,105, 5-12-87, Cl. 521-180.000.
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Krutz, Gary; and Hansen, David L. Integral rotational displacement sensor for an hydraulic motor. 4,679,488, 7-14-87, Cl. 91-1.000.
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Kryder, Mark H.; and Shieh, Han-Ping D., to General Electric Company. Process for direct over-writing of digital data recorded on magneto-optical recording media. 4,679,180, 7-7-87, Cl. 369-13.000.
Kryder, Ralph W. Sports training apparatus. 4,693,570, 9-15-87, Cl. 350-616.000.
Krygowski, Matthew A.: *See—*
  Chiesa, George L.; Krygowski, Matthew A.; Messina, Benedicto U.; and Papanastasiou, Theodore A., 4,654,778, Cl. 364-200.000.
Kryos Energy Inc.: *See—*
  Markbreiter, Stephen J.; and Weiss, Irving, 4,704,146, Cl. 62-17.000.
  Markbreiter, Stephen J.; and Dessanti, Daniel J., 4,711,093, Cl. 62-87.000.
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Kryscyk, Robert, to Deere & Company. Power lift for a lifting device. 4,715,770, 12-29-87, Cl. 414-680.000.
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Krysiak, Gary D.: *See—*
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Krzyzewski, John. Arsenical creosote wood preservatives. 4,656,06 4-7-87, Cl. 427-397.000.
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Ksander, Gary M.: *See—*
  Stanton, James L.; and Ksander, Gary M., 4,678,800, Cl. 514-412.000.
KSM Fastening Systems Inc.: *See—*
  Raycher, Robert J.; Pease, Charles C.; and Bernd, Kevin L., 4,660,343, Cl. 52-378.000.
  Raycher, Robert J.; and Pease, Charles C., 4,705,424, Cl. 403-266.000.
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  Kinnunen, Paavo K. J.; Schroder, Tom M.; and Virtanen, Jorma A., 4,668,623, Cl. 435-19.000.
KTA-Tator, Inc.: *See—*
  Tator, Kenneth B.; and Lackey, Richard O., 4,698,507, Cl. 250-429.000.
Ku, Chol, to Cosco, Inc. Carriage. 4,699,392, 10-13-87, Cl. 280-87.02W.
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Ku, Walter H.: *See—*
  Ankri, David G.; Eastman, Lester F.; and Ku, Walter H., 4,672,404, Cl. 357-16.000.
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Ku, Wen: *See—*
  Anderson, Lewis G.; and Ku, Wen, 4,653,048, Cl. 370-94.000.
Kuau Technology, Ltd.: *See—*
  Decker, John A., Jr., 4,707,926, Cl. 33-267.000.
Kub, Francis J., to Westinghouse Electric Corp. Method of forming a lateral bipolar transistor in a groove. 4,704,786, 11-10-87, Cl. 437-32.000.
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Kubach, Hans: *See—*
  Gmelin, Karl; Kubach, Hans; Maisch, Wolfgang; Peters, Klaus-Jurgen; and Schelhas, Peter, 4,648,368, Cl. 123-454.000.
  Jaggle, Gunther; Kubach, Hans; and Paschke, Werner, 4,666,087, Cl. 239-451.000.
Kubacki, Edward F.; and Masciale, John M., to American Can Company. Apparatus for marking moving articles. 4,635,545, 1-13-87, Cl. 101-4.000.
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  Madi-Szabo, Laszlo; Morvai, Margit; Horvath nee Feher, Eva; Jansco, Sandor; Tamasi, Piroska; Kovacs, Istvan; Kiss nee Losi, Ilona Maria; Bacsa, Gyorgy; Kubala nee Papp, Maria; and Sene nee Horvath, Magdolna, 4,705,779, Cl. 514-27.000.
Kubelbock, Alfred: *See—*
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Kubert, Vince T.; and Richards, John S., to Harris Graphics Corporation. Fluid metering method and apparatus. 4,709,635, 12-1-87, Cl. 101-426.000.
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  Ziemek, Gerhard; Kubiak, Herbert; and Tripke, Klaus, 4,663,954, Cl. 72-77.000.
Kubiak, John W.: *See—*
  Seeger, John W., Jr.; and Kubiak, John W., 4,637,551, Cl. 239-288.500.
Kubiak, Robert E., to Foxcraft, Inc. Tree step. 4,700,807, 10-20-87, Cl. 182-92.000.
Kubiak, Robert E., to Foxcraft, Inc. Tree stand with pin up system. 4,708,221, 11-24-87, Cl. 182-187.000.
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  Schmidt, Oskar; and Kubica, Wladislaw, 4,708,187, Cl. 152-530.000.
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  Drake, Charles A.; and Kubicek, Donald H., 4,661,466, Cl. 502-184.000.
  Fruthaler, Katherine J.; Hopkins, Thomas R.; Hitzman, Donald O.; Kubicek, Donald H.; and Kallenbach, Lyle R., 4,681,758, Cl. 424-78.000.
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Kubick, Frederick, to United Technologies Corporation. Poled domain beam scanner. 4,636,799, 1-13-87, Cl. 343-754.000.
Kubick, Frederick, to United Technologies Corporation. Switchable bandwidth filter. 4,639,093, 1-27-87, Cl. 350-388.000.
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Kubicki, Karl: *See*—
  Cornely, Wolfgang; Stein, Dietrich; Maidl, Bernhard; and Kubicki, Karl, 4,652,174, Cl. 405-146.000.

Kubicki, Philip; and Richardson, Geoffrey. Bridge and tuning mechanism for stringed instruments. 4,712,463, 12-15-87, Cl. 84-304.000.

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  Koppensteiner, James V.; and Kubik, Charles K., 4,690,356, Cl. 248-68.100.
  Neese, Wayne E.; and Kubik, Charles K., 4,657,423, Cl. 403-21.000.

Kubik, Inc.: *See*—
  Kubik, Philip A., 4,669,266, Cl. 60-422.000.

Kubik, Peter S.: *See*—
  Budrikis, Zigmantas L.; Hatamian, Mehdi; Kubik, Peter S.; and Netravali, Arun N., 4,705,942, Cl. 250-227.000.

Kubik, Philip A., to Kubik, Inc. Closed-loop system for unequal displacement cylinder. 4,669,266, 6-2-87, Cl. 60-422.000.

Kubit, Raymond G., to Weber Marking Systems, Inc. Xerographic copying on a transparent sheet. 4,637,974, 1-20-87, Cl. 430-126.000.

Kubitza, Werner; and Mennicken, Gerhard, to Bayer Aktiengesellschaft. Use of polyisocyanates or polyisocyanate mixtures as additives for aqueous emulsion paints. 4,711,918, 12-8-87, Cl. 524-196.000.

Kubler, Erwin: *See*—
  Veyhl, Wolf; and Kubler, Erwin, 4,679,510, Cl. 108-152.000.

Kublick, Christian: *See*—
  Fischer, Dietmar; and Kublick, Christian, 4,642,475, Cl. 307-66.000.

Kubo, Chikanari, to Eishin Technology Company, Ltd. Variable displacement pump. 4,708,603, 11-24-87, Cl. 417-415.000.

Kubo, Emiko: *See*—
  Sato, Takashi; Kubo, Emiko; and Kayashima, Takako, 4,716,108, Cl. 435-7.000.

Kubo, Haruaki; and Kamanaka, Yoshiyuki, to Daishowa Seiki Co., Ltd. Tapping head. 4,708,538, 11-24-87, Cl. 408-59.000.

Kubo, Isoroku, to Cummins Engine Company, Inc. Gas lubricated piston ring assembly. 4,681,326, 7-21-87, Cl. 277-27.000.

Kubo, Jun, to Nissan Motor Company, Limited. Anti-skid brake control system with a plurality of independently operative digital controllers. 4,656,588, 4-7-87, Cl. 364-426.000.

Kubo, Jun, to Nissan Motor Company, Limited. Anti-lock brake control system including a procedure of sampling of input time data of wheel speed sensor signals and method therefor. 4,660,146, 4-21-87, Cl. 364-426.000.

Kubo, Jun, to Nissan Motor Company, Limited. Automotive anti-skid control system with control of sampling of input time data of wheel speed sensor signals and method therefor. 4,663,715, 5-5-87, Cl. 364-426.000.

Kubo, Jun, to Nissan Motor Company, Limited. Anti-skid control system for automotive brake system with sample control for sampling input timing of sensor signal pulses with required process identification and method for sampling. 4,663,716, 5-5-87, Cl. 364-426.000.

Kubo, Jun, to Nissan Motor Company, Limited. Anti-skid brake control system with sample control of sensor signal input time data, and method therefor. 4,665,491, 5-12-87, Cl. 364-424.000.

Kubo, Jun, to Nissan Motor Company, Limited. Method and system for deriving wheel acceleration and deceleration in automotive anti-skid brake control systems. 4,669,045, 5-26-87, Cl. 364-426.000.

Kubo, Jun, to Nissan Motor Company, Limited. Method and system for deriving wheel rotation speed data for automotive anti-skid control. 4,669,046, 5-26-87, Cl. 364-426.000.

Kubo, Jun, to Nissan Motor Company, Limited. Automotive anti-skid brake control system with sampling input time data of wheel speed sensor signals. 4,674,049, 6-16-87, Cl. 364-426.000.

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Kubo, Jun, to Nissan Motor Company, Limited. Anti-skid brake control system and method featuring vehicle battery protection. 4,679,146, 7-7-87, Cl. 364-426.000.

Kubo, Jun, to Nissan Motor Company, Limited. Anti-skid brake control system with operation control for a pressure reduction fluid pump in hydraulic brake circuit. 4,680,713, 7-14-87, Cl. 364-426.000.

Kubo, Jun, to Nissan Motor Company, Limited. Anti-skid brake control system with reduced duration of wheel acceleration and deceleration calculation. 4,680,714, 7-14-87, Cl. 364-426.000.

Kubo, Jun, to Nissan Motor Company, Limited. Anti-skid brake control system with operational mode control and method therefor. 4,682,295, 7-21-87, Cl. 364-426.000.

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Kubo, Junichi, to Nippon Oil Co., Ltd. Method for cracking heavy hydrocarbon oils. 4,640,765, 2-3-87, Cl. 208-110.000.

Kubo, Kanji, to Honda Giken Kogyo Kabushiki Kaisha. Ball joint. 4,650,362, 3-17-87, Cl. 403-134.000.

Kubo, Kanji; and Shiozaki, Kenichi, to Hitachi, Ltd. Device for detecting an overlap of operands to be accessed. 4,670,836, 6-2-87, Cl. 364-200.000.

Kubo, Kanji, to Honda giken Kogyo Kabushiki Kaisha. Shock absorber mount assembly for motor vehicle suspension. 4,690,425, 9-1-87, Cl. 280-668.000.

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Kubo, Kanji: *See*—
  Mitobe, Keiichi; and Kubo, Kanji, 4,696,488, Cl. 280-690.000.
  Shiozaki, Kenichi; Kishi, Makoto; Yanagita, Tomoatsu; and Kubo, Kanji, 4,658,356, Cl. 364-200.000.
  Shiozaki, Kenichi; and Kubo, Kanji, 4,683,533, Cl. 364-200.000.
  Yamada, Koichi; Kubo, Kanji; and Nishitani, Yasuo, 4,644,414, Cl. 360-40.200.

Kubo, Kazuhiko: *See*—
  Sakashita, Seiji; Sato, Takeshi; Nagai, Hiroyuki; Kubo, Kazuhiko; and Usui, Akira, 4,677,692, Cl. 455-319.000.
  Takahashi, Akira; Shibahara, Kazuo; Morimoto, Katsuhiro; Samma, Hiromasa; and Kubo, Kazuhiko, 4,647,499, Cl. 428-312.600.

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  Takai, Haruki; Nomoto, Yuji; Hirata, Tadashi; Ohno, Tetsuji; and Kubo, Kazuhiro, 4,668,683, Cl. 514-259.000.
  Teranishi, Masayuki; Takahashi, Mitsuru; Nomoto, Hisayo; Kase, Hiroshi; Shuto, Katsuichi; Kubo, Kazuhiro; and Karasawa, Akira, 4,677,125, Cl. 514-7.000.

Kubo, Kazuo; Isomura, Yasuo; Sakamoto, Shuichi; and Homma, Hiroshige, to Yamanouchi Pharmaceutical Co., Ltd. 3,5-di-tert-butyl-4-hydroxyphenyl-substituted heterocyclic compounds. 4,636,516, 1-13-87, Cl. 514-365.000.

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  Miyoshi, Kiyotada; Tsuboi, Noboru; Nishitani, Kunihiko; Kubo, Kazuo; and Yoshimura, Shouji, 4,671,750, Cl. 418-150.000.
  Miyoshi, Kiyotada; Tsuboi, Noboru; Nishitani, Kunihiko; Kubo, Kazuo; and Yoshimura, Shouji, 4,695,233, Cl. 418-83.000.

Kubo, Kenji: *See*—
  Omae, Tsutomu; Obara, Sanshiro; Kubo, Kenji; and Watanabe, Masahiko, 4,712,052, Cl. 318-625.000.

Kubo, Kiichirou; and Kanazaki, Mikio, to Hitachi, Ltd. Liquid crystal display device. 4,687,300, 8-18-87, Cl. 350-336.000.

Kubo, Makoto; Sotoya, Koshiro; and Okabe, Kazuhiko, to Kao Corporation. Process for producing 1,2-substituted imidazoline compounds. 4,709,045, 11-24-87, Cl. 548-352.000.

Kubo, Makoto: *See*—
  Sotoya, Koshiro; Kubo, Makoto; and Okabe, Kazuhiko, 4,705,893, Cl. 562-564.000.

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  Taniguti, Ryosuke; Kohmo, Hidenori; Kubo, Manabu; and Ikeda, Takashi, 4,688,184, Cl. 364-560.000.

Kubo, Masaharu: *See*—
  Shimohigashi, Katsuhiro; Kubo, Masaharu; Miyauchi, Katsuki; Masuhara, Toshiaki; and Minato, Osamu, 4,672,586, Cl. 365-229.000.

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  Fujii, Masanori; Honda, Nobuyasu; Horiuchi, Akira; and Kubo, Masahiko, 4,665,001, Cl. 430-106.000.
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  Dohnomoto, Tadashi; and Kubo, Masahiro, 4,664,704, Cl. 75-229.000.
  Donomoto, Tadashi; Tatematsu, Yoshiaki; Tanaka, Atsuo; and Kubo, Masahiro, 4,708,847, Cl. 420-129.000.
  Hamajima, Kaneo; Dohnomoto, Tadashi; Tanaka, Atsuo; and Kubo, Masahiro, 4,712,600, Cl. 164-97.000.
  Kubota, Shigeru; Kanou, Shoji; and Kubo, Masahiro, 4,670,981, Cl. 29-840.000.

Kubo, Masanove. Flash type sprinkler head. 4,651,832, 3-24-87, Cl. 169-39.000.

Kubo, Masayoshi: *See*—
  Sawaragi, Toru; Kubo, Masayoshi; and Mazaki, Masamitu, 4,650,371, Cl. 405-211.000.
  Takeuchi, Koichi; Yamanaka, Megumi; Inada, Hisanobu; Kubo, Masayoshi; Katayama, Hideaki; Tokunaga, Kenji; and Miyamoto, Yoshinori, 4,649,780, Cl. 82-48.000.
  Takeuchi, Koichi; Yamanaka, Megumi; Kubo, Masayoshi; Katayama, Hideaki; and Tokunaga, Kenji, 4,710,255, Cl. 156-361.000.

Kubo, Matayasu: *See*—
  Tsukamura, Yoshihiro; Morimoto, Toshiro; Kubo, Matayasu; and Mukai, Masataka, 4,660,189, Cl. 369-32.000.

Kubo, Michihiro: *See*—
  Nakamura, Toru; Konishi, Satoshi; Yamada, Seiji; Tatsuoka, Masahiko; and Kubo, Michihiro, 4,708,215, Cl. 177-25.000.

Kubo, Michinori: *See*—
  Tokumaru, Sennosuke; Kubo, Michinori; and Nogami, Mari, 4,702,923, Cl. 426-61.000.

Kubo, Minoru: *See*—
  Sasai, Yoichi; and Kubo, Minoru, 4,702,781, Cl. 437-129.000.

Kubo, Motonobu, to Sanyo-Kokusaku Pulp Co., Ltd. Resin compositions curable by active energy rays. 4,639,500, 1-27-87, Cl. 526-301.000.

Kubo, Osamu; Nomura, Tutomu; Ido, Tadashi; and Yokoyama, Hirotaka, to Kabushiki Kaisha Toshiba. Magnetic powders for magnetic recording media and magnetic recording media employing said magnetic powder therein. 4,636,433, 1-13-87, Cl. 428-328.000.

Kubo, Seiji; Yasuda, Mitsuo; and Katata, Akihide, to Mitsubishi Denki Kabushiki Kaisha. Temperature display for an induction heating apparatus. 4,667,074, 5-19-87, Cl. 219-10.49R.

Kubo, Seitoku; Taga, Yutaka; and Nakamura, Shinya, to Toyota Jidosha Kabushiki Kaisha. Idling control system for an automatic transmission providing smooth starting off action. 4,644,826, 2-24-87, Cl. 74-866.000.

- Kubo, Seitoku; Taga, Yutaka; and Nakamura, Shinya, to Toyota Jidosha Kabushiki Kaisha. Idling control system for an automatic transmission providing anti roll back action. 4,648,289, 3-10-87, Cl. 74-866.000.
- Kubo, Seitoku; Kuramochi, Koujiro; and Kyushima, Tatsuo, to Toyota Jidosha Kogyo Kabushiki Kaisha. Automobile transmission with output shaft parallel to crank shaft and parking gear fixed to the output shaft. 4,676,123, 6-30-87, Cl. 74-695.000.
- Kubo, Seitoku: *See*—
  - Hosono, Chihiro; Hayakawa, Yoichi; Kubo, Seitoku; Taga, Yutaka; and Nakamura, Shinya, 4,673,072, Cl. 192-3.570.
  - Moroto, Shuzo; Sumiya, Koji; Watanabe, Kazuaki; Kubo, Seitoku; Kobayashi, Koji; and Taga, Yutaka, 4,714,146, Cl. 192-85.0AA.
  - Nakamura, Shinya; Kubo, Seitoku; and Taga, Yutaka, 4,693,081, Cl. 60-448.000.
  - Nakamura, Shinya; Kubo, Seitoku; and Taga, Yutaka, 4,702,083, Cl. 60-721.000.
  - Sumiya, Koji; Kano, Takenori; Kubo, Seitoku; and Watanabe, Kazuaki, 4,682,534, Cl. 92-130.00R.
  - Sumiya, Koji; Watanabe, Kazuaki; and Kubo, Seitoku, 4,690,037, Cl. 92-130.00R.
  - Taga, Yutaka; Kubo, Seitoku; Kashihara, Yuji; Morisawa, Kunio; Takada, Mitsuru; and Nakamura, Yasunari, 4,702,341, Cl. 180-249.000.
- Kubo, Shigeki, to Sumitomo Metal Mining Company Limited. Method of recovering gallium from scrap containing gallium. 4,666,575, 5-19-87, Cl. 204-105.00R.
- Kubo, Shigeki; and Yamamoto, Osamu, to Sumitomo Metal Mining Company Limited. Production of finely-divided particulate bismuth oxide. 4,675,171, 6-23-87, Cl. 423-617.000.
- Kubo, Takao, to Tomy Kogyo Co., Inc. Single channel remote controlled toy having multiple outputs. 4,654,659, 3-31-87, Cl. 340-825.760.
- Kubo, Takashi: *See*—
  - Midooka, Masanori; Kubo, Takashi; Fujikawa, Atsunobu; and Motoda, Masanori, 4,708,351, Cl. 277-184.000.
- Kubo, Takashige: *See*—
  - Kinoshita, Toshiyuki; Arai, Toshiaki; Sato, Takao; Kubo, Takashige; Yoshizawa, Yasufumi; and Mori, Hiromichi, 4,703,422, Cl. 364-200.000.
- Kubo, Tateo: *See*—
  - Takeda, Hiroshi; Oshima, Noritsugu; Kubo, Tateo; and Sakaguchi, Kenichi, 4,640,673, Cl. 425-297.000.
- Kubo, Tetsuya: *See*—
  - Ito, Kentaro; Kubo, Tetsuya; and Yamauchi, Yukio, 4,661,320, Cl. 422-86.000.
- Kubo, Toyohide, to AWA Engineering Co., Ltd. Method of loading magnetic recording tape in cassette cases. 4,685,187, 8-11-87, Cl. 29-434.000.
- Kubo, Toyohide, to AWA Engineering Co., Ltd. Apparatus for fabricating computer disks. 4,704,181, 11-3-87, Cl. 156-423.000.
- Kubo, Tsutomu: *See*—
  - Terao, Kazuo; Kubo, Tsutomu; Hyakutake, Nobuo; Tachibana, Hidekiyo; Hama, Jun-ichi; Teshigawara, Touru; and Kajimoto, Masashi, 4,707,428, Cl. 430-102.000.
- Kubo, Yoichiro: *See*—
  - Oyama, Motofumi; Kubo, Yoichiro; and Honda, Toshiharu, 4,643,938, Cl. 428-268.000.
  - Oyama, Motofumi; Honda, Toshiharu; and Kubo, Yoichiro, 4,656,219, Cl. 524-481.000.
  - Watanabe, Noboru; Kubo, Yoichiro; Nakagawa, Tsuyoshi; and Shimoda, Hideyoshi, 4,654,404, Cl. 525-315.000.
- Kubo, Yutaka: *See*—
  - Orita, Miyahiko; Kobayashi, Yoshiki; and Kubo, Yutaka, 4,658,429, Cl. 382-36.000.
  - Seto, Youichi; Homma, Koichi; Komura, Fuminobu; Yamagata, Shimbu; Kubo, Yutaka; and Mizuno, Hirotaka, 4,682,300, Cl. 364-571.000.
- Kubodera, Noboru: *See*—
  - Miyamoto, Katsuhito; Kubodera, Noboru; Ochi, Kiyoshige; Matsunaga, Isao; and Murayama, Eigoro, 4,666,634, Cl. 260-397.200.
- Kubodera, Seiti; Hioki, Takanori; and Okazaki, Masaki, to Fuji Photo Film Co., Ltd. Heat-developable photographic materials. 4,637,975, 1-20-87, Cl. 430-353.000.
- Kubodera, Seiti; Hioki, Takanori; and Okazaki, Masaki, to Fuji Photo Film Co., Ltd. Heat-development color light-sensitive material. 4,677,051, 6-30-87, Cl. 430-550.000.
- Kubodera, Seiti; and Okazaki, Masaki, to Fuji Photo Film Co., Ltd. Image forming process. 4,690,883, 9-1-87, Cl. 430-203.000.
- Kubodera, Seiti; Ukai, Toshinao; and Okada, Hisashi, to Fuji Photo Film Co., Ltd. Heat-developable photographic materials. 4,713,316, 12-15-87, Cl. 430-351.000.
- Kuboi, Kunihiko: *See*—
  - Kurata, Ikuro; Hayashi, Hideaki; Sugiyama, Kazumi; and Kuboi, Kunihiko, 4,654,108, Cl. 156-561.000.
- Kuboki, Hitoshi: *See*—
  - Shinno, Kouji; and Kuboki, Hitoshi, 4,695,276, Cl. 604-283.000.
- Kuboki, Shigeo; Masuda, Ikuro; Masuda, Toshiaki; and Hayashi, Terumine, to Hitachi, Ltd.; and Hitachi Engineering Co., Ltd. Integrated circuit device. 4,701,922, 10-20-87, Cl. 371-25.000.
- Kubon, Achim; and Voss-Spilker, Peter, to Mannesmann AG. Method of horizontal continuous casting. 4,714,106, 12-22-87, Cl. 164-484.000.
- Kubon, Achim: *See*—
  - Ehlert, Klaus-Peter; Kubon, Achim; and Voss-Spilker, Peter, 4,633,934, Cl. 164-484.000.
  - Ehlert, Klaus-Peter; and Kubon, Achim, 4,660,621, Cl. 164-461.000.
  - Keutgen, Franz; Kubon, Achim; Perings, Dieter; Stadler, Pete Voss-Spilker, Peter; and Apel, Karl-Hermann, 4,714,105, C 164-420.000.
- Kuboniwa, Shigeo; Okada, Hideki; and Tamura, Michio, to Sony Corporation. Color cathode ray tube having an improved color phospho screen. 4,689,520, 8-25-87, Cl. 313-468.000.
- Kuboshima, Yasuyuki, to Florex Co., Ltd. Safety lockable containe 4,676,388, 6-30-87, Cl. 215-217.000.
- Kubota, Akihiro; Aoki, Tsuyoshi; Ono, Michio; and Sugiura, Rikio, t Fujitsu Limited. Resin-molded semiconductor device. 4,698,66 10-6-87, Cl. 357-70.000.
- Kubota, Akira: *See*—
  - Wanibuchi, Hiroshi; and Kubota, Akira, 4,638,704, Cl. 83-628.00
- Kubota, Atsushi; Tanishi, Shimosuke; Sasaki, Shinichi; Kimura Akiyoshi; and Koike, Michiro, to Canon Kabushiki Kaisha. Imag forming apparatus and a process unit for use in the same. 4,708,45 11-24-87, Cl. 355-3.00R.
- Kubota, Hirohisa: *See*—
  - Itagaki, Takaharu; Kusano, Hiroshi; Miyata, Eiji; and Kubota Hirohisa, 4,696,745, Cl. 210-502.100.
- Kubota, Hiromitsu: *See*—
  - Kato, Hiroshi; and Kubota, Hiromitsu, 4,636,887, Cl. 360-85.00
- Kubota, Hironori: *See*—
  - Ueno, Masao; and Kubota, Hironori, 4,666,919, Cl. 514-309.00
- Kubota, Hisashi: *See*—
  - Sekine, Yoshitada; Yokota, Fumiki; and Kubota, Hisashi, 4,715,70 Cl. 356-237.000.
- Kubota, Hitoshi, to Nissan Motor Co., Ltd. Brake booster. 4,633,7 1-6-87, Cl. 91-32.000.
- Kubota, Hitoshi; and Nakagawa, Keiji, to Nissan Motor Co., Ltd.; an Nippon Air Brake Co., Ltd. Liquid pressure operated braking system 4,658,942, 4-21-87, Cl. 192-13.00A.
- Kubota, Hitoshi; and Oda, Hideaki, to Nissan Motor Company, Limited. Electronic control system for automotive brake system fo controlling brake pressure in accordance with vehicular loa 4,659,150, 4-21-87, Cl. 303-6.00C.
- Kubota, Hitoshi; and Oda, Hideaki, to Nissan Motor Company, Limited. Electronic control system for automotive brake system fo controlling braking pressure distribution in front and rear whe cylinders depending upon vehicular load condition. 4,664,4 5-12-87, Cl. 303-22.00R.
- Kubota, Hitoshi: *See*—
  - Tobisawa, Yoshio; Kubota, Hitoshi; and Nakamura, Masami 4,664,016, Cl. 91-369.00A.
- Kubota, Ichiro; and Toyoshima, Masakatsu, to Sony Corporatio Bidirectional digital signal communication system. 4,635,274, 1-6-8 Cl. 375-1.000.
- Kubota, Katsuzo; Nakai, Masayuki; and Ono, Shigeyoshi, to Idemits Kosan Company Limited. Process for modification of coal. 4,645,51 2-24-87, Cl. 44-10.00H.
- Kubota, Kazufumi, to Fuji Photo Film Co., Ltd. Method of reading ba code. 4,638,170, 1-20-87, Cl. 250-566.000.
- Kubota, Kazufumi: *See*—
  - Kogane, Mikio; Suzuki, Kenji; Kito, Eiichi; Kubota, Kazufumi; and Tokuda, Kanji, 4,639,118, Cl. 355-29.000.
- Kubota, Kazuhiro; and Kondo, Seiji, to Yamaha. Emergency device fo diesel engines. 4,685,431, 8-11-87, Cl. 123-198.0DB.
- Kubota, Kazuhisa; and Yasuda, Shigekazu, to Kabushiki Kaisha Toka Rika Denki Seisakusho. Contact pattern observation apparatus 4,681,435, 7-21-87, Cl. 356-71.000.
- Kubota, Kazuhisa: *See*—
  - Mizuno, Shigeo; Kubota, Kazuhisa; and Ichikawa, Takafum 4,674,352, Cl. 74-484.00R.
- Kubota, Keiichi: *See*—
  - Naemura, Shohei; and Kubota, Keiichi, 4,699,498, Cl. 355-3.00R.
- Kubota, Kenji: *See*—
  - Gion, Hidenori; Kubota, Kenji; Nakamura, Michihiro; and Yano Makoto, 4,641,249, Cl. 364-496.000.
- Kubota, Koji: *See*—
  - Yokozeki, Kenzo; and Kubota, Koji, 4,650,759, Cl. 435-128.000
  - Yokozeki, Kenzo; and Kubota, Koji, 4,711,846, Cl. 435-70.000
- Kubota, Kunio: *See*—
  - Mitarai, Akira; and Kubota, Kunio, 4,688,173, Cl. 364-405.000
- Kubota, Ltd.: *See*—
  - Fukui, Tetsu, 4,669,559, Cl. 180-6.240.
  - Hasegawa, Shigekazu; and Fukui, Tetsu, 4,637,269, Cl. 74-335.000
  - Hasegawa, Shigekazu; Machida, Satoshi; and Oota, Yoshim 4,711,329, Cl. 192-3.570.
  - Hashigaki, Yasunori; and Umeda, Tatsutoshi, 4,664,228, Cl 184-6.500.
  - Hashimoto, Takao, 4,647,083, Cl. 285-321.000.
  - Horikawa, Tokio; Sawai, Mitsuaki; Fujioka, Hisatake; Kawashima Nobumasa; and Yanagawa, Nobuhide, 4,660,668, Cl. 180-19.100
  - Ikebuchi, Iwao; Fuse, Kazuo; and Ganse, Akira, 4,660,776, Cl 241-53.000.
  - Ishimori, Shoso; Ishiizumi, Seiichi; Ishida, Mikio; and Itatani Hiroshi, 4,674,287, Cl. 60-416.000.
  - Ishimori, Shoso; Ishiizumi, Seiichi; and Ishida, Mikio, 4,691,802, Cl 180-291.000.
  - Ishimori, Shozo; Ishida, Mikio; Miki, Hiroyuki; Ishiizumi, Seiichi and Hirata, Kazuo, 4,696,365, Cl. 180-233.000.
  - Ito, Katsumi; Okuyama, Shigeaki; Nakamura, Norimi; Kuroiwa Yoshizo; Fujiwara, Kouji; Nakamura, Kunisuke; Fujiwara Osami; Yoshida, Jituo; and Kobayashi, Mitsugu, 4,671,376, Cl 180-249.000.
  - Katayama, Takao, 4,693,064, Cl. 56-202.000.

Kishida, Hiroshi, 4,663,712, Cl. 364-424.000.

Miki, Hiroyuki; Nakata, Yasuo; Hirata, Kazuo; Ishizumi, Seiichi; and Funahashi, Genichi, 4,669,565, Cl. 180-89.120.

Morita, Shigeru; and Yanagawa, Nobuhide, 4,692,086, Cl. 414-635.000.

Mouri, Akihiko; and Ikeda, Kazushige, 4,680,929, Cl. 60-368.000.

Sakano, Kenji; Aketa, Masahiro; Ikeshima, Tetsuro; Hataura, Kiyoshi; Sakanaka, Hiroo; and Yamashita, Masahiro, 4,703,729, Cl. 123-308.000.

Sanpei, Keiichi; Satoh, Yoshitaka; and Ohashi, Yoshimitsu, 4,669,549, Cl. 172-112.000.

Shinno, Yoshio, 4,669,437, Cl. 123-376.000.

Sugahara, Kooichi; Shinno, Yoshio; and Kimoto, Kiyoharu, 4,712,519, Cl. 123-52.00M.

Tanaka, Tomiho; Suzuki, Takashi; and Watashi, Mitsuo, 4,685,341, Cl. 74-15.820.

Tatsumi, Hiroshi, 4,638,157, Cl. 250-236.000.

Terada, Takashi, 4,663,925, Cl. 56-328.00R.

Tone, Masatsugu, 4,677,866, Cl. 74-15.860.

Tsuji, Kazuhiko; and Tsutsui, Youji, 4,646,778, Cl. 137-270.000.

Ujita, Tsugunobu; and Takahashi, Seiichi, 4,714,130, Cl. 180-262.000.

Umeda, Tatsutoshi; Tani, Yoshio; Kaai, Takeshi; Nakano, Keiichi; and Izui, Yoshio, 4,633,824, Cl. 123-41.650.

Umeda, Tatsutoshi; Tani, Yoshio; Kaai, Takeshi; Nakano, Keiichi; and Izui, Yoshio, 4,686,946, Cl. 123-90.410.

Yano, Naomichi; Ito, Hajime; and Tanaka, Shigeru, 4,681,154, Cl. 165-47.000.

Yoshii, Takashi, 4,660,673, Cl. 180-334.000.

Kubota, Makoto: *See—*

Yamauchi, Kazushi; Ogata, Muneyuki; Kobayashi, Tomio; Kubota, Makoto; and Kumura, Tatsuo, 4,671,828, Cl. 148-309.000.

Yamauchi, Kazushi; Ogata, Muneyuki; Kobayashi, Tomio; Kubota, Makoto; and Kumura, Tatsuo, 4,683,012, Cl. 148-301.000.

Kubota, Masaharu: *See—*

Ohgami, Masaaki; Yasuda, Hiroki; and Kubota, Masaharu, 4,697,564, Cl. 123-440.000.

Kubota, Masao. Twist drill. 4,688,972, 8-25-87, Cl. 408-230.000.

Kubota, Masato: *See—*

Sasaki, Torahiko; Sato, Kazuo; Ohkawa, Masahiro; Suzuki, Yoshihiro; Kubota, Masato; Nakao, Hatsuo; and Tange, Kyoichi, 4,696,870, Cl. 429-14.000.

Kubota, Masayoshi: *See—*

Matsuzaki, Harumi; Kubota, Masayoshi; Ebara, Katsuya; Takahashi, Sankichi; and Kuroiwa, Minoru, 4,698,153, Cl. 210-192.000.

Kubota, Mitsuru; and Iwase, Isao, to Kabushiki Kaisha Toshiba. Highway toll collecting system. 4,652,729, 3-24-87, Cl. 235-384.000.

Kubota, Mitsuru; and Amita, Kozo, to Kabushiki Kaisha Toshiba. Apparatus for collecting toll. 4,682,170, 7-21-87, Cl. 340-928.000.

Kubota, Naohiro; and Nishimura, Atsushi, to Adeka Argus Chemical Co., Ltd. Stabilizer compositions for synthetic resins imparting improved light stability. 4,681,905, 7-21-87, Cl. 524-91.000.

Kubota, Naohiro; and Nishimura, Atsushi, to Adeka Argus Chemical Co., Ltd. Polyacetal resin compositions having improved resistance to deterioration when exposed to light and containing alkylidene bis(benzotriazolyl phenols). 4,684,679, 8-4-87, Cl. 524-91.000.

Kubota, Naohiro; Shibata, Toshihiro; and Nishimura, Atsushi, to Adeka Argus Chemical Co., Ltd. Thermosetting synthetic resin lacquer compositions having improved light stability. 4,684,680, 8-4-87, Cl. 524-91.000.

Kubota, Osamu: *See—*

Miyauchi, Terukatsu; Ikeda, Yoneichi; Tashiro, Masaharu; and Kubota, Osamu, 4,668,378, Cl. 208-127.000.

Kubota, Reiko: *See—*

Tahara, Yoshiyuki; Komatsu, Yasuhiro; Koyama, Hiroyasu; Kubota, Reiko; Yamaguchi, Teruhito; and Takahashi, Toshihiro, 4,645,862, Cl. 564-370.000.

Tahara, Yoshiyuki; Komatsu, Yasuhiro; Koyama, Hiroyasu; Kubota, Reiko; Yamaguchi, Teruhito; and Takahashi, Toshihiro, 4,658,063, Cl. 564-367.000.

Tahara, Yoshiyuki; Komatsu, Yasuhiro; Koyama, Hiroyasu; Kubota, Reiko; Yamaguchi, Teruhito; and Takahashi, Toshihiro, 4,700,002, Cl. 564-367.000.

Kubota, Sadao: *See—*

Kaizaki, Kazuhiro; Kubota, Sadao; Harada, Hiroshi; and Matsuura, Shigeo, 4,636,863, Cl. 358-167.000.

Kubota, Satoshi; Yoshida, Tetsuo; and Oamatsu, Hideki, to Fuji Photo Film Co., Ltd. Direct positive photographic light-sensitive materials. 4,643,965, 2-17-87, Cl. 430-567.000.

Kubota, Shigeo: *See—*

Kato, Yasuo; Harada, Kunio; Kubota, Shigeo; Watanabe, Yoshio; and Murayama, Seiichi, 4,715,054, Cl. 378-122.000.

Kubota, Shigeru; Kanou, Shoji; and Kubo, Masahiro, to Nitto Kogyo Kabushiki Kaisha. Method of mounting electronic parts on the predetermined positions of a printed circuit board. 4,670,981, 6-9-87, Cl. 29-840.000.

Kubota, Shinichi: *See—*

Asakura, Masahiko; Kawanabe, Tomohiko; Ueda, Masahiro; Kubota, Shinichi; Kushida, Noritaka; and Matsumoto, Yukihiro, 4,694,803, Cl. 123-440.000.

Kubota, Shinya: *See—*

Kajioka, Yasuo; Komine, Tomio; Kadowaki, Hitoshi; Matsuda, Shigeyoshi; Yugami, Yoshinori; Kubota, Shinya; Takahashi, Yoshio; Shimada, Hiroshi; and Kurata, Nobutaka, 4,709,899, Cl. 249-20.000.

Kubota, Takao; and Uji, Yasuo, to Sun Seiki Co., Ltd. Automatic film processor arrangement. 4,690,535, 9-1-87, Cl. 354-322.000.

Kubota, Takayuki. Police baton with hooked crosshandle. 4,703,932, 11-3-87, Cl. 273-84.00R.

Kubota, Takeshi: *See—*

Miyoshi, Kunisuke; Shimoyama, Yoshiaki; and Kubota, Takeshi, 4,661,174, Cl. 148-111.000.

Miyoshi, Kunisuke; Shimoyama, Yoshiaki; and Kubota, Takeshi, 4,666,534, Cl. 148-111.000.

Yamasaki, Nakamichi; Kubota, Takeshi; Hoshino, Yoshihiro; and Tanuma, Hiroyuki, 4,661,291, Cl. 252-629.000.

Kubota, Tatsuya; and Takanashi, Kenji, to Sony Corporation. Video signal control circuit. 4,698,676, 10-6-87, Cl. 358-140.000.

Kubota Tekko Kabushiki Kaisha: *See—*

Yano, Naomichi; Ueno, Tadatsugu; and Tsuboi, Shigeru, 4,715,978, Cl. 252-70.000.

Kubota, Teruo; and Tasaki, Takashi, to Yamato Denki Co., Ltd. Push-in terminal system. 4,673,232, 6-16-87, Cl. 439-441.000.

Kubota, Tetsuhiro: *See—*

Iizuka, Kinji; Kamijo, Tetsuhide; Kubota, Tetsuhiro; Akahane, Kenji; Umeyama, Hideaki; and Kiso, Yoshiaki, 4,656,269, Cl. 544-139.000.

Iizuka, Kinji; Kamijo, Tetsuhide; Kubota, Tetsuhiro; Akahane, Kenji; Umeyama, Hideaki; and Kiso, Yoshiaki, 4,711,958, Cl. 544-139.000.

Kubota, Tetsuo: *See—*

Nomura, Hiroshi; and Kubota, Tetsuo, 4,658,297, Cl. 358-174.000.

Kubota, Tomiyasu: *See—*

Sekiguchi, Yoshishige; and Kubota, Tomiyasu, 4,703,492, Cl. 373-91.000.

Kubota, Yasuhiko: *See—*

Matsui, Isamu; Uchida, Hiroshi; Otoshima, Hiroo; Kubota, Yasuhiko; and Masai, Tetsuji, 4,681,271, Cl. 242-18.00R.

Kubota, Yoshitaka: *See—*

Matsumoto, Yoshihiro; Kubota, Yoshitaka; Tsukuma, Koji; and Tsukidate, Takaaki, 4,666,467, Cl. 51-309.000.

Kubota, Yousuke, to Kabushiki Kaisha Toshiba. Electromagnetic flow meter. 4,679,442, 7-14-87, Cl. 73-861.120.

Kubota, Yuichi: *See—*

Isobe, Yukihiro; Tanaka, Kazushi; Nishimatsu, Masaharu; Shinoura, Osamu; and Kubota, Yuichi, 4,670,340, Cl. 428-339.000.

Nakayama, Masatoshi; Morita, Haruyuki; Kubota, Yuichi; and Tsuchiya, Keiko, 4,699,847, Cl. 428-522.000.

Nishimatsu, Masaharu; Ide, Toshiaki; Saito, Yoshiaki; and Kubota, Yuichi, 4,637,963, Cl. 428-694.000.

Ohtsuki, Akira; Konno, Ryozo; Kanno, Nobumori; Sugai, Makio; Mihoya, Takashi; Kubota, Yuichi; Nishimatsu, Masaharu; Isobe, Yukihiro; Tanaka, Kazushi; and Shinoura, Osamu, 4,708,909, Cl. 428-425.900.

Shimada, Shigeru; Nishimatsu, Masaharu; Arioka, Hiroyuki; and Kubota, Yuichi, 4,678,708, Cl. 428-336.000.

Kubota, Yutaka: *See—*

Yoshimoto, Takeo; Umemoto, Mitsumasa; Igarashi, Keiichi; Kubota, Yutaka; Yamazaki, Hideo; Enomoto, Yuji; and Yanagita, Hirohisa, 4,692,466, Cl. 514-604.000.

Kubota, Yuzuru: *See—*

Okuyama, Toshiaki; Matsui, Takayuki; Fujimoto, Noboru; and Kubota, Yuzuru, 4,680,526, Cl. 318-802.000.

Kuboto, Tetsumaru, to Olympus Optical Co., Ltd. Endoscope device with tool channel. 4,706,656, 11-17-87, Cl. 128-6.000.

Kuboyama, Haruhiro: *See—*

Yamamoto, Junko; Fujimoto, Kyohei; Hirasawa, Kazuhiro; and Kuboyama, Haruhiro, 4,701,763, Cl. 343-700.0MS.

Kuboyama, Kiyoshi, to Asahi Screen Process Insatsu Kabushiki Kaisha. Hot stamping method. 4,645,555, 2-24-87, Cl. 156-234.000.

Kuboyama, Morio: *See—*

Hashimoto, Yoshiyuki; Toida, Tomohiro; Sekine, Kazunori; Saito, Minoru; Kawashima, Takuji; and Kuboyama, Morio, 4,645,667, Cl. 424-92.000.

Kuboyama, Nobuyoshi. Rotary means for use as a heat source. 4,678,400, 7-7-87, Cl. 415-199.400.

Kubozoe, Morioki: *See—*

Nomura, Setsuo; Kubozoe, Morioki; and Isakozawa, Shigeto, 4,698,503, Cl. 250-311.000.

Kubozuka, Takao, to Nissan Motor Co., Ltd. Cooling system for automotive engine or the like. 4,662,316, 5-5-87, Cl. 123-41.150.

Kubozuka, Takao: *See—*

Hirano, Yoshinori; Kubozuka, Takao; and Ito, Yoji, 4,669,426, Cl. 123-41.150.

Hirano, Yoshinori; and Kubozuka, Takao, 4,694,784, Cl. 123-41.120.

Kubrak, Dennis M.: *See—*

Musser, John H.; Kubrak, Dennis M.; and Kreft, Anthony F., III, 4,675,405, Cl. 546-172.000.

Kubushiki Kaisha Toyota Chuo Kenkyusho: *See—*

Sumiyoshi, Masaharu; and Matsunari, Fumio, 4,644,821, Cl. 74-689.000.

Kubuto, Ltd.: *See—*

Obe, Mitsuhiko; Kawai, Isamu; Nakata, Masaru; Oisi, Katumi; Shimizu, Yosaburo; Fukawatase, Katsushi; Nishikawa, Takao; Hinoue, Kenji; Arisawa, Susumu; Sato, Kenichi; Kurata, Yasunori; and Sato, Kengo, 4,650,242, Cl. 296-190.000.

Kucera, Clare H., to Dowell Schlumberger Incorporated. Fracturing of subterranean formations. 4,683,068, 7-28-87, Cl. 252-8.551.

Kucera, Clare H., to Dowell Schlumberger Incorporated. Fracturing of subterranean formations. 4,692,254, 9-8-87, Cl. 252-8.551.

Kucera, Clare H.: *See—*
  Baranet, Sandra E.; Hodge, Richard M.; and Kucera, Clare H., 4,686,052, Cl. 252-8.551.

Kucera, Frank C., to J. I. Case Company. Phasing circuit for serially connected hydraulic cylinders. 4,655,031, 4-7-87, Cl. 56-11.900.

Kucera, Henry, to Houghton Mifflin Company. Textual database system using skeletonization and phonetic replacement to retrieve words matching or similar to query words. 4,674,066, 6-16-87, Cl. 364-900.000.

Kuchar, Dennis W. Ice fishing tip-up apparatus. 4,704,816, 11-10-87, Cl. 43-17.000.

Kuchar, Franz: *See—*
  Hoogendoorn, Abraham; and Kuchar, Franz, 4,636,874, Cl. 360-10.200.

Kuchar, Miroslav; Brunova, Bohumila; Grimova, Jaroslava; and Maturova, Eva, to SPOFA, spojene podniky pro zdravotnickou vyrobu. Omega-(2,4-dihalobiphenylyl) oxo alkanoic acids. 4,683,331, 7-28-87, Cl. 562-459.000.

Kucharczyk, Peter P.; and Hahn, Richard. Combination planing and finishing tool. 4,675,975, 6-30-87, Cl. 29-566.000.

Kucheck, Leo, to Label-Aire Inc. Method and apparatus for sensing sheet-like elements. 4,685,982, 8-11-87, Cl. 156-64.000.

Kuchenmeister, Rolf: *See—*
  Schafer, Walter; Muller, Hanns P.; Kuchenmeister, Rolf; and Sickert, Armin, 4,707,386, Cl. 427-386.000.

Kuchenreuther, Wieland: *See—*
  Mecke, Norbert; Krauter, Heinrich; and Kuchenreuther, Wieland, 4,675,063, Cl. 156-234.000.

Kucher, Alexander; Krasnov, Igor; and Bromberg, Yury. Emergency evacuation system for high-rise buildings. 4,640,384, 2-3-87, Cl. 182-51.000.

Kucherer, Helmut, to Weidenhammer Packungen KG GmbH & Co. Fiber can with reinforcing crimped metal closure. 4,637,543, 1-20-87, Cl. 229-5.600.

Kuchheuser, Werner: *See—*
  Lohr, Karl-Heinz; Kohberg, Ewald; Kuchheuser, Werner; and Dorhmann, Wolfgang, 4,641,872, Cl. 293-133.000.

Kuchii, Toshiyuki. Transistor inverter device for fluorescent lamp. 4,709,189, 11-24-87, Cl. 315-209.00R.

Kuchinski, Joseph; Hankinson, Risdon W.; and Rosvold, Charles J., to Phillips Petroleum Company. Apparatus for the recovery of oil from shale. 4,689,120, 8-25-87, Cl. 202-117.000.

Kuchinsky, Peter, Jr. Combination beach caddy and beach chair. 4,659,142, 4-21-87, Cl. 297-118.000.

Kuchirka, Peter J.: *See—*
  DeMario, Edmund E.; Boyle, Raymond F.; and Kuchirka, Peter J., 4,692,302, Cl. 376-439.000.

Kuchler, Heinrich, to Siemens Aktiengesellschaft. Conference circuit for digital communication systems. 4,635,252, 1-6-87, Cl. 370-62.000.

Kuchnir, Moyses; and Mills, Frederick E., to United States of America, Energy. Beam current sensor. 4,687,987, 8-18-87, Cl. 324-71.300.

Kuchuk-Yatsenko, Sergei I.; Krivenko, Valery G.; Gorishnyakov, Alexei I.; Bogorsky, Mikhail V.; and Lazebny, Ivan L., to Institute Elektrosvarki Imeni E.O. Patona Akademii Nauk Ukrainskoi SSR. Control device for flash-butt resistance welding machine. 4,686,346, 8-11-87, Cl. 219-110.000.

Kuck, Gerd: *See—*
  Plies, Erich; and Kuck, Gerd, 4,684,808, Cl. 250-396.00R.

Kuck, Jay L.; Simpkins, Terry J.; and Harris, David P., to Midmark Corporation. Side rail assembly for a wheeled stretcher. 4,653,129, 3-31-87, Cl. 5-430.000.

Kuck, Jay L., to Midmark Corporation. Angular tilt control mechanism for a wheeled stretcher. 4,691,393, 9-8-87, Cl. 5-62.000.

Kuck, John H., to United States of America, Air Force. Automatic attenuator for sonobuoys. 4,691,305, 9-1-87, Cl. 367-3.000.

Kuck, Karl-Heinz: *See—*
  Oeckl, Siegfried; Reinecke, Paul; Brandes, Wilhelm; Kuck, Karl-Heinz; Paulus, Wilfried; and Genth, Hermann, 4,661,632, Cl. 564-217.000.
  Salzburg, Herbert; Hajek, Manfred; Hanssler, Gerd; and Kuck, Karl-Heinz, 4,683,233, Cl. 514-253.000.

Kuck, Mark A.: *See—*
  Marek, Henry S.; Michel, Christian G.; Baumann, John A.; and Kuck, Mark A., 4,670,241, Cl. 423-322.000.
  Michel, Christian G.; Schachter, Rozalie; Kuck, Mark A.; Baumann, John A.; and Raccah, Paul M., 4,713,192, Cl. 252-62.30R.

Kuckens, Alexander; and Kohl, Horst, to Technica Entwicklungsgesellschaft mbH & Co. KG. Apparatus for impregnating water with CO_2 using a stepped channel with multiple gas inlets. 4,675,165, 6-23-87, Cl. 422-261.000.

Kuckens, Alexander; and Kohl, Horst, to Technica Entwicklungsgesellschaft mbH & Co. KG. Method for qualitatively and quantitatively improving the fertilizing or leaf dressing of cultivated and ornamental plants in greenhouses, outdoors or agriculture. 4,689,067, 8-25-87, Cl. 71-3.000.

Kuckes, Arthur F., to Vector Magnetics, Inc. Method for determining the location of a deep-well casing by magnetic field sensing. 4,700,142, 10-13-87, Cl. 324-346.000.

Kucsera, Gabor: *See—*
  Czeller, Bela; Kozak, Janos; Kucsera, Gabor; Nadudvari, Jozsef; and Nagyistok, Ferenc, 4,647,375, Cl. 210-267.000.

Kucza, Iosif. Apparatus for rapid cooling of containers. 4,715,195, 12-29-87, Cl. 62-376.000.

Kuczkowski, Joseph A.: *See—*
  Bergomi, Angelo; and Kuczkowski, Joseph A., 4,663,455, Cl. 544-85.000.
  Sturm, Budd H.; and Kuczkowski, Joseph A., 4,707,300, Cl. 252-404.000.

Kud, Alexander: *See—*
  Fikentscher, Rolf; Hahn, Erwin; Kud, Alexander; and Oftring, Alfred, 4,652,669, Cl. 558-441.000.
  Fikentscher, Rolf; Hahn, Erwin; Kud, Alexander; and Oftring, Alfred, 4,654,432, Cl. 558-357.000.

Kudara, Yoshifumi: *See—*
  Takahashi, Akira; Kudara, Yoshifumi; Shoji, Sadao; and Nakatsuka, Saburo, 4,662,533, Cl. 220-209.000.

Kuder, James E.; and Chen, John C., to Celanese Corporation. Chemical modification of preformed polybenzimidazole semipermeable membrane. 4,634,530, 1-6-87, Cl. 210-500.230.

Kuder, James E., to Celanese Corporation. Recording medium comprising a microporous polymer exhibiting enhanced signal to noise ratio. 4,636,804, 1-13-87, Cl. 346-1.100.

Kudermann, Gerhard: *See—*
  Brown, Neil; Kudermann, Gerhard; and Fuchs, Manfred, 4,668,486, Cl. 423-130.000.

Kudert, Frederick G.; Latreille, Maurice G.; McHenry, Robert J.; Nahill, George F.; Pfutzenreuter, Henry, III; Tennant, William A.; Tung, Thomas T.; and Vella, John, Jr., to American Can Company. Apparatus for injection molding and injection blow molding mult layer articles. 4,712,990, 12-15-87, Cl. 425-130.000.

Kudinov, Gennady A.; Lysenko, Evgeny E.; Ioshpa, Vladimir G.; Tolochko, Alexei I.; Shokul, Anatoly A.; and Nekrasov, Ignaty N., t Vnipichermetenergoochistka. Cooling plate for metallurical furnaces. 4,676,487, 6-30-87, Cl. 266-194.000.

Kudishevich, Anatoly: *See—*
  Elliott, Franklin E.; and Kudishevich, Anatoly, 4,703,406, Cl. 362-365.000.

Kudla, David P.: *See—*
  Licata, Joseph P.; and Kudla, David P., 4,672,709, Cl. 15-250.2

Kudlicka, Mark L.: *See—*
  Cranston, Albert E., III; and Kudlicka, Mark L., 4,697,510, Cl. 100-14.000.

Kudo, Ichiro: *See—*
  Ishiyama, Kazuo; Yoshida, Masashi; Suzuki, Isao; Kudo, Ichir Otaki, Akira; and Okuyama, Noboru, 4,671,499, Cl. 266-275.0

Kudo, Jun: *See—*
  Kakimoto, Seizo; Kudo, Jun; and Koba, Masayoshi, 4,655,850, C 148-1.500.

Kudo, Katsuyoshi; Nagatomo, Katsuaki; Yamamoto, Hideji; Nishita, Katsuyasu; and Ogawa, Yoshifumi, to Hitachi, Ltd. Plasma treating method and apparatus therefor. 4,664,767, 5-12-87, Cl. 204-164.000.

Kudo, Kazunori, to Kabushiki Kaisha Tokyo Fashion. Swimsu 4,654,894, 4-7-87, Cl. 2-67.000.

Kudo, Kazunori: *See—*
  Sakai, Shigeru; and Kudo, Kazunori, 4,716,576, Cl. 375-5.000.

Kudo, Koji: *See—*
  Kodama, Takuma; Takahashi, Kenji; Ishibashi, Shizuka; Kudo, Koji; Masuda, Yukihiro; Hombaugh, Masanori; Miyoshi, Osamu; and Yoshiwara, Kazuhisa, 4,649,421, Cl. 358-51.000.
  Maruyama, Masanori; Takahashi, Kenji; Kudo, Koji; Hombaugh, Masanori; and Nagahara, Shusaku, 4,716,468, Cl. 358-219.000.
  Masuda, Yukihiro; Ishibashi, Shizuka; Takahashi, Kenji; Kodama, Takuma; Kudo, Koji; and Hombough, Masanori, 4,647,822, C 315-386.000.
  Satou, Kazuhiro; Kudo, Koji; Maruyama, Masanori; Mimura, Itar and Nagahara, Shusaku, 4,701,679, Cl. 315-383.000.

Kudo, Mitsuhiro; Takayama, Shinji; Sawada, Yoshizo; and Ogat Yasunobu, to Hitachi Metals, Ltd.; and Hitachi, Ltd. Amorpho alloys. 4,668,310, 5-26-87, Cl. 148-304.000.

Kudo, Mitsuhiro: *See—*
  Inagoya, Osamu; Fujiwara, Hideo; Tottori, Takeshi; Yaman Minoru; Kumasaka, Noriyuki; Otomo, Shigekazu; Kudo, Mi suhiro; Morikawa, Juiti; Ishihara, Kiyoshi; Usui, Akira; an Hayashi, Masashi, 4,701,819, Cl. 360-122.000.
  Kumasaka, Noriyuki; Fujiwara, Hideo; Otomo, Shigekazu; Yam shita, Takeo; Takayama, Shinji; Saito, Noritoshi; and Kud Mitsuhiro, 4,656,547, Cl. 360-126.000.

Kudo, Mitsuru: *See—*
  Nakagawa, Isao; Yamamoto, Akihiro; Hirose, Koichi; Oka Yoshinori; and Kudo, Mitsuru, 4,634,995, Cl. 330-261.000.

Kudo, Osamu: *See—*
  Hattori, Torao; Takagi, Yasushi; Tange, Akira; Umetsu, Chiha Kudo, Osamu; Kurimoto, Kiyoshi; and Kitamura, R 4,698,050, Cl. 474-242.000.

Kudo, Satoshi, to Hitachi, Ltd. Fabricating an integrated circuit dev having a vertical pnp transistor. 4,641,419, 2-10-87, Cl. 29-591.00

Kudo, Shinichi: *See—*
  Maeda, Yukio; and Kudo, Shinichi, 4,664,945, Cl. 427-96.000.
  Maeda, Yukio; Kudo, Shinichi; and Saeki, Keiji, 4,692,351, 427-196.000.

Kudo, Shozo, to Ricoh Company, Ltd. Data communicating meth with capability of full-duplex communication over two-wire circ 4,653,044, 3-24-87, Cl. 370-29.000.

Kudo, Shozo, to Ricoh Company, Ltd. Communication terminal ap ratus with data format conversion capability. 4,672,459, 6-9-87, 358-257.000.

Kudo, Sinji, to Stanley Electric Co., Ltd. Pulse absorption circuit power source circuit. 4,641,230, 2-3-87, Cl. 363-56.000.

Kudo, Sinji, to Stanley Electric Co., Ltd. Molded electronic circuit device. 4,707,763, 11-17-87, Cl. 361-386.000.

Kudo, Takabumi: *See—*
  Ogawa, Masaki; and Kudo, Takabumi, 4,711,285, Cl. 152-458.000.

Kudo, Takashi: *See—*
  Honda, Kazuo; Horii, Yoshiaki; Hiramatsu, Kinuo; Nakamoto, Shuhei; and Kudo, Takashi, 4,678,054, Cl. 180-225.000.
  Mochida, Ei; Shinkai, Hiroyuki; Kudo, Takashi; and Sugawara, Toshiyuki, 4,690,908, Cl. 436-518.000.

Kudo, Takeo: *See—*
  Igarashi, Masaaki; Okada, Yasutaka; Yoshikawa, Kunihiko; and Kudo, Takeo, 4,652,315, Cl. 148-12.70R.

Kudo, Takumi, to Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Supporting structure for fuel feeding gun in fuel tank. 4,700,757, 10-20-87, Cl. 141-311.00R.

Kudo, Tetsuichi; Kawamura, Go; and Ishikawa, Akira, to Hitachi, Ltd. Heteropoly acid containing carbon as hetero atom. 4,634,585, 1-6-87, Cl. 423-419.00R.

Kudo, Tetsuichi; Kawamura, Go; and Ishikawa, Akira, to Hitachi, Ltd. Solid electrolyte. 4,699,851, 10-13-87, Cl. 429-33.000.

Kudo, Tetsuichi: *See—*
  Hiratani, Masahiko; Miyauchi, Katsuki; Ito, Yukio; Kanehori, Keiichi; Kirino, Fumiyoshi; and Kudo, Tetsuichi, 4,645,726, Cl. 429-191.000.

Kudo, Toshiyuki: *See—*
  Ito, Kazuo; Kudo, Toshiyuki; and Hama, Ritsuo, 4,697,074, Cl. 250-211.00R.

Kudo, Yasuichi, to Sanyo Special Steel Company, Limited. Rotating-probe defect detecting device. 4,706,022, 11-10-87, Cl. 324-243.000.

Kudo, Yoshihiko: *See—*
  Miyazaki, Masayuki; Kudo, Yoshihiko; Takahashi, Seizi; Kobayashi, Chiharu; and Sawaki, Akira, 4,659,208, Cl. 355-8.000.

Kudo, Yoshihisa, to NEC Corporation. Apparatus and method for generating multi-digit codes. 4,706,085, 11-10-87, Cl. 342-825.560.

Kudo, Yoshimichi: *See—*
  Miura, Yoshio; Takayama, Chiharu; Fujishima, Tooru; Oku, Masuo; Kawashima, Tooru; and Kudo, Yoshimichi, 4,669,072, Cl. 369-44.000.

Kudo, Yoshinobu: *See—*
  Fukushima, Akira; and Kudo, Yoshinobu, 4,671,626, Cl. 350-466.000.

Kudo, Yoshio; Kumagai, Hirohiko; Yamaguchi, Katsunobu; and Wakamatsu, Saburo, to Showa Denko Kabushiki Kaisha. Laser-light shield and method for shielding human body from laser light. 4,650,287, 3-17-87, Cl. 350-322.000.

Kudo, Yoshio: *See—*
  Honda, Tatsutoku; Endo, Michiyuki; Wakamatsu, Saburo; and Kudo, Yoshio, 4,682,855, Cl. 350-276.00R.

Kudoh, Eiichi: *See—*
  Hashizume, Masatora; Kudoh, Eiichi; Fujiwara, Setuzo; and Shiomi, Hitomi, 4,707,893, Cl. 24-446.000.

Kudoh, Shinichi; Kabeshita, Akira; and Murakami, Syuichi, to Matsushita Electric Industrial Co., Ltd. Method of forming thick film circuit patterns with a sufficiently wide and uniformly thick strip. 4,656,048, 4-7-87, Cl. 427-8.000.

Kudoh, Yasuo: *See—*
  Yoshimura, Susumu; Kudoh, Yasuo; Tsuchiya, Soji; Kojima, Toshikuni; and Takahashi, Shohzoh, 4,679,124, Cl. 361-433.000.

Kudou, Makoto: *See—*
  Ohtake, Yasuhisa; Kudou, Makoto; and Sengoku, Yasushi, 4,662,984, Cl. 156-637.000.

Kudou, Masayuki: *See—*
  Setoguti, Syohati; Nakatake, Yoshiteru; Uehara, Mitsuru; and Kudou, Masayuki, 4,692,835, Cl. 361-104.000.

Kudou, Takenori, to Nippon Steel Corporation. Lance supporting apparatus. 4,695,042, 9-22-87, Cl. 266-226.000.

Kuebler, Siegfried. Racket having thickened shaft portion. 4,664,380, 5-12-87, Cl. 273-73.00C.

Kuech, Thomas F.: *See—*
  Hovel, Harold J.; and Kuech, Thomas F., 4,708,883, Cl. 427-38.000.

Kuechenmeister, Rodney D.: *See—*
  Murphy, Robert E.; Ballard, Gary R.; and Kuechenmeister, Rodney D., 4,694,953, Cl. 198-627.000.

Kuehfuss, Runwalt, to De La Rue Giori S.A. Method for the manufacture of freshly printed security papers cut to format and automatic cutting machine for carrying out the method. 4,653,399, 3-31-87, Cl. 101-426.000.

Kuehl, Guenter H., to Mobil Oil Corporation. Preparation of catalyst composition comprising a boron containing crystalline material having the structure of zeolites ZSM-5, ZSM-11, ZSM-12, Beta or Nu-1. 4,661,467, 4-28-87, Cl. 502-202.000.

Kuehl, Guenter H.: *See—*
  Chu, Pochen; and Kuehl, Guenter H., 4,665,043, Cl. 502-71.000.

Kuehl, Ulrich: *See—*
  Thies, Peter W.; David, Samuel; Kuehl, Ulrich; Buschmann, Gerd; and Flecker, Peter, 4,714,709, Cl. 514-414.000.

Kuehn, Hans, to Deutsche Thomson Brandt GmbH. Track follower system for correcting tangent errors in an optical record scanning system. 4,658,389, 4-14-87, Cl. 369-45.000.

Kuehn, Judson S.: *See—*
  Bodine, James A.; Kuehn, Judson S.; and Silcox, William H., 4,681,298, Cl. 251-129.100.

Kuehn, Monika: *See—*
  Schuck, Helmut; Foerster, Karl-Heinz; Kuehn, Monika; and Schanze, Klaus, 4,701,757, Cl. 340-825.060.

Kuehn, Udo, to B & U Corporation. Method and apparatus for removing excess material from sand cores. 4,659,391, 4-21-87, Cl. 134-7.000.

Kuehne, Rudolf: *See—*
  Schwarz, Lothar; Ueberberg, Friedel; Kuehne, Rudolf; and Fischer, Dieter, 4,670,080, Cl. 156-307.500.

Kuehneman, Gary; and Leavitt, Joel, to United States Data Corporation. Reconfigurable keyboard. 4,688,020, 8-18-87, Cl. 340-365.0VL.

Kuehnert, Egbert, to Hoechst Aktiengesellschaft. Cutting device with a heated cutting wire. 4,672,872, 6-16-87, Cl. 83-171.000.

Kuehnert, Egbert, to Hoechst Aktiengesellschaft. Control device and process for aligning an endless belt utilizing the control device. 4,693,363, 9-15-87, Cl. 198-807.000.

Kuehnert, Hans-Guenter E., to Hoechst Aktiengesellschaft. Apparatus for the automatic feeding of a laminating station. 4,643,415, 2-17-87, Cl. 271-268.000.

Kuehnert, Hans-Guenter E., to Hoechst Aktiengesellschaft. Laminating station. 4,676,862, 6-30-87, Cl. 156-555.000.

Kuehnhanss, Gerhard O.: *See—*
  Shepherd, Lawrence H., Jr.; DeWitt, William J.; and Kuehnhanss, Gerhard O., 4,643,253, Cl. 166-274.000.

Kuei-Wen, Sheu. Electric perpetual calendar. 4,694,597, 9-22-87, Cl. 40-117.000.

Kuener Textilwerke GmbH: *See—*
  Hefele, Josef, 4,655,868, Cl. 156-238.000.

Kuenn, Cary K.: *See—*
  Lamers, Gregory C.; Endres, Dan D.; Win, Maung H.; and Kuenn, Cary K., 4,659,609, Cl. 428-194.000.

Kuenzel, Rolf: *See—*
  Grenzendoerfer, Dietmar; Wierzgon, Achim; Mueller, Gerhard; Erth, Dieter; Guenther, Ludwig; and Kuenzel, Rolf, 4,638,647, Cl. 66-84.00A.

Kuenzel, Werner, to Henkel Kommanditgesellschaft auf Aktien. Easily dispensable detergency booster cloths and dispenser therefor. 4,648,510, 3-10-87, Cl. 206-494.000.

Kuenzel, Werner, to Henkel Kommanditgesellschaft auf Aktien. Detergency booster cloths and dispenser therefor. 4,714,643, 12-22-87, Cl. 428-131.000.

Kuerston, Richard D., to Phillips Petroleum Company. Retorting process using an anti-bridging mechanical agitator. 4,652,342, 3-24-87, Cl. 201-33.000.

Kuester, James L., to Arizona Board of Regents. Process of producing liquid hydrocarbon fuels from biomass. 4,678,860, 7-7-87, Cl. 585-14.000.

Kufner, Walter: *See—*
  Winter, Heinrich; and Kufner, Walter, 4,714,359, Cl. 384-571.000.

Kufta, George; and Tait, David S., to Zenith Electronics Corporation. TV SAP/stereo audio system. 4,688,252, 8-18-87, Cl. 381-4.000.

Kuga, Hisashi; and Sasaki, Chikara, to Tokyo Automatic Machinery Works, Ltd.; and Japan Tobacco Inc. Apparatus for inspecting cigarette bundles. 4,644,150, 2-17-87, Cl. 250-223.00R.

Kuga, Kazuhiko; Washita, Hiroshi; and Watanabe, Hiroyuki, to Asahi Glass Company, Ltd. Laminate and method for its preparation. 4,683,171, 7-28-87, Cl. 428-354.000.

Kuga, Ryuichiro: *See—*
  Nagaoka, Yoshitomi; Matsuda, Yoshiteru; Hirao, Yoshiaki; Kuga, Ryuichiro; and Asakura, Hiroyuki, 4,673,274, Cl. 354-403.000.

Kuge, Akira, to NEC Corporation. Thermal printer for printing on rough surface. 4,661,824, 4-28-87, Cl. 346-70.0PH.

Kuge, Toshio: *See—*
  Nakamura, Yoichi; Yamamoto, Akio; Kurita, Goro; Tomuro, Jinichi; and Kuge, Toshio, 4,668,244, Cl. 44-1.00F.

Kugel, Henry W.; and Ulrickson, Michael, to United States of America, Energy. Tokamak plasma current disruption infrared control system. 4,650,632, 3-17-87, Cl. 376-143.000.

Kugel, Raimund: *See—*
  Wurfel, Reinhart; Zangenfeind, Helmut; Domges, Gunther; and Kugel, Raimund, 4,643,371, Cl. 242-55.000.

Kugele, Thomas G.; Mesch, Keith A.; and Wursthorn, Karl R., to Morton Thiokol Inc. Stabilizer compositions and polymers containing same. 4,665,114, 5-12-87, Cl. 524-181.000.

Kugele, Thomas G.; Mesch, Keith A.; Wursthorn, Karl R.; and Conroy, Gary M., to Morton Thiokol, Inc. Stabilizers for halogen-containing polymers comprising the product of a diorganotin oxide, an ethylenically unsaturated dicarboxylic acid ester and a mercaptan. 4,711,920, 12-8-87, Cl. 524-178.000.

Kugele, Thomas G.: *See—*
  Gilmore, Dennis W.; and Kugele, Thomas G., 4,639,273, Cl. 106-281.00N.

Kugeler, Kurt; Jaroni, Ulrich; Kelm, Wieland; Phlippen, Peter W.; Schmidtlein, Peter; and Kugeler, Manfred, to Kernforschungsanlage Julich GmbH. Transitory storage for highly-radioactive wastes. 4,634,875, 1-6-87, Cl. 250-506.100.

Kugeler, Manfred: *See—*
  Kugeler, Kurt; Jaroni, Ulrich; Kelm, Wieland; Phlippen, Peter W.; Schmidtlein, Peter; and Kugeler, Manfred, 4,634,875, Cl. 250-506.100.

Kugelman, Michael M., to B.F. Goodrich Company, The. Noise tolerant fast acting optical overcurrent protector and method. 4,706,160, 11-10-87, Cl. 361-100.000.

Kugelman, Michael M., to B. F. Goodrich Company, The. Fast acting overcurrent protector and method. 4,713,719, 12-15-87, Cl. 361-54.000.

Kugimiya, Koichi: *See—*
  Nomura, Noboru; Kugimiya, Koichi; Matsumura, Takayoshi; and Yonezawa, Taketoshi, 4,636,077, Cl. 356-356.000.

Kugioka, Michihiro, to Canon Kabushiki Kaisha. Lens barrel in which motor capable of selecting stepping drive or brushless drive is provided. 4,639,084, 1-27-87, Cl. 350-255.000.

Kugland, Peter: *See—*
  Distel, Robert; and Kugland, Peter, 4,698,966, Cl. 60-274.000.

Kugler, Andrew J.: *See—*
  Heller, James W.; Kugler, Andrew J.; Longacre, Andrew, Jr.; and Williams, Daniel L., 4,688,582, Cl. 128-746.000.

Kugler, Artur: *See—*
  Zaunberger, Franz-Xaver; and Kugler, Artur, 4,674,350, Cl. 74-438.000.

Kugler, Edwin L.: *See—*
  Fiato, Rocco A.; and Kugler, Edwin L., 4,689,313, Cl. 502-177.000.

Kugler, Hans-Peter; Eisenreich, Norbert; and Liehmann, Wolfgang, to Fraunhofer-Gesellschaft zur Forderung der angewandten Forschung e.V. Method and apparatus for the measurement of the location or movement of a body. 4,685,804, 8-11-87, Cl. 356-373.000.

Kugler, Reinhard: *See—*
  Bohnen, Peter; Prietzel, Gunter; and Kugler, Reinhard, 4,673,779, Cl. 200-146.00R.
  Bohnen, Peter; Godesa, Ludvik; Kugler, Reinhard; and Marquardt, Ulrich, 4,703,137, Cl. 200-50.0AA.

Kugo, Masaru; Igarashi, Osamu; Katogi, Kozo; Ito, Hiroshi; and Nakamura, Mamoru, to Hitachi, Ltd.; and Hitachi Automotive Engineering Co., Ltd. Liquid crystal color display apparatus having fixed and variable color regions. 4,673,252, 6-16-87, Cl. 350 V-339.00F.

Kugo, Masaru; Ouchi, Hideyuki; Katogi, Kouzou; Igarashi, Osamu; Suda, Seiji; Tokuyama, Keiichi; and Yamamura, Hirohisa, to Hitachi, Ltd. Liquid crystal display device. 4,708,440, 11-24-87, Cl. 350-339.00F.

Kugo, Masaru: *See—*
  Ito, Hiroshi; and Kugo, Masaru, 4,653,863, Cl. 350-339.00F.
  Ito, Hiroshi; and Kugo, Masaru, 4,664,481, Cl. 350-345.000.
  Ito, Hiroshi; Kugo, Masaru; and Watanate, Sizuhisa, 4,697,886, Cl. 350-336.000.

Kuh, Louis M.; and Lampe, Robert C., to Olin Corporation. Water processor having automatic shutoff and bypass means. 4,681,677, 7-21-87, Cl. 210-88.000.

Kuhara, Yoshiki: *See—*
  Tada, Koji; and Kuhara, Yoshiki, 4,662,711, Cl. 350-96.120.

Kuhasalo, Antti; and Vikio, Pentti, to Enso-Gutzeit Oy. Twin hydrocyclone. 4,657,678, 4-14-87, Cl. 210-512.200.

Kuhbauch, Gerd, to Robert Bosch GmbH. Windshield wiper device. 4,639,966, 2-3-87, Cl. 15-250.230.

Kuhfus, Gerd; Walker, Charles R. S.; and Robinson, Anthony H. J., to Northern Telecom Limited. Integral transmitter and modular jack assembly for a telephone set. 4,636,591, 1-13-87, Cl. 381-159.000.

Kuhfus, Gerd, to Northern Telecom, Limited. Telephone handset for a telephone set. 4,672,666, 6-9-87, Cl. 379-433.000.

Kuhfus, Gerd: *See—*
  Retallack, Laurence J.; and Kuhfus, Gerd, 4,647,728, Cl. 200-5.00R.

Kuhfuss, Runwalt, to De La Rue Giori S.A. Process for processing security paper webs or security paper sheets to form bundles of security papers. 4,677,910, 7-7-87, Cl. 101-93.010.

Kuhl, Edward W.: *See—*
  Bernardino, Lowell W.; Kuhl, Edward W.; Mao, Mark H. K.; and Pancheri, Eugene J., 4,681,704, Cl. 252-546.000.

Kuhl, Egbert: *See—*
  Braun, Walter; Kersten, Reinhard; and Kuhl, Egbert, 4,714,822, Cl. 219-449.000.

Kuhl, Hans-Dieter; and Schmidt, Hans-Dieter, to Deutsche Vortex GmbH. Ventilating device. 4,714,484, 12-22-87, Cl. 55-170.000.

Kuhl, Hans-Michael: *See—*
  Heckel, Klaus; Graab, Gerhard; and Kuhl, Hans-Michael, 4,670,075, Cl. 156-222.000.

Kuhl, Henry Y. Egg washing means using staggered sized flat brushes. 4,698,867, 10-13-87, Cl. 15-3.130.

Kuhl, Henry Y. Egg washing conveyor apparatus. 4,698,868, 10-13-87, Cl. 15-3.130.

Kuhl, Henry Y. Method and apparatus for high capacity washing, sanitizing and drying of stacks of flats. 4,702,777, 10-27-87, Cl. 134-25.300.

Kuhl, Henry Y. Apparatus for conveying and washing means therefor. 4,709,713, 12-1-87, Cl. 134-72.000.

Kuhl, Henry Y. Apparatus for movably washing, rinsing and drying a stationary article. 4,712,573, 12-15-87, Cl. 134-95.000.

Kuhl, Jeffrey B. Apparatus for cleaning eggs. 4,704,755, 11-[illegible], Cl. 15-3.130.

Kuhl, Jurgen: *See—*
  Gobel, Ernst O.; Kuhl, Jurgen; and Veith, Gustav, 4,6[illegible], Cl. 372-18.000.

Kuhl, Ulrich: *See—*
  Heinemann, Henning; Kehrbach, Wolfgang; Schoen, Uwe; Buschmann, Gerd; and Kuhl, Ulrich, 4,695,566, Cl. 514-234.000.

Kuhl, Virgil: *See—*
  Richardson, Charles P.; Kuhl, Virgil; Gasparaitis, Bernard; Staple, Bruce; and Krieg, Larry M., 4,679,233, Cl. 379-433.000.

Kuhl, Wilfried; Klug, Leonhard; Rost, Bernd; and Schilling, Wolfgang, to Siemens Aktiengesellschaft. Device for measuring the internal pressure of an operationally built built-in vacuum switch. 4,672,323, 6-9-87, Cl. 324-460.000.

Kuhl, Wilfried: *See—*
  Grosse, Joachim; Hess, Ruediger; Kuhl, Wilfried; and Mueller, Reiner, 4,695,687, Cl. 200-144.00B.

Kuhla, Donald E.; Campbell, Henry F.; and Studt, William L., to William H. Rorer, Inc. Bicyclic benzenoid aminoalkylene ethers and thioethers, pharmaceutical compositions and use. 4,638,001, 1-20-87, Cl. 514-212.000.

Kuhla, Donald E.; Campbell, Henry F.; and Studt, William L., to William H. Rorer, Inc. Benzocyclobutene aminoalkylene ethers and thioethers, pharmaceutical compositions and use. 4,639,442, 1-27-87, Cl. 514-212.000.

Kuhla, Donald E.; Campbell, Henry F.; and Studt, William L., to William H. Rorer, Inc. Bicyclic benzenoid aminoalkylene ethers and thioethers, pharmaceutical compositions and use. 4,647,559, 3-3-87, Cl. 514-212.000.

Kuhla, Donald E.; Campbell, Henry F.; Studt, William L.; Molino, Bruce F.; Tucker, Thomas J.; and Banti, Ferdinand, Jr., to William H. Rorer, Inc. Hydroxy and aminothiazolyl-benzodiazinone compounds, cardiotonic compositions including the same, and their uses. 4,666,913, 5-19-87, Cl. 514-259.000.

Kuhla, Donald E.; Campbell, Henry F.; Studt, William L.; and Neuenschwander, Kent W., to William H. Rorer, Inc. Bicycle benzoxy heterocyclic ethers and thioethers, pharmaceutical compositions and use. 4,668,673, 5-26-87, Cl. 514-212.000.

Kuhla, Donald E.; Studt, William L.; Campbell, Henry F.; and Yelnosky, John, to William H. Rorer, Inc. Heterocyclic guanidines for treating gastrointestinal motility dysfunction. 4,689,335, 8-25-87, Cl. 514-361.000.

Kuhla, Donald E.; Campbell, Henry F.; and Studt, William L., to Rorer Pharmaceutical Corporation. Bicyclic benzenoid aminoalkylene ethers and thioethers, pharmaceutical compositions and use. 4,692,445, 9-8-87, Cl. 514-212.000.

Kuhla, Donald E.; Campbell, Henry F.; and Studt, William L., to Rorer Pharmaceutical Corporation. Bicyclic benzenoid alkylene amino thieno[3,4-d]isothiazole ethers and thioethers, pharmaceutical compositions and use. 4,699,906, 10-13-87, Cl. 514-212.000.

Kuhla, Donald E.; Campbell, Henry F.; Studt, William L.; and Dodson, Stuart A., to Rorer Pharmaceutical Corporation. 3- And 5-(bicyclic ether or bicyclic alkylene thioether)alkylene amino thiatriazines, and their pharmaceutical uses. 4,704,388, 11-3-87, Cl. 514-222.000.

Kuhla, Donald E.; Studt, William L.; Campbell, Henry F.; and Yelnosky, John, to Rorer Pharmaceutical Corporation. Aryl substituted heterocycles for treating gastrointestinal motility dysfunction. 4,714,707, 12-22-87, Cl. 514-361.000.

Kuhle, Engelbert; Paulus, Wilfried; and Genth, Hermann, to Bayer Aktiengesellschaft. N-(dichlorofluoromethylthio)-3,4-dimethylmaleimide and its use as a fungicide. 4,645,776, 2-24-87, Cl. 514-425.000.

Kuhle, Engelbert: *See—*
  Anderson, John; Homeyer, Bernhard; Kuhle, Engelbert; Scheinpflug, Hans; Zeck, Walter M.; and Simonet, Donald E., 4,656,163, Cl. 514-84.000.
  Salzburg, Herbert; Hajek, Manfred; Hagemann, Hermann; Kuhle, Engelbert; Fuhrer, Wolfgang; Hanssler, Gerd; Brandes, Wilhelm; and Reinecke, Paul, 4,713,389, Cl. 514-373.000.
  Schwamborn, Michael; Kuhle, Engelbert; Klauke, Erich; Eue, Ludwig; Schmidt, Robert R.; Santel, Hans-Joachim; and Hanssler, Gerd, 4,640,923, Cl. 514-272.000.

Kuhlen, Harry J.; and Nielsen, Paul H., to Aeroquip Corporation. Optical liquid level indicator and method. 4,670,660, 6-2-87, Cl. 250-577.000.

Kuhling, Franz, to Hasco Normalien Hasenclever & Co. Adjustable marking device for use in mold wall. 4,708,314, 11-24-87, Cl. 249-103.000.

Kuhlman, Clare J.; and Hill, Robert P., to Intercontinental Engineering-Manufacturing Corporation. Apparatus for coupling tugboats to barges. 4,688,507, 8-25-87, Cl. 114-249.000.

Kuhlman Corporation: *See—*
  Macemon, Herbert J.; Fisher, John L.; Piatt, Clair E.; Martin, Richard W.; Winbigler, Paul H.; and Aishton, Thomas H., 4,665,952, Cl. 140-92.200.
  Macemon, Herbert J.; Schlake, Randall L.; Fisher, John L.; Piatt, Clair E.; and Mohney, Hubert L. R., 4,683,919, Cl. 140-92.200.
  Macemon, Herbert J.; and Schlake, Randall L., 4,699,184, Cl. 140-92.200.

Kuhlman, Michael J.: *See—*
  Layman, Frederick P.; Huntley, David A.; Dick, Paul H.; Coad, George L.; Kuhlman, Michael J.; Vecta, Roger M.; and Hobson, Phillip M., 4,705,951, Cl. 250-442.100.
  Layman, Frederick P.; and Kuhlman, Michael J., 4,713,551, Cl. 250-561.000.

Kuhlman, Thomas E. Welder's mask with remote controlled eye shield. 4,679,255, 7-14-87, Cl. 2-8.000.

Kuhlmann, George E.: *See—*
  Spanswick, James; and Kuhlmann, George E., 4,709,080, Cl. 560-86.000.

Kuhlmann, Werner, to Blendax-Werke R. Schneider GmbH & Co. Dental filling material comprising polymerizable (meth)acrylic compound, X-ray opaque fillers and microfiller. 4,649,165, 3-10-87, Cl. 523-116.000.

Kuhlmann, Werner, to Blendax-Werke R. Schneider GmbH & Co. X-ray opaque dental filling composition-brominated aromatic dimethacrylic ester polymerizable component. 4,696,955, 9-29-87, Cl. 522-77.000.

Kuhlwein, Jurgen: *See—*
  Effenberger, Franz; Kuhlwein, Jurgen; and Drauz, Karlheinz, 4,661,626, Cl. 560-343.000.

Kuhn, Albert; and Muller, Reinhard, to BBC Brown, Boveri & Company, Limited. Process for the removal of elemental oxygen by means of a reducing agent in a coolant circulating in one or more closed circulations, and apparatus for the removal of elemental oxygen. 4,655,930, 4-7-87, Cl. 210-668.000.

Kuhn, Alex: *See—*
  Lamiaux, Sylves; and Kuhn, Alex, 4,715,016, Cl. 365-229.000.

Kuhn, Bernhard, to Kaltenbach & Voigt GmbH & Co. Dental handpiece. 4,643,675, 2-17-87, Cl. 433-126.000.

Kuhn, David G., to American Cyanamid Company. Insecticidal cinnamamide compounds and method for controlling insects therewith. 4,659,857, 4-21-87, Cl. 558-58.000.

Kuhn, Donald H., to United States of America, Army. Dual lens antenna with mechanical and electrical beam scanning. 4,642,651, 2-10-87, Cl. 343-754.000.

Kuhn, E.; Boer, J. Den; and Thoen, J., to Dow Chemical Company, The. Polyurethane and urethane-modified isocyanurate foams and a polyol composition useful in their preparation. 4,661,529, 4-28-87, Cl. 521-137.000.

Kuhn, Eberhard: *See—*
  Ahne, Hellmut; and Kuhn, Eberhard, 4,654,415, Cl. 528-351.000.

Kuhn, Edwin R.: *See—*
  Pai, Damodar M.; and Kuhn, Edwin R., 4,666,806, Cl. 430-57.000.

Kuhn, Falk, to Memminger GmbH. Knitting machine having at least one needle bed. 4,633,684, 1-6-87, Cl. 66-104.000.

Kuhn, Falk; and Buck, Alfred, to Memminger GmbH. Yarn feeding and guide device for a knitting machine. 4,688,401, 8-25-87, Cl. 66-141.000.

Kuhn, Falk: *See—*
  Memminger, Gustav; Roser, Erich; and Kuhn, Falk, 4,706,476, Cl. 66-132.00R.

Kuhn, Franz J.: *See—*
  Weber, Karl-Heinz; Schneider, Claus; Walther, Gerhard; Hinzen, Dieter; Kuhn, Franz J.; Lehr, Erich; Ensinger, Helmut; and Troger, Wolfgang, 4,670,456, Cl. 514-424.000.

Kuhn, Gebhard. Device for simulating the movements of and representing rotation symmetrical bodies. 4,634,387, 1-6-87, Cl. 434-291.000.

Kuhn, George C. Patient motivation device. 4,689,842, 9-1-87, Cl. 5-61.000.

Kuhn, Hans-Robert, to Deutsche Thomson-Brandt GmbH. Track follower system employing an optical scanner with automatic control of a rotatably movable phase grating used for the generation and positioning of read beam spots. 4,686,663, 8-11-87, Cl. 369-46.000.

Kuhn, Harald: *See—*
  Fischer, Dietrich; and Kuhn, Harald, 4,704,507, Cl. 200-148.00B.

Kuhn, Hartmut: *See—*
  Schewe, Tankred; Strumpf, Thomas; Rapoport, Samuel M.; Zanke, Dieter; Slapke, Jurgen; Kuhn, Hartmut; Lyr, Horst; and Grupe, Renate, 4,670,469, Cl. 514-575.000.

Kuhn, Heinrich; Stitz, Olaf; and Wimmer, Karl, to Sigri GmbH. Method for coating carbon and graphite bodies. 4,716,572, 12-29-87, Cl. 373-88.000.

Kuhn, Jakob: *See—*
  Rohr, Thomas-Markus; and Kuhn, Jakob, 4,701,525, Cl. 534-678.000.

Kuhn, James A., II, to FMC Corporation. Apparatus for making expanded metal. 4,649,607, 3-17-87, Cl. 29-6.100.

Kuhn, Klaus: *See—*
  Albrecht, Wilhelm; Wurz, Dieter; Peitsmeier, Karl; Waldschutz, Heinz; Ruckert, Walter; Kuhn, Klaus; and Patzelt, Helmut, 4,644,817, Cl. 74-552.000.

Kuhn, Manfred: *See—*
  Bayerlein, Friedrich; Habereder, Peter-Paul; Keramaris, Nikolaos; Kottmair, Nikolaus; and Kuhn, Manfred, 4,645,833, Cl. 536-17.100.
  Bayerlein, Friedrich; Kuhn, Manfred; and Maton, Michel, 4,661,475, Cl. 514-54.000.

Kuhn, Michael A.: *See—*
  Mackiewicz, Ralph E.; and Kuhn, Michael A., 4,713,756, Cl. 364-200.000.

Kuhn, Nicholas J., to Lec Tec Corporation. Self-adhering electrode. 4,657,023, 4-14-87, Cl. 128-640.000.

Kuhn, Norbert: *See—*
  Schilder, Hans; and Kuhn, Norbert, 4,668,168, Cl. 416-157.00R.

Kuhn, Reinhard: *See—*
  Hahnke, Manfred; Kuhn, Reinhard; Hahnle, Reinhard; and Schickfluss, Rudolf, 4,689,050, Cl. 8-639.000.
  Tappe, Horst; Kruse, Hubert; Kuhn, Reinhard; Bode, Albert; and Boos, Margareta, 4,678,476, Cl. 8-639.000.

Kuhn, Roscoe E.: *See—*
  Moro, Dominik J.; Reisinger, Robert R.; Larson, James M.; and Kuhn, Roscoe E., 4,706,570, Cl. 105-163.200.

Kuhn, Siegfried: *See—*
  Felten, Klaus; Honroth, Walter; Kuhn, Siegfried; Schulten, Hermann; and Zeller, Bruno, 4,696,209, Cl. 82-40.00R.
  Gloser, Wolfgang; Kuhn, Siegfried; Rader, Robert; Setzer, Friedhelm; Kienhofer, Hermann; and Muhlich, Werner, 4,662,253, Cl. 82-32.000.

Kuhn S.A.: *See—*
  Aron, Jerome, 4,656,821, Cl. 56-370.000.
  Aron, Jerome; and Engel, Alfred, 4,693,065, Cl. 56-377.000.
  Ermacora, Rino; and Jehl, Patrice, 4,669,256, Cl. 56-13.600.
  Ermacora, Rino; and Jehl, Patrice, 4,694,640, Cl. 56-16.400.
  Ermacora, Rino; and Krebs, Thierry, 4,714,123, Cl. 180-14.400.
  Reber, Walter, 4,685,281, Cl. 56-370.000.
  Willinger, Joseph, 4,633,656, Cl. 56-13.600.

Kuhn, Stephane: *See—*
  Goldman, Max; Goldman, Alice; Kuhn, Stephane; Langlois, Pierre-Emmanuel; and Berger, Gerard, 4,652,694, Cl. 174-3.000.

Kuhn, Ulrich, to Robert Bosch GmbH. Method and apparatus for measuring the mass of a flowing medium. 4,715,224, 12-29-87, Cl. 73-204.000.

Kuhn, Ulrich: *See—*
  Abt, Jurgen; Bollhagen, Heins; Handtmann, Dieter; Kuhn, Ulrich; and Stumpf, Sybille, 4,665,742, Cl. 73-168.000.
  Dressler, Helmut; Engenhart, Peter; Jahnel, Klaus; Kochendorfer, Heinrich; Kuhn, Ulrich; Matthas, Karl H.; and Schuster, Kurt, 4,635,173, Cl. 362-294.000.
  Handtmann, Dieter; and Kuhn, Ulrich, 4,688,424, Cl. 73-204.000.

Kuhn, Walter: *See—*
  Guth, Gerhard; Kuhn, Walter; Linhofer, Gerhard; and Sadek, Kadry, 4,689,733, Cl. 363-51.000.

Kuhn, Wayne H.: *See—*
  Johnson, Richard H.; Selin, Howard; and Kuhn, Wayne H., 4,662,150, Cl. 53-458.000.

Kuhn, Werner; and Zilske, Wolfgang, to Degussa Aktiengesellschaft. Process and bath for the electrolytic deposition of gold-tin alloy coatings. 4,634,505, 1-6-87, Cl. 204-44.300.

Kuhn, Werner; and Zilske, Wolfgang, to Degussa Aktiengesellschaft. Process for the treatment of stainless steel for a direct galvanic gold plating. 4,659,438, 4-21-87, Cl. 204-34.000.

Kuhne, Christoph, to Carl-Zeiss-Stiftung. Laser range finder. 4,690,550, 9-1-87, Cl. 356-5.000.

Kuhne, Karl F., to Carbide Blast Joints, Inc. Method and apparatus for protecting consecutive multiple variable diameter couplings. 4,635,968, 1-13-87, Cl. 285-45.000.

Kuhne, Manfred; and Gallay, Jean J., to Ciba-Geigy Corporation. Thiobarbituric acid derivatives and their use as anthelmintics. 4,670,441, 6-2-87, Cl. 514-270.000.

Kuhne, Roland: *See—*
  Riso, Vladimir; and Kuhne, Roland, 4,648,102, Cl. 375-106.000.

Kuhnel, Donald S.; and Ottenstein, Sidney A., to Innovative Controls, Incorporated. High intensity discharge lamp self-adjusting ballast system sensitive to the radiant energy or heat of the lamp. 4,682,084, 7-21-87, Cl. 315-307.000.

Kuhnel, Donald S.; and Ottenstein, Sidney A., to Innovative Controls, Incorporated. High intensity discharge lamp self-adjusting ballast system with current limiters and a current feedback loop. 4,686,428, 8-11-87, Cl. 315-307.000.

Kuhnel, Hans D.: *See—*
  Breimeier, Kurt; Eickhoff, Heinrich; Erdmann, Hans-Walter; and Kuhnel, Hans D., 4,640,054, Cl. 49-504.000.

Kuhnel, Werner; and Spielau, Paul, to Dynamit Nobel Aktiengesellschaft. Molding composition for crosslinked foam material from polyolefins and ethylene-propylene elastomer, and process for the production of the foam material. 4,680,317, 7-14-87, Cl. 521-89.000.

Kuhnel, Werner: *See—*
  Spielau, Paul; Kuhnel, Werner; Klaar, Karlo; Gaspar, Bertram; Weiss, Richard; Ulb, Horst; Breitscheidel, Hans-Ulrich; Klingberg, Gerd; and Fenske, Jurgen, 4,652,326, Cl. 156-244.110.

Kuhnelt, Herbert: *See—*
  Bauer, Friedrich; and Kuhnelt, Herbert, 4,700,610, Cl. 91-390.000.

Kuhnemundt, Gerhard; and Elsasser, Heinz, to Marguardt GmbH. Switching arrangement for full-wave power control which is insensitive to mains voltage fluctuations. 4,70..248, 10-27-87, Cl. 323-300.000.

Kuhnen, Fred: *See—*
  Milzner, Karlheinz; Kuhnen, Fred; and Seckinger, Karl, 4,657,579, Cl. 71-92.000.
  Seckinger, Karl; Kuhnen, Fred; and Milzner, Karlheinz, 4,666,502, Cl. 71-90.000.

Kuhnen, Gottfried: *See—*
  Faber, Guy; and Kuhnen, Gottfried, 4,710,103, Cl. 416-219.00R.

Kuhner, Gerhard: *See—*
  Rothbuhr, Lothar; and Kuhner, Gerhard, 4,636,375, Cl. 423-450.000.

Kuhnert, Siegfried: *See—*
  Hoft, Peter; Peter, Wolfgang; Bergsteiner, Johann; Berschiek, Gunter; Drobe, Wolfgang; Engelke, Fritz; Hacke, Heinz; Hebbinghaus, Walter; and Kuhnert, Siegfried, 4,690,297, Cl. 220-273.000.

Kuhnigk, Theo: *See—*
  Stromberg, Wilfried; and Kuhnigk, Theo, 4,706,451, Cl. 59-85.000.

Kuhnle, Adolf: *See—*
  Berke, Fritz; Kehr, Helmut; and Kuhnle, Adolf, 4,661,163, Cl. 106-270.000.

Kuhnlein, Klaus, to BBC Brown, Boveri & Company, Limited. Facility for the monitoring of physical quantities on systems. 4,637,587, 1-20-87, Cl. 251-29.000.

Kuhnlenz, Konrad: *See—*
  Ascheron, Eberhard; Kuhnlenz, Konrad; Oetzel, Dieter; and Woschek, Dietrich, 4,664,537, Cl. 384-470.000.

Kuhnley, Shirley J. Christmas tree stand. 4,699,347, 10-13-87, Cl. 248-516.000.

Kuhns, Abe B., to E-Z Trail, Inc. Multiway gravity box and door assembly. 4,646,942, 3-3-87, Cl. 222-144.500.

Kuhns, John F., to Aquascience Research Group, Inc. Method and product for removal of chloramines, chlorine and ammonia from aquaculture water. 4,666,610, 5-19-87, Cl. 210-749.000.

Kuhns, John P.; and Taylor, James R., to Q-Dot Corporation. Method of making an internally grooved and expanded tubular heat exchanger apparatus. 4,706,355, 11-17-87, Cl. 29-157.30C.

Kuhr, Manfred; Machat, Rudolf; Weckerle, Wolfgang; Batz, Hans-Georg; Herrmann, Rupert; Kleemann, Wolfgang; and Buschek, Herbert, to Boehringer Mannheim GmbH. Phenolsulphonphthalei-

- nyl-β-D-galactosides and diagnostic agents containing them. 4,668,622, 5-26-87, Cl. 435-14.000.
- Kuhr, Manfred: *See—*
  - Deneke, Ulfert; Guthlein, Werner; Kuhr, Manfred; Merdes, Hartmut; Murawski, Hans-Rudiger; and Wielinger, Hans, 4,665,023, Cl. 435-28.000.
- Kuhrdt, Gunther, to Licentia Patent-Verwaltungs-GmbH. Antenna system for a flying body for jamming radio transmitting and receiving devices. 4,682,172, 7-21-87, Cl. 342-15.000.
- Kuhrdt, Gunther, to Licentia Patent-Verwaltungs-GmbH. Provisions for the suppression of mutual jammer interference in a flying body. 4,689,622, 8-25-87, Cl. 342-14.000.
- Kuhstoss, Stuart A.: *See—*
  - Belagaje, Ramamoorthy; Kuhstoss, Stuart A.; and Rao, R. Nagaraja, 4,710,464, Cl. 435-91.000.
- Kuijpers, Eugene G. M.: *See—*
  - Mesters, Carolus M. A. M.; Geus, John W.; Kuijpers, Eugene G. M.; and Gijzeman, Onno L. J., 4,657,888, Cl. 502-331.000.
  - Mesters, Carolus M. A. M.; Geus, John W.; and Kuijpers, Eugene G. M., 4,711,773, Cl. 423-655.000.
- Kuiper, Adrianus M. Lampholder assembly for loop-, u- or pi-shaped gas discharge or fluorescent lamps with a single lamp cap. 4,643,504, 2-17-87, Cl. 339-51.000.
- Kuiper, Bernardus A.: *See—*
  - Timmermans, Franciscus W. A.; and Kuiper, Bernardus A., 4,646,141, Cl. 358-50.000.
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Hanula, Richard M.; and Kulieke, Fred C., Jr., 4,645,085, Cl. 213-155.000.

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Kurtz, Anthony D.; Nunn, Timothy A.; and Weber, Richard A., 4,672,354, Cl. 338-4.000.
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Kull, Martin: *See—*
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Lands, William E. M.; Kulmacz, Richard J.; Marshall, Paul J.; and Warso, Michael A., 4,675,281, Cl. 435-4.000.

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Bailey, Terry R.; Kult, Roger R.; and Belisle, Louis C., 4,663,213, Cl. 428-204.000.

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Kuosa, Harri; and Kultaranta, Tapani, 4,633,774, Cl. 100-43.000.

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Angrick, Michael; Trautwein, Ullrich; and Lenz, Kurt, 4,656,053, Cl. 427-53.100.
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Mitani, Kazuo; Hirota, Yoshiharu; Kumagai, Shinobu; Komori, Shigeki; and Tsuru, Masahiro, 4,660,618, Cl. 164-454.000.

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Amao, Nobuyoshi; Takahashi, Yoshihisa; and Yokomizo, Hitoshi, 4,668,884, Cl. 310-68.00R.

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Hashizume, Masao, 4,640,111, Cl. 70-314.000.

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Niino, Masayuki; Yatsuyanagi, Nobuyuki; Kumakawa, Akiraga; Suzuki, Akio; Gomi, Hiromi; Sakamoto, Hiroshi; Sasaki, Masaki; Masuda, Yoshimichi; Watanabe, Ryuzo; Takekawa, Junjiro; Ohtsuki, Etsuo; and Isago, Terashi, 4,703,620, Cl. 60-260.000.

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Tachikawa, Kyoji; Togano, Kazumasa; and Kumakura, Hiroaki, 4,664,933, Cl. 427-12.000.

Kumakura, Hiroshi: *See—*

Takahashi, Satoshi; Tsutsumi, Akira; Suzuki, Junji; Kumakura, Hiroshi; Ito, Takao; Ohsawa, Kenji; Ikegami, Yuji; Haruki, Muneyuki; Yasuda, Nobuyuki; and Ohta, Masayuki, 4,677,252, Cl. 174-68.500.

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Kumakura, Rikichi: *See—*

Kumakura, Kenkichi, 4,677,328, Cl. 310-67.00R.

Kumakura, Seiji: *See—*

Tomita, Kuniyuki; Shimoji, Yasuo; Kumakura, Seiji; Koike, Hiroyuki; Iwata, Nobuyoshi; and Morisawa, Yasuhiro, 4,716,162, Cl. 514-234.000.

Kumakura, Yoshiyuki: *See—*

Harada, Yuho; Maruyama, Tsutomu; Kumakura, Yoshiyuki; and Kuwayama, Shigeo, 4,710,216, Cl. 65-4.100.

Kumamoto, Kenichiro; Sato, Akira; Ohya, Koichi; and Matsuda, Koichi, to Sony Corporation. Tuner for television receiver. 4,691,378, 9-1-87, Cl. 455-301.000.

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Ukachi, Takashi; Bessho, Keiichi; Kumano, Atsushi; Matsumura, Yoshio; and Ansel, Robert E., 4,683,280, Cl. 528-71.000.

Kumano, Humihiro: *See—*

Tanahashi, Masao; Hamashima, Tetsuo; and Kumano, Humihiro, 4,635,360, Cl. 30-34.200.

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Nishimura, Yasumasa; Fujishima, Kazuyasu; and Kumanoya, Masaki, 4,672,582, Cl. 365-201.000.

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Kumar, Ajith K., to General Electric Company. Loss of electrical feedback detector. 4,695,941, 9-22-87, Cl. 364-165.000.

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Balch, Edgar T.; Bilski, Richard E.; and Kumar, Ajith K., 4,634,887, Cl. 290-3.000.

Kumar, Ananda H.: *See—*

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Kumar, Manoj: *See—*

Dias, Daniel M.; Kumar, Manoj; Lien, Yeong-Chang L.; and Maruyama, Kiyoshi, 4,679,190, Cl. 370-60.000.

Kumar, Ravi, to Air Products and Chemicals, Inc. Removal of water and carbon dioxide from atmospheric air. 4,711,645, 12-8-87, Cl. 55-26.000.

Kumar, Shailendra; Lorenz, Gerald; and Cabato, Nellie L. Electrical resistor material, resistor made therefrom and method of making the same. 4,651,126, 3-17-87, Cl. 338-309.000.

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Shimizu, Shigeru; and Kumasaka, Akio, 4,704,681, Cl. 364-417.000.

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Kumashiro, Izumi: *See—*

Fukushima, Koji; Seto, Yoshiko; Kawada, Kazuhiro; Toi, Koji; and Kumashiro, Izumi, 4,714,713, Cl. 514-563.000.

Toyoshima, Shigeshi; Seto, Yoshiko; Fukushima, Koji; and Kumashiro, Izumi, 4,650,785, Cl. 514-3.000.

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Kumashiro, Kenji; Iijima, Toshifumi; Akamatsu, Hideo; and Matsuzaka, Syoji, to Konishiroku Photo Industry Co., Ltd. Silver halide photographic light-sensitive material. 4,692,400, 9-8-87, Cl. 430-553.000.

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Iijima, Toshifumi; Kumashiro, Kenji; Kashiwagi, Hiroshi; Hatta, Koichi; Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; and Shinozaki, Kaoru, 4,665,015, Cl. 430-558.000.

Iijima, Toshifumi; Yamada, Yoshitaka; Kumashiro, Kenji; Kamio, Takashi; and Shimura, Shinya, 4,701,404, Cl. 430-559.000.

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Otsuka, Nobuyuki; Kasuya, Atsuo; Nakayama, Yusho; Kumashiro, Masayuki; Furuya, Tamio; and Kaiho, Shigeo, 4,689,979, Cl. 72-57.000.

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umata, Kiyoshi: *See—*

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umata, Masataka; Emori, Kazuo; Mitsumori, Masahito; Watanabe, Hideo; and Kobayashi, Kazuaki, to Honda Giken Kogyo Kabushiki Kaisha; and Yokohama Rubber Co., Ltd. Fiber reinforced plastic drive shaft and method of manufacturing thereof. 4,664,644, 5-12-87, Cl. 464-180.000.

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umazaki, Hiroshi, to Toshiba Kikai Kabushiki Kaisha. Method of controlling pressurized gas, before and after injecting a molten material, in a mold cavity. 4,675,141, 6-23-87, Cl. 264-40.300.

umazaki, Masayuki; Shimoe, Toshio; and Murakami, Koso, to Fujitsu Limited. Switching system having tone trunk. 4,680,758, 7-14-87, Cl. 370-110.200.

umazawa, Katsuyoshi; and Komori, Minoru, to Kabushiki Kaisha Toshiba. Space heater. 4,666,398, 5-19-87, Cl. 431-201.000.

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umazawa, Satoru: *See—*

Aoki, Katsumichi; Shida, Takafumi; Arabori, Hideo; Kumazawa, Satoru; Shimizue, Susumu; Watanave, Takeo; Kanda, Yohichi; Satake, Keigo; Yamazaki, Shiro; Shinkawa, Hiroyasu; and Chida, Tsuneaki, 4,690,704, Cl. 71-90.000.

Kumazawa, Takahiro; Nakamura, Yoshihiro; and Yamaguchi, Yoshimitsu, to Nippondenso Co., Ltd. Method and device for removing defective products. 4,682,694, 7-28-87, Cl. 209-559.000.

Kumazawa, Takeshi: *See—*

Kikuchi, Goro; Kumazawa, Takeshi; and Miura, Hiroshi, 4,688,567, Cl. 128-206.150.

Kumazawa, Yoshihiko; and Matsuyama, Tsunekazu, to Shimadzu Corporation. Scintillation camera with pulse height analyzer. 4,661,909, 4-28-87, Cl. 364-414.000.

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Migita, Yoshihiro; Eguchi, Tadashi; Kumazawa, Yukinari; Nakagami, Jozi; Amano, Takehiro; Sota, Kaoru; and Sakakibara, Jinsaku, 4,686,292, Cl. 544-343.000.

Kume, Hiroshi, to Fuji Xerox Co., Ltd. Digital signal transmission system. 4,706,246, 11-10-87, Cl. 370-85.000.

Kume, Hisao; Nishihara, Tokihiro; Shirasaka, Hiroharu; Kanehira, Kenichi; and Saita, Koji, to Sony Corporation. Method for manufacturing an electron beam selection electrode. 4,682,965, 7-28-87, Cl. 445-37.000.

Kume, Kazunari, to Citizen Watch Co., Ltd. Floppy disk drive. 4,669,010, 5-26-87, Cl. 360-99.000.

Kume, Nobuyuki: *See—*

Tada, Hideki; Ito, Michio; Tanaka, Kazuki; Kume, Nobuyuki; Takei, Tetsuya; and Kisu, Hiroki, 4,674,865, Cl. 355-15.000.

Kume, Tadaaki: *See—*

Koike, Mitsuhiro; Saijo, Yoshihiro; and Kume, Tadaaki, 4,708,707, Cl. 493-313.000.

Kume, Takeshi, to Suehiro Seiko Kabushiki Kaisha. Chain saw guide bar and method of construction. 4,641,432, 2-10-87, Cl. 30-383.000.

Kume, Toyohiko; Tsuboi, Shinichi; Isono, Kunihiro; Sasaki, Shoko; and Hattori, Yumi, to Nihon Tokushu Noyaku Seizo K.K. Arthropodicidal benzothiazolyl and benzoxazolyl benzamides. 4,675,331, 6-23-87, Cl. 514-367.000.

Kume, Toyohiko; Tsuboi, Shinichi; and Isono, Kunihiro, to Nihon Tokushu Noyaku Seizo K.K. Phosphoroimidates as pesticides. 4,692,436, 9-8-87, Cl. 514-129.000.

Kume, Toyohiko; Kurahashi, Yoshio; Isono, Kunihiro; Sakawa, Shinji; and Matsumoto, Noboru, to Nihon Tokushu Noyaku Seizo K.K. Carbamoylimidazole derivatives. 4,700,006, 10-13-87, Cl. 568-67.000.

Kume, Yoichi: *See—*

Ikeda, Taro; Yahiro, Teruo; Yoshida, Hiroshi; Nishi, Kenji; Isobe, Takahisa; Kume, Yoichi; and Hamano, Hidenobu, 4,688,648, Cl. 175-242.000.

Kumei, Yasuhiro: *See—*

Sato, Atsushige; Miura, Ishi; Kumei, Yasuhiro; Okuno, Osamu; Nakano, Tsuyoshi; and Yoshida, Bunsaku, 4,702,765, Cl. 75-0.50B.

Kumekawa, Norio: *See—*

Hirose, Takao; and Kumekawa, Norio, 4,690,494, Cl. 350-96.200.

Kumeth, Siegmund. Device for grooving cylindrical workpieces. 4,644,777, 2-24-87, Cl. 72-402.000.

Kumeth, Siegmund. Apparatus for the singling and orientation of tension coil springs. 4,667,806, 5-26-87, Cl. 198-394.000.

Kumeth, Siegmund. Apparatus for fitting O-rings onto workpieces. 4,703,548, 11-3-87, Cl. 29-235.000.

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Motojima, Kenji; Miyazawa, Takeshige; Toyokawa, Yasufumi; Matsuzawa, Masafumi; Hokari, Hiroshi; and Kusano, Shoji, 4,678,496, Cl. 71-76.000.

Takematsu, Tetsuo; Konnai, Makoto; Shimizu, Kuniaki; Urushibata, Ikumi; and Kajiwara, Ikuo, 4,659,371, Cl. 71-103.000.

Kumm, Emerson L.; and Kraver, Theodore C. Oriented flat belt continuously variable transmission using pulleys with guideways. 4,714,452, 12-22-87, Cl. 474-49.000.

Kummann, Paul, to Linde Aktiengesellschaft. Process for the separation of a C_{2+} hydrocarbon fraction from natural gas. 4,676,812, 6-30-87, Cl. 62-24.000.

Kummel, Karen: *See—*

Laustsen, Mads A.; and Kummel, Karen, 4,714,664, Cl. 429-105.000.

Kummer, David A.; Saenz, Jesus A.; and Trynosky, Stephen W., to International Business Machines Corporation. Raster scan digital display system with digital comparator means. 4,706,079, 11-10-87, Cl. 340-799.000.

Kummer, David A.: *See—*

Eggebrecht, Lewis C.; and Kummer, David A., 4,658,350, Cl. 364-200.000.

Kummer Electronics B.V.: *See—*

Kummer, Jan, 4,715,405, Cl. 137-625.200.

Kummer, Jan, to Kummer Electronics B.V. Solenoid valve, particularly for apparatus for removing a milking set. 4,715,405, 12-29-87, Cl. 137-625.200.

Kummer, Kenneth L. Method and apparatus for grinding multiple workpieces. 4,672,775, 6-16-87, Cl. 51-5.00R.

Kummer, Martin E., to Dana Corporation. Shim cap device for clutch lever adjustment. 4,667,799, 5-26-87, Cl. 192-70.250.

Kummer, Rudolf: *See—*

Reuvers, Johannes G.; Richter, Wolfgang; and Kummer, Rudolf, 4,645,855, Cl. 560-204.000.

Kummer, Stanley F.: *See—*

Sutton, Walter T.; Craft, Randy; and Kummer, Stanley F., 4,672,231, Cl. 307-118.000.

Kummerow, Gerd: *See—*

Doerfler, Rudolf; Krause, Kurt; Kummerow, Gerd; Moerman, Boudewijn; Schnabel, Rudolf; Schroether, Gerhard; Voigt, Rolf; Weidner, Georg; and Zentgraf, Lothar, 4,670,812, Cl. 361-83.000.

Kumnick, Albert J.: *See—*

Grant, William F.; Burt, Gary W.; and Kumnick, Albert J., 4,697,324, Cl. 29-419.00R.

Kumobayashi, Hidenori: *See—*

Okano, Tamon; Kumobayashi, Hidenori; Akutagawa, Susumu; Kiji, Jitsuo; Konishi, Hisatoshi; Fukuyama, Keiichi; and Shimano, Yasunobu, 4,705,895, Cl. 564-15.000.

Otsuka, Seinosuke; Tani, Kazuhide; Yamagata, Tsuneaki; Akutagawa, Susumu; Kumobayashi, Hidenori; and Yagi, Misao, 4,695,631, Cl. 544-170.000.

Kumokawa, Takashi: *See—*

Imamura, Eiji; Kumokawa, Takashi; Nakayama, Fumio; Mandai, Haruhumi; Fukutani, Iwao; and Tomono, Kunisaburo, 4,698,605, Cl. 333-184.000.

Kumonaka, Takahiro: *See—*

Wakabayashi, Toshio; Kumonaka, Takahiro; and Suwabe, Yasushi, 4,656,172, Cl. 514-252.000.

Kump, William H.; and Jergl, Joseph J., to GNB Incorporated. Battery comprising dual terminal bushings. 4,645,725, 2-24-87, Cl. 429-179.000.

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Kumpe, Gerhard: *See—*

Schwinn, Horst; Heimburger, Norbert; Kumpe, Gerhard; and Herchenhan, Bernd, 4,670,544, Cl. 530-392.000.

Kumpitsch, Robert C.; and Retersdorf, James P., to General Electric Company. Mold method for superconductive joint fabrication. 4,713,878, 12-22-87, Cl. 29-599.000.

Kumura, Haruyoshi; Abo, Keiju; Hirano, Hiroyuki; Yamamuro, Sigeaki; and Nakano, Masaki, to Nissan Motor Co., Ltd. Line pressure control device for hydraulic control system of automatic transmission. 4,679,466, 7-14-87, Cl. 74-863.000.

Kumura, Haruyoshi: *See—*

Nakano, Masaki; Yamamuro, Sigeaki; Hirano, Hiroyuki; Abo, Keiju; and Kumura, Haruyoshi, 4,651,776, Cl. 137-625.690.

Kumura, Tadakatsu: *See—*
- Uchimura, Kuniharu; Kobayashi, Tsutomu; Iwata, Atushi; Hayashi, Toshio; and Kumura, Tadakatsu, 4,704,600, Cl. 340-347.0AD.

Kumura, Tatsuo: *See—*
- Yamauchi, Kazushi; Ogata, Muneyuki; Kobayashi, Tomio; Kubota, Makoto; and Kumura, Tatsuo, 4,671,828, Cl. 148-309.000.
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Kumura, Yukimasa: *See—*
- Noguchi, Kosaku; Tanaka, Honami; Kumura, Yukimasa; Yamazaki Heima; Kitajima, Eiji; and Sunada, Tomonori, 4,640,822, Cl. 422-111.000.

Kun, Andrew I.: *See—*
- Weisshaar, Bernhard P.; Kolnick, Frank C.; Kun, Andrew I.; and Mansfield, Bruce M., 4,694,396, Cl. 364-300.000.

Kun, Chang C. Opening and recovering type net device. 4,706,404, 11-17-87, Cl. 43-12.000.

Kun, Judit: *See—*
- Heja, Gergely; Korbonits, Dezso ; Palosi, Endre; Kiss, Pal; Gonczi, Csaba; Szvoboda nee Kanzel, Ida; Marvanyos, Ede; Kun, Judit; Szomor nee Wundele, Maria; Szabo, Gabor; Kallay, Tamas; and Ledniczky, Laszlo , 4,709,081, Cl. 560-100.000.

Kuna, Wayne A.: *See—*
- Baran, Patrick S.; Levin, Sandra A.; and Kuna, Wayne A., 4,673,181, Cl. 273-1.0GC.
- Zaruba, John V.; Hanson, Steven P.; and Kuna, Wayne A., 4,708,348, Cl. 273-246.000.

Kunath, Peter: *See—*
- Hellwig, Claus; Hempel, Ernst-Heinrich; Kunath, Peter; and Rinckleb, Ulf, 4,649,720, Cl. 66-75.200.

Kunces, David J., to MacDermid, Incorporated. Chromium mask for electroless nickel or copper plating. 4,699,811, 10-13-87, Cl. 427-259.000.

Kunczynski, Jan K. Aerial tramway grip assembly. 4,658,733, 4-21-87, Cl. 104-208.000.

Kunczynski, Jan K. Positive drive assembly for automatic, rail-based transportation system. 4,671,186, 6-9-87, Cl. 104-168.000.

Kunczynski, Jan K. Deropement sensor apparatus with gravity-biased, falling, magnetic member. 4,671,187, 6-9-87, Cl. 104-179.000.

Kundert, Warren R., to Control Resources, Inc. Fan speed controller. 4,659,290, 4-21-87, Cl. 417-32.000.

Kundinger, Ernst F.; Klimesch, Erich; Zengel, Hans G.; and Lasher, Jeffrey D., to Akzo NV. Flexible multilayer polyimide laminates. 4,675,246, 6-23-87, Cl. 428-336.000.

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Kunen, Scott M. Touch controlled switch for a lamp or the like. 4,668,877, 5-26-87, Cl. 307-116.000.

Kunert, Heinz; Vanaschen, Luc; and Cornils, Gerd, to Saint-Gobain Vitrage. Adhesive connection between the marginal area of a glass pane and a window frame. 4,681,794, 7-21-87, Cl. 428-188.000.

Kunert, Heinz; and Jbach, Hermann-Wolf, to Vegla Vereinigte Glaswerke GmbH; and JMC Acrylguss GmbH & Co. Light diffusing insulating glass element. 4,684,571, 8-4-87, Cl. 428-314.800.

Kunert, Heinz; and Cornils, Gerd, to Saint-Gobain Vitrage. Method of adhesive bonding and mounting glass sheets in a window aperture. 4,704,175, 11-3-87, Cl. 156-108.000.

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Kunert, Peter K.: *See—*
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- Iizuka, Nobuyuki; Hisano, Katsukuni; Wada, Katsuo; Kunihiro Masashi; Hirose, Fumiyuki; Ishibashi, Yoji; Sato, Isao; Arai Osamu; Inose, Hiroshi; and Sakuda, Osamu, 4,677,822, Cl. 60-39.230.

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  - Matsui, Kazumasa; and Kunimoto, Asao, 4,661,424, Cl. 429-104.000.
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  - Fujihara, Takeo; Yamatani, Akira; Yamamoto, Masanori; and Kunimoto, Yuji, 4,705,209, Cl. 229-109.000.
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- Kunisch, Franz: *See—*
  - Welzel, Peter; Kunisch, Franz; Stein, Hermann; Hiltmann nee Ponty, Aranka; and Kruggel, Frithjof, 4,684,626, Cl. 514-25.000.
- Kunishi, Kosuke; Mikada, Hiroyuki; and Watanabe, Tsunehiro, to Canon Kabushiki Kaisha. Data receiving apparatus. 4,677,649, 6-30-87, Cl. 375-122.000.
- Kunishi, Shinsuke: *See—*
  - Fukishima, Minoru; and Kunishi, Shinsuke, 4,681,393, Cl. 439-851.000.
- Kunita, Hisao: *See—*
  - Hashimoto, Shintaro; Masuzawa, Sigeaki; Kunita, Hisao; Inoue, Tomohiro; and Nishimura, Kosuke, 4,707,794, Cl. 364-513.500.
  - Yoshida, Hideo; and Kunita, Hisao, 4,635,211, Cl. 364-513.500.
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- Kunita, Masao: *See—*
  - Kaneko, Masahiko; Kunita, Masao, and Ohsawa, Seiichi, 4,650,348, Cl. 400-22.000.
- Kuniya, Keichi: *See—*
  - Inagaki, Masahisa; Jinbo, Ryutaro; Kuniya, Keichi; Masaoka, Isao; and Maki, Hideo, 4,664,727, Cl. 148-407.000.
  - Yoshida, Toshimi; Maki, Hideo; Umehara, Hajime; Yasuda, Tetsuo; Masaoka, Isao; Takase, Iwao; Inagaki, Masahisa; Jimbow, Ryutarou; and Kuniya, Keiichi, 4,678,521, Cl. 148-11.50F.
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- Kuniyasu, Tsutomu: *See—*
  - Kuki, Kouji; and Kuniyasu, Tsutomu, 4,670,824, Cl. 362-293.000.
- Kuniyoshi, Shinji: *See—*
  - Sugiyama, Shuji; Syohda, Shuji; and Kuniyoshi, Shinji, 4,690,529, Cl. 353-122.000.
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- Kunkel, Hans-Achim, to Carl Freudenberg, Firma. Apparatus for adhering thermally-softenable plastic particles into a plastic body. 4,689,004, 8-25-87, Cl. 425-407.000.
- Kunkel, Heinrich: *See—*
  - Olschewski, Armin; Brandenstein, Manfred; Hetterich, Hermann; and Kunkel, Heinrich, 4,696,083, Cl. 29-148.40C.
- Kunkle, Albert C.; and Maxwell, Edgar J., III, to J. M. Huber Corporation. Apparatus for dewatering clay filter cake. 4,680,104, 7-14-87, Cl. 204-300.00R.
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- Kunkle, Gerald E.: *See—*
  - Demarest, Henry M., Jr., Kunkle, Gerald E.; and Moxie, Clement C., 4,634,461, Cl. 65-27.000.
- Kunkle, John P.; and McClune, Donald W., to AMP Incorporated. Surface mount socket for dual in-line package. 4,682,829, 7-28-87, Cl. 439-83.000.
- Kunkle, Richard P.: *See—*
  - Jackovitz, John F.; and Kunkle, Richard P., 4,639,401, Cl. 429-30.000.
- Kunkle, Timothy E.: *See—*
  - Herr, Leroy E.; Shea, Allan K.; and Kunkle, Timothy E., 4,712,768, Cl. 251-305.000.
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  - Matsui, Kazuma; Hattori, Yoshiyuki; Imani, Yuichi; Kuno, Akira; and Nomura, Yoshihisa, 4,687,260, Cl. 303-119.000.
  - Matsumoto, Muneaki; Akita, Shigeyuki; and Kuno, Akira, 4,661,718, Cl. 307-10.00R.
  - Matsumoto, Muneaki; Kuno, Akira; and Numata, Koji, 4,663,719, Cl. 364-444.000.
  - Numata, Koji; Tanaka, Hiroaki; and Kuno, Akira, 4,633,709, Cl. 73-178.00R.
  - Sasaki, Kunihiko; Kodera, Masao; and Kuno, Akira, 4,694,296, Cl. 340-904.000.
  - Tashiro, Syuzaburo; Ina, Toshikazu; Taguchi, Masahiro; Onimaru, Sadahisa; Nakano, Osamu; and Kuno, Akira, 4,707,788, Cl. 364-424.000.
- Kuno, Atsushi: *See—*
  - Takaya, Takao; Takasugi, Hisashi; Kuno, Atsushi; and Sugiyama, Yoshie, 4,698,340, Cl. 514-222.000.
- Kuno, Hiroaki: *See—*
  - Mizuno, Takao; Arata, Tetsuya; Uchikawa, Naoshi; Murayama, Akira; Tamura, Takahiro; and Kuno, Hiroaki, 4,669,962, Cl. 418-55.000.
  - Murayama, Akira; Kuno, Hiroaki; Uchikawa, Naoshi; Tamura, Takahiro; Mizuno, Takao; Aiba, Kazumi; Ikeda, Mitsuo; and Fukatsu, Kiyoshi, 4,690,625, Cl. 418-55.000.
- Kuno, Hironari: *See—*
  - Fukazawa, Takeshi; Kuno, Hironari; Okabe, Naoto; and Hara, Kunihiko, 4,653,443, Cl. 123-145.00A.
- Kuno, Hiroshi: *See—*
  - Aoki, Tadashi; Isobe, Masakazu; and Kuno, Hiroshi, 4,644,760, Cl. 62-324.600.
  - Ueno, Hideo; Kuno, Hiroshi; and Hamabe, Yoshifumi, 4,639,151, Cl. 400-63.000.
  - Ueno, Hideo; Kuno, Hiroshi; and Hamabe, Yoshifumi, 4,671,683, Cl. 400-61.000.
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- Kuno, Kazuo, to NEC Corporation. Semiconductor bipolar memory device operating in high speed. 4,646,268, 2-24-87, Cl. 365-179.000.
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- Kuno, Masashi; and Ogawa, Kimihiro, to Teijin Limited. Polyester composition and process for producing the same. 4,668,732, 5-26-87, Cl. 524-497.000.
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  - Yamada, Hironori; Sayama, Nobuo; and Kuno, Masashi, 4,663,423, Cl. 528-179.000.
- Kuno, Mitsutoshi: *See—*
  - Kanno, Hideo; Yamashita, Shinichi; Enari, Masahiko; Kuno, Mitsutoshi; and Mizutome, Atsushi, 4,714,921, Cl. 340-784.000.
- Kuno, Shozo, to Aisin Seiki Kabushiki Kaisha. Clutch cover. 4,697,678, 10-6-87, Cl. 192-70.280.
- Kuno, Yasuo: *See—*
  - Okuda, Shuji; Shimomura, Hideo; Honda, Kusuo; Kawaguchi, Masato; Kuno, Yasuo; Kumagai, Takenori; and Kato, Nobuo, 4,697,397, Cl. 52-223.00R.
- Kunos, Gene S.: *See—*
  - Cearlock, Steven V.; Peterson, Francis C.; and Kunos, Gene S., 4,657,626, Cl. 156-580.000.
  - Cearlock, Steven V.; Peterson, Francis C.; and Kunos, Gene S., 4,676,707, Cl. 411-510.000.
- Kunst, Marinus: *See—*
  - Tributsch, Helmut; Beck, Gerhard; Kunst, Marinus; Kuppers, Udo; Lewerenz, Hans-Joachim; Lilie, Jochen; and Werner, Andre, 4,700,311, Cl. 364-468.000.
  - Tributsch, Helmut; Beck, Gerhard; and Kunst, Marinus, 4,704,576, Cl. 324-158.00R.
- Kuntz, Irving, to Exxon Chemical Patents Inc. Adamantane polymerization catalyst. 4,711,866, 12-8-87, Cl. 502-152.000.
- Kuntz, Robert J.: *See—*
  - Lingaraju, Bhartoor H.; and Kuntz, Robert J., 4,698,894, Cl. 29-464.000.
- Kuntze-Fechner, Gerald; Friedberger, Otmar; and Hahn, Michael, to Messerschmitt-Bolkow-Blohm GmbH. Rotor, especially for rotary wing aircraft. 4,690,615, 9-1-87, Cl. 416-134.00A.
- Kuntze-Fechner, Gerald: *See—*
  - Hahn, Michael; and Kuntze-Fechner, Gerald, 4,690,616, Cl. 416-134.00A.
- Kuntze, Rupert. Fishing line supply spool and method of use. 4,715,554, 12-29-87, Cl. 242-84.20R.
- Kuntzmann, Jean C.; and Tikes, Jacques, to Thomson-CSF. Circular window for ultra-high frequency waveguide. 4,684,908, 8-4-87, Cl. 333-252.000.
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Suzuki, Shinichi; Tokumo, Akio; **Kunugi, Yoshiro**; and Kato, Masayuki, 4,694,498, Cl. 381-103.000.

Kunugihara, Hiromu; Shimatani, Ryoichi; Kitamura, Satoru; Okamura, Kazuo; and Kanzaki, Nobuyoshi, to Matsushita Electric Industrial Co., Ltd. Method for making anode foil for an aluminum electrolytic capacitor. 4,671,858, 6-9-87, Cl. 204-129.750.

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Kuny, Wilhelm: *See*—

Althaus, Hans-Ludwig; Klann, Jorg; and **Kuny, Wilhelm**, 4,638,343, Cl. 357-17.000.

Kunz AG: *See*—

Dorner, Frank, 4,650,350, Cl. 400-120.000.

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Kunz, Gary L.: *See*—

Gessel, James M.; Jasper, Edward P.; and **Kunz, Gary L.**, 4,706,448, Cl. 56-400.000.

Kunz, Gerhard. Process and apparatus for treatment of fluids, particularly desalinization of aqueous solutions. 4,636,296, 1-13-87, Cl. 204-182.500.

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Peter, Rudolf; Jahnel, Ernst; and **Kunz, Hans-Peter**, 4,690,261, Cl. 192-87.130.

Kunz, Harold R.: *See*—

Gruver, Gary A.; and **Kunz, Harold R.**, 4,636,274, Cl. 156-279.000.

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Kunz, Martin; and Pretzel, Dieter, to Luk Lamellen und Kupplungsbau GmbH. Friction clutch and diaphragm spring therefor. 4,667,793, 5-26-87, Cl. 192-70.120.

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Kunz, Walter: *See*—

Quack, Jochen M.; Reng, Alwin; Skrypzak, Werner; and **Kunz, Walter**, 4,654,163, Cl. 252-312.000.

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Kunze, Kenneth R.: *See*—

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Segal, Marcos; and **Kunze, Michael**, 4,701,523, Cl. 534-634.000.

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Kunze, Norbert, to U. S. Philips Corporation. Switching mechanism for the tape deck of a magnetic-tape-cassette apparatus. 4,661,866, 4-28-87, Cl. 360-96.100.

Kunze, Peter, and Kirsch, Werner, to Wiederaufarbeitungsanlage Karlsruhe Betriebsgesellschaft mbH. Fuel element shears having a stepped blade. 4,715,256, 12-29-87, Cl. 83-694.000.

Kunzel, Jurgen, to Sigri GmbH. Method for dissolving salt encrustations in a heat exchanger. 4,651,655, 3-24-87, Cl. 110-345.000.

Kunzi, Hans-Ulrich: *See*—

Heinemann, Wilfried; Gabriel, Thomas; Reimann, Peter; **Kunzi, Hans-Ulrich**; and Guntherodt, Hans-Joachim, 4,650,618, Cl 264-22.000.

Kunzig, Hermann: *See*—

Hahne, Ernst A.; and **Kunzig, Hermann**, 4,686,069, Cl. 261-92.000.

Kunzinger, Charles A., to International Business Machines Corporation. System for decomposition of NTSC color video signals using two frame buffers. 4,710,801, 12-1-87, Cl. 358-23.000.

Kunzler, Herold. Gripping handle for an attache case having a pivot pin on only one of its leg extensions. 4,663,802, 5-12-87, Cl. 16-124.000.

Kunzler, Jay F.: *See*—

Friends, Gary D.; Melpolder, John B.; **Kunzler, Jay F.**; and Park, Joon S., 4,652,622, Cl. 526-279.000.

Kunzler, Wilhelm F.: *See*—

Falcetta, Joseph J.; and **Kunzler, Wilhelm F.**, 4,645,811, Cl 526-279.000.

Kunzmann, Horst; Schepperle, Karl; and Trieb, Gerhard, to Carl-Zeiss-Stiftung. Multi-coordinate measuring machine. 4,647,206, 3-3-87, Cl 356-358.000.

Kuo, Calven, to Aurora Mechaironecs Corp. Method of manipulating a calculation and device used therewith. 4,680,455, 7-14-87, Cl 235-146.000.

Kuo, Charles C.: *See*—

Mollinger, Paul J.; and **Kuo, Charles C.**, 4,670,181, Cl. 252-186.250.

Kuo, Charles C. Y., to CTS Corporation. Thick film resistive paint and resistors made therefrom. 4,639,391, 1-27-87, Cl. 428-210.000.

Kuo, Charles C. Y., to CTS Corporation. Base metal resistive paints. 4,655,965, 4-7-87, Cl. 252-518.000.

Kuo, Charles C. Y., to CTS Corporation. Base metal resistor. 4,698,265, 10-6-87, Cl. 428-432.000.

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Kuo-Ching, Huang; and Yong-Hung, Lin. Shedding device for a circular weaving machine. 4,694,866, 9-22-87, Cl. 139-13.00R.

Kuo, Dai-Ming. Sterilizer for toilet spray attachment. 4,670,917, 6-9-87, Cl. 4-443.000.

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Kuo, Dai-Ming. Toilet having wire-adjusted water-spray nozzles. 4,691,391, 9-8-87, Cl. 4-447.000.

Kuo, George; Masiarz, Frank R.; Truett, Martha; Valenzuela, Pablo; Rasmussen, Mirella E.; and Favaloro, Jennifer, to Chiron Corporation; and Nordisk Gentofte. Monoclonal antibodies to factor VIIIC. 4,716,117, 12-29-87, Cl. 435-240.270.

Kuo, James C.: *See*—

Derr, W. Rodman, Jr.; Garwood, William E.; **Kuo, James C.**; Leib, Tiberiu M.; Nace, Donald M.; and Tabak, Samuel A., 4,684,756, Cl. 585-330.000.

Kam, Anthony Y.; **Kuo, James C.**; Le, Quang N.; and Smith, Jonah, 4,647,369, Cl. 208-111.000.

Kuo, James R., to Fairchild Camera & Instrument Corp. Monolithic telephone subscriber line interface circuit. 4,712,233, 12-8-87, Cl 379-386.000.

Kuo, Jung-Tsan. Electrical automobile plug. 4,682,139, 7-21-87, Cl 337-186.000.

Kuo, Long-Cho: *See*—

Mar, Shih-Lin; and **Kuo, Long-Cho**, 4,641,844, Cl. 280-30.000.

Kuo, Ming H.: *See*—

Haefner, Kenneth B.; Sweet, Larry M.; and **Kuo, Ming H.**, 4,675,502, Cl. 219-124.340.

Kuo, Richard J.; Mackay, John W.; and Van Buren, Rick L., to Minnesota Mining and Manufacturing Company. Smooth, low-friction magnetic recording medium. 4,693,930, 9-15-87, Cl. 428-323.000.

Kuo, Samuel C., to GTE Government Systems Corporation. Foreshortened dipole antenna with triangular radiators. 4,673,948, 6-16-87, Cl. 343-792.500.

Kuo, Tai-Haur, to Industrial Technology Research Institute. Matching current source. 4,706,013, 11-10-87, Cl. 323-316.000.

Kuo, Tsung H. Refuse incineration system. 4,656,955, 4-14-87, Cl 110-346.000.

Kuo, Youti. Dentifrice dispensing toothbrush. 4,695,177, 9-22-87, Cl. 401-150.000.

Kuo, Youti: *See*—

Shinbrot, Troy; and **Kuo, Youti**, 4,707,113, Cl. 355-14.0SH.

Kuo, Yue. Semiconductor spin coating method. 4,640,846, 2-3-87, Cl 427-82.000.

Kuoni, Xaver, to C.E.T. Construction Eng'g. & Technology Ltd. Apparatus for the endless projection of a cinematographic film. 4,708,447, 11-24-87, Cl. 352-128.000.

Kuosa, Harri; and Kultaranta, Tapani, to Oy Wartsila AB Control device for a roll press. 4,633,774, 1-6-87, Cl. 100-43.000.

Kupcikevicius, Vytautas, to Viskase Corporation. Casing article. 4,641,687, 2-10-87, Cl. 138-118.100.

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Kupec, Peter; Metzner, Uwe; and Thilo, Peer, to Siemens Aktiengesellschaft. Method and arrangement for measuring changes of capacitive state at a security fence. 4,684,932, 8-4-87, Cl. 340-564.000.

Kupeha Kagaku Kogyo Kabushiki Kaisha: *See*—

Okada, Yoshio; Akatsu, Masahiro; and Ohira, Yohichi, 4,714,495, Cl. 106-21.000.

Kuper, Hans-Heinrich; and Gronebaum, Theo. Machine for processing plywood sheets. 4,687,035, 8-18-87, Cl. 144-2.00R.

Kuper, Nina M.; and Kalnajs, Janis I. Decorative tile. 4,687,694, 8-18-87, Cl. 428-156.000.

Kuper, Nina M.; and Kalnajs, Janis I. Decorative tile. 4,693,924, 9-15-87, Cl. 428-170.000.

Kuperman, Gilbert G., to United States of America, Air Force. Sinusoidal determination of limiting optical resolution. 4,653,909, 3-31-87, Cl. 356-124.500.

Kuperman, Gilbert G., to United States of America, Air Force. Matrix display simulation. 4,658,246, 4-14-87, Cl. 340-723.000.

Kupersmit, Carlos A., to Autech Partners Ltd. Self contained data acquisition apparatus and system. 4,672,529, 6-9-87, Cl. 364-130.000.

Kupersmit, Julius B. Multiply corrugated wall construction. 4,663,207, 5-5-87, Cl. 428-119.000.

Kupersmit, Julius B. Strap support system for collapsible shipping containers. 4,688,979, 8-25-87, Cl. 414-403.000.

Kupersmit, Julius B. Multiple display carton shipping package. 4,705,162, 11-10-87, Cl. 206-45.110.

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Nelson, Jeremiah; and Kupersmith, Mark J., 4,676,611, Cl. 351-205.000.

Kuperus, John H. Method of preparing radionuclide doses. 4,638,809, 1-27-87, Cl. 128-653.000.

Kupfer, Hans: *See*—

Schuster, Gert; Vierrath, Helmut; Kupfer, Hans; and Wolf, Heinz, 4,643,739, Cl. 48-86.00R.

Kupfer, Karl-Heinz, to U.S. Philips Corporation. Circuit for automatic gain control. 4,667,167, 5-19-87, Cl. 330-281.000.

Kupfer, Karl-Heinz, to U.S. Philips Corporation. Circuit arrangement for a tuner for changing over several frequency ranges. 4,710,974, 12-1-87, Cl. 455-190.000.

Kupferdraht-Isolierwerk AG Wildegg: *See*—

Voser, Othmar, 4,650,715, Cl. 428-395.000.

Kupferschmidt, Albert; Greene, Tracy D.; and Jaycox, Donald F., to Northern Telecom Limited. Pole mounting connector. 4,700,995, 10-20-87, Cl. 439-276.000.

Kuphal, Eckart; and Burkhard, Herbert, to Siemens Aktiengesellschaft. Method of making InGaAsP and InGaAs double hetero-structure lasers and LEDs. 4,661,175, 4-28-87, Cl. 148-171.000.

Kupiainen, Juhani, to Instrumentarium Corp. Controlled source of current. 4,668,904, 5-26-87, Cl. 323-350.000.

Kupka, Gerhard; and Muller, Hans, to Vereinigte Buchbindereimaschinenfabriken Gesellschaft mit beschrankter Haftung. Gluing apparatus. 4,662,979, 5-5-87, Cl. 156-578.000.

Kupler Corporation: *See*—

Smith, Philip L.; and Caprio, Joseph R., 4,684,196, Cl. 439-411.000.

Kuppenheimer, John D., Jr., to Sanders Associates, Inc. Multi-lamp laser pumping cavity. 4,682,338, 7-21-87, Cl. 372-72.000.

Kuppenheimer, John D., Jr.; and Smith, Kirby A., to Sanders Associates, Inc. Optical detection system. 4,710,630, 12-1-87, Cl. 250-353.000.

Kuppenheimer, John D., Jr.: *See*—

Rines, Glen A.; and Kuppenheimer, John D., Jr., 4,662,726, Cl. 350-444.000.

Kuppens, Bernardus J.: *See*—

Wardenaar, Hendrik C.; and Kuppens, Bernardus J., 4,644,642, Cl. 29-834.000.

Kupper, Anton, to Minnesota Mining and Manufacturing Company. Circuitry for control of the temperature of a heating element adapted to be contacted by a material to be heated. 4,668,851, 5-26-87, Cl. 219-10.770.

Kupper, Gerd; Fenzl, Horst; and Zabinski, Siegfried. Automatic gear box. 4,655,730, 4-7-87, Cl. 474-53.000.

Kupper, Gerd; Zabinski, Siegfried; and Vossen, Burghardt, to Durkopp System Technik GmbH. Bicycle. 4,659,097, 4-21-87, Cl. 280-281.00R.

Kupper, Karl H., to U.S. Philips Corporation. Device for filtering a high-frequency conductor susceptible to electromagnetic interference of a high-frequency space. 4,694,265, 9-15-87, Cl. 333-185.000.

Kupper, Philip L.; Moore, Katherine L.; and Swaine, Robert L., Jr., to Procter & Gamble Company, The. Fruit juice containing diet beverage. 4,690,827, 9-1-87, Cl. 426-548.000.

Kupper, Philip L.; and Morgan, Dan R., to Procter & Gamble Co., The. Beverage opacifier. 4,705,691, 11-10-87, Cl. 426-590.000.

Kupper, Robert J.: *See*—

Chmurny, Alan B.; Gross, Akiva T.; Kupper, Robert J.; and Roberts, Rowena L., 4,710,583, Cl. 560-40.000.

Kupper, Wilhelm; and Hensen, Helmuth. Device for inserting the thread end of a textile bobbin into a bobbin sleeve. 4,634,065, 1-6-87, Cl. 242-18.00R.

Kupper, Wilhelm; and Hensen, Helmuth, to W. Schlafhorst & Co. Device for unloading a coil conveyor. 4,651,865, 3-24-87, Cl. 198-468.200.

Kupper, Wilhelm, to W. Schlafhorst & Co. Installation formed of a spinning machine and a winding machine. 4,660,368, 4-28-87, Cl. 57-281.000.

Kupper, Wilhelm. Apparatus for loading a winding machine with run-off spools or creel bobbins. 4,666,095, 5-19-87, Cl. 242-35.50A.

Kupper, Wilhelm, to W. Schlafhorst & Co. Tube transfer device. 4,681,230, 7-21-87, Cl. 209-615.000.

Kupper, Wilhelm; and Hensen, Helmuth, to W. Schlafhorst & Co. Device for advancing cops to a cyclically stepwise advancing cop conveyor. 4,697,692, 10-6-87, Cl. 198-464.300.

Kuppers, Karl. Mass flow meter. 4,658,657, 4-21-87, Cl. 73-861.380.

Kuppers, Udo: *See*—

Tributsch, Helmut; Beck, Gerhard; Kunst, Marinus; Kuppers, Udo; Lewerenz, Hans-Joachim; Lilie, Jochen; and Werner, Andre, 4,700,311, Cl. 364-468.000.

Kuppinger, Rudi, to Trumpf GmbH & Co. Method and apparatus for nibbling cutouts by rotation of tooling with cutting surfaces of different contours and tooling therefor. 4,674,373, 6-23-87, Cl. 83-49.000.

Kupres, Steven J. Silicone milking unit. 4,651,676, 3-24-87, Cl. 119-14.470.

Kura, Atsushi: *See*—

Hineno, Kazuhiro; and Kura, Atsushi, 4,653,664, Cl. 221-3.000.

Kurabayashi, Hiroyuki: *See*—

Hosaka, Shunichi; Kurabayashi, Hiroyuki; and Inose, Jun, 4,668,602, Cl. 430-207.000.

Kurabo Industries Ltd.: *See*—

Dahne, Claus; and Gross, Daniel, 4,655,225, Cl. 128-633.000.

Kurachi, Hisao; Minaminaka, Kazuyoshi; Ito, Takeo; and Yamakawa, Kiyoshi, to Brother Kogyo Kabushiki Kaisha. Data entry keyboard. 4,701,579, 10-20-87, Cl. 200-5.00A.

Kurachi, Tomoko: *See*—

Ogaki, Hirokazu; Funahashi, Yasuhiro; Koie, Hiroshi; and Kurachi, Tomoko, 4,674,055, Cl. 364-479.000.

Kurachi, Yasuo; Arai, Katsuhiko; Wada, Hiroaki; Watabe, Yoji; and Irako, Sanae, to Bridgestone Corporation. Method of producing silicon carbide. 4,702,900, 10-27-87, Cl. 423-345.000.

Kurafuji, Hiroshi, to Citizen Watch Co., Ltd. Cartridge type floppy disk drive. 4,686,594, 8-11-87, Cl. 360-99.000.

Kurahashi, Kazuo; and Onodera, Nobutoshi, to Nippon Gakki Seizo Kabushiki Kaisha. Clad material for ornamental use. 4,666,795, 5-19-87, Cl. 428-660.000.

Kurahashi, Takashi: *See*—

Nakamura, Kanehito; Matsui, Kazuma; Kurahashi, Takashi; and Ishikawa, Hiroshi, 4,636,643, Cl. 250-338.000.

Watanabe, Kenshu; Uchikawa, Tadashi; Takiyama, Masashi; and Kurahashi, Takashi, 4,648,425, Cl. 137-557.000.

Kurahashi, Yoshio; Shiokawa, Kozo; Goto, Toshio; Kagabu, Shinzo; Matsumoto, Noboru; and Moriya, Koichi, to Nihon Tokushu Noyaku Seizo K.K. Salicylamide derivatives. 4,708,953, 11-24-87, Cl. 514-166.000.

Kurahashi, Yoshio; Shiokawa, Kozo; Kagabu, Shinzo; Sakawa, Shinji; and Moriya, Koichi, to Nihon Tokushu Noyaku Seizo K.K. Novel N-benzyl-cyclopropanecarboxamide fungicides. 4,710,518, 12-1-87, Cl. 514-624.000.

Kurahashi, Yoshio: *See*—

Kume, Toyohiko; Kurahashi, Yoshio; Isono, Kunihiro; Sakawa, Shinji; and Matsumoto, Noboru, 4,700,006, Cl. 568-67.000.

Saito, Junichi; Tamura, Tatsuo; Kurahashi, Yoshio; Uzawa, Shigeru; Matsumoto, Noboru; and Yamaguchi, Naoko, 4,710,509, Cl. 514-384.000.

Kurai, Nobuyoshi: *See*—

Tominaga, Nobuyoshi; Kurai, Nobuyoshi; Ueno, Hajime; and Suzuki, Sadahide, 4,633,826, Cl. 123-90.310.

Tominaga, Nobuyoshi; Kurai, Nobuyoshi; Ueno, Hajime; and Suzuki, Sadahide, 4,637,354, Cl. 123-55.0VF.

Kuraishi, Tadayuki: *See*—

Sato, Susumu; Honda, Haruyoshi; Koumoto, Teruo; Isomae, Kazuo; Kuraishi, Tadayuki; and Katori, Tatsuhiko, 4,659,710, Cl. 514-234.000.

Sato, Susumu; Honda, Haruyoshi; Koumoto, Teruo; Isomae, Kazuo; Kuraishi, Tadayuki; and Katori, Tatsuhiko, 4,690,924, Cl. 514-237.000.

Kuraiyama, Haruo: *See*—

Sato, Nobukatsu; Kuraiyama, Haruo; and Agou, Masanobu, 4,714,764, Cl. 546-271.000.

Kurakake, Mitsuo; Sakamoto, Keiji; and Toyosawa, Yukio, to Fanuc Ltd. Servomotor velocity control method. 4,680,518, 7-14-87, Cl. 318-561.000.

Kurakake, Mitsuo; Sakamoto, Keiji; and Toyosawa, Yukio, to Fanuc Ltd. Servomotor velocity control system. 4,695,780, 9-22-87, Cl. 318-561.000.

Kurakake, Sigeo; and Ogasawara, Satoshi, to Casio Computer Co., Ltd. Computer for forming a table by selecting a program language mode during a table mode. 4,661,904, 4-28-87, Cl. 364-200.000.

Kurakake, Yasushi, to Nippon Gakki Seizo Kabushiki Kaisha. Apparatus for and method of producing automatic music accompaniment from stored accompaniment segments in an electronic musical instrument. 4,704,933, 11-10-87, Cl. 84-1.030.

Kurakata, Ryo, to Citizen Watch Co., Ltd. Coating film by ion plating. 4,643,952, 2-17-87, Cl. 428-472.000.

Kurama, Kenichiro; and Shibata, Michiyasu, to Mazda Motor Corporation; and Nippon Kokan Kabushiki Kaisha. Rod chucking device for a perforator for perforating a pig iron discharge opening in a blast furnace. 4,682,780, 7-28-87, Cl. 279-79.000.

- Kurami, Kunihiko: *See—*
  - Takahashi, Tohru; and Kurami, Kunihiko, 4,639,652, Cl. 318-568.000.
- Kuramitsu, Wataru: *See—*
  - Okuda, Kazuhiro; Tanaka, Makoto; and Kuramitsu, Wataru, 4,641,830, Cl. 271-274.000.
- Kuramitsu, Yuzi: *See—*
  - Hagihara, Takashi; and Kuramitsu, Yuzi, 4,685,211, Cl. 29-832.000.
- Kuramochi, Koujiro: *See—*
  - Kubo, Seitoku; Kuramochi, Koujiro; and Kyushima, Tatsuo, 4,676,123, Cl. 74-695.000.
  - Shirai, Ryoichi; Yokoyama, Fumitomo; and Kuramochi, Koujiro, 4,645,441, Cl. 418-126.000.
  - Takahashi, Tokuyuki; Kuramochi, Koujiro; and Sayou, Syoichi, 4,690,239, Cl. 180-249.000.
  - Yamada, Yoshihiro; Kawamoto, Mutsumi; Iwatsuki, Tatsuya; and Kuramochi, Koujiro, 4,646,890, Cl. 192-30.00V.
  - Yokoyama, Fumitomo; Kuwayama, Yoshinari; Tatsuta, Mitsugu; and Kuramochi, Koujiro, 4,683,903, Cl. 137-56.000.
- Kuramochi, Kouziro: *See—*
  - Kato, Shogo; Takase, Jun; Okada, Masanori; and Kuramochi, Kouziro, 4,653,346, Cl. 74-701.000.
- Kuramochi, Osamu: *See—*
  - Tanaka, Hidetake; Niki, Akio; and Kuramochi, Osamu, 4,674,895, Cl. 400-121.000.
- Kuramochi, Wataru: *See—*
  - Takeda, Mitsuru; and Kuramochi, Wataru, 4,673,626, Cl. 430-14.000.
- Kuramori, Ken: *See—*
  - Taketani, Toshinobu; Kuramori, Ken; Sakamoto, Sunji; and Fujii, Hiroshi, 4,683,651, Cl. 29-786.000.
- Kuramoto, Akio: *See—*
  - Itou, Hiroshi; Okane, Yukihiro; and Kuramoto, Akio, 4,693,222, Cl. 123-432.000.
- Kuramoto, Kikuzo: *See—*
  - Ono, Tatsuo; and Kuramoto, Kikuzo, 4,646,928, Cl. 220-6.000.
  - Ono, Tatsuo; Masuda, Akira; and Kuramoto, Kikuzo, 4,684,034, Cl. 220-6.000.
- Kuramoto, Masahiko: *See—*
  - Ishihara, Nobuhide; Kuramoto, Masahiko; and Uoi, Michitake, 4,680,353, Cl. 526-160.000.
- Kuramoto, Nobuyuki; Takada, Kazuya; and Numata, Yoshihiko, to Tokuyama Soda Kabushiki Kaisha. Composite nitride sintered body. 4,642,298, 2-10-87, Cl. 501-96.000.
- Kuramoto, Satoru: *See—*
  - Tsukamoto, Hidehiko; Kohmoto, Eiji; Asada, Koichi, deceased; Yamasaki, Masakuni; Matsumoto, Kenichi; Nakazono, Euji; Wakamiya, Yoshinori; and Kuramoto, Satoru, 4,672,830, Cl. 72-8.000.
- Kuramoto, Terumasa: *See—*
  - Shinyagaito, Tatsuya; Kuramoto, Terumasa; Machida, Toyotaka; Saito, Kikuji; Shichijo, Shunichi; Yamagishi, Tooru; Kobayashi, Yoshinao; Ishii, Kazuyoshi; and Hirata, Atsumi, 4,695,904, Cl. 358-342.000.
  - Shinyagaito, Tatsuya; Kuramoto, Terumasa; Machida, Toyotaka; Saito, Kikuji; Shichijo, Shunichi; Yamagishi, Tooru; Ishii, Kazuyoshi; Kobayashi, Yoshinao; and Hirata, Atsumi, 4,707,733, Cl. 358-342.000.
- Kuramoto, Yasuo. Wax ring tube with graduations. 4,687,178, 8-18-87, Cl. 249-53.00R.
- Kuramoto, Yukimasa; and Tanaka, Eiichiro, to Matsushita Electric Industrial Co., Ltd. Development system for photoreceptor having surface potential and a large amount of charge. 4,657,374, 4-14-87, Cl. 355-3.00R.
- Kuramoto, Yukimasa; Oonishi, Hajimu; Sakai, Yukio; Hayashi, Yoshiki; and Wells, Robert C., to Matsushita Electric Industrial Co., Ltd. Copying apparatus for synthesizing images. 4,660,961, 4-28-87, Cl. 355-4.000.
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- Kuranaga, Tutomu: *See—*
  - Shirai, Yoshinari; and Kuranaga, Tutomu, 4,637,373, Cl. 126-340.000.
- Kurando, Shigeo: *See—*
  - Kai, Masami; Kurando, Shigeo; Katafuchi, Toshinobu; Amakawa, Katsumi; and Kajitani, Tetsuji, 4,659,206, Cl. 355-3.0DR.
- Kuranishi, Masaaki; and Aiba, Masahiko, to Sharp Kabushiki Kaisha. Ink cartridge in an ink jet system printer. 4,700,202, 10-13-87, Cl. 346-140.00R.
- Kurano, Akira: *See—*
  - Nakamura, Katsunori; Kurano, Akira; Shiroyanagi, Yoshiro; and Kishiro, Shigeru, 4,688,221, Cl. 371-13.000.
- Kuraoka, Hiroaki, to Nippondenso Co., Ltd. Method and apparatus for controlling heater of a gas sensor. 4,708,777, 11-24-87, Cl. 204-1.00T.
- Kuraoka, Koji; Umeda, Morio; Konishi, Takeshi; and Tuchiya, Takanori, to Mazda Motor Corporation. Open-top vehicle having a power operated roof structure. 4,700,982, 10-20-87, Cl. 296-107.000.
- Kuraoka, Koji: *See—*
  - Fukutomi, Hisao; Konishi, Takeshi; Kuraoka, Koji; Umeda, Morio; Tuchiya, Takanori; and Imura, Yutaka, 4,695,089, Cl. 296-107.000.
  - Imura, Yutaka; Konisi, Takesi; Tuchiya, Takanori; Umeda, Morio; Fukutomi, Hisao; and Kuraoka, Koji, 4,651,470, Cl. 49-502.000.
- Kuraray Co., Ltd.: *See—*
  - Akazawa, Toshiyuki; Tanaka, Yoshinari; and Okaya, Takuji, 4,640,870, Cl. 428-483.000.
  - Aoyama, Akimasa; Moritani, Takeshi; Yonezu, Kiyoshi; Negi, Taichi; and Okaya, Takuji, 4,713,296, Cl. 428-412.000.
  - Asakawa, Yoshinori, 4,659,509, Cl. 252-522.00R.
  - Endo, Hideki; Hashimoto, Kazuto; Tanaka, Kenji; Matsumoto, Takeshi; Igi, Keishiro; Okamura, Takayuki; Taniguchi, Shunro; Ishii, Masao; Murata, Yoshifumi; and Yokota, Shinichi, 4,657,973, Cl. 525-67.000.
  - Gion, Hidenori; Kubota, Kenji; Nakamura, Michihiro; and Yano, Makoto, 4,641,249, Cl. 364-496.000.
  - Gion, Hidenori; Yoda, Takumi; Kirita, Yasuzo; Zaima, Kazuhito; and Kurata, Noriyuki, 4,715,849, Cl. 604-52.000.
  - Hino, Kenichi; Yamauchi, Junichi; and Nishida, Koji, 4,668,712, Cl. 522-13.000.
  - Hirai, Koji; Taniguchi, Shunro; Ishiguro, Michihiro; Murata, Yoshifumi; Yokota, Shinichi; Ishii, Masao; Yoshimura, Noriaki; and Okamura, Takayuki, 4,639,471, Cl. 521-172.000.
  - Ibata, Koichi; Takigawa, Tetsuo; Okada, Masafumi; Mizuno, Masao; and Nishida, Takashi, 4,668,820, Cl. 560-248.000.
  - Ishii, Masao; and Igi, Keishiro, 4,659,615, Cl. 428-220.000.
  - Kameyama, Tsutomu; Kitamura, Jiro; Takigawa, Tetsuo; and Mizuno, Masao, 4,703,061, Cl. 514-551.000.
  - Kanehira, Koichi; Shiono, Manzo; Fujita, Yoshiji; Nishida, Takashi; and Yamahara, Johji, 4,681,890, Cl. 514-333.000.
  - Komiya, Yukiatsu; and Hirai, Koji, 4,704,445, Cl. 528-49.000.
  - Makimura, Masaru; and Yamashita, Setsuo, 4,663,221, Cl. 428-224.000.
  - Maruyama, Hitoshi; Ono, Isao; Kohno, Hiroji; Yamauchi, Junnosuke; and Okaya, Takuji, 4,708,947, Cl. 503-209.000.
  - Morioka, Tohru; Terasaki, Hidenori; Akasu, Hiroyuki; Nakase, Akiyoshi; and Takase, Kohichi, 4,650,457, Cl. 604-4.000.
  - Murayama, Yoichi, 4,645,685, Cl. 427-39.000.
  - Nakamura, Seishiro; and Oukami, Katsutoshi, 4,699,742, Cl. 264-56.000.
  - Negi, Taichi; Kawasaki, Akihiko; and Ikari, Kyoichiro, 4,645,695, Cl. 428-35.000.
  - Ohnishi, Takashi; Suzuki, Shigeaki; Fujita, Yoshiji; and Nishida, Takashi, 4,659,510, Cl. 252-522.00R.
  - Ohyabu, Shuzo; Kawai, Syuji; Okamoto, Takehiko; and Migaki, Takao, 4,664,669, Cl. 623-66.000.
  - Okaya, Takuji; Tanaka, Yoshinari; Yonezu, Kiyoshi; Aoyama, Akimasa; and Moritani, Takeshi, 4,636,551, Cl. 525-60.000.
  - Omura, Ikuo; Higaki, Tatsuhiko; and Yamauchi, Junichi, 4,648,344, Cl. 433-217.100.
  - Omura, Ikuo; Yamauchi, Junichi; Nagase, Yoshinori; and Uemura, Fumiko, 4,650,847, Cl. 526-376.000.
  - Sato, Toshiaki; Yamauchi, Junnosuke; and Okaya, Takuji, 4,638,024, Cl. 524-22.000.
  - Sato, Toshiaki; Yamauchi, Junnosuke; and Okaya, Takuji, 4,654,294, Cl. 430-281.000.
  - Sato, Toshiaki; Yamauchi, Junnosuke; and Okaya, Takuji, 4,699,950, Cl. 525-185.000.
  - Satoh, Kenji; Kaneshige, Isao; and Ikari, Kyoichiro, 4,684,564, Cl. 428-216.000.
  - Shiono, Manzo; Fujita, Yoshiji; and Nishida, Takashi, 4,694,090, Cl. 549-407.000.
  - Shirai, Tsuneo; and Suzuki, Koji, 4,645,583, Cl. 204-435.000.
  - Tada, Hiroshi; Kido, Masanari; Masunaga, Hidehiko; Iwamoto, Toshiaki; Ishimoto, Tuneyoshi; and Matsui, M., 4,666,782, Cl. 428-423.900.
  - Tamai, Yoshin; Yamamoto, Fumito; Shiono, Manzo; Kanehira, Koichi; Ozasa, Hiroshi; and Nomoto, Kaoru, 4,656,195, Cl. 514-772.000.
  - Tanaka, Junsuke; and Matsumoto, Kenji, 4,657,994, Cl. 526-68.000.
  - Tokitoh, Yasuo; and Yoshimura, Noriaki, 4,663,468, Cl. 549-273.000.
  - Yamamoto, Fumio; Suzuki, Takayoshi; Ikari, Masahiro; Saito, Susumu; Ohmori, Akira; and Yasuhara, Takashi, 4,684,705, Cl. 526-246.000.
  - Yoshikawa, Tadao; and Nagata, Shiro, 4,686,143, Cl. 428-411.100.
  - Yoshizawa, Tamae; Otsuka, Kiyoto; Nagata, Shiro; and Takamatsu, Hideo, 4,678,841, Cl. 525-353.000.
- Kurasawa, Takanao: *See—*
  - Kurosawa, Yukio; Iwashita, Kiyoji; Matumoto, Morihisa; Kurasawa, Takanao; and Endo, Syunkichi, 4,704,506, Cl. 200-144.00B.
- Kurashige, Masafumi; and Ota, Yoshiyuki, to Sony Corporation. Video signal processing apparatus. 4,668,985, 5-26-87, Cl. 358-134.000.
- Kurashige, Mitsuhiro: *See—*
  - Takayama, Shigehiko; Suzuki, Hitomi; Maruyama, Masanori; Fukushima, Masakazu; and Kurashige, Mitsuhiro, 4,713,588, Cl. 315-382.060.
- Kurashiki Boseki Kabushiki Kaisha: *See—*
  - Akiyama, Shigeo; and Satou, Shigeji, 4,705,224, Cl. 242-35.60E.
  - Miyagi, Tokuya; Inoue, Akihisa; Hamada, Katushi; Fujimori, Shoichi; and Hori, Yoshihiro, 4,663,041, Cl. 210-493.200.
  - Wada, Atsuki; Takahashi, Mikio; and Suhara, Eiji, 4,673,493, Cl. 210-98.000.
- Kurashima, Akira; Machiya, Akira; and Yamaguchi, Goichi, to C. S. Kaseihin Company Inc. Process for preparation of silicon-containing isocyanate compounds. 4,654,428, 3-31-87, Cl. 556-414.000.
- Kurata, Eijiro: *See—*
  - Uno, Nobuyoshi; Isa, Takayoshi; Kurata, Eijiro; and Tamasaki, Hidetoshi, 4,659,267, Cl. 411-5.000.

- ta, Hidenori, to Nissan Motor Co., Ltd. Steering system equipped th steering wheel center pad anti-rotation mechanism. 4,633,731, -87, Cl. 74-492.000.
- ta, Ikuro; Hayashi, Hideaki; Sugiyama, Kazumi; and Kuboi, nihiko, to Inax Corporation. Unit tile pack manufacturing appara- , 4,654,108, 3-31-87, Cl. 156-561.000.
- ta, Kazuyuki: *See—*
  - Araki, Yasuo; and Kurata, Kazuyuki, 4,699,502, Cl. 355-14.00E.
- ta, Kouichi: *See—*
  - Kimura, Shigeo; and Kurata, Kouichi, 4,691,060, Cl. 568-420.000.
- ta, Masami: *See—*
  - Hirai, Masato; Kurata, Masami; and Yoshino, Ryozo, 4,697,047, Cl. 178-2.00C.
  - Ishikawa, Noriyoshi; Takahashi, Haruhiko; Funato, Hitoshi; Leng, Svay; Saitoh, Hiroyuki; Ohmori, Takashi; Kurata, Masami; and Katou, Yasuo, 4,661,703, Cl. 250-317.100.
  - Leng, Svay; Saitoh, Hiroyuki; Inui, Toshiharu; Koizumi, Norihiko; Moriguchi, Haruhiko; Omori, Takashi; Kurata, Masami; and Katoh, Yasuo, 4,638,372, Cl. 358-296.000.
  - Saitoh, Hiroyuki; Kurata, Masami; and Omori, Takashi, 4,636,081, Cl. 356-402.000.
  - Saitoh, Hiroyuki; and Kurata, Masami, 4,652,913, Cl. 358-75.000.
  - Takahashi, Haruhiko; Inui, Toshiharu; Saitoh, Hiroyuki; Ishikawa, Noriyoshi; Funato, Hitoshi; Ohmori, Takashi, Kurata, Masami; and Katou, Yasuo, 4,709,149, Cl. 250-317.100.
- ata, Masaru: *See—*
  - Takaoka, Michio; Motai, Tsuneaki; Ono, Motoyuki; Kaji, Isao; Hasegawa, Masakazu; Tan, Masayuki; and Kurata, Masaru, 4,701,117, Cl. 425-116.000.
- ata, Masayuki: *See—*
  - Maehara, Toshifumi; and Kurata, Masayuki, 4,640,391, Cl. 188-353.000.
- ata, Mitsuru: *See—*
  - Inoue, Yutaka; Kurata, Mitsuru; Kasama, Nobuhiro; Hosaka, Masao; Yagasaki, Toshiaki; Tanioka, Hiroshi; and Yamakawa, Tadashi, 4,714,940, Cl. 355-3.00R.
  - Tanioka, Hiroshi; Yamakawa, Tadashi; Inoue, Yutaka; Hosaka, Masao; Yagasaki, Toshiaki; Kasama, Nobuhiro; and Kurata, Mitsuru, 4,646,249, Cl. 364-518.000.
- rata, Noboru, to Honda Giken Kogyo Kabushiki Kaisha. Power ansmission device of four wheel drive vehicle. 4,704,920, 11-10-87, l. 74-665.0GC.
- rata, Nobutaka: *See—*
  - Kajioka, Yasuo; Komine, Tomio; Kadowaki, Hitoshi; Matsuda, Shigeyoshi; Yugami, Yoshinori; Kubota, Shinya; Takahashi, Yoshio; Shimada, Hiroshi; and Kurata, Nobutaka, 4,709,899, Cl. 249-20.000.
- rata, Norihiro: *See—*
  - Motodate, Shoji; Morino, Yuichi; and Kurata, Norihiro, 4,710,599, Cl. 200-61.850.
- rata, Noriyuki: *See—*
  - Gion, Hidenori; Yoda, Takumi; Kirita, Yasuzo; Zaima, Kazuhito; and Kurata, Noriyuki, 4,715,849, Cl. 604-52.000.
- rata, Shuhei: *See—*
  - Graham, Kenneth W.; Norton, Edward J.; and Kurata, Shuhei, 4,654,983, Cl. 36-30.00R.
- rata, Takatsugu: *See—*
  - Yokoyama, Toshinobu; Watanabe, Sadao; and Kurata, Takatsugu, 4,714,863, Cl. 315-366.000.
- rata, Yasunori: *See—*
  - Obe, Mitsuhiko; Kawai, Isamu; Nakata, Masaru; Oisi, Katumi; Shimizu, Yosaburo; Fukawatase, Katsushi; Nishikawa, Takao; Hinoue, Kenji; Arisawa, Susumu; Sato, Kenichi; Kurata, Yasunori; and Sato, Kengo, 4,650,242, Cl. 296-190.000.
- uratle, Christoph: *See—*
  - Ott, Ernst; and Kuratle, Christoph, 4,665,687, Cl. 57-417.000.
- urauchi, Yasuhiro: *See—*
  - Mori, Takashi; Fukuda, Kenichi; and Kurauchi, Yasuhiro, 4,707,234, Cl. 204-182.300.
- urazono, Shuichi: *See—*
  - Mita, Hideo; and Kurazono, Shuichi, 4,705,097, Cl. 165-4.000.
- urcbart, Roberto; and Scheid, William J., to Motorola, Inc. Pocket clip with integral display. 4,654,631, 3-31-87, Cl. 340-311.100.
- urcbart, Roberto: *See—*
  - McKee, John M.; and Kurcbart, Roberto, 4,704,740, Cl. 455-348.000.
- ure, Tokuo: *See—*
  - Tamaki, Yoichi; Kure, Tokuo; Sato, Akira; and Higuchi, Hisayuki, 4,635,090, Cl. 357-50.000.
- urebayashi, Kimie: *See—*
  - Yoshimura, Motokazu; Hirata, Koichi; and Kurebayashi, Kimie, 4,688,192, Cl. 364-900.000.
- urecka, Donald J.: *See—*
  - Westercamp, Kenneth L.; Kurecka, Donald J.; and Yeack, David C., 4,683,971, Cl. 180-79.100.
- ureha Chemical Industry Co., Ltd.: *See—*
  - Hatanaka, Masayoshi; and Uekita, Tadayuki, 4,667,095, Cl. 250-226.000.
  - Hori, Saburo; and Watanabe, Nobuhiro, 4,685,937, Cl. 51-309.000.
  - Kato, Ippei; Takasu, Masao; and Maruyama, Nobuo, 4,645,566, Cl. 162-138.000.
  - Komiyama, Hiroshi, 4,654,228, Cl. 427-180.000.
  - Kurita, Ryuichi; and Hori, Saburo, 4,665,040, Cl. 501-105.000.
  - Sakagami, Teruo; Arakawa, Noriyuki; and Murayama, Naohiro, 4,650,833, Cl. 525-356.000.
  - Sawa, Yuhji; and Itoh, Toshio, 4,664,161, Cl. 141-114.000.
- Kureha Gosen Kabushiki Kaisha: *See—*
  - Fukuda, Ken; and Ueba, Hisaaki, 4,690,849, Cl. 428-91.000.
- Kureha Kagaku Kogyo Kabushiki Kaisha: *See—*
  - Aoki, Katsumichi; Shida, Takafumi; Kanda, Yoichi; Satake, Keigo; Shinkawa, Hiroyasu; and Yamazaki, Shiro, 4,650,515, Cl. 71-90.000.
  - Aoki, Katsumichi; Shida, Takafumi; Arabori, Hideo; Kumazawa, Satoru; Shimizue, Susumu; Watanave, Takeo; Kanda, Yohichi; Satake, Keigo; Yamazaki, Shiro; Shinkawa, Hiroyasu; and Chida, Tsuneaki, 4,690,704, Cl. 71-90.000.
  - Enari, Hiroyuki; Konai, Yutaka; Akiba, Uichi; and Ito, Masayo, 4,668,815, Cl. 560-55.000.
  - Endo, Hiroshi; Katoh, Masao; and Hino, Kuniaki, 4,681,764, Cl. 424-125.000.
  - Fukuda, Hiroyuki; Shigeta, Masatomo; Kaji, Hisatsugu; and Saitoh, Kuniyuki, 4,686,072, Cl. 264-29.500.
  - Fukuda, Ken; and Ueba, Hisaaki, 4,690,849, Cl. 428-91.000.
  - Iizuka, Akira; Konai, Yutaka; Yamauchi, Takashi; and Hayashi, Shoichiro, 4,638,087, Cl. 562-467.000.
  - Iizuka, Yo; Iwasaki, Takao; Katto, Takayuki; and Shiiki, Zenya, 4,645,826, Cl. 528-388.000.
  - Inokuchi, Kiyoshi; Sugimachi, Keizo; Shirakami, Toshiharu; Kai, Hidenobu; Kawai, Yoshio; and Hotta, Tetsuya, 4,676,258, Cl. 128-804.000.
  - Kaminaga, Tetsuo; Shigeta, Masatomo; and Fukuda, Hiroyuki, 4,675,094, Cl. 204-294.000.
  - Kanno, Akihiko; Muto, Shigeaki; Niimura, Koichi; Ando, Takao; Fujii, Takayoshi; Fujii, Masahiko; Furusho, Takao; and Yoshikumi, Chikao, 4,690,920, Cl. 514-201.000.
  - Katto, Takayuki; Komatsu, Yasumasa; and Shiiki, Zenya, 4,636,553, Cl. 525-67.000.
  - Katto, Takayuki; Tada, Masahito; Kouyama, Toshitaka; and Iizuka, Yo, 4,659,789, Cl. 525-537.000.
  - Katto, Takayuki; and Ichikawa, Yukio, 4,699,975, Cl. 528-486.000.
  - Katto, Takayuki; Komatsu, Yasumasa; and Shiiki, Zenya, 4,701,495, Cl. 525-75.000.
  - Koshugi, Junichi, 4,666,861, Cl. 436-161.000.
  - Mizuno, Toshiya, 4,667,001, Cl. 526-255.000.
  - Mizuno, Toshiya, 4,670,527, Cl. 526-255.000.
  - Murayama, Naohiro; Kakutani, Haruko; Mizuno, Toshiya; Nakamura, Kenichi; and Terasaki, Syuji, 4,656,234, Cl. 526-255.000.
  - Muto, Shigeaki; Ando, Takao; Fujii, Takayoshi; Kanno, Akihiko; Onishi, Yoko; Motokawa, Isamu; Furusho, Takao; and Yoshikumi, Chikao, 4,681,877, Cl. 514-206.000.
  - Ohsugi, Katsuhisa; Ichida, Junji; and Takahashi, Eisaku, 4,668,627, Cl. 435-119.000.
  - Ohya, Masaki; Nishimoto, Yoshiharu; and Shibuya, Kunio, 4,699,846, Cl. 428-516.000.
  - Okada, Yoshio; and Igarashi, Yuriko, 4,640,847, Cl. 427-150.000.
  - Okada, Yoshio; Ahiko, Nobuo; and Igarashi, Yuriko, 4,654,251, Cl. 428-202.000.
  - Okada, Yoshio; and Igarashi, Yuriko, 4,670,344, Cl. 428-402.210.
  - Okada, Yoshio; and Igarashi, Yuriko, 4,677,449, Cl. 503-206.000.
  - Okada, Yoshio; Ahiko, Nobuo; and Igarashi, Yuriko, 4,696,856, Cl. 428-321.500.
  - Okada, Yoshio; Nakamura, Tadashi; and Ohhira, Youichi, 4,699,658, Cl. 106-21.000.
  - Okada, Yoshio; Nakamura, Tadashi; and Ohhira, Youichi, 4,699,659, Cl. 106-21.000.
  - Osugi, Katsuhisa; Ichinose, Isao; Takahashi, Eisaku; and Arahira, Masato, 4,684,664, Cl. 514-475.000.
  - Sakagami, Teruo; Fujii, Yasufumi; and Murayama, Naohiro, 4,644,025, Cl. 526-261.000.
  - Sakagami, Teruo; Fujii, Yasufumi; and Murayama, Naohiro, 4,704,006, Cl. 350-409.000.
  - Shigeta, Masatomo; Fukuda, Hiroyuki; Kaji, Hisatsugu; and Saitoh, Kuniyuki, 4,664,988, Cl. 429-44.000.
  - Shigeta, Masatomo; Saitoh, Kuniyuki; and Fukuda, Hiroyuki, 4,666,755, Cl. 428-188.000.
  - Shigeta, Masatomo; Saitoh, Kuniyuki; and Fukuda, Hiroyuki, 4,687,607, Cl. 264-29.500.
  - Shimada, Masaaki; Saito, Koji; and Midorikawa, Yoshiaki, 4,705,702, Cl. 427-180.000.
  - Sogawa, Akira; Inokuchi, Kiyoshi; Sugimachi, Keizo; Kai, Hidenobu; Hotta, Tetsuya; and Kawai, Yoshio, 4,662,383, Cl. 128-784.000.
  - Teramoto, Yoshikichi; Nakamura, Kenichi; and Murayama, Naohiro, 4,687,803, Cl. 524-413.000.
  - Ueno, Saburo; Yoshikumi, Chikao; Omura, Yoshio; Fujii, Takayoshi; Wada, Toshihiko; Takahashi, Eiichi; and Hirose, Fumio, 4,699,787, Cl. 424-95.000.
  - Yamauchi, Takashi; Hayashi, Shoichiro; and Sasakawa, Atsushi, 4,681,978, Cl. 562-413.000.
  - Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,637,998, Cl. 514-42.000.
  - Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,649,133, Cl. 514-42.000.
  - Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,657,895, Cl. 514-42.000.
  - Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,663,312, Cl. 514-42.000.

Yoshikumi, Chikao; Fujii, Takayoshi; Furusho, Takao; Matsunaga, Kenichi; Ohara, Minoru; and Kobayashi, Akira. 4,663,438, Cl. 530-395.000.

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Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao. 4,708,950, Cl. 514-42.000.

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Nakayama, Toshiaki; Kohama, Tokio; Okada, Isamu; and Yokoyama, Tamio. 4,702,940, Cl. 427-244.000.

Kurematsu, Katsumi: *See—*

Tsuda, Tadayuki; and Kurematsu, Katsumi. 4,702,591, Cl. 355-15.000.

Kurematsu, Masayuki: *See—*

Kobayashi, Kazuhiro; Koboshi, Shigeharu; Kuse, Satoru; Miyaoka, Kazuyoshi; and Kurematsu, Masayuki. 4,705,377, Cl. 354-322.000.

Kobayashi, Kazuhiro; Koboshi, Shigeharu; Kuse, Satoru; Miyaoka, Kazuyoshi; Kurematsu, Masayuki; and Uchida, Makoto. 4,705,379, Cl. 354-324.000.

Miyaoka, Kazuyoshi; Kobayashi, Kazuhiro; Kuse, Satoru; Kurematsu, Masayuki; and Koboshi, Shigeharu. 4,705,378, Cl. 354-324.000.

Kures, Vasek J.: *See—*

Patel, Mansukh M.; Reed, Michael A.; Wokas, William J.; and Kures, Vasek J., 4,671,961, Cl. 426-3.000.

Patel, Mansukh M.; Reed, Michael A.; Wokas, William J.; and Kures, Vasek J., 4,671,967, Cl. 426-658.000.

Kureth, Jean-Bernard: *See—*

Heyraud, Marc A.; and Kureth, Jean-Bernard. 4,684,860, Cl. 318-696.000.

Kurfurst, Wilhelm: *See—*

Konig, Johannes; Kurfurst, Wilhelm; Willers, Hans-Gunther;: and Reuter, Martin. 4,688,937, Cl. 356-153.000.

Kuribayashi, Hiroshi: *See—*

Sauda, Kenzo; Yokota, Akitoshi; Yagi, Takuro; Kuribayashi, Hiroshi; Kita, Saburo; Shibata, Setsuo; and Ogawa, Hirofusa. 4,661,290, Cl. 252-626.000.

Kuribayashi, Kiyoshi; Sakai, Masayuki; Monji, Hideto; Aoki, Masaki; Okinaka, Hideyuki; and Torii, Hideo, to Matsushita Electric Industrial Co., Ltd. Mold for press-molding glass optical elements and a molding method using the same. 4,685,948, 8-11-87, Cl. 65-26.000.

Kuribayashi, Masaki; Nakazawa, Toshihiko; and Kanbe, Junichiro, to Canon Kabushiki Kaisha. Ferroelectric display panel and driving method therefor to achieve gray scale. 4,709,995, 12-1-87, Cl. 350-350.00S.

Kuribayashi, Michio, to Fuji Photo Film Co., Ltd. Conversion of line sequential television color signal to simultaneous signals by alternating carrier phase injection. 4,660,071, 4-21-87, Cl. 358-11.000.

Kuribayashi, Tetsuzo: *See—*

Yanai, Eiji; and Kuribayashi, Tetsuzo. 4,693,213, Cl. 122-7.00R.

Kuribayashi, Yukio, to Aica Kogyo Co., Ltd. Key sensing system. 4,716,400, 12-29-87, Cl. 340-572.000.

Kurihara, Haruki; Sagara, Minoru; Matumoto, Kenji; and Tamura, Hideo, to Kabushiki Kaisha Toshiba. Semiconductor laser. 4,639,925, 1-27-87, Cl. 372-46.000.

Kurihara, Haruki; Tamura, Hideo; Suzuki, Kazuo; and Matsumoto, Kenji, to Kabushiki Kaisha Toshiba. Inner stripe semiconductor laser with stepped channel. 4,663,762, 5-5-87, Cl. 372-45.000.

Kurihara, Junichi: *See—*

Ohki, Masaru; Hirosawa, Toshio; Kurihara, Junichi; and Miyazaki, Katsuto. 4,649,480, Cl. 364-300.000.

Kurihara, Kazuaki; Kamehara, Nobuo; Yokoyama, Hiromitsu; Ogawa, Hiromi; Yokouchi, Kishio; Imanaka, Yoshihiko; and Niwa, Koichi, to Fujitsu Limited. Method for producing a multilayer ceramic circuit board. 4,642,148, 2-10-87, Cl. 156-89.000.

Kurihara, Kazuaki: *See—*

Imanaka, Yoshihiko; Ogawa, Hiromi; Tsukada, Mineharu; Udagawa, Etsuro; Kurihara, Kazuaki; Yokoyama, Hiromitsu; and Kamehara, Nobuo. 4,679,320, Cl. 29-848.000.

Kurihara, Kazumasa, to Nifco Inc. Device for holding rod-like objects. 4,691,883, 9-8-87, Cl. 248-74.200.

Kurihara, Kazumasa; and Arai, Kenji, to Diesel Kiki Co., Ltd. Automatic transmission system for vehicles. 4,693,142, 9-15-87, Cl. 74-861.000.

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Kurihara, Kozo; Otsuka, Yuji; and Fukazawa, Toshio, to Sankyo Company, Limited. Enteric-soluble preparations. 4,661,162, 4-28-87, Cl. 106-169.000.

Kurihara, Kunitoshi: *See—*

Aoyama, Motoo; and Kurihara, Kunitoshi. 4,689,195, Cl. 376-435.000.

Kurihara, Makoto: *See—*

Miyauchi, Yukio; Nakagawa, Yuichi; Kurihara, Makoto; and Hayashi, Norifumi. 4,702,939, Cl. 427-195.000.

Kurihara, Masaru: *See—*

Nakagawa, Yukio; Oto, Katsufumi; and Kurihara, Masaru. 4,634,531, Cl. 210-639.000.

Kurihara, Mutsumu: *See—*

Yashiro, Tsutomu; Kurihara, Mutsumu; and Togashi, Hiroshi. 4,699,840, Cl. 428-328.000.

Kurihara, Norimitsu; Ozaki, Masaaki; Goto, Hiroshi; and Asakura, Masahiko, to Honda Giken Kogyo Kabushiki Kaisha. Suction gas heater control device for engines. 4,681,070, 7-21-87, Cl. 123-179.00H.

Kurihara, Norimitsu: *See—*

Goto, Hiroshi; Kikuchi, Akira; Hibino, Yoshitaka; Totsune, Atsushi; Kurihara, Norimitsu; Hosaka, Takefumi; and Kijima, Takeshi. 4,661,760, Cl. 322-27.000.

Kurihara, Sadao: *See—*

Uno, Kunihiko; Nakazato, Kunihiro; Nishigaki, Masahide; Hirotomi, Hajime; Kimura, Shigeo; Kurihara, Sadao; Tanaka, Hideo; Mihara, Jiro; and Takai, Kiyoaki. 4,639,927, Cl. 373-84.000.

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Hirose, Sachio; Homma, Tammotsu; Kurihara, Takashi; Adachi, Hidenari; Sako, Yoshitaka; and Shibata, Makiko. 4,703,106, Cl. 530-307.000.

Kurihara, Toshihiko, to Pioneer Electronic Corporation. Lens driving device for an optical pickup unit with simplified construction. 4,679,904, 7-14-87, Cl. 350-255.000.

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Kurihara, Yoichi: *See—*

Aikou, Kenichi; Kurihara, Yoichi; and Goto, Tsugio. 4,712,477, Cl. 102-206.000.

Kuru, Masaaki: *See—*

Yamamoto, Akinori; and Kuru, Masaaki. 4,649,398, Cl. 343-903.000.

Kurima, Kazunori: *See—*

Hirai, Hidefumi; Komiyama, Makoto; Kurima, Kazunori; and Wada, Keiichiro. 4,675,309, Cl. 502-402.000.

Kurimoto, Ikuo: *See—*

Nakanishi, Yoshiyuki; Akazawa, Yoji; Kurimoto, Ikuo; Takahashi, Youjirou; Uchida, Shinichi; and Yoshikawa, Hisashi. 4,665,20 Cl. 549-239.000.

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Arakawa, Kazuaki. 4,681,269, Cl. 241-101.200.

Miyake, Katsunobu; Horii, Hiroshi; and Ikoma, Kenji. 4,669,499, Cl. 137-375.000.

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Kurimoto, Yukuo, to Tokyo Electric Co., Ltd. Bar code reading apparatus. 4,656,345, 4-7-87, Cl. 235-472.000.

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Kurioka, Akihiko: *See—*

Morishita, Takuya; Kurioka, Akihiko; and Morita, Akihiro. 4,648,150, Cl. 15-389.000.

Kurisu, Motohiro, to Zenith Electronics Corporation. Method and apparatus for downloading a code defining the channel transmission format employed in an addressable CATV system. 4,677,685, 6-30-87, Cl. 455-4.000.

Kurisu, Norio: *See—*

Nagamoto, Masanaka; Kurisu, Norio; and Taniguchi, Keishi. 4,636,819, Cl. 346-216.000.

Kurisu, Shunji: *See—*

Yokoyama, Hirotaka; Ido, Tadashi; Maeda, Tatsumi; and Kurisu, Shunji. 4,699,771, Cl. 423-138.000.

Kurisu, Takumi: *See—*

Hanazono, Masanobu; Hara, Shinichi; Akiyama, Hirosi; Hayashi, Masaaki; Saitoo, Harunobu; and Kurisu, Takumi. 4,685,014, Cl. 360-126.000.

Kurita, Akitsugu; Maruyama, Kazou; Okusa, Akira; and Hayashi, Haruo, to Toshiba Silicone Co., Ltd.; and Asahi Breweries Ltd. Composition for concealing graze marks on transparent glass bottle. 4,656,221, 4-7-87, Cl. 524-731.000.

Kurita, Goro: *See—*

Nakamura, Yoichi; Yamamoto, Akio; Kurita, Goro; Tomura, Jinichi; and Kuge, Toshio. 4,668,244, Cl. 44-1.00F.

Kurita, Hideaki: *See—*

Nomoto, Yoshitaka; Yamauchi, Hirofumi; Sakurai, Shigeru; Ohkubo, Kenji; Kurita, Hideaki; and Yagi, Kunihiro. 4,665,690, Cl. 60-286.000.

Kurita, Isao: *See—*

Asano, Katsuhiko; Kurita, Isao; and Kamishita, Isamu. 4,654,961, Cl. 29-599.000.

Kurita, Kazuo; and Ishihara, Hideaki, to Toyo Boseki Kabushiki Kaisha. Polyamide fibers having improved properties, and their production. 4,701,377, 10-20-87, Cl. 428-364.000.

Kurita, Kohji: *See—*

Takata, Nobuharu; and Kurita, Kohji. 4,644,242, Cl. 318-771.000

- urita Machinery Manufacturing Company: *See—*
  - Makinoda, Mitsugi, 4,659,465, Cl. 210-225.000.
- urita Machinery Manufacturing Company Limited: *See—*
  - Hamazaki, Haruo, 4,668,385, Cl. 210-91.000.
  - Kurita, Tetsuya, 4,664,797, Cl. 210-225.000.
- urita, Masaya, to Fuji Electric Co., Ltd. Control apparatus for clinic bed. 4,642,825, 2-17-87, Cl. 5-453.000.
- rita, Ryuichi; and Hori, Saburo, to Kureha Chemical Industry Co., Ltd. Alumina-zirconia ceramic powders and a method of making the same. 4,665,040, 5-12-87, Cl. 501-105.000.
- urita, Taiichiro: *See—*
  - Tanaka, Yutaka; Nishizawa, Taiji; Ninomiya, Yuichi; Ohmura, Toshiro; Kurita, Taiichiro; and Ohtsuka, Yoshimichi, 4,663,665, Cl. 358-140.000.
- urita, Tetsuya, to Kurita Machinery Manufacturing Company Limited. Filter cloth hanging apparatus for filter pass. 4,664,797, 5-12-87, Cl. 210-225.000.
- urita, Toshiaki: *See—*
  - Shindo, Yasushi; and Kurita, Toshiaki, 4,664,640, Cl. 446-227.000.
- urita, Toshinori; and Nagamatsu, Hidetoshi, to Toyoda Gosei Co., Ltd. Die opening device for molding machine. 4,699,584, 10-13-87, Cl. 425-450.100.
- urita, Toshiyuki: *See—*
  - Matono, Takaaki; Murata, Toshinori; Kurita, Toshiyuki; and Nakagawa, Isao, 4,707,732, Cl. 358-31.000.
  - Nakagaki, Nobuhumi; Murata, Toshinori; and Kurita, Toshiyuki, 4,684,985, Cl. 358-140.000.
- urita Water Industries Ltd.: *See—*
  - Mizuno, Keisuke; Kondou, Eiichirou; Tahara, Kenji; and Sekikawa, Ayako, 4,656,059, Cl. 427-345.000.
  - Toda, Fumio; Okamoto, Masaru; and Mochizuki, Fujiaki, 4,644,021, Cl. 523-122.000.
  - Tsuneki, Takao; Ano, Shinji; Uchida, Takahiko; Imai, Tomoyasu; Okamoto, Masaru; Ohtaka, Hideo; and Murakami, Hiromi, 4,666,609, Cl. 210-701.000.
- urita, Yutaka: *See—*
  - Nakagawa, Hiroshi; Iwamoto, Hiroshi; Kanada, Hiroshi; Kato, Kazumichi; and Kurita, Yutaka, 4,668,883, Cl. 310-12.000.
- Kuritani, Kazushige; and Nakagawa, Tatsuhiko, to NEC Corporation. Monitoring apparatus capable of monitoring a digital equipment by the use of a synchronization signal. 4,712,209, 12-8-87, Cl. 370-13.000.
- Kuriwaki, Tetsusho: *See—*
  - Ino, Toshio; Maenosono, Tsukasa; Yoshida, Kazuo; Terasaki, Masanori; Kuriwaki, Tetsusho; Koga, Tadao; and Hirado, Miharu, 4,694,131, Cl. 219-10.410.
  - Koga, Tadao; Sugimori, Mitsuru; Terasaki, Masanori; Maenosono, Tsukasa; Tsushima, Satoru; Yoshida, Kazuo; Kuriwaki, Tetsusho; and Hirado, Miharu, 4,687,894, Cl. 219-10.430.
- Kuriyama, Akimasa: *See—*
  - Fukumizu, Shinnichi; Inoue, Kimio; and Kuriyama, Akimasa, 4,695,165, Cl. 366-90.000.
- Kuriyama, Hiroaki: *See—*
  - Ueda, Kouzou; Nagumo, Daisuke; Shuto, Hirotetsu; and Kuriyama, Hiroaki, 4,682,686, Cl. 198-844.000.
- Kuriyama, Kazunori: *See—*
  - Yamaoka, Akira; Wada, Kenichi; and Kuriyama, Kazunori, 4,692,891, Cl. 364-763.000.
- Kuriyama, Keiichi; Miura, Kenichiro; and Deguchi, Takashi, to Matsushita Electric Industrial Co., Ltd. Trouble detector apparatus for an air-conditioner including a counter and a timer. 4,709,292, 11-24-87, Cl. 361-22.000.
- Kuriyama, Minoru; and Yamamoto, Tadashi, to Ube Industries, Ltd. Degassing apparatus for a metal mold. 4,691,755, 9-8-87, Cl. 164-305.000.
- Kuriyama, Takashi: *See—*
  - Hirosaki, Botaro; and Kuriyama, Takashi, 4,642,575, Cl. 331-1.00A.
  - Takanashi, Itsuo; Nakagaki, Shintaro; Ichimura, Hiroshi; and Kuriyama, Takashi, 4,691,227, Cl. 358-47.000.
- Kuriyama, Toru; and Nakagome, Hideki, to Kabushiki Kaisha Toshiba. Method of magnetic refrigeration and a magnetic refrigerating apparatus. 4,674,288, 6-23-87, Cl. 62-3.000.
- Kuriyama, Toshihiro, to Alps Electric Co., Ltd. Structure for fixing floating type magnetic head to gimbal spring. 4,700,250, 10-13-87, Cl. 360-104.000.
- Kuriyama, Yoji: *See—*
  - Maekawa, Nobuaki; Shimizu, Shigeru; Dohi, Masaaki; and Kuriyama, Yoji, 4,660,962, Cl. 355-15.000.
- Kurk, Robert L. Wood cutting apparatus. 4,640,161, 2-3-87, Cl. 83-104.000.
- Kurka, Jaroslav A.; and Brandejs, Jan J. Fishing float assembly. 4,649,660, 3-17-87, Cl. 43-17.500.
- Kurkela, Kauko O. A.: *See—*
  - Karjalainen, Arto J.; and Kurkela, Kauko O. A., 4,639,464, Cl. 514-396.000.
  - Karjalainen, Arto J.; and Kurkela, Kauko O. A., 4,684,659, Cl. 514-396.000.
  - Karjalainen, Arto J.; Virtanen, Raimo E.; Karjalainen, Arja L.; and Kurkela, Kauko O. A., 4,689,339, Cl. 514-396.000.
  - Toivola, Reijo J.; Karjalainen, Arto J.; Kurkela, Kauko O. A.; Soderwall, Marja-Liisa; Kangas, Lauri V. M.; Blanco, Guillermo L.; and Sunduiqst, Hannu K., 4,696,949, Cl. 514-648.000.
  - Virtanen, Raimo E.; Karjalainen, Arto J.; Kurkela, Kauko O. A.; Vaha-Vahe, Antti T.; and Vainio-Kivinen, Outi M., 4,670,455, Cl. 514-396.000.
- Kurki, Jouko; Sandvik, Orjan; and Nyrkio-Maklin, Tiina, to Oy Nokia AB. Calibration system for the calibration of mass flow controllers. 4,671,097, 6-9-87, Cl. 73-3.000.
- Kurkjian, Andrew L.; and Chang, Shu-Kong, to Schlumberger Technology Corporation. Method and apparatus for acoustic dipole shear wave well logging. 4,698,792, 10-6-87, Cl. 367-31.000.
- Kurkjian, Andrew L.; Chang, Shu-Kong; and Everhart, Ann H., to Schlumberger Technology Corporation. Method and apparatus for acoustic dipole direct shear wave well logging. 4,703,460, 10-27-87, Cl. 367-31.000.
- Kurkjian, Charles R.: *See—*
  - Krause, John T.; Kurkjian, Charles R.; and Paek, Un-Chul, 4,713,105, Cl. 65-4.100.
- Kurland, Kenneth Z. Upper-extremity traction tray attachment for operating tables. 4,653,482, 3-31-87, Cl. 128-71.000.
- Kurland, Kenneth Z. Surgical deflector and drilling guide. 4,686,972, 8-18-87, Cl. 128-92.00V.
- Kurland, Kenneth Z. Method for the repair of connective tissue. 4,713,075, 12-15-87, Cl. 623-13.000.
- Kurlytis, Paul C.; and Carpenter, Clayton A. Exercise machine having pedals which extend radially against resistive means. 4,693,468, 9-15-87, Cl. 272-73.000.
- Kurmeier, Hans A.: *See—*
  - Bofinger, Klaus; Kurmeier, Hans A.; Romer, Michael; and Seubert, Jurgen, 4,699,636, Cl. 55-38.000.
- Kurobe, Atsushi: *See—*
  - McIlroy, Paul W. A.; Kurobe, Atsushi; and Furuyama, Hideto, 4,701,774, Cl. 357-17.000.
- Kuroda, Akio: *See—*
  - Hamaguchi, Toshiaki; Namikawa, Kazuhira; Nakamura, Mutsuaki; Kuroda, Akio; and Akai, Toshio, 4,646,284, Cl. 369-276.000.
  - Namikawa, Kazuhira; Hamaguchi, Toshiaki; Nakamura, Mutsuaki; and Kuroda, Akio, 4,639,908, Cl. 369-288.000.
- Kuroda, Hideo; Mukawa, Naoki; Hiraoka, Makoto; Matsuda, Kiichi; Nishiwaki, Mitsuo; and Tsugane, Shuzo, to Nippon Telegraph & Telephone Public Corp., Fujitsu Limited, and NEC Corp. System for detecting a transmission error. 4,677,480, 6-30-87, Cl. 358-136.000.
- Kuroda, Hiroshi; Nishimura, Tsukasa; Nishimura, Masakatsu; Hashimoto, Taiki; Kanda, Osamu; Nozawa, Shigeru; and Shibata, Kenji, to Babcock-Hitachi Kabushiki Kaisha. Flue gas desulfurization process. 4,687,649, 8-18-87, Cl. 423-242.000.
- Kuroda, Hiroshi: *See—*
  - Sato, Koji; Kuroda, Hiroshi; Yamada, Ryuji; and Serino, Mamoru, 4,715,657, Cl. 299-1.000.
  - Watanabe, Yoshimi; Umeoka, Norihiro; and Kuroda, Hiroshi, 4,661,890, Cl. 362-217.000.
- Kuroda, Katsuhiko; Yoshimi, Kiyoharu; and Baba, Tsutomu, to Mitsubishi Chemical Industries Limited. Low-temperature fluidity improver. 4,652,611, 3-24-87, Cl. 525-207.000.
- Kuroda, Katsuhiro: *See—*
  - Ohtaka, Tadashi; Nakaizumi, Yasushi; and Kuroda, Katsuhiro, 4,658,136, Cl. 250-310.000.
- Kuroda, Kazuhiro: *See—*
  - Kambe, Hirokazu; Kuroda, Kazuhiro; and Hayama, Masashi, 4,689,263, Cl. 428-212.000.
- Kuroda, Kenichi: *See—*
  - Komori, Kazuhiro; Kuroda, Kenichi; and Sugiura, June, 4,663,645, Cl. 357-23.500.
  - Komori, Kazuhiro; Kuroda, Kenichi; and Okuyama, Kousuke, 4,697,198, Cl. 357-23.300.
- Kuroda, Kohji: *See—*
  - Minowa, Toshio; Hashimoto, Tetsuro; Kuroda, Kohji; and Nakayama, Kazutaka, 4,697,885, Cl. 350-334.000.
- Kuroda, Kouiti: *See—*
  - Ueno, Susumu; Kuroda, Kouiti; Nomura, Hirokazu; and Tateno, Shigeru, 4,637,851, Cl. 156-272.600.
- Kuroda, Kouki: *See—*
  - Nagasaki, Toshiaki; Kuroda, Kouki; and Inuzuka, Tsuneki, 4,656,338, Cl. 219-497.000.
- Kuroda, Kunishige: *See—*
  - Hotta, Yoshiji; Kuroda, Kunishige; Kimura, Hiroshi; Hara, Nobuhiro; and Tada, Naofumi, 4,692,560, Cl. 174-15.0CA.
- Kuroda, Masao: *See—*
  - Kondo, Toshio; and Kuroda, Masao, 4,643,028, Cl. 73-625.000.
  - Sekihara, Kensuke; Kuroda, Masao; and Kohno, Hideki, 4,672,320, Cl. 324-312.000.
  - Yamamoto, Etsuji; Kohno, Hideki; Kuroda, Masao; Matsui, Shigeru; and Shiono, Hidemi, 4,683,433, Cl. 324-309.000.
- Kuroda, Masato: *See—*
  - Fujiwara, Masatoshi; and Kuroda, Masato, 4,675,567, Cl. 310-317.000.
  - Fujiwara, Masatoshi; Kuroda, Masato; and Shiga, Tatsuhide, 4,712,173, Cl. 364-138.000.
- Kuroda, Masayuki, to Sony Corporation. Magnetic head drum assembly. 4,669,019, 5-26-87, Cl. 360-130.240.
- Kuroda, Michio: *See—*
  - Iizuka, Nobuyuki; Hisano, Katsukuni; Oshima, Ryoichiro; Wada, Katsuo; Hirose, Fumiyuki; Kuroda, Michio; Uchiyama, Yoshihiro; Ishibashi, Yoji; Sato, Isao; and Inose, Hirosin, 4,683,715, Cl. 60-39.060.
- Kuroda Precision Industries, Ltd.: *See—*
  - Migita, Shuiti; and Ito, Hajime, 4,657,454, Cl. 409-234.000.
  - Tsuchiya, Tatsuo; and Hozumi, Kazuhiro, 4,693,454, Cl. 267-226.000.
  - Watanabe, Yuuji, 4,676,127, Cl. 82-1.200.

Kuroda, Shigeaki: *See—*
Oguni, Kensaku; Ishibane, Kyuhei; Kuroda, Shigeaki; Yasuda, Hiromu; Sano, Takashi; and Etou, Hironori, 4,706,469, Cl. 62-222.000.

Kuroda, Shigeru, to Fujitsu Limited. Method of manufacturing GaAs semiconductor device. 4,635,343, 1-13-87, Cl. 29-571.000.

Kuroda, Sigeaki: *See—*
Nagai, Makoto; Horiuchi, Isamu; Hanada, Masamichi; Kuroda, Sigeaki; Hayashi, Masakatsu; Ohishi, Yasuro; Mori, Yutaka; Maeda, Eiji; Kasukabe, Kimito; Tsujita, Yuji; Etou, Hironori; Kikuchi, Katsuaki; and Itagaki, Masato, 4,647,271, Cl. 416-186.00R.

Kuroda, Takao: *See—*
Sawada, Yasushi; Ueyanagi, Kiichi; Katayama, Yoshifumi; Shiraki, Yasuhiro; Morioka, Makoto; Kuroda, Takao; and Mishima, Tomoyoshi, 4,672,406, Cl. 357-22.000.
Shiraki, Yasuhiro; Katayama, Yoshifumi; Murayama Yoshimasa; Morioka, Makoto; Sawada, Yasushi; Mishima, Tomoyoshi; Kuroda, Takao; and Maruyama, Eiichi, 4,673,959, Cl. 357-22.000.

Kuroda, Tetsuro: *See—*
Komuro, Matahiro; Kozono, Yuzo; Yasuda, Takeshi; Narishige, Shinji; Hanazono, Masanobu; and Kuroda, Tetsuro, 4,698,273, Cl. 428-635.000.

Kuroda, Tokuyuki: *See—*
Muto, Kenji; Sugaya, Toru; Kuroda, Tokuyuki; Hashimoto, Tamotsu; Yamada, Koji; Nakamizo, Nobuhiro; and Watanabe, Minoru, 4,639,522, Cl. 546-194.000.

Kuroda, Toshihisa: *See—*
Nishimura, Shigeru; and Kuroda, Toshihisa, 4,713,685, Cl. 358-103.000.

Kuroda, Toshio; and Kumazawa, Koichi, to Narumi China Corporation. Package comprising a composite metal body brought into contact with a ceramic member. 4,680,618, 7-14-87, Cl. 357-74.000.

Kuroda, Yasuo, to Canon Kabushiki Kaisha. Image read-out apparatus with light source driving means. 4,639,608, 1-27-87, Cl. 250-578.000.

Kuroda, Yasuo: *See—*
Hatanaka, Katsunori; Kuroda, Yasuo; and Uzawa, Shunichi, 4,634,886, Cl. 250-578.000.
Shirato, Yoshiaki; Komatsu, Toshiyuki; Seito, Shinichi; Kawai, Tatsundo; Iwamoto, Hirofumi; Nakagawa, Katsumi; and Kuroda, Yasuo, 4,680,644, Cl. 358-294.000.

Kuroda, Yoshio: *See—*
Kitaura, Yoshihiko; Nakaguchi, Osamu; Hemmi, Keiji; Aratani, Matsuhiko; Takeno, Hidekazu; Okada, Satoshi; Tanaka, Hirokazu; Hashimoto, Masashi; Kuroda, Yoshio; Iguchi, Eiko; Kohsaka, Masanobu; Aoki, Hatsuo; and Imanaka, Hiroshi, 4,666,890, Cl. 514-18.000.

Kuroda, Yuji: *See—*
Inoue, Atsushi; Kuroda, Yuji; and Tamura, Sadahiro, 4,694,262, Cl. 331-96.000.

Kuroda, Yuuzoh, to Yamaha Hatsudoki Kabushiki Kaisha. Valve actuating mechanism for internal combustion engine. 4,637,356, 1-20-87, Cl. 123-90.270.

Kurogi, Yukinori; Endo, Nobuhiro; and Tanno, Kohetsu, to Nippon Electric Co., Ltd. Method for manufacturing a semiconductor device. 4,637,127, 1-20-87, Cl. 29-576.00E.

Kurohata, Hitoshi: *See—*
Masho, Yukio; Kakimi, Shigeru; Ueki, Toru; Miyauchi, Satoshi; Ohigashi, Tugio; and Kurohata, Hitoshi, 4,705,154, Cl. 194-319.000.

Kuroi Garasu Kougyo Co., Ltd.: *See—*
Kitamura, Masaharu, 4,661,891, Cl. 362-219.000.

Kuroi Glass Industry Co., Ltd.: *See—*
Hirono, Akira, 4,698,735, Cl. 362-230.000.

Kuroishi, Nobuhito; Motooka, Naoki; Suganuma, Tetsuya; and Manabe, Akira, to Sumitomo Electric Industries, Ltd.; and Toyota Motor Corporation. Valve-seat insert for internal combustion engines and its production. 4,671,491, 6-9-87, Cl. 251-368.000.

Kuroishi, Nobuhito: *See—*
Doi, Yoshihiko; Kuroishi, Nobuhito; Ochi, Shigeki; and Uenishi, Noboru, 4,710,345, Cl. 419-28.000.
Odani, Yusuke; Akechi, Kiyoaki; and Kuroishi, Nobuhito, 4,702,885, Cl. 419-23.000.

Kuroishi, Tadafumi: *See—*
Yoshida, Kasumi; Uchiki, Hideo; and Kuroishi, Tadafumi, 4,645,047, Cl. 422-81.000.

Kuroiwa, Akihiko, to Kabushiki Kaisha Toshiba. Control system for a power converter driving a synchronous motor. 4,682,094, 7-21-87, Cl. 318-723.000.

Kuroiwa, Akihiko; and Saito, Suzuo, to Kabushiki Kaisha Toshiba. Constant voltage and frequency type PWM inverter with minimum output distortion. 4,692,855, 9-8-87, Cl. 363-95.000.

Kuroiwa, Akihiko: *See—*
Namba, Kenryo; Asami, Shigeru; Aoi, Toshiki; Takahashi, Kazuo; and Kuroiwa, Akihiko, 4,713,314, Cl. 430-270.000.

Kuroiwa, Junko: *See—*
Komatsu, Kousuke; Miyauchi, Tsutomu; Misao, Ikuo; Kimura, Mutsumi; Fujiwara, Tadashi; Tsuchida, Yoshio; and Kuroiwa, Junko, 4,646,134, Cl. 358-11.000.

Kuroiwa, Katsumasa: *See—*
Nagasawa, Takeshi; Nakamura, Yoshio; and Kuroiwa, Katsumasa, 4,650,753, Cl. 435-23.000.

Kuroiwa, Minoru: *See—*
Koseki, Yasuo; Ebara, Katsuya; Takahashi, Sankichi; Matsuoka, Kazuhiko; Kuroiwa, Minoru; and Yamada, Akira, 4,670,137, Cl. 210-96.100.
Matsuzaki, Harumi; Kubota, Masayoshi; Ebara, Katsuya; Takahashi, Sankichi; and Kuroiwa, Minoru, 4,698,153, Cl. 210-192.000.

Kuroiwa, Shintaro: *See—*
Arakawa, Kazuo; Hayakawa, Naohiro; Yoshida, Kenzo; Tamura, Naoyuki; Nakanishi, Hiroshi; Yagi, Tetsuya; and Kuroiwa, Shintaro, 4,664,829, Cl. 252-52.00R.

Kuroiwa, Takaaki: *See—*
Nishimoto, Ikuo; Kamiunten, Shoji; and Kuroiwa, Takaaki, 4,677,416, Cl. 338-35.000.

Kuroiwa, Wataru: *See—*
Masuko, Akinori; Kuroiwa, Wataru; Uehara, Shouji; Uekusa, Tsutomu; Rast, Robert M.; and Campbell, W. Sherwood, 4,686,564, Cl. 358-86.000.

Kuroiwa, Yasuyuki: *See—*
Fukuda, Tamotsu; Shigeta, Shiro; Okuya, Hiroaki; Kuroiwa, Yasuyuki; and Sudo, Tadashi, 4,702,910, Cl. 424-92.000.

Kuroiwa, Yoshizo: *See—*
Ito, Katsumi; Okuyama, Shigeaki; Nakamura, Norimi; Kuroiwa, Yoshizo; Fujiwara, Kouji; Nakamura, Kunisuke; Fujiwara, Osami; Yoshida, Jituo; and Kobayashi, Mitsugu, 4,671,376, Cl. 180-249.000.

Kuroiwa, Yosio, and Sibata, Takuo, to Toyota Jidosha Kabushiki Kaisha. Method and apparatus for external broaching of resin-coated parts. 4,701,085, 10-20-87, Cl. 409-244.000.

Kuroiwa, Yosio: *See—*
Takeshita, Hajime; Iwase, Takahiro; Masuda, Naofumi; Sibata, Takuo; Mochizuki, Hiroyuki; Kobayashi, Nobuo; Kawakami, Seiho; and Kuroiwa, Yosio, 4,693,813, Cl. 409-244.000.

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Koseki, Yasuo; Yamada, Akira; Kurokawa, Hideki; Matsuzaki, Harumi; Ebara, Katsuya; and Takahashi, Sankichi, 4,638,646, Cl. 62-478.000.

Kurokawa, Hideo; Mitani, Tsutomu; and Yonezawa, Taketoshi, to Matsushita Electric Industrial Co., Ltd. Plasma CVD apparatus and method for forming a diamond like carbon film. 4,645,977, 2-24-87, Cl. 315-111.210.

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Kurokawa, Shigeki: *See—*
Ohishi, Yoshitaka; Nagahara, Michiko; Kajikawa, Norio; Yajima, Motoyuki; Nogimori, Katsumi; and Kurokawa, Shigeki, 4,666,931, Cl. 514-389.000.

Kurokawa, Shigeo: *See—*
Irie, Toshio; Kyono, Kazuaki; Kimura, Hajime; and Kurokawa, Shigeo, 4,640,872, Cl. 428-659.000.

Kurokawa, Takashi: *See—*
Kamiya, Osamu; Fujiyama, Yasutomo; Ogawa, Kyosuke; and Kurokawa, Takashi, 4,637,342, Cl. 118-719.000.

Kurokawa, Teruhisa: *See—*
Mizuno, Takeyuki; and Kurokawa, Teruhisa, 4,647,414, Cl. 264-65.000.

Kurokawa, Toshio, to Fuji Photo Film Co., Ltd. Multiple magnetic pump system. 4,678,409, 7-7-87, Cl. 417-420.000.

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Kurokawa, Yasuhiro: *See—*
Inoi, Takeshi; Akabane, Toshiaki; Kurokawa, Yasuhiro; and Matsuoka, Shingo, 4,642,287, Cl. 435-99.000.

Kuroki, Akira; and Ochiai, Satoru, to Fujitsu Limited. Transaction safety system for falsely indicating successful completion of illegal transaction. 4,675,815, 6-23-87, Cl. 379-37.000.

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Fukunaga, Yukio; Shibahata, Yasuji; Nakamura, Kenji; Tsubota, Yasumasa; Irie, Namio; and Kuroki, Junsuke, 4,705,130, Cl. 180-140.000.
Nakamura, Kenji; Shibahata, Yasuji; Fukunaga, Yukio; Tsubota, Yasumasa; Irie, Namio; and Kuroki, Junsuke, 4,669,567, Cl. 180-140.000.
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Kuroki, Katsuro: *See—*
Yoshitomi, Yasunari; Kuroki, Katsuro; and Iwayama, Kenzo, 4,692,193, Cl. 148-111.000.

Kuroki, Kazuo, to Fuji Electric Co., Ltd. Control circuit for switching transistors. 4,639,823, 1-27-87, Cl. 361-159.000.

Kuroki, Kenji: *See—*
Sawai, Hideo; Kanamori, Takashi; Kuroki, Kenji; and Shibata, Susumu. 4,661,827, Cl. 346-76.0PH.

Kuroki, Satoshi: *See—*
Arakawa, Kazumi; Hirao, Toshiyuki; Sugiura, Kenji; Kuroki, Satoshi; Hiraki, Sei; Suzuki, Takao; and Nakai, Ken. 4,640,336, Cl. 164-440.000.

Kuroki, Syoji: *See—*
Mosbach, Erwin H.; McSherry, Charles K.; and Kuroki, Syoji. 4,648,995, Cl. 260-397.100.

Kuroki, Takanori. Heat exchanger structure and method of manufacturing same. 4,677,724, 7-7-87, Cl. 29-157.30R.

Kuroki, Toshihiko: *See—*
Nakamura, Makoto; Suzuki, Hideo; and Kuroki, Toshihiko. 4,686,512, Cl. 340-347.0DD.

Kuroki, Yoichi: *See—*
Onoda, Ruri; Kuroki, Yoichi; and Nakamura, Gen. 4,694,186, Cl. 250-578.000.

Kuroki, Yoshiaki: *See—*
Takami, Akio; Matsuura, Toshitaka; Nakano, Akira; and Kuroki, Yoshiaki. 4,660,407, Cl. 73-23.000.

Kuroki, Yoshihiro: *See—*
Nobukawa, Akira; Sawaguchi, Tatsue; and Kuroki, Yoshihiro. 4,696,513, Cl. 279-121.000.

Kuroki, Yuzuru: *See—*
Sugimura, Tatuo; Satoh, Isao; Ichinose, Makoto; and Kuroki, Yuzuru. 4,653,051, Cl. 371-37.000.

Kuromaru, Hiroshi; Morimoto, Tadakiyo; Kuwahara, Koji; Fujiwara, Kenji; Shimizu, Yujiro; Miyauchi, Reizo; Wakusawa, Kuniaki; Takama, Hideaki; Waseda, Masashi; and Fujita, Akihisa, to Mitsubishi Jukogyo Kabushiki Kaisha. Apparatus for cutting a plate into a predetermined size. 4,667,551, 5-26-87, Cl. 83-72.000.

Kurome, Shosaku; Maeda, Yosinari; and Emoto, Hiromi, to Sanyo Electric Co., Ltd. Kitchen device. 4,664,530, 5-12-87, Cl. 366-205.000.

Kurome, Yoshio: *See—*
Urata, Keiji; and Kurome, Yoshio. 4,683,264, Cl. 525-65.000.

Kuromitu, Hiromu, to Aisin Seiki Kabushiki Kaisha. Hydraulic booster with electrically driven plunger pump. 4,660,381, 4-28-87, Cl. 60-548.000.

Kuron Kabushiki Kaisha: *See—*
Kobayashi, Masahiko. 4,712,104, Cl. 340-825.520.

Kurono, Masayasu; Iida, Takafumi; Hayashi, Katsuhiro; and Yagi, Kunio, to Institute of Applied Biochemistry. Novel resolution method of racemic mixture. 4,656,303, 4-7-87, Cl. 558-354.000.

Kurono, Masayasu; Hayashi, Motohide; Suzuki, Tsunemasa; Miura, Kenji; Kumagai, Yoshihiro; Matsumoto, Yukiharu; Miyano, Seiji; and Sumoto, Kunihiro, to Sanwa Kagaku Kenkyusho Co., Ltd. Novel 2-oxopyrrolidine compounds, salts thereof process for the preparation thereof as well as pharmaceutical agent comprising the compound. 4,678,801, 7-7-87, Cl. 514-413.000.

Kuronya, Istvan: *See—*
Komives, Tamas; Dutka, Ferenc; Barta, Istvan; Jablonkai, Istvan; Hulesch, Agnes; Bihari, Ferenc; Eifert, Gyula; Bohus, Peter; Nagy, Mihaly; Bacskai, Gyorgy; and Kuronya, Istvan. 4,708,733, Cl. 71-94.000.

Kuroo, Yoshiyasu: *See—*
Okamura, Kiyohito; Hasegawa, Yoshio; Kuroo, Yoshiyasu; and Ugaji, Masana. 4,696,827, Cl. 427-36.000.

Kurosaki, Makoto, to Nippon Gakki Seizo Kabushiki Kaisha. Snare drum. 4,688,463, 8-25-87, Cl. 84-421.000.

Kurosaki, Masanori: *See—*
Iwasaki, Hideki; Yokokawa, Tomohisa; and Kurosaki, Masanori. 4,686,707, Cl. 455-200.000.

Kurosaki, Mutsuo, to Nifco, Inc. Locking device. 4,657,291, 4-14-87, Cl. 292-6.000.

Kurosaki Refractories Co., Ltd.: *See—*
Hamaguchi, Setsunori; and Hanaoka, Sumio. 4,683,151, Cl. 427-397.800.
Kido, Tomoyuki; and Masuda, Toshihide. 4,664,858, Cl. 264-44.000.
Nishimura, Takahiro; and Ohnuma, Masao. 4,693,401, Cl. 222-607.000.
Yokoi, Nobuyuki; Taira, Toshimitsu; and Tsuyuguchi, Koji. 4,660,749, Cl. 222-600.000.

Kurosaki, Tadamasa: *See—*
Nakatani, Keiichi; Ohnishi, Shohzo; and Kurosaki, Tadamasa. 4,683,249, Cl. 521-129.000.

Kurosaki, Tomihiro; Wakatsuki, Junya; Furugaki, Hisakazu; and Kojima, Katsutoshi, to Kao Corporation. Process for purification of phosphoric mono esters. 4,670,575, 6-2-87, Cl. 558-146.000.

Kurosaki, Tomihiro: *See—*
Imamura, Takashi; Kayane, Shigeto; and Kurosaki, Tomihiro. 4,650,862, Cl. 536-17.100.
Sekine, Fumimaro; Kurosaki, Tomihiro; Ukena, Toshinao; and Kamitani, Hiroshi. 4,713,487, Cl. 562-587.000.

Kurosawa, Akihito; and Anazawa, Osamu, to Sanden Corporation. Dispensing mechanism for vending machines. 4,673,105, 6-16-87, Cl. 221-281.000.

Kurosawa, Akihito: *See—*
Kokubun, Yoshikazu; Kurosawa, Akihito; Anazawa, Osamu; Sunouchi, Daigo; and Yoshihara, Masayuki. 4,676,398, Cl. 221-129.000.

Kurosawa, Akira: *See—*
Tabata, Yusuke; Hayasaka, Eiji; Hashimoto, Toshitomo; Horima, Hiroaki; Omori, Toshiyuki; and Kurosawa, Akira. 4,662,712, Cl. 350-96.230.

Kurosawa, Atsushi: *See—*
Sugihara, Masanori; Kurosawa, Atsushi; Okamoto, Akihiko; Shimoda, Kouji; Kimoto, Toshiyuki; and Kouno, Tomomitsu. 4,695,996, Cl. 369-77.100.
Sugihara, Masanori; Kurosawa, Atsushi; Okamoto, Akihiko; Bessho, Akira; Shimoda, Kouji; Okuda, Kenji; Kama, Haruo; and Kobayashi, Kazuo. 4,700,338, Cl. 369-77.100.

Kurosawa, Hideyuki: *See—*
Satoh, Hidetaka; Kurosawa, Hideyuki; Kamijoh, Yoshiaki; and Jyumonji, Hiromichi. 4,695,916, Cl. 361-56.000.

Kurosawa, Hiroshi: *See—*
Ochiai, Izumi; and Kurosawa, Hiroshi. 4,689,637, Cl. 343-914.000.

Kurosawa, Kazuyuki: *See—*
Ninomiya, Masao; Takashima, Susumu; Fukushima, Kazumasa; Yuyama, Masami; and Kurosawa, Kazuyuki. 4,712,243, Cl. 381-43.000.
Takashima, Susumu; Tokimoto, Toyotarou; and Kurosawa, Kazuyuki. 4,633,748, Cl. 84-1.010.

Kurosawa, Kenzo, to Kabushiki Kaisha Gakushu Kenkyusha. Running toy. 4,671,779, 6-9-87, Cl. 446-457.000.

Kurosawa, Masaji: *See—*
Sago, Yoshiharu; Kurosawa, Masaji; and Kanamori, Nobutaka. 4,650,621, Cl. 264-62.000.

Kurosawa, Ryoichi; and Shimamura, Takeo, to Kabushiki Kaisha Toshiba. Frequency converter apparatus. 4,652,989, 3-24-87, Cl. 363-161.000.

Kurosawa, Ryoichi, to Kabushiki Kaisha Toshiba. Control system. 4,675,584, 6-23-87, Cl. 318-326.000.

Kurosawa, Ryoichi: *See—*
Shimamura, Takeo; Uchino, Hiroshi; and Kurosawa, Ryoichi. 4,698,581, Cl. 323-211.000.

Kurosawa, Ryuichi, to Toyota Jidosha Kabushiki Kaisha. Vehicle active suspension system incorporating acceleration detecting means. 4,712,807, 12-15-87, Cl. 280-707.000.

Kurosawa, Shinichiro: *See—*
Aoki, Nobuo; and Kurosawa, Shinichiro. 4,638,050, Cl. 530-413.000.

Kurosawa, Susumu: *See—*
Terada, Kazuo; Kurosawa, Susumu; and Suzuki, Shunichi. 4,706,107, Cl. 357-23.500.

Kurosawa, Tomoe: *See—*
Ohno, Yasunori; Kurosawa, Tomoe; Sato, Tadashi; Kurosawa, Yukio; and Hakamata, Yoshimi. 4,713,585, Cl. 315-111.810.
Ohno, Yasunori; Kurosawa, Tomoe; Sato, Tadashi; and Ohshita, Youichi. 4,716,491, Cl. 361-230.000.

Kurosawa, Toshiaki; Shima, Seiya; Ando, Takeki; Inaba, Hiromi; Nakashima, Hajime; and Mine, Toshisuke, to Hitachi, Ltd.; and Hitachi Engineering Co., Ltd. dv/dt Protection circuit device for an AC-DC converter apparatus. 4,636,932, 1-13-87, Cl. 363-54.000.

Kurosawa, Toshiharu: *See—*
Tsuchiya, Hiroyoshi; Kurosawa, Toshiharu; Otsuka, Hirotaka; Maruyama, Yuuji; and Nakazato, Katsuo. 4,692,811, Cl. 358-282.000.

Kurosawa, Yoshiaki: *See—*
Ooi, Katsunori; Hidai, Yutaka; Kurosawa, Yoshiaki; and Nakamura, Yoshikatsu. 4,685,142, Cl. 382-13.000.

Kurosawa, Yoshiki: *See—*
Fujiyasu, Hiroshi; Kurosawa, Yoshiki; and Kaneko, Masaru. 4,662,981, Cl. 156-610.000.
Fujiyasu, Hiroshi; Kurosawa, Yoshiki; and Kaneko, Masaru. 4,668,480, Cl. 422-247.000.

Kurosawa, Yukio; and Iwashita, Kiyoji, to Hitachi, Ltd. Vacuum circuit breaker. 4,695,689, 9-22-87, Cl. 200-144.00B.

Kurosawa, Yukio; Iwashita, Kiyoji; Matumoto, Morihisa; Kurasawa, Takanao; and Endo, Syunkichi, to Hitachi, Ltd. Vacuum interrupter. 4,704,506, 11-3-87, Cl. 200-144.00B.

Kurosawa, Yukio: *See—*
Ohno, Yasunori; Kurosawa, Tomoe; Sato, Tadashi; Kurosawa, Yukio; and Hakamata, Yoshimi. 4,713,585, Cl. 315-111.810.

Kurose, Kazuyoshi: *See—*
Asada, Takafumi; Yoshida, Cyuryo; Shioyama, Tadao; and Kurose, Kazuyoshi. 4,706,143, Cl. 360-107.000.

Kurose, Yoshio; and Tomochika, Tokitaka, to Nippondenso co., ltd.; and Shobunsha co., ltd. Vehicle navigational apparatus for displaying a road map. 4,689,747, 8-25-87, Cl. 364-449.000.

Kuroshima, Ryoichi: *See—*
Mizuno, Takao; Uchikawa, Naoshi; Murayama, Akira; Tamura, Takahiro; and Kuroshima, Ryoichi. 4,714,415, Cl. 418-14.000.

Kurosu, Noriaki; Ohmae, Masanori; and Kashiwa, Michiaki, to Toyota Jidosha Kabushiki Kaisha. Method and apparatus for ordering a working operation in an assembly line. 4,683,540, 7-28-87, Cl. 364-468.000.

Kurosu, Yasuhisa; Kawada, Hiroshi; Kanasugi, Haruki; and Hosokawa, Akio, to Hodogaya Chemical Co., Ltd. Nematocide. 4,696,947, 9-29-87, Cl. 514-478.000.

Kurotaka, Sigeo; and Tukano, Moriyosi, to Ricoh Company, Ltd. Developer container for dry-process development. 4,696,418, 9-29-87, Cl. 222-167.000.

Kurotobi, Yohji: *See—*

Ohishi, Toshio; and Kurotobi, Yohji, 4,640,698, Cl. 55-502.000

Kurotori, Tsuneo: *See—*

Ariyama, Kenzo; Kurotori, Tsuneo; and Mochizuki, Manabu, 4,640,605, Cl. 355-4.000.

Mochizuki, Manabu; Ikeda, Itsuo; Kurotori, Tsuneo; Shinguryo, Satoshi; Miyakawa, Seiichi; Kobayashi, Yuichi; Nonaka, Mitsuhiro; and Fukuda, Haruhiko, 4,669,859, Cl. 355-10.000.

Kuroyama, Yutaka: *See—*

Araki, Masatada; Kuroyama, Yutaka; Takeuchi, Yukihisa; Takagi, Makoto; and Imura, Toru, 4,713,871, Cl. 29-421.00E.

Kuroyanagi, Masatoshi; Suzuki, Masahiko; Moriguchi, Kohichi; Matsui, Kazuma; and Iwata, Hiroshi, to Nippondenso Co., Ltd. Variable capacity radial piston pump. 4,652,215, 3-24-87, Cl. 417-219.000.

Kuroyanagi, Masatoshi: *See—*

Iwata, Hiroshi; Kuroyanagi, Masatoshi; Suzuki, Masahiko; Moriguchi, Koichi; Horiuchi, Yasuhiro; and Nakamura, Kanehito, 4,710,106, Cl. 417-213.000.

Suzuki, Masahiko; Matsui, Kazuma; Moriguchi, Koichi; and Kuroyanagi, Masatoshi, 4,658,584, Cl. 60-450.000.

Kuroyanagi, Toshiya: *See—*

Shirai, Tamotsu; and Kuroyanagi, Toshiya, 4,662,674, Cl. 297-113.000.

Kuroyanagi, Yoshimitsu; Miyata, Teruo; and Seno, Manabu, to Koken Co., Ltd. Man-made skin composed of two layers: collagen and a poly-alpha-amino acid. 4,642,118, 2-10-87, Cl. 623-15.000.

Kuroyanagi, Yoshimitsu: *See—*

Namiki, Tetsuro; Furuse, Masayasu; Kuroyanagi, Yoshimitsu; and Miyata, Teruo, 4,714,758, Cl. 530-354.000

Kurozumi, Seizi: *See—*

Hazato, Atsuo; Sugiura, Satsohi; Kurozumi, Seizi; and Noyori, Ryoji, 4,711,895, Cl. 514-530.000

Sugiura, Satoshi; Tanaka, Toshio; and Kurozumi, Seizi, 4,689,426, Cl. 560-121.000.

Tanaka, Toshio; Hazato, Atsuo; and Kurozumi, Seizi, 4,649,156, Cl. 514-530.000.

Kurpan, Vincent E., to Eastman Kodak Company. Patch generator for an electrophotographic device. 4,693,592, 9-15-87, Cl. 355-14.00E.

Kurple, Kenneth R.: *See—*

Ryntz, Rose A.; and Kurple, Kenneth R., 4,673,718, Cl. 525-476.000.

Kurps, Armin; Fischer, Hermann; Hartmann, Jurgen; and Hartmann, Heinrich, to BASF Aktiengesellschaft. Preparation of concentrated, stable water-in-oil emulsions of water-soluble or water-swellable polymers. 4,645,568, 2-24-87, Cl. 203-14.000.

Kurr, Klaus: *See—*

Idigkeit, Werner; Kurr, Klaus; and Ticks, Gero-Heinz, 4,638,983, Cl. 267-140.100.

Kurrasch, Andrew J., to Herman Miller, Inc. Adjustable support. 4,650,143, 3-17-87, Cl. 248-188.400.

Kursar, James V., to Ingersoll-Rand Company. Clearance pocket assembly. 4,694,732, 9-22-87, Cl. 92-60.500.

Kurt Allert GmbH & Co. KG: *See—*

Allert, Kurt, 4,677,712, Cl. 24-274.00R.

Kurt H. Volk, Inc.: *See—*

Stenner, John W., 4,651,920, Cl. 229-70.000.

Kurt Schmidt Fabrikation von Stahlwaren und chirurgischen Instrumenten (GmbH. & Co.): *See—*

Pracht, Gunther, 4,660,285, Cl. 30-195.000.

Kurt Wolf & Co. KG: *See—*

Andre, Wolfram K.; and Wolf, Kurt, 4,682,013, Cl. 219-497.000

Andre, Wolfram K., 4,682,298, Cl. 364-557.000.

Wolf, Kurt; and Andre, Wolfram K., 4,682,012, Cl. 219-490.000.

Wolf, Kurt; and Andre, Wolfram K., 4,700,052, Cl. 219-497.000.

Kurta Corporation: *See—*

Rodgers, James L.; and Fowler, Billy C., 4,661,656, Cl. 178-18.000.

Rodgers, James L.; and Waterbury, Charles A., 4,672,154, Cl. 178-19.000.

Kurtgis, Michael P. Placement of load onto energized transmission line system. 4,673,059, 6-16-87, Cl. 182-3.000.

Kurth, Josef; Mathey, Christoph; and Wissinger, Waldemar, to Dynamit Nobel Aktiengesellschaft. Launching tube for missiles. 4,646,618, 3-3-87, Cl. 89-1.816.

Kurtovic, Zlatko: *See—*

Grabovac, Bosko; and Kurtovic, Zlatko, 4,709,602, Cl. 81-483.000.

Kurtti, Gary R.; Ches, Gregory S.; Brender, David T.; and Senopole, John J., to General Motors Corporation. Inertia release for belt retractor winding prevention mechanism. 4,684,077, 8-4-87, Cl. 242-107.600.

Kurtz, Andrew D., to FMC Corporation. Method for controlling a reboiler. 4,661,207, 4-28-87, Cl. 203-3.000.

Kurtz, Anthony D.; Nunn, Timothy A.; and Weber, Richard A., to Kulite Semiconductor Products, Inc. Fabrication of dielectrically isolated fine line semiconductor transducers and apparatus. 4,672,354, 6-9-87, Cl. 338-4.000.

Kurtz, Anthony D.; and Mallon, Joseph R., to Kulite Semiconductor Products, Inc. Environmentally protected pressure transducers employing two electrically interconnected transducer arrays. 4,695,817, 9-22-87, Cl. 338-4.000.

Kurtz, John A.; Cousens, Donald E.; and Dufour, Mark D., to Fairchild Semiconductor Corporation. Apparatus for feeding bonding wire. 4,685,631, 8-11-87, Cl. 242-47.000.

Kurtz, John G. Energizable lamp socket. 4,685,759, 8-11-87, Cl. 200-51.140.

Kurtz, John W.: *See—*

Wendling, Robert W.; Kurtz, John W.; and Perez, Juan M., 4,691,886, Cl. 248-183.000.

Kurtz, Leonard D.; and LiCausi, Joseph, to BioResearch Inc. Air leak detection chamber for drainage device. 4,648,874, 3-10-87, Cl. 604-321.000.

Kurtz, Leonard D.; and LiCausi, Joseph M., to BioResearch Inc. Surgical drainage apparatus. 4,675,011, 6-23-87, Cl. 604-320.000.

Kurtz, Neil M.; Newton, Roger E.; and Temple, Davis L., Jr., to Bristol-Myers Company. Method for alleviation of panic disorders. 4,634,703, 1-6-87, Cl. 514-252.000.

Kurtz, Robert J., to BioResearch Ithaca Inc. Device for detecting increased pressure in pleural cavity. 4,685,908, 8-11-87, Cl. 604-321.000.

Kurtz, Robert L.; and Whiting, John F., to Xerox Corporation. Reproducing apparatus cartridge mounting assembly. 4,655,578, 4-7-87, Cl. 355-3.00R.

Kurtz, Thomas D. Door hinge shim. 4,639,971, 2-3-87, Cl. 16-247.00

Kurtzman, Gary; Heck, Joseph P.; Hansen, Kenneth A.; Enderby, Ralph; and Vidugiris, Bronis, to Motorola, Inc. Frequency synthesizer. 4,714,899, 12-22-87, Cl. 331-1.00A.

Kurtzman, Myron B.: *See—*

Agapiou, Agapios K.; Muhle, Michael E.; and Kurtzman, Myron B., 4,701,506, Cl. 526-128.000.

Kurumi, Masateru: *See—*

Fujii, Setsuro; Nakayama, Toyoo; Nunomura, Shigeki; Matsui, Ryoji; Watanabe, Shin-ichi; Sudo, Kimio; Okutome, Toshiyuki; Kurumi, Masateru; Sakurai, Yojiro; and Aoyama, Takuo, 4,634,783, Cl. 549-475.000.

Kurumiya, Tadashi: *See—*

Kondo, Kunio; Haga, Katutoshi; Kurumiya, Tadashi; Haga, Minoru; Kato, Yasuo; and Kaneko, Shinobu, 4,643,623, Cl. 409-232.000.

Kurusu, Shozo. Sports Rackets. 4,655,455, 4-7-87, Cl. 273-73.00C

Kurusu, Yasuo; and Morizumi, Yoshiaki, to Dainippon Screen Mfg. Co., Ltd. Image input device and a method of correcting input signals of the same. 4,691,240, 9-1-87, Cl. 358-282.000

Kurusu, Yasuo: *See—*

Tomohisa, Kunio; Cho, Masamichi; and Kurusu, Yasuo, 4,672,463, Cl. 358-284.000.

Tomohisa, Kunio; Cho, Masamichi; and Kurusu, Yasuo, 4,712,141, Cl. 358-280.000.

Kurvers, Hedwigus A. M. H.; and Bras, Adrianus, to IHC Holland N.V. Handling device for suction head equipment. 4,646,450, 3-3-87, Cl. 37-72.000.

Kurywczak, Eugene. Ringgearless twin sun planetary power amplifier. 4,641,552, 2-10-87, Cl. 74-802.000.

Kurz, Craven H. Lingual orthodontic appliance system. 4,669,981, 6-2-87, Cl. 433-9.000.

Kurz, Dieter; and Schafer, Norbert, to Carl-Zeiss-Stiftung. Detector for back-scattered electrons. 4,700,075, 10-13-87, Cl. 250-368.000.

Kurz, Erich, to Dr. Ing. h.c.F. Porsche Aktiengesellschaft. Electrical cooling fan. 4,677,941, 7-7-87, Cl. 123-41.120.

Kurz, Heinrich: *See—*

Dammann, Hans; and Kurz, Heinrich, 4,679,901, Cl. 350-162.200

Kurz, John H., to Canada Cup, Inc. Tearable structure. 4,670,352, 6-2-87, Cl. 428-571.000.

Kurz, Karl H.; and Schilling, Andres. Device for the determination of the inner dimensions of hollow organs. 4,685,474, 8-11-87, Cl. 128-778.000.

Kurz Kunstoffe GmbH: *See—*

Seifert, Josef, 4,702,533, Cl. 312-12.000.

Kurz, Walter, to Electrohome Limited. Regulation of picture size with varying scan frequency. 4,679,211, 7-7-87, Cl. 315-399.000.

Kurzbock, Erich, to Teufelberger Gesellschaft m.b.H. Rope. 4,640,17 2-3-87, Cl. 87-6.000.

Kurzeja, Ronald: *See—*

Bell, A. Milton; Gamberg, Murray G.; and Kurzeja, Ronald, 4,661,071, Cl. 433-223.000.

Bell, A. Milton; Gamberg, Murray G.; and Kurzeja, Ronald, 4,671,770, Cl. 433-223.000.

Kurzen, Aaron. Construction panel system. 4,635,411, 1-13-87, Cl. 52-71.000.

Kurzidim, Johannes: *See—*

Weber, Alfred; Wilke, Detlef; Kurzidim, Johannes; and Kennecke, Mario, 4,644,067, Cl. 548-497.000.

Kurzinski, Cass R., to AMB Technology, Inc. System for oscillating mold tube in continuous casting apparatus. 4,669,525, 6-2-87, Cl. 164-416.000.

Kus, Helmut: *See—*

Jaumann, Leonhard; and Kus, Helmut, 4,657,267, Cl. 280-47.110

Jaumann, Leonhard; and Kus, Helmut, 4,697,773, Cl. 248-162.100

Kusaba, Yoshiaki; and Hayashi, Chihiro, to Sumitomo Metal Industries, Ltd. Continuous rolling method and continuous rolling mill. 4,669,293, 6-2-87, Cl. 72-235.000.

Kusaka, Hideo: *See—*

Isono, Haruo; Kusaka, Hideo; and Hasegawa, Takeshi, 4,680,639, Cl. 358-224.000.

Kusaka, Hiroki, to Pioneer Electronic Corporation. Cassette-receiving door device for cassette tape recorder. 4,635,148, 1-6-87, Cl. 360-96.600.

Kusaka, Kohei; Ichimura, Masaaki; and Anami, Yuuichi, to Kabushiki Kaisha Komatsu Seisakusho. Controller device for wheeled construction machine. 4,649,768, 3-17-87, Cl. 74-484.00R.

Kusaka, Kohei, to Kabushiki Kaisha Komatsu Seisakusho. Brake system for use in a construction vehicle. 4,660,696, 4-28-87, Cl. 192-4.00A.

Kusaka, Masaharu: *See—*
Ueda, Koutarou; Hasegawa, Noboru; Machihara, Akio; Kusaka, Masaharu; Orii, Kohei; and Noguchi, Yoshiro, 4,692,197, Cl. 156-189.000.

Kusaka, Satoshi, to Sony Corporation. Image input apparatus. 4,639,790, 1-27-87, Cl. 358-293.000.

Kusaka, Teruo, to NEC Corporation. Thyristor having a controllable gate trigger current. 4,694,319, 9-15-87, Cl. 357-38.000.

Kusaka, Yoshimi; Yoshinari, Takashi; and Watanabe, Hiroshi, to Hitachi, Ltd. Ignition coil assembly for internal combustion engines. 4,658,799, 4-21-87, Cl. 123-622.000.

Kusaka, Yosuke; and Shimomura, Jun, to Nippon Kogaku K. K. Focus detecting apparatus. 4,644,148, 2-17-87, Cl. 250-201.000.

Kusaka, Yosuke; and Utagawa, Ken, to Nippon Kogaku K. K. Focus detecting device for removing vignetting effects. 4,687,917, 8-18-87, Cl. 250-201.000.

Kusakabe Electric & Machinery Co. Ltd.: *See—*
Akiyama, Masashi; and Tagashira, Yasuo, 4,709,845, Cl. 228-17.000.
Kusakabe, Mitsuo, 4,637,287, Cl. 83-319.000.

Kusakabe, Mitsuo, to Kusakabe Electric & Machinery Co., Ltd. Dimpleless tube cutting apparatus. 4,637,287, 1-20-87, Cl. 83-319.000.

Kusakabe, Takaya: *See—*
Yamanaka, Kazuo; Nagano, Hiroo; Minami, Takao; Okada, Yaautaka; Inoue, Mamoru; Susukida, Hiroshi; Onimura, Kichiro; Yonezawa, Toshio; Sasaguri, Nobuya; Kawaguchi, Katsuji; and Kusakabe, Takaya, 4,714,501, Cl. 148-13.000.

Kusakabe, Yukio: *See—*
Arai, Takeo; Anno, Nobuo; Kinoshita, Yusuke; and Kusakabe, Yukio, 4,683,844, Cl. 123-41.740.

Kusakari, Masaki: *See—*
Doi, Kengo; Nitta, Shinichi; Kusakari, Masaki; and Takahashi, Nobuhiko, 4,665,081, Cl. 514-356.000.

Kusakawa, Nobuhiro: *See—*
Tomioka, Hiroyuki; Nakata, Mitsuo; Kusakawa, Nobuhiro; and Torigoe, Kaname, 4,642,979, Cl. 57-264.000.

Kusakawa, Yukio, to Nippondenso Co., Ltd. Motor-driven fuel pump. 4,650,404, 3-17-87, Cl. 417-440.000.

Kusaki, Takami: *See—*
Hatamura, Yotaro; Ono, Kozo; Takada, Ryuji; and Kusaki, Takami, 4,674,339, Cl. 73-862.040.

Kusama, Tsuneo: *See—*
Hamaoka, Toshiyuki; Fujiwara, Hiromi; Kusama, Tsuneo; and Komiya, Masahiro, 4,672,106, Cl. 530-331.000.
Hamaoka, Toshiyuki; Fujiwara, Hiromi; and Kusama, Tsuneo, 4,681,856, Cl. 536-53.000.

Kusano, Chushirou; Ishioka, Sachio; Imamura, Yoshinori; Takasaki, Yukio; Ogawa, Hirofumi; Makishima, Tatsuo; and Hirai, Tadaaki, to Hitachi, Ltd. Image pickup tube. 4,636,682, 1-13-87, Cl. 313-386.000.

Kusano, Fumio: *See—*
Hiramatsu, Minoru; Kawasaki, Hitoshi; and Kusano, Fumio, 4,655,882, Cl. 204-16.000.

Kusano, Hiroshi: *See—*
Itagaki, Takaharu; Kusano, Hiroshi; Miyata, Eiji; and Kubota, Hirohisa, 4,696,745, Cl. 210-502.100.

Kusano, Shoji: *See—*
Motojima, Kenji; Miyazawa, Takeshige; Toyokawa, Yasufumi; Matsuzawa, Masafumi; Hokari, Hiroshi; and Kusano, Shoji, 4,678,496, Cl. 71-76.000.

Kusano, Takae; and Ueno, Masato, to Molten Corporation; and Kabushiki Kaisha Four Brain. Partial dental prosthesis. 4,634,381, 1-6-87, Cl. 433-172.000.

Kusano, Takae; and Ueno, Masato, to Molten Corporation; and Kabushiki Kaisha Four Brain. Attachment for dental prosthesis. 4,634,382, 1-6-87, Cl. 433-182.000.

Kusano, Takae; Ueno, Masato; and Hirakiuchi, Masanori, to Molten Corporation; and Fourbrain Kabushiki Kaisha. Denture base provided with rubber-like resilient lining layer and process for producing the same. 4,654,006, 3-31-87, Cl. 433-168.100.

Kusase, Shin: *See—*
Kato, Hidetoshi; Mayumi, Nobuo; Kusase, Shin; and Matsuhashi, Hajime, 4,634,954, Cl. 322-28.000.

Kusayama, Masahiro: *See—*
Morioka, Koitsu; and Kusayama, Masahiro, 4,658,480, Cl. 24-389.000.

Kusayanagi, Sampo: *See—*
Kaimai, Takashi; and Kusayanagi, Sampo, 4,707,280, Cl. 252-49.600.

Kusayanagi, Yoshikazu: *See—*
Hirai, Shiro; Hirano, Hiroshi; Arai, Hirotoshi; Kiba, Yasuo; Shibata, Hisanari; Kusayanagi, Yoshikazu; Yotsuji, Minako; Hashiba, Kazuhiko; and Tanada, Kikuko, 4,643,849, Cl. 540-955.000.

Kusch & Co. Stizmobelwerke KG: *See—*
Desanta, Simon, 4,640,548, Cl. 297-320.000.

Kusch, Hans-Jurgen: *See—*
Maul, Bernhard; Zobl, Gunter; and Kusch, Hans-Jurgen, 4,690,394, Cl. 271-11.000.

Kuschall, Rainer, to Paratec AG. Wheel chair. 4,682,783, 7-28-87, Cl. 280-242.0WC.

Kusche, David W.: *See—*
Freund, Michael A.; Jennerjahn, Paul H.; and Kusche, David W., 4,668,199, Cl. 440-89.000.

Kuse, Kazuki, to Yoshida Kogyo K. K. Apparatus for combining fastener stringers. 4,640,008, 2-3-87, Cl. 29-767.000.

Kuse, Satoru: *See—*
Ishikawa, Masao; Koboshi, Shigeharu; and Kuse, Satoru, 4,687,731, Cl. 430-372.000.
Kobayashi, Kazuhiro; Koboshi, Shigeharu; Kuse, Satoru; Miyaoka, Kazuyoshi; and Kurematsu, Masayuki, 4,705,377, Cl. 354-322.000.
Kobayashi, Kazuhiro; Koboshi, Shigeharu; Kuse, Satoru; Miyaoka, Kazuyoshi; Kurematsu, Masayuki; and Uchida, Makoto, 4,705,379, Cl. 354-324.000.
Miyaoka, Kazuyoshi; Kobayashi, Kazuhiro; Kuse, Satoru; Kurematsu, Masayuki; and Koboshi, Shigeharu, 4,705,378, Cl. 354-324.000.

Kuse, Tsutomu: *See—*
Tajima, Atsushi; Suzuki, Nobuo; and Kuse, Tsutomu, 4,634,624, Cl. 428-212.000.

Kusenberger, Felix N., deceased: *See—*
Moyer, Mark C.; Perry, William D.; Silvus, H. Stanley, Jr.; Gibson, William C.; and Kusenberger, Felix N., deceased, 4,675,604, Cl. 324-220.000.

Kusenberger, Lou A., heiress: *See—*
Moyer, Mark C.; Perry, William D.; Silvus, H. Stanley, Jr.; Gibson, William C.; and Kusenberger, Felix N., deceased, 4,675,604, Cl. 324-220.000.

Kushi, Kenji: *See—*
Sasaki, Isao; Nishida, Kozi; Morimoto, Masaru; and Kushi, Kenji, 4,689,243, Cl. 427-54.100.

Kushi, Naoto; Okano, Hiroshi; Kobayashi, Nobuyuki; and Sugita, Naoki, to Toyota Jidosha Kabushiki Kaisha. Fuel injection method and device providing simple atmospheric pressure compensation for engine incorporating open to atmosphere fuel pressure regulator valve. 4,696,275, 9-29-87, Cl. 123-478.000.

Kushibe, Norishige; and Shinozuka, Kaoru. Automatic welding apparatus. 4,660,753, 4-28-87, Cl. 228-48.000.

Kushida, Hachiro, to Citizen Watch Co., Ltd. External member for a watch. 4,640,625, 2-3-87, Cl. 368-280.000.

Kushida, Keiko; and Takeuchi, Hiroshi, to Hitachi, Ltd. Piezoelectric transducer and process for its production. 4,677,336, 6-30-87, Cl. 310-334.000.

Kushida, Keiko; Takeuchi, Hiroshi; and Katakura, Kageyoshi, to Hitachi, Ltd. Acoustic transducers utilizing ZnO thin film. 4,692,653, 9-8-87, Cl. 310-334.000.

Kushida, Noritaka: *See—*
Amano, Katsuhisa; Arai, Yasuhisa; Kushida, Noritaka; and Asakura, Masahiko, 4,665,883, Cl. 123-571.000.
Asakura, Masahiko; Kawanabe, Tomohiko; Ueda, Masahiro; Kubota, Shinichi; Kushida, Noritaka; and Matsumoto, Yukihiro, 4,694,803, Cl. 123-440.000.
Asakura, Masahiko; Kawanabe, Tomohiko; Kushida, Noritaka; and Hasebe, Hiroshi, 4,706,637, Cl. 123-589.000.
Kawanabe, Tomohiko; Asakura, Masahiko; Muroya, Minoru; Kimura, Katsuhiko; Kushida, Noritaka; and Hasebe, Hiroshi, 4,665,874, Cl. 123-440.000.
Kawanabe, Tomohiko; Asakura, Masahiko; Kushida, Noritaka; Shiina, Takanori; and Muroya, Minoru, 4,705,012, Cl. 123-589.000.
Kawanabe, Tomohiko; Kushida, Noritaka; Asakura, Masahiko; and Seki, Yasunari, 4,715,350, Cl. 123-587.000.
Kawanabe, Tomohiko; Asakura, Masahiko; Kushida, Noritaka; and Kimura, Katsuhiko, 4,715,352, Cl. 123-589.000.

Kushida, Takashi, to Olympus Optical Co., Ltd. Fluorescent spectral analysis apparatus. 4,675,529, 6-23-87, Cl. 250-458.100.

Kushida, Takeo; and Yamada, Keiichi, to Diesel Kiki Co., Ltd. Fuel injection nozzle unit for internal combustion engines. 4,637,553, 1-20-87, Cl. 239-533.400.

Kushida, Takeo; and Yamada, Keiichi, to Diesel Kiki Co., Ltd. Electromagnetic actuators. 4,673,163, 6-16-87, Cl. 251-129.100.

Kushida, Takeo; and Taniai, Youichi, to Diesel Kiki Co., Ltd.; and Sanken Airpax Co., Ltd. Electromagnetic actuator with concentric coil resin fill. 4,677,327, 6-30-87, Cl. 310-43.000.

Kushida, Takeo, to Diesel Kiki Co., Ltd. High speed electromagnetic valve. 4,678,000, 7-7-87, Cl. 137-1.000.

Kushida, Yuichiro; Tago, Shigenobu; and Aoyagi, Tatsuhiro, to Denki Kagaku Kogyo Kabushiki Kaisha. Flame-retardant resin composition. 4,657,974, 4-14-87, Cl. 525-73.000.

Kushino, Mitsuo: *See—*
Tsubakimoto, Tsuneo; Fujikawa, Iwao; and Kushino, Mitsuo, 4,640,584, Cl. 350-344.000.

Kushmaul, Richard T.: *See—*
Leslie, Elmer N.; Treadwell, Stephen S., III; DiFloria, Thomas J.; Propst, Larry D.; Kushmaul, Richard T.; Abney, Paul A.; Stevenson, Kenneth; and Thomaston, C. Kenneth, 4,686,540, Cl. 346-33.00R.

Kushner, Gerald J.; and Toma, Daniel N., to General Electric Company. Automatic washer suspension system. 4,640,105, 2-3-87, Cl. 68-23.300.

Kusiak, Edward H., to United Technologies Corporation. Actuator having tolerance to ballistic damage. 4,644,852, 2-24-87, Cl. 92-151.000.

Kusmierz, Hans: *See—*
Goepel, Ernst; and Kusmierz, Hans, 4,716,422, Cl. 346-140.00R.

Kuss, John M.: *See—*
Nystuen, Arne M.; and Kuss, John M., 4,675,566, Cl. 310-254.000.

Kussel, Willy; and Bohle, Werner, to Gewerkschaft Eisenhutte Westfalia. Gearing units for use with mining equipment. 4,682,678, 7-28-87, Cl. 192-56.00F.

Kussel, Willy; Dettmers, Michael; and Weirich, Walter, to Gewerkschaft Eisenhutte Westfalia GmbH. Control of the actuation of hydraulic consumers. 4,702,148, 10-27-87, Cl. 91-527.000.

Kussel, Willy: *See—*
  Trox, Uwe, and Kussel, Willy, 4,708,394, Cl. 299-1.000.

Kussi, Siegfried: *See—*
  Alberts, Heinrich; Kussi, Siegfried; Grape, Wolfgang; and Schlak, Ottfried, 4,652,386, Cl. 252-49.600.
  Hentschel, Karl-Heinz; Kussi, Siegfried; and Botsch, Hansjurgen, 4,666,618, Cl. 252-47.000.

Kussmaul, Ewald: *See—*
  Ganter, Wolfgang; Flaig, Oskar; Oertel, Heinrich; Kaiser, Hans; Kussmaul, Ewald; and Brede, Hermann, 4,666,313, Cl. 368-205.000.

Kussmaul, Ulrich; Langer, Manfred; Reh, Kuno; Becherer, Johannes; Wille, Herbert; and Muller, Rolf, to Cassella Aktiengesellschaft. Process for the preparation of 2-mercaptobenzoxazoles. 4,677,209, 6-30-87, Cl. 548-221.000.

Kussmaul, Ulrich: *See—*
  Becherer, Johannes; Handte, Reinhardt; Nestler, Hans J.; and Kussmaul, Ulrich, 4,714,766, Cl. 548-217.000.

Kustanovich, Yosef, to Cybertronics Ltd. Surface-area pressure transducer and line-selection circuit for use therewith. 4,644,801, 2-24-87, Cl. 73-862.040.

Kustanovich, Yosef, to Cybertronics Ltd. Electrical device for indicating the force and/or location of target impacts or other forces. 4,659,090, 4-21-87, Cl. 273-376.000.

Kuster & Co. GmbH: *See—*
  Hornivius, Lothar, 4,694,610, Cl. 49-351.000.

Kuster, Daniel: *See—*
  Kiehl, Jean-Pierre; and Kuster, Daniel, 4,670,407, Cl. 501-87.000.

Kuster, Donald F.; and Herbst, Edward, to Continental Can Company, Inc. Pallet clamp assembly. 4,676,705, 6-30-87, Cl. 410-80.000.

Kuster, Erich: *See—*
  Dahmen, Kurt; Kuster, Erich; Mertens, Richard; and Brehm, Helmut, 4,644,083, Cl. 564-205.000.

Kuster, Kaspar, to Oloid AG. Device for driving a body that performs a tumbling and rotating movement. 4,669,225, 6-2-87, Cl. 51-163.100.

Kuster, Robert J.; and Ross, Jay B., to New Flite Inc. Control yoke apparatus for computerized aircraft simulation. 4,659,313, 4-21-87, Cl. 434-45.000.

Kuster, Willi; Krieger, Karl; and Reinelt, Werner, to Hermann Hemscheidt Maschinenfabrik GmbH & Co. Pressure-limiting valve. 4,660,595, 4-28-87, Cl. 137-494.000.

Kusters, Eduard: *See—*
  Ahrweiler, Karl-Heinz, 4,651,552, Cl. 72-245.000.
  Appenzeller, Valentin, deceased; Appenzeller, Maria, heir; Appenzeller, Regine, heir; Pegels, Doris, heir; and Appenzeller, Ernst, heir, 4,709,629, Cl. 100-162.00B.
  Mingers, Peter-Friedel; and Kusters, Karl-Heinz, 4,656,709, Cl. 29-113.00R.
  Urban, Peter, 4,642,839, Cl. 15-256.530.

Kusters, Karl-Heinz: *See—*
  Mingers, Peter-Friedel; and Kusters, Karl-Heinz, 4,656,709, Cl. 29-113.00R.

Kustom Fit Manufacturing Co., Ltd.: *See—*
  Gonzalez, Jose M., 4,669,135, Cl. 5-37.00R.

Kusubayashi, Toshiaki: *See—*
  Hirakawa, Tadashi; Waseda, Masashi; Kusubayashi, Toshiaki; and Tokumaru, Isao, 4,667,953, Cl. 271-280.000.

Kusube, Haruo; Ochiai, Kiyoshi; Fukumoto, Tetsuhiro; and Takeuchi, Akihiro, to Sumitomo Rubber Industries, Ltd. Tire tread with zig-zag grooves with projections in groove. 4,703,788, 11-3-87, Cl. 152-209.00R.

Kusuda, Takao; Mihara, Toshihiro; Yonemura, Masaaki; and Kuwano, Satoshi, to Matsushita Electric Industrial Co., Ltd. Exhaust gas filter. 4,652,286, 3-24-87, Cl. 55-523.000.

Kusuda, Tatsufumi: *See—*
  Tokunaga, Hiroshi; Soma, Shinobu; Aoki, Naoki; and Kusuda, Tatsufumi, 4,674,860, Cl. 355-3.0TR.

Kusuhara, Masaki, to Wacom Co., Ltd. Solar simulator. 4,641,227, 2-3-87, Cl. 362-231.000.

Kusuki, Yoshihiro; Kikuchi, Masao; and Takeuchi, Yoshio, to UBE Industries, Ltd. Spun yarn piling and cleaning method. 4,654,910, 4-7-87, Cl. 8-151.200.

Kusuma, Djuanarto-Adi: *See—*
  Hildebrand, Reinhard; and Kusuma, Djuanarto-Adi, 4,669,370, Cl. 98-2.000.
  Hildebrand, Reinhard; and Kusuma, Djuanarto-Adi, 4,702,155, Cl. 98-2.000.

Kusumgar, Rajal M.; and Amond, Carl A., to Celanese Corporation. Acetal polymer compositions having improved impact strength. 4,665,126, 5-12-87, Cl. 525-66.000.

Kusumgar, Rajal M., to Celanese Corporation. Polyoxymethylene molding compositions exhibiting improved toughness. 4,713,414, 12-15-87, Cl. 525-64.000.

Kusumi, Takaaki: *See—*
  Yoshizumi, Hajime; Amachi, Teruo; Kusumi, Takaaki; Tanaka, Takaharu; and Ishigooka, Hiroshi, 4,670,255, Cl. 424-93.000.

Kusumoto, Akio: *See—*
  Taki, Masaru; Okada, Hiroshi; Kawamura, Seijiro; Kusumoto, Akio; Morita, Koji; Ikenaga, Takao; Shigematsu, Toshifumi; and Iida, Masami, 4,692,951, Cl. 4-664.000.

Kusumoto, Hiroshi: *See—*
  Iseki, Masahide; Yoshiyama, Toshio; Kajita, Hiroshi; Itakiyo, Masanori; Kusumoto, Hiroshi; Kawamori, Yoshizo; and Kawamoto, Masuo, 4,668,076, Cl. 355-15.000.
  Iseki, Masahide; Yoshiyama, Toshio; Kajita, Hiroshi; Itakiyo, Masanori; Kusumoto, Hiroshi; Kawamori, Yoshizo; and Kawamoto, Masuo, 4,674,859, Cl. 355-3.0FU.
  Iseki, Masahide; Yoshiyama, Toshio; Kajita, Hiroshi; Itakiyo, Masanori; Kusumoto, Hiroshi; Kawamori, Yoshizo; and Kawamoto, Masuo, 4,685,792, Cl. 355-3.0SH.

Kusumoto, Koji: *See—*
  Hyodo, Masakatsu; Kusumoto, Koji; and Sokawa, Takuji, 4,686,126, Cl. 428-36.000.

Kusumoto, Yoshihiro: *See—*
  Tada, Akira; Morita, Takamitsu; Teraue, Takeshi; and Kusumoto, Yoshihiro, 4,636,554, Cl. 525-359.300.

Kusunoki, Gen; Meguro, Akira; Tokushima, Yasuo; Ohta, Koji; Kawai, Tadashi; and Sugata, Akihiko, to Toyota Jidosha Kabushiki Kaisha. System for painting components of an automobile. 4,667,621, 5-26-87, Cl. 118-687.000.

Kusunoki, Kenji: *See—*
  Kawata, Tomoshi; and Kusunoki, Kenji, 4,651,641, Cl. 101-217.000.

Kusunoki, Kokyo: *See—*
  Take, Takao; Kaneko, Katsuaki; Kusunoki, Kokyo; and Ichiha Toshinobu, 4,645,548, Cl. 156-39.000.

Kusunoki, Shigeru; Nishimura, Tadashi; and Sugahara, Kazuyuki, to Mitsubishi Denki Kabushiki Kaisha. Method for manufacturing a monocrystalline semiconductor device. 4,661,167, 4-28-87, Cl. 148-1.500.

Kusunoki, Shigeru; and Maehara, Naoyoshi, to Matsushita Electric Industrial Co., Ltd. Heating apparatus with piezoelectric device sensor. 4,672,180, 6-9-87, Cl. 219-494.000.

Kusunoki, Shigeru: *See—*
  Maehara, Naoyoshi; Matsumoto, Takahiro; Kusunoki, Shigeru; Sakamoto, Kazuho; and Mihara, Makoto, 4,704,674, Cl. 363-131.000.
  Nishimura, Tadashi; Sugahara, Kazuyuki; Kusunoki, Shigeru; and Inoue, Yasuo, 4,694,143, Cl. 219-388.000.
  Sugahara, Kazuyuki; Nishimura, Tadashi; Kusunoki, Shigeru; and Inoue, Yasuo, 4,714,684, Cl. 437-19.000.

Kuswa, Glenn W.; and Leeper, Ramon J., to United States of America Energy. Magnetically insulated diode for generating pulsed neutron and gamma ray emissions. 4,675,145, 6-23-87, Cl. 376-108.000.

Kuswa, Glenn W.: *See—*
  Benson, David A., and Kuswa, Glenn W., 4,700,629, Cl. 102-201.000.

Kusy, Paul F.: *See—*
  Douglas, Gary R.; Kusy, Paul F.; and Grotelueschen, Ralph D. 4,671,882, Cl. 210-720.000.

Kusz, Maximillian, to Owens-Illinois, Inc. Tamper indicating device. 4,645,087, 2-24-87, Cl. 215-254.000.

Kuszewski, James R.: *See—*
  Lewis, David F.; and Kuszewski, James R., 4,705,741, Cl. 430-333.000.

Kut Kwick Corporation: *See—*
  Torras, Robert M., 4,700,536, Cl. 56-15.800.

Kutelia, Elgudzha R.: *See—*
  Asatiani, Georgy N.; Pikus, Evgeny A.; Kutelia, Elgudzha R.; Tsivtsivadze, David M.; Mudzhiri, Yason N.; and Dzhalabadze, Nikolai V., 4,695,360, Cl. 204-404.000.

Kuth, Robert: *See—*
  Harms, Wolfgang; Kuth, Robert; and Wunderlich, Klaus, 4,676,803, Cl. 8-532.000.

Kuthi, Csaba: *See—*
  Ezer, Elemer; Harsanyi, Kalman; Petho, Hajnalka V.; Matuz, Judit; Szporny, Laszlo; Cholnoky, Eszter; Kuthi, Csaba; Trischler, Ferenc; Hegedus, Bela; Kapolnas, Marta; and Kallay, Anna, 4,713,388, Cl. 514-346.000.

Kuthi, Osaba: *See—*
  Ezer, Elemer; Harsanyi, Kalman; Vikar nee Petho, Hajnalka; Matuz, Judit; Szporny, Laszlo; Cholnoky, Eszter; Kuthi, Osaba; Trischler, Ferenc; Hegedus, Bela; Kapolnas nee Pap, Marta; and Kallay nee Sohonyai, Anna, 4,691,017, Cl. 546-298.000.

Kutrow, James R., to Babcock & Wilcox Company, The. Quick adjustable shatter jet mechanism. 4,659,020, 4-21-87, Cl. 239-752.000.

Kutscha, Herbert A.: *See—*
  Graciotti, Alessandro; and Kutscha, Herbert A., 4,713,779, Cl. 364-521.000.

Kutscher, Bernhard: *See—*
  Kessler, Horst; Kutscher, Bernhard; Obermeier, Rainer; and Mullner, Hubert, 4,650,788, Cl. 514-11.000.

Kutsukake, Masaki; Akada, Masanori; and Yamauchi, Mineo, to Da Nippon Insatsu Kabushiki Kaisha. Heat transfer printing sheet. 4,650,494, 3-17-87, Cl. 8-471.000.

Kutsukake, Mitsuhiro; Murata, Takahiko; Saito, Gunji; Komatsuzaki, Takeshi; Uehara, Kuniaki; Kato, Toshinobu; Hattori, Takeo; and Hayashida, Morimasa, to Honda Giken Kogyo Kabushiki Kaisha. Cutter housing for power-driven lawn mower. 4,711,077, 12-8-87, Cl. 56-320.200.

Kutsukake, Yukinori: *See—*
  Hamashima, Kazuo; Imakawa, Makoto; and Kutsukake, Yukino 4,671,822, Cl. 75-244.000.

Kutsuma, Teruo; Ikawa, Hiroshi; and Sato, Yoshiaki, to Fujirebi Kabushiki Kaisha. Antihypertensive 1,4-dihydropyridines having conjugated ester. 4,672,068, 6-9-87, Cl. 514-336.000.

Kutsumura, Shoji; and Isonaga, Touichi, to Nippon Steel Corp., and Fujicar Manu. Co. Ltd. Hot coke bucket and bucket car assembly. 4,681,662, 7-21-87, Cl. 202-270.000.

Kutsumura, Shoji; and Isonaga, Touichi, to Nippon Steel Corp.; and Fujicar Manu. Co. Ltd. Hot coke receiving device. 4,683,031, 7-28-87, Cl. 202-227.000.

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- Kunimune, Kouichi; Kutsuzawa, Yoshiya; and Konotsune, Shiro, 4,656,238, Cl. 528-26.000.
- Kunimune, Kouichi; Kutsuzawa, Yoshiya; and Konotsune, Shiro, 4,672,099, Cl. 528-26.000.

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Kuttruff, Manfred K.: *See—*
- Maxwell, Reginald R.; Budzinski, Walter J.; Kuttruff, Manfred K.; Stanish, Leo S., and Turner, Larry G., 4,647,086, Cl. 285-342.000.

Kutukhtin, Evgeny G.: *See—*
- Martyshenko, Jury P.; Martyshenko, Sergei J.; Kotelnikov, Jury S.; Kutukhtin, Evgeny G.; Ilyasova, Nelli L.; Volkov, Jury S.; Vardanian, Armenak M., and Petrosian, Misha S., 4,701,075, Cl. 405-217.000.

Kutz, Donald F.: *See—*
- Raap, Gerald G., 4,645,165, Cl. 248-476.000.

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- Karl, Alfons; Walter, Erwin; Kleinschmit, Peter; Gottschlich, Hermann; Kutz, Roland; and Koth, Detley, 4,642,304, Cl. 502-427.000.

Kutzavitch, Walter G.: *See—*
- Illuzzi, Vincent A.; Kutzavitch, Walter G.; and Rooney, Allen J., III, 4,642,550, Cl. 323-222.000.

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- Ahtola, Unto; and Kuusento, Jaakko, 4,648,467, Cl. 173-107.000.
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Kuusi, Juhani, to Robotest Oy. Procedure and means for measuring with aid of an x-ray tube the distribution of fillers or equivalent in a web. 4,696,023, 9-22-87, Cl. 378-46.000.

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Kuwabara, Akira, to Dainippon Screen Mfg. Co., Ltd. Method for generating a pixel synchronizing signal in a picture input scanning apparatus and a reproduction record scanning apparatus and apparatus therefor. 4,683,499, 7-28-87, Cl. 358-264.000.

Kuwabara, Akira: *See—*
- Mitsuka, Ikuo, and Kuwabara, Akira, 4,687,944, Cl. 250-578.000.
- Shida, Junji; Ono, Yoshio; Mitsuka, Ikuo; Hoki, Testuo; Kuwabara, Akira; Haibara, Hitoshi; and Sakamoto, Takashi, 4,656,517, Cl. 358-213.000.

Kuwabara, Hideki, and Naito, Masato, to Japan Styrene Paper Corporation. Energy absorber. 4,657,937, 4-14-87, Cl. 521-56.000.

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Kuwabara, Hideki: *See—*
- Akiyama, Hiroyuki; Izawa, Susumu; and Kuwabara, Hideki, 4,692,507, Cl. 528-481.000.
- Yoshimura, Shohei; Yamaguchi, Toru; Kanbe, Masato; and Kuwabara, Hideki, 4,704,239, Cl. 264-50.000.

Kuwabara, Hidemitsu: *See—*
- Hata, Ryosuke; Yamanouchi, Shosuke; Hirose, Masayuki; Kuwabara, Hidemitsu; Mizumoto, Yasuharu; and Haginda, Yasuhiro, 4,673,607, Cl. 428-172.000.

Kuwabara, Hideo; and Ohta, Takao, to Matsushita Electric Works, Ltd. Delay switch. 4,638,128, 1-20-87, Cl. 200-33.00R.

Kuwabara, Hiroshi; Ide, Jushi; Kamata, Yasuji; and Yamashita, Kenkichi, to Hitachi, Ltd. CRT picture display apparatus. 4,638,308, 1-20-87, Cl. 340-736.000.

Kuwabara, Kiyoharu: *See—*
- Hayashi, Atsushi; Kuwabara, Kiyoharu; Sakai, Kohzo; and Ishino, Toshihiro, 4,705,763, Cl. 501-103.000.

Kuwabara, Kiyoshi; Nishihara, Mikio; and Tsunoi, Kazuhisa, to Fujitsu Limited. High density multilayer printed circuit board. 4,675,789, 6-23-87, Cl. 361-414.000.

Kuwabara, Kiyoshi: *See—*
- Matsumoto, Masaru; Nishihara, Mikio; and Kuwabara, Kiyoshi, 4,692,843, Cl. 361-414.000.

Kuwabara, Masatoshi: *See—*
- Katayama, Hiroyuki; Ishikawa, Hidetake; Kuwabara, Masatoshi; Kajioka, Hiroyuki; Fujita, Masaki; Shibata, Kenji; Tamura, Yoshiaki; and Shimanuki, Takashi, 4,662,937, Cl. 75-80.000.

Kuwabara, Michiaki; and Hayashi, Hiromasa, to Tokyo Shibaura Denki Kabushiki Kaisha. IC socket having a backup power cell and circuit. 4,646,132, 2-24-87, Cl. 357-80.000.

Kuwabara, Shinichiro, to Sony Corporation. Optical modulation system. 4,709,417, 11-24-87, Cl. 455-611.000.

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Kuwabara, Takashi: *See—*
- Ogawa, Takayuki; Ito, Hideaki; Kimura, Naokazu; Ito, Hayami; Tatsumi, Shuhei; Takao, Shoichi; Suzuki, Nitaro; Watanabe, Takashi; Shinano, Kunizo; Kuwabara, Takashi; and Aoki, Kaoru, 4,712,742, Cl. 241-20.000.

Kuwabara, Tsumoru: *See—*
- Inoue, Tadashi; Kuwabara, Tsumoru, and Yoshie, Kiyotaka, 4,670,146, Cl. 210-490.000.

Kuwabara, Yoshiharu; and Hamada, Hiroyoshi, to Mitutoyo Mfg. Co., Ltd. Beam converter in optical measuring instrument. 4,637,680, 1-20-87, Cl. 350-6.800.

Kuwabara, Yoshiharu; and Hamada, Hiroyoshi, to Mitutoyo Mfg. Co., Ltd. Scanning ray beam generator for optical measuring device. 4,639,141, 1-27-87, Cl. 356-387.000.

Kuwabara, Yukimasa: *See—*
- Kageyama, Hidehei; and Kuwabara, Yukimasa, 4,714,365, Cl. 401-65.000.

Kuwae, Yoko: *See—*
- Haruta, Masahiro; Kuwae, Yoko; Yuasa, Satoshi; and Miyazaki, Toshihiko, 4,711,830, Cl. 430-52.000.

Kuwae, Yoshiteru: *See—*
- Shimamoto, Hideki; Miyazaki, Yoshio; Aoshima, Yoichi; Tsunetsugu, Tsuyoshi; Nagara, Hisao; Kuwae, Yoshiteru; and Shiono, Kazushi, 4,652,968, Cl. 361-319.000.

Kuwagaki, Hiroshi: *See—*
- Funada, Fumiaki; Kuwagaki, Hiroshi; Yamamoto, Kunihiko; and Matsuura, Masataka, 4,705,360, Cl. 350-344.000.
- Takamatsu, Toshiaki; Kuwagaki, Hiroshi; Minezaki, Shigehiro; Yamamoto, Kunihiko; Nakatani, Hiroshi; and Kawaguchi, Hisao, 4,690,510, Cl. 350-334.000.

Kuwahara, Eiji, to Kabushiki Kaisha Toshiba. Refrigerating apparatus with single compressor and multiple evaporators. 4,658,596, 4-21-87, Cl. 62-197.000.

Kuwahara, Hajime; Ono, Yutaka; and Nikaido, Mitsuhiro, to Yokogawa Hokushin Electric Corporation. Displacement transducer which simultaneously extracts signals via sequential switching. 4,680,466, 7-14-87, Cl. 250-231.0SE.

Kuwahara, Heikichi; Takahashi, Kenji; Yanagida, Takehiko; Nakayama, Wataru; Sugimoto, Shigeo; Nakayama, Yoshihiko; Yoshida, Hiromichi; Oizumi, Kiyoshi; Sasaki, Toshi; and Fukuda, Shigeho, to Hitachi, Ltd.; and Hitachi Cable, Ltd. Method for producing a heat transfer wall for vaporizing liquids. 4,653,163, 3-31-87, Cl. 29-157.30R.

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Kuwahara, Heikichi: *See—*
- Takahashi, Kenji; Kuwahara, Heikichi; Yanagida, Takehiko; Nakayama, Wataru; Oizumi, Kiyoshi; and Sugimoto, Shigeo, 4,715,436, Cl. 165-133.000.

Kuwahara, Hidehiko: *See—*
- Tsutsui, Osamu; Kuwahara, Hidehiko; and Yasuda, Hirohiko, 4,653,538, Cl. 137-625.460.

Kuwahara, Hideo, to Fujitsu Limited. Optical circulator. 4,650,289, 3-17-87, Cl. 350-375.000.

Kuwahara, Hideo: *See—*
- Nakagawa, Hisato; Kuwahara, Hideo; Koyama, Atsuo; and Akatsuka, Mitsuo, 4,694,224, Cl. 315-177.000.

Kuwahara, Hideyuki; Kondo, Bunji; Takada, Jun; Yanagihara, Kenji; Kimura, Mituo; and Ninomi, Masahiro, to Japan Synthetic Rubber Co., Ltd.; and Applied Science Research Institute. Process for producing an internal-oxidized alloy or a shaped article thereof. 4,701,301, 10-20-87, Cl. 419-21.000.

Kuwahara, Kazuo: *See—*
- Okumura, Munehiro; Kuwahara, Kazuo; Arita, Masujiro; Mori, Shingo; Ohmura, Tetsuya; Yamamoto, Osamu; and Ishii, Shinichi, 4,668,401, Cl. 210-650.000.

Kuwahara, Kazuyoshi; Fukushima, Isao; Miura, Kuniaki; and Kano, Kenji, to Hitachi, Ltd. A recording circuit having means to automatically set the recording current of a magnetic recording head. 4,713,700, 12-15-87, Cl. 358-315.000.

Kuwahara, Koji: *See—*
- Kuromaru, Hiroshi; Morimoto, Tadakiyo; Kuwahara, Koji; Fujiwara, Kenji; Shimizu, Yujiro; Miyauchi, Reizo; Wakusawa, Kuniaki; Takama, Hideaki; Waseda, Masashi; and Fujita, Akihisa, 4,667,551, Cl. 83-72.000.

Kuwahara, Nobuhiro: *See—*
- Hashimoto, Hitoshi; Shibata, Takuzo; Nagano, Teruo; Hara, Kozo; Kuwahara, Nobuhiro; and Yashiki, Ikuo, 4,659,583, Cl. 426-629.000.

Kuwahara, Shinichi: *See—*
- Suzuki, Takahisa; Kuwahara, Shinichi; and Kawashima, Yoshinori, 4,712,633, Cl. 180-149.000.

Kuwahara, Takanori: *See—*

Yamada, Mutsuo; Nishimura, Yasuyuki; Arikawa, Yoshijiro; Kuwahara, Takanori; Kamiguchi, Taiji; and Tanimoto, Hirotoshi, 4,691,053, Cl. 562-531.000.

Kuwahara, Takao: *See—*

Haraguchi, Eiji; Nakagawa, Hiroto; Bando, Akira; Kuwahara, Takao; Nohara, Haruo; and Ono, Kenichi, 4,694,189, Cl. 290-40.00C.

Kuwahara, Yutaka: *See—*

Hirosawa, Toshio; Ohki, Masaru; Motobayashi, Shigeru; and Kuwahara, Yutaka, 4,646,235, Cl. 364-200.000.

Kuwait Institute for Scientific Research: *See—*

Akashah, Saed-el-Deen; Lahalih, Shawqui; and Al-Hajjar, Farouk, 4,686,790, Cl. 47-9.000.

Lahalih, Shawqui; and Absi-Halabi, Ma'mun, 4,663,387, Cl. 524-843.000.

Lahalih, Shawqui; and Absi-Halabi, Ma'mun, 4,677,159, Cl. 524-843.000.

Kuwajima, Hideki, to Matsushita Electric Industrial Co., Ltd. Magnetic recording and reproducing apparatus. 4,661,864, 4-28-87, Cl. 360-85.000.

Kuwajima, Soichi, to Nihon Schumacher Kabushiki Kaisha. Filter apparatus. 4,645,596, 2-24-87, Cl. 210-193.000.

Kuwajima, Takeshi: *See—*

Tanaka, Kouichi; Kuwajima, Takeshi; and Amazawa, Kiyoshi, 4,634,902, Cl. 307-542.000.

Tanaka, Kouichi; Kuwajima, Takeshi; and Amazawa, Kiyoshi, 4,680,792, Cl. 381-12.000.

Kuwajima, Teruaki: *See—*

Ito, Takeyasu; and Kuwajima, Teruaki, 4,705,821, Cl. 524-407.000.

Kuwakado, Satosi: *See—*

Sakakibara, Kazuo; Kuwakado, Satosi; Shimogawa, Toshiaki; Taguchi, Masahiro; Onimaru, Sadahisa; and Ina, Toshikazu, 4,669,780, Cl. 297-257.000.

Tsuge, Noboru; Taguchi, Masahiro; Kuwakado, Satosi; and Kato, Kazutaka, 4,666,097, Cl. 242-55.000.

Kuwamoto, Hiroshi; Nagamori, Hiroyuki; Mukai, Takashi; and Iwado, Shuichi, to Kao Corporation; and Nippon Kokan Kabushiki Kaisha. Metal-working oil composition. 4,637,885, 1-20-87, Cl. 252-32.500.

Kuwamoto, Hiroshi; Nagamori, Hiroyuki; Mukai, Takashi; Iwado, Shuichi; and Sakaguchi, Yoshihiro, to Kao Corporation; and Nippon Kokan Kabushiki Kaisha. Metal-working oil composition. 4,663,061, 5-5-87, Cl. 252-32.500.

Kuwamoto, Hiroshi; Nagamori, Hiroyuki; Mukai, Takashi; and Iwado, Shuichi, to Kao Corporation; and Nippon Kokan Kabushiki Kaisha. Metal-working oil composition. 4,664,823, 5-12-87, Cl. 252-34.000.

Kuwamoto, Hiroshi; Iwadoo, Shuichi; Okami, Yuji; Nagamori, Hiroyuki; and Nakagawa, Yasuhiro, to Kao Corporation; and Nippon Kokan Kabushiki Kaisha. Metal rolling oil composition. 4,693,839, 9-15-87, Cl. 252-51.50A.

Kuwamoto, Hiroshi: *See—*

Katayama, Toshitake; Kuwamoto, Hiroshi; Iwado, Shuichi; Sonoda, Sakae; Okamoto, Shoji; and Kaburagi, Koji, 4,666,617, Cl. 252-32.000.

Nagamori, Hiroyuki; Mukai, Takashi; Tsushima, Rikio; Kuwamoto, Hiroshi; Iwado, Shuichi; and Sharyo, Takeru, 4,650,595, Cl. 252-32.500.

Kuwamoto, Michio; Takahashi, Masahiro; and Hasegawa, Masafumi, to Futaba Denshi Kogyo Kabushiki Kaisha. Fluorescent display device having polygon shaped electrode ends. 4,651,055, 3-17-87, Cl. 313-496.000.

Kuwamura, Shinichi: *See—*

Ooka, Masataka; Kuwamura, Shinichi; and Murakami, Yoichi, 4,634,736, Cl. 525-117.000.

Kuwana, Kazutaka: *See—*

Hirao, Kouji; Kuwana, Kazutaka; and Asami, Ken, 4,702,123, Cl. 74-526.000.

Inden, Masahiro; Kuwana, Kazutaka; Nakanishi, Nobuyasu; and Noguchi, Noboru, 4,679,589, Cl. 137-596.170.

Kuwana, Tadashi, to Yamamoto Electric Industrial Co., Ltd. Method of producing armature winding and apparatus therefor. 4,633,576, 1-6-87, Cl. 29-597.000.

Kuwana, Takeshi: *See—*

Kawasaki, Tamotsu; Kuwana, Takeshi; and Morita, Minoru, 4,669,632, Cl. 220-423.000.

Kuwano, Hiroaki; Matsushita, Toshiro; Kakuma, Hideaki; and Motomiya, Teruaki, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha; and Kabushiki Kaisha Akashi Seisakusho. Direct-drive type electro-hydraulic servo valve. 4,648,580, 3-10-87, Cl. 251-129.010.

Kuwano, Satoshi: *See—*

Kusuda, Takao; Mihara, Toshihiro; Yonemura, Masaaki; and Kuwano, Satoshi, 4,652,286, Cl. 55-523.000.

Kuwano, Seigo: *See—*

Hasegawa, Teruyuki; Kuwano, Seigo; Yamaguchi, Ryuji; and Matsuo, Kazuniko, 4,650,517, Cl. 75-10.450.

Matsuo, Kazuhiko; Hasegawa, Teruyuki; Kuwano, Seigo; Yamaguchi, Ryuji; Shiwata, Akio; Hamada, Yoneichi; Komatsu, Yoshimi; Kondo, Tsuneo; Shirotani, Yusuke; Nakashima, Hirohisa, and Matsuda, Yasuhiro, 4,674,101, Cl. 373-95.000.

Kuwano, Yukinori: *See—*

Fukatsu, Takeo; Goto, Kazuyuki; Haku, Hisao; and Kuwano, Yukinori, 4,681,826, Cl. 430-65.000.

Minami, Koji; Goto, Kazuyuki; Haku, Hisao; Fukatsu, Takeo; Ohnishi, Michitoshi; and Kuwano, Yukinori, 4,670,367, Cl. 430-57.000.

Yamano, Masaru; Kuwano, Yukinori; Nakano, Shoichi; Matsuoka, Tsugufumi; Sakai, Souichi; Yagi, Hirosato; and Okuda, Nobuhiro, 4,670,293, Cl. 427-39.000.

Kuwasawa, Mitsuru: *See—*

Ikeda, Yoshiaki; and Kuwasawa, Mitsuru, 4,682,167, Cl. 340-825.230.

Kuwashima, Hidesumi: *See—*

Ikeda, Hiraku; and Kuwashima, Hidesumi, 4,714,401, Cl. 415-30.000.

Kuwata, Jun: *See—*

Matsuoka, Tomizo; Fujita, Yosuke; Kuwata, Jun; Abe, Atsushi; and Nitta, Tsuneharu, 4,664,985, Cl. 428-690.000.

Kuwata, Tamotsu; Suginaka, Yutaka; and Ohtomo, Hideo, to Meiji Milk Products Company Limited. Method of producing calcium-enriched aseptic soy bean curd. 4,673,583, 6-16-87, Cl. 426-573.000.

Kuwata, Yutaka; and Nerone, Louis R., to Nippon Telegraph & Telephone Corp.; and Reliance Comm/Tec Corporation. Series resonant converter with parallel resonant circuit. 4,691,273, 9-1-87, Cl. 363-132.000.

Kuwata, Yutaka: *See—*

Sakakibara, Kazuhiko; and Kuwata, Yutaka, 4,679,129, Cl. 363-17.000.

Kuwayama, Kiyoaki: *See—*

Mishima, Yasuhiro; Makibayashi, Katsunori; and Kuwayama, Kiyoaki, 4,637,595, Cl. 267-52.000.

Kuwayama, Shigeo: *See—*

Harada, Yuho; Maruyama, Tsutomu; Kumakura, Yoshiyuki; and Kuwayama, Shigeo, 4,710,216, Cl. 65-4.100.

Kuwayama, Tetsuro; Tanaka, Nobuyoshi; and Hashimoto, Seiji, to Canon Kabushiki Kaisha. Color solid state image pick-up device. 4,668,975, 5-26-87, Cl. 358-44.000.

Kuwayama, Yoshinari: *See—*

Yokoyama, Fumitomo; Kuwayama, Yoshinari; Tatsuta, Mitsugu; and Kuramochi, Koujiro, 4,683,903, Cl. 137-56.000.

Kuwazuka, Shunichiro: *See—*

Matsuyama, Haruhiko; Shoji, Fusaji; and Kuwazuka, Shunichiro, 4,686,147, Cl. 428-447.000.

Kuxdorf, Bernhard: *See—*

Hundeck, Joachim; Scholz, Harald; Hennen, Hans; Kuxdorf, Bernhard; and Pusche, Herbert, 4,672,142, Cl. 570-247.000.

Kuyel, Birol; and Sinclair, Paul F., III, to AT&T Technologies, Inc. Method and apparatus for rapidly controlling the flow of gas. 4,635,855, 1-13-87, Cl. 239-551.000.

Kuyel, Birol, to AT&T Technologies, Inc. Method and apparatus for producing x-ray pulses. 4,644,576, 2-17-87, Cl. 378-119.000.

Kuyper, Mark E.: *See—*

Drews, Reinhold A.; Jautakis, Karl; and Kuyper, Mark E., 4,700,495, Cl. 34-133.000.

Kuypers, Bert: *See—*

Hanak, Joseph J.; Young, James; Kuypers, Bert; and Blieden, Richard, 4,636,579, Cl. 136-245.000.

Kuypers, Leonardus P. C.; and Wolters, Gerrit, to Akzo N.V. Method for the immunochemical determination of hepatitis B core antigens. 4,701,410, 10-20-87, Cl. 435-7.000.

Kuypers, Leonardus P. C.; and Matthyssen, Ludovicus F. T., to Akzo, N.V. Determination of protecting anti-HBV immunoglobulins. 4,701,421, 10-20-87, Cl. 436-518.000.

Kuzara, David J., to American Cyanamid Company. Digital moisture dermatometer. 4,711,244, 12-8-87, Cl. 128-632.000.

Kuze, Katsuaki; Nishino, Yasuhiro; Matsuyama, Yujiro; Maeda, Kozo; Kobayashi, Masahiro; Okudaira, Tadashi; Hongo, Tsuyoshi; and Makimura, Osamu, to Toyo Boseki Kabushiki Kaisha. Oriented polyester film. 4,693,932, 9-15-87, Cl. 428-323.000.

Kuze, Saburo; Kato, Yoshiharu; and Kojima, Shozo, to Murata Manufacturing Co., Ltd. Apparatus for manufacturing a laminated unit of ceramic green sheets. 4,698,192, 10-6-87, Cl. 264-101.000.

Kuze, Shuichi; Inomata, Tamotsu; Muramoto, Setsuo; and Ikeda, Hisayuki, to Yokogawa Hokushin Electric Corporation. Solubilization chromatography. 4,676,897, 6-30-87, Cl. 210-198.200.

Kuze, Takashi: *See—*

Sugai, Shinzo; Yamane, Shigemi; and Kuze, Takashi, 4,640,723, Cl. 148-411.000.

Kuze, Yoshikazu. Read-only sequence controller. 4,658,347, 4-14-87, Cl. 364-140.000.

Kuze, Yoshikazu. EPROM programmer. 4,675,513, 6-23-87, Cl. 235-375.000.

Kuze, Yoshikazu. Cooling system for an automobile engine. 4,679,530, 7-14-87, Cl. 123-41.100.

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Goulot, Etienne; and Kwapisz, Jean, 4,657,453, Cl. 409-216.000.

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Gardziella, Arno; Kwasniok, Alois; Heerdegen, Harald; and Janocha, Gerhard, 4,634,723, Cl. 523-144.000.

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Solovieff, Paul, 4,664,433, Cl. 292-337.000.
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- Kwowa Hakko Kogyo Co., Ltd.: *See—*
  - Nakanishi, Toshihide; Hirao, Toshihiko; and Sakurai, Mineru, 4,657,860, Cl. 435-115.000.
- Kwoya Hakko Kogyo Co., Ltd.: *See—*
  - Kato, Yasuki; Hayakawa, Eiji; Furuya, Kunitoshi; and Kondo, Akira, 4,675,183, Cl. 424-85.000.
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  - Aschwanden, Werner; and Kyburz, Emilio, 4,650,878, Cl. 548-544.000.
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  - Imhof, Rene; and Kyburz, Emilio, 4,684,731, Cl. 546-138.000.
- Kydonieus, Agis F.: *See—*
  - Von Kohorn, Henry; and Kydonieus, Agis F., 4,639,393, Cl. 428-304.400.
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  - Von Kohorn, Henry; and Kydonieus, Agisa F., 4,666,767, Cl. 428-304.400.
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  - Douglas, Peter G.; and Kytfin, Morris N., 4,710,815, Cl. 358-186.000.
- Kyle, James C. Terminal assembly and method of making terminal assembly. 4,654,752, 3-31-87, Cl. 361-386.000.
- Kyle, James C. Electrical connector and method of producing electrical connector. 4,657,337, 4-14-87, Cl. 339-278.00C.
- Kyle, John R.: *See—*
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- Kyllmann, Clemens A.: *See—*
  - Chun, Kil Whan; and Kyllmann, Clemens A., 4,713,079, Cl. 8-101.000.
- Kyllonen, Allen W.: *See—*
  - Hart, James E.; Zoric, Michael T.; and Kyllonen, Allen W., 4,666,166, Cl. 277-212.0FB.
- Kyocera Corporation: *See—*
  - Arita, Hirotaka, 4,703,169, Cl. 250-211.00J.
  - Fujikawa, Nobuyoshi; Kawaminami, Syuichi; and Yokoe, Nobuo, 4,701,827, Cl. 361-309.000.
  - Horiuchi, Akito; Yokoyama, Kiyoshi; and Yoshida, Makoto, 4,716,133, Cl. 501-97.000.
  - Katayama, Toshikazu; Shibata, Tsugio; and Arimune, Hisao, 4,645,722, Cl. 428-694.000.
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  - Kawamura, Takao; and Sugimura, Akihiko, 4,645,304, Cl. 350-336.000.
  - Kawamura, Takao; Iwano, Hideaki; Miyamoto, Naooki; and Nishiguchi, Yasuo, 4,666,808, Cl. 430-65.000.
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  - Kawamura, Takao; Ejima, Keibun; Miyamoto, Naooki; Higuchi, Hisashi; and Nishiguchi, Yasuo, 4,689,284, Cl. 430-84.000.
  - Mizutani, Michitaka, 4,643,858, Cl. 264-62.000.
  - Morita, Keitoku, 4,673,821, Cl. 250-578.000.
  - Nagato, Yoshio; and Soroi, Kazunori, 4,639,426, Cl. 501-96.000.
  - Nakano, Yuji; Kamiyama, Kazushi; and Kobayashi, Tatuo, 4,703,020, Cl. 501-86.000.
  - Nishiguchi, Yasuo, 4,654,285, Cl. 430-69.000.
  - Nishiguchi, Yasuo; Yasutomi, Tsuyoshi; and Shiraishi, Ryoichi, 4,691,210, Cl. 346-76.0PH.
  - Nishiguchi, Yasuo; Yasutomi, Tsuyoshi; and Shiraishi, Ryoichi, 4,698,643, Cl. 346-76.0PH.
  - Nishiguchi, Yasuo; Minami, Keijirou; and Hoda, Masakazu, 4,701,769, Cl. 346-76.0PH.
  - Nishiguchi, Yasuo; Minami, Keijirou; and Hoda, Masakazu, 4,705,697, Cl. 427-36.000.
  - Nitta, Yoshiteru, 4,645,866, Cl. 136-244.000.
  - Ogawa, Motokazu; Nishiguchi, Yasuo; and Minami, Keijiro, 4,708,915, Cl. 428-698.000.
  - Okawa, Takashi; and Yokoe, Nobuo, 4,670,409, Cl. 501-135.000.
  - Onitsuka, Katsuhiko; and Emura, Hideo, 4,670,805, Cl. 360-103.000.
  - Saito, Akira, 4,681,861, Cl. 501-89.000.
  - Satou, Mamoru; and Yamaguchi, Kohichi, 4,656,052, Cl. 427-38.000.
  - Satou, Mamoru; and Yamaguchi, Kouichi, 4,657,774, Cl. 427-38.000.
  - Satou, Mamoru; and Yamaguchi, Kouichi, 4,676,194, Cl. 118-720.000.
  - Soroi, Kazunori, 4,656,145, Cl. 501-86.000.
  - Tajiri, Hiromitsu; Nishiguchi, Yasuo; and Matsuyama, Chiaki, 4,652,767, Cl. 250-578.000.
  - Toeda, Shigetoshi, 4,714,062, Cl. 123-273.000.
  - Yamada, Takashi; Arimune, Hisao; and Maeda, Takashi, 4,680,742, Cl. 369-13.000.
  - Yamashita, Yukio, 4,642,510, Cl. 310-348.000.
  - Yokoe, Nobuo; and Okawa, Takashi, 4,704,657, Cl. 361-321.000.
- Kyocera International, Inc.: *See—*
  - Belter, Robert E., 4,660,907, Cl. 339-14.00R.
- Kyocera Kabushiki Kaisha: *See—*
  - Ueno, Masato, 4,682,644, Cl. 164-359.000.
  - Yoshida, Haruo, 4,653,950, Cl. 401-215.000.
- Kyoden, Hiroshi; Endo, Yasuhiro; Fujiwara, Teiichi; Mimura, Toshisada; Nishikawa, Kihachiro; and Nishizawa, Shoichi, to Shinagawa Refractories Co., Ltd.; and Matsushita Electric Industrial Co., Ltd. Apparatus for automatic measuring thermal dimensional change. 4,636,969, 1-13-87, Cl. 364-560.000.
- Kyoden, Tatsuo: *See—*
  - Tanaka, Morimasa; and Kyoden, Tatsuo, 4,698,463, Cl. 200-5.00R.
- Kyodo News Service: *See—*
  - Isogai, Masaki; and Kawahara, Atsushi, 4,639,787, Cl. 358-214.000.
  - Motoori, Ryuzo; Kimura, Makoto; Isogai, Masaki; Sato, Akimasa; and Kawahara, Atsushi, 4,651,226, Cl. 358-293.000.
  - Toyoda, Kenji; Kimura, Makoto; and Isogai, Masaki, 4,658,301, Cl. 379-100.000.
- Kyodo Printing Co., Ltd.: *See—*
  - Nakahara, Yoshihiko; Muramatsu, Masao; and Ueno, Kouichi, 4,682,017, Cl. 235-492.000.
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  - Toshitsugu, Kitayama, 4,636,392, Cl. 426-110.000.
- Kyogokil, Hideaki; and Kaito, Takashi, to Seiko Instruments & Electronics Ltd. Apparatus of regulating shape of focused ion beams. 4,704,526, 11-3-87, Cl. 250-307.000.
- Kyogoku, Hiroshi; Nozaki, Mineo; and Rachi, Masahiro, to Canon Kabushiki Kaisha. Printer. 4,655,130, 4-7-87, Cl. 101-93.230.
- Kyogoku, Tetsuo, to Minolta Camera Kabushiki Kaisha. Optical filter. 4,659,178, 4-21-87, Cl. 350-166.000.
- Kyokuto Kaihatsu Kogyo Co., Ltd.: *See—*
  - Ueda, Kouzou; Nagumo, Daisuke; Shuto, Hirotetsu; and Kuriyama, Hiroaki, 4,682,686, Cl. 198-844.000.
- Kyomasu, Mikio, to Ricoh Company Ltd. Input buffer circuit. 4,682,052, 7-21-87, Cl. 307-361.000.
- Kyomasu, Ryuichi: *See—*
  - Watanabe, Kenji; Yamazaki, Isamu; Kyomasu, Ryuichi; Takasugi, Nobuhiro; Mimata, Tsutomu; and Kakutani, Osamu, 4,674,670, Cl. 228-102.000.
- Kyono, Kazuaki: *See—*
  - Irie, Toshio; Kyono, Kazuaki; Kimura, Hajime; and Kurokawa, Shigeo, 4,640,872, Cl. 428-659.000.
- Kyoosei, Noriyuki; and Sato, Kenro, to Nippon Seiko Kabushiki Kaisha. Plastic-surrounded bearing. 4,668,209, 5-26-87, Cl. 474-190.000.
- Kyorin Pharmaceutical Co., Ltd.: *See—*
  - Irikura, Tsutomu; Suzue, Seigo; Uchida, Hiroaki; Shimoda, Hirotaka, Murayama, Satoshi; and Kinoshita, Susumu, 4,649,198, Cl. 544-281.000.
  - Irikura, Tsatomu; Okamura, Kyuya; Okubo, Hideo; Mizuguchi, Hidemichi; and Yamanaka, Shigeru, 4,650,871, Cl. 544-382.000.
  - Irikura, Tsutomu; Nishino, Keigo; and Nagatsu, Yoshio, 4,654,349, Cl. 514-300.000.
  - Irikura, Tsutomu; Nishino, Keigo; Okamura, Kyuya; and Ikeda, Toshiya, 4,680,398, Cl. 546-121.000.
- Kyoritsu Seiki Corporation: *See—*
  - Kojima, Sadao; Abe, Hitoshi; Ishizaki, Fumio; Otani, Atusi; and Shirotori, Hidefumi, 4,680,999, Cl. 82-36.00B.
- Kyotani, Ikuo; and Tomioka, Kentaro, to G-C Dental Industrial Corp. Dental contact gauge. 4,664,627, 5-12-87, Cl. 433-72.000.
- Kyotani, Ikuo, to G-C Dental Industrial Corp. Dental polishing strip. 4,690,642, 9-1-87, Cl. 433-142.000.
- Kyotani, Yasuhiro: *See—*
  - Kagawa, Hirohiko; Kyotani, Yasuhiro; and Toru, Munetomo, 4,716,184, Cl. 523-310.000.
- Kyoto Electronics Manufacturing Co., Ltd.: *See—*
  - Shimizu, Toshiyuki; and Furukawa, Yoshitomo, 4,664,756, Cl. 204-1.00T.
- Kyoto Measuring Instruments Corp.: *See—*
  - Okumura, Kazuyoshi, 4,658,134, Cl. 250-231.00R.
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- Kyoto, Michihisa: *See—*
  - Hoshikawa, Masao; Kyoto, Michihisa; Yano, Koji; and Tanaka, Gotaro, 4,693,738, Cl. 65-3.110.
- Kyoto University: *See—*
  - Yoshikawa, Kiyoshi; Toku, Hisayuki; Ueda, Makoto; and Tamagaki, Hiroshi, 4,703,222, Cl. 313-362.100.
- Kyowa Chemical Industry Co., Ltd.: *See—*
  - Miyata, Shigeo; Iizima, Noriko; and Manabe, Tadashi, 4,642,193, Cl. 210-682.000.
  - Miyata, Shigeo, 4,675,356, Cl. 524-424.000.
  - Miyata, Shigeo, 4,686,791, Cl. 47-29.000.
  - Miyata, Shigeo, 4,710,551, Cl. 526-91.000.
- Kyowa Engineering Co., Ltd.: *See—*
  - Fujikawa, Toshihiro, 4,676,271, Cl. 137-614.210.
- Kyowa Gishi Kogyo Kabushiki Kaisha: *See—*
  - Satoh, Kohji, 4,651,723, Cl. 128-80.00E.
- Kyowa Hakko Kogyo Co., Inc.: *See—*
  - Uwajima, Takayuki; Fujishiro, Kinya; and Takayama, Kenichiro, 4,666,842, Cl. 435-189.000.

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Hirata, Tadashi; Kobayashi, Shigeru; Takahashi, Keiichi, Morimoto, Makoto; and Arai, Yuko, 4,650,869, Cl. 544-343.000.
Hirata, Tadashi; Hashimoto, Yukio; Ogasa, Takehiro; Kobayashi Shigeru; Sato, Akira; Sato, Kiyoshi; and Takasawa, Seigo 4,663,450, Cl. 540-205.000.
Hirata, Tadashi; Mochida, Kenichi, Shiraki, Chihiro; and Sato, Kiyoshi, 4,694,001, Cl. 514-210.000.
Hirata, Tadashi; Matsukuma, Ikuo, Yoshiie, Shigeo; Sato, Kiyoshi; and Ohashi, Yoichi, 4,708,956, Cl. 514-210.000.
Inoue, Seijiro; and Ota, Shigenori, 4,645,672, Cl. 426-20.000.
Ishii, Shinzo; Katsumata, Shigeo; Arai, Yukou; Fujimoto, Kazuhisa; and Morimoto, Makoto, 4,649,199, Cl. 544-342.000.
Itoh, Seiga; Nishi, Tatsunari; Mizukami, Tamio; Matsumoto, Tadashi; Oka, Tetsuo, Taniguchi, Tadatsugu; and Sugano, Haruo, 4,686,191, Cl. 435-320.000.
Katsumata, Ryoichi; Oka, Tetsuo; and Furuya, Akira, 4,681,847, Cl. 435-172.300.
Katsumata, Ryoichi; Ozaki, Akio; Oka, Tetsuo, and Furuya, Akira, 4,683,205, Cl. 435-172.300.
Katsumata, Ryoichi; Ozaki, Akio; Oka, Tetsuo; and Furuya, Akira, 4,710,471, Cl. 435-253.000.
Kawauchi, Hiroshi; Yamaguchi, Kazuo; and Shirahata, Kunikatsu, 4,645,755, Cl. 514-12.000.
Mochida, Kenichi; Ogasa, Takehiro; Shimada, Junichi; Hirata, Tadashi; Sato, Kiyoshi; and Okachi, Ryo, 4,640,919, Cl. 514-241.000.
Muto, Kenji; Sugaya, Toru; Kuroda, Tokuyuki; Hashimoto, Tamotsu; Yamada, Koji; Nakamizo, Nobuhiro; and Watanabe, Minoru, 4,639,522, Cl. 546-194.000.
Nakanishi, Toru; and Machida, Yozo, 4,636,464, Cl. 435-14.000.
Sekine, Susumu; Mizukami, Tamio; Sato, Moriyuki; Itoh, Seiga, and Saito, Akiko, 4,689,402, Cl. 530-399.000.
Terada, Osamu; and Aisaka, Kazuo, 4,657,856, Cl. 435-28.000.
Teranishi, Masayuki; Suzuki, Koji; Kase, Hiroshi, Kitamura Shigeto; Shuto, Katsuichi; and Omori, Kenji, 4,657,916, Cl. 514-312.000.
Teranishi, Masayuki; Takahashi, Mitsuru; Nomoto, Hisayo; Kase, Hiroshi; Shuto, Katsuichi; Kubo, Kazuhiro; and Karasawa, Akira, 4,677,125, Cl. 514-7.000.
Tokuno, Sanji, 4,638,642, Cl. 62-498.000.
Tomohiro, Susumu, Arai, Yuko; and Mineura, Kazuyuki, 4,673,645, Cl. 435-119.000.
Uwajima, Takayuki, and Aisaka, Kazuo, 4,670,389, Cl. 435-172.300
Uwajima, Takayuki; and Ando, Mayumi, 4,677,062, Cl. 435-68.000
Uwajima, Takayuki; and Aisaka, Kazuo, 4,710,470, Cl. 435-200.000
Yamato, Masayuki; Kase, Hiroshi; Kawamoto, Isao; Kasai, Masaji Shirahata, Kunikatsu; Deguchi, Takashi; Shuto, Katsuichi, Karasawa, Akira; Okachi, Ryo; and Nakayama, Kiyoshi, 4,683,220, Cl. 514-7.000.
Yamauchi, Takayoshi; Hattori, Kaneaki, Ikeda, Shunichi; Nakao, Kenji; and Tamaki, Kentaro, 4,649,213, Cl. 560-56.000.
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Kyowa Hakko Kogyo Kabushiki Kaisha: *See—*
Kase, Hiroshi; Matsuda, Yuzuru; Kawamoto, Isao; Asano, Kozo; Shirahata, Kunikatsu, Yasuzawa, Tohru; and Yamada, Koji, 4,692,310, Cl. 424-122.000.
Shirahata, Kunikatsu; Kono, Motomichi; Saito, Yutaka; Kasai, Masaji; Morimoto, Makoto; and Ashizawa, Tadashi, 4,691,024, Cl. 548-422.000.
Takai, Haruki; Nomoto, Yuji; Hirata, Tadashi; Ohno, Tetsuji; and Kubo, Kazuhiro, 4,668,683, Cl. 514-259.000.
Kyowa Medex Co., Ltd.: *See—*
Aoyama, Norihito; Miike, Akira; Okano, Mikio; and Tatano, Toshio, 4,683,208, Cl. 436-12.000.
Kyozo, Tsukamoto: *See—*
Seijiro, Sasai; Tadanobu, Fujimoto; and Kyozo, Tsukamoto, 4,654,304, Cl. 435-240.000.
Kypke, Dean A.; Hawley, Philip R., Britton, Thomas N., II; and White, George J., to Conoco Inc. Offshore platform leg-mating apparatus and a method of assembly. 4,662,788, 5-5-87, Cl. 405-204.000.
Kypreos-Pantazis, Georg. Internal combustion engine having rotating pistons. 4,683,852, 8-4-87, Cl. 123-230.000.
Kyriakis, John. Non-contact temperature measurement of a static or moving target. 4,693,615, 9-15-87, Cl. 374-129.000.
Kysiak, William J., to Switchcraft, Inc. Jack module and jackfield 4,655,535, 4-7-87, Cl. 339-182.00R.
Kysiak, William J., to Switchcraft, Inc. Jack module and jackfield. 4,695,117, 9-22-87, Cl. 439-188.000.
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Elmer, Arthur E. H., 4,682,679, Cl. 192-58.00C.
Kytonen, Pauli, to Oy Wartsila AB. Web winding method and apparatus. 4,635,867, 1-13-87, Cl. 242-56.00R.
Kyuma, Kenji; and Hieda, Teruo, to Canon Kabushiki Kaisha. Low-noise apparatus for image pickup and combination of light and electric signals. 4,712,138, 12-8-87, Cl. 358-213.310.
Kyurkchiev, Bencho P.: *See—*
Petkov, Georgi K.; Kyurkchiev, Bencho P.; Barzakov, Valentin Y.; and Minchev, Stefan P., 4,660,326, Cl. 51-7.000.
Kyushima, Hiroki: *See—*
Saito, Masashi; Shimamura, Tsutau; Henmi, Kojiro; and Kyushima, Hiroki, 4,671,645, Cl. 355-3.00R.
Takagi, Tsuneo; Tanabe, Kenjiro; Fukushima, Masao; Kyushima, Hiroki; Takenaka, Kiyoshi; Okada, Akira; and Isogaki, Yoshinor, 4,641,951, Cl. 355-7.000.
Kyushima, Tatsuo: *See—*
Kubo, Seitoku; Kuramochi, Koujiro; and Kyushima, Tatsuo, 4,676,123, Cl. 74-695.000.
Kyushu Hitachi Maxell, Ltd.: *See—*
Sayama, Shigeharu, 4,714,200, Cl. 239-579.000.
Kyushu Refractories Co., Ltd.: *See—*
Watanabe, Akira; Takeuchi, Yoshimitsu; Kihara, Seiji; Mitsudoh, Makoto; and Wakabayashi, Yoh'ichi, 4,681,633, Cl. 106-35.000.
Kywata, Kazuyoshi: *See—*
Ohtani, Teruo; Tamura, Toshihisa; Ikeda, Yuji; Araikawa, Mutsuya; and Kywata, Kazuyoshi, 4,696,635, Cl. 425-330.000.
Kyytsonen, Markku, to Oy Wartsila AB. Method and apparatus for conducting the end of a web. 4,637,566, 1-20-87, Cl. 242-56.00R.
Kyytsonen, Markku, to Oy Wartsila AB. Apparatus for joining the ends of webs. 4,668,328, 5-26-87, Cl. 156-502.000.
Kyzer, George; and Smollon, James. Bypass and monitoring circuit for refrigeration system. 4,665,710, 5-19-87, Cl. 62-155.000.
L.A. Brush Manufacturing Corp.: *See—*
Boland, Anthony C.; and Maxwell, George R., 4,668,019, Cl. 300-3.000.
L. A. Weaver Co., Inc.: *See—*
Weaver, Richard A., 4,644,985, Cl. 144-145.00R.
L B & M Associates, Inc.: *See—*
Doerfel, Stephen; Pokorny, Anthony G.; and Rubin, Howard H., 4,682,953, Cl. 434-16.000.
L. B. White Company, Inc.: *See—*
Quinlisk, Warren W.; and Fernholz, James A., 4,65 ,574, Cl. 165-54.000.
L-Bar Products Incorporated: *See—*
Roman, Ronald J., 4,692,259, Cl. 252-70.000.
L.C.C.-C.I.C.E.-Compagnie Europeenne de Composants Electroniques: *See—*
Bernard, Daniel, 4,637,106, Cl. 29-25.420.
L. & C. Steinmuller GmbH: *See—*
Becker, Jorgen, 4,643,747, Cl. 55-269.000.
Grethe, Klaus, 4,639,209, Cl. 431-4.000.
Grethe, Klaus; Hulsen, Ralf; and Thielen, Walter, 4,644,879, Cl. 110-343.000.
Grethe, Klaus; and Steven, Hubert, 4,682,991, Cl. 55-84.000.
Grethe, Klaus; Eickhoff, Heinrich; Goller, Elmar; and Hulsen, Ralf, 4,698,014, Cl. 431-9.000.
Keintzel, Gunter; and Czimczik, Arno, 4,674,567, Cl. 165-162.000.
Keintzel, Gunter; and Westebbe, Klaus, 4,683,842, Cl. 122-483.000.
Keintzel, Gunter; and Westebbe, Klaus, 4,708,093, Cl. 122-483.000.
Leikert, Klaus, 4,642,225, Cl. 423-244.000.
Martin, Helmut; and Schreier, Wolfgang, 4,669,399, Cl. 110-347.000.
Michalak, Stanislaw; Weber, Klaus-Dieter; and Meier, Jurgen, 4,681,746, Cl. 423-239.000.
Pollak, Gerd, 4,694,893, Cl. 165-104.340.
Premel, Ulrich; Dorling, Rolf; and Schultze, Manfred, 4,694,782, Cl. 122-7.00R.
Thones, Gustav, 4,694,897, Cl. 165-160.000.
L & F Industries: *See—*
Kan, Kwok-Ning S., 4,706,486, Cl. 72-302.000.
L G Innovations AB: *See—*
Germandson, Lars, 4,697,063, Cl. 219-213.000.
L. G. Medical S.A.: *See—*
Metals, Joel, 4,688,553, Cl. 128-1.00R.
L. H. Brown, Inc.: *See—*
Brown, Lawrence H., 4,696,482, Cl. 279-1.0SJ.
L Investments, Ltd.: *See—*
Scott, Paul C., 4,648,301, Cl. 83-464.000.
L. M. Becker & Co., Inc.: *See—*
Glaser, Robert L., 4,679,684, Cl. 194-350.000.
L. R. Nelson Corporation: *See—*
Bruninga, Kenneth J., 4,708,264, Cl. 222-20.000.
Ransburg, David P.; Fletcher, Douglas C.; and Wahlstrom, Sven E., 4,646,224, Cl. 364-143.000.
L. Schuler GmbH: *See—*
Braitinger, Helmut; and Grupp, Gunther, 4,648,003, Cl. 361-31.000.
Braitinger, Helmut; and Feinauer, Otto, 4,651,273, Cl. 364-188.000.
Braun, Hermann; Dumschat, Helmut; Strommer, Kurt; and Mueller, Sieghard, 4,641,515, Cl. 72-405.000.
Dumschat, Helmut, 4,635,463, Cl. 72-427.000.
Hoehn, Herbert; and Strommer, Kurt, 4,713,961, Cl. 72-419.000.
Mueller, Sieghard; Braun, Hermann; Dumschat, Helmut; and Trautwein, Hans-Juergen, 4,680,954, Cl. 72-405.000.
Roos, Gerhard; Dexling, Hartmut; and Michael, Wolfgang, 4,712,412, Cl. 72-345.000.
Schneider, Franz; Braitinger, Helmut; and Feinauer, Otto, 4,682,280, Cl. 364-191.000.
L-TEC Company: *See—*
Carkhuff, Donald W., 4,716,269, Cl. 219-121.0PQ.
L. W. Fleckenstein, Inc.: *See—*
Hartman, Neil W., 4,644,746, Cl. 60-269.000.
La Batteria di M. Tadiello S.r.l.: *See—*
Tadiello, Mario, 4,696,874, Cl. 429-64.000.
La Bellignite: *See—*
Imbert, Jean-Paul, 4,702,455, Cl. 249-79.000.
La Calhene, Societe Anonyme: *See—*
Frioux, Christian; Glachet, Charles, Francois, Daniel; and Tentelier, Jean, 4,650,388, Cl. 414-1.000.
Guinot, Jean-Claude; Lallemand, Jean-Paul; Murguet, Denis; Zeghloul, Said; and Bidaud, Philippe, 4,653,793, Cl. 294-86.400.

La Cellulose du Pin: *See*—
  Armagnacq, Sylviane; and Bol, Michel, 4,689,045, Cl. 604-375.000.
  Faurie, Andre; and Pedone, Jean-Marie, 4,665,600, Cl. 29-33.00K.
La Compania Espanola De La Penicilina Y Antibioticos, S.A.: *See*—
  Prieto, Agustin P.; Higom, Arturo T.; and Mata, Maria d. P. C., 4,675,315, Cl. 514-76.000.
La Corporation de l'Ecole Polytechnique: *See*—
  Dubreuil, Alain; and Pelton, Arthur D., 4,645,571, Cl. 204-1.00T.
  Safi, Bechara F.; Rouleau, Denis; and Mayer, Raymond, 4,654,308, Cl. 435-310.000.
La Crosse Rubber Mills, Inc.: *See*—
  Barma, Tarachand S., 4,703,533, Cl. 12-142.00E.
La Detection Electronique Francaise-Protecbat: *See*—
  Duval, Claude, 4,663,499, Cl. 178-2.00R.
La Jolla Cancer Research Foundation: *See*—
  Ruoslahti, Erkki I.; and Pierschbacher, Michael D., 4,661,111, Cl. 623-11.000.
LA MOLE Industries, S.A.: *See*—
  Esteve, Gerard; and Amalric, Jean, 4,670,016, Cl. 8-94.160.
La Radiotechnique: *See*—
  Arragon, Jean-Pierre; Cantou, Christian; and Marie, Gerard J. M., 4,649,419, Cl. 380-20.000.
  Taurin, Michel; Pernot, Jean-Michel; and Marie, Gerard J. M., 4,659,875, Cl. 380-19.000.
La Telemecanique Electrique: *See*—
  Baurand, Gilles; Fouret, Rene; and Rundsztuk, Marek, 4,709,205, Cl. 324-127.000.
  Belbel, Elie; Baron, Thierry; Blanchard, Christian; Haury, Andre; and Lauraire, Michel, 4,635,622, Cl. 337-158.000.
  Belbel, Elie; Caudron, Robert; Fechant, Louis; Haury, Andre; Lauraire, Michel; Muniesa, Jacques; and Siffroi, Lucien, 4,638,275, Cl. 335-151.000.
  Belbel, Elie; Lauraire, Michel; Moreau, Luc; Lemarquand, Pierre; Paggi, Serge; and Comtois, Patrick, 4,647,741, Cl. 200-151.000.
  Belbel, Elie; Blanchard, Christian; Cohen, Jacques; Haury, Andre; Lauraire, Michel; and Moreau, Luc, 4,650,937, Cl. 200-77.000.
  Belbel, Elie; Blanchard, Christian; Haury, Andre; and Lauraire, Michel, 4,659,887, Cl. 200-151.000.
  Belbel, Elie; Blanchard, Christian; Haury, Andre; and Lauraire, Michel, 4,659,888, Cl. 200-151.000.
  Belbel, Elie; Blanchard, Christian; Haury, Andre ; and Lauraire, Michel, 4,677,266, Cl. 200-151.000.
  Belbel, Elie; Bataille, Christian; Blanchard, Christian; Haury, Andre ; and Lauraire, Michel, 4,682,132, Cl. 335-14.000.
  Belbel, Elie; Blanchard, Christian; Haury, Andre ; and Lauraire, Michel, 4,700,030, Cl. 200-151.000.
  Belbel, Elie; Bataille, Christian; Blanchard, Christian; Haury, Andre ; and Lauraire, Michel, 4,700,160, Cl. 335-14.000.
  Bouteille, Daniel; Nicolas, Michel; and Guillin, Daniel, 4,690,035, Cl. 91-442.000.
  Bouteille, Daniel; Nicolas, Michel; and Prudhomme, Pierre, 4,702,276, Cl. 137-580.000.
  Brisson, Alain; and Clement, Jean-Rene, 4,638,279, Cl. 335-257.000.
  Brisson, Alain; and Clement, Jean-Rene, 4,700,165, Cl. 335-255.000.
  Comtois, Patrick; Ingrain, Raymond; Moreau, Luc; and Paggi, Serge, 4,668,926, Cl. 335-21.000.
  Eschermann, Guy; and Lemarquand, Pierre, 4,689,714, Cl. 361-167.000.
  Eschermann, Guy; and Lemarquand, Pierre, 4,701,067, Cl. 403-326.000.
  Fauvet, Jean-Pierre; and Parisel, Jacques, 4,638,419, Cl. 363-87.000.
  Fauvet, Jean-Pierre; and Parisel, Jacques, 4,670,831, Cl. 363-87.000.
  Fauvet, Jean-Pierre; and Parisel, Jacques, 4,683,545, Cl. 364-565.000.
  Gaude, Maurice, 4,639,616, Cl. 307-270.000.
  Guery, Jean-Pierre; and Olifant, Jacques, 4,635,016, Cl. 335-230.000.
  Guery, Jean-Pierre; Gashet, Gerald; Olifant, Jacques; and Plumeret, Raymond, 4,644,308, Cl. 335-128.000.
  Guery, Jean-Pierre; and Olifant, Jacques, 4,644,311, Cl. 335-230.000.
  Jego, Gerard; Thierry, Jean-Pierre; and Verdenne, Serge, 4,668,035, Cl. 339-22.00B.
  Joly, Jean; Oehlert, Yves; Neyroud, Jean; Penot, Oliver; Pergent, Jacky; Barulier, Gilbert; and LeBlanc, Bernard, 4,692,842, Cl. 361-413.000.
  Koehler, Gerard, 4,692,729, Cl. 335-259.000.
  Lalloz, Paul; and Vo, Hung A., 4,641,270, Cl. 364-476.000.
  Landron, Jacques; and Pichard, Christian, 4,677,406, Cl. 335-35.000.
  Lemarquand, Pierre; and Pierrot, Henri, 4,635,013, Cl. 335-20.000.
  Neyroud, Jean; Guillier, Alain; and Mahi, Abdelkader, 4,648,008, Cl. 361-387.000.
  Nourry, Daniel, 4,677,261, Cl. 200-43.150.
  Petit, Pierre; and Periot, Jean-Marie, 4,639,668, Cl. 324-208.000.
  Rochard, Michel; and Lafaye, Michel, 4,695,684, Cl. 200-43.070.
  Ruaud, Xavier, 4,697,052, Cl. 200-43.070.
La Telephonie Industrielle et Commerciale Telic Alcatel: *See*—
  Playe, Patrice, 4,689,643, Cl. 346-155.000.
Laabs, Timothy P.: *See*—
  Wolniak, Stanley C.; Laabs, Timothy P.; and Schulz, Richard H., Jr., 4,633,689, Cl. 70-379.00R.
  Wolniak, Stanley C.; and Laabs, Timothy P., 4,689,977, Cl. 70-379.00R.
Laakmann Electro-Optics, Inc.: *See*—
  Laakmann, Katherine D., 4,652,083, Cl. 350-96.320.
  Laakmann, Katherine D., 4,688,892, Cl. 350-96.320.
  Laakmann, Katherine D., 4,688,893, Cl. 350-96.320.
Laakmann, Katherine D., to Laakmann Electro-Optics, Inc. Hollow waveguide. 4,652,083, 3-24-87, Cl. 350-96.320.
Laakmann, Katherine D., to Laakmann Electro-Optics, Inc. Hollow waveguides having disparate dielectric overcoatings. 4,688,8 8-25-87, Cl. 350-96.320.
Laakmann, Katherine D., to Laakmann Electro-Optics, Inc. Hollow waveguide having plural layer dielectric. 4,688,893, 8-25-87, Cl. 350-96.320.
Laakmann, Peter. Television rate optical scanner. 4,714,960, 12-22-8 Cl. 358-206.000.
Laakso, Carl W.; Reagan, John J.; and Beckman, Robert L., to Tektronix, Inc. Polyimide embedded conductor process. 4,650,5 3-17-87, Cl. 156-655.000.
Laakso, Carl W.: *See*—
  Grellmann, H. Erwin; Jones, Keith F.; Laakso, Carl W.; and Wright, John A., 4,657,322, Cl. 339-17.00M.
Laakso, Oliver A. Digester having plural screens and means for controlling the liquid withdrawal. 4,693,785, 9-15-87, Cl. 162-242.000.
Laamanen, Kai J.: *See*—
  Sipila, Heikki J.; and Laamanen, Kai J., 4,653,081, Cl. 378-45.00
Laan, Dirk, to Stichting IWL. Method for the manufacture of insulating porous shaped building articles. 4,698,366, 10-6-87, Cl. 521-55.000.
Laapotti, Jorma, to Valmet Oy. Press section of a paper machine. 4,673,462, 6-16-87, Cl. 162-301.000.
Laar, Erwin: *See*—
  Viehrig, Wolfgang; Wagner, Karl-Heinz; and Laar, Erwin, 4,638,936, Cl. 226-191.000.
Laauwe, Robert H.: *See*—
  O'Halloran, P. Joseph; Laauwe, Robert H.; Roggenburg, Stanley L., Jr.; and Tully, Michael E., 4,634,022, Cl. 222-95.000.
Lab Products, Inc.: *See*—
  Sedlacek, Robert S.; and Campbell, Neil, 4,640,228, Cl. 119-15.00
Laba, Dennis, to NL Industries, Inc. Compressed powder formulation containing organophilic clay and a process for making the formulation. 4,659,571, 4-21-87, Cl. 424-65.000.
LabAdapt, Inc.: *See*—
  Batjer, John D.; Eades, Lindsay R.; Liedtke, Raymond J.; and Zebelman, Arthur M., 4,641,674, Cl. 134-138.000.
Labadie, Jeffrey W.: *See*—
  Hiraoka, Hiroyuki; Labadie, Jeffrey W.; Lee, James H.; MacDonald, Scott A.; and Willson, Carlton G., 4,690,838, Cl. 427-343.00
LaBanco, Leonard C.: *See*—
  Allured, David; and LaBanco, Leonard C., 4,653,376, Cl. 84-1.00
LaBarge, Pierre L., Jr.: *See*—
  Mahoney, Robert L., 4,685,831, Cl. 405-156.000.
LaBarge, Robert L.; and Heffner, Robert E., to Aluminum Company of America. Easy opening container end closure. 4,648,528, 3-10-87, Cl. 220-240.000.
LaBarge, Robert L.; and Maier, Frank E., to Aluminum Company of America. Integral rivet. 4,678,096, 7-7-87, Cl. 220-273.000.
LaBarge, Robert L.; and Heffner, Robert E., to Aluminum Company of America. Method for making an easy opening container end closure. 4,685,849, 8-11-87, Cl. 413-22.000.
La Barge, Robert L.; and Ewing, Ronald J., to Aluminum Company of America. Method of making hollow integral rivet in components. 4,688,316, 8-25-87, Cl. 29-432.000.
Labarile, Paul, to Campbell Design Group. Apparatus for stabilizing a load cell. 4,658,923, 4-21-87, Cl. 177-255.000.
Labas, Nicholas: *See*—
  Schraff, Raymond J.; Miller, Thomas M.; and Labas, Nicholas, 4,640,202, Cl. 110-336.000.
LaBate, Joseph, to Pitney Bowes Inc. Beveled spur gear. 4,653,3 3-31-87, Cl. 74-462.000.
Labate, Michael D.; and Perri, Joseph A., to Insul Company, Inc. Device for introducing gas into molten metal in a wide annular stream. 4,687,184, 8-18-87, Cl. 266-270.000.
LaBate, Michael D., II. Device for placing slag retention means in tapping converter. 4,634,106, 1-6-87, Cl. 266-236.000.
La Bate, Michael D., II; and Perri, Joseph A., to Insul Company, Inc. Elevated swinging device for placing slag retention devices in tapping converters. 4,637,592, 1-20-87, Cl. 266-272.000.
LaBate, Micheal D.; and Perri, Joseph, to Insul Company, Inc. Horizontally and vertically movable elevated apparatus for placing slag retaining means in tapping converters. 4,640,498, 2-3-87, Cl. 266-272.000.
Labate, Micheal D. Protective sleeve for the shroud of a hot metal ladle. 4,709,748, 12-1-87, Cl. 164-488.000.
LaBate, Micheal D. Slag retaining device for use in converters, ladles or the like. 4,709,903, 12-1-87, Cl. 266-227.000.
Labaune, Jean-Pierre; and Essin, Pierre B., to Albert Rolland, S.A. Novel aroylpyrroles, their production and their use in immunologic therapy. 4,709,051, 11-24-87, Cl. 548-533.000.
Labavia S.G.E.: *See*—
  Courtois, Jean-Claude, 4,712,656, Cl. 188-218.0XL.
  Marandet, Andre J. P.; and Dancygier, Gerard R. W., 4,668,886, Cl. 310-93.000.
Labaw, Clifford S.; and Tremper, Alan W., to SmithKline Beckman Corporation. Chemical processes for 2-(2-halo-3,4-dimethoxybenzyl)-5-(4-methoxyphenyl)oxazolidines. 4,705,862, 11-10-87, Cl. 548-215.000.
Labb, Georges, to Thomson-CSF. Method and device for level correction for a television image. 4,635,117, 1-6-87, Cl. 358-160.000.
Labbe, Francis A. M., to Molins PLC. Conveying and uniting rod-like articles of the tobacco industry. 4,643,203, 2-17-87, Cl. 131-94.000.

- Labbe, Francis A. M.: *See*—
  - Arthur, Hugh M.; and Labbe, Francis A. M., 4,646,675, Cl. 118-63.000.
  - Hinchcliffe, Dennis; Labbe, Francis A. M.; Molins, Desmond W.; and Orpin, Edward J., 4,667,687, Cl. 131-94.000.
- Labbe, Paul; and Morin, Andre. Doppler tracking processor and time of closest approach detector. 4,672,381, 6-9-87, Cl. 342-99.000.
- Labconco Corporation: *See*—
  - Hambleton, Larry G.; Sears, Claude L.; and Offutt, Elmer B., 4,708,153, Cl. 134-170.000.
- Labeda, David P.: *See*—
  - Kirby, Jane P.; Borders, Donald B.; Lee, May D.; Maiese, William M.; Testa, Raymond T.; and Labeda, David P., 4,699,790, Cl. 424-117.000.
- Labedan, Jean-Denis; and Stephan, Gerard, to Nadella. Needle bearing and in particular a needle sleeve having a reinforced seal. 4,655,618, 4-7-87, Cl. 384-486.000.
- Labedan, Jean-Denis; and Merle, Michel, to Nadella. Locally prestressed rolling bearing for mounting on a shaft in a lateral direction. 4,708,498, 11-24-87, Cl. 384-560.000.
- Labedz, Gerald P.; Bonta, Jeffrey D.; Schaeffer, Dennis R.; Tell, Daniel F.; and Lev, Valy, to Motorola, Inc. Cellular voice and data radiotelephone system. 4,654,867, 3-31-87, Cl. 379-59.000.
- Label-Aire Inc.: *See*—
  - Kucheck, Leo, 4,685,982, Cl. 156-64.000.
- Labelette Company: *See*—
  - Wesley, James G., 4,693,774, Cl. 156-215.000.
  - Wesley, John G., 4,636,278, Cl. 156-446.000.
- Labeling Systems, Inc.: *See*—
  - Cleary, Robert A., Jr.; and Zaccheo, Theodore N., 4,676,859, Cl. 156-361.000.
- LaBelle, Gary E.; and Ask, David T., to Minnesota Mining and Manufacturing Company. Resistively heated photothermographic media on vesicular substrate. 4,639,412, 1-27-87, Cl. 430-523.000.
- Labelle, Gaston: *See*—
  - Desrosiers, Wilfrid; and Labelle, Gaston, 4,638,590, Cl. 43-88.000.
- Labelle, H. M. Robert, to Martinray Industries Ltd. Barrel rings. 4,633,927, 1-6-87, Cl. 160-133.000.
- Labelle, H. M. Robert, to Martinray Industries Ltd. Rolling firedoor. 4,664,170, 5-12-87, Cl. 160-133.000.
- LaBelle, John T.; Pringle, David A.; and McKenna, Daniel, to Optech Inc. Controlled color light source. 4,692,607, 9-8-87, Cl. 250-205.000.
- Labelon Corporation: *See*—
  - Marginean, Barry L.; and Hookway, Warren A., Jr., 4,675,705, Cl. 503-209.000.
- Labeltape Meditect Inc.: *See*—
  - Snedeker, Marvin L., 4,664,106, Cl. 128-156.000.
- Labes, Mortimer M.; and Chen, Jiann H., to Temple University. Cyanogen polymers and pyropolymers and fibers thereof. 4,649,038, 3-10-87, Cl. 423-364.000.
- Labes, Mortimer M.; and Bostwick, Beverly D., to Temple University. Electro- and magneto-optic devices. 4,657,349, 4-14-87, Cl. 350-362.000.
- Labhart, Martin: *See*—
  - Guttinger, Hannes; and Labiart, Martin, 4,647,786, Cl. 250-574.000.
- Labindustries, Inc.: *See*—
  - MacDermott, Bruce R., 4,672,857, Cl. 73-864.180.
- Labinger, Richard L.; Tinnerino, Natale F.; and Bryant, Timothy E., to Perkin-Elmer Corporation, The. Coarse flaw detector for printed circuit board inspection. 4,707,734, 11-17-87, Cl. 358-106.000.
- Labler, Ludwig: *See*—
  - Furst, Andor; Labler, Ludwig; and Meier, Werner, 4,691,032, Cl. 549-450.000.
- Laboe, Lauren M.: *See*—
  - Green, George D.; Laboe, Lauren M.; and Cook, Richard, 4,641,207, Cl. 360-55.000.
- Labofina, S.A.: *See*—
  - Bertrand, Jean-Noel M., 4,699,943, Cl. 324-380.000.
  - Davison, John R. N., 4,657,858, Cl. 435-68.000.
  - De Boodt, Marcel F. L. P.; De Strooper, Eric B. A.; and Van Meirvenne, Marc R., 4,697,961, Cl. 405-264.000.
  - Remacle, Roger E. M.; and Verbeeck, Alain A. J., 4,711,728, Cl. 210-772.000.
- Labombarde, Raymond A. Apparatus and method for reverse roll feed of shingled blanks. 4,666,141, 5-19-87, Cl. 271-35.000.
- Labombarde, Raymond A.; and Tremblay, Robert A., to International Paper Box Machine Co. Apparatus for packaging box flats. 4,707,970, 11-24-87, Cl. 53-529.000.
- Labor Muszeripari Muvek: *See*—
  - Szekely, Tibor; Tyihak, Erno; Mincsovics, Emil; Remenyi nee Korodi, Zsuzsa; Peterfi, Laszlo; Kemeny, Gabor; and Takacs, Gabor, 4,671,871, Cl. 210-198.300.
  - Tyihak, Erno; Mincsovics, Emil; Zoltan, Sandor; Kemeny, Gabor; Mathuny, Aniko; Szekely, Tibor; Nemeth, Sandor; Antal, Zsuzsanna; and Fater, Zsuzsanna, 4,658,000, Cl. 526-217.000.
- Laboratoire Central des Ponts et Chaussees: *See*—
  - Belluteau, Jean-Pierre; Bocard, Christian; Such, Christian; and Vaillant, Daniel, 4,678,558, Cl. 208-390.000.
  - Perrier, Hubert; and Faucon, Didier, 4,674,917, Cl. 405-223.000.
  - Siffert, Marcel; Briant, Gervais; Feunten, Pierre; Goacolou, Honore; Petitgrand, Jean-Claude; and Peyret, Francois, 4,712,423, Cl. 73-146.000.
- Laboratoire L. Lafon: *See*—
  - Lafon, Louis, 4,663,328, Cl. 514-277.000.
  - Lafon, Louis, 4,680,302, Cl. 514-327.000.
  - Lafon, Louis, 4,690,950, Cl. 514-626.000.
  - Lafon, Louis, 4,705,795, Cl. 514-317.000.
- Laboratoires Biocodex: *See*—
  - Gayral, Philippe G.; and Hublot, Bernard M., 4,643,897, Cl. 424-93.000.
- Laboratoires Biotrol: *See*—
  - De Backer, Emile, 4,650,474, Cl. 604-180.000.
- Laboratoires Boiron: *See*—
  - Abecassis, Jacky R.; Baum, Bernard; Favier, Andre-Marcel; and Levert, Patrice C., 4,703,717, Cl. 118-698.000.
- Laboratoires Chauvin-Blache: *See*—
  - Coquelet, Claude; Battais, Elisabeth; Bonne, Claude; and Sincholle, Daniel, 4,665,085, Cl. 514-398.000.
- Laboratoires Jacques Logeais: *See*—
  - Maillard, Jacques G.; Van, Tri V.; Legeai, Jacky M.; and Benharkate, Marguerite M., 4,699,918, Cl. 514-426.000.
- Laboratoires Pharmascience: *See*—
  - Taravel, Berrard, 4,633,542, Cl. 15-167.00R.
- Laboratorie Central des Ponts et Chaussees: *See*—
  - Delmas, Philippe; Puig, Jose; and Schaeffner, Marc, 4,662,794, Cl. 405-258.000.
- Laboratorien Hausmann AG: *See*—
  - Geisser, Peter; Kaiser, Hans P.; and Berger, Franz, 4,715,851, Cl. 604-82.000.
- Laboratorio Farmaceutico Lafarma S.a.S.: *See*—
  - Melillo, Gaetano, 4,681,752, Cl. 424-453.000.
- Laboratorio Fides, S.A.: *See*—
  - Llobet, Pere P.; and Baylina, Elisa G., 4,689,346, Cl. 514-555.000.
- Laboratorios Leo S.A.: *See*—
  - Jensen, Willy H., 4,663,087, Cl. 530-305.000.
- Laboratorios Madaus Cerafarm, S.A.: *See*—
  - Arechaga, Sabastian J.; Granell, Jose O. O.; Linan, Carmen S.; Vallejo, Alfonso P.; and Gabarro, Jose A. P., 4,690,945, Cl. 514-448.000.
- Laboratorium Prof. Dr. Rudolf Berthold: *See*—
  - Berthold, Fritz; and Pfleger, Manfred, 4,704,531, Cl. 250-328.000.
  - Kappler, Gerhard W., 4,676,926, Cl. 252-307.000.
- Laborde, Alice L.: *See*—
  - Dolak, Lester A.; Laborde, Alice L.; Sebek, Oldrich K.; Castle, Thomas M.; and Brodasky, Thomas F., 4,689,300, Cl. 435-253.000.
- Laborde, Michel: *See*—
  - Le Page, Jean-Francois; Billon, Alain; Morel, Frederic; Renard, Pierre; Biedermann, Jean-Michel; Laborde, Michel; and Bousquet, Jacques, 4,715,946, Cl. 208-45.000.
- Labouliere, Elzear R.: *See*—
  - de Vos, Hendrik A. J.; and Labouliere, Elzear R., 4,638,414, Cl. 362-370.000.
  - de Vos, Hendrik A. J.; and Labouliere, Elzear R., 4,642,742, Cl. 362-375.000.
- LaBounty, Roy E. Auto body crushing device. 4,697,509, 10-6-87, Cl. 100-233.000.
- LaBounty, Roy E. Grapple for orienting track rails. 4,703,968, 11-3-87, Cl. 294-88.000.
- Labrador, Jacques: *See*—
  - Godard, Jean-Henri; Ometz, Pierre; and Labrador, Jacques, 4,647,162, Cl. 350-574.000.
- Labrie, Fernand. Method of treatment of prostate cancer. 4,659,695, 4-21-87, Cl. 514-15.000.
- Labrie, Fernand. Combination therapy for treatment of female breast cancer. 4,666,885, 5-19-87, Cl. 514-15.000.
- LaBrie, James J.: *See*—
  - Shimkunas, Alexander R.; and LaBrie, James J., 4,708,919, Cl. 430-5.000.
- Labrijn, Hans: *See*—
  - Bergsma, Wijtse; Labrijn, Hans; and Sterk, Olivier, 4,698,908, Cl. 30-43.600.
- LaBrosse, Paul R.; and Pohl, Daniel P., to Minnesota Mining & Manufacturing Company. Prefabricated bow form for a pom bow. 4,684,552, 8-4-87, Cl. 428-4.000.
- Labrum, Joseph H.; and Wilcox, Allen D., to Sperry Corporation. Acousto-optical spectrum analyzer with expanded frequency resolution. 4,636,718, 1-13-87, Cl. 324-77.00K.
- Labrum, Joseph H.; and Wilcox, Allen D., to Sperry Corporation. Photo diode-array dynamic range for optical signal systems. 4,648,135, 3-3-87, Cl. 455-619.000.
- Labrum, Joseph H., to Sperry Corporation. Acousto-optic R-F receiver which is tunable and has adjustable bandwidth. 4,696,061, 9-22-87, Cl. 455-609.000.
- Labrum, Joseph H., to Sperry Corporation. Broadband optical processor for determination of frequency and time of arrival of multiple signals. 4,712,059, 12-8-87, Cl. 324-77.00K.
- Labrum, Joseph H.: *See*—
  - Nielsen, Max E.; Labrum, Joseph H.; and Grant, Patrick S., 4,679,215, Cl. 377-95.000.
- Labsystems Oy: *See*—
  - Ekholm, Pertti; Harjunmaa, Hannu; Kaakanen, Esko; and Suovaniemi, Osmo, 4,652,127, Cl. 356-246.000.
  - Ekholm, Pertti, 4,659,222, Cl. 356-244.000.
  - Falck, Kai, 4,675,288, Cl. 435-34.000.
  - Harjunmaa, Hannu, 4,652,136, Cl. 356-408.000.
  - Harjunmaa, Hannu, 4,661,711, Cl. 250-458.100.
  - Harjunmaa, Hannu, 4,678,326, Cl. 356-73.000.
  - Kukka, Aarre; Tervamaki, Jukka; Nikulin, Heikki; and Vuorinen, Olavi, 4,684,250, Cl. 356-246.000.
  - Sandholm, Markus, 4,659,656, Cl. 435-7.000.

- Savonlahti, Jukka; Ekholm, Pertti; and Harjunmaa, Hannu, 4,696,195, Cl. 73-864.840.
- Tervamaki, Jukka; and Jarvimaki, Kari, 4,690,005, Cl. 73-864.120.

Labthermics Technologies, Inc.: *See—*
- Badger, Christopher W.; Burdette, Everette C.; Leech, Steven C.; and McCarthy, John F., 4,638,436, Cl. 364-414.000.

Labuc, Vladimir M.: *See—*
- Kitzinger, Frank; and Labuc, Vladimir M., 4,708,495, Cl. 374-154.000.

LaBudde, Brian R.; and Koek, Kevin C., to Eastman Kodak Company. Keyboard cabinet with sliding tray. 4,709,972, 12-1-87, Cl. 312-208.000.

LaBudde, Edward V. Fiber optic switching system and method. 4,696,062, 9-22-87, Cl. 455-612.000.

LaBudde, Edward V.: *See—*
- Hsieh, Der C.; and LaBudde, Edward V., 4,669,074, Cl. 369-45.000.
- Hsieh, Der C.; and LaBudde, Edward V., 4,674,076, Cl. 369-32.000.

Labuhn, Pamela I.: *See—*
- Ament, Frank; Peden, Richard A.; and Labuhn, Pamela I., 4,653,315, Cl. 73-117.300.

Laby, Jordan M.: *See—*
- Henkin, Melvyn L.; and Laby, Jordan M., 4,679,258, Cl. 4-542.000.
- Henkin, Melvyn L.; and Laby, Jordan M., 4,689,839, Cl. 4-542.000.
- Henkin, Melvyn L.; and Laby, Jordan M., 4,692,950, Cl. 4-542.000.
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Laby, Ralph H., to Commonwealth Scientific and Industrial Research Organization. Controlled release compositions for administration of therapeutic agents to ruminants. 4,671,789, 6-9-87, Cl. 604-59.000.

Laby, Ralph H.; and Lance, Mark A., to Commonwealth Scientific and Industrial Research Organization. Controlled release capsule. 4,687,480, 8-18-87, Cl. 604-891.000.

Lacal-Ruiz, Pedro: *See—*
- Martinez-Corral, Cecilio; and Lacal-Ruiz, Pedro, 4,667,794, Cl. 192-70.120.

Lacana, Richard J.: *See—*
- Huddleston, Elwyn; and Lacana, Richard J., 4,687,794, Cl. 523-351.000.

Lacani AB: *See—*
- Tengqvist, Lennart, 4,670,310, Cl. 427-388.400.

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- Curry, Donald P.; and LaCasse, David R., 4,663,863, Cl. 34-54.000.

LaCasse, Robert G.: *See—*
- Creasy, Walter S.; Lorenz, Donald H.; LaCasse, Robert G.; and Malagreca, Salvatore A., 4,642,267, Cl. 428-413.000.

Laccetti, Anthony J.: *See—*
- Gregor, Harry P.; Dalven, Paul I.; Hildebrandt, James R.; Hodgins, Leonard T.; Laccetti, Anthony J.; and Shamir, Abraham, 4,705,753, Cl. 435-180.000.

Lace, Melvin A.: *See—*
- Bellet, Richard J.; Broyer, Ephraim; Bekker, Alex Y.; and Lace, Melvin A., 4,708,839, Cl. 264-85.000.

Lacefield, William B.; and Simon, Richard L., to Eli Lilly and Company. 9-aminoalkylfluorenes. 4,658,061, 4-14-87, Cl. 564-180.000.

Lacey, Charles M.: *See—*
- Hames, Jeffrey L.; Lacey, Charles M.; Neuman, Ronald R.; and Reidenbach, John R., 4,661,729, Cl. 310-13.000.

Lacey, David: *See—*
- Balkwill, Peter H.; Bishop, David I.; Pearson, Andrew D.; Sage, Ian C.; Gray, George W.; Lacey, David; Toyne, Kenneth J.; and McDonnell, Damien G., 4,695,131, Cl. 350-350.00R.
- Fearon, Julie E.; Smith, Wendy E.; Gray, George W.; Lacey, David; Toyne, Kenneth J.; and Weber, Georg, 4,659,502, Cl. 252-299.610.
- Kam Ming Chan, Lawrence; Gray, George W.; Toyne, Kenneth J.; Lacey, David; Eidenschink, Rudolf; and Romer, Michael, 4,696,549, Cl. 350-350.00R.

Lacey, Derick A.: *See—*
- Dickson-Wright, Edward A.; and Lacey, Derick A., 4,684,311, Cl. 414-535.000.

Lacey, James J. Pump prime maintainer. 4,678,001, 7-7-87, Cl. 137-194.000.

Lacey, Meredith D. Log carrying apparatus. 4,699,416, 10-13-87, Cl. 294-152.000.

Lacey, Michael J.: *See—*
- Rhodes, Stuart H.; Lyons, Graham R.; Gregson, Richard P.; Akhurst, Raymond J., and Lacey, Michael J., 4,672,130, Cl. 348-453.000.

Lacey, Paul D.: *See—*
- Chapman, Victor B.; and Lacey, Paul D., 4,710,963, Cl. 382-7.000.

Lacey, Raymond D.: *See—*
- Bradley, William D.; Alvi, Zia R.; and Lacey, Raymond D., 4,642,010, Cl. 411-69.000.
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Lacey, Richard F., to Hewlett-Packard Company. Support for a moving mirror in an interferometer. 4,710,001, 12-1-87, Cl. 350-632.000.

Lacey, Thomas G. Apparatus for mounting solar cells. 4,677,248, 6-30-87, Cl. 136-244.000.

Lach, Dietrich; Streicher, Rolf; and Strickler, Rainer, to BASF Aktiengesellschaft. Amphoteric condensates and their use in retanning. 4,675,021, 6-23-87, Cl. 8-94.240.

Lach, Horst. Process and device for treatment of metal-bonded nonconductive materials. 4,641,007, 2-3-87, Cl. 219-69.00M.

Lach, John S. Device for holding hinged structure in open position. 4,634,170, 1-6-87, Cl. 296-76.000.

Lach, Lawrence E., to Gould Inc. GaAs differential line receiver with positive feedback. 4,636,654, 1-13-87, Cl. 307-260.000.

Lach, Lawrence E., to Gould Inc. Small propagation delay measurement for digital logic. 4,712,061, 12-8-87, Cl. 324-83.00D.

Lach, Ronald L.; and Welton, Randall R., to Actron, Inc. Traffic control system for drive-in banks. 4,670,844, 6-2-87, Cl. 364-436.000.

Lachaize, Christian; Andrieu, Jean-Pierre; and Chagny, Christian, to Thomson-CSF. Method for processing video signals in a digital image transformer. 4,660,043, 4-21-87, Cl. 342-185.000.

LaChance, Raymond H.: *See—*
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Lachenmeier, Timothy T., and Howard, Christian S. Method and apparatus for playing a game. 4,700,951, 10-20-87, Cl. 273-264.000.

Lacher, Ludwig: *See—*
- Eichenberger, Hansulrich; Lacher, Ludwig; and Schmid, Titus, 4,677,710, Cl. 19-218.000.

Lachish, Uri: *See—*
- El-Hanany, Uri; Lachish, Uri; Rotter, Shlomo; and Adler, Eli, 4,701,607, Cl. 250-205.000.

Lachman, Irwin M.; and Golino, Carlo, to Corning Glass Works. Preparation of high surface area agglomerates for catalyst support and preparation of monolithic support structures containing them. 4,657,880, 4-14-87, Cl. 502-64.000.

Lachman, Irwin M.: *See—*
- DeAngelis, Thomas P.; and Lachman, Irwin M., 4,637,995, C 502-439.000.

Lachman, John C.; Moorman, Lewis B.; and Bosak, Alan A., to Hoskins Manufacturing Company. Coil hanger and handling method. 4,633,918, 1-6-87, Cl. 140-71.00R.

Lachmann, Helmut. High-pressure self-actuating flow-control valve assembly. 4,673,162, 6-16-87, Cl. 251-30.010.

Lachmann, Ulrich, and Krug, Erwin, to Siemens Aktiengesellschaft. Integrated constant current source. 4,651,083, 3-17-87, C 323-316.000.

Lachner, Hans: *See—*
- Lubojatsky, Walter; Lachner, Hans; and Seebacher, Gerald, 4,679,856, Cl. 299-11.000.

Lack, Bernd: *See—*
- Welp, Ullrich; Kramer, Willi; Girke, Michael; and Lack, Bernd, 4,634,269, Cl. 355-100.000.

Lack, Larry H., to Underwood, Dawn J.; and Phillips, James H. Door barricade system. 4,671,014, 6-9-87, Cl. 49-394.000.

Lackey, Richard O.: *See—*
- Tator, Kenneth B.; and Lackey, Richard O., 4,698,507, C 250-429.000.

Lackey, Robert W.: *See—*
- Fershko, Jane S.; and Lackey, Robert W., 4,690,287, Cl. 211-49.10

Lackey, Stanley A., Jr.: *See—*
- Bomba, Frank C.; Bhandarkar, Dileep P.; Grady, J. J. III; Lackey, Stanley A., Jr.; Mitchell, Jeffrey W., and Schumann, Reinhard, 4,648,030, Cl. 364-200.000.

Lackinger, Franz, to Westward Investments Limited. Cable gland embodying moisture-proof seal. 4,692,563, 9-8-87, Cl. 174-65.0SS.

Lackner, John R., Rathgeber, Juergen; and Newby, J. Parks, to Scott & Fetzer Company, The. Container for tool accessories. 4,653,638, 3-31-87, Cl. 206-373.000.

Lackner, John R., and Bartasevich, William E., Jr., to Scott & Fetzer Company, The. Vacuum cleaner accessory bracket. 4,683,607, 8-4-87, Cl. 15-323.000.

Lacks Industries, Inc.: *See—*
- Bramer, Charles, 4,690,013, Cl. 74-501.00M.
- Bramer, Charles, 4,701,037, Cl. 350-634.000.

Laco, Michael J.: *See—*
- Atkinson, Robert W.; and Laco, Michael J., 4,669,453, C 128-66.000.

Lacolle, Jean-Yves; and Danree, Bernard, to Institut de Recherches Chimiques et Biologiques Appliquees (I.R.C.E.B.A.). β-[2-(halogenobenzyl)-phenoxy]-ethylamine derivatives. 4,659,741, 4-21-87, Cl. 514-643.000.

LaConti, Anthony B.: *See—*
- Dempsey, Russell M.; Fragala, Anthony R.; LaConti, Anthony B.; and Enos, John F., 4,707,229, Cl. 204-129.000.

Lacoste, Bernard, to Fives-Cail Babcock. Device for automatically loading ammunition in a cannon. 4,662,266, 5-5-87, Cl. 89-45.000.

LaCoste, Bernard L.: *See—*
- Dawawala, Suryakant K.; and LaCoste, Bernard L., 4,679,769, C 251-282.000.

Lacoste, Gerard: *See—*
- Giroir, Didier; and Lacoste, Gerard, 4,672,536, Cl. 364-200.000.

Lacoste, Olivier: *See—*
- Alias, Pascal; Lacoste, Olivier; Marjollet, Jacques; and Pouderoux, Pierre, 4,671,214, Cl. 122-488.000.

Lacoste, Olivier H. V.; De Regel, Alain; Fujiwara, Hidenori; and Yap, Raymond C. C., to Exxon Chemical Patents Inc. Road marking compositions. 4,690,958, 9-1-87, Cl. 523-172.000.

Lacoste, SA: *See—*
- Roy, Jehan; and Dubois, Jean, 4,684,171, Cl. 297-47.000.

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LaCount, Clifford E.: *See—*
- Arney, Michel D.; and LaCount, Clifford E., 4,684,185, C 439-502.000.

LaCount, Dale F.; Holbrook, Richard L.; Mayer, Dean L.; and Kahlow, Kurt J., deceased (by Kahlow, Ronald A., executor), to Babcock

& Wilcox Company, The. Integral joint forming of work-hardenable high alloy tubing. 4,649,728, 3-17-87, Cl. 72-85.000.

LaCount, Kenneth H., to Cooper Industries. Separable lifting hook. 4,708,382, 11-24-87, Cl. 294-82.100.

Lacour, Alain, deceased: *See—*
  Platel, Alain Y.; Bourgery, Guy R.; and Lacour, Alain, deceased, 4,639,452, Cl. 514-252.000.

Lacour, Gilbert, to Clesso-Mandet. Pressure-reducing apparatus. 4,667,693, 5-26-87, Cl. 137-116.300.

Lacourse, Norman L.: *See—*
  Zwiercan, Gary A.; Lacourse, Norman L.; and Lenchin, Julianne M., 4,695,475, Cl. 426-582.000.

LaCourt, Michael W.: *See—*
  Morse, John E.; LaCourt, Michael W.; and Ellis, Richard G., 4,664,303, Cl. 226-21.000.

Lacroix, Daniel, to Skis Lacroix S.A. Method of manufacturing laminated skis with built-in metal blades, and skis thus obtained. 4,667,977, 5-26-87, Cl. 280-602.000.

Lacroix, Guy: *See—*
  Borrod, Guy; and Lacroix, Guy, 4,675,429, Cl. 558-145.000.

Lacroix, Jean-Claude; Franco, Pierre; Le Gall, Stephane; Bourret, Gerard; and Pochet, Jacques, to Compagnie Industrielle des Telecommunications CIT-Alcatel. Method and apparatus for remote signalling by substituting a message for the data conveyed by a digital transmission link. 4,677,644, 6-30-87, Cl. 375-5.000.

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LaCroix, Lloyd A. Scissor lift and transport. 4,693,660, 9-15-87, Cl. 414-458.000.

Lacroix, Roger; Adam, Jean-Marie; and Vincze, Janos, to Ciba-Geigy Corporation. Anthraquinone compounds and the production and use thereof. 4,695,406, 9-22-87, Cl. 260-372.000.

Lact-Assist, Incorporated: *See—*
  Stuart, Herbert H., 4,680,028, Cl. 604-74.000.

Lacy, Donald D. Attachment for remote control of a plurality of signal monitors. 4,682,164, 7-21-87, Cl. 340-825.030.

Lacy, Lewis L.: *See—*
  Robinson, Michael B.; and Lacy, Lewis L., 4,677,642, Cl. 373-10.000.

Lacy, Sylvia M.: *See—*
  Hsu, Edward C.; Merchant, Philip, Jr.; Smith, Dean L., Jr.; Kelly, Kevin P.; and Lacy, Sylvia M., 4,692,237, Cl. 208-177.000.

Lacymil Corporation: *See—*
  Miller, Richard E., 4,653,752, Cl. 273-60.00B.

Lacz, Alexandre, to Bendix Electronics S.A. Multiple fastening clip and device for the collective mounting of electronic power components. 4,674,005, 6-16-87, Cl. 361-388.000.

Ladanyi, Laszlo: *See—*
  Berenyi nee Poldermann, Edit; Varga, Laszlo; Pallos, Laszlo; Petocz, Lujza; Ladanyi, Laszlo; Tompe, Peter; Hartai nee Zsorzs, Eva; and Kovacs nee Palotai, Agnes, 4,652,562, Cl. 514-237.000.

Ladd, James E., Jr., and Jacobs, David R., to Laura Lupton, Inc. Cosmetic powder dispenser and applicator. 4,647,240, 3-3-87, Cl. 401-123.000.

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Ladd, Judith A.; and Vanderpool, Clarence D., to GTE Products Corporation. Process for recovery of chromium. 4,668,483, 5-26-87, Cl. 423-53.000.

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Lade, Jan: *See—*
  Asbjornsen, Svein; and Lade, Jan, 4,711,492, Cl. 297-284.000.

Lade, Robert W.; Benjamin, James A.; and Schutten, Herman P., to Eaton Corporation. Vertically layered MOMOM tunnel device. 4,642,665, 2-10-87, Cl. 357-6.000.

Lade, Robert W.; Benjamin, James A.; and Schutten, Herman P., to Eaton Corporation. Method for making horizontally layered momom tunnel device. 4,675,979, 6-30-87, Cl. 29-571.000.

Lade, Robert W.; Benjamin, James A.; and Schutten, Herman P., to Eaton Corporation. Method for making vertically layered MOMOM tunnel device. 4,675,980, 6-30-87, Cl. 29-571.000.

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  Benjamin, James A.; Lade, Robert W.; and Schutten, Herman P., 4,635,084, Cl. 357-22.000.
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Ladeburg, Jorg; Becker, Robert; Dreymann, Bernhard; Gensler, Thomas; Ulrich, Robert; Wahrenbruch, Paul; and Blaser, Reinhard, to Accumulatorenfabrik Sonnenschein GmbH. Control circuit for the current of a welding transformer. 4,672,166, 6-9-87, Cl. 219-110.000.

Ladehoff, Arthur W. Decoy with plug-in leg assembly. 4,658,530, 4-21-87, Cl. 43-3.000.

Ladeira, Newton C.; De Oliveria, Paulo R. M.; Marante, Adilson P.; and Krepel, Pedro A., to K.L + M Industria E Comercio S/P. Process to eliminate air pollutants which result from the combustion of fuels containing sulphur. 4,649,033, 3-10-87, Cl. 423-242.000.

Ladent, Claude: *See—*
  Barroyer, Paul; Foucher, Bernard; Ladent, Claude; and Wicke, Jean P., 4,676,303, Cl. 165-78.000.

Ladet, Michel: *See—*
  Guillermet, Robert; Ladet, Michel; Laslaz, Gerard; and Le Bars, Claude, 4,681,665, Cl. 204-14.100.

Ladewig, Christopher G. Safety mask construction. 4,674,136, 6-23-87, Cl. 2-428.000.

Ladewig, Dieter; and Ramcke, Bernd, to E.C.H. Will (GmbH & Co.). Apparatus for attaching flap-over covers to stacks of paper sheets or the like. 4,710,256, 12-1-87, Cl. 156-484.000.

Ladic, Josef: *See—*
  Munning, Hans; Bock, Jurgen; Oldach, Bernd; Ladic, Josef; Rauert, Max-Otto; Emde, Hugo; Petzsch, Dietrich; and de Baan, Johannes J., 4,660,686, Cl. 188-280.000.
  Munning, Hans; Bock, Jurgen; Oldach, Bernd; Ladic, Josef; Rauert, Max-Otto; Emde, Hugo; Petzsch, Dietrich; and de Baan, Johannes J., 4,673,067, Cl. 188-299.000.

Ladin, Eli M. Strap cutting tool. 4,644,646, 2-24-87, Cl. 30-134.000.

Ladner, David W.: *See—*
  Los, Marinus; Ladner, David W.; and Cross, Barringtin, 4,650,514, Cl. 71-90.000.

Ladner, George O., Jr.: *See—*
  Lee, Mark C.; Schilling, Christopher; Ladner, George O., Jr.; and Wang, Taylor G., 4,670,035, Cl. 65-21.400.

Ladner, Martha B.: *See—*
  Mark, David F.; Wang, Alice M.; Ladner, Martha B.; Creasey, Abla A.; Lin, Leo S.; and Van Arsdell, Janelle, 4,677,063, Cl. 435-68.000.
  Mark, David F.; Wang, Alice M.; Ladner, Martha B.; Creasey, Abla A.; Van Arsdell, Janelle N.; and Lin, Leo S., 4,677,064, Cl. 435-68.000.

Ladner, Robert C. Computer based system and method for determining and displaying possible chemical structures for converting double- or multiple-chain polypeptides to single-chain polypeptides. 4,704,692, 11-3-87, Cl. 364-496.000.

Ladney, Michael: *See—*
  Hatfield, Raymond W., 4,703,716, Cl. 118-500.000.
  Loren, Norman S., 4,633,559, Cl. 29-243.500.
  Loren, Norman S.; and Gordon, William E., 4,635,984, Cl. 293-120.000.
  Loren, Norman S., 4,643,448, Cl. 280-777.000.
  Loren, Norman S.; and Gordon, William E., 4,652,031, Cl. 293-120.000.

Ladney, Michael, Jr.: *See—*
  Loren, Norman S., 4,708,398, Cl. 301-37.0PB.

LaDonna, Richard V.: *See—*
  Drake, Donald J.; Hawkins, William G.; Markham, Roger G.; and LaDonna, Richard V., 4,638,328, Cl. 346-75.000.

Ladouceur, Harold A.: *See—*
  Steward, John H.; and Ladouceur, Harold A., 4,679,690, Cl. 206-345.000.

Ladriere, Serge. Projectiles intended to be fired by a fire-arm. 4,708,063, 11-24-87, Cl. 102-516.000.

LaDue, Philip G.; and Peglow, James D., to Standard Register Company, The. Blank document guard in a check writing machine. 4,712,935, 12-15-87, Cl. 400-645.100.

Laederach-Zaugg, Barbara. Device for ozonizing a fluid. 4,686,036, 8-11-87, Cl. 210-177.000.

Laeis-Werke AG: *See—*
  Jung, Rolf, 4,713,204, Cl. 264-120.000.

Laemmle, Joseph T.; Bohaychick, John; and Lansdale, Willie, to Aluminum Company of America. Parting composition comprising glycerol trioleate, castor oil and copper corrosion inhibitor. 4,634,469, 1-6-87, Cl. 106-38.240.

Laemmle, Joseph T.; and Bohaychick, John, to Aluminum Company of America. Aqueous metal removal fluid. 4,670,168, 6-2-87, Cl. 252-42.000.

Laemmle, Joseph T.: *See—*
  Tsai, Mei-Yuan; and Laemmle, Joseph T., 4,655,947, Cl. 252-49.500.

Lafaille, Jean-Pierre: *See—*
  Poulhes, Marie-Andree; Lafaille, Jean-Pierre; Pourrat, Jacques; and Sanchez, Victor, 4,655,898, Cl. 204-299.00R.

LaFave, Arthur J.: *See—*
  Kittle, Carl E.; LaFave, Arthur J.; and Olson, David L., 4,640,368, Cl. 172-430.000.

LaFay, Victor S.; and Neltner, Stephen L., to Hill-and-Griffith Company, The. Sand casting pattern coating compositions. 4,676,997, 6-30-87, Cl. 427-134.000.

Lafaye, Marc R. R.: *See—*
  Couarc'h, Michel F. E.; Bessouat, Roger; Lafaye, Marc R. R.; and Bernet, Robert R. E., 4,648,329, Cl. 110-245.000.

Lafaye, Michel: *See—*
  Rochard, Michel; and Lafaye, Michel, 4,695,684, Cl. 200-43.070.

Lafer, William: *See—*
  Clementi, Robert J.; Gazdik, Charles E.; Lafer, William; Lovesky, Roy L.; McBride, Donald G.; Munson, Joel V.; and Skarvinko, Eugene T., 4,681,654, Cl. 156-630.000.
  Donson, William A.; Ellerson, James V.; Hammer, Richard B.; Lafer, William; and Snyder, Keith A., 4,690,833, Cl. 427-96.000.

Lafert S.r.l.: *See—*
  Bincoletto, Ilario, 4,700,092, Cl. 310-54.000.

Lafevers, James O.: *See—*
  Grant, Elwyn E.; Lafevers, James O.; and Tribble, Richard P., 4,660,168, Cl. 364-900.000.

Laffin, Gerald A. Loaded arrow holder. 4,662,346, 5-5-87, Cl. 124-41.00A.
LaFlame, Thomas R. Carrier for a percussion instrument or other object. 4,634,032, 1-6-87, Cl. 224-265.000.
Laflamme, Donald: *See—*
  Auger, Jean; and Laflamme, Donald, 4,703,482, Cl. 371-16.000.
Lafon, Louis, to Laboratoire L. Lafon. 3-Phenyl-tetrahydropyridine derivatives, and their use as sedative agents. 4,663,328, 5-5-87, Cl. 514-277.000.
Lafon, Louis, to Laboratoire L. Lafon. 1-alkyl-3-hydroxy-3-phenylpiperidines. 4,680,302, 7-14-87, Cl. 514-327.000.
Lafon, Louis, to Laboratoire L. Lafon. 1-[N-(α-amino-α-methylacetyl-)aminophenyl]-2-aminopropanone derivatives. 4,690,950, 9-1-87, Cl. 514-626.000.
Lafon, Louis, to Laboratoire L. Lafon. (2,4,6-trimethoxyphenyl)-(3-piperidinopropyl)-ketone derivatives. 4,705,795, 11-10-87, Cl. 514-317.000.
Lafon, Louis, to Societe Anonyme Dite: Laboratoire L. Lafon. Acetohydroxamic acid derivative. 4,713,395, 12-15-87, Cl. 514-575.000.
Lafon, Louis, to Societe Anonyme Dite: Laboratoire L. Lafon. 2-tolylmorpholine derivatives and pharmaceutical compositions. 4,714,699, 12-22-87, Cl. 514-227.000.
LaForge, David H.; and Lee, James, to Novacor Medical Corporation. Power supply for body implant and method of use. 4,665,896, 5-19-87, Cl. 128-1.00D.
Laforge, Eric; and Carrard, Jean-Daniel. Apparatus for measuring and displaying the speed of a craft, especially of a sailboard. 4,653,320, 3-31-87, Cl. 73-185.000.
LaForge, Laurence E., to Environments, Limited. Portable stove assembly. 4,643,164, 2-17-87, Cl. 126-44.000.
LaFrance, Alfred T.: *See—*
  Horgan, Anthony M.; LaFrance, Alfred T.; Wieloch, Francis J.; and Yu, Robert C. U., 4,664,995, Cl. 430-59.000.
Lafrance, Conrad D.; and Fatovic, Peter, to Northern Telecom Limited. Telephone handset with integrated flux coil. 4,697,283, 9-29-87, Cl. 379-443.000.
LaFrance Corporation: *See—*
  Peroni, Peter A., 4,691,457, Cl. 40-20.00A.
Lagabe, Andre: *See—*
  Bucher, Claude; and Lagabe, Andre, 4,645,243, Cl. 285-47.000.
Lagace, Maurice P.: *See—*
  Boucher, Stephen G.; and Lagace, Maurice P., 4,667,915, Cl. 248-293.000.
Lagache, Remi-Louis: *See—*
  Vandeweghe, Michel M. J.; Victoor, Johnny-Fredy-Maurice; and Lagache, Remi-Louis, 4,708,174, Cl. 139-448.000.
Lagadec, Roger; and Muller, Robert, to Willi Studer AG. Method and apparatus for supplying a system for processing electrical signals. 4,672,527, 6-9-87, Cl. 363-89.000.
Lagadec, Roger, to Willi Studer AG. Method and apparatus for producing and selectively equalizing a temporal relationship between series of digital signals. 4,709,278, 11-24-87, Cl. 360-26.000.
Lagadec, Roger: *See—*
  Doi, Toshitada; Brandes, Claudia; and Lagadec, Roger, 4,644,546, Cl. 371-49.000.
Lagakos, Nicholas: *See—*
  Blackburn, Douglas; Feldman, Albert; and Lagakos, Nicholas, 4,709,987, Cl. 350-96.340.
Lagally, Hermann O., to Westinghouse Electric Corp. Expandable antivibration bar for a steam generator. 4,653,576, 3-31-87, Cl. 165-69.000.
LaGarde, Robert; and Bouverot, Noel, to Rhone-Poulenc Specialites Chimiques. Heat-curable organopolysiloxane compositions. 4,690,967, 9-1-87, Cl. 524-266.000.
Lagarde, Robert; Machurat, Jean; Morawski, Jean-Claude; and Vrisakis, Georges, to Rhone-Poulenc Industries. Novel precipitated silica particulates. 4,704,425, 11-3-87, Cl. 524-492.000.
Lagarelli, Carmen J.: *See—*
  Denham, Willard A.; Lagarelli, Carmen J.; and Viegener, Rodolfo J., 4,651,770, Cl. 137-270.000.
Lagasse, Paul R., to United States of America, Energy. Tube wall thickness measurement apparatus. 4,633,590, 1-6-87, Cl. 33-148.00R.
Lagendijk, Arie: *See—*
  Roos, Wouter; Damman, Bernardus J.; Lagendijk, Arie; Steidl, Dieter; and von Schenck, Raban, 4,670,244, Cl. 423-659.000.
Lagerberg, Stig E. V., to Santrade Limited. Tool and insert, preferably for turning. 4,714,384, 12-22-87, Cl. 407-103.000.
Lagerstedt, Torgny: *See—*
  Inge, Claes; Lagerstedt, Torgny; Borgstroem, Leonard; Carlsson, Claes-Goeran; Naebo, Sven-Olof; Moberg, Hans; and Franzen, Peter, 4,701,158, Cl. 494-74.000.
Lagesson-Andrasko, Ludmila: *See—*
  Lagesson, Verner; and Lagesson-Andrasko, Ludmila, 4,668,091, Cl. 356-246.000.
Lagesson, Verner; and Lagesson-Andrasko, Ludmila. Arrangement at a gas flow through cell for spectrophotometric analysis of chemical compounds. 4,668,091, 5-26-87, Cl. 356-246.000.
Laggan Marine Developments Limited: *See—*
  Wilks, Thomas M., 4,711,196, Cl. 114-365.000.
Lagier, Michel, to Thomson CSF. Acoustic self-guidance systems for submarine vehicles. 4,712,201, 12-8-87, Cl. 367-92.000.
Lagimoniere, Guy. Swing-operated paddle-wheel water-craft. 4,662,848, 5-5-87, Cl. 440-21.000.
Lagin, Herbert. Medical pillow. 4,683,601, 8-4-87, Cl. 5-431.000.
Lagin, Herbert. Clothes hanging system and theft-proof shipping system. 4,693,369, 9-15-87, Cl. 206-290.000.
Lagin, Steven R.; and Pardo, Jose L. Carrying case for cellular telephone unit. 4,677,654, 6-30-87, Cl. 379-58.000.
Lagna, William M. Methods and apparatus for mass spectrometric analysis of fluids. 4,667,100, 5-19-87, Cl. 250-282.000.
Lagois, Johannes: *See—*
  Hagen, Werner; Lagois, Johannes; and Pruss, Dieter, 4,644,141, Cl. 219-543.000.
  Hagen, Werner; and Lagois, Johannes, 4,654,624, Cl. 338-34.000.
Lagoni, William A.; Tamer, Gregory G.; Muterspaugh, Max W.; and Rindal, Abraham E., to RCA Corporation. Quasi-parallel television suitable for stereo sound reception. 4,660,088, 4-21-87, Cl. 358-198.000.
LaGow, Herman E. Thermal reed design for controlling the temperature of plants. 4,662,105, 5-5-87, Cl. 47-2.000.
Lagow, Ralph J., to Thermal Engine Technology, Inc. Method of generating power from a vapor. 4,693,087, 9-15-87, Cl. 60-670.000.
Lagow, Richard J.; and Persico, Daniel F. Perfluorinated polyether fluids. 4,675,452, 6-23-87, Cl. 568-601.000.
Lagow, Richard J.: *See—*
  Farris, Edward T.; Barsa, John J.; Lagow, Richard J.; and Capan, Paul J., 4,673,355, Cl. 433-218.000.
Lagowski, Jacek: *See—*
  Jastrzebski, Lubomir L.; and Lagowski, Jacek, 4,642,565, Cl. 324-158.00R.
LaGrange, Alain: *See—*
  Lang, Gerard; Forestier, Serge; and LaGrange, Alain, 4,710,5 Cl. 560-51.000.
La Grange, Nyle D.; Nielsen, Darryl M.; and Harbison, Joe A., to Marley-Wylain Company, The. Adjustable float assembly for pumps. 4,680,437, 7-14-87, Cl. 200-84.00R.
LaGrange, Nyle D.; Nielsen, Darryl M.; and Wheeler, Charles F., to Marley-Wylain Company, The. Vaned slinger for pumps. 4,684,3 8-4-87, Cl. 417-366.000.
LaGrange, Nyle D.: *See—*
  Harbison, Joe A.; LaGrange, Nyle D.; and Nielsen, Darryl M., 4,679,991, Cl. 417-360.000.
Lagree, James L.; and Engel, Joseph C., to Westinghouse Electric Corp. Automatic transfer switch with delay. 4,672,227, 6-9-87, Cl. 307-64.000.
Lagree, James L.; and Elms, Robert T., to North American Philips Lighting Corp. Ballast adaptor for improving operation of fluorescent lamps. 4,701,673, 10-20-87, Cl. 315-244.000.
Lagreze, Richard; and Malescot, Georges, to Societe Nationale des Poudres et Explosifs. Process for the manufacture of a double-base propellent composition with low flame-glare emission. 4,701,22 10-20-87, Cl. 149-109.600.
Lagushenko, Radomir I.: *See—*
  Bouchard, Andre C.; Thibault, Paul A.; and Lagushenko, Radomir I., 4,678,520, Cl. 148-6.350.
Laguzza, Bennett C., to Eli Lilly and Company. 1-Substituted-6-n-propyl-8β-methylthio-methylergolines. 4,675,322, 6-23-87, Cl. 514-288.000.
Laguzza, Bennett C.; Nichols, Cynthia L.; and Bach, Nicholas J., to Eli Lilly and Company. 2-alkyl(or phenyl)thio-6-N alkyl ergolines and 4-dialkylaminotetrahydrobenz[c,d]indoles. 4,683,313, 7-28-87, Cl. 548-437.000.
Lahalih, Shawqui; and Absi-Halabi, Ma'mun, to Kuwait Institute for Scientific Research. Utilization of melamine waste effluent. 4,663,3 5-5-87, Cl. 524-843.000.
Lahalih, Shawqui; and Absi-Halabi, Ma'mun, to Kuwait Institute for Scientific Research. Process for the synthesis of highly stable sulfonated melamine-formaldehyde condensates as superplasticizing admixtures in concrete. 4,677,159, 6-30-87, Cl. 524-843.000.
Lahalih, Shawqui: *See—*
  Akashah, Saed-el-Deen; Lahalih, Shawqui; and Al-Hajjar, Farouk, 4,686,790, Cl. 47-9.000.
LaHarrague, Philippe: *See—*
  Schaal, Alfred; LaHarrague, Philippe; and Denis, Rene, 4,689,61 Cl. 340-572.000.
Lahaski, Paul: *See—*
  Zikmanis, Harijs; Prezlock, James; and Lahaski, Paul, 4,635,304, Cl. 4-506.000.
Lahaye, Marcel, to Spadel S.A. Controlling and reducing opening torques of caps and lids. 4,710,409, 12-1-87, Cl. 427-421.000.
Laheyne, Claude: *See—*
  Terrade, Francois; and Laheyne, Claude, 4,645,129, Cl. 239-427.000.
Lahiff, John E., to Essex Group, Inc. Electromagnetic fuel injector having continuous flow path. 4,711,397, 12-8-87, Cl. 239-125.000.
Lahiff, John E.: *See—*
  Juzswik, David L.; and Lahiff, John E., 4,663,575, Cl. 318-444.000
Lahm, George P., to Du Pont de Nemours, E. I., and Company. Insecticidal and acaricidal phenoxypyrdinyl esters and intermediates. 4,694,013, 9-15-87, Cl. 514-345.000.
Lahm, Heinrich, to Index-Werke Komm.-Ges. Hahn & Tessky. Tool changing apparatus for a machine tool. 4,700,442, 10-20-87, Cl. 29-39.000.
Lahmann, Ernst; Walder, Werner; and Burger, Friedhelm, to Mila Hardware & Machinery (UK) Limited. Handle fitting for a drive rod locking arrangement for windows, doors and the like. 4,634,160 1-6-87, Cl. 292-336.300.
Lahmeyer, Charles R., to United States of America, National Aeronautics and Space Administration. Reed-Solomon decoder. 4,649,54 3-10-87, Cl. 371-37.000.

Lahoda, Edward J.; and Eckhardt, David A., to Westinghouse Electric Corp. Method and apparatus for removal of residual sludge from a nuclear steam generator. 4,676,201, 6-30-87, Cl. 122-392.000.

Lahoda, Edward J.; Burgman, Herbert A., and Kwon, Young J., to Westinghouse Electric Corp. Manufacture of silane. 4,695,441, 4-22-87, Cl. 423-347.000.

Lahoda, Edward J.: *See*—
  Peterson, Steven H.; Lahoda, Edward J.; and Weisberg, Sharon L., 4,711,768, Cl. 423-21.500.

Lahodny, Johann; and Dreier, Ernst, to Fritz Gegauf Aktiengesellschaft Bernina-Nahmaschinenfabrik. Surgical instrument, more particularly hysterectomium. 4,644,953, 2-24-87, Cl. 128-305.000.

Lahr, Christopher J. Sphincterogram and anal exercising device. 4,687,002, 8-18-87, Cl. 128-774.000.

Lahr, Helfrid, and Pontani, Bernd, to Deutsche Gesellschaft fur Wiederaufarbeitung von Kernbrennstoffen mbH. Method and apparatus for loading fuel rods into a container. 4,650,640, 3-17-87, Cl. 376-261.000.

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Lahr, Helfrid, and Pontani, Bernd, to Deutsche Gesellschaft fur Wiederaufarbeitung von Kernbrennstoffen mbH. Storage container assembly for accommodating individual fuel rods of irradiated nuclear reactor fuel elements. 4,680,159, 7-14-87, Cl. 376-272.000.

Lahr, Roy J., to Creative Associates. High capacity ribbon supply arrangement. 4,657,418, 4-14-87, Cl. 400-229.000.

Lahr, Roy J., to Creative Associates. Splittable keyboard for word processing, typing and other information input systems. 4,661,005, 4-28-87, Cl. 400-489.000.

Lahrman, David F.: *See*—
  Bantel, Thomas E.; Lahrman, David F.; and Halase, John F., III, 4,634,291, Cl. 374-7.000.

Lahti, Archie E.: *See*—
  Danilenko, Michael; Rusterholz, John T.; and Lahti, Archie E., 4,691,279, Cl. 364-200.000.

Lahtinen, Leila: *See*—
  Ahlfors, Matts; Koskimies, Salme; Lahtinen, Leila; and Idelman, Peter, 4,694,099, Cl. 560-75.000.

LaHue, Ronald L.: *See*—
  Rau, Jim L., and LaHue, Ronald L., 4,665,695, Cl. 60-384.000.

Lai, Ban-Yen: *See*—
  Husain, Matloob; and Lai, Ban-Yen, 4,687,671, Cl. 426-384.000.

Lai, Ching Jun: *See*—
  Wu, Henry, 4,663,635, Cl. 343-765.000.

Lai, George Y., to Cabot Corporation. Sulfidation-resistant Co-Cr-Ni alloy with critical contents of silicon and cobalt. 4,711,763, 12-8-87, Cl. 420-585.000.

Lai, John T., and Son, Pyong N., to B. F. Goodrich Company, The. Polyalkylenepolyamine having pendant substituted oxo-piperazinyl-triazines and UV light stabilized compositions. 4,639,479, 1-27-87, Cl. 524-100.000.

Lai, John T., and Son, Pyong N., to B. F. Goodrich Company, The. Synthesis of polyamines and mixture formed thereby, of diprimary polyalkylene polyamines with disubstituted N-adjacent terminal carbon atom(s). 4,698,446, 10-6-87, Cl. 564-494.000.

Lai, John T., to B. F. Goodrich Company, The. Synthesis of 2-keto-1,4-diazacycloalkanes. 4,711,957, 12-8-87, Cl. 544-231.000.

Lai, John T.: *See*—
  Son, Pyong-Nae; and Lai, John T., 4,650,903, Cl. 564-153.000.
  Son, Pyong-Nae; and Lai, John T., 4,675,353, Cl. 524-96.000.
  Son, Pyong-Nae; and Lai, John T., 4,692,487, Cl. 524-100.000.

Lai, Kwo-Hrong; Lapkin, Milton; and Swasey, Frank B., to ICI Americas Inc. Aqueous-based urethane coating compositions. 4,657,964, 4-14-87, Cl. 524-409.000.

Lai, Mun F.: *See*—
  Fellner, Peter J.; Lai, Mun F.; and Patel, Thakorbhai P., 4,636,518, Cl. 514-397.000.

Lai, Por-Hsiung, and Strickland, Thomas W., to Kirin-Amgen, Inc. Erythropoietin purification. 4,667,016, 5-19-87, Cl. 530-397.000.

Lai, Shui T.: *See*—
  Gualtieri, Devlin M., and Lai, Shai T., 4,713,577, Cl. 313-468.000.

Lai, Stephen H.; and Srivastava, Gopal K., to Zenith Electronics Corporation. Beam current compensation for vertical size in a digital TV. 4,651,062, 3-17-87, Cl. 315-371.000.

Lai, Tony F. L.: *See*—
  Braun, William G.; Palin, Philip R.; Von Moll, Brent L., and Lai, Tony F. L., 4,671,794, Cl. 604-240.000.

Lai, Winston. Collapsible golf cart with one-step folding operation. 4,681,341, 7-21-87, Cl. 280-646.000.

Laiacona, Michael N.; Thompson, William; and Cornell, Carl L., to Whirlwind Music Distributors, Inc. Device for selectively routing audio signals bidirectionally along one or two signal paths. 4,700,060, 10-13-87, Cl. 250-214.00R.

Laib, Donald L., to Forest Grove Industries, Inc. Guidance system for self-guided vehicle. 4,714,124, 12-22-87, Cl. 180-168.000.

Laib, Roger D.: *See*—
  Speca, Anthony N.; and Laib, Roger D., 4,650,842, Cl. 526-100.000.

Laidman, Jerry H. Low voltage lighting system replaceable bulb assembly. 4,654,765, 3-31-87, Cl. 362-238.000.

Laie, Ching H. Safety hauling coupler. 4,699,394, 10-13-87, Cl. 280-493.000.

Laier, James E. Method and apparatus for building up beaches and protecting shorelines. 4,710,057, 12-1-87, Cl. 405-30.000.

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Laine, David J.: *See*—
  Sloan, George C.; and Laine, David J., 4,680,817, Cl. 4-663.000.

Laine, Richard M.; and Shvo, Youval, to SRI International. Catalyst system for amine transalkylation. 4,645,837, 2-24-87, Cl. 544-402.000.

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Laing, Birger J.: *See*—
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  Rotola, Louis A., Jr.; and Laing, Gordon E., 4,705,547, Cl. 55-374.000.

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  Laing, Oliver; and Laing, Johannes L. N., 4,710,100, Cl. 416-11.000.

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Laipply, Thomas C. Applicator wipe for inviscid fluids. 4,696,393, 9-29-87, Cl. 206-210.000.

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  Belot, Dominique; Rade, Jean-Yves; Piffard, Jean-Francois; Larquet, Christian; and Cornut, Philippe, 4,698,218, Cl. 423-347.000.
  Bolot, Denis; Cuny, Francis; and Lasmer, Didier, 4,653,692, Cl. 239-427.000.
  Delacour, Pierre; Prost, Roger; and Mondain-Monval, Gerard, 4,646,525, Cl. 62-54.000.
  Delatte, Daniel, 4,665,713, Cl. 62-382.000.
  Gauthier, Pierre, 4,666,483, Cl. 62-24.000.
  Ghommidh, Charles; Navarro, Jean-Marie; Girardon, Philippe; and Amen, Jean, 4,687,668, Cl. 426-17.000.
  Gibot, Claude, 4,640,099, Cl. 62-62.000.
  Goumy, Daniel; and Defrancq, Charles, 4,644,995, Cl. 164-159.000.
  Jamonet, Bernard; Rigouard, Alain; Bouchez, Jean-Pierre; and Duc, Jean, 4,711,721, Cl. 210-607.000.
  Karinthi, Pierre; Gardent, Maurice; Regnier, Colette; and Tuccella, Jean, 4,676,694, Cl. 405-130.000.
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  Pean, Jean-Louis; Desvard, Catherine; and Barbier, Jean-Paul, 4,715,985, Cl. 252-305.000.
  Rignon, Maurice; Catonne, Jean-Claude; Denisard, Francoise; and Malafosse, Jean, 4,678,549, Cl. 204-74.000.

Salinier, Guy; and Bossard, Jean-Paul, 4,645,973, Cl. 315-39.000.
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Madsac, Michel; and Mauvoisin, Rene, 4,702,779, Cl. 148-16.600.
Madsac, Michel, 4,713,215, Cl. 419-8.000.
Marhic, Gerard; and Messager, Joel, 4,650,956, Cl. 219-121.0PY.
Naud, Jean-Michael, 4,666,511, Cl. 75-51.700.
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Laird, Richard A.: *See—*
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Laird, Robert A.: *See—*
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Laitar, Robert A., to Acme Resin Corporation. Binder compositions containing phenolic resins and esters of alkoxy acids. 4,698,377, 10-6-87, Cl. 523-143.000.

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Iyer, Raja; Shah, Rasik C.; and Laitar, Robert A., 4,657,950, Cl. 523-145.000.

Laitem, Leo: *See—*
Broze, Guy; Bastin, Danielle; Laitem, Leo; and Ouhadi, Trazollah, 4,655,954, Cl. 252-102.000.

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Fowler, John T.; and Gilbert, Douglas C., 4,698,912, Cl. 33-356.000.
Fowler, John T., 4,711,194, Cl. 114-245.000.
Lapeyre, George C.; Greve, Christopher G.; and Ruys, Hendrik J., 4,715,093, Cl. 17-71.000.
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Lapeyre, James M.; and Greve, Christopher G., 4,673,011, Cl. 144-136.00B.
Lapeyre, James M., 4,680,725, Cl. 364-709.000.
Lapeyre, James M., 4,688,670, Cl. 198-853.000.
Lapeyre, James M., 4,688,933, Cl. 356-1.000.
Lapeyre, James M., 4,693,861, Cl. 264-328.100.
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Jortikka, Markku J.; Forss, Eino H.; Heino, Harry A.; Lajunen, Erkki A.; Putkonen, Erkki E.; Julkunen, Toivo E.; and Laurio, Timo, 4,676,826, Cl. 75-51.100.

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Niksa, Marilyn J.; Pohto, Gerald R.; Lakatos, Leslie K.; Wheeler, Douglas J.; Niksa, Andrew J.; and Schue, Thomas J., 4,693,946, Cl. 429-27.000.

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Lakatos, Tibor: *See—*
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Toulouse, Charles P., 4,716,264, Cl. 200-61.860.
Whetstone, Wayne L.; and Tryan, Fredrick W., 4,638,640, Cl. 62-139.000.

Lake Charles Instruments, Inc.: *See—*
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Carpenter, Frank, 4,674,338, Cl. 73-861.770.

Lake, Connie, to S. Eisenberg & Co. Divided cell carton with resilient biasing members. 4,657,173, 4-14-87, Cl. 229-2.5EC.

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Lake, Donald D.: *See—*
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Lake, Harold; and Grandmont, Paul E., to Foxboro Company, The. Method of patterning resist for printed wiring board. 4,666,81 5-19-87, Cl. 430-256.000.

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Lake, Ralph J., Jr.; and Iosso, Thomas P., to Burroughs Corporation. Theft prevention apparatus. 4,648,737, 3-10-87, Cl. 403-322.000.

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Laker, Edward B. Reedmaking system, methodology, and component tools. 4,708,182, 11-24-87, Cl. 144-369.000.

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Lakes, Sherman, to Day Star Concepts. Coated, heat shrinkable expanded polystyrene. 4,640,862, 2-3-87, Cl. 428-308.400.

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Lakeside Equipment Corporation: *See—*
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Lakhani, Amir A.; and Olver, Laurence C., to Allied Corporation. Method of fabricating self-aligned field-effect transistor having I-shaped gate electrode, sub-micron gate length and variable drain to gate spacing. 4,679,311, 7-14-87, Cl. 29-579.000.

Lakhani, Amir A.: *See—*
Aina, Olaleye A.; and Lakhani, Amir A., 4,662,060, Cl. 29-571.000.

Lakic, Nikola. Shoe with internal foot warmer. 4,674,199, 6-23-87, Cl. 36-2.600.

Lakin, Bryan L., to Fasco Industries, Inc. Motor housing and end shield mount. 4,644,204, 2-17-87, Cl. 310-89.000.

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La Komski, Greg; and Pimental, Ken, to Intel Corporation. Low noise test contacts for pin grid array. 4,668,041, 5-26-87, Cl. 339-147.00R.

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  Owen, Murl, 4,696,903, Cl. 436-28.000.

Lam, Albert. Electric wire connector for coaxial cable. 4,708,414, 11-24-87, Cl. 439-394.000.

Lam, Bing L.; and Pridgen, Lendon N., to SmithKline Beckman Corporation. Substituted pyrimidinones. 4,675,406, 6-23-87, Cl. 544-320.000.

Lam, Chiu T.: *See—*
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Lam, Chung H., to International Business Machines Corporation. Non-volatile dynamic random access memory cell. 4,665,417, 5-12-87, Cl. 357-23.500.

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Lama, William L.; and Loce, Robert P., to Xerox Corporation. Method and apparatus for eliminating exposure strobing effects in a document reproduction machine. 4,707,122, 11-17-87, Cl. 355-71.000.

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LaMarre, Thomas M.; and Martin, Cynthia H., to Nalco Chemical Company. Synergistic biocide of 2-(p-hydroxyphenol)-glyoxylohydroximoyl chloride and 2,2-dibromo-3-nitrilopropionamide. 4,661,518, 4-28-87, Cl. 514-528.000.

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LaMattina, John L., to Pfizer Inc. Method for treatment of gastrointestinal disorders. 4,673,677, 6-16-87, Cl. 514-277.000.

LaMattina, John L.: *See—*
  Walker, Frederick J.; and LaMattina, John L., 4,711,888, Cl. 514-269.000.

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  Anderson, John C.; Davies, Morris J.; and Lamb, Archie C., 4,672,199, Cl. 250-227.000.
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Lamb, C. Paul, to Teledyne Industries, Inc. Valve seat design to reduce cavitation. 4,679,592, 7-14-87, Cl. 137-625.330.

Lamb, Charles G.; and McMurtrie, Andrew, to Brown & Williamson Tobacco Corporation. Cigarette filter. 4,708,150, 11-24-87, Cl. 131-336.000.

Lamb, Christopher; Lawson, John R.; and Pearson, Carol, to Procter & Gamble Company, The. Liquid detergent compositions. 4,671,894, 6-9-87, Cl. 252-545.000.

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  Solarek, Daniel B.; Jobe, Patrick G.; Tessler, Martin M.; Billmers, Robert L.; Lamb, Diane J.; and Tsai, John J., 4,703,116, Cl. 536-104.000.

Lamb, Haydn R.: *See—*
  Barr, John D.; and Lamb, Haydn R., 4,711,144, Cl. 76-108.00A.

Lamb, James S.: *See—*
  Metz, Arthur J.; and Lamb, James S., 4,663,610, Cl. 340-347.0DA.

Lamb, Joy A.: *See—*
  Jenner, Michael D.; and Lamb, Joy A., 4,663,529, Cl. 250-338.000.

- Lamb, Kenneth V.: *See—*
  - Spangler, Harvey D.; and Lamb, Kenneth V., 4,681,603, Cl. 55-27.000.
- Lamb, Mark E.: *See—*
  - Hansen, Loren F.; and Lamb, Mark E., 4,638,867, Cl. 172-22.000.
  - Hansen, Loren F.; and Lamb, Mark E., 4,645,012, Cl. 172-22.000.
- Lamb, Owen L.; and Maclay, William R., to Slide Management Systems, Inc. Slide archival storage and retrieval system. 4,693,373, 9-15-87, Cl. 209-3.300.
- Lamb, Patrick R. J.; Joyce, Terrance F.; and Scouse, Bernard R., to Environheat Limited. Air conditioning apparatus. 4,662,187, 5-5-87, Cl. 62-274.000.
- Lamb Technicon Corp.: *See—*
  - Byal, Mark; Leo, Francis G.; and Schwenke, Marvin J., 4,670,834, Cl. 364-186.000.
  - Lunn, Garfield R., 4,700,936, Cl. 269-226.000.
  - Mason, Arthur C., 4,669,607, Cl. 198-774.000.
- Lamb, Terry L.: *See—*
  - Wing, Phillip L.; Jennings, James K.; and Lamb, Terry L., 4,657,790, Cl. 427-374.100.
- Lamb, Timothy K. Current killer, swift water floater. 4,691,466, 9-8-87, Cl. 43-43.130.
- Lamb, Walter J.; and Kunze, Kenneth R., to Exxon Production Research Co. Method for acidizing siliceous formations. 4,648,456, 3-10-87, Cl. 166-307.000.
- Lamb-Weston, Inc.: *See—*
  - Rayment, Arthur G.; and Johanson, Herbert W., Jr., 4,656,904, Cl. 83-289.000.
- Lamb, William C. Music page holder aad turner. 4,655,427, 4-7-87, Cl. 248-460.000.
- Lambarelli, Livio; Roffinella, Daniele; and Sposini, Maurizio, to CSELT-Centro Studi e Laboratori Telecomunicazioni S.p.A. Wide-band integrated services local communication system. 4,663,758, 5-5-87, Cl. 370-94.000.
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  - Gagliardi, Fabrizio; Lambarelli, Livio; Panarotto, Gianfranco; Roffinella, Daniele; and Sposini, Maurizio, 4,696,001, Cl. 370-88.000.
- Lambelet, Jose A. Method of facilitating the covering of large surfaces. 4,708,755, 11-24-87, Cl. 156-64.000.
- Lambelin, Georges E.; Roncucci, Romeo R.; Roba, Joseph; and Gillet, Claude L., to Continental Pharma Inc. Heterocyclic amino-alcohol derivatives. 4,638,070, 1-20-87, Cl. 549-23.000.
- Lambelin, Georges E.: *See—*
  - Roncucci, Romeo; Gillet, Claude L.; Cordi, Alexis H.; Martens, Mark A.; Roba, Joseph L.; Niebes, Paul J.; Lambelin, Georges E.; and Van Dorsser, William R., 4,639,468, Cl. 514-620.000.
- Lamberg, John R.: *See—*
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- Lambers, Howard: *See—*
  - Martin, Eugene J.; Tootle, James N.; Fallows, Walter; Lambers, Howard; and Vanderlaan, Robert D., 4,645,178, Cl. 251-229.000.
- Lambers, Howard J.: *See—*
  - Herder, Michael D.; and Lambers, Howard J., 4,646,786, Cl. 137-625.690.
- Lambert, Andre: *See—*
  - Fava, Jean; Lambert, Andre; and Tognet, Jean-Paul, 4,636,369, Cl. 423-20.000.
- Lambert, Charles: *See—*
  - Cuneo, Carol A.; and Lambert, Charles, 4,695,474, Cl. 426-579.000.
- Lambert, David K., to General Motors Corporation. Thermal diffusion fluid flow sensor. 4,713,970, 12-22-87, Cl. 73-861.050.
- Lambert, Earl B. Security bar system for louvered window units. 4,694,608, 9-22-87, Cl. 49-50.000.
- Lambert, Edward H.: *See—*
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- Lambert, Gerald G.: *See—*
  - Butzow, Neil W.; Lambert, Gerald G.; and Tumidajewicz, Donald, 4,634,400, Cl. 464-38.000.
- Lambert, Hans R., to Astra Meditec AB. Hydrophilic coating. 4,666,437, 5-19-87, Cl. 604-265.000.
- Lambert, Harry S.; and VanDam, Daniel J. Protective cover for cable television distribution taps. 4,676,569, 6-30-87, Cl. 439-133.000.
- Lambert, Harvey J.: *See—*
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- Lambert, Herbert L., to Waldorf Corporation. Double breakapart carton with sealable ends and blank for forming the same. 4,712,688, 12-15-87, Cl. 206-602.000.
- Lambert, Jean-Pierre: *See—*
  - Chabrol, Jean-Jacques; and Lambert, Jean-Pierre, 4,678,233, Cl. 297-429.000.
  - Charbrol, Jean-Jacques; and Lambert, Jean-Pierre, 4,712,830, Cl. 297-42.000.
- Lambert, Joseph. Dental floss device. 4,706,694, 11-17-87, Cl. 132-92.00R.
- Lambert, Lahman D., II: *See—*
  - Grabbe, Dimitry G.; and Lambert, Lahman D., II, 4,653,840, Cl. 339-177.00R.
- Lambert, Larry D.: *See—*
  - Palmer, Jerry D.; Janus, Robert J.; and Lambert, Larry D., 4,646,064, Cl. 340-392.000.
- Lambert, Marc: *See—*
  - Huet, Daniel, and Lambert, Marc, 4,699,083, Cl. 118-719.000.
- Lambert, Maurice, to Service National: Gaz de France. System for applied current cathodic protection of a structure. 4,713,158, 12-15-87, Cl. 204-196.000.
- Lambert, Michael R., to Bethlehem Steel Corporation. Ni-Zn electroplated product resistant to paint delamination. 4,666,791, 5-19-87, Cl. 428-621.000.
- Lambert, Michel, to Societe Bauduin Becart S.A. Polyarticulated retractile mechanism. 4,651,589, 3-24-87, Cl. 74-469.000.
- Lambert, Nicole: *See—*
  - Economopoulos, Marios; Lambert, Nicole; Simon, Pierre; and Conti, Rene., 4,668,308, Cl. 148-12.00R.
- Lambert, Robert W.: *See—*
  - Attwood, Michael R.; Hassall, Cedric H.; Lambert, Robert W.; Lawton, Geoffrey; and Redshaw, Sally, 4,658,024, Cl. 540-500.000.
- Lambert, Susan L.; Lawson, Randy J.; Johnson, Russell W.; and Barr, Tery L., to UOP Inc. Catalytic composite for conversion of hydrocarbons and the method of preparation and use thereof. 4,652,689, 3-24-87, Cl. 585-415.000.
- Lambert, Thomas W.: *See—*
  - Belanger, Barry F.; Liu, Thomas P. L.; and Lambert, Thomas W., 4,700,058, Cl. 250-205.000.
- Lambert, Walter. Culvert beaver block. 4,662,782, 5-5-87, Cl. 405-108.000.
- Lambert, William A., to Cargill, Incorporated. Low tension cascade mill speed control by current measurement with temperature compensation. 4,662,202, 5-5-87, Cl. 72-8.000.
- Lambert, William M., to Mine Safety Appliances Company. Replenishable self contained breathing apparatus. 4,714,077, 12-22-87, Cl. 128-202.270.
- Lamberton, Robert P.; and Lipsky, Milton H., to Rhode Island Hospital. Neovascularization. 4,699,141, 10-13-87, Cl. 128-334.00R.
- Lamberts, Joseph J. M.: *See—*
  - van der Hoorn, Gustaaf H. A.; van der Staak, Caspert G. J.; Lamberts, Joseph J. M.; and Schmitz, Johannes H. A., 4,660,930, Cl. 350-126.000.
- Lambertson, William A. Rotary motion damping means. 4,633,980, 1-6-87, Cl. 188-84.000.
- Lamberty, Bernard J., to Boeing Company, The. Multiple feed antenna. 4,638,322, 1-20-87, Cl. 343-761.000.
- Lambertz, Horst: *See—*
  - Schwarze, Werner; Wolff, Siegfried; Remmel, Hans; and Lambertz, Horst, 4,673,741, Cl. 544-209.000.
- Lambertz, Johannes; and Sievernich, Mathias, to Rheinische Braunkohlenwerke AG. Gas cooling and washing apparatus. 4,652,407, 3-24-87, Cl. 261-112.000.
- Lambertz, Johannes; and Schumacher, Ingo, to Rheinische Braunkohlenwerke AG. Probe devices. 4,695,789, 9-22-87, Cl. 324-61.00P.
- Lambeth, David N., to Eastman Kodak Company. Fill and spill for charge input to a CCD. 4,644,572, 2-17-87, Cl. 377-60.000.
- Lambie, Johannes M. H., to Sierra Chemical Company. Granular fertilizer composition having controlled release and process for the preparation thereof. 4,657,576, 4-14-87, Cl. 71-64.070.
- Lambiris, Christos, to Kidde, Inc. Coin slide jamming mechanism. 4,651,861, 3-24-87, Cl. 194-204.000.
- Lambla, Morand: *See—*
  - Nicco, Adrien; Hubert, Jerome; Druz, Jacques; and Lambla, Morand, 4,657,781, Cl. 427-117.000.
- Lambley, Stephen: *See—*
  - Docherty, Brian; and Lambley, Stephen, 4,672,759, Cl. 40-450.000.
- Lamblin, Jean-Michel: *See—*
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- Lambourn, Robert G. Aerated live bait bucket. 4,677,785, 7-7-87, Cl. 43-55.000.
- Lambousy, George G.; Reaves, Benjamin H.; and Nelson, William E., to Amoco Corporation. Bubble cap assembly. 4,715,996, 12-29-87, Cl. 261-114.200.
- Lambrecht, Emiel, to FMC Corporation. Cutting thermoplastic webs. 4,679,474, 7-14-87, Cl. 83-171.000.
- Lambrecht, Emiel, to FMC Corporation. Method and apparatus for producing bags. 4,699,607, 10-13-87, Cl. 493-204.000.
- Lambrecht, Emiel Y.; and Van Der Gucht, William, to FMC Corporation. Thermoplastic bag machine. 4,702,731, 10-27-87, Cl. 493-196.000.
- Lambrecht, Emiel Y.: *See—*
  - DeBin, Rene F.; and Lambrecht, Emiel Y., 4,638,702, Cl. 83-509.000.
- Lambrecht, Richard M.: *See—*
  - Mirzadeh, Saed; and Lambrecht, Richard M., 4,664,869, Cl. 376-195.000.
  - Mirzadeh, Saed; and Lambrecht, Richard M., 4,681,727, Cl. 376-198.000.
- Lambregts, Augustinus W. M.: *See—*
  - Hermkens, Gerardus A. J.; and Lambregts, Augustinus W. M., 4,660,824, Cl. 271-208.000.
- Lambuth, Alan L., to Boise Cascade Corporation. Adhesive/nail plat truss assembly. 4,659,604, 4-21-87, Cl. 428-99.000.
- Lamcor, Inc.: *See—*
  - Melugin, Simeon A., 4,647,229, Cl. 384-434.000.
- Lamelas, Francisco J.: *See—*
  - Indyk, Richard F.; Lamelas, Francisco J.; and Neisser, Mark O 4,663,186, Cl. 427-57.000.
- Lamensdorf, David; Robbins, Kenneth W.; and Ross, Gerald F., t Sperry Corporation. Antennas for wide bandwidth signals. 4,698,63 10-6-87, Cl. 342-42.000.

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amers, Gregory C.; Endres, Dan D.; Win, Maung H.; and Kuenn, Cary K., to Kimberly-Clark Corporation. Abrasive web and method of making same. 4,659,609, 4-21-87, Cl. 428-194.000.

a Mers, Herbert. Method of separating labels from a carrier strip. 4,648,930, 3-10-87, Cl. 156-247.000.

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Lamiraux, Christian, to MLR Electronic. Method for processing radio signals for radionavigation and receiver for carrying out the said method. 4,695,843, 9-22-87, Cl. 342-417.000.

Lamm, Gunther, to BASF Aktiengesellschaft. Sulfo-containing halophenylazodiamino, cyano pyridine compounds. 4,652,633, 3-24-87, Cl. 534-773.000.

Lamm, Gunther: *See—*

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Bleeker, Jan J.; Lammers, Jan H.; Roest, Jacob B.; and Eckert, Rudolf J. A., 4,670,550, Cl. 536-114.000.

Lammert, Michael D., to TRW Inc. Formation of buried diffusion devices. 4,711,017, 12-8-87, Cl. 437-20.000.

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Lammi, Pekka T., to Kemira Oy. Method for recovering nutrients from the flue gases of a fertilizer plant. 4,662,929, 5-5-87, Cl. 71-35.000.

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Lamond, Lee T.; and Staton, Richard D., to Fichtel & Sachs Industries. Support column with gravity dependent retention means. 4,640,484, 2-3-87, Cl. 248-407.000.

Lamond, Lee T.; and Staton, Richard D., to Fichtel & Sachs Industries, Inc. Gravity dependent retention means. 4,684,098, 8-4-87, Cl. 248-407.000.

LaMonica, Joseph B., to Runnells, Ann. Spear point for fishing spear guns. 4,685,239, 8-11-87, Cl. 43-6.000.

Lamonica, Mark. Method for making pizza. 4,649,053, 3-10-87, Cl. 426-302.000.

Lamonica, Mercurio. Hydro lazy tongs energy booster. 4,671,132, 6-9-87, Cl. 74-521.000.

Lamont, Charles E.; and Hansen, William A. Liquid dispensing system. 4,676,400, 6-30-87, Cl. 222-1.000.

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Lamont, Lawrence T., Jr., to Varian Associates, Inc. Magnetically enhanced sputter source. 4,673,480, 6-16-87, Cl. 204-298.000.

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Lamont, Patrick A., to C.C.L. South Africa (Proprietary) Limited. Hammer. 4,683,784, 8-4-87, Cl. 81-22.000.

Lamont, Peter; Monroe, Carl M.; and Skostins, Olgerts, to Dow Corning Corporation. Silicone extrusion stock. 4,701,491, 10-20-87, Cl. 524-493.000.

Lamont, Peter, to Dow Corning Corporation. Method of reducing activity of silicone polymers. 4,704,443, 11-3-87, Cl. 528-18.000.

LaMont, Romanus M. Quick connect lamp socket. 4,653,829, 3-31-87, Cl. 339-97.00L.

LaMont, Romanus M. Unitary collapsible coat hanger. 4,673,115, 6-16-87, Cl. 223-94.000.

Lamot, Jerzy. Wear plate for flush valve assembly. 4,639,951, 2-3-87, Cl. 4-392.000.

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Lamoureux, Robert. Belly pan for four wheel all terrain vehicles. 4,655,307, 4-7-87, Cl. 180-69.100.

Lampard, Robert D., to Barrack Technology; and Baralaba Pty. Limited. Internal combustion engine. 4,641,616, 2-10-87, Cl. 123-256.000.

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Lampenius, Harry; and Frejborg, Frey, to A. Ahlstrom Corporation. Screening apparatus. 4,676,903, 6-30-87, Cl. 210-413.000.

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Lamping, Alfons; Karth, Beat; and Hiltbrunner, Werner, to Nyffeler, Corti AG. Cold- or heat-sealable composite film for reclosable packages. 4,673,601, 6-16-87, Cl. 428-35.000.

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Lampl, Josef, to Siemens Aktiengesellschaft. Speech control in a telephone station. 4,710,953, 12-1-87, Cl. 379-391.000.

Lampo, Ciro S.; and Turner, William T., to Westvaco Corporation. Method for rosin esterification. 4,650,607, 3-17-87, Cl. 260-104.000.

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Lamprecht, Helmut: *See—*

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Woerner, Frank P.; Neumann, Peter; Mahnke, Harald; Lamprecht, Josef; Horn, Dieter; Turznik, Gerhard; Kraus, Friedrich; Kaeppel, Hanshelmut; and Heim, Eduard, 4,666,948, Cl. 521-105.000.

Lampton, Robert D., Jr.; and Hopkins, Thomas M., II, to Dow Chemical Company, The. Process for the removal of H_2S from geothermal steam and the conversion to sulfur using ferric chelate and cationic polymer. 4,683,076, 7-28-87, Cl. 252-191.000.

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Lan, Charng-Ching. Pen with selective multi-color cores. 4,692,046, 9-8-87, Cl. 401-32.000.

Lancaster, Charles E. Methods and apparatus for massaging the spinal area and adjacent muscles. 4,699,126, 10-13-87, Cl. 128-52.000.

Lancaster, Dale B.; and DeMario, Edmund E., to Westinghouse Electric Corp. Moderator control apparatus for a nuclear reactor fuel assembly. 4,657,726, 4-14-87, Cl. 376-209.000.

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Lancaster, Gerald M.; and Kelley, David C., to Dow Chemical Company, The. Method of filling and sealing RF-sealable packaging containers. 4,660,354, 4-28-87, Cl. 53-469.000.

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Neill, Paul L.; Bryce, Kenneth L.; and Lancaster, Gerald M., 4,666,988, Cl. 525-196.000.

Lancaster, Patrick R.; and Lancaster, William G., to Lantech, Inc. Supply control rotating stretch wrapping apparatus and process. 4,676,048, 6-30-87, Cl. 53-399.000.

Lancaster, Patrick R.; and Lancaster, William G., to Lantech, Inc. Dual rotating stretch wrapping apparatus and process. 4,712,354, 12-15-87, Cl. 53-399.000.

Lancaster, Patrick R.; and Lancaster, William G., to Lantech, Inc. Power assisted roller-stretch apparatus and process. 4,712,686, 12-15-87, Cl. 206-597.000.

Lancaster, Robert L.; and Shaw, Raymond E., to Petro Products, Inc. Protective laminate. 4,678,702, 7-7-87, Cl. 428-252.000.

Lancaster, William G., to Lantech, Inc. Film lamination stretch wrapping. 4,691,497, 9-8-87, Cl. 53-399.000.

Lancaster, William G.: *See—*

Lancaster, Patrick R.; and Lancaster, William G., 4,676,048, Cl. 53-399.000.

Lancaster, Patrick R.; and Lancaster, William G., 4,712,354, Cl. 53-399.000.

Lancaster, Patrick R.; and Lancaster, William G., 4,712,686, Cl. 206-597.000.

Lance, Jacques; and Muller, Georges, to Commissariat a l'Energie Atomique. Method and apparatus for replacing a filter in a vessel 4,691,425, 9-8-87, Cl. 29-402.080.

Lance, Mark A., to W.A. Deutsher Proprietary Limited. Whistle. 4,709,651, 12-1-87, Cl. 116-137.00R.

Lance, Mark A.: *See—*

Laby, Ralph H.; and Lance, Mark A., 4,687,480, Cl. 604-891.000

Terrell, Kym A.; and Lance, Mark A., 4,662,040, Cl. 24-625.000.

Lance, Stanley. Clamp for connecting a fishing reel to a bow. 4,674,471, 6-23-87, Cl. 124-86.000.

Lance Wire and Cable, Inc.: *See—*

Boulanger, Edward, 4,681,386, Cl. 439-347.000.

Lancelot, Harry B., to Richmond Screw Anchor Co. Inc. Hoist coupling. 4,671,554, 6-9-87, Cl. 294-89.000.

Lancelot, Jean-Charles: *See—*

Arrang, Jean-Michel; Garbarg, Monique; Lancelot, Jean-Charles; Lecomte, Jeanne-Marie; Robba, Max-Fernand; and Schwartz, Jean-Charles, 4,707,487, Cl. 514-326.000.

Lancelot, Pierre, to Eurofours. Device for mounting a glass pane on an oven door. 4,638,788, 1-27-87, Cl. 126-198.000.

Lancerotto, Fabio: *See—*

Meroni, Roberto; Lant, Danny; Lancerotto, Fabio; and Gerin, Umberto, 4,651,515, Cl. 57-261.000.

Meroni, Roberto; Lant, Danny; Lancerotto, Fabio; and Gerin, Umberto, 4,682,466, Cl. 57-274.000.

Lanciano, Andrew P., to Medi-Tech, Inc. Drainage catheter. 4,643,720, 2-17-87, Cl. 604-95.000.

Lancraft, Inc.: *See—*

Kelly, John E.; Jones, Don C.; Tuck, Frederick R.; Zimmermann, William A.; and Clark, Kenneth R., 4,710,031, Cl. 356-440.000.

Lancucki, Peter G.: *See—*

Svirklys, Ferdinand M.; and Lancucki, Peter G., 4,655,156, Cl. 114-266.000.

Land, John M., to Cook Paint and Varnish Company. Hybrid photocure system. 4,694,029, 9-15-87, Cl. 522-8.000.

Land, Larry D.; and Wallin, Gary J. Fingerprint record system and apparatus for and method of recording fingerprints. 4,669,753, 6-2-87, Cl. 283-1.00A.

Land O'Lakes, Inc.: *See—*

Campbell, Rolf W. J., 4,648,506, Cl. 206-216.000.

Landa, Benzion, to Savin Corporation. Registering method. 4,678,177, 7-7-87, Cl. 271-238.000.

Landaas, Viggo. Combination gun with repeater mechanism. 4,679,486, 7-14-87, Cl. 89-126.000.

Landau, Boris; and Saines, Marius, to Ergomed. Squeeze-actuated syringe with position-selectable lock. 4,692,157, 9-8-87, Cl. 604-214.000.

Landau, Steven D.: *See—*

Pinnavaia, Thomas J.; Tzou, Ming S.; and Landau, Steven D., 4,665,045, Cl. 502-84.000.

Landau, Ulrich: *See—*

Wacker, Erich; Landau, Ulrich; Sander, Wilfried; and Schellmann, Klaus, 4,683,808, Cl. 92-208.000.

Lande, Ellen B.; and Silke, Deborah. Combination infant bed and toddler seat for shopping carts. 4,651,366, 3-24-87, Cl. 5-98.00R.

Lande, Goran; and Persson, Bendt, to Nitro Nobel AB; and AB Volvo. Means for splicing two pipes. 4,641,775, 2-10-87, Cl. 228-2.500.

Lande, Martin. Zipper necktie. 4,656,672, 4-14-87, Cl. 2-150.000.

Lande, Martin. Zipper necktie. 4,710,982, 12-8-87, Cl. 2-150.000.

Landecker, Peter B., to Hughes Aircraft Company. Surveying satellite incorporating star-sensing attitude determination subsystem 4,679,753, 7-14-87, Cl. 244-171.000.

Landell, Harper; and Woolworth, Richard G., to Woodstream Corporation. Lighted tackle box. 4,691,470, 9-8-87, Cl. 43-55.000.

Landen, Terry R.: *See—*

Tucker, James L.; Landen, Terry R.; and Schelby, Robert L., 4,710,115, Cl. 425-117.000.

Lander, Lynn H.: *See—*

Caswell, Michael L.; Corr, James J.; Dobrovolny, Mark S.; Lander, Lynn H.; Narath, William R.; and Theiler, Richard F., 4,695,395, Cl. 252-121.000.

Landerholm, Lars G., to AB Volvo. Transmission chain. 4,657,525, 4-14-87, Cl. 474-242.000.

Landers, Cheryl W.: *See—*

Herr, Richard E., Jr.; Kauffman, William J.; and Landers, Cheryl W., 4,699,820, Cl. 428-142.000.

Landers, Jerry L.; and Fischer, Gregory E., to Servend International, Inc. Ice and beverage dispensing apparatus and method with dual purpose liner. 4,641,763, 2-10-87, Cl. 222-129.100.

Landers, Jerry L., to Servend International, Inc. Ice dispenser with an upwardly inclined channeled ramp and two part auger. 4,694,661, 9-22-87, Cl. 62-344.000.

Landers, Samuel P., to Goodyear Tire & Rubber Company, The. Pneumatic tire therad with wide central groove and arcuate grooves. 4,700,762, 10-20-87, Cl. 152-209.00R.

Landes, James L., to Texas Instruments Incorporated. Programmable ultrasonic power supply. 4,696,425, 9-29-87, Cl. 228-1.100.

Landgraf, Gunter: *See—*

Wild, Wolfgang; Straub, Joachim; and Landgraf, Gunter, 4,713,512, Cl. 219-10.55E.

Landgraf, Heinrich. Gem faceting machine. 4,715,148, 12-29-87, Cl. 51-229.000.

Landgraf, Hermann; Schuss, Werner; and Schwarz, Werner, to Siemens Aktiengesellschaft. Ball catch coupling for releasably connecting two parts permitting relative rotation of the parts when connected. 4,647,081, 3-3-87, Cl. 285-304.000.

Landgraf, Hermann; Schuss, Werner; and Worschischek, Rainer-Karl, to Siemens Aktiengesellschaft. Dental handpiece arrangement. 4,681,540, 7-21-87, Cl. 433-126.000.

Landheer, Dolf: *See—*

McCallum, Robert S.; Plasschaert, Paul E.; Landheer, Dolf; and Gandhi, Hemant M., 4,679,060, Cl. 346-159.000.

Landi, Vincent R.; and Rowlands, Edwin R., to Rogers Corporation. Solderless connector technique. 4,647,125, 3-3-87, Cl. 339-17.00F.

Landi, Vincent R.; and Fitts, Bruce B., to Rogers Corporation. Heat stable phenolic composition. 4,659,758, 4-21-87, Cl. 524-35.000.

Landice Products, Inc.: *See—*

Taitel, Charles M.; and Taitel, Janice B., 4,659,074, Cl. 272-69.000.

Landin, Allen R.: *See—*

Wang, Jin S.; Lakin, Kenneth M.; and Landin, Allen R., 4,640,756, Cl. 204-192.180.

Landin, Heather V.: *See—*

Grant, Richard J.; Johnson, Gilbert C.; and Landin, Heather V., 4,654,233, Cl. 427-379.000.

Landin, Pedro. Display element. 4,693,025, 9-15-87, Cl. 40-326.000.

Landine, Robert C.: *See—*

De Garie, Claude; Cocci, Albert; and Landine, Robert C., 4,672,691, Cl. 4-499.000

Landingham, Richard L.; and Shell, Thomas E., to United States of America, Energy. Steel bonded dense silicon nitride compositions and method for their fabrication. 4,703,884, 11-3-87, Cl. 228-122.000.

Landingham, Richard L.; and Shell, Thomas E., to United States of America, Energy. Steel bonded dense silicon nitride compositions and method for their fabrication. 4,704,338, 11-3-87, Cl. 428-627.000.

Landini, Bruce J.: *See—*

Kozlik, Tony J., and Landini, Bruce J., 4,680,581, Cl. 340-825.060.

Landis, Abraham L.; and Naselow, Arthur B., to Hughes Aircraft Company. Method of preparing high molecular weight polyimide product and use. 4,645,824, 2-24-87, Cl. 528-353.000.

Landis, Abraham L.; and Naselow, Arthur B., to Hughes Aircraft Company. Solar cell coated with high molecular weight polyimide. 4,661,650, 4-28-87, Cl. 136-256.000.

Landis, David E.: *See—*

Tanaka, Aki; and Landis, David E., 4,685,736, Cl. 297-366.000.

Landis, Donald; and Fabricius, John H., to BTU Engineering Corporation. Modular, self-diagnostic mass-flow controller and system. 4,672,997, 6-16-87, Cl. 137-554.000.

Landis, Donald A.: *See—*

Goulding, Frederick S.; and Landis, Donald A., 4,658,216, Cl. 328-109.000.

Landis, Donald E.: *See—*

Wills, David C.; Landis, Donald E.; and Lyons, Dale R., 4,636,781, Cl. 340-700.000.

Landis, Donald H., to Epic Metals Corporation. Concrete slab-beam form system for composite metal deck concrete construction. 4,685,264, 8-11-87, Cl. 52-252.000.

Landis, Dwight A. Liquid water content analyzer. 4,708,013, 11-24-87, Cl. 73-23.100.

Landis, James K.: *See—*

Bass, Vance R.; Bonebrake, Veronica A.; Garrison, David A.; Landis, James K.; Neff, Mary S.; Urquhart, Robert J., and Williams, Susan C., 4,672,571, Cl. 364-900.000.

Bass, Vance R.; Bonebrake, Veronica A.; Garrison, David A.; Landis, James K.; Neff, Mary S.; Urquhart, Robert J.; and Williams, Susan C., 4,701,851, Cl. 364-419.000.

Landis, John M.: *See—*

Douty, George H.; and Landis, John M., 4,678,121, Cl. 439-610.000.

Landis, Julie K.: *See—*

Huebner, David J.; and Landis, Julie K., 4,661,556, Cl. 524-745.000.

Landis, Peter: *See—*

Nowak, Claude; and Landis, Peter, 4,644,768, Cl. 70-364.00R.

Landis, Phillip S.: *See—*

Horodysky, Andrew G.; and Landis, Phillip S., 4,704,218, Cl. 252-46.600.

Landis, Richard C.; Griffin, Edward L.; and Bahl, Inder G., to ITT Corporation. Coaxial shielded directional microwave coupler. 4,647,878, 3-3-87, Cl. 333-115.000.

Landis, Richard C., to ITT Corporation. Miniature microwave guide. 4,647,882, 3-3-87, Cl. 333-239.000.

Landis, Richard C., to ITT Corporation. Micro-coaxial substrate. 4,673,904, 6-16-87, Cl. 333-238.000.

Landis, Richard C., to ITT Gallium Arsenide Technology Center, a division of ITT Corporation. Jumper for a semiconductor assembly. 4,709,300, 11-24-87, Cl. 361-398.000.

Landis, Robert; and Kassay, Joseph E., to Ackrad Laboratories, Inc. Breath activated medication spray. 4,648,393, 3-10-87, Cl. 128-200.230.

Landis, Robert. Needle container and method for preventing accidental contact with a needle. 4,664,259, 5-12-87, Cl. 206-365.000.

Landis, Terry L.: *See—*

Conero, Ronald S.; and Landis, Terry L., 4,680,977, Cl. 73-861.410.

Martin, Stephen A.; Landis, Terry L.; and Bizzigotti, Richard A., 4,668,216, Cl. 604-30.000.

Landis, Timothy J. Visor-type mask for dentists. 4,701,965, 10-27-87, Cl. 2-428.000.

Landmann, Wolf S.: *See—*

Brosh, Amnon; and Landmann, Wolf S., 4,644,570, Cl. 377-17.000.

Landmeier, Waldo L., to Sanders Associates, Inc. X-Y position sensor. 4,659,874, 4-21-87, Cl. 178-19.000.

Landoll, Leonard: *See—*

Purvis, Gene; Phelps, Russell; Dupler, Tim; Landoll, Patrick; and Landoll, Leonard, 4,678,010, Cl. 138-31.000.

Landoll, Patrick: *See—*

Purvis, Gene; Phelps, Russell; Dupler, Tim; Landoll, Patrick; and Landoll, Leonard, 4,678,010, Cl. 138-31.000.

Landolt, George R.: *See—*

Degnan, Thomas F., Jr.; and Landolt, George R., 4,683,052, Cl. 208-111.000.

Landon, James K.: *See—*

Hills, Stanley; and Landon, James K., 4,655,884, Cl. 204-321.000.

Landouar, Pierre: *See—*

Magarino, Jose; Szydlo, Nicolas; Hareng, Michel; and Landouar, Pierre, 4,643,527, Cl. 350-333.000.

Landow, Walt: *See—*

Kane, Hugh; and Landow, Walt, 4,663,502, Cl. 200-5.00R.

Landphair, Donald K., to Deere & Company. Radial engagement drive coupler. 4,690,260, 9-1-87, Cl. 192-71.000.

Landram, Mark O., to United States of America, Air Force. Cryogenic glass-to-metal seal. 4,649,085, 3-10-87, Cl. 428-620.000.

Landrau, Felix A.: *See—*

Eckenhoff, James B.; Cortese, Richard; and Landrau, Felix A., 4,684,524, Cl. 424-469.000.

Eckenhoff, James B.; Cortese, Richard; and Landrau, Felix A., 4,692,336, Cl. 424-468.000.

Hamel, L. G.; Landrau, Felix A.; Wong, Patrick S. L.; and Guittard, George V., 4,662,880, Cl. 604-892.000.

Landre, John K.; and Hoogland, Jan. Variable magnification endoscope. 4,664,486, 5-12-87, Cl. 350-414.000.

Landre, John K.; and Hoogland, Jan. Variable magnification endoscope. 4,704,007, 11-3-87, Cl. 350-414.000.

Landreneau, Michael D. Catheter assembly having balloon extended flow path. 4,681,564, 7-21-87, Cl. 604-97.000.

Landreth, Ronald R., to Inland Steel Company. Method for suppressing fuming in molten steel. 4,664,703, 5-12-87, Cl. 75-96.000.

Landrevie, Bernard: *See—*

Godfrin, Jean-Philippe; Landrevie, Bernard; and Escache, Gerard, 4,691,633, Cl. 102-202.000.

Landrevie, Jacques, to Societe Nouvelle Rockall France S.A. Electrical connection for electronic circuits. 4,715,828, 12-29-87, Cl. 439-660.000.

Landriault, L. Steven: *See—*

Ortloff, Donald J.; and Landriault, L. Steven, 4,688,832, Cl. 285-175.000.

Landron, Jacques; and Pichard, Christian, to La Telemecanique Electrique. Protective switching apparatus. 4,677,406, 6-30-87, Cl. 335-35.000.

Landrum, Christy B., Jr.: *See—*

Layh, Ricky L.; and Landrum, Christy B., Jr., 4,633,602, Cl. 37-195.000.

Landrum, Clyde L.: *See—*

Alling, Richard L.; Shepard, Richard W.; Landrum, Clyde L.; Tofield, Robert H.; and Podhajecki, Stephen T., 4,677,720, Cl. 29-148.40C.

Landrum, Ralph A., Jr., to Western Atlas International, Inc. Simultaneous performance of multiple seismic vibratory surveys. 4,715,020, 12-22-87, Cl. 367-38.000.

Landry, Gary L. High pressure hose gripper. 4,655,492, 4-7-87, Cl. 294-15.000.

Landry, James F.; Croudace, Michael C.; On, Harry P., Jr.; and Shen, Sidney Y., to Union Oil Company of California. Lubricating oil compositions containing organometallic additives. 4,655,949, 4-7-87, Cl. 252-51.50R.

Landry, John M.; and Ravenna, Paul L. Nautical chart for piloting. 4,687,230, 8-18-87, Cl. 283-34.000.

Landry, Louis G.; and Nunez, Fabian, to Essex Group, Inc. Highly flexible silicone rubber inorganic sleeving. 4,704,335, 11-3-87, Cl. 428-36.000.

Landry, Michel: *See—*

Jeanjean, Robert; Demissy, Daniel; Saint-Jean, Guy; and Landry, Michel, 4,711,978, Cl. 200-148.00A.

Landry, Norman R.: *See—*

Reese, Robert M.; and Landry, Norman R., 4,678,863, Cl. 174-35.0GC.

Landry, Richard E.; and Reed, Joel G., to GTE Products Corporation. Triple pass ceramic cross-flow heat recuperator. 4,674,568, 6-23-87, Cl. 165-166.000.

Landry, Richard E.; and Reed, Joel G., to GTE Products Corporation. Triple pass ceramic cross-flow heat recuperator. 4,679,623, 7-14-87, Cl. 165-166.000.

Lands, William E. M.; Kulmacz, Richard J.; Marshall, Paul J.; and Warso, Michael A. Quantification of hydroperoxides using prostaglandin H synthase. 4,675,281, 6-23-87, Cl. 435-4.000.

Landsberger, Albert. Therapeutic agent for the use in cancer treatment. 4,710,493, 12-1-87, Cl. 514-56.000.

Landsberger, David; and Broeils, John, to Maddak, Inc. Battery operated eyewash system. 4,641,384, 2-10-87, Cl. 4-620.000.

Landsberger, Kurt. Raised superimposed toilet seat and bidet-like device in combination. 4,638,514, 1-27-87, Cl. 4-239.000.

Landsberger, Samuel E.; and Sheridan, Thomas B., to Massachusetts Institute of Technology. Parallel link manipulators. 4,666,362, 5-19-87, Cl. 414-735.000.

Landshuter Baueisenbiegerei GmbH: *See—*

Hasak, Wilhelm, 4,658,867, Cl. 140-112.000.

Landsiedel, Horst: *See—*

Plum, Hans; and Landsiedel, Horst, 4,684,663, Cl. 514-493.000.

Landsman, Douglas A.: *See—*

Luczak, Francis J.; and Landsman, Douglas A., 4,677,092, Cl. 502-185.000.

Luczak, Francis J.; and Landsman, Douglas A., 4,711,829, Cl. 429-44.000.

Landstingens Inkopscentral LIC, Ekonomisk Forening: *See—*

Feldt, Mats, 4,682,376, Cl. 5-60.000.

Hagglund, Lars, 4,696,780, Cl. 264-222.000.

Hjerten, Wilhelm E. S.; and Wadstrom, Torkel M., 4,645,757, Cl. 514-54.000.

Palaghias, Georgios, 4,684,347, Cl. 433-228.100.

Timerdahl, Ake; and Angseryd, Jan, 4,648,839, Cl. 433-77.000.

Westin, Johnny; Karlsson, Jan; and Abelson, Perove, 4,546,726, Cl. 128-80.00H.

Landstorfer, Friedrich: *See—*

Faller, Rainer; and Landstorfer, Friedrich, 4,665,369, Cl. 324-326.000.

Landt, Richard C., to SPS Technologies, Inc. Vibration resistant fasteners. 4,657,459, 4-14-87, Cl. 411-188.000.

Landua, Werner; and Muller, Jurgen, to Adolf Hottinger Giesserei und Maschinenbau GmbH. Device for the dumping of shells. 4,665,967, 5-19-87, Cl. 164-165.000.

Landua, Werner: *See—*

Rommel, Reiner; and Landua, Werner, 4,711,292, Cl. 164-200.000.

Landwehr, Gunter; and Meyer, Horst, to Kochs Adler AG. Sewing machine for producing an edge-parallel seam. 4,664,045, 5-12-87, Cl. 112-153.000.

Landwehr, Ulrich M. Acquiring measurements of an object by means of photography. 4,639,107, 1-27-87, Cl. 354-77.000.

Landwehrkamp, Hans, to Schubert & Salzer. Open-end spinning rotor and process for producing same. 4,663,930, 5-12-87, Cl. 57-416.000.

Landwehrkamp, Hans, to Schubert & Salzer. Drum for carding machines. 4,698,879, 10-13-87, Cl. 19-98.000.

Landwer, Jonathan C.: *See—*

Jakacki, Edwin J.; Ogle, Larry G.; Landwer, Jonathan C.; and Andersen, James C., 4,661,161, Cl. 106-112.000.

Lane, Bennie L. Universal fascia assembly for securing a membrane to a roof. 4,709,518, 12-1-87, Cl. 52-94.000.

Lade, Bennie L.: *See—*

Taylor, William T.; and Lane, Bennie L., 4,665,667, Cl. 52-96.000.

Lane, Bruce B.; Westerkamp, Douglas F.; and Clifford, Peter P., to General Electric Company. Integral generator housing and base for a turbine generator. 4,694,190, 9-15-87, Cl. 290-52.000.

Lane, Darryl; Barr, B. G.; Dutton, Mike; Frain, Mike; Frechette, Simon; Hummel, Keith; Majerle, John; Majerle, Joseph; Rogers, Steve; Unger, Mark; and Umholtz, Robert, to University of Kansas Center for Research. Fixture arrangement for machine tool work tables. 4,664,366, 5-12-87, Cl. 269-303.000.

Lane, David, to AMP Incorporated. Single communication line interconnect. 4,662,701, 5-5-87, Cl. 339-176.00M.

Lane, Donald R.: *See—*

Gutmann, Paul F.; and Lane, Donald R., 4,689,083, Cl. 106-88.000.

Lane, Donald W.; Larkins, Thomas H., Jr.; and Rule, Mark, to Eastman Kodak Company. Carbonylation process for the production of aromatic acids or esters. 4,654,436, 3-31-87, Cl. 560-80.000.

Lane, Donald W.: *See—*

Rule, Mark; Larkins, Thomas H., Jr.; Lane, Donald W.; and Steinmetz, Guy R., 4,649,216, Cl. 562-406.000.

Lane, Elvin. Heat unit recycler. 4,705,213, 11-10-87, Cl. 237-7.000.

Lane, Gary S.: *See—*

Brown, James R.; Lane, Gary S.; and Larson, Wallace H., 4,682,530, Cl. 89-1.550.

Lane, George A.; and Rossow, Harold E., to Dow Chemical Company, The. Reversible phase change composition for storing energy. 4,637,888, 1-20-87, Cl. 252-70.000.

Lane, George A.; and Rossow, Harold E., to Dow Chemical Company, The. Hydrated calcium bromide reversible phase change composition. 4,690,769, 9-1-87, Cl. 252-70.000.

Lane, James K. Airtrap power generator. 4,660,379, 4-28-87, Cl. 60-398.000.

Lane, James W.; Parikshak, Davendra D.; and Kaplan, Carl, to Plough, Inc. Skin cooling method. 4,661,476, 4-28-87, Cl. 514-60.000.

Lane, John E.: *See—*

Sumner, C. Thom; and Lane, John E., 4,665,686, Cl. 57-264.000.

Lane, Keith A.: *See—*

O'Connor, Roger J.; and Lane, Keith A., 4,677,617, Cl. 370-100.000.

Lane, Kenneth R.: *See—*

Sinclair, Stuart W.; and Lane, Kenneth R., 4,655,672, Cl. 414-661.000.

Lane, Kerry S.; and Moore, Derek V., to Levitt Safety Limited. Nicad battery charger. 4,692,682, 9-8-87, Cl. 320-35.000.

Lane, Kimberley J.; and Traver, Frank J., to General Electric Company. Novel aminofunctional polysiloxane emulsions for treating textiles. 4,705,704, 11-10-87, Cl. 427-389.900.

Lane, Leslie A.; Lybeck, Lynn V.; Perloff, David S.; and Mallory, Chester L., to Prometrix Corporation. Process control interface system for designer and operator. 4,679,137, 7-7-87, Cl. 364-188.000.

Lane, Martin, to De La Rue Systems Limited. Sheet feeding apparatus. 4,684,119, 8-4-87, Cl. 271-4.000.

Lane, Martin: *See—*
  Croset, Michael R.; and Lane, Martin, 4,650,991, Cl. 250-223.00R.
  Croset, Michel R.; Lane, Martin; Winchester, Roy E.; and Worsley, David R., 4,707,598, Cl. 250-223.00R.

Lane, Maxwell Victor: *See—*
  Lewellin, Richard L., 4,678,822, Cl. 524-12.000.

Lane, Michael L.; and Whitney, Lowell, to Quoin Enterprises. Foldable garment bag with carry straps. 4,655,343, 4-7-87, Cl. 206-287.100.

Lane, Parley C., Jr.: *See—*
  Minchak, Robert J.; and Lane, Parley C., Jr., 4,701,510, Cl. 526-283.000.

Lane, Philip S., to SpaceLabs, Inc. Apparatus and method for impedance pneumography. 4,708,146, 11-24-87, Cl. 128-723.000.

Lane, Robert C.; and Lee, Joseph M. Linear release ice machine and method. 4,688,386, 8-25-87, Cl. 62-72.000.

Lane, Robert C.; and Lee, Joseph M. Rotary release ice machine and method. 4,694,656, 9-22-87, Cl. 62-72.000.

Lane, Robert H., to Oxce Fuel Company. Coal-aqueous slurry. 4,645,514, 2-24-87, Cl. 44-51.000.

Lane, Roger M.; Hull, Derek M. C.; Saxton, Charles A.; and van der Ouderaa, Franciscus J. G., to Lever Brothers Company. Dentifrice compositions. 4,656,031, 4-7-87, Cl. 424-49.000.

Lane, Wendell C., Jr., to Dana Corporation. Multiple function control stalk including pivotable headlight dimmer switch. 4,640,997, 2-3-87, Cl. 200-61.540.

Lane, Wendell C., Jr., to Dana Corporation. Switch assembly with multiple mounting means. 4,667,067, 5-19-87, Cl. 200-61.540.

Lane, Wendell C., Jr., to Dana Corporation. Multi-clevis cable connector. 4,700,828, 10-20-87, Cl. 206-223.000.

Lane, William C.: *See—*
  Prawdzik, John; Maxim, Norman F.; Lane, William C.; and Antonio, Christo, 4,689,102, Cl. 156-235.000.

Lane, William L.; and Lewis, Donald L. Rockbolt and installer wand. 4,655,643, 4-7-87, Cl. 405-260.000.

Lane, William L.; and Lewis, Donald L. Binder-injecting rockbolt. 4,655,644, 4-7-87, Cl. 405-260.000.

Laner, Kai: *See—*
  Tammisalo, Erkki; Kanerva, Heikki; Aarnio, Jaakko; Wederhorn, Markku; and Laner, Kai, 4,646,335, Cl. 378-38.000.
  Tammisalo, Erkki; Kanerva, Heikki; Aarnio, Jaakko; Wederhorn, Markku; and Laner, Kai, 4,683,581, Cl. 378-38.000.

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  Furmanek, Robert A.; Mukherjee, Jyoti P.; and Lanese, Pasquale J., 4,684,266, Cl. 384-37.000.
  Furmanek, Robert A.; Mukherjee, Jyoti P.; and Lanese, Pasquale J., 4,706,352, Cl. 29-149.50R.

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Lanfranconi, Gianmario: *See—*
  Marin, Carlo; Lanfranconi, Gianmario; and Borroni, Andrea, 4,698,009, Cl. 425-196.000.
  Parmigiani, Bruno; and Lanfranconi, Gianmario, 4,698,458, Cl. 174-73.00R.

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Lang, Aage, to Clean-Tex A/S. Method of providing nap map or carpet of washable type having increased liquid removal therefrom during washing thereof. 4,707,895, 11-24-87, Cl. 28-107.000.

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  Boedecker, Kay; Scheurl, Robert; and Strasser, Hans-Erwin, 4,655,690, Cl. 417-53.000.

Lang, Armin; and Knodler, Helmut, to Zahnradfabrik Friedrichshafen, AG. Rack and pinion auxiliary power steering. 4,699,231, 10-13-87, Cl. 180-148.000.

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  Andra, Bryan K.; Funk, Kent D.; Lang, Clyde J.; and Todd, Philip, 4,686,820, Cl. 56-341.000.

Lang, David J., to Sundstrand Corporation. Unidirectional high gain brake stop. 4,667,779, 5-26-87, Cl. 188-71.200.

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  Chun, Kil Whan; Lang, David J.; and Santos, Edward, 4,655,780, Cl. 8-108.100.
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  Durtschi, William G.; Dschida, Linda M.; and Lang, David J., 4,688,469, Cl. 91-388.000.

Lang, David M.; and Lewitzke, Richard W., to Becor Western Inc. Casing tong assembly. 4,686,873, 8-18-87, Cl. 81-57.350.

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Lang, Frederic A. Highway pavement. 4,653,956, 3-31-87, Cl. 404-28.000.

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  Moench, Julius; Rentzsch, Heinz; Lang, Georg; and Mueller, Herbert, 4,654,243, Cl. 428-46.000.

Lang, Gerard; Leduc, Madeleine; and Malaval, Alain, to L'Oreal. 3-benzylidene-camphors, process for their preparation and their use in protection against UV rays. 4,654,434, 3-31-87, Cl. 560-51.000.

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Lang, Gerard: *See—*
  Bouillon, Claude; Lang, Gerard; and Laugier, Jean-Pierre, 4,671,956, Cl. 424-59.000.
  Grollier, Jean F.; Lang, Gerard; Forestier, Serge; and Rosenbaum, Georges, 4,656,029, Cl. 424-47.000.
  Jacquet, Bernard; Lang, Gerard; Malaval, Alain; Forestier, Serge; and Le Trung, Do, 4,702,906, Cl. 424-70.000.
  Junino, Alex; Lang, Gerard; and Jeanminet, Ginette, 4,666,453, Cl. 8-415.000.
  Junino, Alex; Lang, Gerard; Andrean, Herve; and Cotteret, Jean, 4,692,166, Cl. 8-410.000.
  Shroot, Braham; Lang, Gerard; Maignan, Jean; and Colin, Michel, 4,654,354, Cl. 514-372.000.
  Shroot, Braham; Lang, Gerard; and Maignan, Jean, 4,677,123, Cl. 514-680.000.
  Shroot, Braham; Lang, Gerard; and Maignan, Jean, 4,696,941, Cl. 514-423.000.

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Lang, Hans-Jochen: *See—*
  Englert, Heinrich C.; Lang, Hans-Jochen; Mania, Dieter; and Bickel, Martin, 4,661,636, Cl. 568-31.000.

Lang, Hans-Jorg, to Ludwig Schwerdtel GmbH. Dosing devices for viscous materials particularly highly viscous materials. 4,693,397, 9-15-87, Cl. 222-137.000.

Lang, Jack: *See—*
  Williams, John E. F.; and Lang, Jack, 4,693,201, Cl. 114-67.00R.

Lang, James J., to Campbell, Joseph J.; and Equivest, Inc. Method for improving the utilization of polyelectrolytes in dewatering aqueous suspensions. 4,710,304, 12-1-87, Cl. 210-734.000.

Lang, Jerry M.: *See—*
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Lang, Joseph H., to Xerox Corporation. Charge erase device with flare light control. 4,716,436, 12-29-87, Cl. 355-3.0CH.

Lang, Kenneth, to Teledyne Industries, Inc. Water filter apparatus. 4,686,037, 8-11-87, Cl. 210-221.200.

Lang, Keven W.; Eberhardt, George M.; Entenmann, William J.; and Shipman, Frank P., to Entemann's Inc. Glaze composition for bakery products. 4,645,674, 2-24-87, Cl. 426-94.000.

Lang, Ko C. Column packing. 4,668,442, 5-26-87, Cl. 261-94.000.

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Lang, Manfred, to Spinner GmbH, Elektotechnische Fabrik. Waveguide. 4,661,787, 4-28-87, Cl. 333-22.00R.

Lang, Marc, to Ciba-Geigy Corporation. Aminomethyl penem compounds. 4,656,165, 4-7-87, Cl. 514-192.000.

Lang, Marc: *See—*
  Gosteli, Jacques; Ernest, Ivan; Lang, Marc; and Woodward, Robert B., 4,692,442, Cl. 514-195.000.

Lang, Michael: *See—*
  Mahoney, Thomas J.; and Lang, Michael, 4,698,498, Cl. 250-234.000.

Lang, Paul W.; and Gribshaw, Franklin C., to Jensen, C. Allen. Cigarette. 4,679,574, 7-14-87, Cl. 131-365.000.

Lang, Richard D.; and Napolitano, James E., to Carrier Corporation. Double wall condenser orifice. 4,633,680, 1-6-87, Cl. 62-507.000.

Lang, Robert J.: *See—*
  Salzman, Joseph; Lang, Robert J.; and Yariv, Amnon, 4,674,096, Cl. 372-50.000.

Lang, Robert W., to Ciba-Geigy Corporation. Process for the preparation of hemiaminals, and the use thereof. 4,692,536, 9-8-87, Cl. 556-413.000.

Lang, Robert W.: *See—*
  Beck, Andreas; Sallmann, Alfred; Lang, Robert W.; and Wenk, Paul, 4,670,604, Cl. 568-337.000.

Martin, Pierre; and Lang, Robert W., 4,705,801, Cl. 514-423.000.

Lang, Roger J., to Allied Corporation. Electrical connector assembly and method for terminating cable. 4,648,677, 3-10-87, Cl. 339-99.00R.

Lang, Steven C., to General Motors Corporation. Molding attaching clip. 4,698,882, 10-13-87, Cl. 24-289.000.

Lang, Theodore B., to Kimberly-Clark Corporation. Method for forming discrete particulate areas in a composite article. 4,715,918, 12-29-87, Cl. 156-273.100.

Lang, Theodore B.: *See—*

McFarland, Timothy M.; and Lang, Theodore B., 4,655,757, Cl. 604-366.000.

O'Connor, James J.; Lang, Theodore B.; and Miller, Peggy H., 4,650,481, Cl. 604-380.000.

Lang, Walter; Mueller, Gerhard; and Weimer, Eugen, to Carl-Zeiss-Stiftung. Apparatus for dose measurement upon photocoagulation in the fundus of the eye. 4,644,948, 2-24-87, Cl. 128-303.100.

Lang, Warren R., to Motorola, Inc. Uniform emission backlight. 4,714,983, 12-22-87, Cl. 362-27.000.

Lang, Werner; and Kretschmer, Jurgen, to Daimler-Benz Aktiengesellschaft. Valve spring retainer/locking assembly. 4,653,726, 3-31-87, Cl. 251-337.000.

Langdon, Ian: *See—*

Gray, Michael J.; Langdon, Ian; and Woods, Barry J., 4,661,811, Cl. 340-744.000.

Langdon, Michael J., to Xerox Corporation. Simultaneous transfer and fusing in electrophotography. 4,708,460, 11 24-87, Cl. 355-10.000.

Lange, Al E. Roll-up screen door. 4,651,797, 3-24-87, Cl. 160-290.00F.

Lange, Arno; Kiehs, Karl; and Adolphi, Heinrich, to BASF Aktiengesellschaft. N-benzoyl-N'-phenylureas and their use for insect control. 4,699,923, 10-13-87, Cl. 514-535.000.

Lange, Arthur F.: *See—*

Clark, Alan T.; Ibrahim, Hadi; and Lange, Arthur F., 4,635,255, Cl. 370-110.100.

Lange, Bernhard: *See—*

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Lange, Catherine: *See—*

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Lange, Eckhard: *See—*

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Lange, Francois, to Alcatel Thomson Gigadisc, SA. Protected optical disk of welded construction. 4,644,520, 2-17-87, Cl. 369-284.000.

Lange, Fred F., to Rockwell International Corporation. Low thermal conductivity Si_3N_4/ZrO_2 composite ceramics. 4,640,902, 2-3-87, Cl. 501-97.000.

Lange, Frederick R., and Rosenbaum, Walter S., to International Business Machines Corporation. System for detecting and correcting contextual errors in a text processing system. 4,674,065, 6-16-87, Cl. 364-900.000.

Lange, Fredric A., to Interlock Structures International, Inc. Connecting apparatus. 4,637,193, 1-20-87, Cl. 52-648.000.

Lange, Fritz; and Meffert, Alfred, to Henkel Kommanditgesellschaft auf Aktien. Process for preparing tertiary ether amines. 4,650,865, 3-17-87, Cl. 544-174.000.

Lange, Gerd, to Fixtures Manufacturing Corporation. Chair back arrangement. 4,639,042, 1-27-87, Cl. 297-444.000.

Lange, Gerd, to Fixtures Manufacturing Corporation. Chair and method of making same. 4,676,553, 6-30-87, Cl. 297-446.000.

Lange, Gerhard, to Wafios Maschinenfabrik GmbH & Co. KG. Process and apparatus for the production of oval chain links from round wire. 4,680,926, 7-21-87, Cl. 59-27.000.

Lange, Gerhard; and Weil, Erich, to Siemens Aktiengesellschaft. Filling compound for optical waveguide buffer and/or optical waveguide cables. 4,705,571, 11-10-87, Cl. 106-287.100.

Lange, Gerhard: *See—*

Rudy, Willi; and Lange, Gerhard, 4,694,644, Cl. 59-27.000.

Watzke, Franz; Lange, Gerhard; and Boy, Juergen, 4,665,337, Cl. 313-231.110.

Lange, Gottfried, to Siemens Aktiengesellschaft. X-ray image converter. 4,691,232, 9-1-87, Cl. 358-111.000.

Lange, Heinz: *See—*

Bahrle, Peter; and Lange, Heinz, 4,689,680, Cl. 358-172.000.

Lange International S.A.: *See—*

Arieh, Simon; and Courvoisier, Guy, 4,660,302, Cl. 36-117.000.

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Courvoisier, Guy; and Arieh, Simon, 4,660,303, Cl. 36-119.000.

Courvoisier, Guy; and Arieh, Simon, 4,665,308, Cl. 219-548.000.

Marxer, Herbert, 4,706,393, Cl. 36-117.000.

Salas, Joseph; and Boix-Vives, Laurent, 4,693,020, Cl. 36-117.000.

Lange, Joachim: *See—*

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Lange, Jurgen, to VDO Adolf Schindling AG. Electrically actuatable fuel-injection valve for internal combustion engines. 4,697,738, 10-6-87, Cl. 239-102.200.

Lange, Jurgen, to VDO Adolf Schindling AG. Linear motor. 4,709,183, 11-24-87, Cl. 310-328.000.

Lange, Jurgen, to VDO Adolf Schindling AG. Electrically actuatable fuel-injection valve for internal combustion engines. 4,711,396, 12-8-87, Cl. 239-102.200.

Lange, Jurgen: *See—*

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Lange, Kenneth J.: *See—*

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Lange, Ludwig: *See—*

Bittner, Friedrich; Hinrichs, Walter; Hovestadt, Herbert; Lange, Ludwig; and Splett, Erich, 4,640,832, Cl. 423-562.000.

Lange, Peter M.; and Rauenbusch, Erich, to Bayer Aktiengesellschaft. Polymers for the purification of acarbose. 4,666,776, 5-19-87, Cl. 428-402.000.

Lange, Peter M.: *See—*

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Oeckl, Siegfried; Mitschker, Alfred; Lange, Peter M.; and Martinola, Friedrich, 4,695,556, Cl. 502-11.000.

Wolff, Joachim; Koll, Jochen; Wolf, Karlheinz; Klipper, Reinhold M.; and Lange, Peter M., 4,702,744, Cl. 8-527.000.

Lange, Philip E., to Aero-Metric General, Inc. Circuit status indicating device with improved switch on/off detection capability. 4,691,143, 9-1-87, Cl. 315-133.000.

Lange, Richard M., to Lubrizol Corporation, The. Norbornyl dimer ester and polyester additives for lubricants and fuels. 4,707,301, 11-17-87, Cl. 252-46.600.

Lange, Ronald W.; Reynolds, David F.; Lolley, David R.; and Freeman, Gary L., to Deere & Company. Tool for installing an eccentric locking collar on a bearing. 4,713,881, 12-22-87, Cl. 29-724.000.

Lange, Russell C.; and Scheuerlein, Roy E., to International Business Machines Corporation. High density one device memory cell arrays. 4,651,183, 3-17-87, Cl. 357-23.600.

Lange, Russell C.; and Wang, Wen-Yuan, to International Business Machines Corporation. High speed merged charge memory. 4,652,898, 3-24-87, Cl. 357-23.600.

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Lange, Thomas R., to Texas Instruments Incorporated. Wide band automatic gain control with limiting amplifiers. 4,665,560, 5-12-87, Cl. 455-249.000.

Lange, Werner; Hohl, Frank; and Szablikowski, Klaus, to Wolff Walsrode Aktiengesellschaft. Water-soluble polymers and their use as auxiliaries for building materials. 4,703,087, 10-27-87, Cl. 525-161.000.

Lange, Wolfgang, to Akzo N.V. Microporous powder form polylactides. 4,645,664, 2-24-87, Cl. 424-78.000.

Langejan, Hendrik, to IHC Holland N.V. Floating hopper barge with discharging trap doors in the bottom. 4,644,888, 2-24-87, Cl. 114-27.000.

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Langen, Christianus P.; and Langen, Johannes C., to Langen Research B.V. De-boning machine. 4,663,804, 5-12-87, Cl. 17-1.00G.

Langen, Christianus P.: *See—*

Langen, Johannes C.; and Langen, Christianus P., 4,649,600, Cl. 17-46.000.

Langen, Hans; Schutz, Heinz-Dieter; Wernicke, Ubbo; Himmelmann, Wolfgang; and Renner, Gunter. Photographic recording material and a process for the production of photographic images. 4,710,454, 12-1-87, Cl. 430-546.000.

Langen, Herbert; and Kenner, Erich, to J. Eberspacher. Combustion chamber for heating devices. 4,650,415, 3-17-87, Cl. 431-115.000.

Langen, Herbert; and Kenner, Erich, to J. Eberspacher. Combustion chamber for heating devices. 4,669,973, 6-2-87, Cl. 431-115.000.

Langen, Hermann J., to Machinefabriek Lan B.V. Device for sterilizing holders containing products. 4,636,366, 1-13-87, Cl. 422-297.000.

Langen, Jacobus J., to H. J. Langen & Sons Limited. Meat tenderizing needle. 4,680,832, 7-21-87, Cl. 17-25.000.

Langen, Johannes C.; and Langen, Christianus P. Boning device and method. 4,649,600, 3-17-87, Cl. 17-46.000.

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Langen, Manfred; Temburg, Konrad; and Teichmann, Paul, to Trutzschler GmbH & Co. KG. Apparatus for can changing. 4,683,619, 8-4-87, Cl. 19-159.00A.

Langen, Manfred; and Leifeld, Ferdinand, to Trutzschler GmbH & Co. KG. Apparatus for can changing. 4,688,300, 8-25-87, Cl. 19-159.00A.

Langen, Manfred, to W. Schlafhorst & Co. Textile machine for producing cross-wound bobbins. 4,690,342, 9-1-87, Cl. 242-35.50A.

Langen, Manfred, to W. Schlafhorst & Co. Method and device for exchanging empty cans with cans filled with sliver. 4,694,539, 9-22-87, Cl. 19-159.00A.

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Langen, Marinus J. M.; and Guttinger, Peter, to H. J. Langen & Sons Limited. Carton loading machine. 4,642,975, 2-17-87, Cl. 53-564.000.

Langen, Marinus J. M.; and Guttinger, Peter, to H. J. Langen & Sons Limited. Load compacting mechanism for carton loading machine. 4,688,372, 8-25-87, Cl. 53-529.000.

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Langenbeck, Keith A.; and Holdeman, David A., to Langenbeck, Keith A. Automated system and method for transporting and sorting articles. 4,711,357, 12-8-87, Cl. 209-565.000.

Langenberg, Anthony J.; Chu, Pak-Jong; Moss, John S.; and Collar, Geoffrey A., to Northern Telecom Limited. Telephone hook switch with elastomeric contact member. 4,709,389, 11-24-87, Cl. 379-424.000.

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Franz, Hans-Joachim; Hommola, Jurgen; Langensiepen, Bernd; and Eckhardt, Wolfgang, 4,665,653, Cl. 49-477.000.

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Langer, Alfred C. Gear headed fastener and drive tool structure. 4,685,848, 8-11-87, Cl. 411-402.000.

Langer, Alois A.; and Rinne, Albert W., to Liebel-Flarsheim Company. Injectors and injector consoles. 4,650,465, 3-17-87, Cl. 604-65.000.

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- Lanning, David D.: *See—*
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- Lanscioni, Richard. Golf glove. 4,639,947, 2-3-87, Cl. 2-161.00A.
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- Lansing, Richard: *See—*
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- Lant, Danny: *See—*
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- Lantech, Inc.: *See—*
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  - Lancaster, Patrick R.; and Lancaster, William G., 4,712,354, Cl. 53-399.000.
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- Lantz, Ingvar. Muscle building apparatus. 4,684,125, 8-4-87, Cl. 272-130.000.
- Lantz, Paul W.: *See—*
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- Lantzsch, Reinhard; and Reubke, Karl-Julius, to Bayer Aktiengesellschaft. Process for the preparation of β-hydroxyethyl-(1,2,4-triazole) derivatives. 4,639,527, 1-27-87, Cl. 548-262.000.
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- Lantzsch, Reinhard: *See—*
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- Lanzenberger, Rudolf: *See—*
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- Lanzer, Heribert, to Steyr-Daimler-Puch AG. Drive system for automobiles having two driven axles. 4,672,861, 6-16-87, Cl. 74-665.0GE.
- Lanzer, Heribert, to Steyr-Daimler-Puch AG. Drive mechanism for motor vehicles having two drive axles. 4,712,448, 12-15-87, Cl. 74-665.0GC.
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- Lanzisera, Vincent A.; Scalisi, Robert A.; and Oberhauser, Peter, to GTE Laboratories Incorporated. Optical fiber connected broadband microwave package for optoelectronic components. 4,650,276, 3-17-87, Cl. 350-96.200.
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- Lanzke, Hans-Uwe: *See—*
  - Wegner, Christian; Schneider, Gottfried; Lanzke, Hans-Uwe; Mayer, Wolfram; Wagner, Kuno; von Bonin, Wulf; von Gizycki, Ulrich; and Schaepel, Dietmar, 4,676,234, Cl. 128-90.000.
- Lanzoni, Thomas P.: *See—*
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- Lapadakis, Theodore P. Paper tape control unit. 4,700,906, 10-20-87, Cl. 242-67.30R.
- LaPadura, Nathan P. Modeling device. 4,674,981, 6-23-87, Cl. 434-82.000.
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- Lapatovich, Walter P.; and Gibbs, George R., to GTE Laboratories Incorporated. Mercury-free discharge lamp. 4,636,692, 1-13-87, Cl. 315-248.000.
- Lapatovich, Walter P.; Gibbs, George R.; and Proud, Joseph M., to GTE Laboratories Incorporated. Compact mercury-free fluorescent lamp. 4,647,821, 3-3-87, Cl. 315-248.000.
- Lapatovich, Walter P.; Keeffe, William M.; Liebermann, Richard W.; and Maya, Jakob, to GTE Laboratories Incorporated; and GTE Products Corporation. High intensity discharge device containing oxytrihalides. 4,672,267, 6-9-87, Cl. 313-571.000.
- Lapatovich, Walter P.: *See—*
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- Lapcevic, Robert E. Method for rapid obturation of root canals. 4,681,545, 7-21-87, Cl. 433-224.000.
- Lape, Larry J., to Boehringer Mannheim Diagnostics, Inc. Blood transfer assembly. 4,661,319, 4-28-87, Cl. 422-68.000.
- LaPerna, Joseph D.: *See—*
  - Sorensen, Jay R.; and LaPerna, Joseph D., 4,706,684, Cl. 128-677.000.
- Lapeyre, Didier; and Slonina, Jean-Pierre, to Biomasys Sarl. Device for atraumatic access to the blood circuit. 4,654,033, 3-31-87, Cl. 604-175.000.
- Lapeyre, George C.; Greve, Christopher G.; and Ruys, Hendrik J., to Laitram Corporation, The. Trimming and cutting apparatus for the preparation of crabs for meat extraction. 4,715,093, 12-29-87, Cl. 17-71.000.
- Lapeyre, James M.; and Gundlach, James O., to Laitram Corporation, The. Computer terminal support cabinet which eliminates reflection and glare from visual displays. 4,668,026, 5-26-87, Cl. 312-7.200.
- Lapeyre, James M.; and Greve, Christopher G., to Laitram Corporation, The. Staircase stringer fabricating apparatus. 4,673,011, 6-16-87, Cl. 144-136.00B.
- Lapeyre, James M., to Laitram Corporation, The. Dual function decimal key. 4,680,725, 7-14-87, Cl. 364-709.000.
- Lapeyre, James M., to Laitram Corporation, The. Flat top conveyor belt. 4,688,670, 8-25-87, Cl. 198-853.000.
- Lapeyre, James M., to Laitram Corporation, The. Electro-optical position determining system. 4,688,933, 8-25-87, Cl. 356-1.000.
- Lapeyre, James M., to Laitram Corporation, The. Mold and process for manufacturing helical shaped items. 4,693,861, 9-15-87, Cl. 264-328.100.
- Lapeyre, James M., to Laitram Corporation, The. Camera for recording keyboard entry of data on film edge. 4,705,372, 11-10-87, Cl. 354-106.000.
- Lapham, James M.: *See—*
  - Belanger, James A.; Wentworth, Robert; and Lapham, James M., 4,662,284, Cl. 104-172.300.
  - Belanger, James A.; Wentworth, Robert; and Lapham, James M., 4,690,065, Cl. 104-172.300.
- Lapid, Aharon M., to Tzora Furniture Industries Ltd. Device for suspending infant toys. 4,702,719, 10-27-87, Cl. 446-227.000.
- Lapides, Gerald: *See—*
  - Kamrud, Robert A., Sr., 4,676,472, Cl. 248-542.000.
- LaPier, Theodore M. Rodent trap. 4,685,245, 8-11-87, Cl. 43-78.000.
- Lapierre, Donald. Apparatus for reverse osmosis using fluid recirculation. 4,702,842, 10-27-87, Cl. 210-651.000.
- LaPierre, Rene B.: *See—*
  - Chu, Pochen; and LaPierre, Rene B., 4,650,655, Cl. 423-328.000.
  - Fischer, Ronald H.; Huang, Yun-Yang; LaPierre, Rene B.; and Varghese, Philip, 4,676,887, Cl. 208-61.000.
- Lapin, Stephen C., to Allied Corporation. Semi-interpenetrating polymer networks. 4,654,379, 3-31-87, Cl. 522-15.000.
- Lapine Technology: *See—*
  - Edwards, John R.; Popov, George D.; and Philbrick, John B., 4,703,376, Cl. 360-105.000.
  - Schulze, Dieter M., 4,661,873, Cl. 360-105.000.
- Lapinski, Frank; and Graziano, Anthony, to Primages, Inc. Envelope bin for a feeder of a printer and associated method of envelope feed. 4,671,504, 6-9-87, Cl. 271-126.000.
- Lapis, Erzsebet: *See—*
  - Megyeri, Gabor; Keve, Tibor; Stefko, Bela; Bogsch, Erik; Galambos, Janos; Kassainee Zieger, Anna; Trischler, Ferenc; Palosi, Eva; Groo, Dora; Karpati, Egon; Szombathelyi, Zsolt; Szporny, Laszlo ; Kiss, Bela; Laszlovszky, Istvan; and Lapis, Erzsebet, 4,681,887, Cl. 514-284.000.

apkin, Milton: *See—*
Lai, Kwo-Hrong; Lapkin, Milton; and Swasey, Frank B., 4,657,964, Cl. 524-409.000.

aplanche, Pierre, to Beghin-Say S.A. Elastic fasteners for a diaper 4,643,729, 2-17-87, Cl. 604-389.000

aPlante, Dale, to BEI Electronics, Inc. Zero reference generating method and apparatus for optical encoders. 4,678,908, 7-7-87, Cl. 250-231.0SE.

a Plante, Mark T., to Cannondale Corporation. Attachment system for mounting a pannier on a bicycle carrier rack. 4,671,438, 6-9-87, Cl. 224-32.00A.

a Plante, Mark T.: *See—*
Irwin, David; La Plante, Mark T.; and Graham, David R., 4,666,071, Cl. 224-39.000.

aPointe, Virginia L. Shoulder belt cushion. 4,693,495, 9-15-87, Cl. 280-808.000.

a Porte, Allen R. Device for picking up small pieces of litter. 4,640,539, 2-3-87, Cl. 294-19.100.

aporte, Dorothy: *See—*
Rahn, Melanie H.; and Braun, Jane E., 4,639,226, Cl. 434-433.000.

aporte Industries Limited: *See—*
Beauford, William; Spragg, Nicholas J.; and Millar, Malcolm, 4,661,157, Cl. 106-18.130.
Comyns, Alan E.; Morris, Gareth W.; and Sankey, John P., 4,687,871, Cl. 556-138.000.
Crampton, John R.; and Whiting, Howard, 4,657,881, Cl. 502-80.000.

apoulle, Bertrand: *See—*
Rochas, Jean-Francois; Lapoulle, Bertrand; Leroy, Yves; Mamoum, Ahmed; and Van de Velde, Jean-Claude, 4,650,345, Cl. 374-9.000.

Lapouyade S.A.: *See—*
Ragot, Jean C. R., 4,656,949, Cl. 104-172.300.

Lapp, Hans-Gunter: *See—*
Schonfeld, Joachim; Lapp, Hans-Gunter; and Gremer, Gabriele, 4,706,898, Cl. 241-73.000.

Lapp, Theodore R., to Q-COM, Inc. Automatic restart apparatus for a processing system. 4,654,821, 3-31-87, Cl. 364-900.000.

Lappe, Peter: *See—*
Bahrmann, Helmut; Cornils, Boy; Lipps, Wolfgang; Lappe, Peter; and Springer, Helmut, 4,673,535, Cl. 260-501.150.
Bahrmann, Helmut; Cornils, Boy; Lipps, Wolfgang; Lappe, Peter; and Springer, Helmut, 4,710,321, Cl. 200-501.150.

Lapsker, Itzchak, to GBI International Industries, Inc. Method and apparatus for high tolerance polishing of a workpiece surface. 4,677,793, 7-7-87, Cl. 51-251.000

Lapyre, Didier: *See—*
Berger, Henri; and Lapyre, Didier, 4,646,749, Cl. 128-678.000

Larac S.p.A.: *See—*
Pizzigoni, Giuseppe; and Parrini, Paolo, 4,686,064, Cl. 252-153.000

Larad Equipment Corporation: *See—*
Bernstein, Robert E.; and Nelson, Alan E., 4,682,755, Cl. 251-4.000.

Laragione, Robert; Lurcott, Steven M.; Bowe, Woodford A.; and Levy, Eugene J., to Chemical Data Systems, Inc. Microprocessor-controlled back-pressure system for small volume chemical analysis applications. 4,638,444, 1-20-87, Cl. 364-510.000.

Laramore, William D. Dusting flour recycling system. 4,636,301, 1-13-87, Cl. 209-31.000.

Larassay Holding AG: *See—*
Mayor, Jean-Michel; Steffen, Jurg; and Wuthrich, Peter, 4,695,698, Cl. 219-121.00L.

Larch, Gerhard: *See—*
Cvitas, Vilim; Faltejsek, Karl; Hanke, Reinhart; Janusch, Alois; and Larch, Gerhard, 4,685,899, Cl. 494-44.000.

Larck, William A.: *See—*
Atkins, Kenneth E.; Gandy, Raymond C.; and Larck, William A., 4,678,711, Cl. 428-414.000.

Lardellier, Alain M. J., to Societe Nationale d'Etude et de Construction de Moteur d'Aviation S.N.E.C.M.A. Method for the manufacture of a ceramic turbine ring integral with a metallic annular carrier. 4,646,810, 3-3-87, Cl. 164-98.000.

Lardellier, Alain M. J., to Societe Nationale d'Etude et de Construction de Moteur d'Aviation S.N.E.C.M.A. Containment structure for a turbojet engine. 4,648,795, 3-10-87, Cl. 415-196.000.

Lardellier, Alain M. J., to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation "S.N.E.C.M.A.". Housing for a turbojet engine compressor. 4,696,619, 9-29-87, Cl. 415-138.000.

Lardellier, Alain M. J., to Societe Nationale d'Etude et de Construction de Moteurs O'Aviation (S.N.E.C.M.A.). Apparatus for controlling radial clearance between a rotor and a stator of a turbojet engine compressor. 4,714,404, 12-22-87, Cl. 415-127.000.

Lardner, George E., to Halkey-Roberts Corporation. Check valve with preset cracking pressure. 4,681,132, 7-21-87, Cl. 137-271.000.

Lardon, Hartmut: *See—*
Augart, Dietmar; Eilingsfeld, Heinz; Krueger, Heinz; Lardon, Hartmut; Schaffer, Ortwin; and Seybold, Guenther, 4,677,199, Cl. 534-618.000.

Lardon, Marcel: *See—*
Moll, Eberhard; Lardon, Marcel; and Muller, Edgar, 4,641,450, Cl. 42-76.020.

Lare, Donald W.: *See—*
Powers, Carol C.; and Lare, Donald W., 4,685,984, Cl. 156-155.000.

Large, David J.; Kostka, William G.; and Wayman, Richard A., to Gill Industries, Incorporated. Apparatus and method of testing the frequency response of a cable television system. 4,700,222, 10-13-87, Cl. 358-86.000.

Large, Michael S.: *See—*
Eakin, Murdoch A.; Edwards, Philip N.; and Large, Michael S., 4,670,592, Cl. 564-234.000.
Yellin, Tobias O.; Gilman, David J.; Edwards, Philip N.; Large, Michael S.; Jones, Derrick F.; and Oldham, Keith, 4,657,908, Cl. 514-245.000.

Largen, Michael T.: *See—*
Buckley, Helen R.; Largen, Michael T.; and Strockbine, Nancy A., 4,670,382, Cl. 435-7.000.

Lari, Ferdinando: *See—*
Siligoni, Marco; Lari, Ferdinando; Saviotti, Vanni; and Comino, Vittorio, 4,638,122, Cl. 379-124.000.
Siligoni, Marco; and Lari, Ferdinando, 4,668,907, Cl. 323-316.000.

Lari, Robert J.: *See—*
Hull, John R.; Lari, Robert J.; Praeg, Walter F.; and Turner, Larry R., 4,678,024, Cl. 164-503.000.

Larimore, Franklin C.; and Sinclair, Robert A., to Minnesota Mining and Manufacturing Company. Pressure-sensitive adhesive tape having a substantially tack-free surface. 4,656,077, 4-7-87, Cl. 428-156.000.

Larizza, Pietro, to Snappy s.r.l. Writing or drafting instrument with cap actuator. 4,653,949, 3-31-87, Cl. 401-99.000.

Larizza, Pietro; and Falcone, Dino. Tilting ashtray. 4,671,301, 6-9-87, Cl. 131-231.000.

Lark, Jay S.: *See—*
Erman, Lee D.; Clancey, William J.; London, Philip E.; Scott, A. Carlisle; Bennett, James S.; and Lark, Jay S., 4,658,370, Cl. 364-513.000.

Larkin, Berni: *See—*
O'Malley, Kieran; Preisler, John; and Larkin, Berni, 4,634,816, Cl. 379-430.000.

Larkin, Francis; and Amey, Jeffrey, to Brandt, Inc. Method and apparatus for counting currency and for confirming the count of strap currency. 4,674,060, 6-16-87, Cl. 364-567.000.

Larkin, Francis C.: *See—*
Sherman, William, III; Larkin, Francis C.; and Horvath, Stephen J., 4,671,502, Cl. 271-4.000.
Sherman, William, III; Larkin, Francis C.; and Horvath, Stephen J., 4,703,172, Cl. 250-223.00R.
Sherman, William, III; Larkin, Francis C.; and Horvath, Stephen J., 4,707,599, Cl. 250-223.00R.

Larkin, James C., III: *See—*
Petersen, Richard W.; and Larkin, James C., III, 4,676,571, Cl. 439-261.000.

Larkin, John M.: *See—*
Sanderson, John R.; and Larkin, John M., 4,705,903, Cl. 568-922.000.

Larkin, Keith J., to U.S. Philips Corporation. Ionization chamber. 4,695,731, 9-22-87, Cl. 250-374.000.

Larkin, Mark E.; and Tripp, Edward S., to Abbott Laboratories. Container cover. 4,703,864, 11-3-87, Cl. 215-256.000.

Larkin, William J. Integrated solar heating unit. 4,637,375, 1-20-87, Cl. 126-434.000.

Larkins, Thomas H., Jr.: *See—*
Lane, Donald W.; Larkins, Thomas H., Jr.; and Rule, Mark, 4,654,436, Cl. 560-80.000.
Rule, Mark; Larkins, Thomas H., Jr.; Lane, Donald W.; and Steinmetz, Guy R., 4,649,216, Cl. 562-406.000.

Larm, Olle; and Seljelid, Rolf, to Medicarb AB. Water-soluble aminated β-1,3-bound D-glucan and composition containing same. 4,707,471, 11-17-87, Cl. 514-54.000.

Larnaston Limited: *See—*
Smale, Geoffrey A., 4,672,907, Cl. 114-103.000.

Larnerd, John D.: *See—*
Darrow, Russell E.; Emerick, Alan J.; and Larnerd, John D., 4,676,426, Cl. 228-125.000.

La Rocca, Aldo V., to Fiat Auto S.p.A. Method of carrying out a treatment on metal pieces with the addition of an added material and with the use of a power laser. 4,644,127, 2-17-87, Cl. 219-121.0FS.

La Rocca, Aldo V., to Fiat Auto S.p.A. Deep penetration laser welding of sheet metal. 4,661,677, 4-28-87, Cl. 219-121.0LD.

La Rocca, Aldo V., to Fiat Auto S.p.A. Apparatus for effecting treatment of metal workpieces by means of a power laser. 4,665,298, 5-12-87, Cl. 219-121.00L.

LaRocca, John, to Trans-World Manufacturing Corp. Changeable character display device. 4,660,309, 4-28-87, Cl. 40-5.000.

LaRocca, William J.; and Trush, David M., to Wickes Manufacturing Company. Manually operable gearshift mechanism. 4,693,135, 9-15-87, Cl. 74-473.00R.

LaRoche, Allan R.; Butcher, Robert A.; Kelleher, Denis M.; Corriveau, Marcel L. M.; and Dubuc, Jean A., to Manville Corporation. Flexible gutter. 4,663,894, 5-12-87, Cl. 52-15.000.

LaRoche, Allan R.: *See—*
Jenkins, Kenneth L.; Suhaka, Stanley C.; Dolin, Rick L.; LaRoche, Allan R.; Hodgson, Robert E.; Such, Neil R.; Smith, Douglas D.; Newton, Frank R.; and Cunningham, Richard N., 4,634,622, Cl. 428-143.000.

Laroche, Francois X. Structural joint element for panels. 4,648,231, 3-10-87, Cl. 52-775.000.

Laroche, Pierre, to Glaverbel. Method of modifying the wettability of glass beads, glass beads polymeric material incorporating such glass beads, and method of applying reflective markings to a surface. 4,713,295, 12-15-87, Cl. 428-406.000.

Laroche, Robert N.: *See—*
Worrell, Williams R.; Laroche, Robert N.; and Armstrong, Michael J., 4,637,666, Cl. 312-196.000.

Larock, Richard C., to Iowa State University Research Foundation, Inc. Heterocyclic synthesis via thallation and subsequent palladium-promoted olefination. 4,647,666, 3-3-87, Cl. 546-141.000.

Larock, Richard C.; and Varaprath, Sudarsanan, to Iowa State University Research Foundation, Inc. Synthesis of isocoumarins via thallation-olefination of arenes. 4,650,881, 3-17-87, Cl. 549-290.000.

Larock, Richard C., to Iowa State University Research Foundation, Inc. Synthesis of interphenylene prostaglandin analogs. 4,658,033, 4-14-87, Cl. 548-123.000.

Larock, Richard C.; and Chow, Min-Shine, to Iowa State University Research Foundation, Inc. Photochemical synthesis of allenic and propargylic organomercuric halides. 4,664,765, 5-12-87, Cl. 204-157.750.

Larocque, Ronald L.: *See—*

Ciepiela, Edmund J.; and Larocque, Ronald L., 4,676,908, Cl. 210-638.000.

LaRosa, John: *See—*

Karas, Richard J.; and LaRosa, John, 4,637,117, Cl. 29-527.400.

LaRosa, Thomas. Protective automobile partition. 4,708,384, 11-24-87, Cl. 296-24.00R.

LaRou, Albert M., to Emerson Electric Co. Grease pressure limiter and flow control for bearings. 4,671,681, 6-9-87, Cl. 384-466.000.

LaRou, Albert M., to Emerson Electric Co. Double row cylindrical expansion bearing. 4,673,302, 6-16-87, Cl. 384-548.000.

Larouche, Gilles, to Societe d'Energie de la Baie James. Portable partitioning panel. 4,635,417, 1-13-87, Cl. 52-239.000.

Larouere, Paula J.: *See—*

Cellier, Francis; Graulty, Robert T.; Johnson, Wendell L.; Batson, David M.; Limpert, John C.; Vu, Christopher K. C.; Bucher, George D.; John, Clarence D., Jr.; Steinkirchner, John E.; Larouere, Paula J.; Shah, Hemant H.; and Williams, Robert A., 4,687,605, Cl. 264-0.500.

Larque, Hubert. Counterfoil binding. 4,715,759, 12-29-87, Cl. 412-33.000.

Larquet, Christian: *See—*

Belot, Dominique; Rade, Jean-Yves; Piffard, Jean-Francois; Larquet, Christian; and Cornut, Philippe, 4,698,218, Cl. 423-347.000.

Larrabee, Edward W.; and Huck, Charles M., to Howmedica, Inc. Surgical stapler with retractable anvil. 4,645,111, 2-24-87, Cl. 227-19.000.

Larrabee, Scott R.: *See—*

Saperstein, Z. Philip; Arneson, Dean A.; Larrabee, Scott R.; Logic, Jeffrey A.; Costello, Norman F.; and Awe, Russell C., 4,688,311, Cl. 29-157.30R.

Larrauri, Antonio, administrator: *See—*

Celino, Martin S., deceased; Celino, Cecilio, administrator; and Larrauri, Antonio, administrator, 4,639,467, Cl. 514-468.000.

Larrecq, Michel; and Nogues, Michel, to Institut de Recherches de la Siderurgie Francaise. Vibrating ingot mold for continuous casting of metals. 4,662,427, 5-5-87, Cl. 164-416.000.

Larrecq, Michel; and Vedda, Louis, to Institut de Recherches de la Siderurgie Francaise. Roller for continuous casting between rollers, with circulation of cooling fluid. 4,671,340, 6-9-87, Cl. 164-429.000.

Larribe, Lucien: *See—*

Charonnat, Yves; and Larribe, Lucien, 4,678,364, Cl. 404-105.000.

Larrick, James W.; and Raubitschek, Andrew A., to Cetus Corporation. Pseudomonas aeruginosa exotoxin A antibodies, their preparation and use. 4,677,070, 6-30-87, Cl. 435-240.000.

Larrick, James W.; Ringold, Gordon M.; Mark, David F.; Lin, Leo S.; and Torti, Frank M., to Leland Stanford Junior University, The Board of Trustees of the; and Cetus Corporation. Use of tumor necrosis factor as a weight regulator. 4,684,623, 8-4-87, Cl. 514-12.000.

Larrowe, Vernon L., to Environmental Research Institute of Michigan. Phase-shift stabilized frequency multiplier. 4,663,541, 5-5-87, Cl. 307-219.100.

Larrowe, Vernon L.: *See—*

Zuk, David M.; and Larrowe, Vernon L., 4,636,719, Cl. 324-83.00D.

Lars, Eriksson. Chassis. 4,700,959, 10-20-87, Cl. 280-791.00R.

Lars-Inge Larsson med Firma Larssons Industrimekaniska Verkstad: *See—*

Larsson, Lars-Inge, 4,697,388, Cl. 51-120.000.

Lars International S.A.: *See—*

Fickler, Hans, 4,703,666, Cl. 74-89.150.

Lars Ljungberg, Lab Trade AB: *See—*

Permer, Christer, 4,660,424, Cl. 73-864.830.

Larsen, Anders, to Nord-Plan Stalreoler A/S. Thin plate structure. 4,691,493, 9-8-87, Cl. 52-588.000.

Larsen, B. Pershing: *See—*

Windstrup, Robert F.; Bodnar, Steven A.; and Larsen, B. Pershing, 4,650,412, Cl. 425-182.000.

Larsen, Bent A.: *See—*

Godtfredsen, Sven E.; Ottesen, Martin; and Larsen, Bent A., 4,708,875, Cl. 426-12.000.

Larsen, Charles J.: *See—*

Kelley, Arthur W.; and Larsen, Charles J., 4,661,784, Cl. 331-83.000.

Larsen, Eigil; Lien, Eldar; and Snook, Clive, to Geophysical Company of Norway A.S. Arrangement in hydrophone. 4,679,178, 7-7-87, Cl. 367-157.000.

Larsen, Eric R., to Dow Chemical Company, The. Radiopaque thermoset polymer. 4,656,224, 4-7-87, Cl. 525-40.000.

Larsen, Erling A. Sport implement swing training method. 4,657,251, 4-14-87, Cl. 273-26.00C.

Larsen, Gunnar M., to Hiab Export A/S. Crane bracket for mounting over the chassis side members of a truck. 4,643,320, 2-17-87, Cl. 212-180.000.

Larsen, Hals N.; and Stephens, Donald L., to Paccar Inc. Quick-response control system for low-flow engine coolant systems. 4,697,551, 10-6-87, Cl. 123-41.310.

Larsen, Hans O.; and Kindt-Larsen, Ture, to Vistakon, Inc. Method of forming shaped hydrogel articles. 4,680,336, 7-14-87, Cl. 524-548.000.

Larsen, Hans-Ole, to Mia-Lens Production A/S. Mold for making contact lenses, either the male or female mold sections being relatively more flexible. 4,640,489, 2-3-87, Cl. 249-122.000.

Larsen, Hugh G.: *See—*

Maslak, Samuel H.; and Larsen, Hugh G., 4,699,009, Cl. 73-626.000.

Larsen, Jack E.: *See—*

Gainsley, James D.; Vikre, David M.; Larsen, Jack E.; Hursh, William F.; and Carlson, David L., 4,671,289, Cl. 128-660.000.

Larsen, James W.; and Campbell, Daniel P., to Sangamo Weston, Inc. Structure for Hall device for compensation of first and second order voltage offsets. 4,698,522, 10-6-87, Cl. 307-309.000.

Larsen, Jonathan P.: *See—*

Darton, Kenneth S.; and Larsen, Jonathan P., 4,648,078, Cl. 367-13.000.

Larsen, Larry D.; Yung, Richard C. S.; Leung, Wing K.; and Hogel, Joseph E., to Fyrnetics, Inc. Weight scales and strain gauge assemblies useable therein. 4,691,794, 9-8-87, Cl. 177-211.000.

Larsen, Larry D.: *See—*

Jones, Gardner D., Jr.; and Larsen, Larry D., 4,663,675, Cl. 360-32.000.

Larsen, Larry K.: *See—*

Forsse, Earl K.; Larsen, Larry K.; and Davies, John M., 4,665,640, Cl. 40-457.000.

Larsen, Marvin L., to Tri/Mark Corporation. Pop-up handle assembly. 4,689,976, 9-1-87, Cl. 70-208.000.

Larsen, Merle D.: *See—*

Cummings, Richard E.; Mackey, Charles S.; Dickinson, Robert W.; Dickinson, Ben W. O., III; and Larsen, Merle D., 4,715,128, Cl. 33-544.000.

Larsen, Michael R.: *See—*

Moldovan, Peter K.; and Larsen, Michael R., 4,672,350, Cl. 337-82.000.

Larsen, Olaf E., to Phillips Petroleum Company. Pipe plug apparatus and method for its use. 4,708,841, 11-24-87, Cl. 264-558.000.

Larsen, Ole F. Barrier structure and method of producing and laying it. 4,668,123, 5-26-87, Cl. 405-15.000.

Larsen, Peter L. Multiple use hand tool. 4,635,309, 1-13-87, Cl. 7-158.000.

Larsen, Richard R., to Pacific Scientific Company. Modular metallic bellows assembly. 4,710,050, 12-1-87, Cl. 403-51.000.

Larsen, Theodore E., to Intech-Systems, Inc. Method of selecting and reproducing language characters. 4,698,758, 10-6-87, Cl. 364-419.000.

Larsen, Thor A.; Martin, David H.; and Moth, Frank T., to International Business Machines Corporation. Electrochromic matrix display. 4,644,344, 2-17-87, Cl. 340-785.000.

Larsen, Thor A., to International Business Machines Corporation. Liquid crystal display. 4,699,469, 10-13-87, Cl. 350-333.000.

Larson, Byron A.; and Molteni, John J. Apparatus for repairing deformed, yieldable structures. 4,643,015, 2-17-87, Cl. 72-305.000.

Larson, Byron A.; and Molteni, John J. Apparatus for repairing deformed, yieldable structures. 4,700,559, 10-20-87, Cl. 72-461.000.

Larson, Carl A.; Modarressi, Hamid; and Moore, John J., to New York Telephone Company. Method and apparatus for testing a subscriber's line circuit in a packet switched multiplexed data/voice communication system. 4,660,194, 4-21-87, Cl. 370-15.000.

Larson, Conrad M., to Midwest Green Products, Inc. Kitty litter box. 4,648,349, 3-10-87, Cl. 119-1.000.

Larson, Craig A.: *See—*

Slat, William A.; Darr, Richard C.; Dunlap, Richard L.; and Larson, Craig A., 4,639,207, Cl. 425-503.000.

Larson, Curtis L.: *See—*

Emslander, Jeffrey O.; and Larson, Curtis L., 4,664,263, Cl. 206-630.000.

Emslander, Jeffrey O.; and Larson, Curtis L., 4,708,249, Cl. 206-630.000.

Isakson, Gary A.; and Larson, Curtis L., 4,640,838, Cl. 426-107.000.

Larson, David A. Electro-acoustic transducer with diaphragm and blank therefor. 4,703,510, 10-27-87, Cl. 381-196.000.

Larson, David E.: *See—*

Anderson, Wayne H.; Larson, David E.; and Reinhart, Mark R., 4,707,750, Cl. 360-60.000.

Larson, David L.: *See—*

Crawford, Thomas C.; Keely, Stanley L.; Larson, David L.; Lombardino, Joseph G.; and Maciejko, James J., 4,672,061, Cl. 514-222.000.

Larson, Donald A.; and Runyon, Peter M., to North States Industries, Inc. Adjustable gate for doorways. 4,677,791, 7-7-87, Cl. 49-463.000.

Larson, Donald A., to North States Industries, Inc. Multiple panel play area. 4,712,773, 12-15-87, Cl. 256-25.000.

Larson, Eldon E. Latch integral with latched apparatus. 4,639,249, 1-27-87, Cl. 604-198.000.

Larson, Eric H.: *See—*

Cadel, Jeffrey S.; and Larson, Eric H., 4,668,747, Cl. 526-216.000.

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Larsson, Arne, to Oxy-Tuben AB. Blast pipe. 4,662,614, 5-5-87, Cl. 266-270.000.

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Larsson, Gunnar, to AB Vretens Mekaniska Verkstad. Grader attachment for a loader. 4,635,730, 1-13-87, Cl. 172-788.000.

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Larsson, Peter L.: *See—*

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Rol, Pascal, 4,664,490, Cl. 351-219.000.

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- Laschinski, Dieter H.: *See—*
  - Rodloff, Rudiger K.; Jungbluth, Werner W.; and Laschinski, Dieter H., 4,650,331, Cl. 356-350.000.
- Laschinski, Joachim: *See—*
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- Laser Applications Limited: *See—*
  - Hamilton, David C., 4,639,740, Cl. 346-76.00L.
- Laser Corporation of America: *See—*
  - Hoag, Ethan; and Zeiders, Glenn, 4,686,680, Cl. 372-58.000.
  - Hoag, Ethan D., 4,686,685, Cl. 372-107.000.
  - Hoag, Ethan D., 4,698,551, Cl. 313-619.000.
  - Locke, Edward V., 4,682,001, Cl. 219-121.0LC.
  - Reilly, James P.; and Yoder, M. John, 4,635,269, Cl. 372-58.000.
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  - Clements, Ken, 4,658,146, Cl. 250-566.000.
  - Clements, Ken, 4,707,814, Cl. 369-13.000.
- Laser Engineering (Development) Limited: *See—*
  - Lockington, Philip G., 4,656,814, Cl. 53-450.000.
- Laser Machining, Inc.: *See—*
  - Bauer, Theodore J.; Herke, Donald P.; Bork, Edward A.; and Lawson, William E., 4,680,442, Cl. 219-121.0LG.
- Laser Magnetic Storage International Company: *See—*
  - Carickhoff, Richard C.; Hemdal, Hakan O.; and Schultz, Alvin L., 4,694,259, Cl. 331-1.00A.
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  - Grassens, Leonardus J.; and Janssen, Peter J., 4,683,520, Cl. 361-427.000.
  - Lee, Wai-Hon, 4,707,137, Cl. 356-353.000.
  - Smith, Jay A., 4,679,747, Cl. 242-195.000.
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  - Verboom, Johannes J., 4,646,281, Cl. 369-59.000.
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  - Cohen, David A.; and Papurt, David M., 4,678,337, Cl. 356-387.000.
- Laser Photonics, Inc.: *See—*
  - Bellar, Dennis R., 4,636,043, Cl. 350-484.000.
  - Sasser, Thurman, 4,677,639, Cl. 372-93.000.
- Laser Precision Corporation: *See—*
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  - Javan, Ali, 4,651,010, Cl. 250-458.100.
- Laser Therapeutics, Inc.: *See—*
  - McCaughan, James S., Jr., 4,660,925, Cl. 350-96.150.
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- Laserpath Corporation: *See—*
  - Johnson, Morgan, 4,700,214, Cl. 357-68.000.
- Lasers for Medicine: *See—*
  - Daly, Richard T.; and Trokel, Stephen L., 4,638,801, Cl. 128-303.100.
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  - Hussein, Hany M. G.; and Loeb, Marvin P., 4,646,737, Cl. 128-303.100.
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- Lash, Glen R., to Procter & Gamble Company, The. Shaped disposable diapers with shaped elastically contractible waistbands. 4,710,189, 12-1-87, Cl. 604-385.00A.
- Lash, Robert; and Hatfield, Gregory, to M.D. Engineering. Intravenous tube stress relief bracelet. 4,662,873, 5-5-87, Cl. 604-179.000.
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  - Hatfield, Gregory A.; and Lash, Robert E., 4,683,884, Cl. 128-303.140.
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- Lasher, Jeffrey D.: *See—*
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- Lashley, R. Craig: *See—*
  - Lashley, Lester; Lashley, R. Craig; and Lashley, Russel E., 4,639,944, Cl. 2-2.000.
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- Lashway, William H.: *See—*
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- Lashyro, Jeffrey A., to Minnesota Automation. Rotary transfer device. 4,643,633, 2-17-87, Cl. 414-732.000.
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- Laska, Eugene M.: *See—*
  - Sunshine, Abraham; Laska, Eugene M.; and Siegel, Carole E., 4,656,177, Cl. 514-264.000.
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- Laskaris, Evangelos T., to General Electric Company. Compact retractable cryogenic leads. 4,635,450, 1-13-87, Cl. 62-514.00R.
- Laskaris, Evangelos T., to General Electric Company. Spring loaded valve for adding cryogenic liquid to a cryostat. 4,635,451, 1-13-87, Cl. 62-514.00R.
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- Laski, Frank A.: *See—*
  - Sharp, Phillip A.; Capecchi, Mario R.; RajBhandary, Uttam L. Laski, Frank A.; and Hudziak, Robert M., 4,687,737, C 435-68.000.
- Laskowitz, Joseph F. Reclining chair with retractable footres 4,715,654, 12-29-87, Cl. 297-329.000.
- Lasky, Jerome B.: *See—*
  - Abernathey, John R.; Kinney, Wayne L.; Lasky, Jerome B.; an Stiffler, Scott R., 4,649,627, Cl. 29-571.000.
- Laslaz, Gerard: *See—*
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- Lasley, Billy L.: *See—*
  - Bain, James D.; and Lasley, Billy L., 4,652,532, Cl. 436-501.000
- Lasley, Duncan T.: *See—*
  - Austin, Forrest L.; and Lasley, Duncan T., 4,708,155, Cl. 137-1.00
- Lasnier, Didier: *See—*
  - Bolot, Denis; Cuny, Francis; and Lasnier, Didier, 4,653,692, C 239-427.000.
- La Sota, Bruce W.: *See—*
  - Bocking, Bruce; Cervantes, Joe A., Jr.; Green, Douglas H.; L Sota, Bruce W.; Marshall, David H.; Rodriguez, Bernard; an Van Gorden, Glen, 4,681,175, Cl. 175-393.000.
- Lasota, Robert E.; and Haibach, William, to Ampco-Pittsburgh Corp ration. Threaded end protector and component. 4,655,256, 4-7-87, C 138-96.00T.
- Lasperas, Monique: *See—*
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- Lassche, Jakob. Bicycle pedal with foot holder. 4,665,767, 5-19-87, 74-594.600.
- Lassen, Frederich O., to Kimberly-Clark Corporation. Sanitary nap with fluid transfer layer. 4,636,209, 1-13-87, Cl. 604-378.000.
- Lassen, Frederich O.; Sherrod, Earle H.; Nichols, Ann M.; and Serb Paul J., to Kimberly-Clark Corporation. Method and pad allow improved placement of catamenial device. 4,673,403, 6-16-87, 604-385.00R.
- Lassen, Frederich O., to Kimberly-Clark Corporation. Web with hanced fluid transfer properties and method of making s 4,701,237, 10-20-87, Cl. 156-252.000.
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- Lasser, Cliff A.: *See—*
  - Hillis, W. Daniel; Knight, Thomas F., Jr.; Bawden, Alan; K Brewster L.; Chapman, David; Christman, David P.; L Cliff A.; and Feynman, Carl R., 4,709,327, Cl. 364-200.000.
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  Hansen, Henning M.; Jacobsen, Hans E.; Hansen, Henry; Lassithiotakis, Konstantin; Pedersen, Allan S.; and Nyrup, John, 4,641,537, Cl. 73-861.120.
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Lassle, Edwin: *See—*
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Lasswell, Patrick G.: *See—*
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Last, Hartmut: *See—*
  Bader, Rolf; Last, Hartmut; Mayer, Manfred; Rittner, Siegbert; and Wetzel, Edgar, 4,683,034, Cl. 203-43.000.

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  Kropielnicki, Jerzy J.; Easter, Brian; and Last, James D., 4,654,669, Cl. 343-704.000.

Lastofka, Paul A.; and Wondergem, M. James, to Dart Industries Inc. Toaster oven. 4,656,337, 4-7-87, Cl. 219-386.000.

Lastovka, Joseph B.: *See—*
  Petersen, Alan B.; Rempel, Robert C.; Lastovka, Joseph B.; Head, David F.; and Carlson, Lee R., 4,677,640, Cl. 372-103.000.

Lastrina, Frank A.: *See—*
  Klassen, David D.; Moyer, Roy E.; Lastrina, Frank A.; and Tameo, Robert P., 4,685,942, Cl. 55-306.000.

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  Seubert, John G.; Beasly, Kevin G.; Herold, Stanley J.; and Laswell, John E., 4,674,407, Cl. 102-293.000.

Laszlovszky, Istvan: *See—*
  Megyeri, Gabor; Keve, Tibor; Stefko, Bela; Bogsch, Erik; Galambos, Janos; Kassainee Zieger, Anna; Trischler, Ferenc; Palosi, Eva; Groo, Dora; Karpati, Egon; Szombathelyi, Zsolt; Szporny, Laszlo; Kiss, Bela; Laszlovszky, Istvan; and Lapis, Erzsebet, 4,681,887, Cl. 514-284.000.

Lat, Michael V.: *See—*
  Kortschinski, Juri; Lat, Michael V.; Maurice, Claude G.; and Tickner, Derek C., 4,710,847, Cl. 361-125.000.

Latanzi, Lewis A.: *See—*
  Schoenbaum, Gary L.; Latanzi, Lewis A.; Hedrick, Stephen L.; and Johnson, Harold V., 4,695,157, Cl. 356-237.000.

Latassa, Frank M.: *See—*
  Macdonald, Wallace T.; and Latassa, Frank M., 4,645,283, Cl. 339-50.00R.

Lateltin, Paul: *See—*
  Cronenberger, Michel; Lateltin, Paul; and Rustant, Robert, 4,702,835, Cl. 210-321.720.

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  Garbis, Danny; Chan, Joseph J.; Granata, Amadeo J.; Coniglione, Philip; Briglia, Thomas D.; and Laterza, Lawrence E., 4,659,400, Cl. 148-175.000.

Latessa, Loretino M.: *See—*
  Bannister, Cecil H.; Ramsden, Paul N.; and Latessa, Loretino M., 4,651,122, Cl. 338-126.000.

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Latham, Daniel S.: *See—*
  Vescio, Donald W.; and Latham, Daniel S., 4,703,400, Cl. 362-80.000.

Latham, Paul W., II, to Data General Corporation. Charge pump for use in a phase-locked loop. 4,636,748, 1-13-87, Cl. 331-17.000.

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Latham, Philip B. Restraining device for spinal taps. 4,660,552, 4-28-87, Cl. 128-134.000.

Latham, Phillip A. Freeboard measuring device. 4,712,305, 12-15-87, Cl. 33-126.500.

Lathers, Michael W.; and Bruning, Richard P., to General Motors Corporation. Vehicle seat construction. 4,711,496, 12-8-87, Cl. 297-452.000.

Lathery, Willie M.: *See—*
  London, J. Reid; Bell, Cecil R., Jr.; Edwards, A. Russell; Lathery, Willie M.; Efird, Lee A.; Porter, Richard M.; Shaw, Stephen K.; Costello, Thomas J.; Pike, August A.; Bell, Donald G.; and Setliff, Harold, 4,640,162, Cl. 83-152.000.
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Lathrop, David R.: *See—*
  Stanek, Terrence L.; and Lathrop, David R., 4,634,345, Cl. 416-244.00R.

Lathrum, Wilford D. Easy outboard motor loader. 4,705,179, 11-10-87, Cl. 212-182.000.

Latif, Sherif; Nieass, Christopher S.; and Warren, Peter A., to BOC Group, Inc., The. Automatic mixing of liquid organic compounds. 4,688,946, 8-25-87, Cl. 366-182.000.

Latimer, Elwood D., Jr.: *See—*
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Latimer, Eugene E.; and McWilliams, Orcenith D., to Caterpillar Inc. Metering slot configuration for a valve spool. 4,667,930, 5-26-87, Cl. 251-324.000.

Latimer, Margaret G.: *See—*
  Sneyd, James C., Jr.; Harris, Robert D.; and Latimer, Margaret G., 4,710,185, Cl. 604-372.000.

Latimer, Maurice E. Water cooled refrigerant condenser. 4,676,071, 6-30-87, Cl. 62-225.000.

Latimer N.V.: *See—*
  Cascajosa, Felix G., 4,714,065, Cl. 123-452.000.
  Garcia Cascajosa, Felix, 4,707,978, Cl. 60-39.350.

Latimer, Paul J., to Babcock & Wilcox Company, The. Method for ultrasonic detection of hydrogen damage in boiler tubes. 4,685,334, 8-11-87, Cl. 73-599.000.

Latin Percussion, Inc.: *See—*
  Moreschi, Giovanni, 4,684,091, Cl. 248-166.000.

Latina, Roland N., to Figgie International Inc. Wrist strap construction for a baseball glove. 4,651,345, 3-24-87, Cl. 2-19.000.

Latka, Henry C., to General Signal Corporation. System for controlling the diameter of a crystal in a crystal growing furnace. 4,710,258, 12-1-87, Cl. 156-601.000.

LaTorre, Fredrick E.: *See—*
  Henry, Daniel P.; LaTorre, Fredrick E.; and Pope, Willard L., 4,714,255, Cl. 273-249.000.

LaTorre, Richard R.: *See—*
  Beckerleg, Richard A.; Fernald, Mark R.; LaTorre, Richard R.; and Grosso, Vincent A., 4,690,351, Cl. 244-3.160.

La Tour, June T. Method for making a body wrap composition. 4,634,436, 1-6-87, Cl. 604-290.000.

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Latourrette, Bertrand; and Menesguen, Anne, to Rhone-Poulenc Chimie de Base. Preparation of zeolites 4A and/or 13X. 4,661,334, 4-28-87, Cl. 423-329.000.

Latourrette, Bertrand: *See—*
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Latreille, Maurice G.: *See—*
  Kudert, Frederick G.; Latreille, Maurice G.; McHenry, Robert J.; Nahill, George F.; Pfutzenreuter, Henry, III; Tennant, William A.; Tong, Thomas T.; and Vella, John, Jr., 4,712,990, Cl. 425-130.000.

Latshaw, Don. Triphonic sound system. 4,685,136, 8-4-87, Cl. 381-108.000.

Latszereszeti Eszkozok Gyara: *See—*
  Janos, Antal; and Jeno, Pojbics, 4,712,822, Cl. 296-24.00R.

Latta, Milton R.: *See—*
  Juliana, Anthony, Jr.; Latta, Milton R.; Sincerbox, Glenn V.; and Willson, Carlton G., 4,645,338, Cl. 356-150.000.

Latta, William A., Jr., to Automated Industrial Systems. Indexing laser marker. 4,638,144, 1-20-87, Cl. 219-121.0LH.

Latter, Terence D. Device for measuring the thickness of thin films. 4,648,107, 3-3-87, Cl. 378-50.000.

Lattig, Krail N. Arrow rest for archery bow. 4,715,355, 12-29-87, Cl. 124-41.00A.

Lattion, Andre, to Sulzer Brothers Limited. Automat location system. 4,640,088, 2-3-87, Cl. 57-263.000.

Lattion, Andre, to Machinenfabrik Rieter AG. Bobbin magazine for a travelling service device of a yarn processing machine. 4,655,665, 4-7-87, Cl. 414-112.000.

Lattion, Andre; Carl, Alfred; and Oehler, Reinhard, to Maschinenfabrik Rieter AG. Arrangements for handling conical thread packages. 4,684,307, 8-4-87, Cl. 414-31.000.

Lattion, Andre; Bischofberger, Jurg; Salvik, Walter; Stapfer, Jakob; and Schreiber, Manfred, to Rieter Machine Works, Ltd. Open-end yarn piecer. 4,689,945, 9-1-87, Cl. 57-263.000.

Lattion, Andre: *See—*
  Bischofberger, Jurg; and Lattion, Andre, 4,680,925, Cl. 57-263.000.

Schreiber, Manfred; and Lattion, Andre, 4,653,261, Cl. 57-263.000.
Slavik, Walter; Engeli, Ernst; and Lattion, Andre, 4,685,283, Cl. 57-263.000.
Lattner, Manfred, to Zinser Textilmaschinen GmbH. Spinning machine drafting frame. 4,644,609, 2-24-87, Cl. 19-244.000.
Lattner, Manfred, to Zinser Textilmaschinen GmbH. Drafting assembiv for a spinning machine. 4,656,695, 4-14-87, Cl. 19-236.000.
Lattner, Manfred: *See—*
Dupper, Walter; Emberger, Roland; Hack, Kurt; Lattner, Manfred; Nickolay, Helmut; Riedel, Karl; and Schollhammer, Richard, 4,635,321, Cl. 19-0.250.
Nickolay, Helmut; Hack, Kurt; Lattner, Manfred; Meissner, Werner; and Schollhammer, Richard, 4,676,056, Cl. 57-81.000.
Latto, William, to C-E Industrial Lasers, Incorporated. Laser materials treatment system. 4,712,120, 12-8-87, Cl. 346-145.000.
Lattrell, Rudolf; Kirrstetter, Reiner; Schwab, Wilfried; Durckheimer, Walter; and Seibert, Gerhard, to Hoechst Aktiengesellschaft. Cephalosporin derivatives. 4,647,556, 3-3-87, Cl. 514-206.000.
Lattrell, Rudolf: *See—*
Kirrstetter, Reiner; Durckheimer, Walter; Lattrell, Rudolf; and Schwab, Wilfried, 4,692,516, Cl. 540-222.000.
Schwab, Wilfried; Durckheimer, Walter; Kirrstetter, Reiner; and Lattrell, Rudolf, 4,667,028, Cl. 540-222.000.
Lattuada, Charles P.; and Gladden, Frank R., Jr., to Environmental Diagnostics, Inc. Method for preserving plated media and product. 4,709,819, 12-1-87, Cl. 206-524.800.
Lattuada, Sergio, to STI Strumentazione Industriale S.p.A. Pneumatically actuated valve. 4,657,224, 4-14-87, Cl. 251-63.500.
Latty, James A., to Dresser Industries, Inc. Fuel admixture for a catalytic combustor. 4,687,491, 8-18-87, Cl. 44-51.000.
LaTulip, Randy J.: *See—*
Swearingen, Loren L.; Earls, Jimmy D.; and LaTulip, Randy J., 4,647,616, Cl. 524-600.000.
Swearingen, Loren L.; Earls, Jimmy D.; and LaTulip, Randy J., 4,668,767, Cl. 528-341.000.
Swearingen, Loren L.; Earls, Jimmy D.; and LaTulip, Randy J., 4,684,693, Cl. 524-600.000.
Swearingen, Loren L.; Embrey, Wallace E.; LaTulip, Randy J.; Earls, Jim D.; and McConchie, Garnet E., 4,701,529, Cl. 546-251.000.
Swearingen, Loren L.; and LaTulip, Randy J., 4,701,530, Cl. 546-251.000.
Latva-Pukkila, Pasi: *See—*
Uitto, Vesa; Julkunen, Pasi; Latva-Pukkila, Pasi; and Kiikka, Timo, 4,671,366, Cl. 175-27.000.
Latvala, Bruce E.; and Heidmann, Kurt R., to Allied Corporation. Rotor for a disc brake assembly. 4,651,851, 3-24-87, Cl. 188-218.0XL.
Latviisky Gosudarstvenny Universitet Imeni Petra Stuchki: *See—*
Pranch, Anatoly S., 4,687,273, Cl. 439-411.000.
Latyshev, Alexandr I.: *See—*
Gurevich, Simkha B.; Konstantinov, Vladimir B.; Chernykh, Dmitry F.; Levushkin, Vladislav M.; Pisarevskaya, Svetlana A.; Cheberyak, Mikhail S.; and Latyshev, Alexandr I., 4,707,053, Cl. 350-3.600.
Latza, Joachim; and Mock, Gunther, to Blohm & Voss AG. Self-contained ventilation system units for supplying spaces between bulkheads with individually circulated ventilation air. 4,711,193, 12-8-87, Cl. 114-211.000.
Lau, Arthur H. Collapsible artificial Christmas tree. 4,659,597, 4-21-87, Cl. 428-9.000.
Lau, Arthur L. Y.: *See—*
Charlton, Steven C.; Fleming, Roger L.; Hemmes, Paul; and Lau, Arthur L. Y., 4,645,744, Cl. 436-74.000.
Charlton, Steven C.; Hemmes, Paul; and Lau, Arthur L. Y., 4,649,123, Cl. 436-79.000.
Lau, Catherine Y., to Ortho Pharmaceutical (Canada) Ltd. Treatment of autoimmune diseases such as rheumatoid arthritis with suppressor factor. 4,705,687, 11-10-87, Cl. 424-95.000.
Lau, Cheuk K.; Yoakim, Christiane; Rokach, Joshua; Fortin, Rejean; and Guindon, Yvan, to Merck Frosst Canada, Inc. Phenothiazone derivatives and analogs. 4,667,032, 5-19-87, Cl. 544-35.000.
Lau, Cheuk K.: *See—*
Atkinson, Joseph G.; Guindon, Yvan; and Lau, Cheuk K., 4,663,347, Cl. 514-467.000.
Fortin, Rejean; Lau, Cheuk K.; Guindon, Yvan; Rokach, Joshua; and Yoakim, Christiane, 4,666,907, Cl. 514-223.000.
Lau, Hans-Hermann: *See—*
Wess, Gunther; Bartmann, Wilhelm; Beck, Gerhard; and Lau, Hans-Hermann, 4,665,080, Cl. 514-341.000.
Lau, Hon-Peng P.; Yang, Esther K.; and Jacobson, Howard W., to E.I. Du Pont de Nemours and Company. Coated chromium dioxide particles. 4,661,408, 4-28-87, Cl. 428-405.000.
Lau, Jark C.: *See—*
Radwanski, Fred R.; Lau, Jark C.; and Post, James L., 4,701,294, Cl. 264-518.000.
Lau, John J. Semiconductor wafer transfer apparatus. 4,695,217, 9-22-87, Cl. 414-404.000.
Lau, John R.: *See—*
Geho, W. Blair; Lau, John R.; and Jacob, Joseph, 4,705,804, Cl. 514-474.000.
Lau, Jurgen, to Endress u. Hauser GmbH u. Co. Sonic or ultrasonic distance measuring device. 4,675,854, 6-23-87, Cl. 367-908.000.
Lau, Jurgen: *See—*
Michalski, Bernhard; Lau, Jurgen; and Berger, Wolfram, 4,700,569, Cl. 73-290.00V.
Lau, Kam C.; and Hocken, Robert J., to United States of America, Commerce. Three and five axis laser tracking systems. 4,714,339, 12-22-87, Cl. 356-4.500.
Lau, Kei-Fung: *See—*
Stokes, Robert B.; Yen, Kuo-Hsiung; Lau, Kei-Fung; Kagiwada, Reynold S.; and Delaney, Michael J., 4,707,631, Cl. 310-313.00A.
Lau, Kenneth K.; and Yelf, Jack T., to MacMillan Bloedel Limited. Temperature compensating continuous panel tester. 4,708,020, 11-24-87, Cl. 73-852.000.
Lau, Kreisler S. Y.; and Kelleghan, William J., to Hughes Aircraft Company. Derivatives of diphenylhexafluoropropane. 4,649,207, 3-10-87, Cl. 549-563.000.
Lau, Kreisler S. Y.; and Kelleghan, William J., to Hughes Aircraft Company. Ethynylthiophenoxy derivatives of diphenylhexafluoropropane. 4,695,655, 9-22-87, Cl. 568-56.000.
Lau, Kreisler S. Y.; and Kelleghan, William J., to Hughes Aircraft Company. Polymers of ethynylthiophenoxy derivatives of diphenylhexafluoropropane. 4,708,991, 11-24-87, Cl. 525-275.000.
Lau, Nam S.; and Lau, Yick J., to Phantom Firework Manufacturing Company Limited. Molded fireworks. 4,697,518, 10-6-87, Cl. 102-358.000.
Lau, Philip Y.: *See—*
Novak, Leo R.; Kelley, David C.; and Lau, Philip Y., 4,668,743, Cl. 525-356.000.
Lau, Robert G., to Whirlpool Corporation. Reversible hinge with over-center spring for refrigerators. 4,690,468, 9-1-87, Cl. 312-291.000.
Lau, Robert S.; Murphy, Roy E.; and Quick, Robert G., Jr., to Azuray Inc. Digital multi-beam CRT controller. 4,695,772, 9-22-87, Cl. 315-370.000.
Lau, Tit-Kueng; and Cohen, Abraham B., to Du Pont de Nemours, E. I., and Company. Lamination of photopolymerizable film onto a substrate employing an intermediate nonphotosensitive liquid layer. 4,698,294, 10-6-87, Cl. 430-325.000.
Lau, Wah. Adjustable buckle. 4,674,158, 6-23-87, Cl. 24-580.000.
Lau, Wing Y. T., to Kendall Company, The. Dampener roll cover. 4,675,220, 6-23-87, Cl. 428-36.000.
Lau, Yick J.: *See—*
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Laub, Georgene H.: *See—*
Peyran, Richard J.; Laub, Georgene H.; and Morse, H. Andrew, 4,669,958, Cl. 416-114.000.
Laubach, Donald R. Bull elk calling device. 4,637,154, 1-20-87, Cl. 43-1.000.
Laubach, William F.: *See—*
Jenkins, John W.; and Laubach, William F., 4,684,194, Cl. 439-260.000.
Laube, Manfred, to International Standard Electric Corporation. Communication terminal for processing voice and graphical information. 4,653,086, 3-24-87, Cl. 379-96.000.
Laube, Paul R.: *See—*
Dowell, James R.; and Laube, Paul R., 4,671,988, Cl. 428-226.000.
Lauber, Ernst, to Willy Habegger AG. Convertible rope pulling and walking machine. 4,634,101, 1-6-87, Cl. 254-228.000.
Laubgan, Villi R.: *See—*
Zarogatsky, Leonid P.; Ivanov, Nikolai A.; Korolkov, Mikhail F.; Laubgan, Villi R.; and Safronov, Andrei N., 4,655,405, Cl. 241-215.000.
Laubie, Michel: *See—*
Vincent, Michel; Remond, Georges; and Laubie, Michel, 4,644,008, Cl. 514-412.000.
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Gahlau, Heinemann; Wittenmayer, Klaus; Laubner, Manfred; and Baumeister, Herbert, 4,655,496, Cl. 296-39.00A.
Lauche, Hans; and Barke, Wilhelm, to Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e.V. Channel secondary electron multiplier. 4,652,788, 3-24-87, Cl. 313-103.0CM.
Lauchenauer, Alfred E., to Adnovum AG. Heat activatable multi-component sheet material & process for making same. 4,649,077, 3-10-87, Cl. 428-317.100.
Lauchenauer, Alfred E., to Jacob Schlaepfer & Co., AG. Application of polymeric materials to substrates. 4,705,584, 11-10-87, Cl. 156-79.000.
Laudadio, Charles, to Pfizer Inc. Differential thermal testing apparatus and method. 4,653,507, 3-31-87, Cl. 128-742.000.
Laude, David P., to Harris Corporation. Differential input stage for the realization of low noise and high precision bipolar transistor amplifiers. 4,639,684, 1-27-87, Cl. 330-259.000.
Laude, David P.; and Noufer, Glenn E., to Ford Microelectronics, Inc. FET gate current limiter circuits. 4,701,643, 10-20-87, Cl. 307-450.000.
Laude, Jean-Pierre, to Instrument S.A. of France. Optical isolation device for multiplexing or demultiplexing wavelengths. 4,651,315, 3-17-87, Cl. 370-3.000.
Laude, Jean-Pierre, to Instruments, S.A. of France. Divided function optical component for optical teletransmissions. 4,671,607, 6-9-87, Cl. 350-96.150.
Laude, Jean-Pierre; Flamand, Jean; and Gautherin, Jean-Claude, to Instruments S.A. Compact wavelength multiplexer-demultiplexer with variable filtration. 4,675,860, 6-23-87, Cl. 370-3.000.
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Lauderbach, Leo, to Stabilus GmbH. Taper connection on a chair or table column of adjustable height. 4,692,057, 9-8-87, Cl. 403-334.000.

- Lauderbach, Leo, to Stabilus GmbH. Gas springs with different active lengths to provide plural stable stopping positions. 4,706,333, 11-17-87, Cl. 16-289.000.
- Lauderback, Sanford K.: *See—*
  - Willard, G. Fred; Wait, Michael R.; Hutchings, David A.; and Lauderback, Sanford K., 4,685,873, Cl. 264-83.000.
- Laudig, Ronald C.: *See—*
  - Cohen, Thomas S.; Laudig, Ronald C.; and Smith, Donald L., 4,688,878, Cl. 439-585.000.
- Laudise, Robert A., to AT&T Bell Laboratories. Hydrothermal growth of potassium titanyl phosphate. 4,654,111, 3-31-87, Cl. 156-623.00R.
- Laue, Eric G., to United States of America, National Aeronautics and Space Administration. Water-absorbing capacitor system for measuring relative humidity. 4,662,220, 5-5-87, Cl. 73-336.500.
- Laue, Frank: *See—*
  - Stetter, Karl O.; Schmitt, Rudiger; and Laue, Frank, 4,693,980, Cl. 435-199.000.
- Laue, Hans-Bodo, to Nixdorf Computer AG. Output circuit for signal transmission systems. 4,678,939, 7-7-87, Cl. 307-445.000.
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- Laue, Karl H.: *See—*
  - Wagener, Dietrich; Laue, Karl H.; Wunderlich, Egmar; Sander, Theo; Flockenhaus, Claus; Hackler, Erich; Levkov, Blagoje; Grimm, Daniel; Kainer, Hartmut; and Stein, Hermann, 4,672,052, Cl. 502-439.000.
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- Lauer, Fredy, to Sulzer Brothers Limited. Threaded connection having multi-part threaded bolt. 4,690,600, 9-1-87, Cl. 411-263.000.
- Lauer, Gerhard; Morawietz, Alfred; and Wild, Jurgen. Apparatus for adjusting the tie rod in an automotive vehicle. 4,674,366, 6-23-87, Cl. 81-57.140.
- Lauer, Gilbert E., to Tandem Computers Incorporated. RAM based multiple breakpoint logic. 4,675,646, 6-23-87, Cl. 340-146.200.
- Lauer, Janet S.: *See—*
  - Choyke, Wolfgang J.; Wood, Susan; Scala, Luciano C.; Zussman, Melvin P.; Doggrell, Leslie A.; and Lauer, Janet S., 4,711,822, Cl. 428-458.000.
- Lauer, John F.; Greenberg, Ronald; and Van De Walle, Raymond A. Synthetic seaweed kit and synthetic seaweed matrix formed thereby. 4,641,997, 2-10-87, Cl. 405-24.000.
- Lauer, Manfred: *See—*
  - Roeser, Karl; Lauer, Manfred; Sauter, Hubert; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, 4,639,447, Cl. 514-222.000.
- Lauer, Reinhard; and Hartmann, Werner, to Erwin Sick GmbH Optik-Elektronik. Apparatus for determining the transit time of ultrasonic pulses in a fluid. 4,644,483, 2-17-87, Cl. 364-569.000.
- Lauer, Robert J., to Schindler Haughton Elevator Corporation. Elevator power supply and drive system. 4,657,117, 4-14-87, Cl. 187-114.000.
- Laufer, Helmut, to Robert Bosch GmbH. Fuel injection pump. 4,711,221, 12-8-87, Cl. 123-503.000.
- Laufer, Helmut: *See—*
  - Bohringer, Wilfried; Eheim, Franz; Hofer, Gerald; Konrath, Karl; and Laufer, Helmut, 4,649,883, Cl. 123-449.000.
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  - Eckert, Konrad; Eisele, Hermann; Laufer, Helmut; and Straubel, Max, 4,655,184, Cl. 123-458.000.
- Lauffer, Donald K.; and Sanwo, Ikuo J., to NCR Corporation. Temperature compensated CMOS to ECL translator. 4,656,375, 4-7-87, Cl. 307-475.000.
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- Lauffer, Donald K.: *See—*
  - Sanwo, Ikuo J.; Lauffer, Donald K.; and Tipon, Donald G., 4,704,549, Cl. 307-475.000.
- Laufhutte, Dieter; Schupphaus, Klaus; Trowe, Gunter; Kosske, Wolf D.; and Hubel, Friedrich, to Carl Still GmbH & Co. KG, Firma. Method and device for fine desulfurization of coke oven gas. 4,663,134, 5-5-87, Cl. 423-220.000.
- Laugesen, Ronald C.; and Venkitakrishnan, Padmanabha I., to Advanced Micro Devices, Inc. Bit-sliced, dual-bus design of integrated circuits. 4,641,247, 2-3-87, Cl. 364-490.000.
- Laughlin, J. Larry: *See—*
  - Davis, John W.; Corley, Harvey D.; Boudreau, Michael P.; and Laughlin, J. Larry, 4,651,258, Cl. 362-147.000.
- Laughlin, Patrick E. Dental flossing tool. 4,655,233, 4-7-87, Cl. 132-91.000.
- Laughlin, Raymond S.: *See—*
  - Carraro, Eugene; and Laughlin, Raymond S., 4,715,161, Cl. 52-714.000.
- Laughner, Michael K., to Dow Chemical Company, The. Polyurethane elastomers prepared from high equivalent weight polyahls. 4,687,851, 8-18-87, Cl. 544-398.000.
- Laughrey, James C. Cover for cooking stove heating element. 4,634,841, 1-6-87, Cl. 219-464.000.
- Laughry, David L.: *See—*
  - Mueller, Richard A.; and Laughry, David L., 4,685,191, Cl. 29-523.000.
- Laugier, Jean-Pierre: *See—*
  - Bouillon, Claude; Lang, Gerard; and Laugier, Jean-Pierre, 4,671,956, Cl. 424-59.000.
- Laugier, Noel: *See—*
  - Berthet, Hubert; and Laugier, Noel, 4,708,526, Cl. 405-202.000.
- Laugier, Serge: *See—*
  - Richon, Dominique; and Laugier, Serge, 4,688,436, Cl. 73-864.810.
- Laugs, Johannis A. B.; Van Den Berg, Gerrit; Van Daalen, Peter A.; and Reinders, Edward D., to N.K.F. Groep B.V. Apparatus for and method of making the cable core of a telecommunication cable water-tight in the longitudinal direction. 4,690,718, 9-1-87, Cl. 156-48.000.
- Lauhoff, Theodor: *See—*
  - Barzantny, Joachim; Lauhoff, Theodor; and Thissen, Klaus, 4,668,170, Cl. 417-50.000.
- Lauk, Willi, to Allpack Industrielle Lohnverpackung GmbH & Co. KG. Pharmaceutical adhesive plaster and method for manufacturing it. 4,695,277, 9-22-87, Cl. 604-304.000.
- Lauke, Arno, to BASF Farben & Fasern AG. Apparatus for making an electro-immersion finish by forced circulation of a liquid bath in a tank. 4,659,450, 4-21-87, Cl. 204-299.0EC.
- Laukenmann, Erich; and Bardroff, Hans, to Preh Industrieausrustungen GmbH. X-Y positioner. 4,655,442, 4-7-87, Cl. 269-73.000.
- Laukien, Gunther R.: *See—*
  - Zeiger, Heinz; and Laukien, Gunther R., 4,698,594, Cl. 324-309.000.
- Laukkarinen, Tuomo: *See—*
  - Savolainen, Esko; Laukkarinen, Tuomo; Lehto, Arto; Oksman, Erkki; and Eilamo, Unto, 4,636,181, Cl. 474-207.000.
- Lauletta, John L.: *See—*
  - Hayes, Raymond M.; Kirkpatrick, Thomas L.; Lauletta, John L.; Shuter, Timothy C.; and Vollkommer, Harry T., Jr., 4,667,152, Cl. 324-77.00R.
- Laumann, Curt W.: *See—*
  - Sun, Shu S.; and Laumann, Curt W., 4,649,519, Cl. 365-122.000.
- Laumeister, William: *See—*
  - Nichols, William E.; Herzog, William F.; Feldman, Neil; and Laumeister, William, 4,698,664, Cl. 358-10.000.
- Laun, Martin: *See—*
  - Bung, Richard; Haas, Klaus; Laun, Martin; Schmidt, Franz; and Welzel, Gerhard, 4,654,396, Cl. 524-401.000.
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- Launes, Joaquin J., to Play, S. A. Reclinable children's chair. 4,709,960, 12-1-87, Cl. 297-250.000.
- Launie, Kenneth J., to Polaroid Corporation. Latching mechanism for photographic apparatus. 4,659,204, 4-21-87, Cl. 354-288.000.
- Lauper, Daniel, to Interdica S.A. Hidden clasp for a bracelet, particularly for a wrist-watch. 4,670,947, 6-9-87, Cl. 24-71.00J.
- Laupie, Jean-Michel: *See—*
  - Denis, Jacques; Sillion, Bernard; Damin, Bernard; and Laupie, Jean-Michel, 4,664,676, Cl. 44-62.000.
- Laur, Gerhard: *See—*
  - Janssen, Bernd; Karbach, Stefan; Meyer, Norbert; and Laur, Gerhard, 4,652,580, Cl. 514-383.000.
- Laura Lupton, Inc.: *See—*
  - Ladd, James E., Jr.; and Jacobs, David R., 4,647,240, Cl. 401-123.000.
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- Lauraire, Michel: *See—*
  - Belbel, Elie; Baron, Thierry; Blanchard, Christian; Haury, Andre; and Lauraire, Michel, 4,635,022, Cl. 337-158.000.
  - Belbel, Elie; Caudron, Robert; Fechant, Louis; Haury, Andre; Lauraire, Michel; Muniesa, Jacques; and Siffroi, Lucien, 4,638,275, Cl. 335-151.000.
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- Laure, Christian: *See—*
  - Leseure, Jean-Yves; Pierre, Charbonnel; and Laure, Christian, 4,638,167, Cl. 250-551.000.
- Laure Prosthetics, Inc.: *See—*
  - Steffee, Arthur D., 4,642,122, Cl. 623-21.000.
- Laureate Innovations, Inc.: *See—*
  - Lubeck, Joseph G., 4,657,257, Cl. 273-148.00R.
  - Lubeck, Joseph G., 4,705,274, Cl. 273-148.00R.

- Laurel Bank Machine Co., Ltd.: *See*—
  - Arikawa, Junichi; Chiba, Hiroshi; Miyazaki, Osamu; and Osanai, Masatoshi, 4,639,582, Cl. 235-379.000.
  - Honma, Nobuyuki; and Shinozaki, Takashi, 4,675,514, Cl. 235-379.000.
  - Honma, Nobuyuki, 4,693,464, Cl. 271-265.000.
  - Kokubo, Eiichi; Osako, Kyoichi; Hirata, Akira; Oshita, Mizuo; Ito, Toshiaki; Seki, Kazuyuki; Yoshikawa, Eiichi; and Miyazaki, Osamu, 4,699,272, Cl. 209-534.000.
  - Miyagawa, Tuyoshi; Hibari, Eiko; and Kagami, Mitsuharu, 4,677,682, Cl. 382-7.000.
  - Uematsu, Yoshiaki; and Sentoku, Hideshi, 4,635,661, Cl. 133-3.00R
- Laurello, Vincent P., to United Technologies Corporation. Stator structure for supporting an outer air seal in a gas turbine engine. 4,643,638, 2-17-87, Cl. 415-136.000.
- Laurello, Vincent P.: *See*—
  - Baran, Walter J., Jr.; Chaplin, Gary F.; and Laurello, Vincent P., 4,648,792, Cl. 415-139.000.
  - Brodell, Robert F.; and Laurello, Vincent P., 4,653,267, Cl. 60-39.020.
- Lauren Manufacturing Company: *See*—
  - Norman, George R., 4,699,703, Cl. 204-196.000.
- Laurence, Jeffrey C., to Cornell Research Foundation, Inc. Human T cell hybridomas which produce immunosuppressive factors. 4,665,032, 5-12-87, Cl. 435-240.000.
- Laurent, Henry; and Wiechert, Rudolf, to Schering Aktiengesellschaft. 17α-alkyl-17β-hydroxy-1α-methyl-4-androsten-3-ones, their production and use pharmaceutically. 4,673,673, 6-16-87, Cl. 514-178.000.
- Laurent, Henry; Bittler, Dieter; Beier, Sybille; and Elger, Walter, to Schering Aktiengesellschaft. 3,17 β-estriol diesters, methods of their use, and pharmaceutical preparations containing them. 4,681,875, 7-21-87, Cl. 514-182.000.
- Laurent, Henry: *See*—
  - Annen, Klaus; Laurent, Henry; Hofmeister, Helmut; Wiechert, Rudolf; and Wendt, Hans, 4,645,763, Cl. 514-178.000.
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  - Hofmeister, Helmut; Annen, Klaus; Laurent, Henry; and Wiechert, Rudolf, 4,708,823, Cl. 260-397.400.
- Laurent, Jean: *See*—
  - Dedole, Pascal; Grolet, Pierre; and Laurent, Jean, 4,648,478, Cl. 181-106.000.
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  - Torck, Bernard; Amigues, Pierre; Glaize, Yves; Grangette, Henri; Laurent, Jean; and Fitoussi, Fred, 4,647,703, Cl. 568-697.000.
- Laurent, Yves: *See*—
  - Colin, Yves; Rosse, Gabriel; Guyader, Jean; and Laurent, Yves, 4,695,432, Cl. 422-98.000.
- Laurer, Gerard R., to New York University. Radiation detector. 4,639,600, 1-27-87, Cl. 250-363.00S.
- Lauri, Vaino G.: *See*—
  - Teder, Leonid O.; Org, Tiit A.; Lauri, Vaino G.; and Aas, Ants J., 4,637,102, Cl. 24-642.000.
- Lauria, Vincent A., to National Starch and Chemical Corporation. Remoistenable adhesive compositions. 4,678,824, 7-7-87, Cl. 524-48.000.
- Lauridsen, Christian L.: *See*—
  - Hall, David R.; Hall, H. Tracy, Jr.; and Lauridsen, Christian L., 4,662,348, Cl. 125-30.00R.
- Laurie, Donald H.: *See*—
  - White, Dowell; Craig, Daniel L.; Duke, Jack L.; and Laurie, Donald H., 4,637,211, Cl. 60-650.000.
- Laurien, Hanno: *See*—
  - Sundermann, Erich; Laurien, Hanno; Vahlbrauk, Wolfgang; and Reye, Hans, 4,664,623, Cl. 432-14.000.
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- Laurien, Rolf: *See*—
  - Mateika, Werner D.; Laurien, Rolf; and Liehr, Manfred R., 4,687,646, Cl. 422-248.000.
- Laurin, Dean; and Stupar, James, to Baxter Travenol Laboratories, Inc. Antimicrobial compositions. 4,677,143, 6-30-87, Cl. 523-122.000.
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  - Jortikka, Markku J.; Forss, Eino H.; Heino, Harry A.; Lapinen, Erkki A.; Putkonen, Erkki E.; Julkunen, Toivo E.; and Laurio, Timo, 4,676,826, Cl. 75-51.100.
- Lauritano, Giuseppe. Tool for torquing rotatable members. 4,704,779, 11-10-87, Cl. 29-240.000.
- Lauritsen, Keith E.: *See*—
  - Korb, Louis L.; and Lauritsen, Keith E., 4,676,944, Cl. 264-325.000.
- Lauro, Charles W.: *See*—
  - Wise, Robert D.; Quinlan, Robert L., Jr.; Lauro, Charles W.; and Bradd, Sidney H., Jr., 4,655,506, Cl. 297-467.000.
- Laurona Armas, S.A.: *See*—
  - Zamacola, Eduardo I., 4,642,927, Cl. 42-42.010.
- Laursen, Henning; Mosgaard, John; Nielson, Otto V.; and Poland, Clark L., to Scan Web of North America, Inc. System for producing an air laid web. 4,640,810, 2-3-87, Cl. 264-518.000.
- Laursen, Jorn: *See*—
  - Klomfass, Roy D., 4,707,015, Cl. 296-1.00S.
- Laursen, Nils K., to Shell Oil Company. Method and apparatus for the installation of a hose between a platform and a submerged buoy. 4,643,614, 2-17-87, Cl. 405-169.000.
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  - Duenisch, Ingo; and Lausch, Michael, 4,672,268, Cl. 313-633.000.
- Lauscher, Friedrich: *See*—
  - Graef, Kurt; Axt, Egon; Wirtz, Hans-Peter; Lauscher, Friedrich; Potzsch, Werner; Korfer, Peter; Sastraruhardja, Paulus; Croonen, Werner; and Serf, Josef, 4,649,763, Cl. 74-763.000.
- Lause, Joachim: *See*—
  - Ramloch, Herbert; Seidel, Manfred; Lause, Joachim; and Waldmann, Karl, 4,658,052, Cl. 560-155.000.
- Lausmaa, Jukka: *See*—
  - Branemark, Per-Ingvar; Kasemo, Bengt; and Lausmaa, Jukka, 4,712,681, Cl. 206-438.000.
- Lauson, David J.: *See*—
  - Chapman, Harry A.; and Lauson, David J., 4,684,885, Cl. 324-73.00R.
- Laustsen, Mads A.; and Kummel, Karen, to A/S Hellesens. Electrical battery. 4,714,664, 12-22-87, Cl. 429-105.000.
- Laut, Marvin, to GTE Laboratories, Incorporated. Ring-connected circuit module assembly. 4,700,274, 10-13-87, Cl. 361-393.000.
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  - Lautenschlager, Karl, Jr.; and Lautenschlager, Gerhard, 4,654,930, Cl. 16-288.000.
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- Lautenschlager, Hans-Heiner; Parnham, Michael J.; Leyck, Sigurd; Winkelmann, Johannes; and Brekle, Axel, to A. Nattermann & CIE GmbH. Omega-aryl-alkylthienyl-compounds and process for the treatment of chronically inflammatory processes in humans. 4,705,802, 11-10-87, Cl. 514-438.000.
- Lautenschlager, Horst, to Karl Lautenschlager GmbH & Co. KG. Drawer guide. 4,639,145, 1-27-87, Cl. 384-19.000.
- Lautenschlager, Horst, to Karl Lautenschlager KG, Mobelbeschlagfabrik. Cabinet hinge. 4,641,393, 2-10-87, Cl. 16-241.000.
- Lautenschlager, Horst: *See*—
  - Lautenschlager, Karl, Jr.; and Lautenschlager, Horst, 4,698,877, Cl. 16-235.000.
- Lautenschlager, Karl, to Karl Lautenschlager KG, Mobelbeschlagfabrik. Mounting plate for furniture hardware, especially cabinet hinges. 4,642,846, 2-17-87, Cl. 16-382.000.
- Lautenschlager, Karl, Jr., to Karl Lautenschlager KG. Adjustable arcuated cabinet hinge. 4,653,144, 3-31-87, Cl. 16-239.000.
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  - Conradty, Claudio; Zollner, Dieter; Lauterbach-Dammler, Inge; and Taube, Thomas, 4,639,928, Cl. 373-93.000.
  - Wilhelmi, Herbert; Kegel, Kurt; Conradty, Claudio; Zollner, Dieter; Lauterbach-Dammler, Inge; and Rittmann, Friedrich, 4,675,878, Cl. 373-90.000.
  - Wilhelmi, Herbert; Kegel, Kurt; Zollner, Dieter; Lauterbach-Dammler, Inge; Taube, Thomas; and Rittman, Friedrich, 4,710,607, Cl. 219-121.00P.
- Lauterbach, George E.: *See*—
  - Tye, Richard J.; Lauterbach, George E.; and Standel, Philip R., 4,698,172, Cl. 252-70.000.
- Lauterbach, Heinz; Kienzle, Wolfgang; and Ziegler, Ewald, to Robert Bosch GmbH. Fuel injection system. 4,660,531, 4-28-87, Cl. 123-456.000.
- Lauterbach, Horst, to Ciba-Geigy Corporation. Curable epoxy resin composition. 4,670,533, 6-2-87, Cl. 528-94.000.
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  - Mulhaupt, Rolf; Renner, Alfred; and Lauterbach, Horst, 4,713,428, Cl. 525-523.000.
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  - Schieber, Franz; Zollner, Dieter; Lauterbach, Inge; Koziol, Konrad; Zollner, Christine; and Taube, Thomas, 4,698,825, Cl. 373-93.000.
- Lautzenhiser, John L. Gas-actuated shock absorber for aircraft. 4,657,228, 4-14-87, Cl. 267-64.150.
- Lauvin, Pierre: *See*—
  - Gallot, Jean-Claude; Lauvin, Pierre; and Lombard, Roger, 4,671,222, Cl. 123-90.270.

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  Satzger, Viktor; Guhr, Volker; and Laux, Gerhard, 4,698,957, Cl. 57-96.000.

aux, Joseph J.: *See—*
  Woo, Edmund P.; and Laux, Joseph J., 4,667,050, Cl. 558-366.000.

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Laval, Francois; Madec, Pierre J.; and Marechal, Ernest, to Commissariat a l'Energie Atomique. Process for the preparation of polyphenol derivatives and dermatives obtained thereby. 4,647,642, 3-3-87, Cl. 528-25.000.

Lavallee, Francois A., to Essex Group, Inc. Titanium chelate modified nylon magnet wire insulation coating. 4,670,523, 6-2-87, Cl. 525-420.000.

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  LaValley, Richard W., 4,670,099, Cl. 162-60.000.
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Lave, Daniel: *See—*
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Lavelette, William J. Shingle removing machine. 4,709,479, 12-1-87, Cl. 30-170.000.

Lavelle, Mathew E., to Boeing Company, The. Spinning linear polarization radar mapping method. 4,660,044, 4-21-87, Cl. 342-188.000.

Lavelle, Michael G., to Motorola Computer Systems, Inc. Video memory controller. 4,642,789, 2-10-87, Cl. 364-900.000.

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Lavely, Daniel, to Rockwell International Corporation. Rod actuator for automatic slack adjusting mechanisms. 4,693,342, 9-15-87, Cl. 188-79.50K.

Lavendel, Henry W.; and Robinson, John C., to Lockheed Missiles & Space Company, Inc. Method of bonding two substrate faces utilizing boron-silicon-hydrogen alloy films. 4,689,104, 8-25-87, Cl. 156-325.000.

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Lavene, Bernard, to Electronic Concepts, Inc. Capacitor forming and manufacturing method. 4,685,026, 8-4-87, Cl. 361-308.000.

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Lavengood, Richard E.; Padwa, Allen R.; and Harris, Alva F., to Monsanto Company. Rubber modified nylon composition. 4,713,415, 12-15-87, Cl. 525-66.000.

Lavens, Thomas R.; Corrigan, Francis R.; Shott, Richard L.; and Bovenkerk, Harold P., to General Electric Company. Re-sintered boron-rich polycrystalline cubic boron nitride and method for making same. 4,673,414, 6-16-87, Cl. 51-293.000.

Lavergnat, Jacques; and Dechambre, Monique, to Etat Francais. Frequency measurement method and device. 4,670,712, 6-2-87, Cl. 324-78.00R.

Lavergne, Robert. Fire-arm safety device. 4,654,992, 4-7-87, Cl. 42-70.010.

Lavergnolle, Arnaud F.: *See—*
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Laverick, William J., to Wizer Equipment, Inc. Light table. 4,654,762, 3-31-87, Cl. 362-97.000.

Laverty, Martin J., Jr., to Coyne & Delany Co. Disabler system for plumbing fixture. 4,709,427, 12-1-87, Cl. 4-427.000.

Lavi, Yoav, to Simulog, Inc. Hardware logic simulator. 4,697,241, 9-29-87, Cl. 364-488.000.

Laviano, Edmund: *See—*
  Weissman, Bernard; and Laviano, Edmund, 4,674,545, Cl. 140-102.000.

Lavie, Louis F., to Dridrinks N.V. Pulverulent water-soluble nonhygroscopic composition for preparing beverages with a lasting effervescence and method for preparing the same. 4,716,046, 12-29-87, Cl. 426-96.000.

Lavie, Ram, to Technion Research & Development Foundation Ltd.; and Lavie, Ram. Method for heat and mass exchange operations. 4,661,133, 4-28-87, Cl. 62-18.000.

Lavigne, Ronald L. Treatment system for landfill leachate. 4,678,582, 7-7-87, Cl. 210-150.000.

Laville, Bernard; and Prouteau, Philippe, to Etablissements Farnier & Penin. Opening roof arrangement for a motor vehicle roof. 4,696,511, 9-29-87, Cl. 296-216.000.

Lavin, Joseph J. Apparatus and method for executing orthodontic procedure. 4,668,192, 5-26-87, Cl. 433-205.000.

Laviron, Andre, to Commissariat a l'Energie Atomique. Apparatus for the simulation of the failure or satisfactory operation of a logic system. 4,669,083, 5-26-87, Cl. 371-23.000.

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Law, Kirk A.; and Harwood, Leopold A., to RCA Corporation. Vertical transition processor for a comb filter. 4,694,331, 9-15-87, Cl. 358-31.000.

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  Harwood, Leopold A.; and Law, Kirk A., 4,634,984, Cl. 328-112.000.

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Lawson, Alexander, to Ontario Research Foundation. Diesel particulate traps. 4,671,059, 6-9-87, Cl. 60-309.000.

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Bernard, Daniel, 4,633,551, Cl. 29-25.420.
Turolla, Jean-Pierre; and Belin, Simone, 4,646,037, Cl. 333-182.000.
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Delachapelle, Henri L., 4,670,223, Cl. 422-122.000.
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Maze, Gwenael; Carree, Jean-Yves; and Poulain, Marcel, 4,661,413, Cl. 428-432.000.
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Norris, Richard G.; Webb, Monty F.; and Le, Vinh Q., 4,685,120, Cl. 379-26.000.
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Lea, Richard P.; and Lea, Randy J., 4,633,678, Cl. 62-457.000.
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Jackson, Kenneth R.; and Tofigh, Farshid, 4,695,917, Cl. 361-58.000.
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Leach, Eugene R.; Robbins, James A.; Helton, Steven B.; and Webb, Jeffrey J., to Battelle Memorial Institute. Underwater computer. 4,658,358, 4-14-87, Cl. 364-418.000.
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Leachman, Frank A., Jr., to Chandler Evans Inc. Vapor core centrifugal pump having main and low flow impellers. 4,643,635, 2-17-87, Cl. 415-1.000.
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Kadogawa, Kouji; and Watanabe, Tsunenori, 4,691,398, Cl. 12-77.000.
Leader, Raymond E.: *See*—
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Leaders Heat Products: *See*—
Resh, Dale R., 4,669,396, Cl. 110-233.000.
Leadvaro, Stephen J.: *See*—
English, George J.; Gagnon, Peter R.; and Leadvaro, Stephen J., 4,668,204, Cl. 445-26.000.
Leaf, Ronn J.: *See*—
Allen, Clifford W., Jr.; and Leaf, Ronn J., 4,669,960, Cl. 417-63.000.
Leaf, Sallie. Hospital-type gown with front and rear openings. 4,653,120, 3-31-87, Cl. 2-114.000.
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Reis, Daniel S., 4,674,472, Cl. 124-89.000.
Leahy, Ronald S.: *See*—
Bishop, F. Avery; and Leahy, Ronald S., 4,638,493, Cl. 375-1.000.
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Hudson, James H., 4,649,948, Cl. 137-15.000.
Leake, Oran R., *Jr.*: *See*—
Bartlett, William T., 4,675,968, Cl. 29-254.000.
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Russell, Michael K.; Wesenberg, Donald L.; and Leaney, Peter A., 4,694,555, Cl. 29-451.000.
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DiNinno, Frank P.; Leanza, William J.; Ratcliffe, Ronald W.; and Muthard, David A., 4,675,317, Cl. 514-192.000.
Leaphart, C. Mark. Laundering bag for paired items. 4,714,353, 12-22-87, Cl. 383-117.000.
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Maytum, Michael J.; and Lear, Anthony, 4,673,844, Cl. 315-200.00R.
Lear Fan Limited: *See*—
Loyek, Ernie F., 4,715,560, Cl. 244-177.00R.
Lear Siegler, Inc.: *See*—
Cherry, Herbert J., 4,700,968, Cl. 280-704.000.
Hagan, Lyle M.; and Pierce, William C., 4,634,141, Cl. 280-704.000.
Horn, John, 4,700,920, Cl. 248-370.000.
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Knapp, Johnn P., 4,673,327, Cl. 414-408.000.
Kozlowski, Eric F.; and Kruger, Edmund R., 4,692,199, Cl. 156-245.000.
Murphy, Randal T., 4,664,444, Cl. 297-284.000.
Pareja, Ramon, 4,712,584, Cl. 138-30.000.
Pierce, William C.; and Smith, John P., 4,693,486, Cl. 280-80.00R.
Routson, Gregory S., 4,694,703, Cl. 74-5.00F.
Stamper, James F., 4,684,076, Cl. 242-100.100.
Surletta, Zygmunt M., 4,657,231, Cl. 267-107.000.
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Barnes, Stephen R.; Galer, Donald R.; and Leard, Richard S., 4,674,517, Cl. 128-663.000.
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Learn, Arthur J.; and DuBois, Dale R., to Anicon, Inc. Chemical vapor deposition wafer boat. 4,694,778, 9-22-87, Cl. 118-728.000.
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Brasch, William R., 4,681,630, Cl. 106-1.110.
Nobel, Fred I.; and Schram, David N., 4,640,746, Cl. 204-15.000.

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  - Nobel, Fred I.; and Ostrow, Barnet D., 4,701,244, Cl. 204-44.400.
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- Leary, David F., to Raychem Corporation. PTC heater assembly. 4,673,801, 6-16-87, Cl. 219-544.000.
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  - Ward, David C.; Leary, Jeffry J.; and Brigati, David J., 4,687,732, Cl. 435-6.000.
- Leary, Sharon M.; Steward, John C.; Commisso, Nicholas D.; De Cook, Edwin R.; Hisle, Ralph E.; and Rowe, Donald, to McDonald's Corporation. Dual compartment sandwich package. 4,653,685, 3-31-87, Cl. 229-2.50R.
- Leary, Timothy G.: *See*—
  - Donegan, Thomas E.; and Leary, Timothy G., 4,709,021, Cl. 540-141.000.
- Lease, Michael E.: *See*—
  - Rosser, Dale M.; and Lease, Michael E., 4,691,410, Cl. 17-11.000.
- Leaseburge, Emory J.; and Mehla, Kenneth J., to Combustion Engineering, Inc. Sample dilution system for supercritical fluid chromatography. 4,681,678, 7-21-87, Cl. 210-101.000.
- Leaseburge, Emory J.; and Thomas, Thomas J., to Combustion Engineering, Inc. Supercritical fluid chromatograph with pneumatically controlled pump. 4,684,465, 8-4-87, Cl. 210-198.200.
- Leathers, Joel F. M.: *See*—
  - Dang, Hiep D.; Hicks, Roy L.; and Leathers, Joel F. M., 4,660,308, Cl. 38-102.400.
- Leathers, Thomas M.: *See*—
  - Pontolese, Larry A.; and Leathers, Thomas M., 4,691,730, Cl. 137-101.000.
- L'eau Claire Systems, Inc.: *See*—
  - Boze, Ronald A.; and Warning, Theodore A., 4,704,210, Cl. 210-778.000.
- Leaver, Ian H.: *See*—
  - Evans, Neil A.; Leaver, Ian H.; Rosevear, Judi; Waters, Peter J.; and Wilshire, John F. K., 4,668,235, Cl. 8-115.580.
- Leaver, James M. Continuous modular panel and panel assembly for building walls and method of construction. 4,691,490, 9-8-87, Cl. 52-293.000.
- Leaver, William H.: *See*—
  - Gilmore, William N., Jr.; and Leaver, William H., 4,659,235, Cl. 374-143.000.
- Leavitt, Joel: *See*—
  - Kuehneman, Gary; and Leavitt, Joel, 4,688,020, Cl. 340-365.0VL.
- Leavitt, Michael; and Huls, David S., to Hamilton House Marketing, Inc. Cheese product and method of manufacture. 4,680,181, 7-14-87, Cl. 426-36.000.
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  - Narusch, Michael J., Jr.; and LeBail, Stanley G., 4,698,269, Cl. 428-552.000.
- Leban, Marzio A.: *See*—
  - Hackleman, David E.; Nielsen, Ralph H., Jr.; and Leban, Marzio A., 4,664,746, Cl. 156-628.000.
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- Le Bars, Claude: *See*—
  - Guillermet, Robert; Ladet, Michel; Laslaz, Gerard; and Le Bars, Claude, 4,681,665, Cl. 204-14.100.
- Lebas, Jean-Marie; Rat, Pierre; Dupont, Jean-Marcel; and Vinuesa, Germain, to Basset Bretagne Loire - B.B.L.; and Societe Nationale des Poudres et Explosifs. Method of manufacturing articles of compacted powder. 4,710,329, 12-1-87, Cl. 264-3.100.
- Lebas, Jean-Marie: *See*—
  - Ollivaud, Bernard; and Lebas, Jean-Marie, 4,658,637, Cl. 73-61.300.
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- Leber, David C.; and Falk, Timothy L., to Tektronix, Inc. Printed polymer circuit board method. 4,694,572, 9-22-87, Cl. 29-840.000.
- Leber, Leland C.; and Tenhulzen, Neal L., to Teledyne Industries, Inc. Ultraviolet dosimetry. 4,704,535, 11-3-87, Cl. 250-372.000.
- Le Berre, Serge: *See*—
  - Boulitrop, Francois; Chartier, Eric; Mourey, Bruno; and Le Berre, Serge, 4,697,331, Cl. 437-82.000.
  - Hehlen, Robert; Hareng, Michel; Le Berre, Serge; and Mourey, Bruno, 4,673,256, Cl. 350-350.00S.
- Le Bescont, Herve: *See*—
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- Lebet, Jean-Pierre: *See*—
  - Charmillot, Rene; and Lebet, Jean-Pierre, 4,649,935, Cl. 128-783.000.
- Lebetzki, Egon: *See*—
  - Schneider, Hartmut; Lebetzki, Egon; and Vogt, Wolfram, 4,645,451, Cl. 431-278.000.
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  - Negra, Serge D.; and Le Beyec, Yvon, 4,677,295, Cl. 250-287.000.
- Lebizay, Gerald, to International Business Machines Corporation. Cross-point switch of multiple autonomous planes. 4,695,999, 9-22-87, Cl. 370-58.000.
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  - Tam, Le Dinh C.; Garceau, Roger; and Leblanc, Andre, 4,673,982, Cl. 358-167.000.
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  - Joly, Jean; Oehlert, Yves; Neyroud, Jean; Penot, Oliver; Pergent, Jacky; Barillier, Gilbert; and LeBlanc, Bernard, 4,692,842, Cl. 361-413.000.
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  - LeBlanc, James R., 4,640,563, Cl. 339-32.00M.
- LeBlanc, Gerard J. Safety ladder device. 4,643,275, 2-17-87, Cl. 182-107.000.
- LeBlanc, Guy: *See*—
  - Bryson, Neil B.; Auchterlonie, David T. T.; LeBlanc, Guy; and Newberry, Vincent J., 4,709,744, Cl. 164-472.000.
- LeBlanc, J. T. Foldable shelter system and method of construction. 4,696,132, 9-29-87, Cl. 52-69.000.
- LeBlanc, James A.; and Durre, Reynold F., to Donaldson Company, Inc. Air filtering apparatus. 4,704,144, 11-3-87, Cl. 55-300.000.
- LeBlanc, James R., to LeBlanc Corporation, The. Universal clasp structure for external electrode probes. 4,640,563, 2-3-87, Cl. 339-32.00M.
- Leblanc, Jean; Pigeroulet, Jean; and Rossignol, Francois, to Robert Bosch GmbH. Pump/nozzle unit for fuel injection in internal combustion engines. 4,648,556, 3-10-87, Cl. 239-88.000.
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- LeBlanc, Jean, to Robert Bosch GmbH. Fuel injection pump. 4,696,271, 9-29-87, Cl. 123-299.000.
- Leblanc, Jean: *See*—
  - Cigolotti, Jean-Pierre; and Leblanc, Jean, 4,634,109, Cl. 267-170.000.
- LeBlanc, Leo J.: *See*—
  - Klop, Elmer P.; and LeBlanc, Leo J., 4,646,773, Cl. 137-68.100.
- Leblanc, Marie-Christine: *See*—
  - Roca, Yves; Rousset, Jacky; Bouchat, Pierre; Leblanc, Marie-Christine; and Baffreau, Daniel, 4,681,634, Cl. 106-90.000.
- LeBlanc, Michelle M.; Parker, James F.; Rabbit, Charles F.; and Wallace, Donald J., to University of Florida. Hydrometer for determination of immunoglobulin content of mare colostrum. 4,688,426, 8-25-87, Cl. 73-450.000.
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- LeBlanc, Richard S., to General Motors Corporation. Weapon system. 4,660,704, 4-28-87, Cl. 193-38.000.
- LeBlanc, William K.: *See*—
  - Kaiser, Willard D.; Koenig, Mark J.; and LeBlanc, William K., 4,633,702, Cl. 73-9.000.
- LeBleu, Julien, Jr.: *See*—
  - Lewis, David W.; Moore, James W.; and LeBleu, Julien, Jr., 4,643,592, Cl. 384-100.000.
- LeBlon, Hubert. Coaxial multi-function insertable cartridge valve. 4,706,547, 11-17-87, Cl. 91-420.000.
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- LeBlond, Claude: *See*—
  - Gerber, Heinz J.; and LeBlond, Claude, 4,667,553, Cl. 83-389.000.
- LeBlond, Henri; and Cabot, Louis, to Badin Crouzet Aerodrom de Toussus-le-Noble. Multi-function pressure probe for aircraft. 4,672,846, 6-16-87, Cl. 73-180.000.
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  - LeBlond, Charles E.; and LeBlond, Henri, 4,634,189, Cl. 301-63.0PW.
- Leblong, Wayne T.: *See*—
  - Anthony, Jack; Bilstad, Arnold C.; Leblong, Wayne T.; and Kruger, Robert J., 4,714,595, Cl. 422-294.000.
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  - Mastronardo, Patrick, 4,705,169, Cl. 206-387.000.
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Lebold, John R., to Vernay Laboratories, Inc. Fuel inlet assembly for a carburetor. 4,702,215, 10-27-87, Cl. 123-514.000.

Lebonvallet, Jean-Louis, to Usinor. Process and installation for the continuous control of a blast-furnace. 4,668,285, 5-26-87, Cl. 75-41.000.

LeBorgne, Jose: *See—*
Bouvot, Jean-Francois; and LeBorgne, Jose, 4,638,723, Cl. 92-48.000.
Bouvot, Jean-Francois; and LeBorgne, Jose , 4,703,684, Cl. 92-48.000.

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Leboure, Gerald J. P. B.: *See—*
Barbier, Gerard Y. G.; Leboure, Gerald J. P. B.; Desaulty, Michel A. A.; Martinez, Rodolphe; and Perigne, Jerome, 4,696,157, Cl. 60-39.230.

Leboutet, Hubert: *See—*
Aucouturier, Jeanne; Leboutet, Hubert; and Pourre, Jean-Louis, 4,682,114, Cl. 328-67.000.

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Lec Tec Corporation: *See—*
Hymes, Alan C.; Ong, Lincoln T.; and Persons, Garry R., 4,675,009, Cl. 604-304.000.
Kuhn, Nicholas J., 4,657,023, Cl. 128-640.000.
Ong, Lincoln, 4,633,879, Cl. 128-641.000.

Le Caer, Gerard; and Dubois, Jean-Marie, to Centre National de la Recherche Scientifique. Amorphous aluminum-based alloys. 4,710,246, 12-1-87, Cl. 148-403.000.

LeCalvez, Jean P.: *See—*
Flament, Gerard; and LeCalvez, Jean P., 4,669,921, Cl. 406-14.000.

Le-Carpentier, Alex; and Davis, Brian. Device for displaying artwork. 4,672,758, 6-16-87, Cl. 40-152.100.

Leccese, Antonio: *See—*
Mayr, Adolfo; Susa, Ermanno; Leccese, Antonio; Davoli, Velmore; and Giachetti, Ettore, 4,636,486, Cl. 502-121.000.

Lecendre, Fuddy: *See—*
Brun, Chalres G. H.; Bailleul, Jean F.; Lecendre, Fuddy; and Coolen, Franueine, 4,663,956, Cl. 72-167.000.

Lecerf, Jean-Pierre; Favey, Charles; and Meurice, Pierre, to Centre Technique des Industries Mecaniques. Electrofluidic transducer of the nozzle/plate type and hydraulic servo-valve equipped with such a transducer. 4,705,059, 11-10-87, Cl. 137-82.000.

Lech, Thaddeus, Jr., to Borg-Warner Corporation. Multi-stage torsional damping device. 4,643,287, 2-17-87, Cl. 192-106.200.

Lech, Thaddeus, Jr.; and Mullard, Bruce A., to Borg-Warner Automotive, Inc. Clutch driven plate assembly with anti-backlash damping. 4,679,679, 7-14-87, Cl. 192-106.200.

Lech, Thaddeus, Jr.: *See—*
Frantz, Robert A.; and Lech, Thaddeus, Jr., 4,651,859, Cl. 192-106.200.

Lechaczynski, Michel A.: *See—*
Duforestel, Guy G.; Lechaczynski, Michel A.; Poiraud, Clement Y.; and Viallon, Paul P., 4,680,733, Cl. 364-900.000.

Lechat, Jacques: *See—*
Bossaert, Bernard; Lepert, Andre; Lechat, Jacques; Hughes, Vincent L.; and Yap, Raymond C. C., 4,650,829, Cl. 525-99.000.
Luvinh, Quoc; Lechat, Jacques; Evans, Morris L.; and Lepert, Andre, 4,636,555, Cl. 526-290.000.

le Chatelier, Robert; Sinic, Andre ; and Diefenbach, Jean-Jacques, to Precision Mecanique Labinal. Deflating device for pneumatic tires of vehicles. 4,696,334, 9-29-87, Cl. 152-417.000.

Lechaton, John S.; Malaviya, Shashi D.; Schepis, Dominic J.; and Srinivasan, Gurumakonda R., to International Business Machines Corporation. Total dielectric isolation for integrated circuits. 4,661,832, 4-28-87, Cl. 357-49.000.

Lecheheb, Ammar: *See—*
Doyle, James J.; and Lecheheb, Ammar, 4,688,049, Cl. 346-1.100.

Lecher, Theodore R., to Perlick Company, Inc., The. Bottle trough security device. 4,697,855, 10-6-87, Cl. 312-290.000.

Le Cheviller, Jean-Pierre; Duquesne, Jean; and Dupuy, Rene. Telephone apparatus with a fixed telephone station coupled to a mobile and detachable handset. 4,669,109, 5-26-87, Cl. 379-143.000.

Lechner, Alfred, to Du Pont de Nemours, E. I., and Company. Tenter frame clip. 4,658,482, 4-21-87, Cl. 26-93.000.

Lechner, Bernard J., to RCA Corporation. Progressively scanned television system with reduced chrominance bandwidth. 4,672,424, 6-9-87, Cl. 358-11.000.

Lechner, Bernard J.; and Powers, Kerns H., to RCA Corporation. Wide screen composite video signal encoder and standard aspect ratio decoder having barst and subcarrier components of different frequencies. 4,709,256, 11-24-87, Cl. 358-11.000.

Lechner, Fritz; Heissler, Herbert; Scheer, Wolfgang; Siebels, Wolfgang; and Ascherl, Rudolf, to M A N Technologie GmbH. Reinforced fiber bone replacement implant having treated surfaces and a method for its manufacture. 4,714,467, 12-22-87, Cl. 623-16.000.

Lechner, Helmut; and Roller, Wilhelm. Curtain tape. 4,688,620, 8-25-87, Cl. 160-348.000.

Lechner, Hubert, to LGZ Landis & Gyr Zug AG. Single phase stepping motor with improved pole arrangement. 4,634,907, 1-6-87, Cl. 310-49.00R.

Lechner, Hubert, to LGZ Landis & Gyr Zug AG. One-phase stepping motor. 4,686,398, 8-11-87, Cl. 310-41.000.

Lechner, Johann: *See—*
Soltow, Uwe; Guthke, Hans-Peter; Flate, Hans-Georg; Lechner, Johann; and Kirma, Safa, 4,715,571, Cl. 248-68.100.

Lechner, Paula. Surgical prep block and surgical assist block. 4,681,30 7-21-87, Cl. 269-328.000.

Lechner, Reinhard: *See—*
Bantle, Manfred; and Lechner, Reinhard, 4,690,462, Cl. 301-9.0CN.

Lechner, Robert; and Sealer, David, to Advanced Micro Devices, Inc. and Siemens Aktiengesellschaft. Circuit arrangement for zero point balancing of an integrated operational amplifier. 4,651,110, 3-17-87, Cl. 330-9.000.

Lechner, Robert; Rudolf, Hans-Werner; and Krimmer, Roland, to Siemens Aktiengesellschaft. Protective circuit for the overvoltage protection of a subscriber line interconnect circuit. 4,715,058, 12-22-87, Cl. 379-27.000.

Lechner, Rufolf: *See—*
Oppelt, Herbert; and Lechner, Rufolf, 4,700,905, Cl. 242-67.10R.

Lechon, Alain; and Viard, Alain, to Societe Nationale Elf Aquitaine (Production). Load carrying connection and hydraulic fluid transmission device. 4,640,096, 2-3-87, Cl. 60-547.100.

Lechopier, Serge: *See—*
Berte , Marc; Bidard, Louis; and Lechopier, Serge, 4,656,707, Cl. 29-25.350.

Lechtken, Peter; Boethe, Ingolf; Jacobi, Manfred; and Trimborn, Werner, to BASF Aktiengesellschaft. Photocurable compositions with acylphosphine oxide photoinitiator. 4,710,523, 12-1-87, Cl. 522-14.000.

Lechtken, Peter: *See—*
Hettche, Albert; Weiss, Stefan; Trauth, Hubert; Lechtken, Peter; and Horner, Michael, 4,680,327, Cl. 524-110.000.

Leckrone, Michael E., to Vaser, Inc. Angioplasty catheter and method for use thereof. 4,685,458, 8-11-87, Cl. 128-303.100.

Leclair, Robert A.: *See—*
Pensabene, Saverio F.; West, Jon K.; Leclair, Robert A.; Van Conant, Carl F.; Catotti, Arthur J.; and Fralick, William L., 4,686,013, Cl. 204-2.100.

Leclaire, Charly, to Prouvost S.A. Method and sewing machine for automatically providing end of stitching at a given distance from the edge of a piece of fabric. 4,691,652, 9-8-87, Cl. 112-262.100.

LeClear, Douglas D., to Whirlpool Corporation. Dehumidifier having low profile receptacle. 4,712,382, 12-15-87, Cl. 62-150.000.

Leclerc, Henry R.: *See—*
d'Agostino, Guy; Dhainaut, Andre ; Kettler, Daniel G. A.; and Leclerc, Henry R., 4,681,327, Cl. 277-29.000.

Le Clerco, Pierre A. L. M. G.; Delheusy, Jean C.; and Rigot, Guy J. Method of constructing reinforced concrete works such as underground galleries, road tunnels, et cetera; pre-fabricated concrete elements for constructing such works. 4,697,955, 10-6-87, Cl. 405-135.000.

Leclercq, Jacques, to Saint Gobain Vitrage. Automatic device for actuation of components to clean a motor vehicle window. 4,636,698, 1-13-87, Cl. 318-443.000.

Leclercq, Joseph; and Bonnamour, Michel, to Fragema. Hold down device for a nuclear reactor. 4,645,642, 2-24-87, Cl. 376-364.000.

Leclercq, Joseph, to Fragema. Nuclear fuel assembly containing burnable poison. 4,645,643, 2-24-87, Cl. 376-447.000.

Leclercq, Joseph, to Commissariat A L'Energie Atomique; and Framatome. Fuel assemblies for nuclear reactors. 4,655,990, 4-7-87, Cl. 376-225.000.

Leclercq, Joseph, to Framatome et Cogema dite "Fragema". Nuclear fuel assembly lock down device. 4,675,151, 6-23-87, Cl. 376-364.000.

Leclercq, Joseph M., to Commissariat a l'Energie Atomique. Apparatus for limiting the effect of axial hydraulic flow force exerted on fuel assemblies of water-cooled nuclear reactors. 4,659,538, 4-21-87, Cl. 376-364.000.

eclere, Klemens: *See—*
- Kraemer, Johannes; Leclere, Klemens; Nuding, Werner; and Schilde, Heinz-Josef, 4,701,240, Cl. 156-555.000.

eclere, Patrick: *See—*
- Baudequin, Francois; and Leclere, Patrick, 4,707,350, Cl. 423-637.000.

eco Corporation: *See—*
- Haigh, Richard B., 4,689,132, Cl. 204-224.00M.
- Lawrenz, Dennis A.; and Rinkenberg, Ken A., 4,643,032, Cl. 73-864.530.
- Lawrenz, Dennis A.; and Rinkenberg, Ken A., 4,646,578, Cl. 73-864.520.

Le Coent, Jean-Louis, to Rhone-Poulenc Recherches. Process for the preparation of very highly alkaline, calcium-based detergent-dispersant additives and products produced therefrom. 4,698,170, 10-6-87, Cl. 252-33.200.

Lecoffre, Yves, to Alsthom. Apparatus for measuring the concentration of cavitation nuclei in a liquid. 4,644,808, 2-24-87, Cl. 73-866.000.

Lecoffre, Yves, and Woillez, Jacques, to TOTAL Compagnie Francaise des Petroles. Rotary vortex separator for a heterogeneous liquid. 4,702,837, 10-27-87, Cl. 210-512.300.

Lecolant, Rene: *See—*
- Tirelli, Marco; Lecolant, Rene; and Hecquet, Raoul, 4,715,917, Cl. 156-250.000.

Lecolier, Serge: *See—*
- Gautier, Jean-Claude; Lecolier, Serge; Soriaux, Claude; and Chevalier, Sammy, 4,666,513, Cl. 75-117.000.
- Tkatchenko, Igor; Jaouhari, Rabih; Bonnet, Michel; Dawkins, Gordon; and Lecolier, Serge, 4,709,087, Cl. 560-239.000.

LeComber, Peter G.: *See—*
- Owen, Alan E.; Sarrabayrouse, Gerard; LeComber, Peter G.; and Spear, Walter E., 4,684,972, Cl. 357-59.000.

Lecomte, Daniel: *See—*
- Romeas, Rene ; and Lecomte, Daniel, 4,672,596, Cl. 369-59.000.

Lecomte, Jeanne-Marie: *See—*
- Arrang, Jean-Michel; Garbarg, Monique; Lancelot, Jean-Charles; Lecomte, Jeanne-Marie; Robba, Max-Fernand; and Schwartz, Jean-Charles, 4,707,487, Cl. 514-326.000.

Leconte, Michel: *See—*
- Basset, Jean M.; Leconte, Michel; Ollivier, Jean; and Quignard, Francoise, 4,654,462, Cl. 585-646.000.
- Basset, Jean M. M.; Leconte, Michel; Ollivier, Jean; and Quignard, Francoise, 4,639,429, Cl. 502-117.000.

Le Corre, Loic; and Rolland, Albert L., to Precision Mecanique Labinal. High speed permanent magnet rotor. 4,638,200, 1-20-87, Cl. 310-156.000.

Lecour, Pierre; and Korbuly, Gergely, to Hutchinson S.A. Hydroelastic suspension device for mobile self-lift drilling plaforms. 4,688,776, 8-25-87, Cl. 267-140.100.

Le Coz, Gerard: *See—*
- Petit, Andre; Penicaud, Etienne; Le Coz, Gerard; and Jamet, Daniel, 4,703,394, Cl. 361-413.000.

Le Craw, Roy C.; Luther, Lars C.; and Nelson, Terence J., to AT&T Bell Laboratories. Magnetic domain device having a wide operational temperature range. 4,647,514, 3-3-87, Cl. 428-692.000.

Le Creff, Rene, to Neiman. Reflector produced by consecutive injections of two thermoplastic materials. 4,668,542, 5-26-87, Cl. 428-31.000.

LecTec Corporation: *See—*
- Ethier, Dolores O., 4,696,854, Cl. 428-287.000.
- Rolf, David, 4,674,512, Cl. 128-640.000.

Lectrolarm Custom Systems, Inc.: *See—*
- Smith, William V., 4,675,672, Cl. 340-825.770.
- Smith, William V., 4,688,815, Cl. 280-216.000.

Lectron Products, Inc.: *See—*
- Miller, Ellsworth S., 4,638,132, Cl. 200-81.00R.
- Northman, Bradley L.; Slavin, Michael; and West, Donald J., 4,678,006, Cl. 137-596.170.

Lecuru, Daniel; and Choffy, Jean-Pierre, to Aerospatiale Societe Nationale Industrielle. Ultrasonic testing device provided with a rolling means. 4,640,133, 2-3-87, Cl. 73-639.000.

Le Dain, Rene ; and Havot, Henri, to Etat Francais represente par le Ministre des PTT (Centre National d'Etudes des Telecommunications) and Etablissement Public de Diffusion dit "Telediffusion de France". Wide band directional coupler for microstrip lines. 4,677,399, 6-30-87, Cl. 333-116.000.

Ledbetter, Frank E., III: *See—*
- Daniels, Julia G.; Ledbetter, Frank E., III; Clemons, Johnny M.; Penn, Benjamin G.; and White, William T., 4,680,897, Cl. 51-281.00R.

Ledbetter, Jeffrey A.: *See—*
- Rose, Lynn M.; Clark, Edward A.; and Ledbetter, Jeffrey A., 4,677,061, Cl. 435-39.000.

Ledbetter, William B.: *See—*
- Relis, Matityahu; and Ledbetter, William B., 4,666,389, Cl. 425-78.000.

Ledeboer, Adrianus: *See—*
- Edens, Luppo; Ledeboer, Adrianus; Verrips, Cornelis; and Van den Berg, Johannes A., 4,657,857, Cl. 435-68.000.

Ledebrink, Friedrich-Wilhelm; and Link, Karl-Rupprecht, to Alkem GmbH. Incinerator furnace. 4,676,175, 6-30-87, Cl. 110-235.000.

Ledebrink, Friedrich-Wilhelm, to Alkem GmbH. Method for the final conditioning of radioactive and/or toxic waste. 4,702,862, 10-27-87, Cl. 252-628.000.

Ledebuhr, Arno G., to Hughes Aircraft Company. Full-color projector system with a tricolor-separating prism. 4,687,301, 8-18-87, Cl. 350-401.000.

Ledebuhr, Arno G., to Hughes Aircraft Company. Prism assembly for a single light valve full-color projector. 4,690,526, 9-1-87, Cl. 353-31.000.

Ledebuhr, Richard L.; and Van Ee, Gary R., to Michigan State University, Board of Trustees of. Spray unit for controlled droplet atomization. 4,659,013, 4-21-87, Cl. 239-8.000.

Ledent, Pierre; and Sonntag, Claus, to Institution pour le Developpement de la Gazeification Souterraine. Controlled retracting gasifying agent injection point process for UCG sites. 4,705,109, 11-10-87, Cl. 166-251.000.

Lederer, David B., to Detection Systems, Inc. Folded optical system for radiation detection device. 4,689,486, 8-25-87, Cl. 250-338.000.

Lederer, Edgar: *See—*
- Krueger, James M.; Pappenheimer, John R.; Karnovsky, Manfred L.; Lefrancier, Pierre; Choay, Jean; Chedid, Louis; and Lederer, Edgar, 4,698,330, Cl. 514-19.000.
- Lefrancier, Pierre; Parant, Monique; Audibert, Francoise; Chedid, Louis; Choay, Jean; and Lederer, Edgar, 4,693,998, Cl. 514-62.000.

Lederle (Japan), Ltd.: *See—*
- Hasegawa, Kenji; Nakashima, Koichi; Eguchi, Tohru; and Ota, Masako, 4,701,320, Cl. 424-54.000.
- Mizushima, Yutaka; Fujii, Mitsuharu; and Takei, Hiroshi, 4,647,586, Cl. 514-532.000.
- Naito, Kenzo; Tsukamura, Kazuo; and Aoyagi, Sakae, 4,692,519, Cl. 540-227.000.

Lederman, Elsie J. Cooking utensil. 4,646,628, 3-3-87, Cl. 99-413.000.

Lederman, Elsie J. Computer furniture. 4,695,104, 9-22-87, Cl. 312-26.000.

Lederman, Frederick E., to General Motors Corporation. Fluid-operated piston. 4,635,778, 1-13-87, Cl. 192-85.0AA.

Lederman, Frederick E.; and Johnston, Albert D., to General Motors Corporation. Overrunning roller clutch with increased load capacity. 4,664,237, 5-12-87, Cl. 192-45.000.

Lederman, Frederick E., to General Motors Corporation. Unitized bearing with free molded seals. 4,708,497, 11-24-87, Cl. 384-448.000.

Lederman, Frederick E., to General Motors Corporation. Roller clutch with improved spring guidance. 4,711,330, 12-8-87, Cl. 192-45.000.

Lederman, Frederick E., and King, Donald J., to General Motors Corporation. Overrunning clutch cage. 4,712,661, 12-15-87, Cl. 192-45.000.

Lederman, Frederick E., to General Motors Corporation. Overrunning clutch with sealing member. 4,714,803, 12-22-87, Cl. 192-41.00R.

Lederman, Frederick E.: *See—*
- King, Donald J.; and Lederman, Frederick E., 4,679,676, Cl. 192-45.000.

Ledermann, Donald L.; and Otten, Ronald L., to J. I. Case Company. Center pivot hitch assembly. 4,681,335, 7-21-87, Cl. 280-446.00R.

Ledermann GmbH & Co.: *See—*
- Mellert, Erwin, 4,652,182, Cl. 407-48.000.

Ledex, Inc.: *See—*
- Barton, James E., 4,660,010, Cl. 335-228.000.

Ledford, Hazen, Jr. Table saw attachment for cutting circles. 4,693,155, 9-15-87, Cl. 83-410.000.

Ledin-Bonevik, Birgitta B. M. Colon irrigator for use within a toilet basin. 4,696,673, 9-29-87, Cl. 604-150.000.

Ledin, Ivar: *See—*
- Santen, Sven; and Ledin, Ivar, 4,652,725, Cl. 219-121.0PY.

LeDisert, Yves: *See—*
- Rone, Jean; LeDisert, Yves; Faucher, Philippe; and Scriven, Roger L., 4,689,131, Cl. 204-181.700.

Ledley, Robert S., to National Biomedical Research Foundation. Split-image, multi-power microscopic image display system and method. 4,651,200, 3-17-87, Cl. 358-93.000.

Ledley, Robert S., to National Biomedical Research Foundation. Operator interactive automated chromosome analysis system producing a karyotype. 4,656,594, 4-7-87, Cl. 364-498.000.

Ledley, Robert S., to National Biomedical Research Foundation. Split-image, multi-power microscopic image display system and method. 4,673,973, 6-16-87, Cl. 358-93.000.

Ledley, Robert S.; and Gersten, Douglas M., to Georgetown University. Radioopaque sugar derivatives and a method of metabolic mapping using the same. 4,716,225, 12-29-87, Cl. 536-122.000.

Ledniczky, Laszlo : *See—*
- Heja, Gergely; Korbonits, Dezso ; Palosi, Endre; Kiss, Pal; Gonczi, Csaba; Szvoboda nee Kanzel, Ida; Marvanyos, Ede; Kun, Judit; Szomor nee Wundele, Maria; Szabo, Gabor; Kallay, Tamas; and Ledniczky, Laszlo , 4,709,081, Cl. 560-100.000.

LeDoux, John P. Lamp for temporarily attaching to a support. 4,692,850, 9-8-87, Cl. 362-432.000.

Ledoux, Jules F. R., to Hamon-Sobelco S.A. Heaters for thermal energy transformation installations. 4,635,588, 1-13-87, Cl. 122-1.00C.

Ledoux, Robert V.: *See—*
- Keeley, James W.; Ledoux, Robert V.; and Negi, Virendra S., 4,667,288, Cl. 364-200.000.
- Keeley, James W.; Ledoux, Robert V.; and Negi, Virendra S., 4,686,621, Cl. 364-200.000.

Leduc, Madeleine: *See—*
- Lang, Gerard; Leduc, Madeleine; and Malaval, Alain, 4,654,434, Cl. 560-51.000.
- Lang, Gerard; Leduc, Madeleine; and Malaval, Alain, 4,663,088, Cl. 260-507.00R.

Leduc, Richard; Duarte, Virgilio D.; and Lamothe, Claude, to Chimney Guard Ltd. Fire extinguishing system. 4,664,197, 5-12-87, Cl. 169-26.000.
Leduc, Robert J.: *See—*
  Malandra, Louis J.; Leduc, Robert J.; Hankinson, Michael F.; and Kowalski, Edward F., 4,678,623, Cl. 376-260.000.
Leduc, Yves: *See—*
  LeToumelin, Loic; Tollon, Franck; and Leduc, Yves, 4,645,881, Cl. 379-252.000.
Ledzius, Robert C.; and Allen, Steven P., to Motorola, Inc. Self-compensating, maximum speed integrated circuit. 4,691,124, 9-1-87, Cl. 307-303.000.
Lee, Aaron. Multiple screen printer with simultaneous printing. 4,669,378, 6-2-87, Cl. 101-115.000.
Lee, Alan, to Eastman Kodak Company. Image sensor having normalized areal conductive elements to effect uniform capacitative loading. 4,660,089, 4-21-87, Cl. 358-213.000.
Lee, Albert C., to General Electric Company. Clamping means for the core and coil assembly of an electric transformer. 4,663,605, 5-5-87, Cl. 336-197.000.
Lee, Albert C., to General Electric Company. Transformer with amorphous alloy core having chip containment means. 4,673,907, 6-16-87, Cl. 336-92.000.
Lee, Alejandro C.: *See—*
  Shurtleff, Jill M.; and Lee, Alejandro C., 4,709,476, Cl. 30-41.000.
Lee, Anthony, to Westinghouse Electric Corp. Low voltage circuit breaker with remote switching function. 4,636,760, 1-13-87, Cl. 335-14.000.
Lee, Anthony: *See—*
  Nagel, Gregory L.; Lee, Anthony; and Hill, Warren D., 4,678,887, Cl. 219-117.100.
  Nagel, Gregory L.; Sidlosky, David M.; Murty, Balarama V.; Lee, Anthony; and Cleveland, Dixon, 4,694,135, Cl. 219-110.000.
Lee, Anthony J. J., to National Research Development Corporation. Spark plug. 4,639,635, 1-27-87, Cl. 313-123.000.
Lee, Arnold S. J. Ballistocardiograph. 4,679,569, 7-14-87, Cl. 128-714.000.
Lee, Arnold St. J. Method and apparatus for "zeroing" and calibrating a catheter-tip gauge-pressure transducer. 4,672,974, 6-16-87, Cl. 128-673.000.
Lee, Arnold St. J. System, apparatus and method for gathering physiological data. 4,681,098, 7-21-87, Cl. 128-630.000.
Lee, Arthur K.: *See—*
  Sanchez-Caldera, Luis E.; Suh, Nam P.; Chun, Jung-Hoon; Lee, Arthur K.; and Blackall, Frederick S., IV, 4,706,730, Cl. 164-135.000.
Lee, Bernard S.; Tarman, Paul B.; and Punwani, Dharam V., to Institute of Gas Technology. Treatment of solids in fluidized bed burner. 4,693,682, 9-15-87, Cl. 432-15.000.
Lee, Bing-lin, to B. F. Goodrich Company, The. Chlorinated poly(vinyl chloride) thermoplastic alloys. 4,680,343, 7-14-87, Cl. 525-148.000.
Lee, Bruce R. Electric trolling motor foot control mount. 4,702,713, 10-27-87, Cl. 440-7.000.
Lee, Byeong G.: *See—*
  Angell, Eric H.; Aprille, Thomas J.; Azaret, Juan O.; Fang, Rong-Chin; Lee, Byeong G.; Longwell, Brian C.; Sharper, Craig A.; and Spalink, Jan-Dieter, 4,716,561, Cl. 370-55.000.
Lee, Byong G.; Song, Ju M.; and Kim, Chi S., to CPUS Corporation. Catalyst for treatment and cleaning of exhaust fumes. 4,661,468, 4-28-87, Cl. 502-333.000.
Lee, Byung-Lip, to Goodyear Tire & Rubber Company, The. Reinforcing structure for a rubber article. 4,688,615, 8-25-87, Cl. 152-531.000.
Lee, Carol S., to Mobil Oil Corporation. Oxidative dehydrogenation of alkyl aromatics with carbon molecular sieves. 4,652,690, 3-24-87, Cl. 585-443.000.
Lee, Carol S.; and Stead, George E., to Mobil Oil Corporation. Catalytic conversion of methanol to light olefins. 4,665,268, 5-12-87, Cl. 585-640.000.
Lee, Chang R.; and Chang, Pei K., to Ciba Corning Diagnostics Corp. Protein composition characterized by lower thermogelation temperature and improved acid solubility. 4,675,201, 6-23-87, Cl. 426-573.000.
Lee, Chang R.: *See—*
  Lin, Chifa F.; and Lee, Chang R., 4,636,388, Cl. 426-7.000.
Lee, Char-Shin, to Lee Wang Industry Ltd. Pressure gauge. 4,685,336, 8-11-87, Cl. 73-715.000.
Lee, Char Y.: *See—*
  Schuster, John R.; Lee, Char Y.; and Weggel, Carl F., 4,657,723, Cl. 376-146.000.
Lee, Charles M.; and Murphy, Bernard T., to AT&T Bell Laboratories. Trimmable loading elements to control clock skew. 4,639,615, 1-27-87, Cl. 307-269.000.
Lee, Cheng F. Wind-bell. 4,693,162, 9-15-87, Cl. 84-404.000.
Lee, Chi-long; and Lutz, Michael A., to Dow Corning Corporation. Acryl functional silicone compounds. 4,697,026, 9-29-87, Cl. 556-418.000.
Lee, Chi-long; and Maxson, Myron T., to Dow Corning Corporation. Moisture cured one-part RTV silicone sealant. 4,711,928, 12-8-87, Cl. 524-860.000.
Lee, Chi-Long: *See—*
  Gornowicz, Gerald A.; and Lee, Chi-Long, 4,705,877, Cl. 556-422.000.
  Gornowicz, Gerald A.; and Lee, Chi-Long, 4,705,878, Cl. 556-422.000.
Lee, Chie-Ying; West, James D.; and Cole, Gerald F., to Alfa-Laval Inc. Method of operating nozzle centrifuges. 4,643,709, 2-17-87, Cl. 494-37.000.
Lee, Chien-Ping: *See—*
  Sheng, Neng-Haung; Chang, Mau-Chung F.; and Lee, Chien-Ping, 4,670,090, Cl. 156-653.000.
Lee, Chin-hui; and Wong, David Y., to Digital Sound Corporation. Digital tone decoder and method of decoding tones using linear prediction coding. 4,689,760, 8-25-87, Cl. 370-110.300.
Lee, Chin-Hui: *See—*
  Klovstad, John W.; Lee, Chin-Hui; and Ganesan, Kalyan, 4,713,777, Cl. 364-513.500.
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Hodge, James D.; and Lee, Kiu-Seung, 4,684,409, Cl. 106-311.000.

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  Higgins, Larry, 4,705,079, Cl. 140-3.0CA.
  Krakauer, Edwin G., 4,699,362, Cl. 267-91.000.
  Mikos, Aloysius J., 4,669,134, Cl. 5-13.000.
  Mohr, Henry G., 4,700,558, Cl. 72-145.000.
  Pool, Jerry S., 4,682,708, Cl. 220-460.000.
  Robinson, Danny C., 4,700,414, Cl. 5-13.000.
  Wells, Thomas J.; and Serafini, Angelo, 4,639,957, Cl. 5-248.000.
  Wells, Thomas J.; and Serafini, Angelo, 4,682,394, Cl. 29-173.000.
  Yates, Chester R.; and Bruner, Maurice M., 4,704,752, Cl. 5-247.000.
  Zapletal, Henry; Wentzek, Horst F.; and Chembakaffery, George M., 4,686,753, Cl. 29-281.400.
  Zugel, Martin J., 4,644,819, Cl. 74-665.00B.

Legierse, Petrus E. J.: *See—*
  Liebler, Ralf; Munzer, Manfred; Quis, Peter; and Legierse, Petrus E. J., 4,663,199, Cl. 427-304.000.
  Lippits, Gerardus J. M.; Legierse, Petrus E. J.; and Dujardin, George J. P., 4,668,549, Cl. 428-65.000.

Legille, Edouard; and Melan, Corneille, to Paul Wurth S.A. Apparatus for laying a refractory lining on the inner wall of a vessel. 4,688,773, 8-25-87, Cl. 266-281.000.

Legille, Edouard: *See—*
  Ulveling, Leon; Schmit, Louis; and Legille, Edouard, 4,702,288, Cl. 141-67.000.

Legiertex s.r.l.: *See—*
  Ribolla, G. Carlo; Taroni, Federico; Peiretti, Domenico; and Pepino, Antonio, 4,701,985, Cl. 26-10.00C.

Le Goff epouse Henaff, Jeannine: *See—*
  Feldmann, Michel; and Le Goff epouse Henaff, Jeannine, 4,654,715, Cl. 358-230.000.

Legoupil, Jean-Luc: *See—*
  Damiron, Pierre M.; and Legoupil, Jean-Luc, 4,684,451, Cl. 204-141.500.

Legrady, Janos, to Zierick Manufacturing Corporation. Quick disconnect contact for printed circuit boards. 4,688,866, 8-25-87, Cl. 439-78.000.

Legrand: *See—*
  Badouard, Michel; Durame, Claude; and Pade, Bernard, 4,673,085, Cl. 206-459.000.
  Jonval, Pierre, 4,659,160, Cl. 339-111.000.
  Sarton, Francois; and Barriuso, Jean-Pierre, 4,649,658, Cl. 40-316.000.
  Sarton, Francois; and Roby, Gerard, 4,697,774, Cl. 248-221.400.

LeGrand, Archie M., Jr.: *See—*
  Pregnall, Richard A.; and LeGrand, Archie M., Jr., 4,711,854, Cl. 436-144.000.

LeGrand, Donald G., to General Electric Company. Internal protective coatings for sensitive resinous laminae. 4,645,708, 2-24-87, Cl. 428-215.000.

LeGrand, Donald G.; and Olszewski, William V., to General Electric Company. Puncture resistant laminate. 4,647,493, 3-3-87, Cl. 428-215.000.

LeGrand, Donald G.; and Olszewski, William V., to General Electric Company. Method for making safety or impact resistant laminates. 4,683,172, 7-28-87, Cl. 428-412.000.

le Grand, Ferdinand; and Odio, Carlos E., to University of Florida. Distillation column. 4,657,638, 4-14-87, Cl. 202-158.000.

Legrand, Guy; and Fawre, Michel, to Videocolor. Method for measuring the convergence of a three-gun shadow-mask cathode-ray tube and a device for the application of said method. 4,635,095, 1-6-87, Cl. 358-10.000.

Legrand, Jacques; and Rouffy, Jean C., to Socapex S.A. Miniature small pitch connection element and a process for manufacturing such a connection element. 4,666,226, 5-19-87, Cl. 339-61.00M.

LeGrand, Maurice; and DeBorde, Henri C., to Skis Rossignol S.A. Side-reinforced ski. 4,671,529, 6-9-87, Cl. 280-610.000.

Legrand, Pierre. Public transport vehicle. 4,686,908, 8-18-87, Cl. 105-315.000.

Legrand, Raymond, to Richards Medical France, S.A.R.L. Prosthesis for replacement of the hip's joint. 4,676,799, 6-30-87, Cl. 623-22.000.

le Granse, Josephus N., to Douwe Egberts Koninklijke Tabaksfabriek-Koffiebranderijen-Theehandel N.V. Outlet nipple for dispensers of beverage concentrates. 4,708,263, 11-24-87, Cl. 222-1.000.

Legras, Roger M.: *See—*
  Daoust, Daniel J. M.; Devaux, Jacques J.; Legras, Roger M.; Mercier, Jean P.; and Nield, Eric, 4,657,990, Cl. 525-471.000.

Legras, Yvonne: *See—*
  Juge, Sylvain; and Legras, Yvonne, 4,694,094, Cl. 558-76.000.

Legris, Andre; and Levenez, Yves, to Societe anonyme dite Legris. Pneumatic sensors for the control of pneumatic cycles. 4,658,849, 4-21-87, Cl. 137-82.000.

Legris, Andre, to Societe Anonyme Styled Legris. Method and device for assembling several components, particularly connection fittings for fluid couplings. 4,712,809, 12-15-87, Cl. 285-21.000.

Legros, Jean-Pierre: *See—*
  Cariteau, Bernard; Legros, Jean-Pierre; Charrieras, Andre; and Feuvrier, Michel, 4,706,423, Cl. 52-169.700.

Legroux, Didier: *See—*
  Rossey, Guy; and Legroux, Didier, 4,656,278, Cl. 546-140.000.

LeGrys, Geoffrey A.: *See—*
  Wiggins, Robert; King, William R.; Barker, Jeffrey G.; and LeGrys, Geoffrey A., 4,674,689, Cl. 241-6.000.

LeGrys, Scott R.: *See—*
  Greco, Joseph A., II; Hawkins, Donald K.; LeGrys, Scott R.; and Kit Man, Wai, 4,685,068, Cl. 364-518.000.

Le Guen, Jacques; and Plessis, Andre, to Thomson-CSF. Rotating-anode X-ray tube. 4,651,336, 3-17-87, Cl. 378-125.000.

Leguen, Jacques: *See—*
  Plessis, Andre; and Leguen, Jacques, 4,675,891, Cl. 378-132.000.

Leguennec, Michel: *See—*
  Kling, Bernard; Mongin, Roger; and Leguennec, Michel, 4,673,245, Cl. 350-96.200.

Le Helloco, Michel: *See—*
  Desfontaines, Guy; and Le Helloco, Michel, 4,708,843, Cl. 376-219.000.

Lehigh University: *See—*
  Esumi, Kunio; Schwartz, Anthony M.; and Zettlemoyer, Albert, 4,634,659, Cl. 430-302.000.
  Kim, Yong W.; and Harding, Thomas W., 4,713,548, Cl. 250-423.00R.
  Klier, Kamil; Herman, Richard G.; and Vedage, Gamini A., 4,642,381, Cl. 564-480.000.
  Leidheiser, Henry, Jr.; and Konno, Hidetaka, 4,681,814, Cl. 428-457.000.
  Schwartz, Anthony M.; Kawashima, Norimichi; and Zettlemoyer, Albert C., 4,693,958, Cl. 430-302.000.

Lehighton Electronics, Inc.: *See—*
  Allerton, George L.; and Otto, Willard G., 4,667,154, Cl. 324-158.00P.

Le Hir, Yves: *See—*
  Jegousse, Michel; and Le Hir, Yves, 4,687,378, Cl. 405-171.000.

Lehky, Pavel: *See—*
  Kulla, Hans; Lehky, Pavel; and Squaratti, Armand, 4,708,936, Cl. 435-128.000.

Lehmacher, Hans, to Lemo M. Lehmacher & Sohn GmbH Maschinenfabrik. Apparatus for stacking and padding plastic bags. 4,662,864, 5-5-87, Cl. 493-204.000.

Lehman, David B.: *See—*
  Appelbaum, Matthew A.; Lehman, David B.; Nieglos, Donald J.; Nolte, Stanley C.; and Oehler, Michael P., 4,683,968, Cl. 380-4.000.

Lehman, E. Dale: *See—*
  Friedman, Arthur; Lehman, E. Dale; McAleer, William J.; Schaefer, Ted F.; Scolnick, Edward M.; and Wampler, D. Eugene, 4,707,542, Cl. 530-371.000.

Lehman, John F., to Steel City Corporation, The. Post anchor device. 4,644,713, 2-24-87, Cl. 52-165.000.

Lehman, John R.: *See—*
  Butler, Ronald G.; and Lehman, John R., 4,683,906, Cl. 137-375.000.

Lehman, Lewis M., to Square D Company. Mounting apparatus for arc quenching plates for electric contacts. 4,684,772, 8-4-87, Cl. 200-144.00R.

Lehman, Michael E., to Monorail, Inc. Microprocessor based air inflation control system. 4,694,409, 9-15-87, Cl. 364-558.000.

Lehman, Raymond C.: *See—*
  Weldin, William B.; and Lehman, Raymond C., 4,660,876, Cl. 294-33.000.

Lehmann, Eike; and Jannusch, Reiner, to Howaldtswerke-Deutsche Werft, Aktiengesellschaft. Device for reducing vibrations of periscopes. 4,640,216, 2-3-87, Cl. 114-340.000.

Lehmann, Ernesto: *See—*
  Thalmann, Alfred; Lehmann, Ernesto; Roth, Emil; and Gerber, Walter, 4,642,154, Cl. 156-272.200.
  Thalmann, Alfred; and Lehmann, Ernesto, 4,670,078, Cl. 156-274.200.

Lehmann, Hans; and Zahir, Abdul-Cader, to Ciba-Geigy Corporation. (Acylthiopropyl)phenols. 4,694,096, 9-15-87, Cl. 558-251.000.

Lehmann, Hans-Dieter: *See—*
  Geiss, Karl-Heinz; Schmied, Bernhard; Raschack, Manfred; Lehmann, Hans-Dieter; Gries, Josef; and Ruebsamen, Klaus, 4,710,496, Cl. 514-183.000.
  Rossy, Phillip A.; Thyes, Marco; Franke, Albrecht; Koenig, Horst; Lehmann, Hans Dieter; Gries, Josef; Friedrich, Ludwig; and Lenke, Dieter, 4,636,504, Cl. 514-252.000.

Lehmann, Helmuth: *See—*
  Christ, Alfred; Lehmann, Helmuth; and Spiewok, Leonhard, 4,704,879, Cl. 68-140.000.

Lehmann, Klaus; Dreher, Dieter; and Goetz, Harry, to Rohm GmbH. Coating for pharmaceutical dosage forms. 4,644,031, 2-17-87, Cl. 524-501.000.

Lehmann, Klaus; and Muller, Karl-Heinz, to Robert Bosch GmbH. System for shift register clocking of analog storage cells. 4,654,605, 3-31-87, Cl. 331-55.000.

Lehmann, Klaus; Dreher, Dieter; and Goetz, Harry, to Rohm GmbH Chemische Fabrik. Method for coating pharmaceutical formulations. 4,705,695, 11-10-87, Cl. 427-3.000.

Lehmann, Klaus-Peter: *See*—
  Anhegger, Sigmund; and Lehmann, Klaus-Peter, 4,656,807, Cl 52-718.100.
  Linz, Herbert; and Lehmann, Klaus-Peter, 4,671,555, Cl. 296-1.00S.

Lehmann, Leonard: *See*—
  Alvarez, Robert; Lehmann, Leonard; and Strul, Bruno, 4,710,624, Cl. 250-228.000.

Lehmann, Leonard T., to American Cyanamid Company. Surgical filament coating. 4,711,241, 12-8-87, Cl. 128-335.500.

Lehmann, Leonard T.: *See*—
  Wang, David W.; Casey, Donald J.; and Lehmann, Leonard T., 4,705,820, Cl. 524-381.000.

Lehmann, Paul: *See*—
  Willnow, Peter; Lehmann, Paul; Ziegenhorn, Joachim; and Wahlefeld, August W., 4,705,749, Cl. 435-15.000.

Lehmann, Peter, to Mannesmann Aktiengesellschaft. Pipe pig with running gear. 4,677,865, 7-7-87, Cl. 73-866.500.

Lehmann, Peter; and Michel, Manfred, to Hoechst Aktiengesellschaft. Light-sensitive recording material for the production of a printing form or printed circuit with photoconductive layer and light-sensitive overlayer. 4,680,244, 7-14-87, Cl. 430-66.000.

Lehmann, Peter: *See*—
  Langer, Hans-Jurgen; and Lehmann, Peter, 4,669,597, Cl. 198-323.000.

Lehmann, Randall E.: *See*—
  Heston, David D.; Lehmann, Randall E.; and Seymour, David J., 4,658,220, Cl. 330-277.000.

Lehmann, Roger W.; and Satten, Michael I. Toy car carrier. 4,708,683, 11-24-87, Cl. 446-75.000.

Lehmann, Rolaf; and Burmeister, Sven, to Lolift Verwaltungs GmbH. Container for bulk material. 4,658,432, 4-14-87, Cl. 383-20.000.

Lehmann, Rudolf: *See*—
  Gerhardt, Werner; Fischer, Herbert; Lehmann, Rudolf; Disch, Karlheinz; and Leinen, Hans T., 4,652,585, Cl. 514-563.000.

Lehmann, Wolfgang: *See*—
  Schmidt, Gerhard; and Lehmann, Wolfgang, 4,670,136, Cl. 209-403.000.

Lehmer, Donald E.; and Humphrey, William E., to Humphrey Instruments, Inc. Superimposed analog video image on plotted digital field tester display. 4,675,736, 6-23-87, Cl. 358-183.000.

Lehmussaari, Antti; and Mansikkamaki, Aino, to Suomen Sokeri Oy. Process for the extraction of β-amylase from barley grains. 4,675,296, 6-23-87, Cl. 435-188.000.

Lehn, Carsten J.; and Poyser, John. Method for the manufacturing of munchies. 4,702,929, 10-27-87, Cl. 426-635.000.

Lehner, August; Kohl, Albert; Balz, Werner; Sommermann, Friedrich; Velic, Milan; Grau, Werner; and Baur, Reinhold, to BASF Aktiengesellschaft. Magnetic recording media. 4,647,513, 3-3-87, Cl. 428-694.000.

Lehner, August; Kohl, Albert; Roller, Hermann; Balz, Werner; Koester, Eerhard; and Sommermann, Friedrich, to Basf Aktiengesellschaft. Magnetic recording media. 4,656,093, 4-7-87, Cl. 428-403.000.

Lehner, August; Heil, Guenter; Kovacs, Jenoe; Balz, Werner; and Lenz, Werner, to BASF Aktiengesellschaft. Magnetic recording media. 4,666,781, 5-19-87, Cl. 428-425.900.

Lehner, August; Balz, Werner; Lenz, Werner; Kohl, Albert; and Heil, Guenter, to BASF Aktiengesellschaft. Production of layer-type magnetic recording media. 4,671,969, 6-9-87, Cl. 427-48.000.

Lehner, August; Heil, Guenter; Lenz, Werner; Balz, Werner; Kohl, Albert; and Schornick, Gunnar, to BASF Aktiengesellschaft. Production of layer-type magnetic recording media. 4,673,591, 6-16-87, Cl. 427-48.000.

Lehner, August: *See*—
  Kohl, Albert; Melzer, Milena; Lehner, August; Schneider, Norbert; Koester, Eberhard; Balz, Werner; Sommermann, Friedrich; and Ricker, Ernst, 4,668,586, Cl. 428-411.100.

Lehner, Gerald J.: *See*—
  Burke, Michael J.; Pidsosny, Richard A.; and Lehner, Gerald J., 4,710,888, Cl. 364-561.000.

Lehner, Martin: *See*—
  Keller, Heinz; Brocker, Heinz; and Lehner, Martin, 4,705,608, Cl. 204-28.000.

Lehner, Rolf P.: *See*—
  Pfizenmaier, Wolfgang; Heidt, Heinrich; and Lehner, Rolf P., 4,641,070, Cl. 318-640.000.

Lehnerer, Patrick: *See*—
  Lala, Sharookh; Lehnerer, Patrick; Hanson, Russell; and Stevens, Michael, 4,641,814, Cl. 254-10.500.

Lehnert, Charles W.; and Randall, Brian G., to Georgia-Pacific Corporation. Use of fibrous mat-faced gypsum board in exterior finishing systems for buildings. 4,647,496, 3-3-87, Cl. 428-251.000.

Lehnert, Charles W.: *See*—
  Fowler, George F., Jr.; and Lehnert, Charles W., 4,695,494, Cl. 428-71.000.
  Wilson, Glenn E.; and Lehnert, Charles W., 4,664,707, Cl. 106-18.110.

Lehnert, Gunther: *See*—
  Reichmann, Wolfgang; and Lehnert, Gunther, 4,652,493, Cl. 428-423.100.

Lehnert, Ralf; Tran-Gia, Phuoc; and Lempennau, Wolfram, to U.S. Philips Corporation. Traffic simulator for testing exchanges taking the subscriber-system interaction into account. 4,680,784, 7-14-87, Cl. 379-11.000.

Lehnert, Stanley E., to Zenith Electronics Corporation. Saturable reactor with toroidal shunt paths. 4,654,564, 3-31-87, Cl. 315-400.000.

Lehnert, Werner, to Saarbergwerke Aktiengesellschaft. Process to reheat flue gases cleaned by the wet process. 4,706,580, 11-17-87, Cl. 110-345.000.

Lehnhoff Hartstahl GmbH & Co.: *See*—
  Lehnhoff, Peter A., 4,642,920, Cl. 37-141.00T.

Lehnhoff, Peter A., to Lehnhoff Hartstahl GmbH & Co. Digger tooth arrangement. 4,642,920, 2-17-87, Cl. 37-141.00T.

Lehnhoff, Richard N.; and Savage, Jack W., to General Motors Corporation. Self-starting single-phase brushless DC motor and control therefor. 4,678,972, 7-7-87, Cl. 318-254.000.

Lehnhoff, Richard N.; and Disser, Robert J., to General Motors Corporation. Vehicle power window control circuit with reverse battery protection. 4,710,685, 12-1-87, Cl. 318-287.000.

Lehnhoff, Richard N.: *See*—
  Angi, Donald F.; Connors, Kevin G.; Lehnhoff, Richard N.; and Savage, Jack W., 4,665,350, Cl. 318-254.000.

Lehning, Heinz, to Motorola, Inc. High voltage amplifier. 4,697,155, 9-29-87, Cl. 330-297.000.

Lehoczky, Kalman N.: *See*—
  Hohnstein, Dean H.; Jandovitz, John S.; and Lehoczky, Kalman N., 4,673,835, Cl. 310-217.000.

Lehoczky, Kent to GSE, Inc. Single pulse peak circuit for torque verification. 4,715,211, 12-29-87, Cl. 73-1.00C.

Le Houerou, Gilbert; Bouchez, Guy; Preynat, Pierre; and Villain, Charles, to Goro S.A. Devices for attaching one or a number of aerial cables thereto. 4,646,433, 3-3-87, Cl. 29-755.000.

Lehr, Adolf: *See*—
  Ehrhardt, Winfried; Richter, Klaus; and Lehr, Adolf, 4,695,047, Cl. 269-309.000.

Lehr, Bernd C.: *See*—
  Koeling, Thijs; Lehr, Bernd C.; and Broekhuizen, Willem, 4,711,303, Cl. 166-250.000.

Lehr, Erich: *See*—
  Weber, Karl-Heinz; Schneider, Claus; Walther, Gerhard; Hinzen, Dieter; Kuhn, Franz J.; Lehr, Erich; Ensinger, Helmut; and Troger, Wolfgang, 4,670,456, Cl. 514-424.000.

Lehr, Friedrich, to Sandoz Ltd. Tetrakisazo compounds having two 1-hydroxy-3- or 4-sulfo-6- or 7-amino- or substituted amino-naphthalene coupling component radicals the amino or substituted amino groups of which are linked 1,3,5-triazine rings. 4,670,547, 6-2-87, Cl. 534-637.000.

Lehr, Lothar: *See*—
  Stedron, Horst; and Lehr, Lothar, 4,665,654, Cl. 49-484.000.

Lehr, Marvin H., to B.F. Goodrich Company, The. Method and composition for improved melt processability of chlorinated polyvinyl chloride. 4,647,626, 3-3-87, Cl. 525-238.000.

Lehr, Marvin H., to B. F. Goodrich Company, The. Stabilization of vinyl chloride polymers. 4,711,921, 12-8-87, Cl. 524-180.000.

Lehrach, Ronald P. C.: *See*—
  Kay, Ira W.; and Lehrach, Ronald P. C., 4,691,288, Cl. 364-511.000.

Lehrer, Marc: *See*—
  Van de Carr, F. Rene; and Lehrer, Marc, 4,655,715, Cl. 434-258.000.

Lehrer, Nurit: *See*—
  Segal, Ester; and Lehrer, Nurit, 4,701,444, Cl. 514-55.000.

Lehrer, Robert I.; and Selsted, Michael E., to University of California, The Regents of the. Cationic oligopeptides having microbicida activity. 4,659,692, 4-21-87, Cl. 514-12.000.

Lehrer, Robert I.; Selsted, Michael E.; and Ganz, Tomas, to Universit of California, The Regents of the. Cationic oligopeptides having microbicidal activity. 4,705,777, 11-10-87, Cl. 514-12.000.

Lehrer, William I., to Fairchild Camera & Instrument Corp. Stre relieved intermediate insulating layer for multilayer metalizatio 4,654,269, 3-31-87, Cl. 428-428.000.

Lehrer, William I.; and Crossley, P. Anthony, to Fairchild Semiconduc tor Corporation. Photomask having a patterned carbon light-block ing coating. 4,704,342, 11-3-87, Cl. 430-5.000.

Lehrmann, Joachim: *See*—
  Bortfeld, Harald; Danne, Lutz; Lehrmann, Joachim; and Kla Alfred, 4,660,430, Cl. 74-335.000.

Lehti, Pauli. Drawings aid for making drawings in perspectiv 4,689,017, 8-25-87, Cl. 434-91.000.

Lehtikoski, Olavi; and Nissinen, Martti. Apparatus for measuring op cal properties of paper. 4,678,325, 7-7-87, Cl. 356-73.000.

Lehto, Arto: *See*—
  Savolainen, Esko; Laukkarinen, Tuomo; Lehto, Arto; Oksma Erkki; and Eilamo, Unto, 4,636,181, Cl. 474-207.000.

Lehtonen, Pertti T.: *See*—
  Salminen, Karl O.; Heino, Heimo J.; Lehtonen, Pertti T.; Koskine Seppo V.; Kivisto, Tuomo V.; Rinta-Keturi, Lasse J.; and Sipi Heikki J., 4,703,846, Cl. 198-631.000.

Lei, Lawrence C.: *See*—
  Freeman, Kenneth F.; Garrett, Charles B.; Harra, David J.; a Lei, Lawrence C., 4,714,536, Cl. 204-298.000.

Leib, Kenneth G.; Peck, Alexander N., II, and Jue, Suey, to Grumm Aerospace Corporation. System and method for automatically fab cating multi-hologram optical elements. 4,703,994, 11-3-87, 350-375.000.

Leib, Tiberiu M.: *See*—
  Derr, W. Rodman, Jr.; Garwood, William E.; Kuo, James C.; L Tiberiu M.; Nace, Donald M.; and Tabak, Samuel A., 4,684, Cl. 585-330.000.

Leibee, Bruce K., and Modrak, James P., to Hercules Incorporated. Premix injection system for asphalt compositions. 4,662,759, 5-5-87, Cl. 366-2.000.

Leibee, Donald L., and Crist, Owen K., to Marmon Group, Inc., The. Drill bit. 4,711,312, 12-8-87, Cl. 175-393.000.

Leiber, Heinz, to Robert Bosch GmbH. Vehicle brake system including means for reducing drive slip. 4,643,485, 2-17-87, Cl. 303-96.000.

Leiber, Heinz, to Robert Bosch GmbH. Brake Booster. 4,645,272, 2-24-87, Cl. 303-119.000.

Leiber, Heinz; Jonner, Wolf-Dieter; and Czinczel, Armin, to Robert Bosch GmbH. Vehicular anti-brake lock system and method of controlling braking pressure. 4,647,115, 3-3-87, Cl. 303-106.000.

Leiber, Heinz, to Robert Bosch GmbH. Hydraulic brake booster with travel simulator and associated anti-skid brake system. 4,655,511, 4-7-87, Cl. 303-92.000.

Leiber, Heinz, to Robert Bosch GmbH. Brake system having a brake booster. 4,655,512, 4-7-87, Cl. 303-114.000.

Leiber, Heinz; and Mergenthaler, Robert, to Robert Bosch GmbH. Brake valve. 4,657,046, 4-14-87, Cl. 137-627.500.

Leiber, Heinz, to Robert Bosch GmbH. Apparatus and method of controlling braking of an automotive vehicle operating in a curved path. 4,657,314, 4-14-87, Cl. 303-100.000.

Leiber, Heinz, to Robert Bosch GmbH. Brake system with brake booster. 4,660,897, 4-28-87, Cl. 303-114.000.

Leiber, Heinz, to Robert Bosch GmbH. Anti-skid brake system and anti-drive-slip system. 4,662,687, 5-5-87, Cl. 303-110.000.

Leiber, Heinz, to Robert Bosch GmbH. Brake booster. 4,674,805, 6-23-87, Cl. 303-114.000.

Leiber, Heinz, to Robert Bosch GmbH. Method and apparatus for controlling brake pressure in vehicle brake systems. 4,678,243, 7-7-87, Cl. 303-114.000.

Leiber, Heinz, to Daimler-Benz Aktiengesellschaft. Propulsion control system for motor vehicles. 4,700,797, 10-20-87, Cl. 180-197.000.

Leiber, Heinz, to Daimler-Benz Aktiengesellschaft. Propulsion control system for motor vehicles. 4,704,541, 11-3-87, Cl. 307-9.000.

Leiber, Heinz, to Robert Bosch GmbH. Valve arrangement. 4,711,266, 12-8-87, Cl. 137-554.000.

Leiber, Heinz, to Robert Bosch GmbH. Hydraulic brake booster. 4,715,661, 12-29-87, Cl. 303-10.000.

Leiber, Heinz: *See—*
  Bertling, Hannes; and Leiber, Heinz, 4,640,555, Cl. 303-10.000.

Leibfred, Kevin J., to Nabisco Brands, Inc. Continuous production of shelf-stable multi-textured shredded cereal biscuits having a paste filling. 4,696,825, 9-29-87, Cl. 426-283.000.

Leibfried, Wolfgang: *See—*
  Modic, Fedor; Leibfried, Wolfgang; Nitsch, Manfred; Spitzenberger, Kurt; and Zimmermann, Herbert, 4,640,739, Cl. 156-659.100.

Leibhard, Erich; and Herb, Armin, to Hilti Aktiengesellschaft. Expansion anchor assembly. 4,656,806, 4-14-87, Cl. 52-704.000.

Leibig, Wilhelm, to Voith S/A - Maquinas e Equipamentos. System for extraction of soluble matter from fibrous material. 4,664,716, 5-12-87, Cl. 127-6.000.

Leibinger, Janice M.: *See—*
  Sureau, Jean-Claude; and Leibinger, Janice M., 4,656,487, Cl. 343-909.000.

Leibinsohn, Saul. Fluid control device particularly useful in liquid transfusion apparatus. 4,694,856, 9-22-87, Cl. 137-555.000.

Leible, Walter T.: *See—*
  Finan, Anthony T., Sr.; Lowery, Richard K., Sr.; and Leible, Walter T., 4,689,937, Cl. 53-502.000.

Leiboff, Arnold. Method and apparatus for intestinal irrigation. 4,637,814, 1-20-87, Cl. 604-27.000.

Leibowitz, Joseph D., to TRW Inc. Method of fabricating multilayer printed circuit board structure. 4,689,110, 8-25-87, Cl. 156-634.000.

Leibowitz, Lawrence M., to United States of America, Navy. Multiplexed digital correlator. 4,660,164, 4-21-87, Cl. 364-728.000.

Leiby, David W.; and Young, Joseph C., to General Electric Company. Borescope calibration. 4,669,874, 6-2-87, Cl. 356-124.500.

Leiby, Douglas J., to AMP Incorporated. Improved applicator tooling for certain electrical connectors. 4,667,398, 5-26-87, Cl. 29-749.000.

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  Chen, Nai Y.; Degnan, Thomas F., Jr.; Leiby, Susan M.; Oleck, Stephen M.; and Pelrine, Bruce P., 4,711,710, Cl. 208-111.000.

Leich, Alice: *See—*
  Hixenbaugh, Dennis L., and Leich, Alice, 4,676,107, Cl. 73-706.000.

Leichnitz, Kurt, to Dragerwerk Aktiengesellscaft. Colorimetric indicator for the indication of the exhaustion of gas filters. 4,684,380, 8-4-87, Cl. 55-274.000.

Leicht, John L., to Motorola, Inc. Method and apparatus for dispensing solder paste. 4,636,406, 1-13-87, Cl. 427-96.000.

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Leicht, Larry F., to Q'SO, Inc. Thermally applied sealants and process. 4,677,133, 6-30-87, Cl. 521-51.000.

Leicht, Werner; Ruetz, Georg; and Giesselmann, Juergen, to MTU-Motoren- und Turbinen-Union Friedrichshafen GmbH. Fluid flow machine. 4,702,672, 10-27-87, Cl. 415-164.000.

Leichter, Hans: *See—*
  Hoffmann, Peter; Buschmann, Gerhard; Leichter, Hans; and Welp, Ewald, 4,676,094, Cl. 73-78.000.

Leichtfried, Friedrich; Wuerthner, Hubert; and Himmetsberger, Alois, to TMC Corporation. Heel holder. 4,684,146, 8-4-87, Cl. 280-626.000.

Leichtfried, Fritz: *See—*
  Luschnig, Franz; Wuerthner, Hubert; Kameder, Herbert; and Leichtfried, Fritz, 4,699,398, Cl. 280-633.000.

Leidecker, Hans-Dieter: *See—*
  Weiler, Rolf; Kretzer, Horst; and Leidecker, Hans-Dieter, 4,650,039, Cl. 188-73.440.

Leidel, Dieter S.; Eirich, Hubert; Eirich, Paul; and Eirich, Walter. Method of regenerating old casting sand. 4,681,267, 7-21-87, Cl. 241-23.000.

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Leider, Michael J. Ball quiver. 4,706,860, 11-17-87, Cl. 224-247.000.

Leidheiser, Henry, Jr.; and Konno, Hidetaka, to Lehigh University. Corrosion inhibited metal. 4,681,814, 7-21-87, Cl. 428-457.000.

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  Krehm, Herman S.; Leidner, Jacob; and Rode, Malcolm E., 4,660,363, Cl. 57-31.000.

Leiendecker, Arno: *See—*
  Rotermund, Hermann; Wiesmann, Herbert L.; and Leiendecker, Arno, 4,676,469, Cl. 248-243.000.

Leifeld, Ferdinand, to Trutzschler GmbH & Co. KG. Apparatus for pneumatically feeding a plurality of carding machines. 4,701,981, 10-27-87, Cl. 19-105.000.

Leifeld, Ferdinand; and Teichmann, Paul, to Trutzschler GmbH & Co. KG. Apparatus for detecting foreign bodies, such as pieces of metal or the like, in textile fiber bales. 4,707,887, 11-24-87, Cl. 19-0.200.

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  Langen, Manfred; and Leifeld, Ferdinand, 4,688,300, Cl. 19-159.00A.

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  Schafer, Dieter, 4,679,817, Cl. 280-655.000.

Leigh, Arthur G.; and Martin, John R., to Lever Brothers Company. Device for conditioning fabrics in the tumble-dryer. 4,706,802, 11-17-87, Cl. 206-0.500.

Leigh, Harold G., to Bio-Medical Resources, Inc. Biopsy device. 4,667,684, 5-26-87, Cl. 128-754.000.

Leigh, Harold G.; and Schachet, Eli, to Baxter Travenol Laboratories, Inc. Syringe lock. 4,711,637, 12-8-87, Cl. 604-220.000.

Leigh, John W., to United Kingdom of Great Britain and Northern Ireland, The Secretary of State for Defence in Her Britannic Majesty's Government of the. Modular ground mine. 4,691,637, 9-8-87, Cl. 102-406.000.

Leigh-Monstevens, Keith V., to Automotive Products plc. Quick connect cylinder mount structure. 4,640,478, 2-3-87, Cl. 248-27.100.

Leigh-Monstevens, Keith V., to Automotive Products plc. Concentric slave cylinder for motor vehicle clutch control mechanism. 4,684,003, 8-4-87, Cl. 192-85.0CA.

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Leigh-Monstevens, Keith V.; Nix, Richard A.; and Patalidis, Claude A., deceased (by Patalidis, Monique, executrix), to Automotive Products plc. Hydraulic slave cylinder interlock switching device with proximity sensor. 4,705,151, 11-10-87, Cl. 192-111.00A.

Leigh-Monstevens, Keith V., to Automotive Products plc. Bearing support for motor vehicle clutch control apparatus. 4,708,228, 11-24-87, Cl. 192-85.0CA.

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Leigh-Monstevens, Keith V.: *See—*
  Barker, David C.; Wrobleski, David L.; Nix, Richard A.; and Leigh-Monstevens, Keith V., 4,665,802, Cl. 92-23.000.
  Nix, Richard A.; Kassin, Charles A.; and Leigh-Monstevens, Keith V., 4,660,694, Cl. 192-85.0CA.

Leigh, Thomas, to Imperial Chemical Industries Limited. Cyclopropane carboxylic acid derivatives. 4,683,089, 7-28-87, Cl. 260-501.160.

Leight, Ronald S.: *See—*
  Warren, Craig B.; Munteanu, Marina A.; Schwartz, Gary F.; Benaim, Carlos; Walter, Henry G., Jr.; Leight, Ronald S.; Withycombe, Donald A.; Mookherjee, Braja D.; and Trenkle, Robert W., 4,670,264, Cl. 424-195.100.
  Warren, Craig B.; Munteanu, Marina A.; Schwartz, Gary E.; Benaim, Carlos; Walter, Henry G., Jr.; Leight, Ronald S.; Withycombe, Donald A.; Mookherjee, Braja D.; and Trenkle, Robert W., 4,670,463, Cl. 514-464.000.
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Leighton, Harry J., to Burroughs Wellcome Co. Phenothiazine compounds. 4,705,854, 11-10-87, Cl. 544-41.000.

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Leighton, Sam R.: *See—*
  Koch, John W.; and Leighton, Sam R., 4,674,462, Cl. 123-533.000.

Leikert, Klaus, to L. & C. Steinmuller GmbH. Method of binding sulfur compounds by adding additives. 4,642,225, 2-10-87, Cl. 423-244.000.

Leikus, Vincent C., to Rohde & Schwarz - Polarad, Inc. Enhanced frequency determination for spectrum analyzers or the like. 4,672,308, 6-9-87, Cl. 324-77.00B.

Leilabady, Pedram A.: *See—*
Jones, Julian D. C.; Jackson, David A.; and Leilabady, Pedram A., 4,706,502, Cl. 73-861.240.
Leimgruber, John. Carriage device. 4,659,096, 4-21-87, Cl. 280-39.000.
Leine & Konig: *See—*
Schrimpf, Christian, 4,712,945, Cl. 405-132.000.
Leinen, Hans T.: *See—*
Gerhardt, Werner; Fischer, Herbert; Lehmann, Rudolf; Disch, Karlheinz; and Leinen, Hans T., 4,652,585, Cl. 514-563.000.
Leiner, Dennis C.: *See—*
Prescott, Rochelle; and Leiner, Dennis C., 4,641,927, Cl. 350-413.000.
Leiner, Howard H.: *See—*
Russell, David B.; Gitlitz, Melvin H.; Leiner, Howard H.; Khuddus, Mo A.; and Berger, Abe, 4,687,792, Cl. 523-177.000.
Leiner, Kevin P.: *See—*
Price, James R.; and Leiner, Kevin P., 4,703,989, Cl. 439-283.000.
Leinert, Herbert, to Boehringer Mannheim GmbH. Process for the preparation of optically-active carbazole derivatives, new R- and S-carbazole derivatives and pharmaceutical compositions containing these compounds. 4,697,022, 9-29-87, Cl. 548-444.000.
Leineweber, Gunter; Warnecke, Rolf; and Ruhmer, Heinz, to Volkswagenwerk Aktiengesellschaft. Unbalanced hydraulic amplifier valve assembly. 4,638,719, 1-27-87, Cl. 91-373.000.
Leineweber, Gunter; and Warnecke, Rolf, to Volkswagen Aktiengesellschaft. Hydraulic amplifier valve assembly. 4,697,497, 10-6-87, Cl. 91-372.000.
Leineweber, Michael: *See—*
Caruthers, Marvin H.; Leineweber, Michael; Leitner, Moshe; and Stabinsky, Yitzhak, 4,716,217, Cl. 530-351.000.
Puhler, Alfred; Wolleben, Wolfgang; and Leineweber, Michael, 4,673,642, Cl. 435-91.000.
Leinfelder, Klaus, to Cullmann Handelsgesellschaft fur Verbrauchsguter mbH. Support stand with adjustable legs. 4,695,021, 9-22-87, Cl. 248-168.000.
Leinfelder, Klaus: *See—*
Cullmann, Wolfgang; and Leinfelder, Klaus, 4,706,916, Cl. 248-168.000.
Leinfellner, Herwig; and Kriebernegg, August, to Steyr-Daimler-Puch AG. Liquid friction coupling. 4,703,842, 11-3-87, Cl. 192-58.00B.
Leinhaas, Werner, to E. Bruderer Maschinenfabrik AG. Elbow lever sheet metal cutting press consisting of a press frame and a press ram. 4,660,452, 4-28-87, Cl. 83-530.000.
Leini, Arvo, to Santrade Limited. Device for a motorized saw. 4,665,618, 5-19-87, Cl. 30-392.000.
Leining, Lyndon R., to Geo. A. Hormel & Co. Carcass splitting apparatus. 4,653,150, 3-31-87, Cl. 17-23.000.
Leining, Lyndon R., to Geo. A. Hormel & Co. Apparatus for splitting animal heads. 4,662,028, 5-5-87, Cl. 17-1.00R.
Leining, Lyndon R., to Geo. A. Hormel & Co. Apparatus and method for stripping casing from sausages. 4,682,387, 7-28-87, Cl. 17-49.000.
Leininger, Hartmut; Littmann, Wolfgang; Paust, Joachim; and Trautmann, Walter, to BASF Aktiengesellschaft. 2-amino-3,5-di-(halomethyl)-pyrazines and their preparation. 4,692,527, 9-8-87, Cl. 544-405.000.
Leininger, Jon J. Air motor having integral generator. 4,678,922, 7-7-87, Cl. 290-54.000.
Leinonen, Maija K.: *See—*
Makela, Pirjo H.; Leinonen, Maija K.; Nurminen-Kalliokoski, Marjatta H.; and Saikku, Pekka A. I., 4,652,518, Cl. 435-7.000.
Leipold, Ludwig: *See—*
Einzinger, Josef; Fellinger, Christine; Leipold, Ludwig; Tihanyi, Jenoe; and Weber, Roland, 4,677,325, Cl. 307-574.000.
Einzinger, Josef; Fellinger, Christine; Leipold, Ludwig; Tihanyi, Jenoe; and Weber, Roland, 4,691,129, Cl. 307-581.000.
Tihanyi, Jenoe; Fellinger, Christine; and Leipold, Ludwig, 4,688,071, Cl. 357-41.000.
Leipold, Michael: *See—*
Sommerer, Jurgen; Leipold, Michael; Kainer, Hartmut; and Stein, Hermann, 4,677,731, Cl. 29-526.00R.
Leir, Charles M., to Riker Laboratories, Inc. Process for the preparation of derivatives of pyrrolidine and piperidine. 4,642,384, 2-10-87, Cl. 568-337.000.
Leir, Charles M., to Riker Laboratories, Inc. Process for the preparation of a derivative of piperidine. 4,650,873, 3-17-87, Cl. 546-233.000.
Leir, Charles M.; and Stark, John E., to Minnesota Mining and Manufacturing Co. Ionene elastomers. 4,677,182, 6-30-87, Cl. 528-109.000.
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Leis, Johann: *See—*
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Leis, Roland: *See—*
Muller, Richard; Leis, Roland; and Zinssmeister, Axel, 4,711,189, Cl. 112-121.120.
Leisegang Feinmechanik Optik GmbH: *See—*
Klabes, Karl-Heinz, 4,652,103, Cl. 354-62.000.
Leisi, Marcel, to Exit S.A. Spray nozzle, particularly adapted for spray guns. 4,635,850, 1-13-87, Cl. 239-119.000.
Leising, John O.: *See—*
Reynes, Enrique G.; and Leising, John O., 4,639,517, Cl. 544-85.000.
Leising, Lawrence J., to Schlumberger Technology Corporation. Methods and apparatus for controlled directional drilling of boreholes. 4,637,479, 1-20-87, Cl. 175-26.000.
Leisman, Gerald; and Hed, A. Zeev. Apparatus and method for ligating a body vessel. 4,686,983, 8-18-87, Cl. 128-325.000.
Leisman, Thomas; and Huston, Jon, to Dynavac, Inc. Escape chute. 4,681,186, 7-21-87, Cl. 182-47.000.
Leister, Judith A. Removable swimming pool cover. 4,667,352, 5-26-87, Cl. 4-498.000.
Leister, Peter, to Deutsche Gesellschaft. Apparatus for the continuous treatment of fragmented fuel elements. 4,636,362, 1-13-87, Cl. 422-105.000.
Leistikow, Keith A.: *See—*
Hoepfner, Thomas L.; and Leistikow, Keith A., 4,693,063, Cl. 56-16.600.
Leistner, Hans: *See—*
Hlawatschek, Hartmut; Leistner, Hans; and Gelsdorf, Gunter, 4,648,097, Cl. 373-93.000.
Leistner, Herbert E. Nail strip with covered wire attaching means. 4,679,975, 7-14-87, Cl. 411-443.000.
Leistner, Walter H., to Sigma Tool & Machine Limited. Nail collator and welder. 4,711,980, 12-8-87, Cl. 219-56.000.
Leistner, William E.; Nakahara, Yutaka; Hirai, Bunji; and Kanai, Mitsuharu, to Adeka Argus Chemical Co., Ltd. Vinyl benzyl 2,2,6,6-tetramethyl piperidines. 4,692,485, 9-8-87, Cl. 524-99.000.
Leisure Life Limited: *See—*
Billmayer, Charles E.; and Koch, Robert P., 4,668,196, Cl. 440-26.000.
Leite, Peter G., to P.G.L. Industries, Inc. Security device for office machines. 4,712,763, 12-15-87, Cl. 248-553.000.
Leiter, Berndt, to Ets. Huret et ses Fils. Speed change mechanism for a bicycle. 4,676,118, 6-30-87, Cl. 74-475.000.
Leiter, Gittle; and Mahon, Timothy P. Quick assembly and knockdow building structure. 4,676,039, 6-30-87, Cl. 52-282.000.
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Leitgeb, Wilhelm, to Siemens Aktiengesellschaft. Synchronous electrical machine with permanent magnet excitation. 4,677,331, 6-30-87, Cl. 310-156.000.
Leith, William C. Rotating disc wood chip refiner. 4,712,745, 12-15-87, Cl. 241-261.300.
Leitner Corporation: *See—*
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Leitner, Michael W.: *See—*
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Leitz, Richard: *See—*
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Leitzel, Larry L.: *See—*
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Leitzke, Ortwin; and Wolf, Ewald, to Messer Griesheim GmbH. Device for producing ozone. 4,656,010, 4-7-87, Cl. 422-186.180.
Leivenzon, Simon; and Leivenzon, Zvi, to Firmagroup Australia Pty Ltd. Door operator. 4,706,727, 11-17-87, Cl. 160-188.000.
Leivenzon, Zvi: *See—*
Leivenzon, Simon; and Leivenzon, Zvi, 4,706,727, Cl. 160-188.000.
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Lejeune, Guy, to Nouvel, Colette. Preparation and use of substituted bisphenols. 4,683,345, 7-28-87, Cl. 568-726.000.
Le Jeune, Gwenole J. Method for the treatment of moist products. 4,650,546, 3-17-87, Cl. 201-6.000.
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Appelgren, Curt H.; and Ivarsson, Nemo, 4,636,163, Cl. 425-332.000.
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Lekander, Karl-Erik: *See—*
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Lekavich, Carl W. Fence system with one-piece posts. 4,682,762, 7-28-87, Cl. 256-65.000.
Lekebusch, Ronald C.; O'Neil, John T., Jr.; and Muzeroll, Martin E., to GTE Products Corporation. Method and apparatus for position orientation of a metal halide lamp base assembly. 4,687,453, 8-18-87, Cl. 445-4.000.
Le-Khac, Bi, to Atlantic Richfield Company. Water absorbent polymer composition. 4,705,773, 11-10-87, Cl. 502-402.000.
Lekholm, Anders, to Siemens Aktiengesellschaft. Heart pacemaker with respiratory signal generation capability. 4,694,830, 9-22-87, Cl. 128-419.0PG.
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Lekholm, Anders: *See—*
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Lekhtman, David. Water sport equipment. 4,708,076, 11-24-87, Cl. 114-39.200.

- Leland, John E.; Dix, James S.; and Shue, Robert S., to Phillips Petroleum Company. Zinc oxide in poly(arylene sulfide) compositions. 4,659,761, 4-21-87, Cl. 524-262.000.
- Leland, John E.; Dix, James S.; and Wright, Roy F., to Phillips Petroleum Company. Poly(arylene sulfide) composition with improved insulation resistance and cracking resistance. 4,680,326, 7-14-87, Cl. 524-106.000.
- Leland, John E.: *See*—
  - Needham, Donald G., and Leland, John E., 4,654,225, Cl. 427-53.100.
- Leland, Kenneth W.; and Sollenberger, Nelson R., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Technique for improving radio system performance during fading. 4,661,993, 4-28-87, Cl. 455-103.000.
- Leland Standford Jr. University, The Board of Trustees of the: *See*—
  - Demetrescu, Stefan, 4,648,045, Cl. 364-518.000.
  - Fejer, Martin M.; Magel, Gregory A.; and Byer, Robert L., 4,650,322, Cl. 356-73.100.
- Leland Stanford Jr. University, The Board of Trustees of the: *See*—
  - Kaplan, Henry S.; and Olsson, Lennart, 4,668,629, Cl. 435-172.200.
  - Ringold, Gordon M., 4,656,134, Cl. 435-91.000.
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  - Bowers, John E., and Kino, Gordon S., 4,652,744, Cl. 250-227.000.
  - Bracewell, Ronald N., 4,646,256, Cl. 364-725.000.
  - Desurvire, Emmanuel; Digonnet, Michel J. F.; and Shaw, H. J., 4,708,421, Cl. 350-96.150.
  - Engleman, Edgar G.; Foung, Steven K. H.; and Grumet, F. Carl, 4,634,666, Cl. 435-68.000.
  - Fathman, C. Garrison, 4,681,760, Cl. 424-85.000.
  - Galbraith, Douglas C., 4,679,560, Cl. 128-419.00R.
  - Gardner, Donald S.; Saraswat, Krishna C.; and Barbee, Troy W., Jr., 4,673,623, Cl. 428-620.000.
  - Goodwin, David A., and Meares, Claude F., 4,634,586, Cl. 424-1.100.
  - Grumet, Frank C., and Engleman, Edgar G., 4,657,852, Cl. 435-7.000.
  - Kim, Byoung Y., 4,637,722, Cl. 356-350.000.
  - Kino, Gordon S.; Stearns, Richard G.; and Khuri-Yakub, Butrus T., 4,683,750, Cl. 73-606.000.
  - Larrick, James W.; Ringold, Gordon M.; Mark, David F.; Lin, Leo S.; and Torti, Frank M., 4,684,623, Cl. 514-12.000.
  - Lefevre, Herve C., 4,687,330, Cl. 356-350.000.
  - Levy, Ronald; Dilley, Jeanette; Maloney, David G.; and Miller, Richard A., 4,661,586, Cl. 530-387.000.
  - Macovski, Albert, 4,686,695, Cl. 378-146.000.
  - Moslehi, Mehrdad M.; Fu, Chi Y.; and Saraswat, Krishna 4,715,937, Cl. 204-177.000.
  - Nozaki, Tom, Jr.; Sweet, Richard G.; Stovel, Richard T.; and Parks, David R., 4,667,830, Cl. 209-3.100.
  - Raffin, Thomas A., and Stevens, John H., 4,686,100, Cl. 424-85.000.
  - Shan, Tiejun J.; and Kailath, Thomas, 4,641,259, Cl. 364-724.000.
  - Shaw, Herbert J., and Pavlath, George A., 4,634,282, Cl. 356-350.000.
  - Shaw, Herbert J., 4,634,852, Cl. 250-227.000.
  - Shaw, Herbert J.; and Newton, Steven A., 4,652,079, Cl. 350-96.150.
  - Shaw, Herbert J.; Bergh, Ralph A.; and Lefevre, Herve C., 4,671,658, Cl. 356-350.000.
  - Shaw, Herbert J.; and Digonnet, Michel J. F., 4,674,830, Cl. 350-96.150.
  - Shaw, Herbert J.; Bowers, John E.; and Newton, Steven A., 4,676,585, Cl. 350-96.150.
  - Shaw, Herbert J.; Youngguist, Robert C.; and Brooks, Janet L., 4,684,215, Cl. 350-96.290.
  - Steinman, Lawrence; Waldor, Matthew K.; Sriram, Subramanian; Herzenberg, Leonard A.; and Herzenberg, Leonore A., 4,695,459, Cl. 424-95.000.
  - Strong, Alexander R.; and Karplus, Kevin J., 4,649,783, Cl. 84-1.010.
  - Van Compernolle, Dirk S., 4,648,403, Cl. 128-419.00R.
  - Wandell, Brian A.; and Maloney, Laurence T., 4,648,051, Cl. 364-526.000.
  - Youngquist, Robert C.; Brooks, Janet L.; Fesler, Kenneth A.; Cutler, Cassius C.; and Shaw, Herbert J., 4,697,926, Cl. 356-345.000.
  - Zare, Richard N.; and Gassmann, Ernst, 4,675,300, Cl. 436-172.000.
- Lelental, Mark; Lee, James K.; and VanKerkhove, Alan P., to Eastman Kodak Company. Multicolor laser recording method and element. 4,684,602, 8-4-87, Cl. 430-363.000.
- Lelgemann, Ludwig: *See*—
  - Ebel, Klaus; Reuther, Wolfgang; Weiss, Wolfram; and Lelgemann, Ludwig, 4,668,785, Cl. 544-196.000.
- Leling, Menno; and Hagenah, Gerhard, to SF-Vollverbundstein-Kooperation GmbH. Shaped (concrete) block for retaining walls and also a retaining wall. 4,711,606, 12-8-87, Cl. 405-286.000.
- Lelkes, Peter: *See*—
  - Pollard, Harvey B.; Ornberg, Richard; Banerjee, Dipak; Youdim, Moussa; Lelkes, Peter; and Heldman, Eli, 4,670,394, Cl. 435-240.000.
- Lelong, Bernard, to Societe Nationale Elf Aquitaine (Production). Method of preparing gas samples from liquids initially containing such gases. 4,699,886, 10-13-87, Cl. 436-60.000.
- Lelu, Andre E.; Grignon, Jean R.; Gonthier, Bruno F.; and Tauzia, Jean-Michel, to Societe Nationale des Poudres et Explosifs. Combustion inhibitor based on an aliphatic polyurethane elastomer for a propellant, and block coated with this inhibitor. 4,638,735, 1-27-87, Cl. 102-290.000.
- Le Ludec, Joel; Machurat, Jean; Morawski, Jean-Claude; and Soula, Gerard, to Rhone-Poulenc Chimie de Base. Sulfurized tepa/amido compounds as interface agents for vulcanizable elastomeric matrices. 4,701,492, 10-20-87, Cl. 524-493.000.
- Lem, Hans J. Conveyor system diverter turn assembly. 4,696,386, 9-29-87, Cl. 198-372.000.
- Lem S.A.: *See*—
  - Cattaneo, Pierre, 4,682,101, Cl. 324-117.00H.
- Le Magourou, Yves, to Societe d'Exploitation des Procedes Marechal (SEPM). High intensity power plug. 4,678,254, 7-7-87, Cl. 439-139.000.
- LeMahieu, Ronald A.: *See*—
  - Carson, Matthew, and LeMahieu, Ronald A., 4,663,332, Cl. 514-340.000.
  - Carson, Matthew; Han, Ru-Jen L.; and LeMahieu, Ronald A., 4,672,066, Cl. 514-256.000.
- Lemaire, Didier V., and Dronet, Jean-Marc, to E.P. Remy & Cie. Conveyor for containers. 4,697,695, 10-6-87, Cl. 198-803.150.
- Lemaire, Frederic, to Thomson-CSF. Differential current amplifier. 4,709,217, 11-24-87, Cl. 330-258.000.
- Lemaire, Marcel: *See*—
  - Cordier, Jean; and Lemaire, Marcel, 4,649,867, Cl. 122-5.000.
- Lemaire, Michele: *See*—
  - Clement, Jean-Luc; Lemaire, Michele; Lange, Catherine; Lhommet, Gerard; Celerier, Jean-Pierre; Basselier, Jean-Jacques; and Cassier, Pierre, 4,707,489, Cl. 514-408.000.
- Leman, Jean-Luc; and Suzzi, Robert J., to Societe Nationale Industrielle et Aerospatiale. Device incorporating retractable stops for limiting the flappings of the blades of the main rotor of a rotorcraft. 4,652,210, 3-24-87, Cl. 416-140.000.
- Leman, Robert: *See*—
  - McCutcheon, Samuel; Lum, Jeffrey; Solek, Roman; Harrell, Troy; and Leman, Robert, 4,710,893, Cl. 364-900.000.
- Le Maout, Theophile F.; Marchi, Marc R.; and Ollivier, Andre F., to Societe National d'Etude et de Construction de Moteurs d'Aviation "S.N.E.C.M.A." Multifunction labyrinth seal support disk for a turbojet engine rotor. 4,668,167, 5-26-87, Cl. 416-95.000.
- Le Marchand, Claude, and Gerard, Jean-Louis, to Bendix France. Disk brake with automatic adjustment. 4,635,760, 1-13-87, Cl. 188-71.900.
- Le Marchand, Claude; and Gerard, Jean-Louis, to Bendix France. Disc brake with automatic adjustment. 4,691,809, 9-8-87, Cl. 188-71.900.
- Le Marchand, Claude: *See*—
  - Gerard, Jean-Louis, and Le Marchand, Claude, 4,673,065, Cl. 188-73.380.
- Lemarer, Rene: *See*—
  - Le Noane, Georges; Boscher, Daniel; and Lemarer, Rene, 4,666,541, Cl. 156-158.000.
- Lemarquand, Pierre; and Pierrot, Henri, to La Telemecanique Electrique. Additive block couplable to a circuit breaker. 4,635,013, 1-6-87, Cl. 335-20.000.
- Lemarquand, Pierre: *See*—
  - Belbel, Elie; Lauraire, Michel; Moreau, Luc; Lemarquand, Pierre; Paggi, Serge; and Comtois, Patrick, 4,647,741, Cl. 200-151.000.
  - Eschermann, Guy; and Lemarquand, Pierre, 4,689,714, Cl. 361-167.000.
  - Eschermann, Guy; and Lemarquand, Pierre, 4,701,067, Cl. 403-326.000.
- Lemarquis, Jean-Claude: *See*—
  - Dolhen, Gerard; Oberlin, Claude; Lemarquis, Jean-Claude; and Bandura, Daniel, 4,705,259, Cl. 251-61.100.
- Le Martret, Odile: *See*—
  - Clemence, Francois; Le Martret, Odile; and Delevallee, Francoise, 4,636,512, Cl. 514-312.000.
  - Clemence, Francois; and Le Martret, Odile, 4,687,857, Cl. 548-195.000.
- LeMaster, William; and Grendahl, Dennis T., to Surgidev Corporation. Intraocular lens and method for making same. 4,676,791, 6-30-87, Cl. 623-6.000.
- LeMaster, William: *See*—
  - Grendahl, Dennis T., and LeMaster, William, 4,661,108, Cl. 623-6.000.
- LeMay, Christopher A. G., to EMI Limited. Robot control systems. 4,642,540, 2-10-87, Cl. 318-568.000.
- LeMay, Dan B.: *See*—
  - Bosley, Robert W.; Kirshman, Samson; LeMay, Dan B.; and Renken, Wayne G., 4,690,371, Cl. 251-65.000.
  - Renken, Wayne G.; LeMay, Dan B.; and Takahashi, Ricardo M., 4,685,331, Cl. 73-204.000.
- Lemay, Martin: *See*—
  - Cadieux, Serge M.; and Lemay, Martin, 4,676,871, Cl. 162-13.000.
- Lemay, Patrick, to Roquette Freres. Method and installation for the crystallization of mannitol. 4,670,611, 6-2-87, Cl. 568-868.000.
- Lemay, Patrick: *See*—
  - Serpelloni, Michel; and Lemay, Patrick, 4,661,647, Cl. 568-868.000.
- Lembach, Robert F.; Lewis, Steven D.; and Williams, Robert R., to International Business Machines. Method of optimizing signal timing delays and power consumption in LSI circuits. 4,698,760, 10-6-87, Cl. 364-490.000.
- Lembeck, Theo, to W. Schlafhorst & Co. Fiber conducting channel of an OE friction spinning device. 4,640,090, 2-3-87, Cl. 57-401.000.
- Lembeck, William. Safety closure for use in conjunction with bottling of champagne and other sparkling wines. 4,650,083, 3-17-87, Cl. 215-307.000.

Lemberger, Richard R.: *See*—

Tait, William C.; and Lemberger, Richard R., 4,689,636, Cl. 343-895.000.

Lembke, Herbert, to Mannesmann Rexroth GmbH. Control motor for a servo valve. 4,682,063, 7-21-87, Cl. 310-29.000.

Lembke, Robert W.; and Wiebeld, Howard J., to GTE Communication Systems Corporation. Disconnect circuit for use between telephone switching systems. 4,645,880, 2-24-87, Cl. 379-191.000.

Lemcke, Harland. Cutting mechanism for pole pruners. 4,649,646, 3-17-87, Cl. 30-231.000.

Le Mehaute, Alain: *See*—

Perichaud, Alain; and Le Mehaute, Alain, 4,664,991, Cl. 429-194.000.

Lemelman, Shimon: *See*—

Shenker, Leonid; and Lemelman, Shimon, 4,667,573, Cl. 92-48.000.

Lemelson, Jerome H. Tool and material manipulation apparatus and method. 4,636,137, 1-13-87, Cl. 414-730.000.

Lemelson, Jerome H. Magnetic recording and reproduction apparatus, system and method. 4,642,705, 2-10-87, Cl. 360-18.000.

Lemelson, Jerome H. Video system and method. 4,646,172, 2-24-87, Cl. 360-33.100.

Lemelson, Jerome H., and Grund, Christian. Image analysis system and method. 4,653,109, 3-24-87, Cl. 382-34.000.

Lemelson, Jerome H. Reaction apparatus and method. 4,655,146, 4-7-87, Cl. 110-346.000.

Lemelson, Jerome H. Scanning apparatus and method. 4,660,086, 4-21-87, Cl. 358-183.000.

Lemelson, Jerome H. Composition and method for detecting and treating cancer. 4,665,897, 5-19-87, Cl. 128-1.100.

Lemelson, Jerome H. Radiation beam apparatus and method. 4,666,678, 5-19-87, Cl. 422-186.000.

Lemelson, Jerome H. Vehicle performance monitor and method. 4,671,111, 6-9-87, Cl. 73-432.100.

Lemelson, Jerome H. Medical scanning, monitoring and treatment system and method. 4,671,256, 6-9-87, Cl. 128-[illegible].100.

Lemelson, Jerome H. Drug compositions and methods of applying same. 4,674,480, 6-23-87, Cl. 128-1.100.

Lemelson, Jerome H. Apparatus and method for coding objects. 4,675,498, 6-23-87, Cl. 219-121.0LB.

Lemelson, Jerome H. Contact lens containing light sensitive material. 4,681,412, 7-21-87, Cl. 351-162.000.

Lemelson, Jerome H. Audio visual apparatus and method. 4,681,548, 7-21-87, Cl. 434-311.000.

Lemelson, Jerome H. Electronically controlled printing device. 4,699,052, 10-13-87, Cl. 101-110.000.

Lemelson, Jerome H. Chemical reaction apparatus and method. 4,702,808, 10-27-87, Cl. 204-157.410.

Lemelson, Jerome H. Communication system and method. 4,710,977, 12-1-87, Cl. 455-603.000.

Le Mer, Gerard. Filing drum. 4,657,147, 4-14-87, Cl. 211-58.000.

Lemercier, Guy, to Commissariat a l'Energie Atomique. Fast neutron nuclear reactor comprising a suspended sealing slab and main vessel. 4,666,652, 5-19-87, Cl. 376-205.000.

Le Meur, Jean-Paul: *See*—

Le Mouel, Bernard; Le Bescont, Herve; and Le Meur, Jean-Paul, 4,682,334, Cl. 371-55.000.

Lemforder Metallwaren AG: *See*—

Hahle, Hermann, 4,707,149, Cl. 384-294.000.

Jordens, Ernst-Gunter, 4,645,188, Cl. 267-140.100.

Jordens, Ernst-Gunter, 4,653,734, Cl. 267-8.00R.

Munch, Gunter, 4,634,108, Cl. 267-57.10R.

Munch, Gunter, 4,671,678, Cl. 384-125.000.

Lemieux, George E.; Lewicki, Reginald T.; and Clauss, Julius A., to Ford Motor Company. Transaxle for a vehicle driveline. 4,638,686, 1-27-87, Cl. 74-688.000.

Leming, Anthony D.; and Dawson, Luther C. Hedge trimmer. 4,641,431, 2-10-87, Cl. 30-276.000.

Lemke, James U., to Eastman Kodak Company. Slider assembly with dynamically positionable transducer. 4,669,011, 5-26-87, Cl. 360-103.000.

Lemke, Kuno: *See*—

Buchner, Norbert; Lemke, Kuno; and Vogele, Gunter, 4,638,925, Cl. 222-21.000.

Lemke, Otto; and Krause, Manfred, to Carl Still GmbH & Co. KG, Firma. Readjustment device for coke oven batteries. 4,692,217, 9-8-87, Cl. 202-151.000.

Lemley, Thomas H.; Overdorf, Dennis G.; Ott, Kenneth A.; and Kozak, Valentine J., to Kollmorgen Corporation. Method and apparatus for winding slotted armatures. 4,671,465, 6-9-87, Cl. 242-7.030.

Lemme, Charles D.; and Lemme, Tracy R., to Copernicus Corporation. Cookware handle. 4,653,468, 3-31-87, Cl. 126-373.000.

Lemme, Tracy R.: *See*—

Lemme, Charles D.; and Lemme, Tracy R., 4,653,468, Cl. 126-373.000.

Lemmel, Steven A.: *See*—

Datta, Rathin; and Lemmel, Steven A., 4,649,112, Cl. 435-136.000.

Lemmens, Godfried. Process for decontaminating materials contaminated by radioactivity. 4,690,782, 9-1-87, Cl. 252-626.000.

Lemmens, Pierre L.: *See*—

Schwickert, Manfred J.; and Lemmens, Pierre L., 4,673,421, Cl. 55-238.000.

Lemmer, Alfred. IC rod-magazine. 4,635,794, 1-13-87, Cl. 206-328.000.

Lemmer, Alfred. Device for gripping electronic parts. 4,647,096, 3-3-87, Cl. 294-87.100.

Lemmer, Helmut; and Risthaus, Josef, to Square D Starkstrom GmbH. Motor safety switch. 4,688,011, 8-18-87, Cl. 335-159.000.

Lemmer, Helmut, to Square D Starkstrom GmbH. Circuit breaker, in particular an accessory or motor contactor. 4,691,978, 9-8-87, Cl. 439-620.000.

Lemmer, Helmut; and Risthaus, Josef, to Square D Starkstrom GmbH. Circuit-breaker. 4,713,636, 12-15-87, Cl. 335-35.000.

Lemmers, Eugene, to General Electric Company. Low ripple, high power factor a-c to d-c power supply. 4,654,774, 3-31-87, Cl. 363-48.000.

Lemmers, Eugene: *See*—

Hammer, Edward E.; Lemmers, Eugene; and Swanson, Dail L., 4,644,227, Cl. 315-96.000.

Hammer, Edward E.; and Lemmers, Eugene, 4,698,549, Cl. 313-490.000.

Lemmers, Robert E.; Safran, Frank; and Brussee, Warren T., to General Electric Company. Automated inspection system. 4,641,966, 2-10-87, Cl. 356-237.000.

Lemmo, Patrick V. Deflector skirt. 4,655,120, 4-7-87, Cl. 99-40.050.

Lemmon, Norman F., to Deere & Company. Fuel recovery system for dual tanks. 4,664,144, 5-12-87, Cl. 137-571.000.

Lemo M. Lehmacher & Sohn GmbH Maschinenfabrik: *See*—

Dreckmann, Karl; Schneider, Jakob; and Theuner, Hans-Werner, 4,695,346, Cl. 156-361.000.

Lehmacher, Hans, 4,662,864, Cl. 493-204.000.

Meyer, Armin, 4,688,676, Cl. 206-554.000.

Meyer, Armin, 4,690,280, Cl. 206-554.000.

LeMoine, George I., to Pitney Bowes Inc. Condemnation shield. 4,650,974, 3-17-87, Cl. 235-101.000.

Lemoine, Maurice G.; and Pasdera, Leonard A., to Ampex Corporation. Method of controlling apparatus for recording and/or reproducing on a record medium. 4,651,232, 3-17-87, Cl. 360-9.100.

Lemole, Gerald M. Irrigational hemostatic solution. 4,637,815, 1-20-87, Cl. 604-28.000.

Lemon, Chester L., and Kelly, Bill A., to Appleton, James K. Method and apparatus for controlling the distribution of coupons. 4,674,041, 6-16-87, Cl. 364-401.000.

Lemon, Thomas: *See*—

Jones, John R., 4,645,093, Cl. 221-93.000.

Lemon, William C. Container carrier. 4,645,072, 2-24-87, Cl. 206-199.000.

Lemone, Lou; Faletra, Salvatore; McDaniel, John R.; and Caldara, Steve, to Data General Corporation. Memory mapping system. 4,685,057, 8-4-87, Cl. 364-200.000.

Lemonier, Michel G.; and Petit, Maurice L. J., to U.S. Philips Corporation. Image detector operable in day or night modes. 4,687,922, 8-18-87, Cl. 250-213.0VT.

Lemonnier de Gouville, Jean B.; and Dane, Bernard, to Sourdillon Airindex. Flat type gas burner, more particularly for household appliances, adapted for using different gases. 4,690,636, 9-1-87, Cl. 431-354.000.

Lemonnier, Jean, to Millipore Corporation. Membrane device for sterility testing. 4,640,777, 2-3-87, Cl. 210-433.200.

Lemons, David H.; and Spector, George. Full body hydromassager having an eccentric weight rotor. 4,709,691, 12-1-87, Cl. 128-66.000.

Lemons, Thomas M.: *See*—

Matosian, Kenneth R.; Sterritt, Lanny W.; Stubbs, David M.; and Lemons, Thomas M., 4,668,869, Cl. 250-504.00R.

Le Mouel, Bernard; Le Bescont, Herve; and Le Meur, Jean-Paul, to Compagnie Industrielle Des Telecommunications Cit-Alcatel. Synchronous data transmission method and device implementing same. 4,682,334, 7-21-87, Cl. 371-55.000.

Le Mouellic, Georges; Brun, Jean-Paul, and Gidrol, Jean C., to Societe d'Applications Generales d'Electricite et de Mecanique Sagem. Reading and/or writing apparatus including a removable memory-containing cassette. 4,646,263, 2-24-87, Cl. 365-1.000.

Lemp, Mark D., to Colt Industries Inc. Vehicle interior cover panel means. 4,671,557, 6-9-87, Cl. 296-37.160.

Lempa, Bernard J., Jr. Herbicide applicator apparatus. 4,709,505, 12-1-87, Cl. 47-1.700.

Lempco Industries, Inc.: *See*—

O'Neil, Junior; and Plagens, Leonard D., 4,648,727, Cl. 384-49.000.

Lempennau, Wolfram: *See*—

Lehnert, Ralf; Tran-Gia, Phuoc; and Lempennau, Wolfram, 4,680,784, Cl. 379-11.000.

Lemper, Herbert, to Kabushiki Kaisha Kobe Seiko Sho. Continuous casting mold assembly. 4,660,615, 4-28-87, Cl. 164-418.000.

Lemper, Herbert, to Kabushiki Kaisha Kobe Seiko Sho. Starter bar apparatus in a continuous casting assembly. 4,660,616, 4-28-87, Cl. 164-426.000.

Lemper, Herbert, to Kabushiki Kaisha Kobe Seiko Sho. Mold-oscillating apparatus in a continuous casting assembly. 4,678,022, 7-7-87, Cl. 164-416.000.

Lemper, Herbert, to Kabushiki Kaisha Kobe Seiko Sho. Tundish car in a continuous casting assembly. 4,678,167, 7-7-87, Cl. 266-165.000.

Lemper, Herbert, to Kabushiki Kaisha Kobe Seiko Sho. Top roller apron in a continuous casting assembly. 4,687,046, 8-18-87, Cl. 164-442.000.

Lempert, Karoly; Hornyak, Gyula; Bartha, Ferenc; Doleschall, Gabor; Fetter, Jozsef; Nyitrai, Jozsef; Simig, Gyula; Zauer, Karoly; Huszthy, Peter; Feller, Antal; Petocz, Lujza; Szirt, Eniko; Grasser, Katalin; Berenyi, Edit; Orr, Zsuzsanna; and Pjeczka, Etelka, to Egis Gyogyszergyar. Iminothiazolidine derivatives. 4,665,083, 5-12-87, Cl. 514-370.000.

Lempio, Paul S. Golf club. 4,669,726, 6-2-87, Cl. 273-81.200.

Lempio, Paul S. Golf club including detachable golf ball retriever. 4,687,204, 8-18-87, Cl. 273-162.00E.

s, Peter, to Signode Corporation. Plastic bag chain. 4,654,878, 31-87, Cl. 383-37.000.

s, Peter; Ausnit, Steven; and Nocek, Robert S., to Minigrip, Inc. pper equipped bags and method of and means for manually filling d separating them. 4,665,552, 5-12-87, Cl. 383-37.000.

s, Peter: See—

Boeckmann, Hugo; Lems, Peter; and Van Erden, Donald L., 4,646,511, Cl. 53-551.000.

Figiel, Janusz; Tremper, Donald; and Lems, Peter, 4,683,017, Cl. 156-73.100.

stra, Pieter J.; Meijer, Henricus E. H.; and van Unen, Lambert H. , to Stamicarbon B.V. Process for the continuous preparation of omogeneous solutions of high molecular polymers. 4,668,717, -26-87, Cl. 523-322.000.

han, Patrick M.: See—

Braker, C. Jeffrey; Keefer, Keith D.; and Lenahan, Patrick M., 4,652,467, Cl. 427-246.000.

han, Terrence A.: See—

Glodis, Paul F., and Lenahan, Terrence A., 4,641,917, Cl. 350-96.330.

ard, Peter: See—

Beck, Ernst; Lenard, Peter; and Hutzel, Hans, 4,677,882, Cl. 76-77.000.

ards, Gerhard; and Stukenbrock, Karl-Heinz, to Uniroyal Englebert Textilcord S.A.; and Chemische Fabrik Stockhausen GmbH. Method f making flexible, fiber-covered, sheet-like textile article. 4,668,323, 5-26-87, Cl. 156-242.000.

art, Joseph M.: See—

Amstutz, Stanford R.; Eliscu, Mark; Lenart, Joseph M.; and Haselton, E. Fletcher, 4,710,916, Cl. 370-58.000.

Haselton, E. Fletcher; Amstutz, Stanford R.; and Lenart, Joseph M., 4,698,803, Cl. 370-60.000.

Haselton, E. Fletcher; Amstutz, Stanford A.; and Lenart, Joseph M., 4,703,478, Cl. 370-94.000.

nasson, Carl-Gustaf: See—

Hasselfot, Ake; Lenasson, Carl-Gustaf; and Nordhall, Lennart, 4,638,540, Cl. 29-168.000.

nchin, Julianne M.: See—

Zwiervan, Gary A.; Lacourse, Norman L.; and Lenchin, Julianne M., 4,695,475, Cl. 426-582.000.

ench, Lucien-Charles. Method and apparatus for insemination in vivo and in vitro. 4,701,161, 10-20-87, Cl. 604-55.000.

enderman, Gary L., to Nalco Chemical Company. Method of utilizing paraffin inhibitors. 4,693,312, 9-15-87, Cl. 166-279.000.

enders, Jean-Pierre: See—

Anton, Octavian; Crichton, Robert; and Lenders, Jean-Pierre, 4,683,203, Cl. 435-94.000.

enertz, John L.; Tessenske, Dennis J.; and Ferrari, Ricky J., to Western States Company. Railroad track trailer. 4,636,130, 1-13-87, Cl. 414-500.000.

enfeldt, Lars, to Z-Lyften Produktion AB. Torque-sensing clutch. 4,697,082, 9-18-87, Cl. 192-55.000.

Lenfers, Martin: See—

Auth, Werner; Lenfers, Martin; Locher, Johannes; Peter, Hans-J.; Pflug, Hannes; Friedbert, Michel; and Steiner, Josef, 4,658,772, Cl. 123-145.00A.

Leng, Svay; Saitoh, Hiroyuki; Inui, Toshiharu; Koizumi, Norihiko; Moriguchi, Haruhiko; Omori, Takashi; Kurata, Masami; and Katoh, Yasuo, to Fuji Xerox Co., Ltd. Color copier. 4,638,372, 1-20-87, Cl. 358-296.000.

Leng, Svay: See—

Ishikawa, Noriyoshi; Takahashi, Haruhiko; Funato, Hitoshi; Leng, Svay; Saitoh, Hiroyuki; Ohmori, Takashi; Kurata, Masami; and Katou, Yasuo, 4,661,703, Cl. 250-317.100.

Lenger, Sidney A., to Pilliod Cabinet Company, The. Adjustable table structure. 4,709,641, 12-1-87, Cl. 108-102.000.

Lengnick, Guenther F.; Sanders, Albert J., Jr.; and Swatos, William J., to Stauffer-Wacker Silicones Corporation. Method for inhibiting corrosion of metal surfaces. 4,671,933, 6-9-87, Cl. 422-9.000.

Lengsfeld, Karl; Link, Erich; and Erndt, Hans, to Frankl & Kirchner GmbH Co KG. Adjustable electromagnetic clutch brake. 4,703,841, 11-3-87, Cl. 192-12.0BA.

Lengsfeld, Karl; Link, Erich; Martin, Adolf; and Wittler, Hilmar, to Frankl & Kirchner GmbH & Co KG. Electromotive variable-speed and control drive particularly for use in industrial sewing machines. 4,709,794, 12-1-87, Cl. 192-18.00B.

Lengsfeld, Wolfgang: See—

Merger, Franz; Hutmacher, Hans-Martin; Hettinger, Peter; Voges, Dieter; and Lengsfeld, Wolfgang, 4,709,072, Cl. 558-450.000.

Lengyel, Jozsef: See—

Szuts, Tamas; Szentmiklosi, Peter; Lengyel, Jozsef; Hermecz, Istvan; Vasvari nee Debreczy, Lelle; Horvath, Agnes; Kereszturi, Geza; Kovacs, Gabor; Horvath, Gabor; and Marmarosi nee Kellner, Katalin, 4,670,440, Cl. 514-254.000.

Lengyel, Stephen P.; and Greenway, John M., to Kendall Company, The. Blister bandage. 4,671,266, 6-9-87, Cl. 128-156.000.

Lenhard, Martin: See—

Herczeg, Julius-Ludwig; Lenhard, Martin; and Fluckiger, Ernst, 4,680,198, Cl. 427-164.000.

Lenhardt, Karl. Process of manufacturing spacer frames for glass panes and method of removing dessicant from a corner portion. 4,660,271, 4-28-87, Cl. 29-527.400.

Lenhardt, Karl, to Saint-Gobain Vitrage. Apparatus for the production of multiple layer glass sheets with plastic seals. 4,696,256, 9-29-87, Cl. 118-680.000.

Lenhardt, Karl, to Lenhardt Maschinenbau GmbH. Dryer for drying washed glass plates. 4,702,017, 10-27-87, Cl. 34-107.000.

Lenhardt, Karl, to Lenhardt Maschinenbau GmbH. Apparatus for joining two panes of glass to form a fused space window pane. 4,708,762, 11-24-87, Cl. 156-556.000.

Lenhardt, Karl, to Saint-Gobain Vitrage. Preparation of a plastic for its extrusion particularly in the form of a gaged bead intended to be used as a seal and interlayer in multiple glazings. 4,714,425, 12-22-87, Cl. 425-461.000.

Lenhardt Maschinenbau GmbH: See—

Lenhardt, Karl, 4,702,017, Cl. 34-107.000.

Lenhardt, Karl, 4,708,762, Cl. 156-556.000.

Lenhart, Ronald A., to Precision Metal Fabricators, Inc. Single filer blow-back apparatus. 4,653,964, 3-31-87, Cl. 406-86.000.

Lenhart, Ronald A., to Precision Metal Fabricators, Inc. Method for handling container ends en masse. 4,655,677, 4-7-87, Cl. 414-786.000.

Lenhart, Ronald A., to Precision Metal Fabricators, Inc. Vacuum single filer. 4,669,604, 6-2-87, Cl. 198-453.000.

Lenius, Norbert W.: See—

Lamer, Gerald P.; Lenius, Norbert W.; and Stearn, Richard A., 4,705,180, Cl. 212-190.000.

Lenk, Erich; and Feth, Max, to Barmag Barmer Maschinenfabrik AG. Melt spinning apparatus. 4,645,444, 2-24-87, Cl. 425-192.00S.

Lenk, Erich, to Barmag AG. Melt spinning apparatus. 4,681,522, 7-21-87, Cl. 425-72.00S.

Lenk, Erich; and Feth, Max, to Barmag AG. Melt spinning apparatus. 4,696,633, 9-29-87, Cl. 425-192.00S.

Lenk, Erich; and Feth, Max, to Barmag AG. Melt spinning apparatus. 4,698,008, 10-6-87, Cl. 425-192.00S.

Lenk, Erich, to Barmag AG. Melt spinning apparatus. 4,704,077, 11-3-87, Cl. 425-131.100.

Lenk, Erich: See—

Burkhardt, Klaus; Gerhards, Klaus; Greb, Manfred; Keuth, Rainer; and Lenk, Erich, 4,691,947, Cl. 28-255.000.

Runkel, Walter; Lenk, Erich; and Bauer, Karl, 4,641,504, Cl. 68-5.00E.

Schippers, Heinz; and Lenk, Erich, 4,638,955, Cl. 242-18.0PW.

Lenke, Dieter: See—

Franke, Albrecht, deceased; Mueller, Claus D.; and Lenke, Dieter, 4,670,435, Cl. 514-239.000.

Rossy, Phillip A.; Thyes, Marco; Franke, Albrecht; Koenig, Horst; Lehmann, Hans Dieter; Gries, Josef; Friedrich, Ludwig; and Lenke, Dieter, 4,636,504, Cl. 514-252.000.

Lenkman, Thomas E., to Harold Lietz Enterprise, Inc. Wheelchair lockdown device. 4,671,713, 6-9-87, Cl. 410-7.000.

Lenney, William E., to Air Products and Chemicals, Inc. Pressure sensitive adhesives prepared by polymerization in the presence of ethoxylated acetylenic tertiary glycol. 4,694,056, 9-15-87, Cl. 526-202.000.

Lennon, Alton Y.: See—

Quintana, Max A., 4,667,087, Cl. 235-380.000.

Lennon, Patrick J., to Monsanto Company. Catalytic process for producing silahydrocarbons. 4,650,891, 3-17-87, Cl. 556-480.000.

Lennon, Patrick J., to Monsanto Company. Catalytic process for producing silahydrocarbons. 4,672,135, 6-9-87, Cl. 556-480.000.

Lennox Industries, Inc.: See—

Bellfuss, Robert C.; Lamer, David M.; Bammel, Stanley E.; Huang, Terry J.; and Banks, David M., 4,695,246, Cl. 431-31.000.

Lennstrom, Carl A.; and Claeson, Mats I., to Telefonaktiebolaget LM Ericsson. Call diverter function in an early care telephone system. 4,689,811, 8-25-87, Cl. 379-38.000.

Le Noane, Georges; Boscher, Daniel; and Lemarer, Rene. Process for coupling optical fiber in reception block and coupler. 4,666,541, 5-19-87, Cl. 156-158.000.

Lenoble, Bert L.; and Krehely, Richard M., to Allied Corporation. Cassette system having quick connect feature. 4,674,702, 6-23-87, Cl. 242-195.000.

Lenox Institute For Research, Inc.: See—

Krofta, Milos, 4,673,494, Cl. 210-202.000.

Lenox, Jerril C.; and Solis, Jesse. Headwear with built-in cooling means. 4,672,968, 6-16-87, Cl. 128-380.000.

Lenox, Ronald S.; Schwartz, Anne L.; and Hoyle, Charles E., to Armstrong World Industries, Inc. Mono-sulfonyl azide composition used to photolytically develop a colored image on a cellulosic material. 4,640,885, 2-3-87, Cl. 430-197.000.

Lense, Robert F., to Amerock Corporation. Power-operated window lock. 4,703,960, 11-3-87, Cl. 292-69.000.

Lenski, Ralph; and Quoffy, Harald, to Deere & Company. Clean grain sampler for a combine harvester. 4,663,978, 5-12-87, Cl. 73-863.520.

Lent, Arnold H.: See—

Yeung, Hong-Ning; Kao, Chuming; and Lent, Arnold H., 4,649,346, Cl. 324-309.000.

Lentfer, Arno; and Luthje, Holger, to U.S. Philips Corporation. Mask with magnesium diaphragm for X-ray lithography. 4,701,391, 10-20-87, Cl. 430-5.000.

Lentfer, Dierck, to Mallinckrodt Diagnostica (Germany) GmbH. Procedure for the irreversible binding of proteins onto polystyrene surfaces with retention of their biological activity, polystyrene surfaces obtained by this procedure, and their use. 4,654,299, 3-31-87, Cl. 435-7.000.

Lenthe, Manfred; Allenbach, Udo; Buttner, Gerhard; and Christmann, Karl-Friedrich, to Bayer Aktiengesellschaft. Process for the isolation of 2,2-dimethyl-7-hydroxy-coumaran. 4,647,676, 3-3-87, Cl. 549-462.000.

Lenthe, Manfred: *See—*
  Gunther, Andreas; Malone, James R.; Lenthe, Manfred; and Hohl, Hans-Walter, 4,683,308, Cl. 544-211.000.

Lents, Charles M.; and Swanson, Craig A., to Stainless Icetainer Company. Apparatus for storing and dispensing particulate ice. 4,676,405, 6-30-87, Cl. 222-108.000.

Lentz, Carl M.; Overton, James R.; and Cornell, David D., to Eastman Kodak Company. Carbonylation process for the production of aromatic dicarboxylic acids. 4,691,050, 9-1-87, Cl. 562-406.000.

Lentz, David J., to Warner-Lambert Company. Flash chamber. 4,654,031, 3-31-87, Cl. 604-168.000.

Lentz, David J.; and Khan, Mohammad A., to Warner-Lambert Company. Oxidized cellulose as a medical lubricant. 4,668,224, 5-26-87, Cl. 604-265.000.

Lentz, David J.: *See—*
  Bartholomew, Victor L.; and Lentz, David J., 4,650,473, Cl. 604-174.000.

Lentz, Frank R.: *See—*
  Blevins, Gerald G.; Johnson, Fred, Jr.; Lentz, Frank R.; and Root, John P., 4,641,407, Cl. 29-237.000.

Lentz, Gerhard: *See—*
  Bohm, August; Lentz, Gerhard; and Wilkens, Gunter, 4,693,761, Cl. 148-9.00R.

Lentz, M. Rigdon, to Anisa Medical, Inc. Method and system for removing immunosuppressive components from the blood of mammals. 4,708,713, 11-24-87, Cl. 604-5.000.

Lenz, August: *See—*
  Lenz, Bernhard; and Lenz, August, 4,696,433, Cl. 241-199.120.

Lenz, Bernhard; and Lenz, August. Breaking up device for use in straining tuns to obtain wort in the production of beer. 4,696,433, 9-29-87, Cl. 241-199.120.

Lenz, Franz: *See—*
  Hasenauer, Dieter; and Lenz, Franz, 4,656,102, Cl. 429-104.000.

Lenz, Friedhelm: *See—*
  Schippers, Heinz; and Lenz, Friedhelm, 4,659,027, Cl. 242-18.100.

Lenz, Hans-Joachim: *See—*
  Hunger, Klaus; Frolich, Heinrich; and Lenz, Hans-Joachim, 4,665,165, Cl. 534-746.000.

Lenz, Henry G.; Coffman, Leonard; and Beltran, Adrian M., to General Electric Company. Method for making a fluid cooled acyclic generator rotor. 4,679,314, 7-14-87, Cl. 29-598.000.

Lenz, Henry G.; Coffman, Leonard; and Beltran, Adrian M., to General Electric Company. Fluid cooled acyclic generator rotor having a copper conductor diffusion bonded to a magnetic steel core. 4,692,644, 9-8-87, Cl. 310-178.000.

Lenz, Henry G.: *See—*
  Shah, Manoj R.; and Lenz, Henry G., 4,712,033, Cl. 310-178.000.
  Shah, Manoj R.; Lenz, Henry G.; and Bird, William L., Jr., 4,716,328, Cl. 310-178.000.

Lenz, Herman N.; and Chen, Allen G., to Teledyne Industries, Inc. Turbine inlet nozzle with cooling means. 4,693,667, 9-15-87, Cl. 415-115.000.

Lenz, James E.; and Mitchell, Gordon L., to Honeywell Inc. High accuracy mapping of magnetic fields with a fiber optic interferometer. 4,634,977, 1-6-87, Cl. 324-244.000.

Lenz, Kurt: *See—*
  Angrick, Michael; Trautwein, Ullrich; and Lenz, Kurt, 4,656,053, Cl. 427-53.100.

Lenz, Michael: *See—*
  Peruth, Guenther; and Lenz, Michael, 4,648,016, Cl. 363-21.000.

Lenz, Uwe; and Ritter, Gunter, to Rheinische Braunkohlenwerke AG. Process for producing ferrous sulphate in granule form. 4,659,557, 4-21-87, Cl. 423-558.000.

Lenz, Werner; and Most, Manfred, to Suddeutsche Kuhlerfabrik Julius Fr Behr GmbH & Co. Cooler for a water cooled internal combustion engine. 4,678,026, 7-7-87, Cl. 165-67.000.

Lenz, Werner; Sander, Hans; and Moeller, Dieter, to BASF Aktiengesellschaft. Production of coatings. 4,687,813, 8-18-87, Cl. 525-131.000.

Lenz, Werner: *See—*
  Heil, Guenter; Lenz, Werner; and Kovacs, Jenoe, 4,666,783, Cl. 428-425.900.
  Lehner, August; Heil, Guenter; Kovacs, Jenoe; Balz, Werner; and Lenz, Werner, 4,666,781, Cl. 428-425.900.
  Lehner, August; Balz, Werner; Lenz, Werner; Kohl, Albert; and Heil, Guenter, 4,671,969, Cl. 427-48.000.
  Lehner, August; Heil, Guenter; Lenz, Werner; Balz, Werner; Kohl, Albert; and Schornick, Gunnar, 4,673,591, Cl. 427-48.000.

Lenz, William R.: *See—*
  Colleran, Stephen A.; and Lenz, William R., 4,693,532, Cl. 439-594.000.

Lenzing Aktiengesellschaft: *See—*
  Marini, Ingo G.; and Sustmann, Scarlet, 4,637,820, Cl. 8-129.000.
  Sustmann, Scarlet; and Marini, Ingo G., 4,634,439, Cl. 604-376.000.

Leo, Cosmo L.; and Stefanick, Stanley W., to Digital Equipment Corporation. Shock and vibration isolation mounting. 4,705,257, 11-10-87, Cl. 248-611.000.

Leo, Francis G.: *See—*
  Byal, Mark; Leo, Francis G.; and Schwenke, Marvin J., 4,670,834, Cl. 364-186.000.

Leo Pharmaceuticals: *See—*
  von Daehne, Welf, 4,672,114, Cl. 540-310.000.

Leo, Rolf; Meusel, Karl-Heinz; and Uttner, Alfred, to Messerschmitt-Bolkow-Blohm GmbH. Wheel set for rail vehicles. 4,696,506, 9-29-87, Cl. 295-38.000.

Leo Stahl AG: *See—*
  Stahl, Leo, 4,715,459, Cl. 180-6.480.

Leo, Vincent B.; Cyll, Kenneth M.; and Ide, Mason G., to GTE Products Corporation. PTC fuel heater for heating alcohol fuel. 4,713,524, 12-15-87, Cl. 219-307.000.

Leolli, Franco, to Modecor Italiana S.p.A. Sectional modular element display unit. 4,690,289, 9-1-87, Cl. 211-186.000.

Leon, Albert M., to Stauffer Chemical Company. Autothermal process for the production of carbon disulfide and hydrogen sulfide. 4,695,443, 9-22-87, Cl. 423-443.000.

Leon, Jean G.; Loevenbruck, Francois; and Troadec, Jean R. Package for preserving food by generating a modified gas atmosphere. 4,664,922, 5-12-87, Cl. 426-124.000.

Leonard, Albert A. Doorless, positive-spreading trawling apparatus. 4,697,372, 10-6-87, Cl. 43-9.000.

Leonard, Daniel F. Auxiliary dumping apparatus for vehicles. 4,681,371, 7-21-87, Cl. 298-1.00A.

Leonard, Daniel P.: *See—*
  Payn, Ward J.; Niemi, Onni W.; McDonald, John V.; Simon, Elizabeth A.; and Leonard, Daniel P., 4,658,122, Cl. 235-101.000.

Leonard, Donald R., to Eastman Kodak Company. Novel acrylic castings and process for the preparation thereof. 4,650,821, 3-17-87, Cl. 524-127.000.

Leonard, Emil T., to J. I. Case Company. Vibratory plow with blade having regressive longitudinal axis. 4,652,176, 3-24-87, Cl. 405-182.000.

Leonard, Gary L.; and Johnson, Roger N., to General Electric Company. Diaphragm pump. 4,634,351, 1-6-87, Cl. 417-395.000.

Leonard, Gary L.; and Correa, Sanjay M., to General Electric Company. Steam purge of a piston/cylinder gap in a diesel engine. 4,655,175, 4-7-87, Cl. 123-25.00C.

Leonard, Gary L., to General Electric Company. Clean air blow-by system for diesel engine. 4,660,383, 4-28-87, Cl. 60-605.000.

Leonard, George H., to GTech Corporation. Data reading apparatus. 4,659,073, 4-21-87, Cl. 271-3.000.

Leonard, George H., to Airpot Corporation. Torsion spring mounting structure. 4,670,940, 6-9-87, Cl. 16-308.000.

Leonard, George H., to Airpot Corporation. Socket construction for torsion member. 4,681,307, 7-21-87, Cl. 267-154.000.

Leonard, Gerard E., to R. J. Reynolds Tobacco Company. Filter cigarette having rotatable adjustment. 4,658,838, 4-21-87, Cl. 131-336.000.

Leonard, Gerard E.: *See—*
  Young, Harvey J.; and Leonard, Gerard E., 4,646,764, Cl. 131-370.000.

Leonard, Henri, to Micro-Mega. Dental drill. 4,634,378, 1-6-87, Cl. 433-102.000.

Leonard, James B. Collapsible mast assembly. 4,655,154, 4-7-87, Cl. 114-91.000.

Leonard, Jerome C.: *See—*
  Lucas, Alfred R.; and Leonard, Jerome C., 4,644,347, Cl. 340-825.040.

Leonard, John A.; and Plumb, Harry A., to General Electric Company. Method for automatic speed loop tune-up in a machine drive. 4,649,328, 3-10-87, Cl. 318-317.000.

Leonard, John J.: *See—*
  Jones, C. Andrew; Leonard, John J.; and Sofranko, John A., 4,665,260, Cl. 585-500.000.
  Withers, Howard P., Jr.; Jones, C. Andrew; Leonard, John J.; and Sofranko, John A., 4,634,800, Cl. 585-500.000.
  Withers, Howard P., Jr.; Jones, C. Andrew; Leonard, John J.; Sofranko, John A.; and Gaffney, Anne M., 4,670,619, Cl. 585-500.000.

Leonard, John S.: *See—*
  Baudro, Thomas O.; and Leonard, John S., 4,683,110, Cl. 376-261.000.
  Helm, John L.; and Leonard, John S., 4,683,111, Cl. 376-391.000.

Leonard, Mark G., to Hewlett-Packard Company. Optical positional encoder comprising immediately adjacent detectors. 4,691,101, 9-1-87, Cl. 250-231.0SE.

Leonard, Michel: *See—*
  Sciaky, Mario; Jablonski, Pierre; Marianne, Jean-Jacques; and Leonard, Michel, 4,675,969, Cl. 29-281.400.

Leonard, Nelson J.: *See—*
  Morin, John M., Jr.; and Leonard, Nelson J., 4,665,066, Cl. 514-206.000.

Leonard Olguin: *See—*
  Gore, Mack, Jr., 4,662,367, Cl. 128-202.280.

Leonard, Paul A. Cooling apparatus for a gas transmission system. 4,681,156, 7-21-87, Cl. 165-124.000.

Leonard, Raymond G.; and Harris, Stephen J., to Loctite (Ireland) Limited. Instant adhesive composition utilizing mixed functionality calixarenes as accelerators. 4,695,615, 9-22-87, Cl. 526-194.000.

Leonard, Robert C., to Jenkins Metal Corporation. Pneumatically controlled anti-balloon device. 4,685,285, 8-11-87, Cl. 57-356.000.

Leonard, Robert E.; and Huser, Robert E., to NCR Corporation. Bank check form. 4,667,985, 5-26-87, Cl. 283-58.000.

Leonard, Robert E.; and Lamansky, William H., to Kerr-McGee Chemical Corporation. Process for the preservation of wood products. 4,668,539, 5-26-87, Cl. 427-298.000.

Leonard, Robert E.; and Lamansky, William H., to Kerr-McGee Chemical Corporation. Process for treating wood products. 4,670,992, 6-9-87, Cl. 34-9.500.

Leonard, Ronald J., to Omnis Surgical Inc. Priming system for ultrafiltration unit. 4,670,152, 6-2-87, Cl. 210-651.000.

nard, Ronald J.; and Johnson, Kenneth M., to Baxter Travenol aboratories, Inc. Mass transfer device. 4,690,758, 9-1-87, Cl. 0-247.000.

nard, Ronald J., to Baxter Travenol Laboratories, Inc. Hollow fiber paration device manifold. 4,715,953, 12-29-87, Cl. 210-321.800.

nard, Russell J.: *See—*

Brinkman, Donald J., and Leonard, Russell J., 4,635,355, Cl. 29-747.000.

nard Storch Enterprises, Inc.: *See—*

Storch, Leonard; and Hotto, Robert, 4,642,624, Cl. 340-735.000.

nard, Warren: *See—*

Nelson, David; Biddison, William; Rubin, Laurence; Greene, Warner; Leonard, Warren; and Yarchoan, Robert, 4,707,443, Cl. 435-7.000.

nard, Willie B. Tractor and towed implement with elevation control ystem for implement including pressure responsive valve actuator. ,637,474, 1-20-87, Cl. 172-7.000.

onardi, Amedeo: *See—*

Nardi, Dante; Leonardi, Amedeo; and Bianchi, Giorgio, 4,634,712, Cl. 514-356.000.

Nardi, Dante; Leonardi, Amedeo; Motta, Gianni; and Cazzulani, Pietro, 4,675,319, Cl. 514-234.000.

Nardi, Dante; Leonardi, Amedeo; Graziani, Gabriele; and Bianchi, Giorgio, 4,705,797, Cl. 514-356.000.

onardi, David. Method and apparatus for immobilizing an eyelid. ,677,974, 7-7-87, Cl. 128-163.000.

onardi, Giovanni M.: *See—*

den Hollander, Willem; and Leonardi, Giovanni M., 4,701,793, Cl. 358-140.000.

onardi, Peter F., to Halo Optical Products, Inc. Sports frame with resilient pads. 4,688,272, 8-25-87, Cl. 2-431.000.

eonardo, Ignazio: *See—*

Coll, Gene P.; and Leonardo, Ignazio, 4,709,980, Cl. 350-96.200.

eonardo, John, to Cowtronics, Inc. Method and apparatus for detecting standing heat in cattle. 4,635,587, 1-13-87, Cl. 119-1.000.

onardson, Ronald B.: *See—*

Smith, Jeffrey T.; Frazier, David E.; and Leonardson, Ronald B., 4,675,820, Cl. 364-453.000.

eonberger, Frederick J.: *See—*

Kingston, Robert H.; and Leonberger, Frederick J., 4,696,533, Cl. 350-96.140.

eoncavallo, Richard A., to Nalge Company. Reusable filter unit with recoverable filter membrane. 4,678,576, 7-7-87, Cl. 210-433.200.

eoncavallo, Richard A.; Baird, Peter K.; Mehra, Ravinder C.; and Rajguru, Sharad, to Nalge Company. Plastic filter assembly. 4,689,147, 8-25-87, Cl. 210-232.000.

eone-Bay, Andrea, to Stauffer Chemical Company. Dehydroxylation of alpha-hydroxyketones. 4,647,702, 3-3-87, Cl. 568-315.000.

eone-Bay, Andrea, to Stauffer Chemical Company. Process for selective preparation of ratios of isomers formed on N-substitution of asymmetric imidazoles. 4,711,962, 12-8-87, Cl. 548-337.000.

eone, David A.; and Marks, Douglas C., to Westinghouse Electric Corp. Circuit breaker with arm latch for high interrupting capacity. 4,635,011, 1-6-87, Cl. 335-16.000.

eone, David A.; and Marks, Douglas C., to Westinghouse Electric Corp. Reverse loop circuit breaker with high impedance stationary conductor. 4,654,490, 3-31-87, Cl. 200-147.00R.

eone, David A.; and Marks, Douglas C., to Westinghouse Electric Corp. Circuit breaker with adjustable thermal mechanism. 4,704,593, 11-3-87, Cl. 337-82.000.

eone, David A.: *See—*

Grunert, Kurt A.; Walker, Roger E.; Paton, Charles R.; and Leone, David A., 4,639,564, Cl. 200-144.00R.

Grunert, Kurt A.; Walker, Roger E.; Paton, Charles R.; Leone, David A.; and Turner, David C., 4,650,940, Cl. 200-144.00R.

Maier, Alfred E.; Marks, Douglas C.; and Leone, David A., 4,654,491, Cl. 200-147.00R.

Maier, Alfred E.; Leone, David A.; and Ricci, Louis N., 4,713,637, Cl. 335-76.000.

Leone, Vincent D. Desilter apparatus including adaptor members for accommodating connection of cyclone separators of any diameter to manifold conduits having invariant diameters. 4,655,923, 4-7-87, Cl. 210-512.200.

Leonetti, Frank A.: *See—*

Leonetti, Fred L.; Leonetti, Richard L.; and Leonetti, Frank A., 4,693,496, Cl. 283-102.000.

Leonetti, Fred L.; Leonetti, Richard L.; and Leonetti, Frank A. Elastomeric coating removal process. 4,693,496, 9-15-87, Cl. 283-102.000.

Leonetti, Richard L.: *See—*

Leonetti, Fred L.; Leonetti, Richard L.; and Leonetti, Frank A., 4,693,496, Cl. 283-102.000.

Leong, Douglas H., to Hughes Aircraft Company. Semiconductor on insulator edge doping process using an expanded mask. 4,649,626, 3-17-87, Cl. 29-571.000.

Leonhard, Bernhard: *See—*

Lodige, Rudolf; Leonhard, Bernhard; and Stille, Volker, 4,681,211, Cl. 198-789.000.

Leonhard, Rolf; and Dettling, Hubert, to Robert Bosch GmbH. Apparatus for the removal of combustible solid particles from the exhaust gases of internal combustion engines. 4,672,808, 6-16-87, Cl. 60-286.000.

Leonhard, Rolf: *See—*

Dettling, Hubert; Haag, Gottlob; Hagele, Karl-Heinz; Leonhard, Rolf; and Polach, Wilhelm, 4,693,078, Cl. 60-295.000.

Leonhardt, Mark A.: *See—*

Benner, Harold T., Jr.; Leonhardt, Mark A.; and Zdinak, Matthew J., 4,702,289, Cl. 141-125.000.

Leonhardy GmbH: *See—*

Rolf, Helmut, 4,698,026, Cl. 439-82.000.

Leoni, Gianni: *See—*

Andersen, Erik; and Leoni, Gianni, 4,706,670, Cl. 128-344.000.

Leonov, Ivan P.: *See—*

Gurkov, Konstantin S.; Kostylev, Alexandr D.; Tkachenko, Gennady A.; Leonov, Ivan P.; and Klimashko, Vladimir V., 4,637,476, Cl. 173-136.000.

Leonov, Mark, to Intel Corporation. Centering/positioning apparatus for wafer and vacuum chuck. 4,659,094, 4-21-87, Cl. 279-1.00L.

Leonov, Mark, to Intel Corporation. Semiconductor wafer guides. 4,676,699, 6-30-87, Cl. 406-86.000.

Leonov, Mark, to Intel Corporation. Centering/positioning apparatus for wafer and vacuum chuck. 4,682,396, 7-28-87, Cl. 29-271.000.

Leon's Mfg. Co. Ltd.: *See—*

Malinowski, Leon; and Lange, Kenneth, 4,683,958, Cl. 172-705.000.

Malinowski, Leon A.; and Lange, Kenneth J., 4,699,221, Cl. 172-705.000.

Leopold, Howard S., to Eagle Electric Mfg. Co., Inc. Duplex electrical receptacle with replaceable surge suppressor. 4,688,135, 8-18-87, Cl. 361-118.000.

Leopold Kostal GmbH & Co., KG: *See—*

Menche, Edgar, 4,636,597, Cl. 200-68.100.

Leopold, Kurt E.: *See—*

Taylor, Roderick S.; and Leopold, Kurt E., 4,679,203, Cl. 372-86.000.

Leopoldi, Norbert, to Cloverline Incorporated, The. Pill cutter. 4,697,344, 10-6-87, Cl. 30-124.000.

Leopoldi, Norbert: *See—*

Heinrich, William P.; and Leopoldi, Norbert, 4,694,581, Cl. 33-169.00R.

Leorat, Francois, to Regie Nationale des Usines Renault. Control of the supply pressure of a hydraulic actuator. 4,633,985, 1-6-87, Cl. 192-0.055.

Leorat, Francois; Coutant, Patrick; and Aubert, Paul, to Regie Nationale des Usines Renault. Two-level pressure control device. 4,664,137, 5-12-87, Cl. 137-118.000.

Leorat, Francois; Coutant, Patrick; and Aubert, Paul, to Regie Nationale des Usines Renault. Two-range pressure control system. 4,679,988, 7-14-87, Cl. 417-218.000.

Leorat, Francois; Coutant, Patrick; and Aubert, Paul, to Regie Nationale des Usines Renault. Control system for a four-speed automatic transmission. 4,691,597, 9-8-87, Cl. 74-869.000.

LePage, James: *See—*

Moffatt, Michael; LePage, James; and Englar, Gerald, 4,641,918, Cl. 350-125.000.

Le Page, Jean-Francois; Billon, Alain; Morel, Frederic; Renard, Pierre; Biedermann, Jean-Michel; Laborde, Michel; and Bousquet, Jacques, to Institut Francais du Petrole. Process for deasphalting a hydrocarbon charge containing asphaltenes. 4,715,946, 12-29-87, Cl. 208-45.000.

Le Page, Jean-Francois: *See—*

Plumail, Jean-Claude; Le Page, Jean-Francois; and Giuliani, Pierre, 4,655,905, Cl. 208-216.00R.

Quang, Dang V.; Pradel, Claude; Euzen, Jean P.; and Le Page, Jean-Francois, 4,687,656, Cl. 423-361.000.

Lepage, Joel: *See—*

Bessonneau, Guy; Carnez, Bernard; Derewonko, Henry; and Lepage, Joel, 4,698,661, Cl. 357-74.000.

Lepage, Michel: *See—*

Bordreuil, Jacques; Lepage, Michel; and Bordat, Andre, 4,697,533, Cl. 114-44.000.

Lepailler, Patrick S.: *See—*

Nozick, Jacques E.; and Lepailler, Patrick S., 4,689,493, Cl. 307-147.000.

Lepand, Heinz; Huser, Margrit; Biniasz, Franz-Josef; and Fuchs, Axel, to Hoesch Aktiengesellschaft. Dredger teeth. 4,710,244, 12-1-87, Cl. 148-333.000.

Lepant, Marcel: *See—*

Laruelle, Claude; Lepant, Marcel; and Raynier, Bernard, 4,661,512, Cl. 514-423.000.

Le Pargneux, Jacques; Bonnamour, Michel; and Filary, Gerard, to Commissariat a l'Energie Atomique; and Framatome & Cie. Tool for producing a nuclear reactor fuel assembly. 4,653,180, 3-31-87, Cl. 29-723.000.

Le Parquier, Guy: *See—*

Drabowitch, Serge; Baril, Michel; and Le Parquier, Guy, 4,713,663, Cl. 342-70.000.

Lepelaars, Patricius W. M.: *See—*

Postma, Pieter; and Lepelaars, Patricius W. M., 4,704,562, Cl. 315-248.000.

Le Perchec, Pierre: *See—*

Brunel, Sylvain; Germanaud, Laurent; Le Perchec, Pierre; and Sillion, Bernard, 4,704,229, Cl. 252-352.000.

Lepere, Guy; Younes, Rolland; and Ramirez, Cristobal M., to Thomson-CSF. Receiver for a pulsed Doppler radar system. 4,635,061, 1-6-87, Cl. 342-195.000.

Lepert, Andre: *See—*

Bossaert, Bernard; Lepert, Andre; Lechat, Jacques; Hughes, Vincent L.; and Yap, Raymond C. C., 4,650,829, Cl. 525-99.000.

Luvinh, Quoc; Lechat, Jacques; Evans, Morris L.; and Lepert, Andre, 4,636,555, Cl. 526-290.000.

Lepert, Claude, to Etablissements Pompes Guinard. Process and apparatus for circulating fluids by pumping. 4,712,984, 12-15-87, Cl. 417-391.000.

Le Pesant, Jean-Pierre, to Thomson-CSF. Indicator device with electric control of displacement of a fluid. 4,636,785, 1-13-87, Cl. 340-753.000.

Le Pesant, Jean-Pierre; Hareng, Michel; Mourey, Bruno; and Perbet, Jean-Noel, to Thomson-CSF. Optical modulator. 4,701,021, 10-20-87, Cl. 350-267.000.

Le Pesant, Jean Pierre: *See*—
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  Carlson, Steven J.; Donald, William W.; and Lepine, James J., 4,685,481, Cl. 134-155.000.

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  Lavoie, Fernand; and Lepine, Yves, 4,707,861, Cl. 2-16.000.

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LePoire, Robert A. Adjustable jig. 4,679,781, 7-14-87, Cl. 269-45.000.

Le Poittevin, Yves M. J. Folding house transportable in the form of a stackable container. 4,635,412, 1-13-87, Cl. 52-79.500.

Le Poole, Jan B.; and Dekkers, Nicolaas H., to U.S. Philips Corporation. Microscope for non-differentiated phase image formation. 4,691,103, 9-1-87, Cl. 250-311.000.

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Leppanen, Jarmo, to Oy Tampella Ab. Apparatus for storing a concrete feeding hose in a rock bolting device. 4,708,532, 11-24-87, Cl. 405-303.000.

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Leppek, William W., to Huffy Corporation. Antitheft bicycle handlebar bag. 4,637,534, 1-20-87, Cl. 224-36.000.

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  Pischinger, Franz; and Lepperhoff, Gerhard, 4,634,459, Cl. 55-418.000.
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Leppert, James B. Integrated circuit sockets. 4,695,107, 9-22-87, Cl. 439-83.000.

Leprevost, Leonardo. Closure appliance for use in connection with surgical ostomy. 4,693,236, 9-15-87, Cl. 128-1.00R.

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  Koeneke, Conrad J.; Lepselter, Martin P.; and Lynch, William T., 4,665,414, Cl. 357-15.000.

Lepson, Robert E., to Bethlehem Steel Corporation. Flexible gear coupling inspection port. 4,650,441, 3-17-87, Cl. 464-16.000.

Lerat, Bernard, to Commissariat a l'Energie Atomique. Optical surface proximity measuring device and its application to the plotting of the profile of a surface. 4,639,140, 1-27-87, Cl. 356-376.000.

Le Rat, Guy; and Vivet, Stephane, to Framatome & Cie. Process for the monitoring of leaks in the primary circuit of a pressurized water nuclear reactor. 4,650,635, 3-17-87, Cl. 376-250.000.

Lerch, Allen: *See*—
  Joseph, James R.; Wesdock, James F.; Lerch, Allen; Chollock, Ronald; Waugaman, John; Lindberg, Glenn; Wymer, James R.; and Brennen, Brad, 4,655,349, Cl. 209-524.000.

Lerch, Reinhard, to Siemens Aktiengesellschaft. Ultrasonic transducer system. 4,635,484, 1-13-87, Cl. 73-628.000.

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  Breimesser, Fritz; Grabner, Gunther; and Lerch, Reinhard, 4,672,591, Cl. 367-152.000.

Lerch, Ulrich, to Hoechst Aktiengesellschaft. Method of resolving bicyclic imino-α-carboxylic acid ester racemates. 4,659,838, 4-21-87, Cl. 548-452.000.

Lerchenberger, August: *See*—
  Grabmaier, Christa; Kotschy, Josef; and Lerchenberger, Augus 4,643,797, Cl. 156-603.000.

Lerk, Coenraad F.: *See*—
  De Haan, Pieter; Lerk, Coenraad F.; and Schoonen, Adelbert J. M., 4,708,874, Cl. 424-470.000.

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Lerman, Max. Prosthetic stockings. 4,635,626, 1-13-87, Cl. 128-165.00

Lerman, Max. Circular hinge for orthotic braces. 4,665,904, 5-19-87, Cl. 128-80.00H.

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  Proctor, John D.; Towns, Edward J.; and Brown, Edward M., 4,694,968, Cl. 215-224.000.

Lerner, Bernard; and Liebhart, Dana, to Automated Packaging Systems, Inc. Packaging apparatus and method. 4,651,506, 3-24-87, Cl. 53-459.000.

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Lerner, Bernard: *See*—
  Lerner, Hershey; and Lerner, Bernard, 4,680,205, Cl. 428-29.00

Lerner, Christopher; and Kressin, Brian S. Toy ball with tail. 4,657,25 4-14-87, Cl. 273-58.00A.

Lerner, David R. Fluorescent light mounting system. 4,646,2 2-24-87, Cl. 361-377.000.

Lerner, Hershey; and Lerner, Bernard, to Automated Packaging Systems, Inc. Continuous web registration. 4,680,205, 7-14-87, Cl. 428-29.000.

Lerner, Joseph S.; and Krukas, David, to Loveshaw Corporation, The. Apparatus for taping cartons. 4,640,731, 2-3-87, Cl. 156-355.000.

Lerner, Lawrence; and Diskin, Stephen P., to Mega/ERG, Incorporated. Portable adjustable acoustic absorber. 4,682,670, 7-28-87, Cl. 181-287.000.

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Lerner, Michael; Bernstein, Michael; and Selame, Robert, to Safety 1st Inc. Child-proof outlet cover. 4,671,587, 6-9-87, Cl. 439-142.000.

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Lerner, Michael A.: *See*—
  Gray, James P.; Hansen, Peter J.; Lerner, Michael A.; and Pozefsky, Mark, 4,688,035, Cl. 340-825.520.

Lerner, Moisey. Bookkeeping and accounting systems. 4,642,76 2-10-87, Cl. 364-406.000.

Lerner, Reuben. Combined head rest, sun shade and bag. 4,639,95 2-3-87, Cl. 5-418.000.

Lerner, Richard A.: *See*—
  Altman, Amnon; Theofilopoulos, Argyrios N.; Lerner, Richard A.; and Dixon, Frank J., 4,636,463, Cl. 435-7.000.
  Tramontano, Alfonso; and Lerner, Richard A., 4,659,567, Cl. 424-85.000.

Lerner, Stanley, to Color Communications, Inc. Method and composition for repairing minor surface damage to coated surfaces. 4,661,18 4-28-87, Cl. 156-94.000.

Lerner, Steven L.: *See*—
  Maclean, Donald L.; Krishnamurthy, Ramachandran; and Lerner, Steven L., 4,687,498, Cl. 62-17.000.
  MacLean, Donald L.; Krishnamurthy, Ramachandran; and Lerner, Steven L., 4,689,062, Cl. 62-18.000.

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Leroux, Alain; Fourtet, Jean P.; Hennard, Jean; and Trouillet, Andre, to Compagnie des Transmissions Mecaniques Sedis; Generale de Transport et d'Industrie; and Societe Auxiliaire de Manutention Acceleree de Denrees Alimentaires & Carrosserie Trouillet. Automatic device for loading the total volume of a transport vehicle. 4,642,018, 2-10-87, Cl. 414-502.000.

Leroux, Alain A. A., to S.A.R.L. "Chicoree Leroux". Chicory base drink and method of preparing same. 4,671,962, 6-9-87, Cl. 426-51.000.

LeRoux, Donald F.; and Stottlemyer, Quayton R., to Du Pont de Nemours, E. I., and Company. Method and apparatus for air jet assisted film unloading from x-ray cassettes. 4,692,083, 9-8-87, Cl. 414-411.000.

Le Roux, Donald F.: *See*—
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Leroux, Francis; and Jaccaud, Michel, to Atochem. Process for the preparation of certain organic trihalomethyl derivatives. 4,654,128, 3-31-87, Cl. 204-59.00F.

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altman, John H.; Stewart, Wesley J.; and Leroux, Gerald F.,
4,679,543, Cl. 126-25.00R.
, Hugues, to Roussel Uclaf. Apparatus and process for the
ering of predetermined quantities of at least one product.
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ugier, Claude; Leroux, Michel; Normant, Jean F.; and Alexakis,
Alexandre, 4,652,692, Cl. 585-600.000.
ux, Patrick, to Thomson-CGR. Process for the modulation of the
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, Andre; and Flamme, Jean M., to Robert Bosch GmbH. Wiping
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Chaffy, Joseph; Langon, Bernard; and Leroy, Michel, 4,713,161,
Cl. 204-243.00M.
oy, Timothy. Illuminated fishing lure with electrically conductive
elets providing means to recharge the cell. 4,669,213, 6-2-87, Cl.
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4,677,988, Cl. 128-736.000.
Rochas, Jean-Francois; Lapoulle, Bertrand; Leroy, Yves;
Mamouni, Ahmed; and Van de Velde, Jean-Claude, 4,650,345,
Cl. 374-9.000.
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DeKezel, James A.; and Lerschen, James R., 4,691,463, Cl.
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Dieter, to U.S. Philips Corporation. Heating device for an atomic
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Jurgen, 4,685,946, Cl. 65-17.000.
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Broadcast program identification method and apparatus. 4,677,466,
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Fort, Jacques, 4,697,837, Cl. 294-88.000.
s Cables de Lyon: See—
Allemand, Didier; Degois, Bernard; and Dubar, Thierry, 4,671,611,
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Alloin, Michel; and Flamand, Charles, 4,647,712, Cl. 174-15.0WF.
Bonicel, Jean-Pierre, 4,701,014, Cl. 350-96.200.
Delobel, Gerard; and Paulin, Daniel, 4,663,928, Cl. 57-264.000.
Girardon, Noel; and Delbar, Jack, 4,663,926, Cl. 57-6.000.
Hourtane, Jean-Luc; and Girard, Christian, 4,689,713, Cl.
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Mignien, Georges; and Fasquel, Didier, 4,664,471, Cl. 350-96.210.
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Drapeau, Remi, 4,635,424, Cl. 52-480.000.
s Epiciers Unis Metro-Richelieu Inc.: See—
Dagenais, Georges; Michaud, Ghislain; and Presseau, Michel,
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Ross, Cyrus A.; and Thurow, Eberhard, 4,685,375, Cl. 86-20.150.
Ross, Cyrus A.; and Thurow, Eberhard, 4,693,763, Cl. 149-8.000.
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Doyon, Andrea; Matte, Denis; and Brosseau, Jacques, 4,676,038,
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Daigle, Clement; and Gonthier, Emile, 4,693,482, Cl. 277-207.00A.
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Kerdiles, Jean P.; and Marlot, Roger, 4,685,626, Cl. 241-74.000.
es Maisons Quebco Inc.: See—
Julien, Romeo, Jr., 4,675,942, Cl. 16-384.000.
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Transportable hot fat container. 4,635,950, 1-13-87, Cl. 280-47.260.
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control bar drive device, with reduced heat losses. 4,696,783, 9-29-87,
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Balassa, Leslie L., 4,656,137, Cl. 435-267.000.
Lesch, Hans, to Otto Hansel GmbH. Method for wrapping essentially flat products of the luxury-item or foodstuffs industry, especially squares or bars of chocolate, in packaging foil. 4,670,279, 6-2-87, Cl. 426-410.000.
Lescha Maschinenfabrik GmbH: *See*—
Schmid, Dieter, 4,640,465, Cl. 241-37.500.
Leschinger, Matt, to Reliance Comm/Tec Corporation. Flood cover assembly for pedestal closures and method of installing same. 4,661,651, 4-28-87, Cl. 174-38.000.
Leschonski, Kurt; and Rothele, Stephan. Method for producing a gas-solid two phase flow jet having a constant mass or volume flow rate and predetermined velocity. 4,660,986, 4-28-87, Cl. 366-154.000.
Lescow, Paul J.; and Scheffler, Charles E., to United States of America, Army. Fire suppression test apparatus. 4,693,320, 9-15-87, Cl. 169-61.000.
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Rollot, Pierre; Fierrat, Gerard; and Le Scour, Claude, 4,669,708, Cl. 266-193.000.
Lescure, Alain: *See*—
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Lesea, Ronald A., to XO Industries, Inc. Power factor correcting network. 4,672,522, 6-9-87, Cl. 363-48.000.
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Fournes, Jean-Paul; Lesgourgues, Jacques; and Martinou, Robert, 4,655,383, Cl. 228-119.000.
Lesh, James R., to United States of America, National Aeronautics and Space Administration. Means for phase locking the outputs of a surface emitting laser diode array. 4,677,629, 6-30-87, Cl. 372-18.000.
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Balazs, Endre A.; Leshchiner, Adolf; Leshchiner, Adelya; and Band, Philip, 4,713,448, Cl. 536-55.100.
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Balazs, Endre A.; Leshchiner, Adolf; Leshchiner, Adelya; and Band, Philip, 4,713,448, Cl. 536-55.100.
Lesher, George Y.; and Singh, Baldev, to Sterling Drug Inc. 2-[2-(di-lower-alkylamino)-1-propenyl]-6-methoxy-3-pyridinecarbonitriles, intermediates for cardiotonic agents. 4,634,772, 1-6-87, Cl. 546-288.000.
Lesher, George Y.; and Singh, Baldev, to Sterling Drug Inc. Cardiotonic 5-(heterylcarbonyl)-pyridones. 4,650,806, 3-17-87, Cl. 514-335.000.
Lesher, George Y.; and Singh, Baldev, to Sterling Drug Inc. 1,6-naphthyridine-2(1H)-ones and their use as cardiotonic agents. 4,657,915, 4-14-87, Cl. 514-300.000.
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Lesher, George Y.: *See*—
Daum, Sol J.; and Lesher, George Y., 4,698,350, Cl. 514-312.000.
Leshko, Roman W., to Zenith Electronics Corporation. Drive adjustment control for video output stage. 4,675,726, 6-23-87, Cl. 358-34.000.
Leshner, Ervin: *See*—
Avni, Yoav; and Leshner, Ervin, 4,670,921, Cl. 5-82.00R.
Leshuk, Daniel J.: *See*—
Siegal, Burton L.; and Leshuk, Daniel J., 4,708,260, Cl. 220-465.000.
Lesiak, P. Dieter: *See*—
Tischer, Kurt M.; Schlipf, Michael; Lesiak, P. Dieter; and Wengert, Rolf, 4,708,678, Cl. 445-24.000.
Lesikar, Johnie N., to Roper Corporation. Cotter ring locking device. 4,699,553, 10-13-87, Cl. 411-353.000.
Lesinski, S. George, to Oto Enterprises, Inc. Prostheses for ossicular reconstruction. 4,655,776, 4-7-87, Cl. 623-10.000.
Lesko, Charles J.: *See*—
Asher, Ron E.; and Lesko, Charles J., 4,703,521, Cl. 2-69.000.
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Kolbe, William F.; and Leskovar, Branko, 4,703,273, Cl. 324-314.000.
Lesley, Bascum G., to Milliken Research Corporation. Warp knitting machine. 4,674,302, 6-23-87, Cl. 66-214.000.
Lesley, Bascum G., to Milliken Research Corporation. Warp knitting machine. 4,698,986, 10-13-87, Cl. 66-207.000.
Leslie Company: *See*—
Muller, John T., 4,648,553, Cl. 236-80.00R.
Leslie, Elmer N.; Treadwell, Stephen S., III; DiFloria, Thomas J.; Propst, Larry D.; Kushmaul, Richard T.; Abney, Paul A.; Stevenson,

Kenneth; and Thomaston, C. Kenneth, to Microdynamics, Inc. Compact plotter for generation of accurate plotted images of long length. 4,686,540, 8-11-87, Cl. 346-33.00R.

Leslie, George F., Jr.; and MacKay, Kent W., to Variable Speech Control Company ("VSC"), The. Method and apparatus for pitch controlled voice signal processing. 4,700,391, 10-13-87, Cl. 381-35.000.

Leslie Hartridge Limited: *See*—

Bussey, Stephen; Cockburn, Barry; and Heath, Alastair E. F., 4,714,998, Cl. 364-431.010.

Downham, David, 4,694,671, Cl. 72-26.000.

Morris, Norman, 4,657,429, Cl. 403-362.000.

Shorrock, Peter, 4,651,404, Cl. 29-563.000.

Leslie, James B., to Rodime PLC. Servo positioning system for disk drive system. 4,682,253, 7-21-87, Cl. 360-77.000.

Leslie, James E.: *See*—

Berg, Harvey F.; Peterson, Lyle; Leslie, James E.; and Doan, Phong, 4,650,469, Cl. 604-131.000.

Leslie, Stewart T.; Rhodes, Alan; Boroda, Cyril; and Halpern, Alfred, to Euroceltique, S.A. Preparation for percutaneous administration. 4,654,209, 3-31-87, Cl. 424-80.000.

Lesmeister, Stephen C.: *See*—

Gerdes, Keith W.; Corts, Douglas E.; Jenkins, Thomas E.; Lesmeister, Stephen C.; and Welle, Louis A., Sr., 4,644,698, Cl. 49-478.000.

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Blaskovits, Pavol; Lesnak, Stefan; Martisik, Alojz; Zajac, Jan; Slavkovsky, Jan; Turiansky, Ladislav; and Levius, Rudolf, 4,707,581, Cl. 219-73.110.

Lesperance, Delos P.: *See*—

Voss, Thomas C.; Lesperance, Delos P.; and Lindeman, Myron F., 4,699,304, Cl. 226-129.000.

L'Esperance, Francis A., to LRI L.P. Method and apparatus for analysis and correction of abnormal refractive errors of the eye. 4,669,466, 6-2-87, Cl. 128-303.100.

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Lespinasse, Patrick: *See*—

Maures, Michel; Pasdeloup, Jacques; and Lespinasse, Patrick, 4,705,655, Cl. 264-3.400.

Lessar, Joseph F.: *See*—

Kraska, Robert E.; Wilary, Frank J.; and Lessar, Joseph F., 4,678,868, Cl. 174-152.0GM.

Lessard, Philip A.; Bartlett, Allen J.; and Peterson, John F., to Helix Technology Corporation. Temperature control of cryogenic systems. 4,679,401, 7-14-87, Cl. 62-55.500.

Lessard, Philip A.; and Smith, Marshall J., to Helix Technology Corporation. High pressure stepped clearance seal valve in a cryogenic refrigeration system. 4,708,165, 11-24-87, Cl. 137-509.000.

Lessard, William W.: *See*—

Levene, Martin M.; and Lessard, William W., 4,672,870, Cl. 83-19.000.

Levene, Martin M.; and Lessard, William W., 4,694,719, Cl. 83-451.000.

Lesscher, Bernardus A.: *See*—

Hamilton, Edward H.; Onstenk, Ralph M.; and Lesscher, Bernardus A., 4,674,650, Cl. 220-319.000.

Lessel, Guy: *See*—

Bach, Norbert; Economopoulos, Marios; Gredt, Marc; Lessel, Guy; and Schummer, Arthur, 4,704,166, Cl. 148-12.00B.

Lesser, Bertram: *See*—

Schwartz, Larry A.; and Lesser, Bertram, 4,674,799, Cl. 297-445.000.

Lessi, Jacques, to Institut Francais du Petrole. Process for hydraulically fracturing a geological formation along a predetermined direction. 4,683,950, 8-4-87, Cl. 166-271.000.

Lessig, William R., III; Wheeler, Dale K.; Bailey, R. Roby, Jr.; and Smith, Stephen W., to Black & Decker Inc. Variable speed trigger switch. 4,649,245, 3-10-87, Cl. 200-157.000.

Lessway, Richard J., to Arobotech Systems, Inc. I.D. or O.D. parallel gripper. 4,647,097, 3-3-87, Cl. 294-88.000.

Lessway, Richard J., to Arobotech Systems, Inc. Parallel gripper with roller supported gripper arms. 4,647,100, 3-3-87, Cl. 294-119.100.

Lessway, Richard J., to Arobotech Systems, Inc. Automatic centering and gripper apparatus. 4,650,237, 3-17-87, Cl. 294-119.100.

Lestelle, Dominique, to Commissariat a l'Energie Atomique. Pickup for measuring forces and torques and application of such a pickup to a follower and a gripper. 4,706,506, 11-17-87, Cl. 73-862.040.

Lester, Eddie D.: *See*—

Troutman, Paul H.; Lester, Eddie D.; and Sonderman, William G., 4,663,601, Cl. 335-207.000.

Lester, George R.; and Brennan, John F., to UOP Inc. Pollution control catalyst. 4,663,300, 5-5-87, Cl. 502-66.000.

Lester, George R.; Gonczy, Stephen T.; Welsh, Lawrence B.; and Stranford, Gerald T., to Allied Corporation. Preparation of silicon nitride powder. 4,701,316, 10-20-87, Cl. 423-344.000.

Lester, James E. Brake drum cleaner. 4,670,062, 6-2-87, Cl. 134-21.000.

Lester, James N., to GTE Products Corporation. High intensity discharge lamp starting and operating apparatus. 4,678,968, 7-7-87, Cl. 315-290.000.

Lester, James N.: *See*—

Byszewski, Wojciech W.; Fallier, Charles N., Jr.; and Lester, James N., 4,713,587, Cl. 315-289.000.

Fallier, Charles N., Jr.; and Lester, James N., 4,680,509, Cl. 315-290.000.

Lester, Joseph O.: *See*—

Richmond, Carl T.; and Lester, Joseph O., 4,682,174, C 342-160.000.

Lester, Lance. Collapsible blind for semi-circular arched window. 4,699,195, 10-13-87, Cl. 160-134.000.

Lester, Leslie J.: *See*—

Stiff, Rodney A.; Baker, Malcolm J.; and Lester, Leslie J., 4,677,813, Cl. 56-13.900.

Lester, Michael F.; and Brooks, Alan, to National Coal Board. Meth of an apparatus for monitoring mechanical equipment's operationa condition. 4,651,560, 3-24-87, Cl. 73-64.000.

Lester, Samuel R., to Babcock & Wilcox Company, The. High f quency ultrasonic technique for measuring oxide scale on the inn surface of boiler tubes. 4,669,310, 6-2-87, Cl. 73-597.000.

Lester, Theodore V.; and Bafaro, Michael P., to Motorola, Inc. Sca ning CRT display system with linearity compensation. 4,652,7 3-24-87, Cl. 315-371.000.

Lester, Theodore V.: *See*—

Bafaro, Michael P.; and Lester, Theodore V., 4,675,740, C 358-243.000.

Guerin, Thomas R.; and Lester, Theodore V., 4,649,325, C 315-383.000.

Lester, William M.: *See*—

Towns, Edward J.; Brown, Edward M.; and Lester, William M., 4,673,096, Cl. 215-230.000.

Towns, Edward J.; Brown, Edward M.; and Lester, William M., 4,674,642, Cl. 215-230.000.

Lesterlin, Dominique: *See*—

Baratte, Herve; Lesterlin, Dominique; and Carenco, Ala 4,652,078, Cl. 350-96.140.

Les Viet, Toai, to Nestec S.A. Process and apparatus for microwa heating foods. 4,659,890, 4-21-87, Cl. 219-10.55M.

LeTarte, Walter G. Stock feeding apparatus. 4,660,449, 4-28-87, C 83-261.000.

L'Etat Francais: *See*—

Camborde, Jean-Marc; Schirlin, Marcel; and Perrot, Jean-Clau 4,654,862, Cl. 375-10.000.

Foggia, Albert A.; and Sabonnadiere, Jean Claude, 4,634,889, C 307-104.000.

Gain, Robert; Simon, Jacques; Pasturel, Andre; and Roger, Ma 4,708,836, Cl. 264-40.100.

Noirel, Yves M.; and Vardo, Jean-Claude, 4,700,184, C 340-825.500.

L'Etat Francais represente par le Delegue General pour l'Armeme *See*—

Balquet, Robert; Baubeau, Robert; Bertrand, Jean-Paul; Guer Jean-Pierre; and Carron, Philippe, 4,708,077, Cl. 114-67.00A.

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Bocker, Jurgen; Klein, Klaus W.; Gersbach, Klaus; Sauvestr Jean-Claude; and Montier, Patrick, 4,714,024, Cl. 102-521.00.

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Baratte, Herve; Lesterlin, Dominique; and Carenco, Ala 4,652,078, Cl. 350-96.140.

Coissard, Pierre; Richard, Joseph; and Morin, Francois, 4,689,1 Cl. 156-651.000.

Letbetter, William D.: *See*—

Seydel, Scott O.; Letbetter, William D.; and Cutts, William H. 4,641,404, Cl. 28-178.000.

Letellier, Michel, to D.M.E. Process for the deposition, on optica substrates, of antireflection coatings capable of being engraved 4,676,992, 6-30-87, Cl. 427-9.000.

Leth, James W.: *See*—

Brown, Donald W.; Leth, James W.; and Vandendorpe, James E. 4,710,926, Cl. 371-9.000.

Leth-Olson, Henrik; and Marot, Lajos K. D., to Aktieselskabet Laur-Knudsen Nordisk Elektricitets Selskab. Switch housing having fixed external nuts for attachment of contacts and terminals. 4,695,6 9-22-87, Cl. 200-303.000.

Lethellier, Patrice R., to Burroughs Corporation. Dual input voltage power supply. 4,654,538, 3-31-87, Cl. 307-75.000.

Lethin, Nils L.: *See*—

Luter, Charles H.; Lethin, Nils L.; Moeller, Johan; and Hol Bjarne R., 4,64[illegible],484, Cl. 301-11.00S.

Le Thuillier, Georgette: *See*—

Dodin, Andre; Siffert, Odile; Le Thuillier, Georgette; and Allard Patrice, 4,686,281, Cl. 530-327.000.

Letica Corporation: *See*—

Letica, Ilija, 4,676,732, Cl. 425-577.000.

Letica, Ilija, 4,711,364, Cl. 220-276.000.

Letica, Ilija, to Letica Corporation. Molding apparatus. 4,676,7 6-30-87, Cl. 425-577.000.

Letica, Ilija, to Letica Corporation. Tamper-evident container and closure. 4,711,364, 12-8-87, Cl. 220-276.000.

Letinski, John S., to Celanese Corporation. Process for the preparation of polybenzimidazole foams. 4,681,716, 7-21-87, Cl. 264-53.000.

Letize, Raymond A.: *See*—

Williams, Ann S.; and Letize, Raymond A., 4,687,545, Cl 156-651.000.

Letizia, Italo; and Lezzerini, Maurizio. Rotating carbon or graphite electrode column to be used both in open- and submerged-arc furnaces. 4,670,884, 6-2-87, Cl. 373-101.000.

Leto, Joseph J.; Gertenbach, Dennis D.; and Gillespie, Daniel W., t Resource Technology Associates. Separation of hydrocarbons from tar sands froth. 4,648,964, 3-10-87, Cl. 208-390.000.

, Paul. Truck door locking system. 4,669,767, 6-2-87, Cl. 292-9.00R.

ffe, Michel, to Rhone-Poulenc Specialites Chimiques. RTV organopolysiloxane compositions and self-adhesive elastomers therefrom. 4,672,003, 6-9-87, Cl. 428-447.000.

oumelin, Loic; Tollon, Franck; and Leduc, Yves, to Texas Instruments Incorporated. DC level trip detector. 4,645,881, 2-24-87, Cl. 79-252.000.

ournel, Michel; Helleboid, Jean-Marie; and Teissier, Claude, to Centre National de la Recherche Scientifique. Apparatus for conveying electrostatic charges, in particular for very high voltage electrostatic generators. 4,680,496, 7-14-87, Cl. 310-308.000.

ourneur, Pierre: *See*—

  Poncelet, Denis; Coulon, Jean-Claude; Chaumette, Jacques; and Letourneur, Pierre, 4,634,231, Cl. 350-311.000.

Traon, Andre: *See*—

  De Burgat, Michel; Le Traon, Andre; Pilet, Jean-Claude; and Sharaiha, Ammar, 4,683,417, Cl. 324-60.00C.

rich, George: *See*—

  Jones, Mark, and Letrich, George, 4,648,804, Cl. 417-87.000.

ron GmbH: *See*—

  Diesel, Hans-Dieter; Schmidt, Hans J.; and Sauer, Burkhard, 4,652,482, Cl. 428-151.000.

Trung, Do: *See*—

  Jacquet, Bernard; Lang, Gerard; Malaval, Alain; Forestier, Serge; and Le Trung, Do, 4,702,906, Cl. 424-70.000.

sch, Manfred: *See*—

  Esselborn, Reiner; Ambrosius, Klaus; Graetz, Hans-Joachim; and Letsch, Manfred, 4,668,570, Cl. 428-324.000.

sche, Ulrich; Rapp, Wolfgang, deceased (by Rapp, Gilsea, heir); Haefner, Guenther; and Tonhaeuser, Wilhelm, to Daimler-Benz Aktiengesellschaft. Pressure oil guide device for injection pump shaft. 4,711,220, 12-8-87, Cl. 123-502.000.

tsche, Ulrich: *See*—

  Hafner, Gunther; Noreikat, Karl-Ernst; Schmidt, Hans-Dieter; Letsche, Ulrich; and Bauer, Bernhard, 4,655,254, Cl. 137-625.650.

  Rapp, Wolfgang, deceased; Hafner, Gunther; and Letsche, Ulrich, 4,712,530, Cl. 123-502.000.

tsinger, Robert L., to Northwestern University. Method of deprotecting polynucleotide trimethylethyl phosphotriesters. 4,672,110, 6-9-87, Cl. 536-27.000.

ttau, Herbert: *See*—

  Dautzenberg, Horst; Loth, Fritz; Borrmeister, Bodo; Bertram, Dieter; Lettau, Herbert; Stamberg, Jiri; and Peska, Jan, 4,664,105, Cl. 128-156.000.

ettington, Alan H.: *See*—

  Green, Geoffrey W., and Lettington, Alan H., 4,704,339, Cl. 428-689.000.

etton, James C., to Procter & Gamble Company, The. Process for preparing alkyl glycosides. 4,713,447, 12-15-87, Cl. 536-18.600.

etvin, Norman: *See*—

  Schlossman, Stuart; Morimoto, Chikao; and Letvin, Norman, 4,661,446, Cl. 435-7.000.

etzel, Helmut: *See*—

  Wollenhaupt, Jakob, 4,659,884, Cl. 200-50.00R.

eu, Beat: *See*—

  Mittelmeier, Heinz; Mittelmeier, Bernhard; and Leu, Beat, 4,654,464, Cl. 623-16.000.

eu, Frederick R.: *See*—

  Grote, Warren, and Leu, Frederick R., 4,673,149, Cl. 248-343.000.

eu, Willey, to Ferag AG. Apparatus for collating differentiated printed products. 4,706,951, 11-17-87, Cl. 270-55.000.

euba, Jean-Louis; Meyer, Inge; and Andersen, Else M., to Nestec S.A. Method for dissolving squid membranes. 4,701,339, 10-20-87, Cl. 426-643.000.

Leucadia, Inc.: *See*—

  Koerschner, Lou A.; Sloumb, Robert C.; and Weber, William E., 4,651,507, Cl. 53-461.000.

  Mudge, Richard C., 4,656,075, Cl. 428-110.000.

  Mudge, Richard C., and Fair, Timothy K., 4,661,389, Cl. 428-110.000.

Leue, William M.; Hodsoll, Raymond J., Jr.; Glover, Gary H.; and Adamchick, John T., to General Electric Company. Gradient field switch for improved magnetic resonance imaging/spectroscopy system. 4,680,547, 7-14-87, Cl. 324-309.000.

Leue, William M.; and Hodsoll, Raymond J., Jr., to General Electric Company. Digital interface subsystem for a magnetic resonance imaging and spectroscopy system. 4,689,564, 8-25-87, Cl. 324-309.000.

Leue, William M.: *See*—

  Bottomley, Paul A.; Edelstein, William A.; Hart, Howard R., Jr.; Schenck, John F.; Redington, Rowland W.; and Leue, William M., 4,689,563, Cl. 324-309.000.

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Leuenberger, Claude-Eric, to Asulab S.A. Passive transponder for locating avalanche victims. 4,656,478, 4-7-87, Cl. 342-51.000.

Leuenberger, Claude-Eric: *See*—

  Bui, Ngoc C.; and Leuenberger, Claude-Eric, 4,663,624, Cl. 340-825.440.

Leuenberger, Hans, to Glatt Maschinen-und Apparatebau AG. Process of treating a particulate material and apparatus for implementing the process. 4,656,056, 4-7-87, Cl. 427-213.000.

Leukel, Bernd: *See*—

  Neidig, Arno; Leukel, Bernd; and Hettmann, Hubert, 4,636,580, Cl. 174-52.0PE.

  Neidig, Arno; Leukel, Bernd; and Bergmann, Lutz, 4,639,759, Cl. 357-74.000.

  Weidenauer, Werner; Leukel, Bernd; and Bunk, Klaus, 4,700,879, Cl. 228-123.000.

Leuker, Wilhelm; Stipsits, Gunter; and Thiel, Bernhard, to Kraftwerk Union Aktiengesellschaft. Method for finding a leak in pressure-carrying vessels and apparatus for carrying out the method. 4,640,121, 2-3-87, Cl. 73-40.50A.

Leumann, Hans E.: *See*—

  Bova, Ignatius N.; Kalkbrenner, Ralph W.; and Leumann, Hans E., 4,699,750, Cl. 376-245.000.

Leuner, Hanscarl, and Klaumunzer, Hartwig. Method and apparatus for measuring the relaxation state of a person. 4,665,926, 5-19-87, Cl. 128-716.000.

Leung, Charles C., to Avantek, Inc. Method for planarizing wafers. 4,672,023, 6-9-87, Cl. 430-311.000.

Leung, Chi H., to GTE Products Corporation. Silver-tungsten carbide-graphite electrical contact. 4,689,196, 8-25-87, Cl. 419-11.000.

Leung, Chi H.: *See*—

  DeNuccio, Ron J.; Kim, Han J.; and Leung, Chi H., 4,694,558, Cl. 29-527.200.

Leung, Frederick C.: *See*—

  Kopchick, John J.; Leung, Frederick C.; Livelli, Thomas J.; and Malavarca, Richard H., 4,686,098, Cl. 424-15.000.

Leung, Howard K. H.; Nguyen, Bich-Yen; Alvis, John R.; and Schmiesing, John, to Motorola, Inc. Trench formation process. 4,693,781, 9-15-87, Cl. 156-643.000.

Leung, Pak S.; and Matulewicz, William N., to First Brands Corporation. Organophosphate-containing antifreeze with buffer. 4,684,474, 8-4-87, Cl. 252-75.000.

Leung, Pak S.: *See*—

  Goddard, Errol D.; Haack, John L.; and Leung, Pak S., 4,704,220, Cl. 252-75.000.

Leung, Tommy Y.: *See*—

  Waldron, Mark A., and Leung, Tommy Y., 4,691,342, Cl. 379-98.000.

Leung, Wan L.: *See*—

  Brandt, Henry R.; Gannon, Patrick M.; Leung, Wan L.; and Marchini, Timothy R., 4,695,950, Cl. 364-200.000.

Leung, Wing K.: *See*—

  Larsen, Larry D.; Yung, Richard C. S.; Leung, Wing K.; and Hogel, Joseph E., 4,691,794, Cl. 177-211.000.

Leung, Wu-Hon F.: *See*—

  Hansen, Terris L.; Hyatt, Wayne E.; and Leung, Wu-Hon F., 4,695,977, Cl. 364-900.000.

Leupold, Ernst I.: *See*—

  Driscoll, Robert K.; Leupold, Ernst I.; and Ebertz, Wolfgang, 4,692,547, Cl. 560-186.000.

Leupold, Herbert A., to United States of America, Army. Lightweight cladding for magnetic circuits. 4,647,887, 3-3-87, Cl. 335-211.000.

Leupold, Herbert A., to United States of America, Army. Confinement of kOe magnetic fields to very small areas in miniature devices. 4,654,618, 3-31-87, Cl. 335-304.000.

Leupold, Herbert A., to United States of America, Army. Confinement of longitudinal, axially symmetric, magnetic fields to annular regions with permanent magnets. 4,658,228, 4-14-87, Cl. 335-211.000.

Leupold, Herbert A.; Potenziani, Ernest, II; and Clarke, John, to United States of America, Army. Remanence varying in a leakage free permanent magnet field source. 4,692,732, 9-8-87, Cl. 335-302.000.

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Leupold & Stevens: *See*—

  Gibson, Dale E., 4,643,542, Cl. 350-562.000.

Leupold & Stevens, Inc.: *See*—

  Mathis, Henry L., 4,646,085, Cl. 340-870.190.

Leur, Robert: *See*—

  Barendsz, Anton W.; van Beest, Cornelis A.; and Leur, Robert, 4,644,333, Cl. 340-634.000.

Leurs, Anna M. C.: *See*—

  Van Simaeys, Francoise C. G.; Leurs, Anna M. C.; Upp, Daniel C.; Lawrence, Alan J.; and Cotton, John M., 4,641,301, Cl. 370-58.000.

Leuschner, Horst, to Thomson Components-Mostek Corporation. Improved nonvolatile memory circuit using a dual node floating gate memory cell. 4,685,083, 8-4-87, Cl. 365-185.000.

Leusner, Steven J.; Raphael, Barbara C.; and Swanhart, William G., Jr., to General Foods Corporation. Process for manufacture of emulsions containing soy protein. 4,696,826, 9-29-87, Cl. 426-565.000.

Leussler, Wilhelm, to Metallgesellschaft Aktiengesellschaft. Method of automatically controlling an electrostatic precipitator. 4,680,036, 7-14-87, Cl. 55-2.000.

Leussler, Wilhelm, to Metallgesellschaft Aktiengesellschaft. Granular filter and method of operating same. 4,702,751, 10-27-87, Cl. 55-96.000.

Leute, Ulrich: *See*—

  Quella, Ferdinand; and Leute, Ulrich, 4,689,250, Cl. 427-216.000.

  Reichert, Karl-Heinz; Schoeppel, Wolfgang; Ewangelidis, Stawros; Bednarz, Jurgen; and Leute, Ulrich, 4,705,648, Cl. 252-512.000.

Leuthen, John M., to Hughes Tool Company. Overcurrent protection circuit for power transistors. 4,680,664, 7-14-87, Cl. 361-91.000.

Leuthi, Rudolf: *See*—

  Herb, Armin; Huegel, Robert; and Leuthi, Rudolf, 4,673,321, Cl. 411-40.000.

- Leuthner, Hermann J.: *See—*
  - Alender, Wolfgang J.; Anders, Heinz-Gerhard; and Leuthner, Hermann J., 4,648,282, Cl. 73-862.230.
- Leutwein, Manfred: *See—*
  - Blattner, Dietmar; Dieterle, Hermann; Leutwein, Manfred; and Simon, Horst, 4,698,883, Cl. 29-56.500.
  - Blattner, Dietmar; Dieterle, Hermann; Leutwein, Manfred; and Simon, Horst, 4,706,370, Cl. 29-564.200.
- Leuveld, Jozef G. M.: *See—*
  - de Vries, Gerrit; Leuveld, Jozef G. M.; and Kleijn, Johan W., 4,668,231, Cl. 604-891.000.
  - Ligtenberg, Hendrikus C. G.; and Leuveld, Jozef G. M., 4,701,253, Cl. 204-416.000.
- Lev, Mikhail B.: *See—*
  - Lidorenko, Nikolai S.; Gorun, Viktor T.; Muchnik, Grigory F.; Karichev, Zia R.; Shteinberg, Alexandr N.; Lev, Mikhail B.; Moiseev, Viktor I.; Schegolev, Igor S.; Ilin, Vladimir M.; and Smirnov, Igor I., 4,666,668, Cl. 422-48.000.
- Lev, Monick; and Frankstein, Brois, to State of Israel-Ministry of Agriculture. Apparatus for sorting and bunching flowers and other agricultural produce. 4,704,846, 11-10-87, Cl. 53-522.000.
- Lev, Sam: *See—*
  - Magnuson, Douglas; Wolff, Merle; Lev, Sam; Jeffries, Kenneth; and Mapes, Scott D., 4,670,214, Cl. 419-3.000.
- Lev, Valy: *See—*
  - Labedz, Gerald P.; Bonta, Jeffrey D.; Schaeffer, Dennis R.; Tell, Daniel F.; and Lev, Valy, 4,654,867, Cl. 379-59.000.
- Levacher, Friedrich K.; and Federmann, Helmut, to Felten & Guilleaume Energietechnik GmbH. High tensile wire provided with light guide sensor. 4,634,217, 1-6-87, Cl. 350-96.230.
- Levan, Chris D., to Amoco Corporation. Turbulent flow liquid application apparatus and a method of turbulently applying a liquid onto a substrate. 4,686,123, 8-11-87, Cl. 427-424.000.
- Levander, Kai: *See—*
  - Heideman, Torsten; Levander, Kai; and Salmi, Pekka, 4,702,187, Cl. 114-40.000.
- Levandoski, Ronald R. Method and apparatus for articulating human and animal jaw structures. 4,668,189, 5-26-87, Cl. 433-55.000.
- Le Van Mao, Raymond, to Asbestos Institute, The. Dry impregnated manganese zeolite. 4,692,424, 9-8-87, Cl. 502-68.000.
- Le Van Mao, Raymond; and Dao, Le H., to Institut Nationale de la Recherche Scientifique. Ethylene light olefins from ethanol. 4,698,452, 10-6-87, Cl. 585-640.000.
- Le Vantine, Allan D. Device for removing static charge, dust and lint from surfaces. 4,635,161, 1-6-87, Cl. 361-213.000.
- Le Vantine, Allan D. Heat free examination light with fully rotatable head and arm. 4,692,849, 9-8-87, Cl. 362-402.000.
- Levar, Robert E.: *See—*
  - Amor, William H.; and Levar, Robert E., 4,658,408, Cl. 178-4.000.
- Levasseur, Jean-Pierre, to Omnium de Traitements et de Valorisation (O.T.V.). Apparatus for processing solid wastes to produce a fuel. 4,692,167, 9-8-87, Cl. 44-2.000.
- Levasseur, Joseph L., to Coin Acceptors, Inc. Stamp scanning and dispensing means and method. 4,637,523, 1-20-87, Cl. 221-13.000.
- LeVasseur, Rod: *See—*
  - Beech, Brian; Rust, Jeff; Meilach, Alan; and LeVasseur, Rod, 4,701,600, Cl. 235-375.000.
- Levavasseur, Jean R., to Axytel. Process for marking and/or destroying valuable documents in particular and device for making use of it. 4,712,489, 12-15-87, Cl. 109-25.000.
- Levavi, Shmuel. Human powered vehicles and mechanism particularly useful therein. 4,708,356, 11-24-87, Cl. 280-255.000.
- Levchenko, Georgy T.; and Radzikovsky, Alexandr N., to Kievsky Politekhnichesky Institut. Evaporator for depositing films in a vacuum. 4,700,660, 10-20-87, Cl. 118-726.000.
- LeVee, Robert C. Fifth wheel hitch. 4,669,748, 6-2-87, Cl. 280-423.00R.
- LeVee, Robert C. Roof mounted storage device. 4,669,773, 6-2-87, Cl. 296-37.700.
- LeVee, Robert C. Watertight, secured truck enclosure. 4,685,695, 8-11-87, Cl. 280-423.00B.
- LeVeen, Eric G.; and LeVeen, Robert F. Apparatus and method of quantifying hemostasis using oscillations from a transducer immersed in the blood sample. 4,695,956, 9-22-87, Cl. 364-416.000.
- LeVeen, Eric G.: *See—*
  - LeVeen, Harry H.; and LeVeen, Eric G., 4,650,463, Cl. 604-43.000.
  - LeVeen, Harry H.; and LeVeen, Eric G., 4,662,404, Cl. 138-120.000.
  - LeVeen, Harry H.; LeVeen, Eric G.; and LeVeen, Robert F., 4,684,627, Cl. 514-25.000.
- LeVeen, Harry H.; and LeVeen, Eric G. Perforated tubing. 4,650,463, 3-17-87, Cl. 604-43.000.
- LeVeen, Harry H.; and LeVeen, Eric G. Flexible tubing. 4,662,404, 5-5-87, Cl. 138-120.000.
- LeVeen, Harry H.; LeVeen, Eric G.; and LeVeen, Robert F. Treatment of cancer with phlorizin and its derivatives. 4,684,627, 8-4-87, Cl. 514-25.000.
- LeVeen, Robert F.: *See—*
  - LeVeen, Eric G.; and LeVeen, Robert F., 4,695,956, Cl. 364-416.000.
  - LeVeen, Harry H.; LeVeen, Eric G.; and LeVeen, Robert F., 4,684,627, Cl. 514-25.000.
- Leveille, Serge; Cormier, Jacqueline; Cormier, Ginette; and Brassard, Pierre. Abduction-preventing collar. 4,694,284, 9-15-87, Cl. 340-574.000.
- Level, Michel: *See—*
  - Audibert, Francoise; Carelli, Claude; Chedid, Louis; Lefrancier, Pierre; Level, Michel; and Choay, Jean, 4,639,512, C 530-313.000.
- Level-Rider Inc.: *See—*
  - Weyenberg, Lionel E., 4,636,001, Cl. 297-314.000.
- Levenberg, Nat, to Jefsteel Business Equipment Corp. Desk organizer. 4,664,040, 5-12-87, Cl. 108-111.000.
- Levendusky, Thomas L.; and Benson, Arthur, to Aluminum Co. of America. Container system for microwave cooking. 4,689,45 8-25-87, Cl. 219-10.55E.
- Levendusky, Thomas L.; Benson, Arthur; and Lunden, Richard W., to Aluminum Company of America. Cooking utensil for combined microwave and steam cooking. 4,705,927, 11-10-87, Cl. 219-10.55E.
- Levendusky, Thomas L.: *See—*
  - Musselman, Lawrence L.; and Levendusky, Thomas L., 4,711,67 Cl. 106-287.170.
- Levene, Martin M.; and Lessard, William W., to Ontario Die Company Limited. Vacuum die cutting apparatus for foam backed materials. 4,672,870, 6-16-87, Cl. 83-19.000.
- Levene, Martin M.; and Lessard, William W., to Ontario Die Company Limited. Vacuum die cutting apparatus. 4,694,719, 9-22-87, Cl. 83-451.000.
- Levenez, Yves: *See—*
  - Legris, Andre; and Levenez, Yves, 4,658,849, Cl. 137-82.000.
- Levengood, Donald A.: *See—*
  - Danko, Oliver L.; Bork, Carl R., Jr.; Steiss, William C.; and Levengood, Donald A., 4,634,099, Cl. 251-335.300.
- Levenson, Corey H.; and Mullis, Kary B., to Cetus Corporation. Precursor to nucleic acid probe. 4,705,886, 11-10-87, Cl. 560-159.000.
- Levenstein, Victor M.: *See—*
  - Mann, John P.; Levenstein, Victor M.; and Fox, Charles H., 4,648,660, Cl. 299-10.000.
- Levenston, Frederick M. Neck exercising device. 4,645,198, 2-24-87, Cl. 272-70.300.
- Leveque, Jean-Luc M.: *See—*
  - De Rigal, Jean P.; Leveque, Jean-Luc M.; Rasseneur, Laurent B.; and Losch, Marie-Jeanne, 4,682,608, Cl. 128-774.000.
- Lever Brothers Company: *See—*
  - Bews, Brian; Critchley, Peter; Durrant, James A.; Stebles, Malcolm R. D.; and Tipping, Leigh R. H., 4,659,560, Cl. 424-47.000.
  - Bews, Brian; Critchley, Peter; Durrant, James A.; Stebles, Malcolm R. D.; and Tipping, Leigh R. H., 4,708,863, Cl. 424-47.000.
  - Biernoth, Gerhard; Menz, Hans-Udo; Todt, Klaus H.; and Wieske, Theophil, 4,716,047, Cl. 426-603.000.
  - Bodor, Janos; and Van Heteren, Jan, 4,656,045, Cl. 426-601.000.
  - Bunschoten, Gerrit K., 4,640,441, Cl. 222-207.000.
  - Callingham, Martin; Chaudhuri, Dwaipayan; Curry, Kenneth V.; Pike, Barry G.; and Taylor, Michael B., 4,650,670, Cl. 424-65.000.
  - Carter, Malcolm N. A.; and Scowen, Reginald V., 4,711,740, Cl. 252-174.240.
  - Caserio, Domenico; Mignini, Elio; and Davot, Micheline M. J., 4,664,910, Cl. 424-70.000.
  - Caswell, Michael L.; Corr, James J.; Dobrovolny, Mark S.; Lander, Lynn H.; Narath, William R.; and Theiler, Richard F., 4,695,395, Cl. 252-121.000.
  - Chang, Stephen S.; Ho, Chi-Tang; and Izzo, Barbara A., 4,670,267, Cl. 426-41.000.
  - Chun, Kil Whan; Lang, David J.; and Santos, Edward, 4,655,780, Cl. 8-108.100.
  - Chun, Kil Whan; Gilbert, Allan H.; Lang, David J.; and Santos, Edward, 4,707,160, Cl. 8-101.000.
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  - Clarke, Terence A.; Edwards, Richard B.; and Irving, Graeme N., 4,680,132, Cl. 252-108.000.
  - Cox, Ian R.; and Haq, Zia, 4,659,564, Cl. 424-65.000.
  - Coxon, Andrew C., 4,675,393, Cl. 536-18.600.
  - Czempik, Klaus; and Stremmel, Gerd, 4,639,326, Cl. 252-91.000.
  - Delwel, Francois; and Claassens, Marinus L. M., 4,637,891, Cl. 252-135.000.
  - Dobrovolny, Mark S.; Corr, James J.; and Narath, William R., 4,663,070, Cl. 252-121.000.
  - Doornbos, Tamme; van der Heijden, Arnoldus; van der Kamp, Johannes W.; and de Rooij, Johannes F., 4,701,335, Cl. 426-533.000.
  - Durrant, James A.; and Lowry, Michael R., 4,699,924, Cl. 514-558.000.
  - Edge, David J.; Naik, Appaya R.; and Scott, Melvin, 4,680,143, Cl. 252-553.000.
  - Farnworth, Pauline; Garner-Gray, Peter F.; and Parslow, Michael W., 4,650,599, Cl. 252-99.000.
  - Hagemann, Alfred A. W. A.; and Johnson, George A., 4,663,068, Cl. 252-99.000.
  - Hennig, Horst, 4,657,174, Cl. 229-17.00R.
  - Hight, Andrew T., 4,695,284, Cl. 8-137.000.
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  - Irlam, Geoffrey; Lowry, Michael R.; and Twemlow, Richard M., 4,666,624, Cl. 252-134.000.
  - Irlam, Geoffrey; and Smith, Ian J., 4,707,288, Cl. 252-121.000.
  - Irwin, Charles F.; Karpusiewicz, William; and Liberati, Patricia, 4,711,748, Cl. 264-117.000.
  - Izzo, Henry J., 4,684,532, Cl. 426-533.000.
  - Jones, Keith; Lothian, Barry R.; Martin, Alexander; Taylor, Graham; and Haq, Zia, 4,668,709, Cl. 521-146.000.

- Kerslake, Andrew J., 4,634,564, Cl. 264-75.000.
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- Lane, Roger M.; Hull, Derek M. C.; Saxton, Charles A., and van der Ouderaa, Franciscus J. G., 4,656,031, Cl. 424-49.000.
- Leigh, Arthur G., and Martin, John R., 4,706,802, Cl. 206-0.500.
- Marthaler, Thomas; and Witzig-Jaggi, Uli, 4,667,360, Cl. 15-167.00R.
- Martin, Alexander; Overton, Colin; and Machin, David, 4,666,622, Cl. 252-99.000.
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- Melville, James B., 4,636,330, Cl. 252-174.110.
- Niven, Ian E.; and Travill, Andrew W., 4,645,616, Cl. 252-135.000.
- Oakes, John, 4,655,953, Cl. 252-99.000.
- Parslow, Michael W.; and Nooi, Jacobus R., 4,648,979, Cl. 252-8.800.
- Parslow, Michael W.; and Nooi, Jacobus R., 4,661,289, Cl. 252-547.000.
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- Schwarz, Joshua, 4,659,826, Cl. 544-277.000.
- Secemski, Isaac I.; and Lynn, Jesse L., Jr., 4,692,275, Cl. 252-534.000.
- Tai, Ho T., 4,713,193, Cl. 252-91.000.
- Thom, David; Swarthoff, Ton; and Maat, Jan, 4,707,291, Cl. 252-174.120.
- Lever, Robert J. A. B. Structural element for three dimensional objects, e.g. furniture. 4,684,282, 8-4-87, Cl. 403-219.000.
- Leverance, Robert A.; and Longas, Socrates A., to United States of America, Navy. Near ultrasonic pattern comparison intrusion detector. 4,639,902, 1-27-87, Cl. 367-93.000.
- Leverberg, Siegfried; and Hofmann, Manfred, to Hydrotechnik GmbH. Measurement coupling for fluidic systems. 4,638,668, 1-27-87, Cl. 73-866.500.
- Leverenz, Klaus: *See*—
  - Kruckenberg, Winfried; Leverenz, Klaus; and Otten, Hans-Gunter, 4,681,932, Cl. 534-575.000.
- Leverette, Charles R. Apparatus for inhibiting digit sucking. 4,665,907, 5-19-87, Cl. 128-133.000.
- Leverette, David S.: *See*—
  - Spamer, William S.; and Leverette, David S., 4,706,820, Cl. 211-59.200.
- Leversee, Garrett J. Key decoding device for automobiles. 4,638,567, 1-27-87, Cl. 33-540.000.
- Levert, Patrice C.: *See*—
  - Abecassis, Jacky R.; Baum, Bernard; Favier, Andre-Marcel; and Levert, Patrice C., 4,703,717, Cl. 118-698.000.
- Levi, Anthony F. J.: *See*—
  - Hensel, John C.; Levi, Anthony F. J.; and Tung, Raymond T., 4,707,197, Cl. 437-189.000.
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- Levi, Richard: *See*—
  - Kimmel, Richard D.; Knepper, Ronald W.; and Levi, Richard, 4,651,302, Cl. 365-104.000.
- Levi Strauss & Co.: *See*—
  - Blessing, Hubert, 4,655,596, Cl. 356-372.000.
  - Blessing, Hubert, 4,688,781, Cl. 271-1.000.
  - Croyle, Gene F., 4,658,144, Cl. 250-548.000.
  - Harrington, Richard L., 4,653,414, Cl. 112-142.000.
  - Michaels, Sid, and Silva, Pedro T., 4,665,848, Cl. 112-121.260.
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- Levien, Andrew K.: *See*—
  - Dahlin, Erik B.; Kaiser, Sidney V.; Young, Alan M.; and Levien, Andrew K., 4,660,421, Cl. 73-861.380.
- Le Viet, Toai, to Nestecs S.A. Process and device for homogeneous microwave thermal treatment of liquid or solution in motion. 4,694,133, 9-15-87, Cl. 219-10.55M.
- Levin, Andrew E., to Wisconsin Alumni Research Foundation. Templet for simultaneous screening of several antibodies and method of using the same. 4,713,349, 12-15-87, Cl. 436-515.000.
- Levin, Bernard M.: *See*—
  - Selling, Harley M.; and Levin, Bernard M., 4,652,085, Cl. 350-318.000.
- Levin, Gideon; and Nae, Hemi N., to Yeda Research and Development Co., Ltd. Grafting of epoxy resin on amide. 4,654,391, 3-31-87, Cl. 525-113.000.
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- Levin, Herman W.: *See*—
  - Abbott, Scot D.; Levin, Herman W.; Kobos, Robert K.; Kilkson, Henn; and Peterson, Dale R., 4,699,887, Cl. 436-70.000.
  - Bach, David T.; Gruenke, Roger A.; and Levin, Herman W., 4,681,443, Cl. 356-246.000.
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  - Pike, Charles T.; Furumoto, Horace W.; and Levin, Lawrence A., 4,636,287, Cl. 204-157.150.
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- Levin, Nathan W.; and Zasuwa, Gerard A., to Henry Ford Hospital. Automated hemodialysis control based upon patient blood pressure and heart rate. 4,710,164, 12-1-87, Cl. 604-66.000.
- Levin, Richard I.: *See*—
  - Cox, Michael W.; Levin, Richard I.; Cohen, David J.; and Frisbie, William R., 4,679,144, Cl. 364-417.000.
- Levin, Robert E., and English, George J., to GTE Products Corporation. Motor vehicle lighting system including a sealed lens member as part thereof. 4,646,207, 2-24-87, Cl. 362-80.000.
- Levin, Robert E., and English, George J., to GTE Products Corporation. Lamp reflector. 4,646,215, 2-24-87, Cl. 362-296.000.
- Levin, Sandra A.: *See*—
  - Baran, Patrick S.; Levin, Sandra A.; and Kuna, Wayne A., 4,673,181, Cl. 273-1.0GC.
- Levin, Sherman L., to General Electric Company. Temperature control of light modulating fluid in a light valve projection system. 4,698,687, 10-6-87, Cl. 358-230.000.
- Levin, Steven M.: *See*—
  - Pitts, Warren R.; Johnson, Lewis H.; and Levin, Steven M., 4,650,360, Cl. 401-198.000.
- Levina, Anna I.: *See*—
  - Vasiliev, Vsevolod V.; Danilyak, Sergei N.; Levina, Anna I.; Nushko, Valery A.; and Roiko, Jury P., 4,689,021, Cl. 434-234.000.
- Levine, Alfred B. Dual electronic camera, previewing, and control. 4,714,962, 12-22-87, Cl. 358-209.000.
- Levine, Alfred B. Method for previewing undeveloped film. 4,716,470, 12-29-87, Cl. 358-256.000.
- LeVine, Arthur L. Sharpener mounting construction. 4,714,239, 12-22-87, Cl. 269-3.000.
- Levine, Gerald B.: *See*—
  - Schwerdt, Kurt R.; and Levine, Gerald B., 4,678,969, Cl. 315-382.000.
- Levine, Herbert R.; Gerrato, Stephen G.; and Poulin, Benoit L., to Essex Group, Inc. Method of making texturized heat shrinkable tubing. 4,661,314, 4-28-87, Cl. 264-508.000.
- Levine, James L.: *See*—
  - Bowman, Charles H.; Farringer, Jeffrey A.; Garwin, Richard L.; Greene, Larry L.; Levine, James L.; Miles, Anthony W.; and Vorhees, Kevin H., 4,675,569, Cl. 310-328.000.
  - Garwin, Richard L.; and Levine, James L., 4,642,422, Cl. 178-18.000.
- Levine, Jeffrey A.: *See*—
  - Covey, Douglas F.; Levine, Jeffrey A.; and Ferrendelli, James A., 4,707,491, Cl. 514-445.000.
- Levine, Jesse. Apparatus for manufacturing rings. 4,689,464, 8-25-87, Cl. 219-78.010.
- Levine, Jules D.; Jensen, Millard J.; and Haney, Ronald E., to Texas Instruments Incorporated. Solar array with aluminum foil matrix. 4,691,076, 9-1-87, Cl. 136-250.000.
- Levine, Jules D.: *See*—
  - Witter, David E., and Levine, Jules D., 4,637,855, Cl. 156-616.00R.
- Levine, Lance R.: *See*—
  - Genovese, Vincent P.; and Levine, Lance R., 4,675,032, Cl. 55-96.000.
- Levine, Leon: *See*—
  - Levine, Richard M.; Levine, Stuart H.; and Levine, Leon, 4,702,100, Cl. 72-404.000.
- Levine, Marc M.: *See*—
  - Huttner, James, and Levine, Marc M., 4,713,057, Cl. 604-164.000.
- Levine, Marc S., to United DC. Pneumatic conveying system. 4,695,205, 9-22-87, Cl. 406-38.000.
- Levine, Michael R., to Honeywell Inc. Electronic thermostat for heating and cooling system. 4,635,708, 1-13-87, Cl. 165-12.000.
- Levine, Michael R.; Russo, James T.; and Rigotti, Victor H., to Honeywell, Inc. Electronic programmable thermostat. 4,669,654, 6-2-87, Cl. 236-46.00R.
- Levine, Michael R., to Honeywell, Inc. Electronic thermostat with selectable mode to control heating only, cooling only or both heating and cooling. 4,683,939, 8-4-87, Cl. 165-12.000.
- Levine, Michael R., to Honeywell, Inc. Analog to digital conversion employing the system clock of a microprocessor, the clock frequency varying with analog input. 4,685,614, 8-11-87, Cl. 236-78.00D.
- Levine, Michael R.; Russo, James T.; Cairo, Anthony C.; and Rigotti, Victor H., to Honeywell Inc. Manual switch for altering a parameter in opposite directions based on length of time of switch actuation. 4,695,942, 9-22-87, Cl. 364-188.000.
- Levine, Morris M., to Sweet Victory, Inc. Mixing apparatus and method. 4,637,221, 1-20-87, Cl. 62-342.000.
- Levine, Peter A., to RCA Corporation. Back-illuminated CCD imager adapted for contrast transfer function measurements thereon. 4,641,963, 2-10-87, Cl. 356-124.500.
- Levine, Peter A., to RCA Corporation. Low noise synchronous detection for a charge transfer device. 4,644,287, 2-17-87, Cl. 329-50.000.
- Levine, Peter A., to RCA Corporation. Method and apparatus for aligning solid-state imagers. 4,646,142, 2-24-87, Cl. 358-50.000.
- Levine, Peter A., to RCA Corporation. Tapped CCD delay line with non-destructive charge sensing using floating diffusions. 4,661,788, 4-28-87, Cl. 333-165.000.
- Levine, Peter A., to RCA Corporation. Suppression of field-rate brightness variations for a television camera. 4,670,787, 6-2-87, Cl. 358-161.000.
- Levine, Peter A., to RCA Corporation. CCD imager output signal processing using drain output signal and wide-band sampled detected floating-element output signal. 4,677,490, 6-30-87, Cl. 358-213.260.
- Levine, Peter A.; Cobb, Arthur L., Jr.; Johnson, Cydney A.; and Peterson, Gary R., to RCA Corporation. Color television camera with selectively removable infrared rejection filter. 4,695,878, 9-22-87, Cl. 358-44.000.

Levine, Peter A., to RCA Corporation. Temperature tracking defect corrector for a solid-state imager. 4,703,442, 10-27-87, Cl. 364-521.000.

Levine, Peter A.: *See—*
  Kosonocky, Walter F.; Battson, Donald F.; and Levine, Peter A., 4,656,518, Cl. 358-213.000.

Levine, Richard A. Double-blind labels. 4,637,635, 1-20-87, Cl. 283-101.000.

Levine, Richard M.; Levine, Stuart H.; and Levine, Leon. Adjustable clevis. 4,702,100, 10-27-87, Cl. 72-404.000.

Levine, Robert A.; and Wardlaw, Stephen C. Device for detecting nocturnal penile erections. 4,700,715, 10-20-87, Cl. 128-774.000.

Levine, Robert A.: *See—*
  Wardlaw, Stephen C.; Levine, Robert A.; Rodriguez, Rodolfo R.; and Loken, Michael R., 4,695,553, Cl. 436-177.000.

Levine, Samuel W., to Allied Corporation. Plated parts and their production. 4,666,796, 5-19-87, Cl. 428-670.000.

Levine, Seymour D.: *See—*
  Bandurco, Victor T.; Levine, Seymour D.; Mulvey, Dennis M.; and Tobia, Alfonso J., 4,656,267, Cl. 544-119.000.

Levine, Stephen N., to Motorola, Inc. Synchronization sequence decoder for a digital radiotelephone system. 4,649,543, 3-10-87, Cl. 371-41.000.

Levine, Stephen N., to Motorola, Inc. Phase comparator for use with a digital phase locked loop or other phase sensitive device. 4,668,917, 5-26-87, Cl. 328-133.000.

Levine, Steven K. Modular wine rack. 4,660,727, 4-28-87, Cl. 211-74.000.

Levine, Stuart H.: *See—*
  Levine, Richard M.; Levine, Stuart H.; and Levine, Leon, 4,702,100, Cl. 72-404.000.

Levine, Zachary H.: *See—*
  Hechtman, Charles D.; and Levine, Zachary H., 4,642,890, Cl. 29-846.000.

Levino, Andre J., to Westinghouse Electric Corp. Electrical insulation taping machine with uniform tape tensioning. 4,640,086, 2-3-87, Cl. 57-3.000.

Levinson, Arthur D.; and Simonsen, Christian C., to Genentech, Inc. Polycistronic expression vector construction. 4,713,339, 12-15-87, Cl. 435-240.200.

Levinson, Frank H.: *See—*
  Karr, Michael A., III; and Levinson, Frank H., 4,647,146, Cl. 350-96.150.

Levinson, Gary M. Grand piano action. 4,685,371, 8-11-87, Cl. 84-239.000.

Levinson, Harold N. Diagnostic screening procedure for identifying dysmetric dyslexia. 4,706,686, 11-17-87, Cl. 128-745.000.

Levinson, Lionel M., to General Electric Company. Tubular varistor arrangement. 4,638,284, 1-20-87, Cl. 338-21.000.

Levinson, Samuel, to United Technologies Corporation. Power combining cavity. 4,656,438, 4-7-87, Cl. 330-287.000.

Levinson, Samuel; Libowitz, George G.; and Maeland, Arnulf J., to Allied Corporation. Low-energy process for separation of hydrogen isotopes. 4,659,554, 4-21-87, Cl. 423-249.000.

Levinson, Samuel H.: *See—*
  Bakka, Charles M.; and Levinson, Samuel H., 4,653,966, Cl. 410-1.000.
  Boldridge, Austin, Jr.; Buell, Scott; and Graham, James M., 4,712,092, Cl. 340-365.00A.

Levinstone, Donald S.: *See—*
  Alston, Lawrence E.; Levinstone, Donald S.; and Plummer, William T., 4,647,975, Cl. 358-213.000.

Levis, William W., Jr.: *See—*
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Levitator, Inc.: *See—*
  Stevenson, Ernest W.; and Nahas, Randall E., 4,714,375, Cl. 405-3.000.

Leviton Manufacturing Company, Inc.: *See—*
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  Campolo, Steve, 4,694,223, Cl. 315-118.000.
  Gershen, Bernard; Rosenbaum, Saul; and Pearse, James N., 4,709,293, Cl. 361-50.000.
  Johnson, George E.; and Newman, Walter, 4,637,671, Cl. 339-50.00R.
  Johnson, George E.; and Newman, Walter, 4,643,503, Cl. 339-50.00R.
  Johnson, George E.; and Newman, Walter, 4,664,465, Cl. 339-119.00L.
  Neiger, Benjamin B., 4,704,656, Cl. 361-173.000.
  Poliak, John M.; Lopez, Juan M.; and Gritz, Robert W., 4,634,211, Cl. 339-196.00M.
  Poliak, John M.; and Anker, Herbert, 4,641,905, Cl. 339-103.00B.

Levitt, George, to Du Pont de Nemours, E. I., and Company. Herbicidal thiophenesulfonamides. 4,645,529, 2-24-87, Cl. 71-90.000.

Levitt, George, to Du Pont de Nemours, E. I., and Company. Alkyl sulfones. 4,645,531, 2-24-87, Cl. 71-92.000.

Levitt, George, to Du Pont de Nemours, E. I., and Company. Agriculture sulfonamides. 4,647,303, 3-3-87, Cl. 71-90.000.

Levitt, George; and Wolf, Anthony D., to Du Pont de Nemours, E. I., and Company. Alkyl sulfonyl sulfonamides. 4,655,821, 4-7-87, Cl. 71-92.000.

Levitt, George, to Du Pont de Nemours, E. I., and Company. Herbicidal sulfonamides. 4,655,822, 4-7-87, Cl. 71-92.000.

Levitt, George, to Du Pont de Nemours, E. I., and Company. Herbicidal acetals and ketals. 4,659,369, 4-21-87, Cl. 71-92.000.

Levitt, George, to Du Pont de Nemours, E. I., and Company. Thiophenesulfonamides. 4,668,281, 5-26-87, Cl. 71-93.000.

Levitt, George; and Zimmerman, William T., to E.I. Du Pont de Nemours and Company. Herbicidal alkenyl sulfonamides. 4,680,053, 7-14-87, Cl. 71-93.000.

Levitt, George, to Du Pont de Nemours, E. I., and Company. Agriculture sulfonamides. 4,684,395, 8-4-87, Cl. 71-92.000.

Levitt, George, to Du Pont de Nemours, E. I., and Company. Agricultural sulfonamides. 4,687,507, 8-18-87, Cl. 71-92.000.

Levitt, George, to Du Pont de Nemours, E. I., and Company. Agricultural sulfonamides. 4,689,072, 8-25-87, Cl. 71-93.000.

Levitt, George, to Du Pont de Nemours, E. I., and Company. Agricultural ureas and isoureas. 4,701,535, 10-20-87, Cl. 549-60.000.

Levitt, George: *See—*
  Hay, James V.; and Levitt, George, 4,678,500, Cl. 71-92.000.

Levitt-Safety Limited: *See—*
  Gentry, Kenneth R.; and Nikolich, Michael, 4,634,936, Cl. 315-307.000.
  Lane, Kerry S.; and Moore, Derek V., 4,692,682, Cl. 320-35.000.
  Moore, Derek V., 4,649,333, Cl. 320-31.000.

Levius, Rudolf: *See—*
  Blaskovits, Pavol; Lesnak, Stefan; Martisik, Alojz; Zajac, Jan; Slavkovsky, Jan; Turiansky, Ladislav; and Levius, Rudolf, 4,707,581, Cl. 219-73.110.

Levkov, Biagoje: *See—*
  Wagener, Dietrich; Laue, Karl H.; Wunderlich, Egmar; Sander, Theo; Flockenhaus, Claus; Hackler, Erich; Levkov, Biagoje; Grimm, Daniel; Kainer, Hartmut; Stein, Hermann; Buhler, Hans-Eugen; Kalfa, Horst; Jansen, Johann; Stender, Werner; and Max, Arnold, 4,695,559, Cl. 502-183.000.

Levkov, Blagoje: *See—*
  Buhler, Hans-Eugen; Stein, Hermann; Levkov, Blagoje; Kainer, Hartmut; Kalfa, Horst; and Grimm, Daniel, 4,656,148, Cl. 502-34.000.
  Wagener, Dietrich; Laue, Karl H.; Wunderlich, Egmar; Sander, Theo; Flockenhaus, Claus; Hackler, Erich; Levkov, Blagoje; Grimm, Daniel; Kainer, Hartmut; and Stein, Hermann, 4,672,052, Cl. 502-439.000.

Levolor Lorentzen, Inc.: *See—*
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Levonius, Carl G., Jr. Electronic calibrator. 4,700,128, 10-13-87, Cl. 324-74.000.

Levrai, Roland: *See—*
  Carre, Jean-Jacques; Kervagoret, Gilbert; and Levrai, Roland, 4,651,528, Cl. 60-556.000.
  Carre, Jean-Jacques; and Levrai, Roland, 4,673,223, Cl. 303-24.00C.
  Sauvee, Jean P.; Riquart, Christian; and Levrai, Roland, 4,709,550, Cl. 60-562.000.
  Sauvee, Jean-Paul; Levrai, Roland; and Riquart, Christian, 4,671,168, Cl. 91-530.000.

Levresse, Bernard; Hilt, Edmond; and Bujadoux, Karel, to Societe Chimique des Charbonnages. Continuous process for the manufacture of ethylene homopolymers or ethylene copolymers. 4,650,841, 3-17-87, Cl. 526-68.000.

Levushkin, Vladislav M.: *See—*
  Gurevich, Simkha B.; Konstantinov, Vladimir B.; Chernykh, Dmitry F.; Levushkin, Vladislav M.; Pisarevskaya, Svetlana A.; Cheberyak, Mikhail S.; and Latyshev, Alexandr I., 4,707,053, Cl. 350-3.600.

Levy, Alan: *See—*
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Levy, George D., to Beacon Electric, Inc. Lamp socket. 4,660,919, 4-28-87, Cl. 339-99.00L.

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- Pelley, Perry H., III; and Lewandowski, Alan, 4,691,300, Cl. 365-200.000.

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- Oliver, Larry R.; Hill, James D., Jr.; Lewis, Charles M.; Hollaway, Gerald C., Jr.; and Nelson, Jack, 4,690,665, Cl. 474-245.000.

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Lewis, Edward T., to Raytheon Company. Transmission-gate structured logic circuits. 4,710,649, 12-1-87, Cl. 307-451.000.
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  Mazin, Moshe; and Lewis, Edward T., 4,704,701, Cl. 364-788.000.
  Montrone, Dale L.; and Lewis, Edward T., 4,707,800, Cl. 364-788.000.
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  Siegfried, Rand, 4,648,853, Cl. 446-448.000.
Lewis, Gary C.: *See*—
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Lewis, Gary K., to Litton Systems, Inc. Tunable, dielectric-resonator-stabilized oscillator and method of tuning same. 4,639,690, 1-27-87, Cl. 331-96.000.
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Lewis, Henry G., Jr., to RCA Corporation. Signal offset circuitry for digital deghosting system. 4,651,212, 3-17-87, Cl. 358-167.000.
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  Campbell, Edward R., III; and Lewis, Henry G., Jr., 4,686,569, Cl. 358-167.000.
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Lewis, Henry W., and Romero, Jorge E., to Ingersoll Milling Machine Company, The. Composite tape placement apparatus with natural path generation means. 4,696,707, 9-29-87, Cl. 156-64.000.
Lewis, Henry W., and Van Roojen, Jan, to Ingersoll Milling Machine Company, The. Interchangeable spindle-head milling system. 4,709,465, 12-1-87, Cl. 29-568.000.
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Lewis, Ivor A. S., and Smith, David C., to VG Instruments Group Limited. Mass spectrometers. 4,647,772, 3-3-87, Cl. 250-288.000.
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Lewis, Jack L.: *See*—
  Wagner, Robert F., and Lewis, Jack L., 4,669,302, Cl. 73-172.000.
Lewis, James M.; Owens, Robert A., and Blakeney, Andrew J., to Petrarch Systems, Inc. Process of forming high contrast resist pattern in positive photoagent material using alkalai developer with fluorocarbon surfactant. 4,661,436, 4-28-87, Cl. 430-326.000.
Lewis, James M., and Owens, Robert A., to Petrarch Systems, Inc. Process of developing radiation imaged photoresist with alkaline developer solution including a carboxylated surfactant. 4,670,372, 6-2-87, Cl. 430-326.000.
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Lewis, Jay L., to Robertshaw Controls Company. Clock construction and method of making the same. 4,657,407, 4-14-87, Cl. 368-184.000.
Lewis, Jeffrey L.: *See*—
  Kerry, Peter R.; and Lewis, Jeffrey L., 4,681,228, Cl. 206-484.000.
Lewis, Jerry: *See*—
  Barry, Joseph, Jr.; Lewis, Jerry; Harris, Peter B.; and McHugh, William T., 4,689,108, Cl. 156-499.000.
Lewis, Jerry L., to Fluor Corporation. Autothermal production of synthesis gas. 4,666,680, 5-19-87, Cl. 422-191.000.
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Lewis, John C., Jr., to Tucel Industries Inc. Filament stock box. 4,693,519, 9-15-87, Cl. 300-7.000.
Lewis, John F., to STC plc. Transmission system. 4,663,755, 5-5-87, Cl. 370-60.000.
Lewis, John L., Jr.: *See*—
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  Fordyce, Douglas, 4,646,673, Cl. 116-34.00R.
Lewis, John W., and Lloyd-Jones, John G., to Reckitt & Colman Products Limited. Analgesic compositions. 4,661,492, 4-28-87, Cl. 514-282.000.
Lewis, John W.: *See*—
  Dighton, Gaylon L.; and Lewis, John W., 4,702,009, Cl. 33-126.600.
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Lewis, Julie M. Accouchement apparatus. 4,715,592, 12-29-87, Cl. 269-328.000.
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Lewis, Larry N., to General Electric Company. Heat curable organopolysiloxane compositions. 4,645,815, 2-24-87, Cl. 528-15.000.
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Lewis, Larry N., to General Electric Company. Hydrosilylation catalyst, method for making and use. 4,705,765, 11-10-87, Cl. 502-152.000.
Lewis, Larry N.: *See*—
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Lewis, Lindon L., to Ball Corporation. Levered optical mount. 4,712,444, 12-15-87, Cl. 74-479.000.
Lewis, Lindon L.: *See*—
  Stein, Samuel R.; Lewis, Lindon L., and Smith, Thomas E., 4,706,043, Cl. 331-94.100.
Lewis, Marvin C. Segmented boat. 4,693,203, 9-15-87, Cl. 114-353.000.
Lewis, Maurice W.: *See*—
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ty's Government of the Surface acoustic wave device with reflectors in inter-electrode location. 4,642,506, 2-10-87, Cl. 310-313.00D.

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Lewis, Paul A.: See—
  Saporito, Michael J.; Deleo, Salvatore J.; Lewis, Paul A.; Curtis, Albert E., III; D'Arienzo, Joseph; and Roller, David P., Jr., 4,663,727, Cl. 364-551.000.

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Lewis, Peter R.: See—
  Cowler, David J. W., and Lewis, Peter R., 4,711,420, Cl. 248-243.000.

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  Caspar, Hans-Peter, and Schutz, Gunter, 4,695,223, Cl. 415-90.000.
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  Contzen, Franz-Peter; Jokisch, Gerhard; and Vittori, Francesco, 4,647,011, Cl. 251-129.150.
  Deppisch, Gerd; Roll, Klaus; and Schuller, Karl-Heinz, 4,652,358, Cl. 204-298.000.
  Frings, Heinz; Kabelitz, Hans-Peter; and Ronthaler, Karl-Heinz, 4,639,199, Cl. 418-3.000.
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  Meier, Stefan; and Muller, Karl-Heinz, 4,670,651, Cl. 250-309.000.
  Reich, Gunter, 4,645,413, Cl. 415-72.000.
  Schmidt, Lothar, 4,640,136, Cl. 73-753.000.
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  - Greenwood, C. J., 4,641,548, Cl. 74-691.000.
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- Leyser, Larry J.: *See—*
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  - Greenaway, David L., 4,662,653, Cl. 283-91.000.
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Baker, Rodney G.; and Lubelski, Daniel P., 4,701,425, Cl. 501-70.000.

Barteck, Werner W.; and Gordon, Theodore H., 4,688,752, Cl. 249-85.000.

Callies, Gerald A.; Albach, Eberhard R.; Conour, John F.; and Herrington, Richard A., 4,661,381, Cl. 427-255.000.

Curtze, Edward W., 4,679,525, Cl. 118-500.000.

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Johnston, Norman W., 4,712,287, Cl. 29-469.000.

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Irwin, Charles F.; Karpusiewicz, William; and Liberati, Patricia, 4,711,748, Cl. 264-117.000.

Liberg, Lars-Olof, to Gotaverken Arendal AB. Device for the handling of liquids. 4,715,309, 12-29-87, Cl. 114-125.000.

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Hoelzer, John S.; Graefe, Richard J.; and Libert, James T., 4,714,977, Cl. 361-196.000.

Kampf, Julian C.; Reichard, Jeffrey A.; Libert, James T.; Curran, Earl J., Jr.; and Graefe, Richard J., 4,634,951, Cl. 318-778.000.

Profio, Mark V.; and Libert, James T., 4,647,825, Cl. 318-395.000.

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Stoll, Mark S., 4,682,727, Cl. 229-915.000.

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Thorud, Stanley R., 4,714,161, Cl. 206-387.000.

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Liberty Specialties, Inc.: *See*—

Steenblik, Richard A.; Phillips, Asa R.; Mamay, Daniel P.; Denson, Lawrence K.; Tucker, Richard A.; and Clark, Jimmy M., 4,685,718, Cl. 296-154.000.

Libeskind, Irwin C., to Du Pont de Nemours, E. I., and Company. Nonradiometric polynucleotide probes. 4,699,876, 10-13-87, Cl. 435-5.000.

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Libit, Jeanne E. Accounting guide. 4,674,192, 6-23-87, Cl. 33-477.000.

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Libre, Luigi: *See*—

Franchino, Domenico; Pantet, Ettore; Libre, Luigi; and Valperga, Gaspare, 4,694,273, Cl. 340-58.000.

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- LiCaust, Joseph: *See*—
  - Kurtz, Leonard D.; and LiCaust, Joseph, 4,648,874, Cl 604-321.000.
- LiCaust, Joseph M.: *See*—
  - Kurtz, Leonard D., and LiCaust, Joseph M., 4,675,011, Cl 604-320.000.
- "Licencia" Talalmanyokat Ertekesito Es Innovacios Kulkereskedelmi Vallalat: *See*—
  - Zagyvai, Istvan; Gal, Andras; Merai, Jozsef; and Szamosi, Daniel, 4,675,114, Cl 210-666.000.
- Licentia Patent-Verwaltungs-GmbH: *See*—
  - Bartels, Stefan, 4,672,333, Cl 333-1.100.
  - Barth, Rudiger, 4,638,389, Cl 360-72.100.
  - Dambkes, Heinrich; Herzog, Hans-J.; and Jorke, Helmut, 4,710,788, Cl 357-22.000.
  - Dicks, Hermann, 4,677,643, Cl 373-105.000.
  - Forster, Rudolf; Weber, Suso; and Pyka, Hans-Jurgen, 4,713,353, Cl 437-2.000.
  - Frank, Werner, 4,634,111, Cl 271-34.000.
  - Frank, Werner, 4,657,241, Cl 271-305.000.
  - Frank, Werner, 4,691,913, Cl 271-34.000.
  - George, Ulf; Rochau, Erwin; Merk, Hans; and Behnke, Joachim, 4,661,612, Cl 556-450.000.
  - Geyer, Arthur; Kuisl, Max; Pfeiffer, Eugen; Roese, Helmut; and Klein, Werner, 4,636,364, Cl 422-162.000.
  - Gillmann, Hanno, 4,691,912, Cl 271-10.000.
  - Goldkuhle, Gerhard, 4,672,681, Cl 382-47.000.
  - Hersener, Jurgen; Herzog, Hans-Joest; and Strohm, Karl, 4,647,517, Cl 430-5.000.
  - Holpp, Wolfgang, 4,638,267, Cl 333-1.100.
  - Jehle, Franz, 4,635,880, Cl 244-3.140.
  - Jehle, Franz; and Meinel, Holger, 4,695,842, Cl 342-59.000.
  - Kuhrdt, Gunther, 4,682,172, Cl 342-15.000.
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  - Kuisl, Max, 4,650,693, Cl 427-27.000.
  - Maier, Horst; and Schulz, Max, 4,661,168, Cl 148-1.500.
  - Marschall, Peter; Schlosser, Ewald; and Vollmer, Hans-Peter, 4,692,926, Cl 372-46.000.
  - Minker, Manfred; and Rohling, Hermann, 4,649,394, Cl 342-94.000.
  - Nothaft, Peter, 4,652,901, Cl 357-40.000.
  - Ostwald, Robert; and Voit, Gabriele, 4,692,356, Cl 427-304.000.
  - Rogowsky, York, 4,649,466, Cl 363-35.000.
  - Schmitz, Walter; and Koch, Jurgen, 4,680,074, Cl 156-291.000.
  - Senske, Wilhelm; Herkert, Roland; Marschall, Norbert; and Greeb, Karl-Heinrich, 4,713,311, Cl 430-127.000.
  - Straube, Axel; and Loos, Hans, 4,633,960, Cl 244-134.00D.
  - Wulff, Hans-Jurgen, 4,691,184, Cl 337-49.000.
  - Zottnik, Edmund, 4,638,289, Cl 340-52.00H.
- Lichnofsky, Rudiger: *See*—
  - Cigdem, Saffet; Lichnofsky, Rudiger; and Martin, Harry, 4,683,998, Cl 192-58.00C.
- Licht, Robert H.; and Holden, Robert L., to Norton Company. Resin bonded grinding wheels with fillers. 4,657,563, 4-14-87, Cl 51-308.000.
- Lichtblau, Leo, to Klockner-Humboldt-Deutz AG. Helical spring forming cooling channel around liquid-cooled cylinder. 4,667,635, 5-26-87, Cl 123-41.800.
- Lichtel, Richard L., Jr.: *See*—
  - Matlock, Dyer A.; Lichtel, Richard L., Jr.; and Pearce, Lawrence G., 4,702,000, Cl 437-63.000.
- Lichtenberg, Norman B.; and Chaczyk, Adam W., to Acco Babcock Inc. Control cable conduit length adjustment device. 4,694,706, 9-22-87, Cl 74-501.50R.
- Lichtenberg, Wolfgang: *See*—
  - Abel, Joachim; Neuhaus, Detlev; Hesse, Karl-Heinz; Muller, Michael; and Lichtenberg, Wolfgang, 4,665,362, Cl 324-208.000.
- Lichtenthaler, Werner: *See*—
  - Schwarz, Hans-Dieter; Pietzarka, Friedrich W.; Lichtenthaler, Werner; and Muhlhaus, Ludwig, 4,681,157, Cl 165-145.000.
- Lichter, Robert J. Safe. 4,712,490, 12-15-87, Cl 109-69.000.
- Lichter, Robert J. Safe construction and rebar coupling device for use therewith. 4,715,297, 12-29-87, Cl 109-50.000.
- Lichti, Robert, to Metals, Ltd. Device for moving objects in a closed container. 4,687,400, 8-18-87, Cl 414-4.000.
- Lichti, Robert D., to Metal Alloys, Inc. System for automatically consolidating a plurality of bodies formed of powder. 4,634,572, 1-6-87, Cl 419-44.000.
- Lichti, Wayne P.; and Hofstatter, Alfred F., to Metals Ltd. Method of object consolidation employing graphite particulate. 4,640,711, 2-3-87, Cl 75-248.000.
- Lichtin, Norman N.: *See*—
  - Khader, Mahmoud M.; and Lichtin, Norman N., 4,703,030, Cl 502-338.000.
- Lichtman, Philip R.: *See*—
  - Honkanen, George P.; Strahan, John C.; and Lichtman, Philip R., 4,655,752, Cl 604-256.000.
  - Richards, William D.; and Lichtman, Philip R., 4,669,473, Cl 128-334.00C.
- Lichtman, William M. Scleral ring. 4,652,099, 3-24-87, Cl 351-162.000.
- Licinvest AG: *See*—
  - Ackeret, Peter, 4,674,209, Cl 40-513.000.
  - Ackeret, Peter, 4,691,456, Cl 40-10.00R.
- Lickus, Leonard J.: *See*—
  - Heisner, Douglas L.; Zahlit, Wayne A.; and Lickus, Leonard J., 4,653,665, Cl 221-11.000.
- Lico, Inc.: *See*—
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- Lid-Claw Inc.: *See*—
  - Skillern, Robert M., 4,658,455, Cl 7-105.000.
- Liddiard, Kevin, to Commonwealth of Australia, The. Focal plane scanning device. 4,708,420, 11-24-87, Cl 350-6.600.
- Liden, Hadar, to Gotaverken Arendal AB. Device for the storing of oil. 4,685,409, 8-11-87, Cl 114-74.00R.
- Lidholt, Lars R. Method for connecting an optical fiber and connecting member and mounting means for carrying out said method. 4,666,239, 5-19-87, Cl 350-96.200.
- Lidkopings Mekaniska Verkstads AB: *See*—
  - Larsson, Sture, 4,658,800, Cl 125-11.0CD.
- Lidman, Leonida L. M. Coconut fruit(s) flavored brandy. 4,680,179, 7-14-87, Cl 426-15.000.
- Lidorenko, Nikolai S.; Gorun, Viktor T.; Muchnik, Grigory F.; Karchev, Zia R.; Shteinberg, Alexandr N.; Lev, Mikhail B.; Moiseev, Viktor I.; Schegolev, Igor S.; Ilin, Vladimir M.; and Smirnov, Igor I. Gas-permeable membrane, and blood oxygenator based on gas permeable membrane. 4,666,668, 5-19-87, Cl 422-48.000.
- Lidow, Alexander; and Herman, Thomas, to International Rectifier Corporation. High power MOSFET with low on-resistance and high breakdown voltage. 4,642,666, 2-10-87, Cl 357-23.400.
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- Lidyoff, William W.: *See*—
  - Wetzel, Robert H.; and Lidyoff, William W., 4,676,238, Cl 128-204.260.
- Lie, Zong Z. Lubricating oil input system. 4,697,553, 10-6-87, Cl 123-73.0AD.
- Lieb, Christian. Device for removing particulates from a gas stream. 4,662,910, 5-5-87, Cl 55-276.000.
- Lieb, M. Jeremy; and Collis, Raymond D., to Outboard Marine Corporation. High force release and reset mechanism for supporting a structure from a boat hull. 4,682,560, 7-28-87, Cl 114-343.000.
- Liebard, Alain. Solar water heater for heating and storing water through direct passage and its manufacturing process. 4,674,478, 6-23-87, Cl 126-443.000.
- Liebe, Joerg: *See*—
  - Merger, Franz; and Liebe, Joerg, 4,672,137, Cl 560-25.000.
- Liebe, Johan, to U.S. Philips Corporation. High pressure discharge lamp with arc tube heat shield. 4,651,048, 3-17-87, Cl 313-25.000.
- Liebe, Werner: *See*—
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- Liebel-Flarsheim Company: *See*—
  - Goethel, James H., 4,695,271, Cl 604-49.000.
  - Langer, Alois A.; and Rinne, Albert W., 4,650,465, Cl 604-65.000.
- Liebel, Henry L., to Signode Paper Products Company. Slip sheet. 4,708,247, 11-24-87, Cl 206-501.000.
- Liebel, Werner; Antesberger, Peter; and Einberger, Peter, to Glonner Electronic GmbH. Circuit for producing a video signal representing a measuring signal. 4,700,227, 10-13-87, Cl 358-139.000.
- Liebenberg, Roelof W.: *See*—
  - Drewes, Siegfrid; and Liebenberg, Roelof W., 4,652,636, Cl 536-4.100.
  - Drewes, Siegfried; and Liebenberg, Roelof W., 4,644,085, Cl 568-729.000.
- Liebenow, Walter: *See*—
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- Lieber, Clement: *See*—
  - Swendson, David L.; Elson, Edward E.; Lieber, Clement; and Rold, Michael D., 4,651,751, Cl 128-786.000.
- Lieber, Glen L.: *See*—
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- Lieberg, Dennis M., to Construction Forms, Inc. High pressure concrete line coupling clamp with limit adjust apparatus. 4,643,460, 2-17-87, Cl 285-112.000.
- Lieberman, Barry R.: *See*—
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- Lieberman, Benjamin. Method for processing coal preparation plant washings for elimination of sludge ponds. 4,695,324, 9-22-87, Cl 106-96.000.
- Lieberman, Burton E.: *See*—
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- Lieberman, Ephraim: *See*—
  - Bordoni, Maurice E.; and Lieberman, Ephraim, 4,703,753, Cl 128-200.140.
- Lieberman, Robert A.: *See*—
  - Forrest, Stephen R.; Lieberman, Robert A.; and Panock, Richard L., 4,709,413, Cl 455-606.000.
- Liebermann, Howard H., to Allied Corporation. Casting in a thermally-induced low density atmosphere. 4,664,176, 5-12-87, Cl 164-463.000.
- Liebermann, Howard H., to Allied Corporation. Casting in a low density atmosphere. 4,676,298, 6-30-87, Cl 164-463.000.
- Liebermann, Howard H.: *See*—
  - Bose, Debasis; and Liebermann, Howard H., 4,654,275, Cl 428-606.000.

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- eroth, Dieter: *See—*
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- ert Corporation: *See—*
  - Gephart, Don A.; and Powell, Jeffrey M., 4,709,318, Cl. 363-37.000.
  - Powell, Jeffrey M., 4,684,875, Cl. 323-204.000.
- es, Sidney, Jr.: *See—*
  - Birk, John; Breu, Heinz; Gong, William; Morehouse, Charles C.; and Liebes, Sidney, Jr., 4,705,081, Cl. 140-147.000.
- hart, Dana: *See—*
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  - Lerner, Bernard; Liebhart, Dana; and Wehrmann, Rick S., 4,715,092, Cl. 17-52.000.
- herr-Hydraulikbagger GmbH: *See—*
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  - Becker, Rudolf, 4,660,731, Cl. 212-175.000.
- herr-Werk Telfs Ges. m.b.H.: *See—*
  - Riml, Peter, 4,681,376, Cl. 305-10.000.
  - Riml, Peter, 4,690,231, Cl. 180-6.480.
- big, Heinrich. Positive arrangement for fastening a dowel. 4,690,597, -1-87, Cl. 411-32.000.
- big, Lothar: *See—*
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- big, Winfried: *See—*
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- ebl, Friedrich: *See—*
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- ebl, Norbert: *See—*
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- ebl, Rudolf; and Bosshard, Ernst, to EgoKiefer AG. Apparatus for making a flexible link belt. 4,705,469, 11-10-87, Cl. 425-117.000.
- ebler, Ralf; Munzer, Manfred; Quis, Peter; and Legierse, Petrus E. J., to Rohm GmbH. Wet metallization of acrylic resin articles. 4,663,199, 5-5-87, Cl. 427-304.000.
- ebler, Ralf; and Albrecht, Klaus, to Rohm GmbH. Molding compositions for optically readable information-storage media. 4,680,359, 7-14-87, Cl. 526-309.000.
- ebler, Ralf: *See—*
  - Besecke, Siegmund; Liebler, Ralf; Hohage, Heinz-Juergen; and Schroeder, Guenter, 4,652,656, Cl. 548-261.000.
- iebman, Dennis: *See—*
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- iebmann, John M.; and Anoszko, Thomas J., to Research Products Corporation. Wall outlet box for central vacuum cleaning system. 4,688,596, 8-25-87, Cl. 137-360.000.
- iebmann, Vern L.: *See—*
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- iechti, Hansruedi: *See—*
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- iechti, Peter, to Ciba-Geigy Corporation. Azo dyes containing aralkyl-nitrophenyl diazo components. 4,704,452, 11-3-87, Cl. 534-772.000.
- ied, Thomas: *See—*
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- ieder, Bernhard: *See—*
  - Ulrichs, Klaus; Hibbel, Joseph; Schmidt, Volkmar; Lieder, Bernhard; Scheve, Heinrich; Schulze-Frenking, Burchard; Hofs, Wolfgang; and Nottebohm, Jurgen, 4,699,773, Cl. 423-396.000.
- iedl, Kurt: *See—*
  - Himmetsberger, Alois; Pavlovec, Radko; Wittmann, Heinz; Wuerthner, Hubert; Szasz, Tibor; Liedl, Kurt; and Erdei, Roland, 4,681,339, Cl. 280-633.000.
- Liedle, William O. Adjustable reusable adapter system for temporary electric service. 4,712,762, 12-15-87, Cl. 248-533.000.
- Liedloff, Hanns-Jorg, to EMS-Inventa AG. Preparation of block polyetherester amide from carboxy terminated polyamide and dihydroxy polyether with tin compound catalyst. 4,689,393, 8-25-87, Cl. 528-283.000.
- Liedloff, Manfred: *See—*
  - Maack, Werner; Gerst, Michael; and Liedloff, Manfred, 4,651,413, Cl. 29-759.000.
- Liedtke, Frieder: *See—*
  - Bodensieck, Hans-Rudolf; Dobler, Karl-Otto; Hanel, Horst; Kohler, Kurt; Liedtke, Frieder; and Seliger, Siegfried, 4,658,340, Cl. 362-267.000.
- Liedtke, Kurt: *See—*
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  - Focke, Heinz; and Liedtke, Kurt, 4,715,497, Cl. 206-254.000.
- Liedtke, Raymond J.: *See—*
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- Liefer, Allen C.; Loewen, Gilbert L.; and Magathan, Paul J. Modular floor panel system. 4,709,519, 12-1-87, Cl. 52-98.000.
- Lieffring, Gordon V.: *See—*
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- Liegel, Reinald D., to Hein-Werner Corporation. Convertible tool tray and support stand for mechanics tool. 4,715,573, 12-29-87, Cl. 248-129.000.
- Liegel, Reinald D.; and Ballard, James G., to Hein-Werner, Inc. High speed hydraulic fluid venting valve in a hydraulic fluid pump. 4,715,789, 12-29-87, Cl. 417-253.000.
- Liegl, Werner: *See—*
  - Brandl, Hans; and Liegl, Werner, 4,694,496, Cl. 381-51.000.
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  - Capellari, Elio; Monteferrario, Luciano; and Wullschleger, Carlo, 4,675,793, Cl. 362-66.000.
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Lin, Hong Yue. Method and apparatus evaluating auditory distortions of an audio system. 4,706,290, 11-10-87, Cl. 381-58.000.

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Lin, Leo: *See—*

Ben-Bassat, Arie; Dorin, Glenn; Bauer, Keith; and Lin, Le 4,656,132, Cl. 435-68.000.

Lin, Leo S.; and Yamamoto, Ralph, to Cetus Corporation. Purification method for tumor necrosis factor. 4,677,197, 6-30-87, Cl. 530-417.00

Lin, Leo S.: *See—*

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Klemarczyk, Philip; Nakos, Steven T.; and Lin, Samuel Q. S., 4,666,953, Cl. 522-34.000.

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Lin, Santa H. C.; and Cho, Myong J., to Ralston Purina Company. Process for the production of a mineral fortified protein composition. 4,642,238, 2-10-87, Cl. 426-74.000.

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Roche, Joseph R.; and Lin, Shaw-Wen, 4,708,513, Cl. 403-361.000

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Lin, Steve: *See—*

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Grone, Horst D., 4,702,377, Cl. 206-557.000.
Ted T. Multiple-pole stepping motor. 4,638,195, 1-20-87, Cl. 310-.00R.
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Taikawa, Takashi, 4,647,936, Cl. 343-702.000.
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Ritchey, Mary B.; Cano, Francis R.; O'Hara, Gerald J.; English, James D.; and Lin, Wenlu, 4,686,102, Cl. 424-92.000.
, William C., to General Motors Corporation. Anti-lock brake control system. 4,653,816, 3-31-87, Cl. 303-106.000.
, Yang-I: *See—*
Bitha, Panayota; Child, Ralph G.; Hlavka, Joseph J.; and Lin, Yang-I, 4,665,210, Cl. 556-137.000.
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n, Yi-Ping: *See—*
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n, Ying-wei, to Xerox Corporation. Development apparatus with paper debris remover. 4,639,115, 1-27-87, Cl. 355-3.0DD.
n, Ying-wei, to Xerox Corporation. Cleaning apparatus for charge retentive surface. 4,705,387, 11-10-87, Cl. 355-15.000.
n, Yui-Chen. Universal couch. 4,694,517, 9-22-87, Cl. 5-114.000.
n, Yung-Ho: *See—*
Autry, James C.; and Lin, Yung-Ho, 4,662,088, Cl. 36-105.000.
n, Yung S. Push button type combination lock. 4,671,084, 6-9-87, Cl. 70-25.000.
n, Yung-Shing: *See—*
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inan, Carmen S.: *See—*
Arechaga, Sabastian J.; Granell, Jose O. O.; Linan, Carmen S.; Vallejo, Alfonso P.; and Gabarro, Jose A. P., 4,690,945, Cl. 514-448.000.
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inberg, Waldemar: *See—*
Bartusel, K. Rudolf; Diederen, Werner; Liepelt, Eberhard; and Linberg, Waldemar, 4,661,142, Cl. 65-348.000.
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Wenig, Ernst; Gaesay, Lorant; and Lincke, Paul, 4,649,965, Cl. 139-439.000.
inco Holland Engineering B.V.: *See—*
Tieleman, Edward J., 4,683,616, Cl. 17-11.000.
Lincoln, Andrew J.; Osborn, Robert; and Dreher, Geoffrey A., to Minolta Camera Kabushiki Kaisha. Strip map memory controller. 4,646,259, 2-24-87, Cl. 364-900.000.
Lincoln Electric Company, The: *See—*
Melfi, Teresa; Young, Ronald F.; and Crockett, Dennis D., 4,675,056, Cl. 148-24.000.
Weaver, Robert J.; Young, Ronald F.; and Crockett, Dennis D., 4,683,011, Cl. 148-26.000.
Lincoln Foodservice Products, Inc.: *See—*
Bratton, Ronald E.; Gigandet, Richard W.; Henke, Mitchell C.; Kaminski, Daniel S.; and Wibel, Michelle A., 4,701,340, Cl. 426-511.000.
Gorsuch, Roger K.; Bell, Gordon D.; Henke, Mitchell C.; Wibel, Michelle; Bratton, Ronald E.; and Lee, Effie J., 4,676,151, Cl. 99-450.000.
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Lincoln, Jay P.; Owens, William M.; and Ferguson, Douglas M. Plastic dispensing pack for surgical sutures. 4,699,271, 10-13-87, Cl. 206-63.300.
Lincoln, John B., to Ocean Engineering Systems, Pty., Ltd. Apparatus and method for trenching subsea pipelines. 4,714,378, 12-22-87, Cl. 405-163.000.
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Sullivan, Sean; and Stutz, Glenn E., 4,643,569, Cl. 356-237.000.
Lincoln, Phillip A.: *See—*
Van Antwerp, William P.; and Lincoln, Phillip A., 4,642,134, Cl. 75-101.00R.
Lind, Arne: *See—*
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Lind, Bjorn, to SKF Nova AB. Seal with pressure fluid feed. 4,706,966, 11-17-87, Cl. 277-27.000.
Lind, Earl R.; and Franklin, Ronald A., to Raytheon Company. Sonar heave compensation system. 4,697,253, 9-29-87, Cl. 367-12.000.
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Lind, Leif, to F.L. Smidth & Co. Method of controlling operation of an electrostatic precipitator. 4,659,342, 4-21-87, Cl. 55-2.000.
Lind, Richard C.: *See—*
O'Meara, Thomas R.; and Lind, Richard C., 4,715,689, Cl. 350-354.000.
Lind, Robert J.: *See—*
Kwok, Kui-Chiu; and Lind, Robert J., 4,660,774, Cl. 239-708.000.
Mommsen, Gordon V.; Fender, Norman N.; Karwoski, Stanley G.; Scherer, William C.; and Lind, Robert J., 4,679,734, Cl. 239-692.000.
Lindackers, Rudolf: *See—*
Paetzel, Herbert K.; Lindackers, Rudolf; and Grutesen, Lothar H. M., 4,671,321, Cl. 137-625.300.
Lindae, Gerhard; Perthus, Peter; and Rein, Heinz, to Robert Bosch GmbH. Headlamp, particularly of rectangular configuration, for use as antidazzle lamp on motor vehicles. 4,697,225, 9-29-87, Cl. 362-61.000.
Lindae, Gerhard: *See—*
Glaser, Gerhard; Lindae, Gerhard; Perthus, Peter; and Rein, Heinz, 4,701,834, Cl. 362-307.000.
Lindahl, Anthony T.: *See—*
Mills, David; Lindahl, Anthony T.; and Kington, Alan D., 4,637,449, Cl. 164-132.000.
Lindahl, Charles B.: *See—*
King, James P.; and Lindahl, Charles B., 4,675,168, Cl. 423-561.00R.
Lindahl, Lars: *See—*
Almqvist, Christer; Carlsson, Bengt; and Lindahl, Lars, 4,635,714, Cl. 165-167.000.
Almqvist, Christer; and Lindahl, Lars, 4,646,821, Cl. 165-166.000.
Lindahl, Mats: *See—*
Porath, Jerker; and Lindahl, Mats, 4,677,027, Cl. 428-407.000.
Lindahl, Thomas G.: *See—*
Gray, Robert R.; and Lindahl, Thomas G., 4,640,682, Cl. 432-58.000.
Gray, Robert R.; and Lindahl, Thomas G., 4,701,126, Cl. 432-58.000.
Lindauer Dornier Gesellschaft mbH: *See—*
Breyer, Werner, 4,664,156, Cl. 139-1.00R.
Dornier, Peter; and Krumm, Valentin, 4,655,263, Cl. 139-446.000.
Gehring, Fritz, 4,641,688, Cl. 139-450.000.
Gehring, Fritz; Roth, Siegfried; and Semrau, Hans-Juergen, 4,690,177, Cl. 139-449.000.
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Langer, Rudolf, 4,639,984, Cl. 26-89.000.
Menzel, Josef, 4,699,183, Cl. 139-449.000.
Lindberg, Charles A., deceased (by Lindberg, Verda, executrix), to Datacopy Corporation. Electronic camera employing a solid-state image sensor. 4,667,255, 5-19-87, Cl. 358-293.000.
Lindberg, Eric T., to Atlas Copco Aktiebolag. Control method and control device for a down-the-hole rock drill. 4,653,593, 3-31-87, Cl. 173-1.000.
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Joseph, James R.; Wesdock, James F.; Lerch, Allen; Chollock, Ronald; Waugaman, John; Lindberg, Glenn; Wymer, James R.; and Brennen, Brad, 4,655,349, Cl. 209-524.000.
Lindberg, John E., to Combustion Control Developments, Ltd. Combustion control system. 4,696,279, 9-29-87, Cl. 123-570.000.
Lindberg, Per L.: *See—*
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Lindberg, Terry D.: *See—*
Gelardi, Paul J.; Lindberg, Terry D.; and Snyder, Connie M., 4,662,579, Cl. 242-199.000.
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  Becker, Hans; Heisel, Michael; and Baur, Karl, 4,664,903, Cl. 423-573.00R.
  Becker, Hans; and Weiss, Horst, 4,670,027, Cl. 55-48.000.
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  Krusche, Alfred, 4,665,699, Cl. 60-452.000.
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tering valve. 4,714,237, 12-22-87, Cl. 251-330.000.

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A.; and Lindgren, Douglas L., 4,686,006, Cl. 162-336.000.

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Elliott, Roger A.; and Lindquist, Wayne V., 4,692,918, Cl. 370-85.000.

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  - Malson, Tomas; and Lindqvist, Bengt L., 4,716,154, Cl. 514-54.000.
- Lindqvist, Gustav: *See—*
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- Lindsay, John W.: *See—*
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- Lindsey, Donald W.: *See—*
  - Fry, Slaton E.; Childs, Jerry D.; Brothers, Lance E.; and Lindsey, Donald W., 4,676,317, Cl. 166-293.000.
  - Fry, Slaton E.; Childs, Jerry D.; Brothers, Lance E.; and Lindsey, Donald W., 4,703,801, Cl. 166-293.000.
- Lindsey, Ernest J. Laser hand piece, for use in ophthalmic, plastic, and ear, nose, and throat surgery. 4,671,273, 6-9-87, Cl. 128-303.100.
- Lindsey, Frank; and Walkley, Charles, to Conair Corporation. Package assembly. 4,669,610, 6-2-87, Cl. 206-320.000.
- Lindsey, Hiram E., Jr.; and Dockins, Ray R., Jr., to MWL Tool Company. Wiper plug cementing system and method of use thereof. 4,671,358, 6-9-87, Cl. 166-291.000.
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  - Dockins, Roy R., Jr.; and Lindsey, Hiram E., Jr., 4,712,615, Cl. 166-208.000.
- Lindsey, James N., to Avondale Mills. Textile and method of manufacture. 4,712,290, 12-15-87, Cl. 28-178.000.
- Lindsey, John S.: *See—*
  - Henslee, Walter W.; Morrow, Stanley J.; and Lindsey, John S., 4,648,954, Cl. 204-243.00R.
- Lindsey, Keith E., to Lindsey Manufacturing Company. Strain insulator with arcing horns. 4,709,125, 11-24-87, Cl. 174-140.00S.
- Lindsey, Kelly D.: *See—*
  - Holan, Robert J.; and Lindsey, Kelly D., 4,637,276, Cl. 74-713.000.
- Lindsey Manufacturing Company: *See—*
  - Lindsey, Keith E., 4,709,125, Cl. 174-140.00S.
- Lindsey, Marvin F., to Dekalb-Pfizer Genetics. Inbred corn line. 4,654,466, 3-31-87, Cl. 800-1.000.
- Lindsey, Steven M.: *See—*
  - Beasley, James E.; and Lindsey, Steven M., 4,698,521, Cl. 307-270.000.
- Lindsey, Thomas O.; and Zavy, Michael T., to SmithKline Beckman Corporation. Animal feed methods and compositions using cysteamine. 4,711,897, 12-8-87, Cl. 514-665.000.
- Lindsey, Thomas O.: *See—*
  - Chow, Alfred W.; Lindsey, Thomas O.; and Sanders, Winfred J., 4,668,672, Cl. 514-212.000.
- Lindsey, Travis C. Fire-resistant electrical junction boxes and method of manufacture. 4,667,840, 5-26-87, Cl. 220-3.200.
- Lindskog, Jon L.: *See—*
  - Johnson, Jeffrey M.; Lindskog, Jon L.; and Schoenig, Darrell A., 4,671,479, Cl. 248-173.000.
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- Lindsley, John F.; Goldstein, Marvin S.; and Quayle, William H., to American Cyanamid Company. Catalyst for hydroconversion of heavy oils and method of making the catalyst. 4,652,545, 3-24-87, Cl. 502-255.000.
- Lindsley, Warren F. B.: *See—*
  - Mineck, Fred. 4,635,995, Cl. 296-97.00G.
- Lindstadt, Klaus; Halssig, Andreas; Maier, Dietmar; and Scholz, Stefan, to Diehl GmbH & Co. Re-securable mine. 4,712,480, 12-15-87, Cl. 102-427.000.
- Lindstam, Goran: *See—*
  - Wallter, Gote; and Lindstam, Goran, 4,676,049, Cl. 53-433.000.
- Lindstol, Anders, deceased (by Lindstol, Eva, administratrix), to Ecodyne Limited. Lamella gravity separator. 4,681,683, 7-21-87, Cl. 210-521.000.
- Lindstol, Eva, administratrix: *See—*
  - Lindstol, Anders, deceased, 4,681,683, Cl. 210-521.000.
- Lindstrom, Alf L., to Sunds Defibrator Aktiebolag. Pulp treatment apparatus having lowerable vacuum containers to facilitate removal thereof. 4,657,637, 4-14-87, Cl. 162-272.000.
- Lindstrom, Bengt O.: *See—*
  - Rogstadius, John F. I.; Lindstrom, Bengt O.; and Persson, Svens A. R., 4,666,243, Cl. 350-96.210.
- Lindstrom, Donald E.; and Setzer, David T., to Reynolds Metals Company. Air conveyor. 4,710,068, 12-1-87, Cl. 406-88.000.
- Lindstrom, Fred B., to AB Electrolux. Hand-actuated engine starter. 4,638,775, 1-27-87, Cl. 123-185.00G.
- Lindstrom, Harold R.; and Haverdink, Virgil D., to Deere & Company. Opener assembly including a compact, arc-shaped opener. 4,633,791, 1-6-87, Cl. 111-86.000.
- Lindstrom, Kjell O. T.: *See—*
  - Benthin, Morten; Dahl, Philip I.; Genaser, Gerhard M.; and Lindstrom, Kjell O. T., 4,660,564, Cl. 128-660.000.
- Lindstrom, Merlin R.; and Mark, Harold W., to Phillips Petroleum Company. Inhibiting corrosion: benzylsulfinylacetic acid or benzylsulfonylacetic acid. 4,637,833, 1-20-87, Cl. 106-14.130.
- Lindstrom, Merlin R.; and Louthan, Rector P., to Phillips Petroleum Company. Inhibiting corrosion. 4,670,163, 6-2-87, Cl. 252-8.555.
- Lindstrom, Merlin R.: *See—*
  - Louthan, Rector P.; Lindstrom, Merlin R.; Baldwin, Bernard A.; and Macdonell, Gary D., 4,659,490, Cl. 252-47.500.
- Lindstrom, Michael J., to Eastman Kodak Company. Negative-working, non-swelling resist. 4,668,608, 5-26-87, Cl. 430-292.000.
- Lindstrom, Michael J.: *See—*
  - DoMinh, Thap; Fleming, James C.; and Lindstrom, Michael J., 4,684,599, Cl. 430-270.000.
- Lindstrom, Mikko: *See—*
  - Taijonlahti, Jorma; and Lindstrom, Mikko, 4,658,682, Cl. 83-13.000.
- Lindstrom, Nils A. E.: *See—*
  - Ericsson, Sylve J. D.; and Lindstrom, Nils A. E., 4,669,377, Cl. 101-114.000.
- Lindstrom, Richard L.; Doughman, Donald J.; and Skelnik, Debra. Corneal storage system. 4,695,536, 9-22-87, Cl. 435-1.000.
- Lindstrom, Richard L.; and Skelnik, Debra L. Irrigation solution. 4,696,917, 9-29-87, Cl. 514-54.000.
- Lindstrom, Richard L. Intraocular lens. 4,711,638, 12-8-87, Cl. 623-6.000.
- Lindstrom, Richard L.; and Skelnik, Debra L. Viscoelastic solution. 4,713,375, 12-15-87, Cl. 514-57.000.
- Lindstrom, Richard L. Epicorneal lens. 4,715,858, 12-29-87, Cl. 623-5.000.
- Lindstrom, Robert O., to SCM Corporation. Tamper evidencing plastic can top. 4,658,980, 4-21-87, Cl. 220-214.000.
- Lindstrom, Robert O.: *See—*
  - Kozlowski, Thomas A.; Lindstrom, Robert O.; Loughrin, Thomas D.; and Baka, Kathleen J., 4,714,181, Cl. 222-480.000.
- Lindstrom, Robert W., to Prototech Company. Electrocatalytic ga diffusion electrode employing thin carbon cloth layer. 4,647,35 3-3-87, Cl. 204-294.000.
- Lindtjorn, Olav: *See—*
  - Haukjem, Marten; and Lindtjorn, Olav, 4,660,184, Cl. 367-16.000.
- Line, William F.: *See—*
  - Lowery, Charles E.; Duncombe, George R.; Line, William F.; and Chicoye, Etzer, 4,666,718, Cl. 426-13.000.
- Lineberry, Cletus E.; Buckner, John G.; and Harris, Jimmy W. Brick cutting and handling apparatus having movable wire bank cutter assembly. 4,646,598, 3-3-87, Cl. 83-56.000.
- Lines West: *See—*
  - Miesen, Michael P., 4,674,764, Cl. 280-604.000.
- Linfield, Warner M.: *See—*
  - Bistline, Raymond G., Jr.; Maurer, Elmer W.; Smith, Frank D.; and Linfield, Warner M., 4,663,353, Cl. 514-617.000.
- Ling, Daniel T.; Oklobdzija, Vojin G.; and Raver, Norman, to International Business Machines Corporation. Consistent precharge circuit for cascode voltage switch logic. 4,700,086, 10-13-87, Cl. 307-443.00
- Ling, Daniel T.: *See—*
  - Chung, Paul W.; Matick, Richard E.; and Ling, Daniel T., 4,649,516, Cl. 364-900.000.
  - Dill, Frederick H.; Ling, Daniel T.; Matick, Richard E.; and McBride, Dennis J., 4,667,305, Cl. 364-900.000.
  - Matick, Richard E.; Ling, Daniel T.; and Dill, Frederick H., 4,663,729, Cl. 364-900.000.
  - Oklobdzija, Vojin G.; and Ling, Daniel T., 4,714,99 C 364-200.000.
- Ling Dynamic Systems Limited: *See—*
  - Emerson, Andrew C.; and Foster, Stephen A., 4,641,050, C 310-27.000.
- Ling Electronics, Inc.: *See—*
  - Butts, Gary; Sydo, Lukas; and Rossi, Victor L., 4,678,347, C 384-43.000.
  - Butts, Gary, 4,715,229, Cl. 73-663.000.
  - Pauly, Wayne, 4,700,148, Cl. 331-154.000.

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Ling, Hung C.; and Yan, Man F., to AT&T Technologies, Inc.; and Bell Telephone Laboratories, Inc. Ceramic compositions and devices. 4,638,401, 1-20-87, Cl. 361-321.000.

Ling, Tommy; and Stendahl, Kjell E., to Boliden Aktiebolag. Method and apparatus for distributing water purifying chemicals. 4,663,055, 5-5-87, Cl. 210-738.000.

Lingaraju, Bhartoor H.; and Kuntz, Robert J., to Hubbell-Bell Inc. Quick change die retention apparatus. 4,698,894, 10-13-87, Cl. 29-464.000.

Lingenfelter, Dean E., to Lockheed Missiles & Space Company, Inc. Radiation gauge for determining weight percentages of the constituents of graphite-epoxy composite materials. 4,668,867, 5-26-87, Cl. 250-358.100.

Lingenfelter, Thomas A.: *See*—
  Hansen, Harmon R.; and Lingenfelter, Thomas A., 4,683,831, Cl. 128-204.260.

Linger, Claude J., to International Business Machines Corp. Method and apparatus for automatically aligning an object with respect to a reference pattern. 4,672,676, 6-9-87, Cl. 382-8.000.

Lingertat, Helmut: *See*—
  Buljan, Sergei-Tomislav V.; Lingertat, Helmut; Baldoni, J. Gary; and Sarin, Vinod K., 4,698,266, Cl. 428-457.000.
  Buljan, Sergei-Tomislav V.; Lingertat, Helmut; Baldoni, J. Gary, II; and Sarin, Vinod K., 4,708,037, Cl. 82-1.00C.

Lingl Corporation: *See*—
  Weik, George, 4,698,227, Cl. 425-296.000.

Lingnau, Horst, to Woma-Apparatebau Wolfgang Maasberg & Co. GmbH. Swirl jet nozzle as a hydraulic work tool. 4,715,538, 12-29-87, Cl. 239-248.000.

Lingnau, Juergen: *See*—
  Doessel, Karl-Friedrich; and Lingnau, Juergen, 4,654,283, Cl. 430-57.000.
  Schmitt, Klaus; Schoen, Klaus-Peter; Riedel, Peter; Lingnau, Juergen; and Pliefke, Engelbert, 4,684,594, Cl. 430-49.000.

Lingnau, Jurgen, to Hoechst Aktiengesellschaft. Electrophotographic recording material containing an n-type conducting pigment. 4,668,600, 5-26-87, Cl. 430-83.000.

Lingnau, Jurgen: *See*—
  Dossel, Karl-Friedrich; and Lingnau, Jurgen, 4,652,507, Cl. 430-57.000.

Lingner & Fischer GmbH: *See*—
  Gollub, Hans J.; Hechenberger, Dieter A.; and Moermann, Renate, 4,716,189, Cl. 524-284.000.

Lingo Manufacturing Company: *See*—
  Masson, Paul J., 4,657,149, Cl. 211-194.000.

Lingo, William J., Sr. Converter for biodegradable material. 4,645,594, 2-24-87, Cl. 210-170.000.

Lingren, Clinton L.: *See*—
  Proctor, Raymond J.; Atwell, Thomas L.; Lingren, Clinton L.; and Miller, James F., 4,694,165, Cl. 250-252.100.

Linguanotto, Louis, to Etablissements Linguanotto. Seat, especially work seat, with several positions. 4,685,730, 8-11-87, Cl. 297-316.000.

Linguatron Limited: *See*—
  Shinoto, Yoshinori, 4,693,525, Cl. 312-208.000.

Linhardt, Wilbur J.: *See*—
  Wong, Mon N.; and Linhardt, Wilbur J., 4,688,006, Cl. 333-113.000.

Linhofer, Gerhard: *See*—
  Ali, Niyazi; and Linhofer, Gerhard, 4,661,763, Cl. 323-215.000.
  Blahous, Leopold; and Linhofer, Gerhard, 4,710,735, Cl. 333-175.000.
  Guth, Gerhard; Kuhn, Walter; Linhofer, Gerhard; and Sadek, Kadry, 4,689,733, Cl. 363-51.000.

Linial, Andrew V.; Hoyt, John M.; Luban, Dennis D.; and Cullers, James M., to Orthotronics, Inc. Range of motion measuring and displaying device. 4,665,928, 5-19-87, Cl. 128-782.000.

Linick, Bruce: *See*—
  Mastriani, Dennis; Jacoby, Donald; Weise, Jeanne; Linick, Bruce; Marinho, John; and DeSantis, Charles M., 4,696,053, Cl. 455-67.000.

Linick, James: *See*—
  Blomqvist, Ake; and Linick, James, 4,679,748, Cl. 244-3.190.

Link, Charles M., II: *See*—
  Guinn, William H., Jr.; Corbett, Richard M.; Bundy, Robert S.; Seaman, Jeffrey M.; Duncan, Keith B.; and Link, Charles M., II, 4,642,425, Cl. 379-57.000.

Link, Charles T.; Gray, Bennie M.; and Shumaker, Harold L., to American Standard Inc. Pneumatic pressure actuator. 4,696,223, 9-29-87, Cl. 92-86.500.

Link, Christoph; and Brandiser, Herbert, to Sulzer-Escher Wyss AG. Rolling apparatus. 4,658,621, 4-21-87, Cl. 72-243.000.

Link, David G.: *See*—
  Helm, William N.; and Link, David G., 4,657,029, Cl. 130-27.0JT.

Link, David H.; and Lopez, Juan R., to Clark Equipment Company. Method and means for lift truck assembly and servicing. 4,711,467, 12-8-87, Cl. 280-785.000.

Link, Edward P.; and Kerwawycz, John P., to Xerox Corporation. Method of assembly for optical fiber devices. 4,698,123, 10-6-87, Cl. 156-634.000.

Link, Erich: *See*—
  Erndt, Hans; Link, Erich; Martin, Adolf; Palloch, Herbert; and Wittler, Hilmar, 4,712,660, Cl. 192-18.00B.
  Lengsfeld, Karl; Link, Erich; and Erndt, Hans, 4,703,841, Cl. 192-12.0BA.
  Lengsfeld, Karl; Link, Erich; Martin, Adolf; and Wittler, Hilmar, 4,709,794, Cl. 192-18.00B.

Link, Heinz; and Schrenker, Karl-Heinz, to Linde Aktiengesellschaft. Reactor for catalytically induced or promoted reactions. 4,636,365, 1-13-87, Cl. 422-201.000.

Link, Helmut: *See*—
  Brombacher, Urs; Link, Helmut; and Montavon, Marc, 4,711,889, Cl. 514-297.000.

Link, Helmut D.; and Keller, Arnold, to Waldemar Link GmbH & Co. Holding stand for surgical instruments. 4,641,749, 2-10-87, Cl. 206-370.000.

Link, Helmut D., to Waldemar Link GmbH & Co. Hip joint endoprosthesis with a stem to be anchored in the femur. 4,645,506, 2-24-87, Cl. 623-23.000.

Link, Helmut D., to Waldemar Link GmbH & Co. Arrangement for preparing an anatomically measured endoprosthesis. 4,658,808, 4-21-87, Cl. 623-16.000.

Link, Helmut D.; and Keller, Arnold. Device for embedding in bone, in particular a femoral hip-joint prosthesis. 4,698,063, 10-6-87, Cl. 623-23.000.

Link, Helmut F., to Index Werke Komm.-Ges. Hahn & Tessky. Method of machining a workpiece in a turret lathe and an NC lathe for performing this method. 4,635,340, 1-13-87, Cl. 29-558.000.

Link, Helmut F.; Trautmann, Gunther; and Herrscher, Albert, to Index Werke Komm.-Ges. Hahn & Tessky. Multiple-spindle automatic lathe. 4,640,158, 2-3-87, Cl. 82-3.000.

Link, Helmut F.; and Grossmann, Walter, to Index-Werke Komm.-Ges. Hahn & Tessky. Device for changing chuck attachment jaws. 4,644,636, 2-24-87, Cl. 29-568.000.

Link, Helmut F.; and Schafer, Erich E., to Index-Werke Komm. Ges. Hahn & Tessky. Chuck. 4,645,219, 2-24-87, Cl. 279-1.00C.

Link, Helmut F., to Index-Werke Komm.-Ges. Hahn & Tessky. Tool holding device for lathes. 4,677,729, 7-7-87, Cl. 29-40.000.

Link, Helmut F., to Index-Werke Komm.-Ges. Hahn & Tessky. Method of machining a workpiece in a turret lathe and an nc lathe for performing this method. 4,683,787, 8-4-87, Cl. 82-18.000.

Link, Joseph E.: *See*—
  Oeth, James F.; and Link, Joseph E., 4,674,798, Cl. 297-411.000.

Link, Karl-Rupprecht: *See*—
  Ledebrink, Friedrich-Wilhelm; and Link, Karl-Rupprecht, 4,676,175, Cl. 110-235.000.

Link, Wiliam T., to Baxter Travenol Laboratories, Inc. Techniques for obtaining information associated with an individual's blood pressure including specifically a stat mode technique. 4,664,126, 5-12-87, Cl. 128-681.000.

Link, William J., to American Hospital Supply Corporation. Intraocular lens with a vaulted optic. 4,634,442, 1-6-87, Cl. 623-6.000.

Link, William T., to Baxter Travenol Laboratories, Inc. Waveform information obtaining techniques associated with an individual's blood pressure. 4,651,747, 3-24-87, Cl. 128-677.000.

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Link, William T., to Baxter Travenol Laboratories, Inc. Techniques for obtaining information associated with an individual's blood pressure including specifically a stat mode technique. 4,699,152, 10-13-87, Cl. 128-681.000.

Link, William T., to Baxter Travenol Laboratories, Inc. Method of and apparatus for determining the diastolic and systolic blood pressure of a patient. 4,712,563, 12-15-87, Cl. 128-681.000.

Linkat, Norbert: *See*—
  Bison, Gunter; Linkat, Norbert; and Thewalt, Klaus, 4,652,671, Cl. 560-168.000.

Linke, George A., to Ampex Corporation. Modular multichannel magnetic head assembly with accurate channel locations. 4,649,450, 3-10-87, Cl. 360-129.000.

Linke, George A., to Ampex Corporation. Method of manufacturing a modular magnetic head assembly. 4,688,326, 8-25-87, Cl. 29-603.000.

Linke-Hofmann-Busch: *See*—
  Kuker, Wolfgang; and Findeklee, Heinz, 4,690,067, Cl. 105-3.000.

Linke, Kaljo; and Neale, Raymond B., to N. B. Love Industries Pty. Limited. Apparatus for applying a mixed combination of adhesive and resin to corrugated board. 4,683,837, 8-4-87, Cl. 118-612.000.

Linke, Udo: *See*—
  Boden, Karl; Ibach, Harald; and Linke, Udo, 4,708,764, Cl. 156-617.00R.

Linker, Frank V.; and Linker, Frank V., Jr., to American Tech Manufacturing, Inc. High-speed electronic component lead forming apparatus and method. 4,665,954, 5-19-87, Cl. 140-147.000.

Linker, Frank V.; and Shuren, Thomas E., to American Tech Manufacturing, Inc. Apparatus and method for lead integrity determination for dip devices. 4,704,700, 11-3-87, Cl. 364-550.000.

Linker, Frank V.; and Linker, Frank V., Jr., to American Tech Manufacturing, Inc. Switch track assembly for high-speed handling of electronic components. 4,705,152, 11-10-87, Cl. 193-39.000.

Linker, Frank V., Jr.; and Shuren, Thomas E., to American Tech Manufacturing, Inc. Apparatus and method for lead integrity determination for dip devices. 4,686,637, 8-11-87, Cl. 364-550.000.

Linker, Frank V., Jr.: *See—*

Linker, Frank V., and Linker, Frank V., Jr., 4,665,954, Cl. 140-147.000.

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Linkies, Adolf: *See—*

Clauss, Karl; Linkies, Adolf; and Reuschling, Dieter, 4,638,063, Cl. 544-2.000.

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Linkies, Jurgen: *See—*

Achelpohl, Fritz; Winkler, Gerhard; Tupker, Hermann; and Linkies, Jurgen, 4,701,116, Cl. 425-72.00R.

Linkow, Leonard I.; and Hoffman, Leo. Movable plate implant. 4,661,066, 4-28-87, Cl. 433-176.000.

Linkow, Leonard I. Adjustable sinus lift implant. 4,682,951, 7-28-87, Cl. 433-173.000.

Linkow, Leonard I. Prefabricated partial subperiosteal implant. 4,702,697, 10-27-87, Cl. 433-173.000.

Linkow, Leonard I.; and Rinaldi, Anthony W., to Vent Plant Corporation. Submergible screw-type dental implant and method of utilization. 4,713,004, 12-15-87, Cl. 433-174.000.

Linkowski, William J., to Pitney Bowes Inc. Diagnostic control keyboard for a mailing machine. 4,639,918, 1-27-87, Cl. 371-20.000.

Linkowski, William J., to Pitney Bowes Inc. Diagnostic test for programmable device in a mailing machine. 4,644,541, 2-17-87, Cl. 371-20.000.

Linman, E. Kelly; Curro, John J.; and Weinshenker, Eugene, to Procter & Gamble Company, The. Non-occluding, liquid-impervious, composite backsheet for absorptive devices. 4,681,793, 7-21-87, Cl. 428-138.000.

Linman, E. Kelly: *See—*

Ouellette, William R.; Alcombright, Daniel S.; Curro, John J.; and Linman, E. Kelly, 4,637,819, Cl. 604-369.000.

Linn, Thomas D., to Boston Digital Corporation. Enclosure for a machine tool. 4,705,187, 11-10-87, Cl. 220-333.000.

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Eibl, Johann; Schwarz, Otto; Elsinger, Fritz; Wober, Gunter; Philapitsch, Anton; Linnau, Yendra; Dorner, Friedrich; Trambauer, Karl; and Frechinger, Wolfgang, 4,640,834, Cl. 424-94.000.

Linnemann, Jorgen: *See—*

Kjornaes, Kim; and Linnemann, Jorgen, 4,713,248, Cl. 424-468.000.

Linner, John G., to Board of Regents, The University of Texas, The. Apparatus and method for cryopreparing biological tissue. 4,676,070, 6-30-87, Cl. 62-64.000.

Linner, John G.; and Livesey, Stephen, to Board of Regents, The University of Texas, The. Apparatus and method for ultrarapid cooling of biological samples. 4,707,998, 11-24-87, Cl. 62-349.000.

Linnerbauer, Horst: *See—*

Spinner, Georg; Pitschi, Franz-Xaver; and Linnerbauer, Horst, 4,687,272, Cl. 439-271.000.

Linnert, Peter J.: *See—*

Andersen, Garry E.; Quinn, James R.; and Linnert, Peter J., 4,701,114, Cl. 417-564.000.

Linnett, Paul E.; and Sanders, Johan P. M., to Gist-Brocades N.V.; and Shell Internationale Research Maatschappij B.V. Process for the preparation of oligosaccharides-containing products from biomass. 4,677,198, 6-30-87, Cl. 530-500.000.

Linnola Limited: *See—*

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Linotype GmbH: *See—*

Meinhardt, Ferdinand, 4,704,021, Cl. 354-7.000.

Reiniger, Jurgen, 4,704,698, Cl. 364-523.000.

Linquist, Robert L.: *See—*

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Lins, Stanley J.: *See—*

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Linsi, Ulrich, to BBC Brown, Boveri & Company, Limited. Exhaust gas turbo-charger turbine. 4,655,038, 4-7-87, Cl. 60-602.000.

Linsinger, Ernst, deceased: *See—*

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Linsinger Machinenbau Gesellschaft mbH: *See—*

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Linsinger, Margarete, heir: *See—*

Rungger, Helmut; and Linsinger, Ernst, deceased. 4,655,109, Cl. 82-47.000.

Linska, Rudolf, to M.A.N.-Roland Druckmaschinen Aktiengesellschaft. Doctor blade for use in an inker of a printing machine. 4,676,160, 6-30-87, Cl. 101-365.000.

Linsker, Ralph: *See—*

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Dick, Carroll J.; Linsker, Ralph; Rutter, Roger S.; and Thomas, David L., 4,689,441, Cl. 174-68.500.

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Linstad, Gregory A.: *See—*

Jones, Paul W.; Merry, Rodney J.; and Linstad, Gregory A., 4,637,749, Cl. 403-322.000.

Linstromberg, William J.; Tate, Ralph, Jr.; and Kraemer, R
to Whirlpool Corporation. Ice maker with anti-capilla
4,649,718, 3-17-87, Cl. 62-340.000.

Linstromberg, William J., to Whirlpool Corporation. Snap-
for water dispenser. 4,651,789, 3-24-87, Cl. 141-360.000.

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8-25-87, Cl. 62-187.000.

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polysaccharide obtained thereby, its use, and strain NC
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Terry B., 4,667,548, Cl. 82-4.00C.

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Aktiengesellschaft. Air guide arrangement for the rear of
4,671,555, 6-9-87, Cl. 296-1.00S.

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element for top tools on presses. 4,674,315, 6-23-87, Cl. 72-

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  - Tryggvason, Karl; and Liotta, Lance A., 4,677,058, Cl. 435-7.000.
- otto, Donna; and Scocozza, Victor. Baking pan assembly. 4,644,858, 2-24-87, Cl. 99-449.000.
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  - Ferrand, Gerard; Barbanton, Jacques; and Depin, Jean-Claude, 4,649,153, Cl. 514-443.000.
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  - Lipinski, Henry, 4,709,782, Cl. 182-3.000.
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  - Portoghese, Philip S.; and Lipkowski, Andrzej W., 4,649,200, Cl. 546-26.000.
- Lipo Chemicals, Inc.: *See*—
  - Frischling, Louis B.; and Greenberg, Stephen M., 4,659,573, Cl. 424-63.000.
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  - Popescu, Mircea C.; Weiner, Alan L.; and Carpenter-Green, Sharon S., 4,708,861, Cl. 424-1.100.
  - Tremblay, Paul A.; and Kearns, John J., 4,714,571, Cl. 260-403.000.
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- Lipowski, Edwin M., to Kalt Manufacturing Company. Wire shaving apparatus. 4,650,380, 3-17-87, Cl. 409-310.000.
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  - Hunold, Klaus; Lipp, Alfred; and Reinmuth, Klaus, 4,634,640, Cl. 428-704.000.
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- Lipp, Charles W., to Dow Chemical Company, The. Two-fluid nozzle for atomizing a liquid-solid slurry. 4,679,733, 7-14-87, Cl. 239-432.000.
- Lipp, Charles W., to Dow Chemical Company, The. Nozzle for achieving constant mixing energy. 4,705,535, 11-10-87, Cl. 48-77.000.
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- Lipp, Hayden L.; and Squire, Richard H., to Du Pont de Nemours, E. I. and Company. Methyl methacrylate production. 4,668,818, 5-26-87, Cl. 560-215.000.
- Lipp, Helmut: *See*—
  - Reinhardt, Wilhelm; and Lipp, Helmut, 4,694,371, Cl. 361-23.000.
- Lipp, Robert, to California Devices, Inc. Gate array cell. 4,682,201, 7-21-87, Cl. 357-42.000.
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  - Kirst, Bertold; Beyer, Otto; and Lipp, Wolfgang, 4,693,168, Cl. 89-41.110.
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- Lippard, Stephen J.; and Bianconi, Patricia A., to Massachusetts Institute of Technology. Reductive coupling of linear carbon-containing ligands via transition metal complexes. 4,683,315, 7-28-87, Cl. 556-12.000.
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  - Kaplan, Murray A.; Bogardus, Joseph B.; and Lipper, Robert A., 4,680,389, Cl. 540-222.000.
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- Lippert, Irving S., to Polaroid Corporation. Apparatus for precluding rotational movement of an advancing film unit. 4,668,062, 5-26-87, Cl. 354-86.000.
- Lippert, Reinhold, to Daimler-Benz Aktiengesellschaft. Steering apparatus for motor vehicles. 4,702,333, 10-27-87, Cl. 180-140.000.
- Lippert, Roy O.: *See*—
  - Ross, Robert N.; and Lippert, Roy O., 4,655,372, Cl. 222-391.000.
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- Lippitt, David L.: *See*—
  - Casteel, Jordan B.; Lippitt, David L.; and Ritter, Allen M., 4,658,192, Cl. 318-317.000.
- Lippman, Andrew B.; Bove, Victor M., Jr.; and Wiesner, Jerome B., to Massachusetts Institute of Technology. Unrecordable video signals. 4,673,981, 6-16-87, Cl. 358-160.000.
- Lippman, David H.: *See*—
  - Bricker, James C.; and Lippman, David H., 4,697,610, Cl. 137-3.000.
- Lippman, Jerry: *See*—
  - Ferziger, Daniel; and Lippman, Jerry, 4,677,016, Cl. 428-212.000.
- Lippman, Richard D., to California Health Technologies. Method for retarding aging. 4,695,590, 9-22-87, Cl. 514-724.000.
- Lippman, Robert. Microscope slide system. 4,674,846, 6-23-87, Cl. 350-536.000.
- Lippman, Robert; and Schachter, Mel. Method and camera system for the inspection of boiler tubes. 4,699,485, 10-13-87, Cl. 354-63.000.
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  - Fox, John P.; Hedaya, Eddie; and Lippman, Violet, 4,713,324, Cl. 435-4.000.
- Lippold, Duane. Wheelchair carrier. 4,697,975, 10-6-87, Cl. 414-462.000.
- Lippold, Joseph H., Jr.: *See*—
  - Heaton, Harley L., III; Lippold, Joseph H., Jr.; McHale, Edward T.; and Skolnik, Edward G., 4,687,490, Cl. 44-51.000.
- Lipps, Wolfgang: *See*—
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- Lips, Hendrik: *See*—
  - Witt, Wolfram; Lips, Hendrik; Scholles, Herbert; and Schweiger, Raimund, 4,691,636, Cl. 102-387.000.
- Lips Vago SpA: *See*—
  - Peghetti, Ferruccio G., 4,688,492, Cl. 109-56.000.
- Lipscher, Bernard N.; and Coleman, Kevin G. Door message apparatus with telephone answering device. 4,715,060, 12-22-87, Cl. 379-70.000.
- Lipscher, Ervin: *See*—
  - Hiros, Laszlo; Banati, Gabor; and Lipscher, Ervin, 4,682,265, Cl. 361-231.000.
- Lipschutz, Paul, to Neiman S.A. Key operated lock mechanism with mixed mechanical and electric control. 4,649,272, 3-10-87, Cl. 250-229.000.
- Lipscomb, John F.; and Fox, Gary L., to JFL Laboratories, Inc. Exercise device. 4,666,154, 5-19-87, Cl. 272-144.000.
- Lipski, Jerzy A.; and Bardsley, Ian R., to Microtel Limited. Optical scanner and sensor for monitoring power consumption. 4,678,907, 7-7-87, Cl. 250-231.0SE.
- Lipski, Mordechai. Bath tub stool. 4,656,678, 4-14-87, Cl. 4-578.000.

Lipsky, Milton H.: *See*—
Lamberton, Robert P.; and Lipsky, Milton H., 4,699,141, Cl. 128-334.00R.

Lipson, David; Liu, Benjamin L.; and Loebel, Nicolas G., to Eli Lilly and Company. Optical fiber catheter with fiber-contained reactive element. 4,710,623, 12-1-87, Cl. 250-227.000.

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Cheng, Steven S.; Lipson, Jan; and Personick, Stewart D., 4,658,394, Cl. 370-3.000.

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Liptak, Frank J., Jr.; and North, Arthur J., to Integrated Technology Work, Inc. Alarm system for computers and the like. 4,686,514, 8-11-87, Cl. 340-571.000.

Liptay-Wagner, Nicholas; Renaud, Roland; Pryor, Timothy R.; and Clarke, Donald A., to Diffracto Ltd. Surface reflectivity detector with oil mist reflectivity enhancement. 4,686,374, 8-11-87, Cl. 250-571.000.

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Lipton, Michael F.: *See*—
Tiffany, Burris D.; Nichols, Steve; Meulman, Paul A.; Hylton, Thomas A.; and Lipton, Michael F., 4,624,725, Cl. 540-565.000.

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Schieser, Warren J.; Vickers, Stanley E.; and Duffey, Craig L., 4,676,285, Cl. 141-114.000.
Ulm, John G., 4,711,380, Cl. 222-541.000.

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Tyree, Lewis, Jr., 4,695,302, Cl. 62-10.000.

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Strand, Theodore L., 4,707,046, Cl. 439-314.000.

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Davis, Leo W., 4,652,008, Cl. 280-672.000.

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Lira, Miguel R.: *See*—
Ginsberg, Theodore; and Lira, Miguel R., 4,666,891, Cl. 514-45.000.

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McDonald, Douglas A., 4,662,207, Cl. 72-453.070.

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Westra, Lubbert; and Lirette, Brent J., 4,655,247, Cl. 137-519.500.

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Lisa, Alphonse, to Pomagalski S.A. Funicular railway car having compartment suspended above chassis. 4,693,186, 9-15-87, Cl. 105-329.100.

Lisa, Rudolph E.: *See*—
Finnan, Jeffrey L.; Lisa, Rudolph E.; and Schmidt, Douglass N., 4,710,519, Cl. 514-629.000.

Lisak, Robert F. Electronic module support stand. 4,660,791, 4-28-87, Cl. 248-122.000.

Lisak, Stephen P.: *See*—
Ryder, Francis E.; and Lisak, Stephen P., 4,674,018, Cl. 362-424.000.
Ryder, Francis E.; and Lisak, Stephen P., 4,713,739, Cl. 362-424.000.

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Lischke, Burkhard; and Frosien, Juergen, to Siemens Aktiengesellschaft. Apparatus and method for measuring lengths in a scanning particle microscope. 4,677,296, 6-30-87, Cl. 250-310.000.

Lischke, Burkhard: *See*—
Rose, Harald; Zach, Joachim; and Lischke, Burkhard, 4,714,833, Cl. 250-397.000.

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Lisec, Peter. Glass cutting table. 4,667,555, 5-26-87, Cl. 83-879.000.

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Lisec, Peter. Apparatus for butt welding. 4,704,512, 11-3-87, Cl. 219-101.000.

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Lish, Charles A., to Standard Microsystems Corp. Cascode auto bias circuit. 4,697,153, 9-29-87, Cl. 330-277.000.

Lisi, Marco: *See*—
Roederer, Antoine G.; Doro, Guilio; and Lisi, Marco, 4,710,776, Cl. 343-778.000.

Lisica, Vincent M.: *See*—
Barnett, Joseph A.; Gomez, Joseph M.; Green, William F.; Lis
Vincent M.; and Rosenthal, Arnold B., 4,714,400,
414-751.000.

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blank for constructing same. 4,702,407, 10-27-87, Cl. 206-624.000.

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144-369.000.

Liska, Frank T.: *See*—
Liska, Frank F.; and Liska, Frank T., 4,681,146, Cl. 144-369.00

Liska, Sandor: *See*—
Nemeth, Attila; Dolozselek, Gyula; Mikics, Laszlo; Molnar, Be
Sallai, Mihaly; Liska, Sandor; and Speck, Gyula, 4,670,901,
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operation. 4,685,947, 8-11-87, Cl. 65-29.000.

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ware forming apparatus with distributed control. 4,705,552, 11-10-
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Liskey, A. Keith: *See*—
Anderson, Roger A.; Goodman, James L.; Tickle, John D.; a
Liskey, A. Keith, 4,653,953, Cl. 403-268.000.

Lisle Corporation: *See*—
Pool, James L., 4,634,166, Cl. 294-103.100.
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Pool, James L., 4,716,365, Cl. 324-158.00P.
Rodriguez, Saulo, 4,672,867, Cl. 81-176.100.

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Wise, Carl D.; Hays, Frank W.; and Lisle, Thomas K., J
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Lisowyj, Bohdan; Hitchcock, David; and Epstein, Henry, to Enro
Inc. Direct fuel-fired furnace arrangement for the recovery of ga
lium and germanium from coal fly ash. 4,643,110, 2-17-87,
110-229.000.

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Corp. Process for the recovery of gallium and germanium from co
fly ash. 4,678,647, 7-7-87, Cl. 423-96.000.

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Liss, Barbara: *See*—
Kritchevsky, Gina R.; Gregor, John A.; Gruendig, Manfred W
Sellers, Gregory J.; and Liss, Barbara, 4,678,699, Cl. 428-175.00

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power transmission plant and a control means embodying th
method. 4,672,519, 6-9-87, Cl. 363-35.000.

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Crismatec. Control process for a monocrystal pulling machin
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Lissau, Frederic, deceased, 4,643,008, Cl. 70-167.000.

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Company. Lock for fuel filler cap. 4,643,008, 2-17-87, Cl. 70-167.00

Lisser, Jacques: *See*—
van de Klundert, Louis J. M.; ten Kate, Herman H. J.; Sikkenga
Jan; Groenenboom, Maarten; and Lisser, Jacques, 4,709,314, C
363-14.000.

Lissoni, Adelio, to S.I.A.T. Societa Internazionale Applicazioni Tech
niche S.p.A. Pressure roller device for laterally retaining boxes
packaging machines with automatic box feed. 4,633,642, 1-6-87, C
53-137.000.

Lissoni, Adelio, to S.I.A.T. Societa Internazionale Applicazioni Tec
niche S.p.A. Packaging machine with a frame of stiffened structur
4,658,563, 4-21-87, Cl. 53-137.000.

List, Hans: *See*—
Fauser, Edwin; List, Hans; and Schirmer, Gunter, 4,665,399, C
340-870.320.
Fauser, Edwin; and List, Hans, 4,716,372, Cl. 328-146.000.

List, Harold A., to Railway Engineering Associates, Inc. Articulate
trucks. 4,655,143, 4-7-87, Cl. 105-168.000.

List, Harold A., to Railway Engineering Associates, Inc. Self-steerin
trucks. 4,706,571, 11-17-87, Cl. 105-168.000.

List, Heinz; and Kunz, Alfred, to Dipl. Ing. H. List Industrielle Verfa
renstechnik. Mixing and kneading machine. 4,650,338, 3-17-87, C
366-85.000.

List, Helmut: *See*—
Marsoner, Hermann; Kirchmayer, Gerald; and List, Helmu
4,704,893, Cl. 73-1.00G.

Lister-James, John: *See*—
Davison, Alan; Brenner, David; Lister-James, John; and Jone
Alun G., 4,673,562, Cl. 424-1.100.

Liston, Thomas V.; Lowe, Warren; and Small, Vernon R., to Chevr
Research Company. Normally liquid C_{18} to C_{24} monoalkyl catecho
4,643,838, 2-17-87, Cl. 252-52.00R.

Liston, Thomas V.: *See*—
Yamaguchi, Elaine S.; and Liston, Thomas V., 4,668,409, Cl. 25
32.70E.

Listrom, Robin D.: *See*—
Symington, John M.; and Listrom, Robin D., 4,713,003, C
433-173.000.

Litch, Ernest W., III: *See*—
Brahmavar, Subhash M.; and Litch, Ernest W., III, 4,687,977, C
318-492.000.

Litchford, George B.: *See—*
Hulland, Burton L.; and Litchford, George B., 4,642,648, Cl. 342-455.000.

Litchstreet Co.: *See—*
Hulland, Burton L.; and Litchford, George B., 4,642,648, Cl. 342-455.000.

Litef GmbH: *See—*
Handrich, Eberhard; and Schroder, Werner, 4,702,600, Cl. 356-350.000.
Hassenpflug, Wolfgang; and Schwable, Rainer, 4,702,106, Cl. 73-181.000.
Kirst, Bertold; Beyer, Otto; and Lipp, Wolfgang, 4,693,168, Cl. 89-41.110.
Schroder, Werner, 4,702,601, Cl. 356-350.000.

Litehizer, Melvin P., Jr., to AMP Incorporated. Hand held tool for wire insertion. 4,642,874, 2-17-87, Cl. 29-566.400.

Litens Automotive Inc.: *See—*
Bytzek, Klaus K., 4,689,037, Cl. 474-135.000.
Bytzek, Klaus K.; and Antchak, John R., 4,698,049, Cl. 474-135.000.

Litherland, Troy C.: *See—*
Brazelton, Carl L.; and Litherland, Troy C., 4,688,945, Cl. 366-156.000.

Lithium Corporation of America, Inc.: *See—*
Kamienski, Conrad W., 4,634,786, Cl. 556-187.000.
Kamienski, Conrad W.; and Dover, B. Troy, 4,678,614, Cl. 260-665.00R.

Litman, David J.: *See—*
Zuk, Robert F.; and Litman, David J., 4,654,300, Cl. 435-7.000.

Litman, Michael: *See—*
Bernardini, Ronald J., 4,696,303, Cl. 128-402.000.

Litovitz, Theodore A.: *See—*
Barkatt, Aaron; and Macedo, Pedro B., 4,648,975, Cl. 210-656.000.
Macedo, Pedro B.; and Barkatt, Aaron, 4,659,477, Cl. 210-679.000.
Macedo, Pedro B.; and Barkatt, Aaron, 4,659,512, Cl. 252-629.000.

Litovitz, Theodore Aaron: *See—*
Barkatt, Aaron; and Macedo, Pedro B., 4,654,146, Cl. 210-670.000.

Litowitz, Robert H. Table saw guide construction. 4,713,993, 12-22-87, Cl. 83-34.000.

Littau, Eugene G. Dimensionally-adjustable straddle-type crop-working vehicle. 4,683,969, 8-4-87, Cl. 180-6.480.

Littau, Eugene G. Belted crop-collecting and conveyor system. 4,702,065, 10-27-87, Cl. 56-329.000.

Litteken, Mark A., to International Business Machines Corp. Generating figures in a document formatter directly from a declarative tag. 4,710,885, 12-1-87, Cl. 364-518.000.

Littelfuse, Inc.: *See—*
Borzoni, John M., 4,661,793, Cl. 337-260.000.
Krueger, David J., 4,636,765, Cl. 337-273.000.
Oh, Seibang, 4,635,023, Cl. 337-163.000.
Oh, Seibang, 4,670,729, Cl. 337-264.000.
Reeder, Conrad M., 4,656,453, Cl. 337-236.000.

Littelfuse-Tracor B.V.: *See—*
Vermij, Leendert, 4,703,299, Cl. 337-158.000.

Litterer, Heinz: *See—*
Arpe, Hans-Jurgen; Litterer, Heinz; and Mayer, Norbert, 4,650,915, Cl. 570-202.000.

Little, Carl W. Practice putting cup. 4,647,047, 3-3-87, Cl. 273-178.00A.

Little, Charles F. Irrigation additive delivery system. 4,635,848, 1-13-87, Cl. 239-10.000.

Little, Damon P.: *See—*
McGlothen, Jody R.; and Little, Damon P., 4,637,460, Cl. 166-189.000.

Little, Donald E., to Pacific Textiles, Inc. CPE-PVF laminate for chemical protective clothing. 4,675,228, 6-23-87, Cl. 428-215.000.

Little, Douglas J., to Dow Chemical Company, The. Recrystallization of bisphenol A by azeotropically drying the solvent. 4,638,102, 1-20-87, Cl. 568-724.000.

Little, Francis H.: *See—*
Steele, Douglas S.; Little, Francis H.; Sostarich, Joseph J.; and Ingram, Douglas E., 4,682,964, Cl. 445-28.000.

Little Giant Crane and Shovel, Inc.: *See—*
Heckman, Glenard W., 4,708,066, Cl. 105-215.200.

Little, James L.: *See—*
Schaefer, William F.; Little, James L.; Cooper, Kenneth F.; and Easter, James R., 4,675,147, Cl. 376-245.000.

Little, John D.; Little, Lorianne C.; and Wood, John. Method for making fabric roses. 4,708,893, 11-24-87, Cl. 428-26.000.

Little, Lorianne C.: *See—*
Little, John D.; Little, Lorianne C.; and Wood, John, 4,708,893, Cl. 428-26.000.

Little, Michael J.: *See—*
Grinberg, Jan; and Little, Michael J., 4,688,897, Cl. 350-336.000.

Little, Percy A.: *See—*
Walton, Paul G.; and Little, Percy A., 4,683,965, Cl. 175-385.000.

Little, Roger H. Method for the recovery of precious metals from ores. 4,645,535, 2-24-87, Cl. 75-118.00R.

Little, Thomas N.; Longo, Lorenzo L.; and Chan, Sun-Shiu D., to Northern Telecom Limited. Analog circuit improvement in a digital integrated circuit technology. 4,684,832, 8-4-87, Cl. 307-520.000.

Little, Thomas R.: *See—*
Kleinecke, John D.; Farag, Samir F.; and Little, Thomas R., 4,688,144, Cl. 361-345.000.

Little, Warren E.: *See—*
Wolaver, Dan H.; and Little, Warren E., 4,682,116, Cl. 328-167.000.

Little, Wendell L.; and Burch, Kenneth R., to Motorola, Inc. Method and apparatus in a data processor for selectively disabling a power-down instruction. 4,669,059, 5-26-87, Cl. 364-900.000.

Little, William E.; and McLendon, Thomas R., to United States of America, Energy. Method for in situ heating of hydrocarbonaceous formations. 4,705,108, 11-10-87, Cl. 166-248.000.

Little, William R.: *See—*
Faulkner, Danny E.; and Little, William R., 4,645,071, Cl. 198-842.000.

Littlejohn, David, to U.S. Philips Corporation. Electrothermal atomizer. 4,657,389, 4-14-87, Cl. 356-312.000.

Littlejohn, Duane P.: *See—*
Ghaderi, Sahba; and Littlejohn, Duane P., 4,668,864, Cl. 250-291.000.

Littleton, Francis J., to Littleton Industrial Consultants, Inc. Sheet counter and stacker system. 4,652,197, 3-24-87, Cl. 414-50.000.

Littleton, Francis J. Apparatus for folding and delivering sheet material. 4,682,767, 7-28-87, Cl. 270-45.000.

Littleton, Henrietta. Device for manipulating bedridden patients. 4,675,925, 6-30-87, Cl. 5-61.000.

Littleton Industrial Consultants, Inc.: *See—*
Littleton, Francis J., 4,652,197, Cl. 414-50.000.

Littleton, Jody; and Davis, Gary W., to Tamworth, Inc. Automatic cup pig launching and retrieving system. 4,709,719, 12-1-87, Cl. 137-268.000.

Littleton, Karen W.: *See—*
Commins, Alfred D.; Gilb, Tyrell T.; and Littleton, Karen W., 4,665,672, Cl. 52-295.000.

Littlewood, Paul A.: *See—*
Graves, Alan F.; and Littlewood, Paul A., 4,698,806, Cl. 370-100.000.

Littmann, Wolfgang: *See—*
Ernst, Hansgeorg; Littmann, Wolfgang; and Paust, Joachim, 4,716,243, Cl. 558-395.000.
Leininger, Hartmut; Littmann, Wolfgang; Paust, Joachim; and Trautmann, Walter, 4,692,527, Cl. 544-405.000.

Litton Automation Systems, Inc.: *See—*
Houskamp, Robert W., 4,656,406, Cl. 318-587.000.

Litton Resources Systems, Inc.: *See—*
McNeel, William O.; Montieth, Royel F.; and Scott, Stephen E., 4,682,831, Cl. 439-294.000.
Porter, James A., Jr., 4,649,530, Cl. 367-154.000.
Siems, Lee E., 4,654,660, Cl. 340-870.290.

Litton Systems Canada, Ltd.: *See—*
Young, Willard A., 4,665,402, Cl. 342-91.000.

Litton Systems, Inc.: *See—*
Acharekar, Madhu; and Casteleiro, Carlos, 4,653,063, Cl. 372-107.000.
Adsett, Anthony P., 4,713,825, Cl. 372-107.000.
Anderson, Robert H.; Ross, William E.; and Maki, Theodore R., 4,661,809, Cl. 340-783.000.
Bernardini, Allen J., 4,711,520, Cl. 350-96.200.
Bonenberger, Kenneth E., 4,693,527, Cl. 439-13.000.
Bonenberger, Kenneth E., 4,710,131, Cl. 439-13.000.
Brown, Alison, 4,646,096, Cl. 342-357.000.
Busse, Gary W.; and Tronnes, Jerome, 4,651,963, Cl. 248-323.000.
Butler, Alfred L., 4,634,091, Cl. 248-637.000.
Butler, Alfred L., 4,711,575, Cl. 356-350.000.
Chang, Chin-Lung; and Feth, John R., 4,695,123, Cl. 350-96.150.
Cote, Laurence G., 4,698,823, Cl. 372-99.000.
DiMeo, Frank N., 4,693,505, Cl. 294-119.100.
Drake, George M., 4,663,505, Cl. 219-10.55C.
Ekstrom, Joel L., 4,660,042, Cl. 342-175.000.
Fersht, Samuel N.; and Fersht, Rena S., 4,710,027, Cl. 356-350.000.
Feth, John R., 4,711,525, Cl. 350-96.330.
Guyette, Raymond F.; and Wright, William T., 4,699,027, Cl. 81-9.510.
Hagberg, Calvin A., 4,701,586, Cl. 219-10.55R.
Hoffman, George J., 4,645,960, Cl. 310-90.500.
Hutchings, Thomas J., 4,715,713, Cl. 356-350.000.
Klemp, Eldon J., 4,679,884, Cl. 439-106.000.
Lewis, Gary K., 4,639,690, Cl. 331-96.000.
Loomer, Weston R.; and Coons, Randall P., 4,697,977, Cl. 414-662.000.
MacPhail, Guilford R., 4,700,109, Cl. 315-39.300.
Mark, John G.; Brown, Alison K.; and Matthews, Anthony, 4,634,283, Cl. 356-350.000.
Martin, Graham J., 4,637,255, Cl. 73-517.00R.
Martin, Graham J., 4,686,683, Cl. 372-94.000.
Millman, Ronald W., 4,680,439, Cl. 219-10.55R.
Millman, Ronald W., 4,711,982, Cl. 219-10.55D.
Myers, William P., 4,709,575, Cl. 73-23.000.
Pavlath, George A., 4,666,235, Cl. 350-96.150.
Pavlath, George A., 4,679,894, Cl. 350-96.150.
Phillips, Samuel J., 4,683,354, Cl. 200-61.410.
Polischuk, Andrey, 4,635,297, Cl. 455-217.000.
Rogers, Robert T.; and Stewert, James C., 4,713,720, Cl. 361-97.000.
Stewart, Robert E., 4,679,434, Cl. 73-517.00B.
Sturza, Mark A.; Knitter, Wayne L.; and Wu, Yi-Zen, 4,642,647, Cl. 342-415.000.
Sturza, Mark A., 4,706,286, Cl. 380-34.000.

Littrell, Robert H.: *See—*
Cardina, John; Littrell, Robert H.; and Stowell, Larry J., 4,643,756, Cl. 71-79.000.

Littwin, Burkhard, to Siemens Aktiengesellschaft. Flat picture reproduction device. 4,672,272, 6-9-87, Cl. 315-169.100.

Littwin, Burkhard: *See*—

Hillenbrand, Bernhard; Huber, Wilhelm; Littwin, Burkhard; and Schuster, Karl, 4,634,935, Cl. 315-169.400.

Littwin, Kenneth M.; Armond, Joseph A.; Buky, Gabriel R.; and Patrick, Fred, to Electro-Matic Products Co. Degausser/demagnetizer. 4,639,821, 1-27-87, Cl. 361-151.000.

Littwin, Kenneth M.; Armond, Joseph A.; and Patrick, Fred, to Electro-Matic Products Co. Degausser/demagnetizer. 4,672,345, 6-9-87, Cl. 335-284.000.

Litvin, Leonid V.: *See*—

Lebedev, Vladimir K.; Chernenko, Ivan A.; Dyshlenko, Alexandr T.; Litvin, Leonid V.; and Tishura, Vladimir I., 4,712,724, Cl. 228-112.000.

Lebedev, Vladimir K.; Chernenko, Ivan A.; Dyshlenko, Alexandr T.; Litvin, Leonid V.; and Tishura, Vladimir I., 4,715,523, Cl. 228-2.000.

Litvinenko, Leonid A.: *See*—

Redikultsev, Jury V.; Litvinenko, Leonid A.; Chermenskaya, Taisia S.; Petrikevich, Svetlana B.; and Maximov, Mikhail G., 4,656,138, Cl. 435-314.000.

Redikultsev, Jury V.; Litvinenko, Leonid A.; Golovlev, Evgeny L.; Golovleva, Ljudmila A.; Chermensky, Dmitry N.; and Skryabin, Georgy K., 4,686,189, Cl. 435-289.000.

Litvinoff, Jerome S. Rescue vehicle. 4,677,896, 7-7-87, Cl. 89-36.080.

Litwin, Walter J. One-piece container closure of the dispensing type. 4,706,855, 11-17-87, Cl. 222-511.000.

Litz, Steven D. Baseball shin guards. 4,633,525, 1-6-87, Cl. 2-22.000.

Litz, Steven D. Baseball shin guards. 4,674,157, 6-23-87, Cl. 24-442.000.

Litzenburger, Wolfgang. Multiple filters with flow-reversing rotary valve set. 4,636,311, 1-13-87, Cl. 210-323.200.

Litzinger, Elmer: *See*—

Korte, Kevin R.; Litzinger, Elmer; and Wu, Dan T., 4,700,722, Cl. 131-309.000.

Litzinger, Elmer F.: *See*—

Denier, Robert F.; Marshall, Robert H.; Jewell, John N.; and Litzinger, Elmer F., 4,677,994, Cl. 131-310.000.

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Liu, Benjamin L.: *See*—

Lipson, David; Liu, Benjamin L.; and Loebel, Nicolas G., 4,710,623, Cl. 250-227.000.

Liu, Benjamin Y. H.: *See*—

Marple, Virgil A.; and Liu, Benjamin Y. H., 4,670,135, Cl. 509-143.000.

Liu, Chain T., to United States of America, Energy. Long range ordered alloys modified by addition of niobium and cerium. 4,647,427, 3-3-87, Cl. 420-435.000.

Liu, Chain T.; and Koch, Carl C., to Martin Marietta Energy Systems, Inc. Ductile aluminide alloys for high temperature applications. 4,711,761, 12-8-87, Cl. 420-459.000.

Liu, Chao-Min; and Westley, John, to Hoffmann-La Roche Inc. Antibiotics X-14889 A,C and D. 4,672,033, 6-9-87, Cl. 435-75.000.

Liu, Chi-Sheng; and Feldman, Donald W., to Westinghouse Electric Corp. Recovery system for xenon chloride laser. 4,661,963, 4-28-87, Cl. 372-59.000.

Liu, Chi-Sheng: *See*—

Liberman, Irving; Liu, Chi-Sheng; and Zollweg, Robert J., 4,666,251, Cl. 350-319.000.

Liu, Ching-Song. Quick-connector assembly for water supply. 4,660,804, 4-28-87, Cl. 251-149.600.

Liu, Chong T., to Kollmorgen Technologies Corporation. Process for electro-deposition of a ductile strongly adhesive zinc coating for metals. 4,663,000, 5-5-87, Cl. 204-55.100.

Liu, Christopher S.: *See*—

Hart, William P.; and Liu, Christopher S., 4,668,412, Cl. 252-51.50A.

Kapusciniski, Maria M.; Kaufman, Benjamin J.; and Liu, Christopher S., 4,715,975, Cl. 252-50.000.

Kapuscinski, Maria M.; Liu, Christopher S.; Hart, William P.; and Grina, Larry D., 4,640,788, Cl. 252-51.50R.

Liu, Chung-Chiun, to Case Western Reserve University. Apparatus and method for sensing species, substances and substrates using oxidase. 4,655,880, 4-7-87, Cl. 204-1.00T.

Liu, Chung-Heng: *See*—

Meyers, Peter V.; Liu, Chung-Heng; and Frey, Timothy J., 4,710,589, Cl. 136-258.0PC.

Liu, Clark W. User assembled desk top file. 4,664,2[illegible] 12-[illegible], Cl. 220-4.00F.

Liu, Dean-Yuan; and Sholtis, Albert A., to Sanders As[illegible] Inc. Thermal printer ribbon cartridge for wide ribbons. 4,673,[illegible] [illegible]6-87, Cl. 400-208.000.

Liu, Dean-Yuan: *See*—

Guy, Jon S.; Liu, Dean-Yuan; and Sholtis, Albert A., 4,705,414, Cl. 400-120.000.

Liu, Jackson. Pneumatic pressure gauge. 4,708,169, 11-24-87, Cl. 137-557.000.

Liu, Jia-ming; and Chen, Ying C., to GTE Laboratories Incorporated. Optical logic and memory apparatus. 4,689,793, 8-25-87, Cl. 372-8.000.

Liu, Jia-ming: *See*—

Seymour, Robert J.; Liu, Jia-ming; and Chen, Ying C., 4,685,108, Cl. 372-19.000.

Liu, John: *See*—

Lifka, Bernard W.; Liu, John; and Doherty, Roger D., 4,659,396, Cl. 148-11.50A.

Liu, Kang-Jen; and Lee, Ho-Lun, to Chinese Petroleum Corp. Process for preparing bipolar membranes. 4,673,454, 6-16-87, Cl. 156-281.000.

Liu, Ke-Tien; and Nack, Herman, to Battelle Development Corporation. NO$_X$ reduction in multisolid fluidized bed combustors. 4,704,084, 11-3-87, Cl. 431-7.000.

Liu, Ke-Tien: *See*—

Aslesen, Kerby S.; Bocek, John R.; Canfield, Dennis R.; and Liu, Ke-Tien, 4,689,989, Cl. 73-61.10R.

Liu, Kenneth C., to United States of America, Energy. Self-aligning hydraulic piston assembly for tensile testing of ceramic. 4,686,860, 8-18-87, Cl. 73-856.000.

Liu, Kindtoken H.: *See*—

Becker, Mitchell; and Liu, Kindtoken H., 4,663,303, Cl. 502-170.000.

Liu, King, to Schwinn Bicycle Company. Chainguard. 4,639,240, 1-27-87, Cl. 474-144.000.

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Liu, Kou-Chang, to GAF Corporation. Preparation of carboxypropylated non-ionic surfactants. 4,692,551, 9-8-87, Cl. 562-471.000.

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Robinson, Eugene A.; Sharpe, Claude A.; Iseli, James W.; Valella, Julio E.; and Liu, Kuen-Yu, 4,651,282, Cl. 364-443.000.

Liu, Kuo-Ching, to Quantronix Corporation. Frequency doubling a Q-switched laser beam by using intracavity Type II phase matching. 4,637,026, 1-13-87, Cl. 372-22.000.

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Liu, Lai-Jin. Structure of rocking rod for new type horizontal contact video game. 4,658,666, 4-21-87, Cl. 74-471.0XY.

Liu, Leland L., to Mobil Oil Corporation. Pigmented, heat-sealable coating composition for application to oriented polyolefin films. 4,681,803, 7-21-87, Cl. 428-348.000.

Liu, Leland L.; and Touhsaent, Robert E., to Mobil Oil Corporation. Coated, oriented, polymer film laminate. 4,695,503, 9-22-87, Cl. 428-207.000.

Liu, Marie W.; and Ho, Victor, to Ciba-Geigy Corporation. Heat-curable mixture containing substituted bicyclo(2.2.1)hept-5-ene-2,3-dicarboximide and polymaleimide. 4,678,849, 7-7-87, Cl. 526-259.000.

Liu, Michael S.; and Hoefflinger, Bernd, to Honeywell Inc. Three-dimensional CMOS using selective epitaxial growth. 4,686,758, 8-18-87, Cl. 437-34.000.

Liu, Mike. Cabinet for storing small parts such as bolts screws or the like. 4,634,193, 1-6-87, Cl. 312-107.000.

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Liu, Ming-Biann, to Dow Chemical Company, The. Process for electrochemically forming an aromatic compound containing one or more alpha-acyloxylated aliphatic substitutent(s). 4,643,807, 2-17-87, Cl. 204-78.000.

Liu, Ming-Biann, to Dow Chemical Company, The. Process for preparing halogenated trialkyl phosphate esters. 4,714,771, 12-22-87, Cl. 558-102.000.

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Liu, Nan-I; and McCready, Russell J., to General Electric Company. Elastomeric compositions. 4,659,765, 4-21-87, Cl. 524-447.000.

Liu, Nan T. Twin bladed survival knife. 4,669,186, 6-2-87, Cl. 30-125.000.

Liu, Paul S., to Merrell Dow Pharmaceuticals Inc. Homodisaccharide hypoglycemic agents. 4,634,765, 1-6-87, Cl. 536-17.400.

Liu, Ping Y.; and Belfoure, Edward L., to General Electric Company. Copolyester-carbonate composition. 4,634,737, 1-6-87, Cl. 525-146.000.

Liu, Ping Y., to General Electric Company. Blow-moldable polycarbonate resin compositions. 4,652,602, 3-24-87, Cl. 524-449.000.

Liu, Ping Y., to General Electric Company. Composition. 4,666,985, 5-19-87, Cl. 525-146.000.

Liu, Ping Y., to General Electric Company. Low gloss, flame reterdant, impact resistant polycarbonate composition. 4,710,534, 12-1-87, Cl. 524-411.000.

Liu, Ping Y.: *See*—

Boutni, Omar M.; and Liu, Ping Y., 4,638,033, Cl. 525-67.000.

Boutni, Omar M.; and Liu, Ping Y., 4,656,225, Cl. 525-67.000.

Liu, Richard T.; Nickerson, Winston R.; and Anderson, Charles H., to Nestecs S.A. Flavorant capsules. 4,634,598, 1-6-87, Cl. 426-650.000.

Liu, Robert C.: *See*—

Neiss, Edward S.; Stevenson, David; Ho, Laurence L.; Liu, Robert C.; and Suh, John T., 4,650,854, Cl. 530-307.000.

Liu, Shao H.; and Yudichak, Joseph R., to ITT Corporation. Redundant clock combiner. 4,653,054, 3-24-87, Cl. 371-61.000.

Liu, Shuchen, to American Hoechst Corporation. Process for developing an aqueous alkaline development diazo photographic element. 4,692,397, 9-8-87, Cl. 430-325.000.

Liu, Te-Ning E.: *See*—

Geigert, John; Liu, Te-Ning E.; and N'timkulu, Thabiso, 4,707,446, Cl. 435-132.000.

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Hsia, Richard Y.; and Liu, Thomas C., 4,685,123, Cl. 379-93.000.

Liu, Thomas P.; and Eassa, Hussam E., to General Electric Company. Compensating circuit. 4,652,918, 3-24-87, Cl. 358-111.000.

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  Belanger, Barry F.; Liu, Thomas P. L.; and Lambert, Thomas W., 4,700,058, Cl. 250-205.000.

Liu, Victor: *See—*
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  Manmoto, Shinzo; and Iwasaki, Yasutaka, 4,669,150, Cl. 17-46.000.

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  Livingston, Virginia W.; Alexander-Jackson, Eleanor G.; and Livingston, Afton M., 4,692,412, Cl. 435-253.000.

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Livsey, Duncan J.: *See—*
  Hamblett, Martin; and Livsey, Duncan J., 4,696,621, Cl. 415-191.000.

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Lizza, Nicholas L.: *See—*
  Flanagan, Peter F.; and Lizza, Nicholas L., 4,664,459, Cl. 339-28.000.

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  Simon, Lewis A.; and Scarffe, Michael F., 4,677,756, Cl. 33-514.000.

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  Nordlund, Tore H.; and Ljungkvist, Lars E., 4,659,472, Cl. 210-609.000.

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Llames, Emiliano C., to Nepomuceno, Oscar, a part interest. Quick point reversible sling swivel for rifle and shotguns. 4,665,641, 5-19-87, Cl. 42-85.000.

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  Craig, Clark E., 4,684,178, Cl. 312-221.000.

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  - Buckshaw, Thomas M.; and Llewellyn, David T., 4,696,204, Cl. 74-567.000.
- Llewellyn, Ian P.: *See—*
  - Heinecke, Rudolf A. H.; Ojha, Suresh M.; and Llewellyn, Ian P., 4,684,535, Cl. 427-38.000.
- Llewellyn, Michael; and Holden, Stephen, to Safety-Kleen Corporation. Degreasing apparatus. 4,637,413, 1-20-87, Cl. 134-111.000.
- Llewelyn, Roger J.: *See—*
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  - Grangette, Henri; Llinares, Michel; Bossand, Bernard; and Faure, Alain, 4,708,720, Cl. 44-51.000.
  - Torck, Bernard; Amigues, Pierre; Weill Jerome; Gueguen, Claude; Llinares, Michel; and Bourgognon, Henri, 4,664,675, Cl. 44-60.000.
- Llinas, Rodolfo R.; Sugimori, Mutsuyuki; and Crank, Ronald K., to New York University. Infrared transcutaneous communicator and method of using same. 4,677,982, 7-7-87, Cl. 128-664.000.
- Llobet, Pere P.; and Baylina, Elisa G., to Laboratorio Fides, S.A. Therapeutic 1-(acylamino)-naphthalene-4-sulphonic acid derivatives. 4,689,346, 8-25-87, Cl. 514-555.000.
- Llopis, Miguel C. Optical excitation electromagnetic motor. 4,684,857, 8-4-87, Cl. 318-313.000.
- Llort, Francisco M.; Gendreau, Paul M.; and Berard, Raymond A., to Acushnet Company. Golf ball composition. 4,715,607, 12-29-87, Cl. 273-218.000.
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- Lloyd, Adam J. P.: *See—*
  - Gupta, Alankar; and Lloyd, Adam J. P., 4,691,760, Cl. 165-26.000.
  - Krogh, Steven B.; and Lloyd, Adam J. P., 4,638,791, Cl. 128-1.00A.
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  - Lloyd, Lawrence L.; and Lloyd, Barbara, executor, 4,685,280, Cl. 56-256.000.
- Lloyd, Benjamin. Recording devices. 4,681,462, 7-21-87, Cl. 368-69.000.
- Lloyd, Benjamin L. Paper towel dispenser. 4,634,033, 1-6-87, Cl. 225-73.000.
- Lloyd, Donald W., to Donald W. Lloyd Realty, Inc. Powder metallurgy process for producing steel articles. 4,693,864, 9-15-87, Cl. 419-23.000.
- Lloyd Doyle Limited: *See—*
  - Doyle, Keith G.; and Lloyd, Roy A., 4,635,289, Cl. 382-8.000.
- Lloyd, Floyd R., to Communication Equipment & Service Corp. Connector clamp for attachment to an angle iron member or the like. 4,666,116, 5-19-87, Cl. 248-228.000.
- Lloyd, Ian D., to Nautical Services Pty. Ltd. Desalinator for brackish or salt water. 4,664,751, 5-12-87, Cl. 202-176.000.
- Lloyd-Jones, John G.: *See—*
  - Lewis, John W.; and Lloyd-Jones, John G., 4,661,492, Cl. 514-282.000.
- Lloyd-Jones, Peter G.: *See—*
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- Lloyd, Kenneth O.; Old, Lloyd J.; Karlsson, Karl-Anders; Larson, Goran; Stromberg, Nicklas; Thurin, Jan; Anger, Bernd R.; and Oettgen, Herbert F., to Sloan-Kettering Institute. Monoclonal antibodies for detection of an H (O) blood group antigen. 4,678,747, 7-7-87, Cl. 435-7.000.
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  - Cairncross, J. Gregory; Mattes, M. Jules; Beresford, H. Richard; Albino, Anthony P.; Houghton, Alan N.; Lloyd, Kenneth O.; and Old, Lloyd J., 4,642,291, Cl. 435-240.000.
  - Dupont, Bo; Morishima, Yasuo; Collins, Nancy; Ogata, Shunichiro; and Lloyd, Kenneth O., 4,710,457, Cl. 435-7.000.
  - Fradet, Yves; Cordon-Cardo, Carlos; Whitemore, Willet F., Jr.; Melamed, Myron R.; Old, Lloyd J.; and Lloyd, Kenneth O., 4,643,971, Cl. 435-240.000.
  - Mattes, M. Jules; Lewis, John L., Jr.; Lloyd, Kenneth O.; Old, Lloyd J.; and Cordon-Cardo, Carlos, 4,666,845, Cl. 435-240.000.
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- Lloyd, Lawrence L.; and Lloyd, Barbara, executor. Mower cutting unit. 4,685,280, 8-11-87, Cl. 56-256.000.
- Lloyd, Mervin R.; and Kon, Terrance A. Snow trap attachment for crop harvesting machine. 4,715,174, 12-29-87, Cl. 56-297.000.
- Lloyd, Milton H.: *See—*
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- Lloyd, Norman E.; Antrim, Richard L.; and Johnson, Richard A., to Nabisco Brands, Inc. Process for purification of enzymes. 4,663,288, 5-5-87, Cl. 435-234.000.
- Lloyd, Norman E.: *See—*
  - Johnson, Richard A.; and Lloyd, Norman E., 4,634,673, Cl. 435-234.000.
- Lloyd, Roy A.: *See—*
  - Doyle, Keith G., and Lloyd, Roy A., 4,635,289, Cl. 382-8.000.
- Lloyd, Wallis A.: *See—*
- Lloyd, Wayne B., to Westinghouse Electric Corp. Variable frequency vibration isolator. 4,699,257, 10-13-87, Cl. 188-380.000.
- LLoyd-Williams, Andrew, to BOC Group, Inc., The. PSA assembly. 4,696,681, 9-29-87, Cl. 55-28.000.
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  - Carof, Alain; and Marchand, Maurice, 4,647,930, Cl. 342-6.000.
  - Hamzaoui, Salim; and Schilliger, Michel, 4,648,101, Cl. 375-99.000.
  - Poullain, Michel; and Marcuard, Alain, 4,709,237, Cl. 342-203.000.
- LN Industries SA: *See—*
  - Beyer, Karl, 4,689,851, Cl. 16-228.000.
- LNP Corporation: *See—*
  - Crosby, Jane M.; and Hutchins, MaryGail K., 4,695,602, Cl. 524-439.000.
- Lo, Allen K. W. Visual parallax compensation 3-D image structure. 4,650,282, 3-17-87, Cl. 350-130.000.
- Lo, David K., to Westvaco Corporation. Method for stabilizing peroxidase solutions. 4,657,864, 4-14-87, Cl. 435-192.000.
- Lo, David S.; and Lins, Stanley J., to Sperry Corporation. Propagational control for Vertical Bloch Line memories. 4,692,899, 9-8-87, Cl. 365-29.000.
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- Lo, Kuang-hsin K.: *See—*
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- Lo, Tin-Chee, to International Business Machines Corporation. Multifunctional differential cascode voltage switch logic. 4,686,392, 8-11-87, Cl. 307-448.000.
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- Lo, Young S.: *See—*
  - Taylor, Chandler R., Jr.; and Lo, Young S., 4,698,430, Cl. 546-262.000.
- Loadmaster Systems, Inc.: *See—*
  - Burell, John A.; and Mason, Joseph, 4,644,715, Cl. 52-170.000.
  - Nunley, C. Lynn; and Tomaselli, Joe W., 4,707,961, Cl. 52-408.000.
- Loh, Rainer: *See—*
  - Funke, Peter; Hanus, Dietmar; Loh, Rainer; and Konigs, Wihelm, 4,676,935, Cl. 264-0.500.
- Lobanoff, Mark, to Irvin Industries, Inc. Vanity mirror or vehicle accessory assembly and mounting apparatus therefor. 4,681,366, 7-21-87, Cl. 297-191.000.
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- Lobato, Matthew P. Wind-deflector and shelter apparatus. 4,646,770, 3-3-87, Cl. 135-102.000.
- Lobato, Toribio, to Clemar Manufacturing Corporation. Auxiliary timing source for ac-powered electronic clocks. 4,634,288, 1-6-87, Cl. 368-200.000.
- Lobeck, Walter G., Jr.: *See—*
  - Yevich, Joseph P.; and Lobeck, Walter G., Jr., 4,656,173, Cl. 514-253.000.
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- Lober, Richard W.: *See—*
  - Lillquist, Robert D.; Menzies, Richard G.; and Lober, Richard W., 4,656,331, Cl. 219-121.0PL.
- LoBiondo, Joseph V.: *See—*
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- Lobl, Helmut: *See—*
  - Bohme, Helmut; Lobl, Helmut; and Grossmann, Steffen, 4,696,531, Cl. 439-851.000.
- Lobley, David M., to Wargo, Andrew J. Glassworking scroll chuck with interchangeable jaws. 4,693,148, 9-15-87, Cl. 82-40.00R.
- Lobmann, Michele: *See—*
  - Delgoffe, Jean-Claude; Lobmann, Michele; and Zygraich, Nathan, 4,714,678, Cl. 435-235.000.
- Lobo, Alfred D.: *See—*
  - Fago, Anthony; and Lobo, Alfred D., 4,668,229, Cl. 604-327.000.
- Lobo, Natividade A.: *See—*
  - Clough, Patrick V. F.; and Lobo, Natividade A., 4,672,674, Cl.

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Gille, Henrick K.; Willing, Richard S.; Bloom, William G.; Siegel, Bernard; Cheung, Tsang; Lobodzinski Richard; and Gilroy, Keith, 4,712,567, Cl. 128-771.000.

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Locante, John, to Westinghouse Electric Corp. Remote level measurement in a solid-liquid system. 4,653,322, 3-31-87, Cl. 73-290.00R.

Locastro, Joseph L.: *See—*

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Lochbrunner, Eduard: *See—*

Gansert, Willi; Lochbrunner, Eduard; and Slansky, Harry, 4,713,573, Cl. 310-329.000.

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Locher, Johannes: *See—*

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Lochet, Jean A., to Vanguard Research Associates, Inc. Electrolyte solution and process for high speed gold plating. 4,670,107, 6-2-87, Cl. 204-44.300.

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Ferraro, Thomas A., 4,640,518, Cl. 279-123.000.

Lock, Michael W. B., to Internationale Octrooi Maatschappij "Octropa" BV. Transducers and control means. 4,688,199, 8-18-87, Cl. 367-137.000.

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Watson, Milton R.; Seeberger, F. G., Jr.; and Lockerd, Robert M., 4,654,514, Cl. 235-385.000.

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Dunmick, Gary S.; and Lockerman, Scott, 4,682,481, Cl. 70-14.000.

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Lockett, William, Jr., to Encon Associates Inc. Distillation vapor and feed mixing process. 4,714,542, 12-22-87, Cl. 208-347.000.

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Lockhart, Robert K., Jr.: *See—*

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Lockhart, Ronald R. Chain separator means. 4,686,746, 8-18-87, Cl. 24-116.00R.

Lockhart, Thomas P.: *See—*

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Adams, Mark J.; and Crisman, Elton M., Jr., 4,647,220, Cl. 374-5.000.

Aldridge, Jimmy A., 4,668,297, Cl. 106-286.500.

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Cronin, Michael J., 4,684,081, Cl. 244-58.000.

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Farley, Harold C.; and Boles, Robert G., 4,681,013, Cl. 89-1.815.

Halfpenny, Paul F., 4,705,033, Cl. 128-201.130.

Hannel, Clifford L., 4,696,197, Cl. 74-89.150.

Hendricks, Klaas, 4,645,147, Cl. 244-137.00P.

Kettering, Charles W., 4,687,158, Cl. 244-63.000.

Khurana, Sudershan K., 4,674,927, Cl. 408-56.000.

Lopez, Edward L., 4,637,383, Cl. 128-201.250.

Lovelace, Charles B., Jr., 4,682,800, Cl. 292-247.000.
Miller, John W., 4,651,954, Cl. 244-76.00R.
Peppel, George W.; and Sullivan, Paul E., 4,655,433, Cl. 254-364.000.
Peppel, George W.; and Sullivan, Paul E., 4,706,998, Cl. 285-167.000.
Peterson, Paul F., 4,637,292, Cl. 89-1.804.
Peterson, Paul F., 4,679,751, Cl. 244-137.400.
Pursley, Matt D., 4,653,934, Cl. 374-31.000.
Revere, William G., Jr., 4,682,392, Cl. 29-34.00B.
Salikuddin, Mohammed; and Tanna, Himatlal K., 4,689,821, Cl. 381-71.000.
Sparling, Kenneth P.; Richardson, David G.; Incardona, Angelo; Wood, Ronald E.; Kikendall, Garth D.; and Bakow, Leon, 4,678,384, Cl. 411-43.000.
Sparling, Kenneth P.; Incardona, Angelo; Kikendall, Garth D.; Richardson, David G.; Wood, Ronald E.; and Bakow, Leon, 4,681,499, Cl. 411-507.000.
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Thomas, Andrew S. W., 4,682,746, Cl. 244-207.000.
Wirt, Leslie S., 4,667,768, Cl. 181-286.000.
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Opitz, Charles L.; and Chase, Paul E., 4,641,137, Cl. 342-52.000.
Opitz, Charles L., 4,641,138, Cl. 342-61.000.
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Bareket, Noah, 4,687,332, Cl. 356-353.000.
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Bordenave, John R. P., 4,709,240, Cl. 343-772.000.
Galbraith, Andrew D., 4,709,882, Cl. 244-53.00R.
Howard, Darryl A.; and Shen, Lawrence Y. L., 4,639,669, Cl. 324-239.000.
Kwon, Osuk Y., 4,653,921, Cl. 356-353.000.
Lavendel, Henry W.; and Robinson, John C., 4,689,104, Cl. 156-325.000.
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Lingenfelter, Dean E., 4,668,867, Cl. 250-358.100.
Mercado, Romeo I., 4,681,407, Cl. 350-471.000.
Mercado, Romeo I., 4,702,569, Cl. 350-479.000.
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Rusk, Stanley J., 4,654,636, Cl. 340-347.00P.
Stefanov, Michael E.; Sullivan, Brian J.; and Ticknor, Anthony J., 4,637,725, Cl. 356-354.000.
Stewart, James P., 4,679,961, Cl. 403-341.000.
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Lockhoff, Oswald; Kruger, Bernd-Wieland; Stadler, Peter; Paessens, Arnold; Streissle, Gert; Taylor, Peter; Zeiler, Hans-Joachim; and Metzger, Karl-Georg, to Bayer Aktiengesellschaft. Phosphorylated glycosyl-amides, -ureas, -carbamates and -thiocarbamates and method of use. 4,686,208, 8-11-87, Cl. 514-42.000.
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Lockman, Michael W.: *See—*
Newsom, Horace R.; and Lockman, Michael W., 4,669,375, Cl. 100-45.000.
Lockman Products Company, Inc.: *See—*
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Locko, George A.; and Frihart, Charles R., to Union Camp Corporation. Silicone rubber containment of organic liquids. 4,703,070, 10-27-87, Cl. 523-102.000.
Lockwood, David N. Drill bit sharpening device. 4,658,549, 4-21-87, Cl. 51-94.00R.
Lockwood, David N. Building panels. 4,672,780, 6-16-87, Cl. 52-82.000.
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Lockwood Graders (UK) Limited: *See—*
Cowlin, Robert M.; and Cowlin, Simon, 4,655,110, Cl. 83-27.000.
Lockwood, Hanford N., Jr., to NEA Technologies, Inc. Pulse combustion energy system. 4,708,159, 11-24-87, Cl. 137-340.000.
Lockwood, James F., to Imperial Underground Sprinkler Co. Ball drive sprinkler. 4,687,139, 8-18-87, Cl. 239-205.000.
Lockwood, James M.: *See—*
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Lockwood, Larry R., to Tektronix, Inc. Phase detector. 4,654,600, 3-31-87, Cl. 328-151.000.
Lockwood, Larry R.; Gleason, Kimberly R.; and Strid, Eric W., to Cascade Microtech, Inc. Wafer probe. 4,697,143, 9-29-87, Cl. 324-158.00P.
Lockwood, Larry R.: *See—*
Roland, Leonard A.; Lockwood, Larry R.; and Grellmann, H Erwin, 4,670,723, Cl. 333-81.00A.
Lockwood Manufacturing Company: *See—*
Lamson, Frederick W.; Lansing, Richard; Decheim, Robert; and Martin, William, 4,673,092, Cl. 211-188.000.
Lockwood Technical, Inc.: *See—*
Watts, John D., 4,693,179, Cl. 101-119.000.
Lockwood, William D., to Con/Span Culvert Systems, Inc. Precas concrete culvert section. 4,687,371, 8-18-87, Cl. 405-125.000.
Lockyer, George D.: *See—*
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LoCodo, Jim. Towing device for vehicles. 4,669,946, 6-2-87, Cl. 414-563.000.
Locotos, Frank M., to F. M. Locotos Co., Inc. Reinforcing washer for a mine roof bolt assembly. 4,708,559, 11-24-87, Cl. 411-545.000.
Locotos, Frank M.: *See—*
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Hipkins, Edward C., Sr.; and Locotos, Frank M., 4,679,967, Cl. 405-288.000.
Hipkins, Edward C., Sr.; and Locotos, Frank M., 4,704,053, Cl. 405-261.000.
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Gelinas, William A.; Holtz, Edwin R.; Argazzi, Dennis J.; Smigel, Robert L.; and Wiley, Dan W., 4,661,190, Cl. 156-273.500.
Gelinas, William A.; and McDermott, Robert N., 4,678,100, Cl. 222-52.000.
Jacobine, Anthony F.; and Glaser, David M., 4,640,940, Cl. 522-99.000.
Klemarczyk, Philip; Nakos, Steven T.; and Lin, Samuel Q. S., 4,666,953, Cl. 522-34.000.
Klemarczyk, Philip T., 4,684,538, Cl. 427-54.100.
Lien, Qcheng S.; and Nakos, Steven T., 4,665,147, Cl. 528-15.000.
Lin, Samuel Q. S.; and Nakos, Steven T., 4,675,346, Cl. 522-39.000.
Nakos, Steven T.; and Lin, Samuel Q. S., 4,699,802, Cl. 427-54.100.
Ruesch, Merlin R., 4,708,270, Cl. 222-386.500.
Salisbury, Richard; and Wyman, Stephen W., 4,694,180, Cl. 250-455.100.
Loctite (Ireland) Limited: *See—*
Harris, Stephen J.; McKervey, M. Anthony; Melody, David P.; Woods, John; and Rooney, John M., 4,636,539, Cl. 523-214.000.
Harris, Stephen J.; Woods, John G.; and Rooney, John M., 4,642,362, Cl. 556-419.000.
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Leonard, Raymond G.; and Harris, Stephen J., 4,695,615, Cl. 526-194.000.
Woods, John; Rooney, John M.; and Boiger, Bernard J., 4,668,713, Cl. 522-174.000.
Woods, John G.; and Rooney, John M., 4,640,849, Cl. 427-54.100.
Woods, John G.; and Rooney, John M., 4,675,270, Cl. 430-311.000.
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Locurto, Anthony F. Tethered ball golf practice device. 4,660,835, 4-28-87, Cl. 273-200.00R.
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Loda, Michael A.: *See—*
Peterson, Gregory A.; Loda, Michael A.; and Graff, Timothy E., 4,688,158, Cl. 363-21.000.
Lodder, Bernhard; Overeijnder, Hans; and van Dongeren, Jan P., to Wavin B.V. Electroweldable socket and a device of manufacturing such a socket. 4,634,844, 1-6-87, Cl. 219-544.000.
Lodetti, Attilio; and Tobler, Karl, to AG fur industrielle Elektronik AGIE. Apparatus for severing a strip-like or wire-like electrode of a spark erosion machine. 4,709,130, 11-24-87, Cl. 219-69.00W.
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Lodetti, Attilio: *See—*
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Lodge, Edith M., to Gates Rubber Company, The. Floating hanger merchandise rack and method. 4,693,381, 9-15-87, Cl. 211-94.000.
Lodge, Nicolas K.: *See—*
Drury, Gordon M.; Mason, Arthur G.; Lodge, Nicolas K.; and Flannaghan, Barry A., 4,636,851, Cl.

Lodge, Robert H.: *See—*

Phillips, Ian R.; Lodge, Robert H.; and Bunyan, Glen W., 4,642,099, Cl. 604-136.000.

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Lodige, Rudolf; Leonhard, Bernhard; and Stille, Volker, to Dipl.-Ing. A. Loedige GmbH. Transport device for piece goods or the like. 4,681,211, 7-21-87, Cl. 198-789.000.

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Lodovico, Frank J., to Wagner, John W. Feeding device for a container cutting machine. 4,703,899, 11-3-87, Cl. 241-99.000.

Lodrick, Lawrence E., Sr. Magnetically actuated amusement device. 4,690,657, 9-1-87, Cl. 446-134.000

Loe, James M.: *See—*

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Loeb, George I.: *See—*

Stiffey, Arthur V.; Blank, David L.; and Loeb, George I., 4,689,305, Cl. 435-291.000

Loeb, Gerald E.: *See—*

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Loeb, James B.; Osborne, Andrew J., Jr.; and Miglierini, Raul A., to Dresser Industries, Inc. Rotary drilling jar. 4,662,460, 5-5-87, Cl. 175-305.000.

Loeb, Jonathon T.: *See—*

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Loeb, Karen C.: *See—*

Emerson, William D.; Hill, Deborah J.; Loeb, Karen C.; Mizrahi, Albert; Schlegel, Charles T.; and Scott, Lowell C., 4,646,346, Cl. 379-214.000.

Loeb, Marvin P.: *See—*

Hussein, Hany M. G.; and Loeb, Marvin P., 4,646,737, Cl. 128-303.100.

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Loeb, Melvin: *See—*

Magnus, George; Loeb, Melvin; and Wood, Robert J., 4,644,027, Cl. 524-375.000.

Magnus, George; Loeb, Melvin; and Wood, Robert J., 4,644,048, Cl. 528-176.000.

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Loeb, Mitchell L.: *See—*

Haas, Lee C.; and Loeb, Mitchell L., 4,677,618, Cl. 371-1.000.

Loeb, Phillip J., to Honeywell Inc. Variable frequency fire tone generator. 4,698,619, 10-6-87, Cl. 340-384.00E.

Loebel, Klaus D., to Schering Aktiengesellschaft. Injection solution. 4,708,957, 11-24-87, Cl. 514-264.000.

Loebel, Nicolas G.: *See—*

Lipson, David; Liu, Benjamin L.; and Loebel, Nicolas G., 4,710,623, Cl. 250-227.000.

Loeber, Frederick W.; Cummins, Nolan W.; Modglin, Rodger L.; and Greene, George O., to Unit Rig & Equipment Company. Rim for heavy, off-road vehicles. 4,706,723, 11-17-87, Cl. 152-410.000.

Loebert, Gerhard, to Messerschmitt-Bolkow-Blohm GmbH. Aircarft wing. 4,674,717, 6-23-87, Cl. 244-207.000.

Loebert, Heinz: *See—*

Schreiber, Reinhold; Ostle, Arnold-William; Maier, Walter; and Loebert, Heinz, 4,663,210, Cl. 428-160.000.

Loeffelholz, Frido: *See—*

Worschech, Kurt; Loeffelholz, Frido; Wedl, Peter; and Wegemund, Bernd, 4,637,887, Cl. 252-56.00R.

Loeffler, Herbert; and Preiner, Peter, to Siemens Aktiengesellschaft. Light waveguide connector. 4,708,428, 11-24-87, Cl. 350-96.200.

Loeffler, Herbert H.: *See—*

Hanson, Robert K.; Loeffler, Herbert H.; and Mattera, Philip J., 4,685,387, Cl. 99-450.400.

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Loeffler, Ronald L.: *See—*

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Loeffler, William R.: *See—*

Tibbals, Edward C., Jr., 4,700,581, Cl. 74-198.000.

Loeliger, Peter: *See—*

Klaus, Michael; Loeliger, Peter; and Weiser, Harald, 4,659,735, Cl. 514-443.000.

Klaus, Michael; and Loeliger, Peter, 4,678,793, Cl. 514-311.000.

Loepfe Brothers Limited: *See—*

Stutz, Hansruedi; and De Coi, Beat, 4,635,216, Cl. 364-562.000.

Loerch, Mark P. Rowing apparatus. 4,662,304, 5-5-87, Cl. 114-363.000.

Loerch, Mark P. Oar lock. 4,662,849, 5-5-87, Cl. 440-107.000.

Loerch, Mark P. Oar. 4,664,637, 5-12-87, Cl. 440-101.000.

Loetz, George C.: *See—*

Archung, Ralph; and Loetz, George C., 4,664,155, Cl. 137-877.000.

Loev, Bernard; Chan, Wan-Kit; and Jones, Howard, to USV Pharmaceutical Corporation. Alpha-alkyl polyolefinic carboxylic acids and derivatives thereof useful in the treatment of psoriasis and allergic responses. 4,694,023, 9-15-87, Cl. 514-559.000.

Loev, Bernard: *See—*

Brown, Richard E.; St. Georgiev, Vassil; Kropp, Philip; and Loev, Bernard, 4,668,678, Cl. 514-250.000.

Loevenbruck, Francois: *See—*

Leon, Jean G.; Loevenbruck, Francois; and Troadec, Jean R., 4,664,922, Cl. 426-124.000.

Loew, Albin: *See—*

Boehm, Peter; Volz, Peter; Bischoff, Gilbert; Booten, Sigmund; Engert, Klaus; and Loew, Albin, 4,641,568, Cl. 91-369.00A.

Loew, Peter: *See—*

Bowles, James B.; White, Marshall, Jr.; Puntener, Alois; Adam, Jean-Marie; and Loew, Peter, 4,652,269, Cl. 8-641.000.

Bowles, James B.; White, Marshall, Jr.; Puentener, Alois; Adam, Jean-Marie; and Loew, Peter, 4,693,727, Cl. 8-549.000.

Priester, Martin; and Loew, Peter, 4,655,970, Cl. 260-378.000.

Loew, Werner: *See—*

Detzer, Rudiger; Loew, Werner; and Kohnen, Franz, 4,697,435, Cl. 62-304.000.

Loewe, Heinz: *See—*

Rosner, Manfred; Loewe, Heinz; Duwel, Dieter; and Kirsch, Reinhard, 4,639,463, Cl. 514-395.000.

Loewe, Richard; and Perthus, Peter, to Robert Bosch GmbH. Headlight for antidazzle lights of motor vehicles. 4,685,036, 8-4-87, Cl. 362-61.000

Loewen, Gilbert L.: *See—*

Liefer, Allen C.; Loewen, Gilbert L.; and Magathan, Paul J., 4,709,519, Cl. 52-98.000.

Loewen, Heinz; and Wenko, Wold, to Electronic Plating Service, Inc. Process for producing electrical contacts for facilitating mass mounting to a contact holder. 4,712,299, 12-15-87, Cl. 29-882.000.

Loewenstein, Walter B.: *See—*

Kim, Jong H., and Loewenstein, Walter B., 4,663,111, Cl. 376-185.000.

Loewrigkeit, Peter; and Van Dyk, Kenneth A., to Witco Corporation. Aqueous polyurethane - polyolefin compositions. 4,644,030, 2-17-87, Cl. 524-457.000

LOF Plastics Inc.: *See—*

Smith, Elvin T., Jr.; and Ramsey, Robert D., 4,655,267, Cl. 144-2.00R.

Loffelman, Frank F.: *See—*

Stretanski, Joseph A.; and Loffelman, Frank F., 4,670,491, Cl. 524-120.000.

Loffler, Friedrich: *See—*

Riebel, Ulrich, 4,706,509, Cl. 73-865.500.

Loffler, Gerhard: *See—*

Jeschke, Willi; Kipphan, Helmut, and Loffler, Gerhard, 4,681,455, Cl. 356-445.000.

Kipphan, Helmut; and Loffler, Gerhard, 4,637,728, Cl. 356-402.000.

Lofgren, Barbro U.; Luciani, Luciano; Seppanen, Hanneli; Stjernberg, Maria H.; and Iiskola, Eero I., to Neste Oy. Catalyst components, a catalyst and a process for the polymerization of olefins. 4,673,661, 6-16-87, Cl. 502-111.000.

Lofgren, Folke; and Soderstrom, Sven E., to ASEA Aktiebolag. Cloud height measuring means. 4,643,564, 2-17-87, Cl. 356-5.000.

Lofgren, Karl M. J.; Shearer, Gerald W.; and Frank, Charles W., Jr., to Western Digital Corporation. Voltage controlled oscillator with self-adjustment of operating point. 4,667,170, 5-19-87, Cl. 331-17.000.

Lofgren, Karl M. J.; Shearer, Gerald W.; and Ouyang, Kenneth W., to Western Digital Corporation. Precise phase start-up voltage controlled oscillator with accurate duty cycle. 4,716,383, 12-29-87, Cl. 331-117.0FE.

Lofgren, Karl M. J.: *See—*

Ouyang, Kenneth W.; Lofgren, Karl M. J.; and Shearer, Gerald W., 4,704,587, Cl. 331-116.0FE.

Lofgren, Lars-Gunnar, to Nitro Nobel AB. Method and means for connecting fuses. 4,714,018, 12-22-87, Cl. 102-275.700.

Lofgren, Per-Erik, to USM Corporation. Latex adhesives for floor laying. 4,654,388, 3-31-87, Cl. 524-272.000.

Lofgren, Peter; and Arthun, Nils, to Steridose Systems AB. Volume-variable container for fluids. 4,674,655, 6-23-87, Cl. 222-48.000.

Lofgren, Peter; and Arthun, Nils, to Steridose Systems AB. Filling device. 4,685,494, 8-11-87, Cl. 141-65.000.

Lofquist, Alden A., Jr. Metering pump with diaphragm. 4,637,784, 1-20-87, Cl. 417-320.000.

Lofredo, Antony, to Boc Group, Inc., The. Process and apparatus for handling a vaporized gaseous stream of a cryogenic liquid. 4,689,962, 9-1-87, Cl. 62-54.000.

Lofter, Bjorn O., to Telefonaktiebolaget LM Ericsson. Phase locked loop for locking an oscillator to a noninteger multiple of the reference frequency. 4,668,923, 5-26-87, Cl. 331-16.000.

Lofthus, Jon: *See—*

Herngren, Torbjorn; and Lofthus, Jon, 4,690,634, Cl. 431-8.000.

Loftin, Rachel M.: *See—*

Case, Laura K.; Gajria, Chandrasen; Loftin, Rachel M.; and Peper, Henry, 4,671,691, Cl. 401-142.000.

Loftin, Rayford A., to Magnovox Government and Industrial Electronics Company. End weighted reed sound transducer. 4,709,359, 11-24-87, Cl. 367-155.000.

Loftin, Royal E.: *See—*

Son, Adelina J.; and Loftin, Royal E., 4,647,859, Cl. 324-323.000.

Lofton, Hugh P., to Huck Manufacturing Company. Tumbling media. 4,712,333, 12-15-87, Cl. 51-164.500.

Lofton, Thomas S., Jr.: *See—*

Reid, Philip L.; and Lofton, Thomas S., Jr., 4,658,568, Cl. 53-410.000.

Reid, Philip L.; and Lofton, Thomas S., Jr., 4,708,242, Cl. 206-257.000.

Lofts, Dennis; and Ballard, David, to Scott Science & Technology, Inc. Satelite transfer vehicle. 4,664,343, 5-12-87, Cl. 244-158.00R.

Loftus, Frank, to Imperial Chemical Industries PLC. Substituted cyanamide compounds useful for the manufacture of cephalosporin derivatives. 4,701,556, 10-20-87, Cl. 564-106.000.

Loga Mobel GmbH: *See—*

Harty, Alexander; and Lange, Jurgen, 4,645,260, Cl. 297-35.000.

Kapp, Manfred; Gattermeyer-Kapp, Ulrike; and Harty, Alexander, 4,685,732, Cl. 297-35.000.

Logan, David J., to Metromedia, Inc. Method and apparatus for improving gray scale resolution in an ink jet printing system. 4,638,373, 1-20-87, Cl. 358-298.000.

Logan, David J., to Metromedia Company. Method and apparatus for controlling ink-jet color printing heads. 4,680,596, 7-14-87, Cl. 346-140.0PD.

Logan, David J.; Wood, Kenneth O.; Hernandez, William; and Edwards, Richard L., to Gerber Scientific Products, Inc. Method and apparatus for making a pattern for a lens opening in an eyeglass frame. 4,711,035, 12-8-87, Cl. 33-200.000.

Logan, Douglas P.; Cornelius, Thomas E., III; and Rey, Susan P., to Calgon Corporation. Orthophosphate-containing desalination scale inhibitors. 4,634,532, 1-6-87, Cl. 210-697.000.

Logan, Emanuel L.; Kelly, Michael A.; and Beigel, Bruce G., to Reliable Security Systems, Inc. Magnetic emergency exit door lock with time delay. 4,652,028, 3-24-87, Cl. 292-251.500.

Logan, Emanuel L., Jr. Apparatus for securing a pivoted member such as a toilet seat lid. 4,651,358, 3-24-87, Cl. 4-253.000.

Logan, Emmanuel L., Jr.: *See—*

Kelly, Michael A.; Beigel, Bruce G.; and Logan, Emmanuel L., Jr., 4,703,962, Cl. 292-251.500.

Logan, James D.: *See—*

Talbott, John W.; Peters, Thomas E.; and Logan, James D., 4,664,856, Cl. 264-24.000.

Logan, John K. Microwave probe fixture. 4,686,463, 8-11-87, Cl. 324-158.00P.

Logan, Joseph S.: *See—*

Bumble, Bruce; Cuomo, Jerome J.; Logan, Joseph S.; and Rossnagel, Steven M., 4,637,853, Cl. 156-345.000.

Logan Manufacturing Company: *See—*

Beeley, Micheal G.; and Blair, Bruce W., 4,651,451, Cl. 37-219.000.

Logan, Maurus C.; and Sladen, Francis, to Thomas & Betts Corporation. Movable closure for optical elements. 4,673,242, 6-16-87, Cl. 350-96.200.

Logan, Peter W.: *See—*

Kenworthy, Ian C.; Gettins, Robert B.; Logan, Peter W.; Jeambar, Patrick; and Vuillaume, Andre, 4,666,390, Cl. 425-86.000.

Logan, Ralph A.: *See—*

Dolan, Gerald J.; Logan, Ralph A.; Temkin, Henryk; and Wilt, Daniel P., 4,701,995, Cl. 437-129.000.

Logan, Robert T.; Redpath, James; and Roy, Robert G., to Akzo N.V. Indene and naphthalene derivatives. 4,705,782, 11-10-87, Cl. 514-150.000.

Logan, Robert T.: *See—*

Redpath, James; Logan, Robert T.; McFadzen, David B.; and Roy, Robert G., 4,665,206, Cl. 549-51.000.

Logan, Thomas W., to Dana Corporation. Planetary wheel end with wet brake. 4,646,880, 3-3-87, Cl. 188-18.00A.

Logan Western Road, Inc.: *See—*

Berry, Vernon D., 4,700,786, Cl. 172-799.500.

Logas, Duane K., to Adams Rite Manufacturing Co. Multiple-bolt locking mechanism for sliding doors. 4,643,005, 2-17-87, Cl. 70-95.000.

LogE/Dunn Instruments, Inc.: *See—*

Torrano, Michael A., Jr.; Lyon, George E.; and Haddick, David H., 4,679,087, Cl. 358-168.000.

Loge, Olaf: *See—*

Skuballa, Werner; Raduchel, Bernd; Vorbruggen, Helmut; Elger, Walter; and Loge, Olaf, 4,699,920, Cl. 514-530.000.

Logeat, Michel: *See—*

Bonin, Yves; and Logeat, Michel, 4,704,417, Cl. 524-140.000.

Logel, Bernard; and Reymann, Jean-Charles, to Societe de Dietrich & Cie, S.A. Electro-domestic oven having a catalytic reactor with a depression baffle. 4,654,508, 3-31-87, Cl. 219-400.000.

Logemann, Helmut, to U.S. Philips Corporation. Circuit arrangement for preventing unauthorized access to a communication system which is protected by a subscriber-specific password. 4,661,991, 4-28-87, Cl. 455-26.100.

Logemann, Horst, to Bruggemann & Brand GmbH & Co. KG. Parachute system. 4,687,160, 8-18-87, Cl. 244-142.000.

Loges, Joseph T.: *See—*

Trick, William A.; and Loges, Joseph T., 4,698,999, Cl. 73-49.800.

LogEtronics, Inc.: *See—*

Cagey, Lee B., 4,709,913, Cl. 271-207.000.

Loggers, John J. Collision risk assessment system. 4,677,753, 7-7-87, Cl. 33-264.000.

Logging Development Corporation: *See—*

Hamilton, Douglas D.; Paley, Robert M.; and Viereck, Hans, 4,690,185, Cl. 144-34.00R.

Loggy, Albert D. Modular reinforced building structure and method. 4,683,689, 8-4-87, Cl. 52-80.000.

Logic, Jeffrey A.; Awe, Russell C.; Costello, Norman F.; and Saperstein, Zalman P., to Modine Manufacturing Company. Header plate-tank connection. 4,651,815, 3-24-87, Cl. 165-76.000.

Logic, Jeffrey A.: *See—*

Saperstein, Z. Philip; Arneson, Dean A.; Larrabee, Scott R.; Logic, Jeffrey A.; Costello, Norman F.; and Awe, Russell C., 4,688,311, Cl. 29-157.30R.

LOGIC s.r.l.: *See—*

Bellini, Omero; Mantovani, Lucio; and Menini, Giulio, 4,676,282, Cl. 141-1.000.

Logical Services, Inc.: *See—*

Nichols, John L., 4,701,847, Cl. 364-200.000.

Logicar A/S: *See—*

Jensen, Jakob, 4,712,827, Cl. 296-99.00R.

Logie, Frank M., to Lucas Industries public limited company. Winding method. 4,677,743, 7-7-87, Cl. 29-596.000.

Logie, Frank M., to Lucas Industries public limited company. Electromagnetic actuator. 4,716,393, 12-29-87, Cl. 335-261.000.

Logier, Regis: *See—*

Pieronne, Alain; Soots, Georges; Logier, Regis; and Delecroix, Michel, 4,662,355, Cl. 128-1.00D.

Login, Robert B.: *See—*

Chaudhuri, Ratan K.; Login, Robert B.; and Tracy, David J., 4,713,463, Cl. 548-517.000.

Tracy, David J.; Login, Robert B.; and Hashem, Mohamed M., 4,698,412, Cl. 528-323.000.

Logothetis, Anestis L.; and Stewart, Charles W., to Du Pont de Nemours, E. I., and Company. Blends of fluoroplastics and fluoroelastomers. 4,713,418, 12-15-87, Cl. 525-200.000.

Logsdon, Gary L.; Scheevel, Mark R.; and Williams, Frank A., Jr., to Burroughs Corporation. Graph manager for a reduction processor evaluating programs stored as binary directed graphs employing variable-free applicative language codes. 4,644,464, 2-17-87, Cl. 364-200.000.

Logsdon, Gary L.; Scheevel, Mark R.; and Bolton, Brent C., to Burroughs Corporation. Parallel register transfer mechanism for a reduction processor evaluating programs stored as binary directed graphs employing variable-free applicative language codes. 4,654,780, 3-31-87, Cl. 364-200.000.

Logsdon, Terance B., Jr.; and Fisher, Donald L., to American Standard Inc. Refrigeration tubing joint. 4,693,501, 9-15-87, Cl. 285-173.000.

Logullo, Francis M., Sr.; Wu, Yun-Tai; and Zahr, George E., to Du Pont de Nemours, E. I., and Company. Composites. 4,678,821, 7-7-87, Cl. 523-205.000.

Logwood, Dennis J.; Haq, Mohammed E. U.; Reed, John A.; and Karp, Joel A., to Visic, Inc. MOS/CMOS memory cell. 4,679,171, 7-7-87, Cl. 365-154.000.

Loh, Horace H.: *See—*

Hosobuchi, Yoshio; Lee, Nancy M.; Loh, Horace H.; and Chang, Jaw-Kang, 4,684,624, Cl. 514-15.000.

Loh Optikmaschinen Kommanditgesellschaft: *See—*

Brueck, Erhard, 4,653,233, Cl. 51-124.00L.

Lohaus, Gerhard: *See—*

Dittmar, Walter; Futterer, Eberhard; and Lohaus, Gerhard, 4,711,775, Cl. 424-70.000.

Lohe, Rainer: *See—*

Schrudde, Reinhold; Lohe, Rainer; and Hampel, Klaus, 4,643,113, Cl. 112-199.000.

Loheac, Charles, to Tabur Caoutchouc. Keyboard for the control box of an electric apparatus. 4,710,597, 12-1-87, Cl. 200-5.00A.

Lohez, Pierre: *See—*

Douchy, Marc; Lohez, Pierre; Malecot, Jean-Guy; and Retali, Gilbert, 4,656,007, Cl. 422-64.000.

Lohman, Oskar E., to AB Trama. Brake device for a cycle. 4,638,890, 1-27-87, Cl. 188-24.170.

Lohmann, Arthur M.: *See—*

Haglund, Steve A.; Lohmann, Arthur M.; and Pickering-Johnson, Sharon A., 4,712,478, Cl. 102-424.000.

Lohmann, Bernard: *See—*

Reichel, Anton; Lohmann, Bernard; Kolb, Eugen; Hochkonig, Manfred; Burst, Hermann; and Kretschmer, Helmut, 4,690,204, Cl. 165-44.000.

Lohmar, Elmar: *See—*

Muller, Heinz; Lohmar, Elmar; and Scholz, Harald, 4,678,482, Cl. 55-71.000.

Lohmeijer, Johannes H. G. M.; and Heuschen, Jean M. H., to General Electric Company. Polymer mixture with polycarbonate and polyester. 4,654,400, 3-31-87, Cl. 525-64.000.

Lohmeijer, Johannes H. G. M.: *See—*

de Munck, Johannes W. J.; and Lohmeijer, Johannes H. G. M., 4,647,594, Cl. 521-146.000.

Lohmeyer, Charles W.; Schlosser, Erich J.; Tucker, James E.; Stephen, James C.; Leja, Andrzej; Beecher, John, III; Simpkins, Ronald W.; and Pestka, Donald E., to Weber-Stephen Products Co. Portable gas grill. 4,677,964, 7-7-87, Cl. 126-41.00R.

Lohn, Gerd, to Kaltenbach & Voigt GmbH & Co. Dental handpiece. 4,642,051, 2-10-87, Cl. 433-100.000.

Lohn, Paul, to Control Specialties Co., Inc. Orifice plate seal. 4,633,911, 1-6-87, Cl. 138-44.000.

Lohneis, Earl R.; and Woythal, Robert T., to Kearney & Trecker Corporation. High speed toolholder for a machining center. 4,679,970, 7-14-87, Cl. 408-128.000.

Lohner, Manfred; and Posselt, Klaus, to Dolorgiet Beteiligungs-GmbH. Ibuprofen-containing soft gelatin capsules and process for preparing same. 4,690,823, 9-1-87, Cl. 424-456.000.

Lohner, Martin; and Prestel, Fritz, to BSG-Schalttechnik GmbH & Co. KG. Rotary potentiometer with switch. 4,682,142, 7-21-87, Cl. 338-172.000.

Lohnherr, Ludger, to Krupp Polysius Ag. Sifter. 4,693,811, 9-15-87, Cl. 209-139.200.

Lohnherr, Ludger: *See—*
- Henne, Heinrich; Blasczyk, Gotthardt; Eickholt, Hubert; and Lohnherr, Ludger, 4,694,994, Cl. 241-79.100.

Lohr & Bromkamp GmbH: *See—*
- Aucktor, Erich, and Gartner, Gunter, 4,678,453, Cl. 464-144.000.
- Welschof, Hans-Heinrich; and Schoneberger, Joachim, 4,698,047, Cl. 464-145.000.

Lohr, Hans-Gunter: *See—*
- Herrmann, Gunter; Lohr, Hans-Gunter; and Mozzi, Josef W., 4,685,991, Cl. 156-344.000.

Lohr & Herrmann GmbH: *See—*
- Herrmann, Gunter; Lohr, Hans-Gunter; and Mozzi, Josef W., 4,685,991, Cl. 156-344.000.

Lohr, Josef P.: *See—*
- Hilboll, Gerd; Prop, Gerrit; Borbe, Harald; Lohr, Josef P.; and Doppelfeld, Ille-Stephanie, 4,643,998, Cl. 514-252.000.

Lohr, Karl-Heinz; Kohberg, Ewald; Kuchheuser, Werner; and Dorhmann, Wolfgang, to Boge GmbH. Collision damper having a damping piston and a deformable tube connected thereto. 4,641,872, 2-10-87, Cl. 293-133.000.

Lohr S.A.: *See—*
- Andre, Jean-Luc; and Fity, Christian, 4,682,922, Cl. 410-30.000.
- Fity, Christian; and Andre, Jean-Luc, 4,668,142, Cl. 410-26.000.

Lohr, Thomas E., to Allen Industries, Inc. Method and apparatus for making a sheet of material. 4,642,153, 2-10-87, Cl. 156-296.000.

Lohrengel, Gregor, to Huls Aktiengesellschaft. Method of concentrating polyphenylene ether solutions. 4,692,482, 9-8-87, Cl. 523-340.000.

Lohrenz, Marold H.; Thies, Joel O.; and Jednacz, Scott T., to Telex Computer Products, Inc. Tape deck having improved tape path. 4,700,909, 10-20-87, Cl. 242-182.000.

Lohrey, Cecil R.: *See—*
- Fullenkamp, Eugene H.; and Lohrey, Cecil R., 4,662,524, Cl. 211-190.000.

Lohrmann, Gerhard; and Roehrer, Kurt, to Mannesmann Aktiengesellschaft. Feeder for a printer. 4,650,358, 3-17-87, Cl. 400-616.200.

Lohrmann, Gerhard, to Mannesmann Aktiengesellschaft. Transporting device for marginal punched webs. 4,652,160, 3-24-87, Cl. 400-616.200.

Lohrmann, Peter C.: *See—*
- Paul, Kermit D.; and Lohrmann, Peter C., 4,662,799, Cl. 406-14.000.

Lohse, Friedrich: *See—*
- Berger, Joseph; and Lohse, Friedrich, 4,677,047, Cl. 430-283.000.
- Finter, Jurgen; Fischer, Walter; and Lohse, Friedrich, 4,657,842, Cl. 430-280.000.

Lohstroh, Jan; and Josquin, Wilhelmus J. M. J., to U.S. Philips Corporation. Semiconductor device having silicon conductor tracks connected by a metal silicide track. 4,680,619, 7-14-87, Cl. 357-86.000.

Loi, Chay H., to Nearly Me. Method for manufacturing a breast prosthesis. 4,701,230, 10-20-87, Cl. 156-145.000.

Loiacono, Gabriel M.: *See—*
- Shone, Michael F.; and Loiacono, Gabriel M., 4,679,198, Cl. 372-41.000.

Loiacono, Joseph, to Kenco Optics, Inc. Monolithic reinforced eyeglass frame and friction welding method for manufacturing same. 4,690,523, 9-1-87, Cl. 351-129.000.

Loier, Chantal: *See—*
- Coulon, Andre; Loier, Chantal; and Badeau, Jean-Pierre, 4,689,095, Cl. 148-325.000.

Loire, Rene, to Morrison-Knudsen Company, Inc. Arrestor for large drifting objects. 4,662,790, 5-5-87, Cl. 405-212.000.

Loiselle, Remy: *See—*
- Klein, Frank; and Loiselle, Remy, 4,676,382, Cl. 211-105.100.

Loisy, Francois: *See—*
- Germain, Jean-Luc; Janneteau, Eric; Loisy, Francois; and Honore, Joel, 4,688,627, Cl. 165-11.100.

Loix, Gilbert. Folding ladder. 4,655,319, 4-7-87, Cl. 182-96.000.

LoJacono, Francis X.; and Roberts, Janet S. Support bracket. 4,702,448, 10-27-87, Cl. 248-231.700.

Lojek, John S.; and Martin, Donald B., to Martin Feed Mills Ltd. Absorbent material. 4,676,196, 6-30-87, Cl. 119-1.000.

Lojko, Jan: *See—*
- Lojko, Jozef; and Lojko, Jan, 4,653,679, Cl. 223-115.000.

Lojko, Jozef; and Lojko, Jan. Shoe off aid. 4,653,679, 3-31-87, Cl. 223-115.000.

Lojovich, Obrey. Manicure file and method of making same. 4,683,898, 8-4-87, Cl. 132-76.400.

Lok, Brent M.; Vail, Lawrence D.; and Flanigen, Edith M., to Union Carbide Corporation. Iron-aluminum-phosphorus-silicon-oxide molecular sieves. 4,683,217, 7-28-87, Cl. 502-214.000.

Lok, Brent M. T.; Marcus, Bonita K.; and Flanigen, Edith M., to Union Carbide Corporation. Titanium-aluminum-phosphorus-silicon-oxide molecular sieves. 4,684,617, 8-4-87, Cl. 502-214.000.

Lok, Brent M. T.; Marcus, Bonita K.; and Flanigen, Edith M., to Union Carbide Corporation. Manganese-aluminum-phosphorus-silicon-oxide molecular sieves. 4,686,092, 8-11-87, Cl. 423-306.000.

Lok, Brent M. T.; Marcus, Bonita K.; and Flanigen, Edith M., to Union Carbide Corporation. Titanium-aluminum-silicon-oxide molecular sieve compositions and process for preparing the same. 4,707,345, 11-17-87, Cl. 423-326.000.

Lok, Brent M. T.: *See—*
- Flanigen, Edith M.; Lok, Brent M. T.; Patton, Robert L.; and Wilson, Stephen T., 4,686,093, Cl. 423-306.000.
- Gortsema, Frank P.; and Lok, Brent M. T., 4,684,511, Cl. 423-305.000.

Lok, Cornelis M.: *See—*
- Oudejans, Johannes C.; Nootenboom, Peter; Ganguli, Keshab L.; and Lok, Cornelis M., 4,683,088, Cl. 260-409.000.

Lok, Kar P.: *See—*
- Hair, Michael L.; Lok, Kar P.; Ober, Christopher K.; Croucher, Melvin D., and Wong, Raymond W., 4,680,332, Cl. 524-377.000.
- Hair, Michael L.; Lok, Kar P.; and Winnik, Francoise M., 4,705,567, Cl. 106-20.000.
- Ober, Christopher K.; and Lok, Kar P., 4,652,508, Cl. 430-109.000.

Lok, Roger: *See—*
- Przyklek-Elling, Rosemary; Gunther, Wolfgang H. H.; and Lok, Roger, 4,661,438, Cl. 430-423.000.
- Przyklek-Elling, Rosemary; Gunther, Wolfgang H. H.; and Lok, Roger, 4,677,202, Cl. 544-1.000.

Loken, Michael R.: *See—*
- Recktenwald, Diether J.; Kerndt, Rickie S.; Loken, Michael R.; and Chen, Chia H., 4,704,891, Cl. 73-1.00R.
- Wardlaw, Stephen C.; Levine, Robert A.; Rodriguez, Rodolfo R.; and Loken, Michael R., 4,695,553, Cl. 436-177.000.

Lokken, Donald; Berg, Lawrence; and Berg, Lynda. Portable travel safe. 4,667,491, 5-26-87, Cl. 70-63.000.

Lokken, Oddvin, to Dento-Med Industries Incorporated. Denture adherent powder. 4,664,630, 5-12-87, Cl. 433-180.000.

Lolift Verwaltungs GmbH: *See—*
- Lehmann, Rolaf; and Burmeister, Sven, 4,658,432, Cl. 383-20.000.

Loliger, Willi, to Nestec S.A. Device for damping fluid shocks in pipe systems. 4,667,699, 5-26-87, Cl. 138-31.000.

Lolley, David R.: *See—*
- Lange, Ronald W.; Reynolds, David F.; Lolley, David R.; and Freeman, Gary L., 4,713,881, Cl. 29-724.000.

Lollis, Charles A.: *See—*
- Cobb, Ronald W.; Lollis, Charles A.; and Crane, Nancy S., 4,641,448, Cl. 40-606.000.

Lomax, Donald P.; and Boggs, Ronald M. Method for making a trimetallic cylinder. 4,679,294, 7-14-87, Cl. 29-460.000.

Lombard, Claude; Moyses, Claude; Catier, Gerard; and Montaron, Bernard, to Regie Nationale des Usines Renault; and Renix Electronique. Axial acceleration sensor. 4,637,246, 1-20-87, Cl. 73-35.000.

Lombard, Claude; Brisset, Jean-Paul; Catier, Gerard; Marais, Jean-Luc; and Zammarchi, Gino, to Regie Nationale des Usines Renault. Angular displacement pickup, particularly for the detection of torque in power steering. 4,682,104, 7-21-87, Cl. 324-208.000.

Lombard, Claude; Brisset, Jean-Paul; Marais, Jean-Luc; and Catier, Gerard, to Regie Nationale des Usines Renault. Device for electrical actuation of the accelerator of an internal combustion engine. 4,702,208, 10-27-87, Cl. 123-339.000.

Lombard, Gerard, to Essilor International (Compagnie Generale d'Optique). Workpiece holder apparatus for surfacing optical lenses. 4,653,234, 3-31-87, Cl. 51-216.0LP.

Lombard, Paul W. Flying toy. 4,669,995, 6-2-87, Cl. 446-48.000.

Lombard, Roger, to Automobiles Peugeot; and Automobiles Citroen. Single rocker device for actuating two valves. 4,635,679, 1-13-87, Cl. 137-601.000.

Lombard, Roger: *See—*
- Gallot, Jean-Claude; Lauvin, Pierre; and Lombard, Roger, 4,671,222, Cl. 123-90.270.

Lombardi, Anthony, to Kings Electronics Co., Inc. Co-axial isolated ground bulkhead receptacle. 4,652,074, 3-24-87, Cl. 339-177.00R.

Lombardi, Edward J.: *See—*
- Neuman, Harold L.; and Lombardi, Edward J., 4,646,719, Cl. 128-1.00D.

Lombardi, Gino: *See—*
- Vallauri, Ubaldo; and Lombardi, Gino, 4,654,241, Cl. 428-36.000.

Lombardi, Michel; and Gerard, Jean-Louis, to Societe Anonyme D.B.A. Assembly component for a disc brake. 4,641,730, 2-10-87, Cl. 188-73.450.

Lombardi, Steven A.; and Potter, David O., to Motorola, Inc. Power distribution device. 4,642,479, 2-10-87, Cl. 307-141.000.

Lombardi, Steven A.; and Potter, David O., to Motorola, Inc. Skew insensitive fault detect and signal routing device. 4,656,634, 4-7-87, Cl. 371-68.000.

Lombardi, Steven E.: *See—*
- Johnson, Harold R.; and Lombardi, Steven E., 4,667,874, Cl. 236-10.000.

Lombardi, William T.: *See—*
- Campbell, Joseph I.; and Lombardi, William T., 4,670,001, Cl. 493-413.000.

Lombardini, Lapo; and Bardi, Gianluca, to Officine Galileo S.p.A. Cryogenic pump with refrigerator with the geometry of the shields, suitable for achieving a high efficiency and an extended life. 4,691,534, 9-8-87, Cl. 62-55.500.

Lombardino, Joseph G.; and Marfat, Anthony, to Pfizer Inc. Cyclic prodrugs of antiinflammatory oxicams. 4,656,265, 4-7-87, Cl. 544-33.000.

Lombardino, Joseph G.: *See—*

Crawford, Thomas C.; Keely, Stanley L.; Larson, David L.; Lombardino, Joseph G.; and Maciejko, James J., 4,672,061, Cl. 514-222.000.

Lombardo, Andrew T.: *See—*

Puglia, Wayne J.; Lombardo, Andrew T.; Patanasinth, Kanit J.; and Vink, Walter, 4,659,582, Cl. 426-549.000.

Lombardo, Frank; Jernigan, Edward L.; and Furze, Paul, to Dixon Industries Corporation. Apparatus and process for etching fluoroplastics. 4,637,856, 1-20-87, Cl. 156-637.000.

Lombardozzi, Lucio. Thermal panel. 4,636,444, 1-13-87, Cl. 428-596.000.

Lombart, Christian: *See—*

Daurelles, Jacques; and Lombart, Christian, 4,661,357, Cl. 426-37.000.

Lomecka, Chris, to Burndy Corporation. Connector for individual conductors. 4,671,601, 6-9-87, Cl. 439-404.000.

Lonardi, Emile; and Schmit, Louis. Apparatus for the processing and scrubbing of gas entrained with particulate matter. 4,668,253, 5-26-87, Cl. 55-215.000.

Lonardi, Emile: *See—*

Bernard, Gilbert; Breden, Emile, and Lonardi, Emile, 4,714,396, Cl. 414-161.000.

Lonardi, Silvano; and Ottofaro, Fulvio, to Glaxo S.p.A. Mobile phase selector device for a chromatographic apparatus. 4,669,502, 6-2-87, Cl. 137-624.180.

Lonati, Francesco, to Lonati S.p.A. Circular knitting machine incorporating a device for setting to work knitting cams, in particular for hose knitting. 4,708,002, 11-24-87, Cl. 66-40.000.

Lonati, Francesco, to Lonati S.p.A. Circular knitting machine incorporating a stitch density adjuster device. 4,712,390, 12-15-87, Cl. 66-54.000.

Lonati S.p.A.: *See—*

Lonati, Francesco, 4,708,002, Cl. 66-40.000.

Lonati, Francesco, 4,712,390, Cl. 66-54.000.

Londerville, Steve B.: *See—*

Binasik, Chester S.; and Londerville, Steve B., 4,685,882, Cl. 431-182.000.

London, J. Reid; Bell, Cecil R., Jr.; Edwards, A. Russell; Lathery, Willie M.; Efird, Lee A.; Porter, Richard M.; Shaw, Stephen K.; Costello, Thomas J.; Pike, August A.; Bell, Donald G., and Setliff, Harold, to Sara Lee Corporation. Apparatus for forming and presenting bias cut gussets in the formation of panty hose garments. 4,640,162, 2-3-87, Cl. 83-152.000.

London, J. Reid; Bell, Cecil R., Jr.; Edwards, A. Russell; Lathery, Willie M.; Efird, Lee A.; Porter, Richard M.; Shaw, Stephen K.; Costello, Thomas J.; Pike, August A.; Bell, Donald G.; and Setliff, Harold, to Sara Lee Corporation. Method and apparatus for forming and presenting bias cut gussets in the formation of panty hose garments. 4,704,976, 11-10-87, Cl. 112-262.200.

London, Jack W.: *See—*

Kapland, Mitchell A.; Norikane, Kiyoshi; and London, Jack W., 4,641,449, Cl. 42-65.000.

London, Jasper R.: *See—*

Bell, Cecil R., Jr.; Thomas, Richard; London, Jasper R.; and Sizemore, Walter R., 4,658,564, Cl. 53-250.000.

London, Philip E.: *See—*

Erman, Lee D.; Clancey, William J.; London, Philip E.; Scott, A. Carlisle; Bennett, James S.; and Lark, Jay S., 4,658,370, Cl. 364-513.000.

London & Scandinavian Metallurgical Co. Limited: *See—*

Kellie, James L. F.; and Cowell, Andrew J. J., 4,708,739, Cl. 75-76.000.

London, Steven M.: *See—*

Bales, Bruce M.; London, Steven M.; and Schmidt, Nancy K., 4,661,974, Cl. 379-198.000.

Londrigan, Michael E., to Jim Walter Resources, Inc. Reaction products of terephthalic acid residues and polycarboxylic acid-containing polyols and polymeric foams obtained therefrom. 4,652,591, 3-24-87, Cl. 521-172.000.

Londrigan, Michael E.; and Skowronski, Michael J., to Jim Walter Resources, Inc. Polyester polyols modified by low molecular weight glycols and cellular foams therefrom. 4,714,717, 12-22-87, Cl. 521-131.000.

Lone Star Industries, Inc.: *See—*

Heitzmann, Richard E.; Fitzgerald, Mark; and Sawyer, James L., 4,640,715, Cl. 106-85.000.

Heitzmann, Richard F.; Fitzgerald, Mark; and Sawyer, James L., 4,642,137, Cl. 106-85.000.

Loney, Allan F.; and Ruhter, Martin L., to Deere & Company. Function control linkage for a vehicle. 4,664,221, 5-12-87, Cl. 180-315.000.

Loney, Allan F.: *See—*

Ruhter, Martin L.; and Loney, Allan F., 4,664,220, Cl. 180-315.000.

Ruhter, Martin L.; and Loney, Allan F., 4,682,787, Cl. 280-775.000.

Long, Alexander, to Electromotive, Inc. Precision distributorless ignition control system for internal combustion engines. 4,649,881, 3-17-87, Cl. 123-418.000.

Long, Barry W.; and Schmitt, Peter J., to Goodyear Tire & Rubber Company, The. Belting and method of making same. 4,668,54 5-26-87, Cl. 427-369.000.

Long, Bill. Recreational cooler and speaker system. 4,700,395, 10-13-8 Cl. 381-90.000.

Long, Charles A., Jr., to Long Enterprises, Inc. Apparatus for dispersing sludge with gas impingement. 4,659,464, 4-21-87, Cl. 210-221.10

Long, Charles A., Jr., to Long Technologies, Inc. Self-contained transportable apparatus for inserting a liner into a pipe. 4,668,12 5-26-87, Cl. 405-154.000.

Long, Charles A., Jr., to Long Technologies, Inc. Method and apparatus for the installation of a liner within a conduit. 4,685,983, 8-11-8 Cl. 156-64.000.

Long, Charles A., Jr., to Long Enterprises, Inc. Apparatus and process for rapid sewage sludge separation. 4,695,388, 9-22-87, Cl 210-760.000.

Long, Charles W.: *See—*

Bradley, Donald B.; Gaehring, David P.; and Long, Charles W 4,650,582, Cl. 210-402.000.

Long, Dabbs C., to MacGregor Golf Company. Golf putter head 4,693,478, 9-15-87, Cl. 273-164.000.

Long, David E. High altitude reconnaissance platform. 4,697,76 10-6-87, Cl. 244-62.000.

Long, Delmar D., to Dayco Corporation. Elastomer-coated bias reinforcement fabric and method for producing same. 4,637,940, 1-20-8 Cl. 427-176.000.

Long, Delmar D., to Dayco Products, Inc. Elastomer-coated bias reinforcement fabric and method for producing same. 4,711,79 12-8-87, Cl. 427-176.000.

Long, Delmar D.: *See—*

Anderson, John F., Jr.; and Long, Delmar D., 4,661,399, C 428-246.000.

Long, Dennis L. Modular unit adapted for office use. 4,637,177, 1-20-8 Cl. 52-36.000.

Long, Don W.: *See—*

Barton, Jerry M.; Long, Don W.; and Lotts, Kenneth D., 4,658,03 Cl. 546-167.000.

Los, Marinus; Long, Don W.; and Withers, Gregory P., 4,709,03 Cl. 546-167.000.

Long, Donald. Football place kicking apparatus and metho 4,648,59 3-10-87, Cl. 273-55.00B.

Long, Edward A.: *See—*

Hamilton, James W., Jr.; and Long, Edward A., 4,641,074, C 318-706.000.

Hamilton, James W., Jr.; and Long, Edward A., 4,683,411, C 318-706.000.

Long, Eliot R., to Miply Equipment, Inc. Pattern forming saturator and method. 4,702,943, 10-27-87, Cl. 427-282.000.

Long, Elvina J.: *See—*

Bogart, Jimmie M.; and Long, Elvina J., 4,665,564, Cl. 2-119.00

Long Enterprises, Inc.: *See—*

Long, Charles A., Jr., 4,659,464, Cl. 210-221.100.

Long, Charles A., Jr., 4,695,388, Cl. 210-760.000.

Long, Eric L.: *See—*

Bailey, James R.; and Long, Eric L., 4,681,398, Cl. 350-96.200

Long, Frederick N. Cutting blade and method of use. 4,711,07 12-8-87, Cl. 56-295.000.

Long, Gary N.: *See—*

Pellet, Regis J.; Coughlin, Peter K.; Staniulis, Mark T.; Long, Gary N.; and Rabo, Jule A., 4,666,875, Cl. 502-65.000.

Pellet, Regis J.; Gortsema, Frank P.; Long, Gary N.; and Rabo, Jule A., 4,686,029, Cl. 208-111.000.

Pellet, Regis J.; Best, Donald F.; Long, Gary N.; Rabo, Jule A.; and Wolynic, Edward T., 4,687,754, Cl. 502-65.000.

Long, George E. Motor grader with supplementary surface treatment attachment. 4,643,261, 2-17-87, Cl. 172-2.000.

Long, Gerald M.: *See—*

Yun, Kyung W.; Jones, Othel L.; Long, Gerald M.; and Elson, John P., 4,685,489, Cl. 137-543.150.

Long, Gordon K. California-type shoe. 4,685,223, 8-11-87, Cl 36-16.000.

Long, Gregory F.: *See—*

Bradley, Jerome R.; Halvorsen, Robert M.; and Long, Gregory F. 4,649,950, Cl. 137-549.000.

Bradley, Jerome R.; and Long, Gregory F., 4,655,912, Cl 210-133.000.

Long, Harry A. Temporary dental crown and method of forming the same. 4,678,435, 7-7-87, Cl. 433-218.000.

Long, Harry F.; Misselhorn, Donald J.; and Tomchany, Michael Curtain coating method. 4,656,063, 4-7-87, Cl. 427-420.000.

Long, Jeffrey K.: *See—*

Koch, Frederick W.; and Long, Jeffrey K., 4,654,050, Cl. 44-62.000.

Long, Jerry M.; and Womack, James A., to Innovative Concepts, Inc Portable hanging file and desk top display for floppy disks. 4,641,897, 2-10-87, Cl. 312-183.000.

Long, John A., to Longford Equipment International Limited. Card feeder control. 4,651,983, 3-24-87, Cl. 271-35.000.

Long, John E.: *See—*

Donovan, Dennis; McDonnell, Michael L.; Weigel, Gerald C.; and Long, John E., 4,708,877, Cl. 426-69.000.

Long, John J.: *See—*

Santilli, Donald S.; Long, John J.; and Lewis, Robert T., 4,698,322, Cl. 502-74.000.

Santilli, Donald S.; Long, John J.; and Lewis, Robert T., 4,69[illegible],894, Cl. 502-74.000.

Long, John V.; and Gagliani, John. Forming techniques for shaping polyimide foams. 4,639,343, 1-27-87, Cl. 264-45.500.

Long, John V.; and Gagliani, John. Polyimide adhesive and method of making from lactam, dianhydride mixture and diamine. 4,658,010, 4-14-87, Cl. 528-322.000.

Long, John V.; and Gagliani, John, to Imi-Tech Corporation. Steam resistant modified polyimide foams. 4,708,972, 11-24-87, Cl. 521-185.000.

Long, Judith A.: *See—*

Johnston, Wilbur D., Jr.; Long, Judith A., and Wilt, Daniel P., 4,660,208, Cl. 372-46.000.

Johnston, Wilbur D., Jr.; and Long, Judith A., 4,716,130, Cl. 437-104.000.

Long, Jutta M. Mural type hanging and method making same. 4,657,800, 4-14-87, Cl. 428-102.000.

Long, Kenneth A.: *See—*

Chase, Thomas L.; and Long, Kenneth A., 4,695,045, Cl. 269-152.000.

Long, Margaret N.: *See—*

Morris, Robert C.; Long, Margaret N.; Chin, Timothy C.; and Heller, Donald F., 4,713,820, Cl. 372-41.000.

Long, Marianna M.: *See—*

Urry, Dan W.; and Long, Marianna M., 4,693,718, Cl. 623-11.000.

Long, Marshall. Continuous cooking grill. 4,686,894, 8-18-87, Cl. 99-386.000.

Long, Maurice W. Methods of and circuits for suppressing doppler radar clutter. 4,684,950, 8-4-87, Cl. 342-94.000.

Long, Michael E., to Zenith Electronics Corporation. Synchronizing pulse restoration circuit. 4,667,232, 5-19-87, Cl. 380-15.000.

Long Mile Rubber Company: *See—*

Magee, Arthur W., 4,662,834, Cl. 425-36.000.

Long, Murray D.: *See—*

Jefferies, Keith W.; and Long, Murray D., 4,714,048, Cl. 119-14.080.

Long, Needham L. Swimming motion exerciser. 4,688,791, 8-25-87, Cl. 272-73.000.

Long, Paul D., Jr.: *See—*

Curry, Jay M.; Gray, Edward R.; Davis, Edward L.; Rollo, Edward J., Jr.; and Long, Paul D., Jr., 4,664,307, Cl. 228-145.000.

Long, Peter G.: *See—*

Ellis, Cedric R.; Long, Peter G.; Marshman, Christopher A.; and Gillery, David J., 4,702,246, Cl. 128-303.100.

Long Reach Manufacturing Co.: *See—*

Sinclair, Stuart W., 4,636,131, Cl. 414-621.000.

Sinclair, Stuart W., 4,642,020, Cl. 414-621.000.

Sinclair, Stuart W.; and Lane, Kenneth R., 4,655,672, Cl. 414-661.000.

Long, Robert A., to GTE Products Corporation. Process for deaglomerating and classifying phosphors. 4,643,363, 2-17-87, Cl. 241-20.000.

Long, Robert A.: *See—*

Burgit, Richard A.; Davis, Newton G.; Goyert, Josita M.; Johnson, Keith, Jr.; Long, Robert A.; and Stachura, Joseph F., 4,633,570, Cl. 29-564.400.

Long, Robert W. Collapsible box. 4,650,084, 3-17-87, Cl. 217-12.00R.

Long, Stephen B.: *See—*

Clinkscales, Douglas L.; Long, Stephen B.; and Wheeler, Carl S., 4,664,722, Cl. 148-14.000.

Long, Stuart G.; and Maciocia, Michael J., to General Dynamics, Pomona Division. Method of making packing material with antistatic coating. 4,677,809, 7-7-87, Cl. 53-427.000.

Long, Stuart G.; and Maciocia, Michael J., to General Dynamics, Pomona Division. Electrostatic-free package. 4,707,414, 11-17-87, Cl. 428-511.000.

Long Technologies, Inc.: *See—*

Long, Charles A., Jr., 4,668,125, Cl. 405-154.000.

Long, Charles A., Jr., 4,685,983, Cl. 156-64.000.

Long, William B.; Over, Gary L.; Shaffer, Howard R.; and Shuey, John R., to AMP Incorporated. Breakaway electrical connector. 4,684,192, 8-4-87, Cl. 439-374.000.

Long, William B.: *See—*

Hamsher, Wilbur A., Jr.; and Long, William B., 4,690,647, Cl. 439-92.000.

Long, William E.: *See—*

Tirel, Malcolm D.; and Long, William E., 4,687,846, Cl. 544-140.000.

Longabaugh, Charles R., to AMF Incorporated. Method and apparatus for controlling cooking cycles in a cooking system. 4,636,949, 1-13-87, Cl. 364-400.000.

Longacre, Andrew, Jr.: *See—*

Heller, James W.; Kugler, Andrew J.; Longacre, Andrew, Jr.; and Williams, Daniel L., 4,688,582, Cl. 128-746.000.

Longacre, James R.: *See—*

Clayman, Henry; and Longacre, James R., 4,634,441, Cl. 623-6.000.

Clayman, Henry; and Longacre, James R., 4,642,116, Cl. 623-6.000.

Longas, Socrates A.: *See—*

Leverance, Robert A.; and Longas, Socrates A., 4,639,902, Cl. 367-93.000.

Longcoy, Dennis F.: *See—*

Bingley, John D.; and Longcoy, Dennis F., 4,656,828, Cl. 60-203.100.

Longden, Larry L., to IRT Corporation. Nuclear event detector. 4,687,622, 8-18-87, Cl. 376-254.000.

Longenecker, Bruce C.: *See—*

Keller, Joseph R.; and Longenecker, Bruce C., 4,696,708, Cl. 156-64.000.

Longenecker, Francis S.; Moeder, Kevin J.; and Wolff, Jeffrey L., to TE-Co. Workpiece securing apparatus for a machine tool. 4,711,437, 12-8-87, Cl. 269-91.000.

Longeray, Remi; Lanteri, Pierre; Mathia, Thomas; Jodelet, Francois; and Segura, Serge, to Skis Rossignol S.A. Antireverse running-surface treatment for cross-country skis. 4,705,815, 11-10-87, Cl. 521-160.000.

Longeway, Paul A., to RCA Corporation. Vapor phase growth of III-V materials. 4,699,675, 10-13-87, Cl. 437-81.000.

Longford Equipment International Limited: *See—*

Long, John A., 4,651,983, Cl. 271-35.000.

Longhenry, Raymond L. Oriented array of self-locking fasteners. 4,681,222, 7-21-87, Cl. 206-347.000.

Longhini, David A.: *See—*

Johnson, Harlan B.; Krivak, Thomas G.; and Longhini, David A., 4,681,750, Cl. 423-339.000.

Longhouse, Richard E.; and Vona, Nick, to General Motors Corporation. Engine cooling fan and fan shrouding arrangement. 4,685,513, 8-11-87, Cl. 165-121.000.

Longhouse, Richard E.: *See—*

Razinsky, Elias H.; Roberts, William B.; and Longhouse, Richard E., 4,692,098, Cl. 416-223.00R.

Longman, Robert J.: *See—*

Pettigrew, Robert M.; and Longman, Robert J., 4,657,780, Cl. 427-54.100.

Pettigrew, Robert M.; Gardner, Keith; and Longman, Robert J., 4,703,469, Cl. 369-101.000.

Longmire, David: *See—*

Woodley, William; and Longmire, David, 4,697,599, Cl. 128-734.000.

Longo, Lorenzo L.: *See—*

Little, Thomas N.; Longo, Lorenzo L.; and Chan, Sun-Shiu D., 4,684,832, Cl. 307-520.000.

Longo, Nicholas: *See—*

Longo, Paul; Longo, Nicholas; and Wiktorski, Chester, 4,650,141, Cl. 248-118.000.

Longo, Paul; Longo, Nicholas; and Wiktorski, Chester. Device for assisting bracelet attachment. 4,650,141, 3-17-87, Cl. 248-118.000.

Longo, William E.: *See—*

Goldberg, Eugene P.; Longo, William E.; and Iwata, Hiroo, 4,671,954, Cl. 424-450.000.

Longobardi, Roberto. Fuel-economy and emission-control device for internal combustion engines. 4,715,354, 12-29-87, Cl. 123-590.000.

Longora, Ritchie L., to F. L. Saino Manufacturing Co. Supervising apparatus. 4,698,967, 10-13-87, Cl. 60-325.000.

Longreen Limited: *See—*

Hung, Lam H., 4,694,815, Cl. 124-27.000.

Longrigg, Paul, to United States of America, Energy. Wind energy conversion system. 4,651,017, 3-17-87, Cl. 290-44.000.

Longshore, Theodore F.; and Wanat, Ronald J., to Motorola, Inc. Ceramic transmitter combiner with variable electrical length tuning stub and coupling loop interface. 4,667,172, 5-19-87, Cl. 333-134.000.

Longsworth, Ralph C.; and Steyert, William A., to Air Products and Chemicals, Inc. Parallel wrapped tube heat exchanger. 4,643,001, 2-17-87, Cl. 62-514.0JT.

Longsworth, Ralph C.; and Steyert, William A., to APD Cryogenics Inc. Parallel wrapped tube heat exchanger. 4,697,635, 10-6-87, Cl. 165-147.000.

Longview Fibre Company: *See—*

Nordstrom, Duane M., 4,666,059, Cl. 220-465.000.

Longwell, Brian C.: *See—*

Angell, Eric H.; Aprille, Thomas J.; Azaret, Juan O.; Fang, Rong-Chin; Lee, Byeong G.; Longwell, Brian C.; Sharper, Craig A.; and Spalink, Jan-Dieter, 4,716,561, Cl. 370-55.000.

Longworth, Stuart W.; and Baker, John G., to Dearborn Chemicals Limited. Prevention of corrosion. 4,689,201, 8-25-87, Cl. 422-16.000.

Longyear, Douglas M., Jr.: *See—*

Hirzel, Edgar A.; and Longyear, Douglas M., Jr., 4,671,650, Cl. 356-28.000.

Lonij, Hubertus M. M.: *See—*

Bierhoff, Martinus P. M.; and Lonij, Hubertus M. M., 4,683,561, Cl. 369-45.000.

Lonis, Robert A.: *See—*

Banton, Martin E.; and Lonis, Robert A., 4,699,446, Cl. 350-3.710.

Lonne, Klaus: *See—*

Baasner, Ernst; Lonne, Klaus; and Majewski, Klaus-Peter, 4,659,091, Cl. 277-1.000.

Bechen, Heribert; Giesen, Franz-Josef; Lonne, Klaus; and Majewski, Klaus-Peter, 4,656,085, Cl. 428-290.000.

Lonnecker, Joseph C. A. Universal vegetation cutter or UVC. 4,651,420, 3-24-87, Cl. 30-296.00R.

Lonnoy, Jacques J.: *See—*

Bigot, Georges; and Lonnoy, Jacques J., 4,699,332, Cl. 244-3.110.

de Fleurieu, Bertrand M. C.; Couderc, Jean-Pierre L.; and Lonnoy, Jacques J., 4,659,219, Cl. 356-152.000.

Lonsdale, Randall J.; and Hellekson, Ronald A., to Spectra-Physics, Inc. Trifocal lens for a laser instrument. 4,678,288, 7-7-87, Cl. 350-432.000.

Lonseal Corporation: *See—*

Shoji, Toru; Sugiyama, Mitsuru; Takezawa, Makoto; Akiba, Yuichi; Kaneko, Akira; and Sato, Mituo, 4,673,596, Cl. 427-262.000.

Tomioka, Hisatsugu; Waki, Tazuo; and Sugaya, Hiroyuki, 4,655,327, Cl. 188-290.000.

Tomioka, Hisatsugu; Waki, Tatsuo; and Miyata, Yoshiki, 4,709,783, Cl. 182-8.000.

Lonza Inc.: *See—*
  Gibs, Gabriel J., 4,675,293, Cl. 435-95.000.

Lonza Ltd.: *See—*
  Furrer, Hansjorg, 4,665,936, Cl. 137-1.000
  Grayson, James I., 4,687,856, Cl. 546-341.000
  Hardt, Peter, 4,703,126, Cl. 548-508.000
  Kristen, Ulrich; Haring , Ulrich; Fischer, Francis; and Cron, Alain, 4,713,186, Cl. 252-30.000.
  Kulla, Hans; Lehky, Pavel; and Squaratti, Armand, 4,708,936, Cl. 435-128.000.
  Periard, Jacques; and Cron, Alain, 4,710,307, Cl. 252-18.000.
  Quarroz, Daniel, 4,681,942, Cl. 546-303.000.
  Tenud, Leander; and Gosteli, Jacques, 4,670,192, Cl. 260-501.150.
  Tenud, Leander; and Gosteli, Jacques, 4,692,543, Cl. 558-342.000.

Loo, Johnson, to International Computers Limited. Pipelined data processing apparatus. 4,639,866, 1-27-87, Cl. 364-200.000.

Loo, Johnson, to International Computers Limited. Data processing apparatus having binary multiplication capability. 4,685,077, 8-4-87, Cl. 364-759.000.

Loodberg, Jan A. T.; and Siwersson, Olle L., to AB Scaniainventor. Collapsible wheel-chair. 4,693,490, 9-15-87, Cl. 280-650.000.

Loofbeurrow, James G.; Lewis, William E.; and Pelton, Robert J., to Gott Corporation. Container for freezable liquid. 4,656,840, 4-14-87, Cl. 62-530.000.

Look, Gunter: *See—*
  Gerstner, Richard; Look, Gunter; Seybold, Werner; and Stener, Werner, 4,707,034, Cl. 301-6.00V.

Look, Raymond J.: *See—*
  Bennett, Glenn E.; Look, Raymond J.; Dola, Frank P.; Thurman, Richard E.; and Siwinski, Paul P., 4,680,423, Cl. 174-36.000.
  Gilliam, Kenneth R.; Look, Raymond J.; and Thurman, Richard E., 4,663,098, Cl. 264-104.000.
  Hughes, Richard L.; Turney, Anthony W.; and Look, Raymond J., 4,642,480, Cl. 307-147.000.

Looker, Brian E., to Glaxo Group Limited. Manufacture of antibiotics. 4,665,167, 5-12-87, Cl. 540-225.000.

Looker, Robert, to Satco, Inc. Cargo pallet. 4,690,360, 9-1-87, Cl. 248-346.000.

Loomans, Maurice E.; Matthews, Randall S.; and Miller, Joseph A., to Procter & Gamble Company, The. Novel anti-inflammatory agents, pharmaceutical compositions and methods for reducing inflammation. 4,708,966, 11-24-87, Cl. 514-689.000.

Loomer, Weston R.; and Coons, Randall P., to Litton Systems, Inc. Safety brake for vertical lift. 4,697,977, 10-6-87, Cl. 414-662.000.

Loomis, Bernard; Baiera, Vincent A.; Caldwell, Bennie J.; and Strauss, Gary J., to Hasbro Bradley, Inc. Toy construction with light emitting element. 4,655,721, 4-7-87, Cl. 446-219.000.

Loomis, Russell M., to Railcar Specialties, Inc. Method of reinforcing a covered hopper car hatch. 4,638,743, 1-27-87, Cl. 105-377.000.

Looms, John S. T.: *See—*
  Atkins, Alan D.; Elliott, Kenneth; and Looms, John S. T., 4,714,800, Cl. 174-73.00R.

Looney, Gary W.; and Robinson, Paul H., to RCA Corporation. Method to inhibit autodoping in epitaxial layers from heavily doped substrates in CVD processing. 4,661,199, 4-28-87, Cl. 156-612.000.

Looney, John H., to Xerox Corporation. Document registration system. 4,639,121, 1-27-87, Cl. 355-14.00R.

Looney, John H., to Xerox Corporation. Copy sheet offsetting device. 4,712,786, 12-15-87, Cl. 271-207.000.

Looney, Kevin: *See—*
  Mathus, Gregory; Lyman, George; and Looney, Kevin, 4,690,757, Cl. 210-232.000.

Looney, Ralph W.: *See—*
  Hughes, Vincent L.; and Looney, Ralph W., 4,714,749, Cl. 526-290.000.

Looney, Raymond H., to Baird Manufacturing Company. Overflow vent valve. 4,640,304, 2-3-87, Cl. 137-202.000.

Loontjens, Jacobus A.; and Jacomen, Denise J. L., to Stamicarbon B.V. Catalytic titanium compound, process for the manufacture thereof, and method for the polymerization of alkenes-1 with application of such a titanium component. 4,670,525, 6-2-87, Cl. 526-125.000.

Loontjens, Jacobus A.: *See—*
  de Koning, Adrianus J.; Loontjens, Jacobus A.; Mostert, Hubertus A. M.; and Omloo, Hubertus A. A., 4,684,706, Cl. 526-262.000.

Loop, Floyd D. Pillow or support member for surgical use. 4,637,377, 1-20-87, Cl. 128-1.00R.

Looper, David W.: *See—*
  Frey, Emory L.; Looper, David W.; and Daunis, Eugene J., 4,700,567, Cl. 73-151.000.

Looper, Ernest F. Apparatus and method for measuring and packaging elastic products. 4,634,070, 1-6-87, Cl. 242-67.200.

Looper, Larry L.; and Lory, John C., to Cooper Industries, Inc. Collapsible plunger. 4,669,368, 6-2-87, Cl. 92-259.000.

Loor, Rueyming; M'Timkulu, Thabiso; and DeWitt, Susanne K., to Cetus Corporation. Process for simultaneously detecting multiple antigens using dual sandwich immunometric assay. 4,690,890, 9-1-87, Cl. 435-7.000.

Loor, Rueyming: *See—*
  Johnson, Larry J.; Coates, Stephen R.; and Loor, Rueyming, 4,681,742, Cl. 422-102.000.

Loos, Bruce J., to Monarch Specialty Systems, Inc. Method of calibrating volumetric metering and blending device. 4,667,503, 5-26-87, Cl. 73-3.000.

Loos, Hans: *See—*
  Straube, Axel; and Loos, Hans, 4,638,960, Cl. 244-134.00D.

Loos, Herbert; and Erhardt, Manfred, to Carl Hurth Maschinen- und Zahnradfabrik GmbH & Co. Gearlike tool for dressing abrasive, gearlike, precision machining tools. 4,677,962, 7-7-87, Cl. 125 11.0CD.

Loos, Herbert; and Erhardt, Manfred, to Carl Hurth Maschinen-un Zahnradfabrik Gmbh & Co. Apparatus for manufacturing and working of gears. 4,689,918, 9-1-87, Cl. 51-105.0GG.

Loos, Herbert; and Erhardt, Manfred, to Carl Hurth Maschinen un Zahnradfabrik GmbH & Co. Method for the precision working of th tooth system of bevel gears. 4,694,617, 9-22-87, Cl. 51-287.000.

Loos, Herbert: *See—*
  Erhardt, Manfred; Loos, Herbert; and Reichert, Gerhard, 4,633,619, Cl. 51-105.0GG.
  Erhardt, Manfred; Loos, Herbert; and Reichert, Gerhard, 4,649,671, Cl. 51-287.000.

Loos, Johannes A.; Eitjes, Willem; and de Bruyn, Johannes C. G. H., to NPBI Nederlands Produktielaboratorium voor Bloedtransfusieapparatuur en Infusievloeistoffen B.V. Apparatus for decanting of a blood-plasma layer and a buffy-coat layer from a centrifuge-blood bag. 4,663,032, 5-5-87, Cl. 210-97.000.

Loos, Peter J., to Hughes Tool Company-USA. Simultaneous carburizing and boronizing of earth boring drill bits. 4,655,851, 4-7-87, Cl. 148-6.000.

Looschen, Floyd W., to Xerox Corporation. Variable threshold scan detector utilizing crossover points on photodetectors of the laser beam to monitor the threshold. 4,673,811, 6-16-87, Cl. 250-235.000.

Loose, Gunter: *See—*
  Abthoff, Joerg; Schuster, Hans-Dieter; Loose, Gunter; and Jokl, Bernhard, 4,667,469, Cl. 60-311.000.
  Abthoff, Joerg; Schuster, Hans-Dieter; Loose, Gunter; and Jokl, Bernhard, 4,704,863, Cl. 60-311.000.

Loose, Joachim, to Cetus Corporation. Blind label. 4,700,976, 10-20-87, Cl. 283-101.000.

Loose, Peter W., to European Electronic Systems Limited. Calibration method for an optical measuring system employing reference grids in a series of reference planes. 4,670,659, 6-2-87, Cl. 250-560.000.

Loose, Richard D.: *See—*
  Plesniarski, Edward J.; Loose, Richard D.; and Capo, Juan M., 4,642,853, Cl. 24-163.00R.

Loose, Robert A.; Schlonski, James S.; and Steinkuhler, Claude C., to Westinghouse Electric Corp. Steam generator recirculating system for a pressurized water nuclear reactor. 4,666,662, 5-19-87, Cl. 376-315.000.

Loose, Winfield W., to AMP Incorporated. Insulation displacing barrel terminal. 4,637,675, 1-20-87, Cl. 339-97.00R.

Loose, Winfield W., to AMP Incorporated. Insulation displacing barrel terminal. 4,705,340, 11-10-87, Cl. 439-395.000.

Loosen, Ron. Floppy diskette protection device. 4,695,911, 9-22-87, Cl. 360-133.000.

Looser, Gottlieb. Cutting device. 4,693,157, 9-15-87, Cl. 83-431.000.

Loots, Francois P.: *See—*
  Muller, Jurgen; Loots, Francois P.; and Vanhorebeck, Rem 4,688,917, Cl. 354-320.000.

Loots, Melanie J.; Hall, Steven E.; and Sprague, Peter W., to E. R. Squibb & Sons, Inc. Bicycloheptane substituted ethers. 4,647,585, 3-3-87, Cl. 514-530.000.

Loots, Melanie J.: *See—*
  Campbell, Arthur L.; Evans Radak, Suzanne; and Loots, Melanie J., 4,661,592, Cl. 544-252.000.

Looyenga, Robert W.: *See—*
  Sandvig, Robert L.; Klemm, William A.; Gaines, Jack R.; and Looyenga, Robert W., 4,664,832, Cl. 252-70.000.

Loozen, Hubert J. J.; and van Luit, Pieter J. N., to Akzo N.V. Novel Δ^4- and Δ^5-androstene derivatives and pharmaceutical compositions containing these derivatives. 4,634,694, 1-6-87, Cl. 514-177.000.

LOPAT Enterprises, Inc.: *See—*
  Davis, Lincoln R.; and Flax, Louis, 4,700,986, Cl. 297-157.000.

Lopat Industries, Inc.: *See—*
  Falk, Charles D.; and Davis, Lincoln R., 4,687,373, Cl. 405-128.000.

Lopata, Alexander D.: *See—*
  Giammarco, Nicholas J.; Gimpelson, Alexander; Kaplita, George A.; Lopata, Alexander D.; Scaduto, Anthony F.; and Shepard, Joseph F., 4,707,218, Cl. 156-643.000.

Lopata, Frances G.; and Mei, George C., to Olin Corporation. Non-toxic, non-corrosive rimfire cartridge. 4,674,409, 6-23-87, Cl. 102-471.000.

Lopata, Frances G.; and Mei, George C., to Olin Corporation. Priming method for rimfire cartridge. 4,689,185, 8-25-87, Cl. 264-3.400.

Lopata, Herman, to Lopata, Herman. Fraud resistant credit card system. 4,641,017, 2-3-87, Cl. 235-457.000.

Lopata, Ira L.: *See—*
  Marshall, Howard B.; Kaye, Gordon E.; and Lopata, Ira L., 4,713,005, Cl. 433-180.000.

Loper, Roger K.; and Freeman, Richard A., to Rockwell International Corporation. Digital voice and data frequency modulation circuit. 4,682,123, 7-21-87, Cl. 332-16.00R.

Lopes, Homero V. D. M., to Homero Lopes & Associados/Engenharia e Comercio Ltda. Means and preparation process, for burning, of an emulsion containing water and heavy oil. 4,688,550, 8-25-87, Cl. 126-378.000.

Lopes, John A.; and Stanton, James H., to Diversey Wyandotte Corporation. Antimicrobial sanitizing composition containing n-alkyl and n-alkenyl succinic acid and methods for use. 4,715,980, 12-29-87, Cl. 252-106.000.

Lopes, William J.; and Klosowski, Jerome M., to Dow Corning Corporation. Multiple release mold coating. 4,681,714, 7-21-87, Cl. 264-46.600.

Lopez, Alfred R., to Hazeltine Corporation. Phase shifter control. 4,670,756, 6-2-87, Cl. 342-372.000.

Lopez, Angel, to Jean Greub S.A. Modular machine tool for series machining of parts in a bar. 4,679,295, 7-14-87, Cl. 29-564.800.

Lopez, Arthur W., Jr.: *See—*
Wong, Geoffrey B.; and Lopez, Arthur W., Jr., 4,655,382, Cl. 228-56.300.

Lopez-Berestein, Gabriel, Fainstein, Victor; Hersh, Evan M.; Hopfer, Roy L.; Juliano, Rudolph L.; Mehta, Kapil; and Mehta, Reeta, to University of Texas System, The Board of Regents of the. Composition and method for treatment of disseminated fungal infections in mammals. 4,663,167, 5-5-87, Cl. 514-37.000.

Lopez, Carlos; and Serrano, Jose L., to Piher Navarra, S.A. Devices used for varying the resistance of electrical circuits and the conduction of current in electrical circuits. 4,692,805, 9-8-87, Cl. 338-198.000.

Lopez, Carlos: *See—*
Fox, Jack J.; Watanabe, Kyoichi A., Lopez, Carlos, and Trepo, Christian G., 4,666,892, Cl. 514-49.000.

Lopez, Claudio: *See—*
Sarnoff, Stanley J.; Tarello, William R.; Lopez, Claudio, and Karcher, Daniel W., 4,689,042, Cl. 604-89.000.

Lopez, Conrad S. Toilet flushing mechanism with high/low water volume selectability. 4,700,413, 10-20-87, Cl. 4-324.000.

Lopez-Crevillen, Jose M., to General Motors Corporation. Oil pan isolation mounting and seal. 4,667,628, 5-26-87, Cl. 123-195.00C.

Lopez-Doriga, Juan A., to Sociedad Espanola del Acumulador Tudor, S.A. Electric storage battery. 4,634,642, 1-6-87, Cl. 429-121.000.

Lopez, Edward L., to Lockheed Corporation. Toxic environmental breathing hood. 4,637,383, 1-20-87, Cl. 128-201.250.

Lopez, Eugene F.: *See—*
Debbaut, Christian A. M.; Gac, Norman; Lopez, Eugene F.; Moyer, Wendell W.; Terrell, David; and Tsou, Patrick K., 4,670,069, Cl. 156-48.000.

Lopez, Gilbert T., to Cercorp. Method and apparatus for separating printed circuit boards from multi-board panels. 4,683,789, 8-4-87, Cl. 83-35.000.

Lopez, Jaime; and Pasek, Eugene A., to Chevron Research Company. Process for preparing heavy oil hydroprocessing slurry catalyst. 4,710,486, 12-1-87, Cl. 502-219.000.

Lopez, Joe L. Siding gauge. 4,654,975, 4-7-87, Cl. 33-626.000.

Lopez, Juan M.: *See—*
Poliak, John M.; Lopez, Juan M.; and Gritz, Robert W., 4,634,211, Cl. 339-196.00M.

Lopez, Juan R.: *See—*
Link, David H.; and Lopez, Juan R., 4,711,467, Cl. 280-785.000.

Lopez, Julio C. Golf swing guide. 4,688,800, 8-25-87, Cl. 273-183.00B.

Lopez, Lionel P., to Lion's Sports, Inc. Glove apparatus. 4,691,387, 9-8-87, Cl. 2-161.00A.

Lopez, Louis, to Corrugated Paper Corporation. Collapsible carton. 4,671,450, 6-9-87, Cl. 229-27.000.

Lopez, Louis: *See—*
Angles, Michel; Hoornaert, Pierre; Audouin, Alain; Roques, Henri; Aurelle, Yves; and Lopez, Louis, 4,650,581, Cl. 210-398.000.

Lopez, Manuel. Fishing device. 4,656,772, 4-14-87, Cl. 43-4.000.

Lopez-Mota, Ricardo: *See—*
Cardenas-Franco, Luis; and Lopez-Mota, Ricardo, 4,708,729, Cl. 65-164.000.

Lopez, Nephi E., to Boeing Company, The. Antibacklash shaft coupling. 4,685,823, 8-11-87, Cl. 403-359.000.

Lopez, Sergio: *See—*
Hascal, Marcel; Lopez, Sergio; Danielski, Andrew; and Mihai, Adrian, 4,714,915, Cl. 340-657.000.

Lopi International, Ltd.: *See—*
Rumens, Kurt W. F.; Holley, Robert E., Jr.; Atemboski, Alan; and Barnett, Stockton, 4,665,889, Cl. 126-77.000.

Lopic, Franz: *See—*
Prestele, Erich; Schneider, Alfred; Hepperle, Willi; Katzer, Johann; Stephany, Christian; and Lopic, Franz, 4,673,307, Cl. 401-289.000.

Lopiccolo, Mario T.: *See—*
Swarts, Richard E.; Moffatt, E. Marston; and Lopiccolo, Mario T., 4,714,815, Cl. 219-121.0LC.

Lopour, Petr: *See—*
Sulc, Jiri; Vondracek, Petr; and Lopour, Petr, 4,696,974, Cl. 525-92.000.

Lopp, Loran C., Jr.: *See—*
Bonko, Mark L.; and Lopp, Loran C., Jr., 4,711,283, Cl. 152-209.00B.

Lopperi, Esko: *See—*
Kuusela, Juhani; Lopperi, Esko; Lummila, Markku; Saksala, Pertti; Salovaara, Esa; Suhonen, Tuomo; Perttina, Harri; Poikolainen, Esko; and Trygg, Hannu, 4,700,953, Cl. 277-38.000.

Lopresti, William J. Bearing-less positive displacement flowmeter. 4,641,522, 2-10-87, Cl. 73-261.000.

Loqvist, Kaj-Ragnar, to Seco Tools AB. Chip cutting tool. 4,664,564, 5-12-87, Cl. 407-72.000.

Loqvist, Kaj-Ragnar, to Seco Tools AB. Cutting insert for chip forming machining. 4,710,069, 12-1-87, Cl. 407-114.000.

LOR, Inc.: *See—*
DeCell, Alonzo L.; Perkin, Gregg S.; and Patarini, Peter, 4,674,171, Cl. 29-558.000.

Lora, Silvano; Minto, Francesco; DiMarco, Piergiulio; Giro, Gabriele; and Pezzin, Giovanni, to Consiglio Nazionale Delle Ricerche. Phosphazene homopolymers and copolymers having hydroxylated or amino derivatives of carbazole or of naphthalene as substituents. 4,657,993, 4-14-87, Cl. 525-538.000.

Loral Corporation: *See—*
Crapanzano, Angelo T., 4,709,223, Cl. 340-52.00B.
Graham, John J., Jr.; Huber, Joseph C., Jr.; and Neumann, John E., 4,709,235, Cl. 342-10.000.
Reichel, Paul, deceased; and Reichel, Gilbert, administrator, 4,692,722, Cl. 333-142.000.
Reynolds, Daniel S., 4,696,376, Cl. 188-71.500.

Loral Electro-Optical Systems, Inc.: *See—*
Dawson, Christopher; Healey, Fritz W.; and Taylor, Leo O., 4,712,885, Cl. 350-443.000.
Gallagher, Lawrence J.; Althaus, Lauren B.; Pederson, Robert J.; and Rubinstein, Benjamin, 4,662,844, Cl. 434-16.000.
Gallagher, Lawrence J.; and Chudasama, Bharat V., 4,662,845, Cl. 434-22.000.
Pederson, Robert J.; Gallagher, Lawrence J.; Miller, Jack V.; Althaus, Lauren B.; Rubinstein, Benjamin; and Schomotolocha, Stephen N., 4,664,631, Cl. 434-16.000.

Loram Maintenance of Way, Inc.: *See—*
Bull, Timothy B. H.; and Wahl, Raymond C., 4,713,898, Cl. 37-96.000.
Vieau, Robert G., and Klempke, William D., 4,693,039, Cl. 51-168.000.

L'Orange GmbH: *See—*
Prillwitz, Rolf, 4,650,116, Cl. 239-88.000.
Scheibe, Wolfgang, 4,658,824, Cl. 123-472.000.

Lorch, Douglas J.: *See—*
Gladney, Henry M.; Lorch, Douglas J.; and Mattson, Richard L., 4,714,992, Cl. 364-200.000.
Gladney, Henry M.; Lorch, Douglas J.; and Mattson, Richard L., 4,714,996, Cl. 364-300.000.

Lord, Allan, to TBA Industrial Products Limited. Heat-settable sealant material. 4,664,968, 5-12-87, Cl. 428-240.000.

Lord Corporation: *See—*
Goumas, Peter G.; and Wolfe, Paul T., 4,680,523, Cl. 318-685.000.
Miller, H. Timothy, 4,712,777, Cl. 267-140.100.
Rende, Anthony V., Jr., 4,690,966, Cl. 524-264.000.
Trull, Michael W.; and Powell, Richard C., 4,640,137, Cl. 73-862.040.

Lord, Duncan; and Bracewell, John H., to Cleveland-Guest (Engineering) Limited. Robot hand. 4,676,541, 6-30-87, Cl. 294-88.000.

Lord, Gary E., to Eli Lilly and Company. Crystalline (7R)-7-amino-3-(1'-pyridiniummethyl)-3-cephem-4-carboxylate monohydrate compound. 4,692,518, 9-8-87, Cl. 540-224.000.

Lord, Gary E.; Metzler, Robert M.; and Wirth, David D., to Eli Lilly and Company. Synthesis of 3-iodomethyl cephalosporins. 4,703,118, 10-27-87, Cl. 540-224.000.

Lord, Leslie W.; Kendall, Kevin; Williams, David T.; and Bateson, John H., to Imperial Chemical Industries PLC. Catalyst and catalytic process. 4,707,351, 11-17-87, Cl. 423-648.00R.

Lord, Phillip E. Device for providing a temporary remedy for ceiling leaks. 4,633,899, 1-6-87, Cl. 137-357.000.

Lord, Richard T. G., to Scapa-Porritt Limited. Link belts. 4,662,994, 5-5-87, Cl. 162-348.000.

Lord, Ronald D., to Mining Industry Research Organization of Canada. Footwear reinforcement. 4,656,761, 4-14-87, Cl. 36-77.00R.

Lord, Steven M.: *See—*
Foulke, Richard F.; and Lord, Steven M., 4,682,928, Cl. 414-416.000.

L'Oreal: *See—*
Arnaud, Jean-Claude; and Bore, Pierre, 4,642,294, Cl. 436-5.000.
Arraudeau, Jean-Pierre; Patraud, Jeanne; and Le Gall, Louis, 4,659,562, Cl. 424-63.000.
Aubert, Lucien; Anthoine, Philippe; and Corcuff, Pierre A., 4,670,781, Cl. 358-93.000.
Bouillon, Claude; Lang, Gerard; and Laugier, Jean-Pierre, 4,671,956, Cl. 424-59.000.
Bugaut, Andree; and Junino, Alex M., 4,702,863, Cl. 260-396.00N.
De Rigal, Jean P.; Leveque, Jean-Luc M.; Rasseneur, Laurent B.; and Losch, Marie-Jeanne, 4,682,608, Cl. 128-774.000.
Filiz, Alain; and Ascolese, Salvatore J., 4,685,558, Cl. 206-1.500.
Gassmann, Max, 4,638,171, Cl. 250-566.000.
Goncalves, Antonin, 4,705,053, Cl. 132-88.700.
Goncalves, Antonin L.; and Bigotte, Francois, 4,662,530, Cl. 215-330.000.
Goncalves, Antonin L., 4,664,299, Cl. 222-327.000.
Grollier, Jean F.; Lang, Gerard; Forestier, Serge; and Rosenbaum, Georges, 4,656,029, Cl. 424-47.000.
Grollier, Jean F.; and Dubief, Claude, 4,657,690, Cl. 252-90.000.
Grollier, Jean F.; and Dubief, Claude, 4,664,835, Cl. 252-90.000.
Grollier, Jean F.; Cotteret, Jean; and Rosenbaum, Georges, 4,668,237, Cl. 8-424.000.
Grollier, Jean F.; and Cotteret, Jean, 4,668,505, Cl. 424-47.000.
Grollier, Jean F.; and Fourcadier, Chantal, 4,668,508, Cl. 424-70.000.
Grollier, Jean F.; Dubief, Claude; and Cauwet, Daniele, 4,673,568, Cl. 424-47.000.
Grollier, Jean F.; and Dubief, Claude, 4,710,374, Cl. 424-61.000.
Grollier, Jean-Francois; Fiquet, Claire; Fourcadier, Chantal; Dubief, Claude; and Cauwet, Daniele, 4,638,822, Cl. 132-7.000.
Grollier, Jean-Francois; Cotteret, Jean; and Rosenbaum, Georges, 4,668,236, Cl. 8-405.000.
Grollier, Jean-Francois; Cotteret, Jean; Junino, Alex; and Genet, Alain, 4,690,685, Cl. 8-405.000.
Gueret, Jean-Louis H., 4,671,689, Cl. 401-122.000.
Gueret, Jean-Louis H., 4,681,127, Cl. 132-82.00R.

Junino, Alex; Lang, Gerard; and Jeanminet, Ginette, 4,666,453, Cl. 8-415.000.

Junino, Alex; Lang, Gerard; Andrean, Herve; and Cotteret, Jean, 4,692,166, Cl. 8-410.000.

Kalopissis, Gregoire; Bugaut, Andree; and Estradier, Francoise, 4,675,130, Cl. 260-396.00N.

Kalopissis, Gregoire; and Vanlerberghe, Guy, 4,695,653, Cl. 564-505.000.

Lang, Gerard; Leduc, Madeleine; and Malaval, Alain, 4,654,434, Cl. 560-51.000.

Lang, Gerard; Leduc, Madeleine; and Malaval, Alain, 4,663,088, Cl. 260-507.00R.

Lang, Gerard; Forestier, Serge; and LaGrange, Alain, 4,710,584, Cl. 560-51.000.

Madrange, Annie; and Canivet, Patrick, 4,710,314, Cl. 252-117.000.

Monnais, Christian; and Cotteret, Jean, 4,637,821, Cl. 8-415.000.

Morane, Bruno P., 4,638,927, Cl. 222-83.000.

Rougier, Andre ; Dupuis, Didier; Philippe, Michel; Sebag, Henri; and Leger, Didier S., 4,668,664, Cl. 514-29.000.

Sebag, Henri; and Vanlerberghe, Guy, 4,656,030, Cl. 424-47.000.

Sebag, Henri; and Vanlerberghe, Guy, 4,657,556, Cl. 8-405.000.

Sebag, Henri; and Vanlerberghe, Guy, 4,677,232, Cl. 568-619.000.

Vanlerberghe, Guy; and Sebag, Henri, 4,666,711, Cl. 424-70.000.

Vanlerberghe, Guy; and Sebag, Henri, 4,668,509, Cl. 424-72.000.

Vanlerberghe, Guy; and Sebag, Henri, 4,678,665, Cl. 424-72.000.

Zabotto, Arlette; and Contamin, Jean-Claude, 4,715,982, Cl. 252-174.170.

Zabotto nee Arribau, Arlette; Contamin, Jean-Claude; Zaffran, Christian; and Koulbanis, Constantin, 4,637,533, Cl. 424-131.000.

Loren, Norman S., to Ladney, Michael. Apparatus for staking. 4,633,559, 1-6-87, Cl. 29-243.500.

Loren, Norman S.; and Gordon, William E., to Ladney, Michael. Vehicle bumper. 4,635,984, 1-13-87, Cl. 293-120.000.

Loren, Norman S., to Ladney, Michael. Energy absorbing steering assembly. 4,643,448, 2-17-87, Cl. 280-777.000.

Loren, Norman S.; and Gordon, William E., to Ladney, Michael. Vehicle bumper. 4,652,031, 3-24-87, Cl. 293-120.000.

Loren, Norman S., to Ladney, Michael, Jr. Wheel cover retention system with pilot ribs. 4,708,398, 11-24-87, Cl. 301-37.0PB.

Lorensen, William E.: *See—*

Cline, Harvey E.; and Lorensen, William E., 4,710,876, Cl. 364-414.000.

Lorentz, Donald G.: *See—*

Draper, Robert; and Lorentz, Donald G., 4,635,589, Cl. 122-396.000.

Draper, Robert; Lorentz, Donald G.; Baum, Allen J.; and Economy, George, 4,637,346, Cl. 122-4.00A.

Lorenz Bolz GmbH & Co.: *See—*

Balleis, Peter, 4,695,263, Cl. 446-256.000.

Lorenz, Dieter: *See—*

Olsen, Willi; Lorenz, Dieter; and Dambietz, Hans-Peter, 4,659,886, Cl. 200-148.00R.

Lorenz, Donald H.: *See—*

Creasy, Walter S.; Lorenz, Donald H.; LaCasse, Robert G.; and Malagreca, Salvatore A., 4,642,267, Cl. 428-413.000.

Lorenz, Gerald: *See—*

Kumar, Shailendra; Lorenz, Gerald; and Cabato, Nellie L., 4,651,126, Cl. 338-309.000.

Lorenz, Jerome L., to United Technologies Automotive, Inc. Hand tool and method for removing insulation from wire-wound ignition cable. 4,689,882, 9-1-87, Cl. 30-90.100.

Lorenz, Joachim, and Grade, Reinhardt, to Ciba-Geigy Corporation. 2-chloro-4,6-diamino-s-triazines as algicides. 4,659,359, 4-21-87, Cl. 71-67.000.

Lorenz, Joachim; and Gattinger, Martin, to MTU Motoren-und Turbinen-Union Munchen GmbH. Lubricating system for gas turbine engines and pump for such a system. 4,714,139, 12-22-87, Cl. 184-6.110.

Lorenz, Klaus; Balzer, Wolf-Dieter; Wolf, Helmut; Trieselt, Wolfgang; and Busse, Gerd, to Basf Aktiengesellschaft. Preparation of alkylglucosides. 4,704,453, 11-3-87, Cl. 536-18.600.

Lorenz, Kurt; Dungs, Horst; Nashan, Gerd; Breidenbach, Dieter; and Volmari, Josef, to Carl Still GmbH & Co. KG, Firma. Dry coke cooling plant. 4,647,341, 3-3-87, Cl. 202-228.000.

Lorenz, Kurt; Dungs, Horst; Nashan, Gerd; Breidenbach, Dieter; and Volmark, Josef, to Carl Still GmbH & Co. KG, Firma. Method for cooling coke and generating superheated high pressure steam. 4,668,344, 5-26-87, Cl. 201-39.000.

Lorenz, Kurt; Dungs, Horst; and Auge, Karl-Hans, to Carl Still GmbH & Co. KG, Firma. Method for cooling and dedusting dry cooled coke. 4,701,243, 10-20-87, Cl. 201-3.000.

Lorenz, Kurt: *See—*

Nashan, Gerd; Volmari, Josef; Dungs, Horst; Breidenbach, Dieter; and Lorenz, Kurt, 4,668,343, Cl. 201-39.000.

Nashan, Gerd; Volmari, Josef; Dungs, Horst; Breidenbach, Dieter; and Lorenz, Kurt, 4,699,693, Cl. 202-228.000.

Walther, Norbert; Lucas, August; Lorenz, Kurt; and Bruns, Engelbert, 4,690,160, Cl. 134-181.000.

Weber, Heinrich; Lorenz, Kurt; and Dungs, Horst, 4,662,895, Cl. 48-210.000.

Weber, Heinrich; Lorenz, Kurt; and Dungs, Horst, 4,683,030, Cl. 201-6.000.

Lorenz, Linda F.: *See—*

Conner, Anthony H.; River, Bryan H.; and Lorenz, Linda F., 4,686,140, Cl. 428-342.000.

Lorenz-Meyer, Wolfgang: *See—*

Pszolla, Hartmut; Baumert, Werner; and Lorenz-Meyer, Wolfgang, 4,658,635, Cl. 73-147.000.

Lorenz, Otto: *See—*

Zerle, Ludwig; Brunner, Gerhard; and Lorenz, Otto, 4,673,803, Cl. 235-436.000.

Lorenz, Rainer, to Palitex Project-Company GmbH. Pre-take-up roller mechanism for varying the tension on a running thread in a thread processing machine. 4,709,543, 12-1-87, Cl. 57-58.700.

Lorenz, Robert D., to Rexnord Inc. Optical measuring apparatus and method. 4,708,483, 11-24-87, Cl. 356-376.000.

Lorenz, William, to Allied Corporation. Thermocouple biasing circuit. 4,674,901, 6-23-87, Cl. 374-169.000.

Lorenzelli, Robert; Dabernard, Pierre; and Maire, Christian, to Cogema, Compagnie Generale des Matieres Nucleaires. Device for the tight connection of two enclosures. 4,643,328, 2-17-87, Cl. 220-256.000.

Lorenzen, Heinz-Christen; Heitmann, Uwe; and Steiniger, Wolfgang, to Hauni-Werke Korber & Co. KG. Apparatus for building a stream from particles of smokable material. 4,651,754, 3-24-87, Cl. 131-84.300.

Lorenzen, Heinz-Christen: *See—*

Heitmann, Uwe; Lorenzen, Heinz-Christen; and Brand, Peter, 4,662,214, Cl. 73-38.000.

Lorenzetti-Inebrasa S/A: *See—*

Heyde, Hans H., 4,700,028, Cl. 200-146.00R.

Heyde, Hans H., 4,704,508, Cl. 200-148.00A.

Lorenzetti, Theodore V., to Corflex, Inc. Fastening apparatus. 4,672,720, 6-16-87, Cl. 24-163.00R.

Lorenzi, Donald E.; and Wagerer, Helmut F., to Magnaflux Corporation. System for processing of steel billets or the like to remove surface defects. 4,633,620, 1-6-87, Cl. 51-165.00R.

Lorenzi, Donald E.; Wagerer, Helmut F.; and Spevak, Lev, to Magnaflux Pipeline Services, Inc. Pipeline inspection device using ultrasonic apparatus for corrosion pit detection. 4,641,529, 2-10-87, Cl. 73-601.000.

Lorenzi, Silvana: *See—*

della Valle, Francesco; Romeo, Aurelio; and Lorenzi, Silvana, 4,707,469, Cl. 514-26.000.

Lorenzo, John L., to Pitney Bowes Inc. Optical scanning system including an amplifier. 4,659,939, 4-21-87, Cl. 250-566.000.

Lorenzo, Joseph P.; and Soref, Richard A., to United States of America Air Force. Guided-wave optical power divider. 4,693,546, 9-15-87, Cl. 350-96.130.

Lorenzo, Joseph P.: *See—*

Soref, Richard A.; and Lorenzo, Joseph P., 4,693,547, Cl. 350-96.130.

Loret, Marc: *See—*

Gerard, Jean-Louis; and Loret, Marc, 4,704,711, Cl. 369-59.000.

Lorett, Jerzy A., to Hughes Tool Company. Thrust balancing device for a progressing cavity pump. 4,669,961, 6-2-87, Cl. 418-1.000.

Lorett, Jerzy A.; and Vandevier, Joseph E., to Hughes Tool Company. Low volume variable rpm submersible well pump. 4,678,404, 7-7-87, Cl. 417-45.000.

Lorg, John W. Infiltration control device. 4,691,478, 9-8-87, Cl. 49-499.000.

Lori Corporation: *See—*

Santii, Robert J.; and Aldieri, Raymond, 4,687,389, Cl. 409-81.000.

Theriault, Kenneth T., 4,672,828, Cl. 70-373.000.

Lorica S.p.A.: *See—*

Poletto, Giorgio, 4,714,652, Cl. 428-308.400.

Lorillard, Inc.: *See—*

Moorefield, James F., II, 4,664,131, Cl. 131-300.000.

Lorin, Jean-Claude: *See—*

Slodzian, Georges; Chaintreau, Marcel; Dennebouy, Roger; and Lorin, Jean-Claude, 4,672,204, Cl. 250-298.000.

Lorincz, Eugene: *See—*

Hoskinson, Marlin J.; and Lorincz, Eugene, 4,676,051, Cl. 53-451.000.

Loriot, Pierre; Rendu, Michel; Rousseau, Jean; and Samoel, Alain, to Commissariat a l'Energie Atomique. Method of setting a stop means inside of a tubular element. 4,678,924, 7-7-87, Cl. 29-407.000.

Loris, J. Articulate rafter framing jig and method of using same. 4,683,633, 8-4-87, Cl. 29-407.000.

Lork, Winfried: *See—*

Erpenbach, Heinz; Gehrmann, Klaus; Lork, Winfried; and Prinz, Peter, 4,664,753, Cl. 203-29.000.

Lormeau, Jean-Claude; and Choay, Jean, to D.R.O.P.I.C. Process for preparing mucopolysaccharide compositions having high antithrombotic activity, the compositions obtained and their use as medicaments. 4,686,288, 8-11-87, Cl. 536-21.000.

Lormeau, Jean-Claude; Goulay, Jean; and Choay, Jean, to Choay, S.A. Mucopolysaccharide composition having a regulatory action on coagulation, medicament containing same and process of preparation. 4,692,435, 9-8-87, Cl. 514-56.000.

Lorteije, Jean H. J.; and Warrink, Geert, to U.S. Philips Corporation. Matrix control circuit for a memory display. 4,672,357, 6-9-87, Cl. 340-793.000.

Lorthioir, Gerard: *See—*

Cohen, Joseph; and Lorthioir, Gerard, 4,686,025, Cl. 204-245.000.

Lortz, Allan R.: *See—*

Anthony, James R.; and Lortz, Allan R., 4,660,889, Cl. 297-467.000.

Anthony, James R.; and Lortz, Allan R., 4,679,852, Cl. 297-464.000.

Lorusso, Michaelango: *See—*

Graziadei, Rinaldo; and Lorusso, Michaelango, 4,704,738, Cl. 455-253.000.

Lory, Earl R.; and Olmer, Leonard J., to AT&T Technologies, Inc. Low temperature deposition method for high quality aluminum oxide films. 4,675,089, 6-23-87, Cl. 204-164.000.

Lory, John C.: *See—*

Looper, Larry L.; and Lory, John C., 4,669,368, Cl. 92-259.000.

Los, Marinus, to American Cyanamid Company. 2-(2-imidazolin-2-yl)-pyridines and quinolines, process and intermediates for the preparation thereof, and use of said compounds as herbicidal agents. 4,638,068, 1-20-87, Cl. 546-169.000.

Los, Marinus, to American Cyanamid Company. Herbicidal 2-(2-imidazolin-2-yl)fluoroalkyoxy-, alkenyloxy- and alkynyloxypyridines. 4,647,301, 3-3-87, Cl. 71-92.000.

Los, Marinus; Ladner, David W.; and Cross, Barringtin, to American Cyanamid Company. (2-imidazolin-2-yl)thieno- and furo[2,3-b] and [3,2-b]pyridines and intermediates for the preparation thereof, and use of said compounds as herbicidal agents. 4,650,514, 3-17-87, Cl. 71-90.000.

Los, Marinus, to American Cyanamid Company. 5H-imidazo[2',1':4,-3]imidazo-[1,5a]pyridin-6-ium salts and their use as herbicidal agents. 4,698,092, 10-6-87, Cl. 71-92.000.

Los, Marinus, to American Cyanamid Company. Dihydroimidazopyrrolopyridine, quinoline, thieno- and furo[2,3-b]pyridine, dihydrothieno- and furo[2,3-b]-pyridine, thieno- and furo[3,2-b]pyridine and dihydrothieno- and furo[3,2-b]pyridine herbicides and method for preparation thereof. 4,701,208, 10-20-87, Cl. 71-92.000.

Los, Marinus; Long, Don W.; and Withers, Gregory P., to American Cyanamid Company. Process for the preparation of herbicidal 2-(4,4-disubstituted-5-oxo-2-imidazolin-2-yl)benzoic, nicotinic and quinoline-3-carboxylic acids, esters and salts. 4,709,036, 11-24-87, Cl. 546-167.000.

Los, Vladimir F.: *See—*

Sobolev, Gennady A.; Demin, Vladislav M.; Los, Vladimir F.; and Maibuk, Zinovy-Jury Y., 4,692,905, Cl. 367-14.000.

Losada, Alfonaso. Fastener assembly. 4,703,883, 11-3-87, Cl. 227-9.000.

Losada, Robert J., to Becton, Dickinson and Company. Blood collection assembly. 4,653,512, 3-31-87, Cl. 128-763.000.

Losada, Robert J.; and Conway, Hugh T., to Becton, Dickinson and Company. Flow inducing means for small volume containers. 4,690,153, 9-1-87, Cl. 128-763.000.

Losapio, Peter F.; Germer, Warren R.; Ouellette, Maurice J.; and Palmer, Ansell W., to General Electric Company. Battery backup installation for electric meter. 4,713,609, 12-15-87, Cl. 324-156.000.

Losapio, Peter F.: *See—*

Germer, Warren R.; and Losapio, Peter F., 4,673,872, Cl. 324-103.00R.

Loscei, Anthony A., to Cincinnati Milacron Inc. Toggle injection molding clamping force monitor. 4,685,876, 8-11-87, Cl. 425-170.000.

Losch, Dieter, to Gebr. Buhler Nachfolger GmbH. Rear view mirror. 4,648,693, 3-10-87, Cl. 350-636.000.

Losch, Hans-Wilhelm; Kleinrahm, Rainer; Pieperbeck, Norbert; and Wagner, Wolfgang. Apparatus for the contactless coupling of a suspended part to force measuring device. 4,678,048, 7-7-87, Cl. 177-212.000.

Losch, Marie-Jeanne: *See—*

De Rigal, Jean P.; Leveque, Jean-Luc M.; Rasseneur, Laurent B.; and Losch, Marie-Jeanne, 4,682,608, Cl. 128-774.000.

Loscher, Jurgen, to U.S. Philips Corporation. Circuit arrangement for sampling a ternary signal. 4,700,359, 10-13-87, Cl. 375-20.000.

Losee, Paul D.: *See—*

Bauck, Randall C.; Radman, Anton J.; Thornock, Roy; Freeman, Robert D.; Kleczkowski, Peter; Losee, Paul D.; and Lyon, Michael, 4,658,318, Cl. 360-133.000.

Losel, Walter, to U.S. Philips Corporation. Circuit arrangement for feeding the regulation and control device of a regulated direct voltage converter. 4,642,746, 2-10-87, Cl. 363-49.000.

Losel, Walter; Roos, Otto; and Schnorrenberg, Gerd, to Boehringer Ingelheim KG. 5,6-dihydro-pyrrolo[2,1-a]isoquinolines and the preparation thereof. 4,694,085, 9-15-87, Cl. 546-65.000.

Losel, Walter, to U.S. Philips Corporation. Synchronizer for commonly clocked converters. 4,694,388, 9-15-87, Cl. 363-72.000.

Losel, Walter: *See—*

Schnorrenberg, Gerd; Roos, Otto; Losel, Walter; Wiedemann, Ingrid; Gaida, Wolfram; and Hoefke, Wolfgang, 4,683,238, Cl. 514-292.000.

Losen, Anders. Apparatus for the distribution of pumpable fish food. 4,656,968, 4-14-87, Cl. 119-51.00R.

Losenhausen Maschinenbau AG & Co. Kommanditgesellschaft: *See—*

Baumers, Hans; Lietzke, Heinz; and Schulte, Winfred, 4,638,877, Cl. 180-21.000.

Loser, Norbert; Tilgner, Leopold; and Scholer, Jurgen, to SKF Gleitlager GmbH. Pivot bearing for steering columns of motor vehicles. 4,708,499, 11-24-87, Cl. 384-539.000.

Loser, Norbert: *See—*

Kottwitz, Bernd; and Loser, Norbert, 4,687,347, Cl. 384-141.000.

Loser, Wolfgang: *See—*

Reutler, Harald; Loser, Wolfgang; Muhlbach, Heinz; Richter, Gerhard; and Stephani, Gunter, 4,660,622, Cl. 164-463.000.

Losert, Wolfgang: *See—*

Skuballa, Werner; Raduchel, Bernd; Vorbruggen, Helmut; Mannesmann, Gerda; Losert, Wolfgang; and Casals-Stenzel, Jorge, 4,692,464, Cl. 514-530.000.

Losey, Walter N.; and Giometti, Paul F., to Facet Enterprises, Inc. Engine starter gearing. 4,712,435, 12-15-87, Cl. 74-6.000.

Losh, Russell L.: *See—*

Holt, Joseph C.; and Losh, Russell L., 4,635,997, Cl. 296-182.000.

Loshaek, Samuel, to Schering Corporation. Pigment colored contact lenses and method for making same. 4,668,240, 5-26-87, Cl. 8-507.000.

Loss, Rolf D.: *See—*

Reichardt, Manfred; and Loss, Rolf D., 4,678,262, Cl. 439-857.000.

Losse, Ronald B.: *See—*

Porter, William H.; and Losse, Ronald B., 4,662,140, Cl. 52-385.000.

Losser, Gerald L.; and Weaver, Richard D., to Allied Corporation. Solenoid control valve. 4,712,767, 12-15-87, Cl. 251-129.140.

Lossl, Gunter; Zauhar, Helmut; and Stock, Horst, to Wacker-Chemie Gesellschaft fur Elektronik-Grundstoffe mbH. Multiple-blade internal-hole saw for sawing crystalline rods. 4,633,847, 1-6-87, Cl. 125-13.00R.

Lostumo, Arthur J.: *See—*

Brodzik, Paul E.; and Lostumo, Arthur J., 4,677,538, Cl. 363-126.000.

Loth, Eric, to Montres Rado S.A. Hard metal watch case with a resistant coating. 4,640,869, 2-3-87, Cl. 428-469.000.

by Loth, Eric, to Montres Rado S.A. Wrist watch having certain parts covered with extra hard material. 4,674,892, 6-23-87, Cl. 368-280.000.

Loth, Fritz: *See—*

Dautzenberg, Horst; Loth, Fritz; Borrmeister, Bodo; Bertram, Dieter; Lettau, Herbert; Stamberg, Jiri; and Peska, Jan, 4,664,105, Cl. 128-156.000.

Henklein, Peter; Becker, Manfred; Buttner, Werner; Loth, Fritz; Dautzenberg, Horts; Forner, Klaus; Dolling, Rudolf; Graul, Karl-Heinz; Halatsch, Wolt-Rainer; and Rupprich, Christian, 4,714,768, Cl. 548-435.000.

Lothar A. Wolf Spezialmaschinen GmbH: *See—*

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Lothar Steinhardt: *See—*

Giehl, Klaus-Ulrich, 4,702,271, Cl. 137-389.000.

Lothenbach, Michael; and Herzog, Peter, to AG fur Industrielle Elektronik AGIE. Machine tool pallet that clamps the workpiece to the pallet. 4,698,475, 10-6-87, Cl. 219-69.00W.

Lothian, Barry R.: *See—*

Jones, Keith; Lothian, Barry R.; Martin, Alexander; Taylor, Graham, and Haq, Zia, 4,668,709, Cl. 521-146.000.

Lothman, Stig A., to Tetra Pak International AB. Method and an arrangement for the feeding of objects. 4,682,684, 7-28-87, Cl. 198-461.000.

Lothrop, John R.: *See—*

Baker, Robin C.; Brown, Steven E.; Lothrop, John R.; Lozyniak, Roman; Miller, Paul E.; Olsen, Robert H.; Parker, Charles H.; and Swoll, Eva C., 4,680,786, Cl. 379-60.000.

Lotsch, Wolfgang; and Henning, Georg, to BASF Aktiengesellschaft. Transparent isoindoline pigment having a high color strength. 4,645,539, 2-24-87, Cl. 106-288.00Q.

Lotsch, Wolfgang; Bock, Gustav; and Neumann, Peter, to BASF Aktiengesellschaft. Bisisoindoline pigments. 4,707,548, 11-17-87, Cl. 544-284.000.

Lott, David A. Trimaran with planing hull. 4,644,890, 2-24-87, Cl. 114-61.000.

Lott, Donald L., to Siemens Energy & Automation, Inc. Surge suppressing resistor for a disconnect switch. 4,638,285, 1-20-87, Cl. 338-21.000.

Lott, Randy G.; and Baloh, Frank J., to Westinghouse Electric Corp. Spectral shift apparatus and method for a nuclear reactor fuel assembly. 4,683,103, 7-28-87, Cl. 376-209.000.

Lott, Thomas M. Multiple line self-contained telephone. 4,677,662, 6-30-87, Cl. 379-162.000.

Lott, W. Gerald. Drilling mud cleaning method and apparatus. 4,634,535, 1-6-87, Cl. 210-780.000.

Lotte Co., Ltd.: *See—*

Sato, Yoshinori; Tsuchiya, Yukio; and Fujimoto, Keiji, 4,707,363, Cl. 426-3.000.

Lotter, Klaus: *See—*

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Lotter, Kurt: *See—*

Genssler, Hans-Peter; and Lotter, Kurt, 4,655,413, Cl. 244-53.00B.

Lotterbach, Gerhard; Schenk, Manfred; Zucker, Udo; Van Belzen, David; and van Woudenberg, Jan F., to Robert Bosch GmbH. Position displacement and speed sensor system, particularly for combination with an automotive engine control computer. 4,700,305, 10-13-87, Cl. 364-431.030.

Lottick, Edward A. Anal dilator and occluder. 4,686,985, 8-18-87, Cl. 128-344.000.

Lotto, Ronald L.: *See—*

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Sample, Charles A.; and Lotto, Ronald L., 4,668,148, Cl. 414-50.000.

Sample, Charles A.; and Lotto, Ronald L., 4,668,158, Cl. 414-786.000.

Lotts, Kenneth D.: *See—*

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Lottspeich, Friedrich: *See—*

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Lotz, Alexander; and Stevermuer, Heinrich, to M.A.N. Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Coal processing settling machine. 4,690,753, 9-1-87, Cl. 209-496.000.

Lotz, Robert W., to Singer Company, The. Video processor for real time operation without overload in a computer-generated image system. 4,703,439, 10-27-87, Cl. 364-521.000.

Lotz, Werner; Fuchs, Karlheinz; and Haller, Siegmund, to Hoechst Aktiengesellschaft. Economy chrome tanning process with aldehyde-acids and keto-acids. 4,715,861, 12-29-87, Cl. 8-94.180.

Lotz, Werner: *See—*

Bathelt, Heinrich; Ehrl, Winfried; Wehowsky, Frank; Kleber, Rolf; Lotz, Werner; Glenz, Wolfgang; Herdt, Hubert; Jackel, Lothar; Mast, Jan-Hilbert; Hintermeier, Karl; and Muller, Manfred, 4,709,074, Cl. 560-33.000.

Lou, Gene W., to Du Pont de Nemours, E. I., and Company. Vapor-permeable liquid-impermeable fabric. 4,684,568, 8-4-87, Cl. 428-265.000.

Lou, Perry W., to Texas Instruments Incorporated. Ring oscillator substrate bias generator with precharge voltage feedback control. 4,656,369, 4-7-87, Cl. 307-297.000.

Lou, Wen C.: *See—*

Von Fulger, Charles; and Lou, Wen C., 4,663,168, Cl. 426-28.000.

Loubier, Robert J.; and Bleeke, William F., to Xolox Corporation. Solid state magnetic microswitch. 4,691,185, 9-1-87, Cl. 338-32.00H.

Louboutin, Robert; Savall, Vincent; and Vion, Patrick, to Degremont. Apparatus for the rapid in-line mixing of two fluids. 4,633,909, 1-6-87, Cl. 137-888.000.

Loucks, Bryan E., to Greyhawk Systems, Inc. Apparatus for mounting two lasers to produce parallel or colinear beams. 4,701,018, 10-20-87, Cl. 350-174.000.

Loucks, Bryan E.: *See—*

Harshberger, Robert P., Jr.; Loucks, Bryan E.; and Witte, Kenneth G., 4,705,996, Cl. 318-160.000.

Loucks, Joseph, Jr., executor: *See—*

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Loucks, Joseph, Sr., deceased; and by Loucks, Joseph, Jr., executor. Skin care composition. 4,701,471, 10-20-87, Cl. 514-847.000.

Loucks, Larry K.: *See—*

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Louderback, Allan L., to Beckman Instruments, Inc. Stabilized enzymatic composition. 4,668,630, 5-26-87, Cl. 435-184.000.

Louderback, Allan L.; and Szatkowski, Paul R. Urobilinogen control. 4,677,075, 6-30-87, Cl. 436-12.000.

Louderback, Allan L.; and Szatkowski, Paul R. Urobilinogen control. 4,703,013, 10-27-87, Cl. 436-12.000.

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Feisser, Jan J. J. L., 4,660,604, Cl. 139-29.000.

Lough, Wendell J., to Weber Technical Products, Division of Craig Systems Corporation. Adjustable damper for clean room systems. 4,666,477, 5-19-87, Cl. 55-276.000.

Lougheed, William M.: *See—*

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Loughlin, Thomas G.: *See—*

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Loughran, James A.: *See—*

Yerman, Alexander J.; and Loughran, James A., 4,635,092, Cl. 357-68.000.

Yerman, Alexander J.; and Loughran, James A., 4,716,124, Cl. 437-8.000.

Loughran, William P. Three view in one mirror. 4,643,544, 2-17-87, Cl. 350-615.000.

Loughrin, Thomas D.: *See—*

Kozlowski, Thomas A.; Lindstrom, Robert O.; Loughrin, Thomas D.; and Baka, Kathleen J., 4,714,181, Cl. 222-480.000.

Louhichi, Alain: *See—*

Badinier, Christian; Louhichi, Alain; Annichini, Andre; and Dufour, Alain, 4,675,052, Cl. 134-8.000.

Louie, Chuen W.; Roelofs, Darrell D.; Volk, John L.; and Romeo, Arthur L., to Hazeltine Corporation. Color monitor with improved digital convergence. 4,673,847, 6-16-87, Cl. 315-368.000.

Louie, Chuen W.: *See—*

Spieth, Robert H.; Louie, Chuen W.; Volk, John L.; Roelofs, Darrell D.; DeLorenzo, Anthony N.; Romeo, Arthur L.; and Mayer, Thomas L., 4,680,510, Cl. 315-368.000.

Louie, Yuk-Mui; and Zrinscak, Fred S., to Mobil Oil Corporation. Solvent extraction and purification of acid soluble oil from an HF alkylation unit. 4,663,026, 5-5-87, Cl. 208-262.000.

Louis, Alexandre, to Societe de vente et de fabrication pour le decolletage LNS SA. Pusher head for feeder for automatic lathe. 4,646,597, 3-3-87, Cl. 82-38.00R.

Louis, Bill G.: *See—*

Wood, Norman H.; Gray, Walter E.; Yemington, Charles R.; and Louis, Bill G., 4,661,017, Cl. 405-169.000.

Louis, Michel: *See—*

Bard, Max; Sibilo, Gerard; Marello, Georges; Viale, Daniel; and Louis, Michel, 4,641,985, Cl. 403-16.000.

Louis Pokorny Company, Inc.: *See—*

Pokorny, L. Robert, 4,682,375, Cl. 5-13.000.

Louis, Raymond, to Gaz de France. Process for preheating a combustive gas by means of combustion gases and preheating device associated with a burner for carrying out the said process. 4,642,049, 2-10-87, Cl. 432-223.000.

Louis, Raymond, to Gaz de France. Device for the melting of light metals. 4,712,774, 12-15-87, Cl. 266-155.000.

Louis Vuitton, SA: *See—*

Grenier, Jean, 4,658,472, Cl. 16-225.000.

Louis, William J.: *See—*

Berthold, Richard; Louis, William J.; and Stoll, Andre , 4,661,513, Cl. 514-459.000.

Louis, William John: *See—*

Berthold, Richard; Louis, William J.; and Stoll, Andre , 4,661,513, Cl. 514-459.000.

Louisiana State Rice Milling Company Inc.: *See—*

Kohlwey, David E., 4,649,055, Cl. 426-449.000.

Louisiana State University A & M: *See—*

Villarejos, Victor M.; and Visona, Kirsten A., 4,702,909, Cl. 424-89.000.

Louisiana State University and Agricultural and Mechanical College: *See—*

Meier, Albert H.; and Cincotta, Anthony H., 4,659,715, Cl. 514-288.000.

Saska, Michael, 4,670,587, Cl. 562-485.000.

Loukanis, Jesse J.; Mathews, Will W.; and Tune, Raymond L., to NL Industries, Inc.; and Cummins Engine Company, Inc. Rock bit assembly method. 4,711,143, 12-8-87, Cl. 76-108.00A.

Loukos, Isaias. Feeder for highly abrasive materials. 4,685,593, 8-11-87, Cl. 222-168.500.

Loukoumidis, Dimitrios G.: *See—*

Jennings, Thomas J.; Tripp, Lloyd D., Jr.; Howell, Lora L.; and Loukoumidis, Dimitrios G., 4,674,479, Cl. 128-1.00A.

Louks, John W.: *See—*

Pastor, Sheldon L.; and Louks, John W., 4,670,072, Cl. 156-73.100.

Louks, Willard H.: *See—*

Hawkins, Vernon F.; and Louks, Willard H., 4,658,707, Cl. 98-2.110.

Louman, Hendrik W.; and Corbett, Peter J., to Dow Chemical Company, The. Method and compositions relating to the activation of fluorescent whitening agents. 4,670,183, 6-2-87, Cl. 252-301.350.

Lounds, Bernard C. Router attachment. 4,640,324, 2-3-87, Cl. 144-134.00D.

Lounsbury, Charles W., Jr.; Graudons, Gary D.; and Rider, Paul J., to Sonoco Products Company. Disposable roller for use in xerographic copier machines. 4,646,677, 3-3-87, Cl. 118-653.000.

Lounsbury, David M., and Stevenson, Alexander J., to Prime Computer, Inc. Digital data error correction method and apparatus. 4,637,023, 1-13-87, Cl. 371-38.000.

Lounsbury, David M.: *See—*

Stevenson, Alexander J.; and Lounsbury, David M., 4,689,767, Cl. 364-900.000.

Loup, Didier, to Valeo. System for holding an electric motor in a housing. 4,690,366, 9-1-87, Cl. 248-676.000.

Loup, Ronald L.: *See—*

Tomlin, Jerry B.; and Loup, Ronald L., 4,699,355, Cl. 251-62.000.

Louradour, Guy; Gironnet, Bernard; and Redele, Jean E. A. Antivibration system for a mechanical transmissions. 4,663,981, 5-12-87, Cl. 74-440.000.

Louris, John N.; Syka, John E. P.; and Kelley, Paul E., to Finnigan Corporation. Method of operating quadrupole ion trap chemical ionization mass spectrometry. 4,686,367, 8-11-87, Cl. 250-290.000.

Lousberg, Pierre, to Societe Anonyme des Ateliers Houget Duesberg Bosson. Method of and apparatus for replacing full bobbins on a continuous spinning machine. 4,658,575, 4-21-87, Cl. 57-274.000.

Loutfy, Rafik O.: *See—*

McAneney, T. Brian; Loutfy, Rafik O.; Mammino, Joseph; Nichol-Landry, Deborah J.; and Sypula, Donald S., 4,711,833, Cl. 430-131.000.

Loutfy, Raouf O.: *See—*

Cambridge, Edward L.; Loutfy, Raouf O.; Withers, James C.; and Blake, Daniel M., 4,634,581, Cl. 423-126.000.

Louth, Kenneth, to Ampex Corporation. Microprocessor controlled reproducing apparatus having asynchronous reproducing capability. 4,635,138; 1-6-87, Cl. 360-10.300.

Louth, Kenneth, to Ampex Corporation. Head reel servo system in a recording and/or reproducing apparatus. 4,649,441, 3-10-87, Cl. 360-71.000.

Louthan, Rector P.; Lindstrom, Merlin R.; Baldwin, Bernard A.; and Macdonell, Gary D., to Phillips Petroleum Company. Aqueous metal-working composition and process. 4,659,490, 4-21-87, Cl. 252-47.500.

Louthan, Rector P., to Phillips Petroleum Co. Method of making disulfides using a combination reaction vessel and aspirator-mixer. 4,670,602, 6-2-87, Cl. 568-26.000.

Louthan, Rector P.: *See—*

Bresson, Clarence R.; and Louthan, Rector P., 4,640,789, Cl. 252-61.000.

Lindstrom, Merlin R.; and Louthan, Rector P., 4,670,163, Cl. 252-8.555.

Louvo, Jarmo. Apparatus for treating biological waste by means of composting. 4,633,535, 1-6-87, Cl. 4-449.000.

Louw, Henry J. Hanger with garment support bar. 4,703,878, 11-3-87, Cl. 223-95.000.

Lovable Industriale S.p.A.: *See—*

Bartolini, Dario, 4,673,448, Cl. 156-73.100.

Lovald, Roger A., to Henkel Corporation. Fabric bonding polyamide resins with lowered fusion point. 4,661,194, 4-28-87, Cl. 156-330.900.

Lovas, Kurt; and Deisinger, Franz, to Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Process and apparatus for stopping and restarting an open-end spinning machine with a plurality of spinning devices. 4,638,625, 1-27-87, Cl. 57-263.000.

Lovas, Kurt; Mayer, Walter; and Wittmann, Stephan, to Schubert & Salzer. Process and device for joining a thread in an open-end spinning device. 4,644,742, 2-24-87, Cl. 57-263.000.

Lovas, Kurt: *See—*
  Burkhard, Ludwig; Schuller, Edmund; Lovas, Kurt; and Karl, Rupert, 4,634,064, Cl. 242-18.0PW.

Lovasz nee Gaspar, Marianna: *See—*
  Szekely, Istvan; Botar, Sandor; Dolgos nee Kekesi, Krisztina; Bertok, Bela; Gajary, Antal; Szabolcsi, Tamas; Kovacs, Gabor; and Lovasz nee Gaspar, Marianna, 4,638,002, Cl. 514-212.000.

Lovato, Attilio, to ITW Fastex Italia S.p.A. Releasable buckle particularly for bags, satchels and similar articles. 4,633,549, 1-6-87, Cl. 24-615.000.

Lovato, Attilio, to ITW Fastex Italia S.p.A. Method of molding a plastic buckle with floating center bar. 4,699,747, 10-13-87, Cl. 264-242.000.

Lovatt, John. Collet chuck. 4,640,517, 2-3-87, Cl. 279-2.00R.

Love, James H. Wire mounting for control panels. 4,642,888, 2-17-87, Cl. 29-832.000.

Love, Leonard S. Integral clarifier. 4,652,371, 3-24-87, Cl. 210-195.400.

Love, Mahlon L., to Deere & Company. Torque-responsive power transmission assembly. 4,689,036, 8-25-87, Cl. 474-17.000.

Love, Mialan V.: *See—*
  Love, Samuel D.; and Love, Mialan V., 4,637,151, Cl. 40-584.000.

Love, Paul M.; and Kelley, Bruce G., to Midrex International, B.V. Rotterdam, Zurich Branch. Method of increasing carbon content of direct reduced iron and apparatus. 4,702,766, 10-27-87, Cl. 75-34.000.

Love, Philip F.: *See—*
  Arbic, Harold J.; Love, Philip F., and Kramer, Donald, 4,676,536, Cl. 292-339.000.

Love, Samuel D.; and Love, Mialan V. Combination stadium cushion and pennant. 4,637,151, 1-20-87, Cl. 40-584.000.

Love, Samuel D. Andiron mounting system. 4,646,716, 3-3-87, Cl. 126-298.000.

Love, Scott W.: *See—*
  Hancock, Garry W.; and Love, Scott W., 4,676,275, Cl. 138-99.000.

Loveday, Alan A.: *See—*
  Phillips, Ian R.; Lodge, Robert H.; and Loveday, Alan A., 4,643,059, Cl. 83-162.000.

Loveday, Brian K.; Tumily, James A. J.; and Douglas, William D., to Crucible S.A. Metal value recovery. 4,666,212, 5-19-87, Cl. 299-5.000.

Lovegrove, John R.: *See—*
  Harris, Samuel, and Lovegrove, John R., 4,642,996, Cl. 62-78.000.

Lovejoy, Christopher M.: *See—*
  Wang, John H. S.; Paranto, Joseph N.; and Lovejoy, Christopher M., 4,651,325, Cl. 372-82.000.

Lovelace, Charles B., Jr., to Lockheed Corporation. Latch assembly. 4,682,800, 7-28-87, Cl. 292-247.000.

Lovelace, Donald E.: *See—*
  Saarem, Myrl J.; and Lovelace, Donald E., 4,650,118, Cl. 239-206.000.

Loveland, James G. Container and method for disposing of fluorescent tubes. 4,662,535, 5-5-87, Cl. 220-367.000.

Loveless, Frederick C., to Uniroyal Chemical Company, Inc. Catalytic poly alpha-olefin process. 4,642,410, 2-10-87, Cl. 585-524.000.

Loveless, John H. Remote security system. 4,672,653, 6-9-87, Cl. 379-39.000.

Loveless, John H., to Johns Hopkins University, The. Chin actuated controller system for controlling powered apparatus. 4,679,644, 7-14-87, Cl. 180-6.500.

Lovell, Gregory R., to AMP Incorporated. Electrical connector. 4,648,666, 3-10-87, Cl. 339-17.0CF.

Lovell, Robert C. Packaging with cohesive coated materials. 4,680,918, 7-21-87, Cl. 53-466.000.

Lovell, Roger. Propeller shaft bearing assembly. 4,710,142, 12-1-87, Cl. 440-83.000.

Lovell, Walter C., to Avant Incorporated. Non-electronic card-key actuated combination lock. 4,644,766, 2-24-87, Cl. 70-276.000.

Lovelock, Richard K.; and Smith, Clive S., to Dahle Design Ltd. Documents filing systems. 4,674,637, 6-23-87, Cl. 211-46.000.

Lovely, John D., to Eastman Kodak Company. Head switching in high resolution video reproduction apparatus. 4,686,582, 8-11-87, Cl. 358-310.000.

Loveridge, Ronald, to Ruxley Holdings Ltd.; and Kilfa Limited. Measurement of contact lenses. 4,710,023, 12-1-87, Cl. 356-124.000.

Lovering, Dennis W., to GKN Kwikform Limited. Support assembly. 4,648,484, 3-10-87, Cl. 182-222.000.

Loverro, Nicholas P., Jr. Ammonium nitrate explosive compositions. 4,701,227, 10-20-87, Cl. 149-47.000.

Loveshaw Corporation, The: *See—*
  Lerner, Joseph S.; and Krukas, David, 4,640,731, Cl. 156-355.000.

Lovesky, Roy L.: *See—*
  Clementi, Robert J.; Gazdik, Charles E.; Lafer, William; Lovesky, Roy L.; McBride, Donald G.; Munson, Joel V.; and Skarvinko, Eugene P., 4,681,654, Cl. 156-630.000.

Lovett, Eva G.: *See—*
  Buriks, Rudolf S.; and Lovett, Eva G., 4,689,418, Cl. 548-952.000.

Lovett, Joe B.: *See—*
  Reeder, Alfred R., Jr.; Lovett, Joe B.; and Archer, Barry W., 4,661,227, Cl. 204-186.000.

Lovey, Allen J.: *See—*
  Aig, Edward R.; Coffey, John W.; Lovey, Allen J.; and Rosenberger, Michael, 4,648,996, Cl. 260-410.90R.

Lovie, John R.; Somers, Gerardus A.; and Hendriks, Jan J. M., to OMI International Corporation. Palladium and palladium alloy plating. 4,715,935, 12-29-87, Cl. 204-44.600.

Lovqvist, Bo, to Strumpfabriken Vinetta Aktiebolag. Plant guard. 4,706,411, 11-17-87, Cl. 47-30.000.

Lovrenich, Rodger T. Motorized over center clamp. 4,635,911, 1-13-87, Cl. 269-93.000.

Lovrenich, Rodger T. Zero backlash shiftable transmission. 4,671,129, 6-9-87, Cl. 74-370.000.

Lovrenich, Rodger T. Control device including a conductively isolated depluggable controller. 4,705,960, 11-10-87, Cl. 307-149.000.

Lovsland, Arnstien: *See—*
  Stole, Kjell A.; Lovsland, Arnstien; and Havig, Egil, 4,678,560, Cl. 209-23.000.

Low, Jim Y., to Phillips Petroleum Company. Upgrading carbonaceous materials. 4,708,788, 11-24-87, Cl. 208-390.000.

Low, Lothar: *See—*
  Baumgart, Rudolf; Martin, Manfred; Low, Lothar; and Scheven, Gunter, 4,681,720, Cl. 264-150.000.

Low, Michael L.: *See—*
  Craft, Jack; Low, Michael L.; and Yorkanis, Bernard J., 4,714,871, Cl. 323-315.000.

Low, R. Glenn. Modular construction system. 4,712,352, 12-15-87, Cl. 52-809.000.

Low, Robert G. M. Sensing arrangement. 4,658,193, 4-14-87, Cl. 318-568.000.

Low, Shy-Kong. Composite automatic control system for vehicle engine with theft prevention circuit. 4,672,224, 6-9-87, Cl. 307-10.0AT.

Low, Sidney. Method and apparatus for sterilizing objects. 4,681,738, 7-21-87, Cl. 422-28.000.

Lowden, Peter: *See—*
  Al-Shaar, Adnan H.; Broughton, Barbara J.; Chambers, Robert K.; Gilmour, David W.; Kelsey, Diane M.; Lowden, Peter; Lunt, Edward; Lythgoe, David J.; McClenaghan, Ian; McDougall, Duncan C.; Saunders, Libert C.; Stuttle, Keith A. J.; and Warne, Peter J., 4,659,727, Cl. 514-370.000.

Lowder, Eldon L. Colonic irrigation board. 4,645,497, 2-24-87, Cl. 604-276.000.

Lowdon, Harold L. Preparation for improving the reliability of electrical connections. 4,643,843, 2-17-87, Cl. 252-510.000.

Lowe, Allen D.: *See—*
  Frazier, Thomas A.; and Lowe, Allen D., 4,646,936, Cl. 221-5.000.
  Frazier, Thomas A.; and Lowe, Allen D., 4,667,845, Cl. 221-5.000.

Lowe Alpine Systems, Inc.: *See—*
  Lowe, Greg E., 4,645,149, Cl. 248-1.000.
  Lowe, Greg E., 4,648,121, Cl. 383-76.000.
  Lowe, Greg E., 4,676,418, Cl. 224-215.000.

Lowe, Anthony C.: *See—*
  Cox, Allen R.; Lowe, Anthony C.; and Wood, John C., 4,684,219, Cl. 350-343.000.

Lowe, Anthony E.: *See—*
  Meyer, Richard A.; and Lowe, Anthony E., 4,640,138, Cl. 73-862.040.

Lowe, Barrie M.; and Fegan, Stuart G., to Imperial Chemical Industries PLC. Synthesis of zeolitic materials using ion-exchange resin. 4,680,170, 7-14-87, Cl. 423-329.000.

Lowe, Barrie M.: *See—*
  Araya, Abraham; and Lowe, Barrie M., 4,705,674, Cl. 423-277.000.

Lowe, Byron L.: *See—*
  Lewis, Robert T.; Sullivan, James W.; Milliner, Kenneth M.; and Lowe, Byron L., 4,648,858, Cl. 493-4.000.
  Sexstone, John H.; Finn, Everett N.; Lowe, Byron L.; and Milliner, Ken M., 4,636,183, Cl. 493-42.000.

Lowe, David J.; Powell, Richard J.; and Smith, Malcolm S., to Du Pont de Nemours, E. I., and Company. Silica coated olefin-acid copolymer molding pellets. 4,663,383, 5-5-87, Cl. 524-493.000.

Lowe, Dennis. Revolving door. 4,660,322, 4-28-87, Cl. 49-44.000.

Lowe, Eric; Poppe, Martin C.; and Stratton, Andrew, to Terrafix Limited. Position finding system. 4,680,590, 7-14-87, Cl. 342-457.000.

Lowe, Frank J., to Raychem Corp. Articles comprising shaped woven fabrics. 4,668,545, 5-26-87, Cl. 428-36.000.

Lowe, Frank J.: *See—*
  Pithouse, Kenneth B.; Jones, Thomas P. H.; Lowe, Frank J.; and Skipper, Richard S., 4,639,545, Cl. 174-36.000.

Lowe, Gary C. Organizer for compact disc albums and the like. 4,712,679, 12-15-87, Cl. 206-387.000.

Lowe, Gary M., to Devoke Co. Cabinet for microcomputer components. 4,696,522, 9-29-87, Cl. 312-297.000.

Lowe, Greg E., to Lowe Alpine Systems, Inc. Camming device for climbers. 4,645,149, 2-24-87, Cl. 248-1.000.

Lowe, Greg E., to Lowe Alpine Systems, Inc. Two layer pack structure with offset seams. 4,648,121, 3-3-87, Cl. 383-76.000.

Lowe, Greg E., to Lowe Alpine Systems, Inc. Backpack having improved load distribution and stabilizing structures. 4,676,418, 6-30-87, Cl. 224-215.000.

Lowe, H. Edward. Cat box filler with incorporated pesticide. 4,664,064, 5-12-87, Cl. 119-1.000.

Lowe, Henry E. Litter material for small animals. 4,712,508, 12-15-87, Cl. 119-1.000.

Lowe, James H. C., to Degussa Electronics Inc. Continuous casting method and ingot produced thereby. 4,641,704, 2-10-87, Cl. 164-474.000.

Lowe, Laban R.: *See—*
Milstead, Leon R.; Lowe, Laban R.; Schnepfe, Robert W., Jr.; and Erickson, Merlin L., 4,704,967, Cl. 102-334.000.

Lowe, Richard S.; and Saravanos, Constantine, to Northern Telecom Limited. Method and apparatus for measuring single mode fiber mode field radius. 4,636,071, 1-13-87, Cl. 356-73.100.

Lowe, Robert S.: *See—*
Ellis, Ronald W.; Lowe, Robert S.; Keller, Paul M.; and Davison, Andrew J., 4,686,101, Cl. 424-88.000.

Lowe, Thomas B.: *See—*
Fidler, Fredrick H.; and Lowe, Thomas B., 4,714,072, Cl. 126-1.00F.

Lowe, Tony M.; and Bernadic, Thomas J., to GTE Valeron Corporation. Roughing/finishing threader. 4,669,925, 6-2-87, Cl. 407-114.000.

Lowe, Virginia L. Pan insert. 4,677,906, 7-7-87, Cl. 99-450.000.

Lowe, Warren: *See—*
Liston, Thomas V.; Lowe, Warren; and Small, Vernon R., 4,643,838, Cl. 252-52.00R.

Lowe, William F., to E-Z Machine Corp. Apparatus for applying strip reinforcing to sheet material. 4,698,114, 10-6-87, Cl. 156-353.000.

Lowell, Charles R.: *See—*
Sedrick, A. Victor, Jr.; and Lowell, Charles R., 4,679,720, Cl. 228-20.000.

Lowell, Thomas A. Piano soundboard downbearing force simulator. 4,697,494, 10-6-87, Cl. 84-458.000.

Lowenfeld, Simon: *See—*
Kemper, Christian T.; Lowenfeld, Simon; and Fox, Mark S., 4,642,782, Cl. 364-550.000.

Lowenstein, Albert; and Fiedler, Heidi, to Henkel Kommanditgesellschaft auf Aktien. Spinning preparations for melt spinning synthetic fibers. 4,654,153, 3-31-87, Cl. 252-8.900.

Lower, Jerry L., to Zimmer, Inc. Bone screw. 4,640,271, 2-3-87, Cl. 128-92.0YF.

Lower, Ralph C.; Manz, Kenneth W.; and Murray, Gary F., to Kent-Moore Corporation. Service station for refrigeration equipment. 4,688,388, 8-25-87, Cl. 62-126.000.

Lowery, Charles E.; Duncombe, George R.; Line, William F.; and Chicoye, Etzer, to Miller Brewing Company. Preparation of low calorie beer. 4,666,718, 5-19-87, Cl. 426-13.000.

Lowery, James O.: *See—*
Norris, Daniel A.; Lowery, James O.; and Armstrong, Robert F., 4,644,098, Cl. 174-115.000.

Lowery, Joyce: *See—*
Ebeling, Donald C., 4,687,945, Cl. 290-37.00R.

Lowery, Loyd: *See—*
Ebeling, Donald C., 4,687,945, Cl. 290-37.00R.

Lowery, Richard K., Sr.: *See—*
Finan, Anthony T., Sr.; Lowery, Richard K., Sr.; and Leible, Walter T., 4,689,937, Cl. 53-502.000.

Lowes, Albert R., to Mydax, Inc. Wide range temperature control system for fluids. 4,637,454, 1-20-87, Cl. 165-36.000.

Lowey, Hans. Method and composition for the preparation of controlled long-acting pharmaceuticals for oral administration. 4,680,323, 7-14-87, Cl. 524-43.000.

Lowi, Alvin, Jr. Compression ignition engine fumigation system. 4,694,802, 9-22-87, Cl. 123-431.000.

Lowin, David A.; Fayram, Richard A.; and Bivetto, Andrew J., to Syntex (U.S.A.) Inc. Medicament applicator with plunger assembly and automatically-openable closure therefor. 4,636,202, 1-13-87, Cl. 604-236.000.

Lowitz, David A., to Philip Morris Incorporated. Impurity detector measuring parallel polarized scattered electromagnetic radiation. 4,707,652, 11-17-87, Cl. 324-58.50B.

Lown, Harold, to General Electric Company. Centrifugal compressor with injection of a vaporizable liquid. 4,695,224, 9-22-87, Cl. 415-116.000.

Lowrey, Charles B.: *See—*
Price, William E.; Galloway, Louie A., III; Lowrey, Charles B.; and Lewis, Donald R., 4,636,475, Cl. 436-3.000.

Lowrie, Harman S.; and Baran, John S., to G. D. Searle & Co. Pentanedioic acid derivatives. 4,645,858, 2-24-87, Cl. 562-582.000.

Lowrie, Harman S.: *See—*
Baran, John S.; and Lowrie, Harman S., 4,707,499, Cl. 514-471.000.

Lowry, Billy C.: *See—*
Zagar, Gregory J.; Ross, Thomas A.; and Lowry, Billy C., 4,657,140, Cl. 206-397.000.

Lowry, Bobby, to Lowry, June A. Protective bulk pack container for ice cream cones. 4,640,418, 2-3-87, Cl. 206-499.000.

Lowry, Erika R. Disposable sitz bath. 4,674,138, 6-23-87, Cl. 4-446.000.

Lowry, Hugh R.; and Frost, Robert T., to General Electric Company. Continuous metal casting apparatus. 4,662,431, 5-5-87, Cl. 164-503.000.

Lowry, Hugh R.; and Frost, Robert T., to General Electric Company. Continuous metal casting apparatus. 4,709,749, 12-1-87, Cl. 164-503.000.

Lowry, Jerry D.; and Lowry, Sylvia B. Diffused bubble aeration system. 4,663,089, 5-5-87, Cl. 261-23.100.

Lowry, John: *See—*
Rhodes, Charles; and Lowry, John, 4,651,208, Cl. 358-140.000.

Lowry, John A., to E & I Corporation. Aerated grit tank. 4,670,142, 6-2-87, Cl. 210-207.000.

Lowry, John A., III. Dual directional cam cleat. 4,660,493, 4-28-87, Cl. 114-199.000.

Lowry, John D.; and Lucas, Keith, to Scientific-Atlanta, Inc. Method and apparatus for creating encrypted and decrypted television signals. 4,642,688, 2-10-87, Cl. 380-11.000.

Lowry, June A.: *See—*
Lowry, Bobby, 4,640,418, Cl. 206-499.000.

Lowry, Louis D.: *See—*
Katz, Philip; Brenman, Henry S.; Lowry, Louis D.; and Schwartz, Harold, 4,672,673, Cl. 381-70.000.

Lowry, Michael R.: *See—*
Durrant, James A.; and Lowry, Michael R., 4,699,924, Cl. 514-558.000.
Irlam, Geoffrey; Lowry, Michael R.; and Twemlow, Richard M., 4,666,624, Cl. 252-134.000.

Lowry, Robert D. Mixing faucet. 4,644,970, 2-24-87, Cl. 137-625.410.

Lowry, Stephen R.: *See—*
Brierley, Philip R.; and Lowry, Stephen R., 4,695,727, Cl. 250-328.000.

Lowry, Sylvia B.: *See—*
Lowry, Jerry D.; and Lowry, Sylvia B., 4,663,089, Cl. 261-23.100.

Lowther, Gary R.; Jones, Warren W.; and Udavchak, Donald L., to Westinghouse Electric Corp. Dynamoelectric machine with air gap baffle assembly including eccentric rings. 4,654,550, 3-31-87, Cl. 310-59.000.

Lowthian, Peter T., to Simpla Plastics Limited. Anti-kink device for a flexible urine collector. 4,634,437, 1-6-87, Cl. 604-323.000.

Lox, Cornelis M.: *See—*
Ganguli, Keshab L.; Nootenboom, Peter; and Lox, Cornelis M., 4,657,889, Cl. 502-335.000.

Loy, Fernand R., to U.S. Philips Corporation. Optical system for viewing a scene. 4,636,044, 1-13-87, Cl. 350-539.000.

Loy, Fernand R., to U.S. Philips Corporation. Collimator for coordinating two optical devices. 4,639,082, 1-27-87, Cl. 350-172.000.

Loy, Fernand R., to U.S. Philips Corporation. Dual magnification telescope. 4,641,931, 2-10-87, Cl. 350-538.000.

Loy, Fernand R., to U.S. Philips Corporation. Semiactive night viewing system. 4,642,452, 2-10-87, Cl. 250-213.0VT.

Loy, Fernand R., to Telecommunications Radioelectriques et Telephoniques-TRT. Optico-mechanical scanning device. 4,674,826, 6-23-87, Cl. 350-6.800.

Loy, Fernand R., to U.S. Philips Corporation. Binocular eyepiece. 4,679,912, 7-14-87, Cl. 350-410.000.

Loy, Fernand R., to Telecommunications Radioelectriques et Telephoniques, TRT. Optical and mechanical scanning device. 4,687,933, 8-18-87, Cl. 250-334.000.

Loy, Fernand R., to U.S. Philips Corp. Opto-mechanical scanner with fixed-field ranging device. 4,704,521, 11-3-87, Cl. 250-203.00R.

Loy, Fernand R., to U.S. Philips Corporation. Opto-mechanical scanner with fixed-field ranging device. 4,710,621, 12-1-87, Cl. 250-203.00R.

Loy, Jerald M.: *See—*
Grangroth, Robert H.; and Loy, Jerald M., 4,649,339, Cl. 324-158.00F.

Loy, Robert E.; and Baldwin, Donald C., to Dresser Industries, Inc. Road planer control and safety system. 4,655,634, 4-7-87, Cl. 404-84.000.

Loyd, Lewis: *See—*
Knipp, Randall S.; and Loyd, Lewis, 4,710,158, Cl. 493-328.000.

Loyds' Industri A.S.: *See—*
Tolfsen, Ulf, 4,670,951, Cl. 24-637.000.

Loyek, Ernie F., to Lear Fan Limited. Composite cruciform structure for joining intersecting structural members of an airframe and the like. 4,715,560, 12-29-87, Cl. 244-177.00R.

Loyer, Bruce A., to Motorola, Inc. Serial communication interface for a local network controller. 4,652,874, 3-24-87, Cl. 340-825.050.

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Fass, Leon; and Loyevsky, Vladimir, 4,642,899, Cl. 33-140.000.
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Tschernenko, Stanley A.; Crane, Lawrence A.; and Boyce, Jay, 4,636,935, Cl. 364-140.000.

Lozano, Rudy: *See—*
Carney, Joseph H.; and Lozano, Rudy, 4,662,048, Cl. 29-157.00R.

Lozes, Andre: *See—*
Vannier, Serge; Garotta, Robert; Lozes, Andre; and Vidal, Jean C., 4,636,956, Cl. 364-421.000.

Lozier, Benjamin F.: *See—*
Anders, Walter G.; Grosswiller, Leo J., Jr.; Lozier, Benjamin F.; and Rozlosnik, Alan J., 4,710,098, Cl. 415-149.00A.

Lozinski, Daniel L.: *See—*
Lee, John S.; and Lozinski, Daniel L., 4,703,965, Cl. 294-64.100.

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Lozon, Richard. Sound enhancing device. 4,679,481, 7-14-87, Cl. 84-309.000.

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Baker, Robin C.; Brown, Steven E.; Lothrop, John R.; Lozyniak, Roman; Miller, Paul E.; Olsen, Robert H.; Parker, Charles H.; and Swoll, Eva C., 4,680,786, Cl. 379-60.000.

LPF Carburetion, Inc.: *See—*
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RC Electronics, Inc.: *See—*
  Burger, Donald A., 4,645,281, Cl. 339-37.000.
  Cowen, Judith A., 4,691,976, Cl. 439-394.000.
  Hauver, Bruce C., 4,660,921, Cl. 339-177.00R.
RI L.P.: *See—*
  L'Esperance, Francis A., 4,669,466, Cl. 128-303.100.
  L'Esperance, Francis A., Jr., 4,665,913, Cl. 128-303.100.
RV Corporation: *See—*
  Van Kirk, LeRoy, 4,674,665, Cl. 224-273.000.
SI Logic Corporation: *See—*
  Pasch, Nicholas F.; and Hubbard, James L., 4,652,134, Cl. 356-401.000.
  Pasch, Nicholas F., 4,708,770, Cl. 156-662.000.
  Wong, Anthony Y., 4,634,904, Cl. 307-594.000.
T-Produkter Skutskar AB: *See—*
  Eriksson, Tore L., 4,653,409, Cl. 110-182.500.
TH Associates: *See—*
  Tamminen, Pentti, 4,715,934, Cl. 204-10.000.
  Tamminen, Pentti J., 4,684,585, Cl. 429-69.000.
TM Corporation of America: *See—*
  Galerne, Jean, 4,692,844, Cl. 362-3.000.
TV Aerospace and Defense Company: *See—*
  Eden, Dayton D., 4,637,008, Cl. 369-100.000.
  Giacomel, Jeffrey A., 4,655,679, Cl. 415-90.000.
  Murray, William J.; and Earle, George A., III, 4,637,761, Cl. 408-16.000.
  Schell, Gene P., 4,703,922, Cl. 269-61.000.
  Smith, James L., 4,635,245, Cl. 369-275.000.
  While, Donald M.; and Matza, Edward C., 4,645,394, Cl. 411-110.000.
  Yeager, Robert E.; Harder, Isaac F.; and Stone, Earl L., III, 4,659,624, Cl. 428-408.000.
TV Energy Products Company: *See—*
  Daigle, Richard A., Sr.; Stanfield, William G.; and Crenshaw, Michael E., 4,696,602, Cl. 405-205.000.
  Johnson, Phil E.; and Brock, Robert K., 4,638,726, Cl. 92-241.000.
  Richardson, Eugene M.; Brehm, Norbert O.; and Null, Larry G., 4,696,377, Cl. 188-170.000.
LTV Steel Company, Inc.: *See—*
  Toth, James M.; and Harris, Richard M., 4,644,271, Cl. 324-238.000.
Lu, Chi-Chang: *See—*
  Sosinski, Ronald T.; Lu, Chi-Chang; and Maksymiak, John, 4,669,853, Cl. 355-3.0SH.
Lu, Chin H., to Xerox Corporation. Toner compositions containing certain cleaning additives. 4,647,522, 3-3-87, Cl. 430-110.000.
Lu, Chin H., and Baron, Seymour, to Xerox Corporation. Organic sulfate and sulfonate compositions. 4,654,175, 3-31-87, Cl. 260-501.150.
Lu, Chun C.; Miller, William J.; Stephenson, Jack E.; and Jayapalan, Jay P., to Racal Data Communications Inc. Digital voice transmission having improved echo suppression. 4,652,703, 3-24-87, Cl. 379-339.000.
Lu, Chung H.: *See—*
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Lu, Daozheng: *See—*
  Kiewit, David A.; and Lu, Daozheng, 4,644,509, Cl. 367-87.000.
  Kiewit, David A.; and Lu, Daozheng, 4,697,209, Cl. 358-84.000.
  Lert, John G., Jr.; and Lu, Daozheng, 4,677,466, Cl. 358-84.000.
Lu, Guey T.: *See—*
  Murphy, Colin N.; and Lu, Guey T., 4,639,899, Cl. 365-230.000.
Lu, Hsi H. Ground anchor with recoverable steel rods. 4,697,394, 10-6-87, Cl. 52-162.000.
Lu, Jing-Jong; and Wehrmeister, Herbert L., to International Minerals & Chemical Corp. 3-tolylimino-4-amino-4,5-dihydro isoxazole as anthelmintic. 4,636,517, 1-13-87, Cl. 514-380.000.
Lu, Jing-Jong; and Todorovic, Radmilo A., to International Minerals & Chemical Corp. Halogenated saturated hydrocarbons as acaricidal compounds. 4,657,936, 4-14-87, Cl. 514-758.000.
Lu, Jing-Jong, to International Minerals & Chemical Corp. Halogenated resorcylic acid lactone derivatives. 4,690,948, 9-1-87, Cl. 514-544.000.
Lu, Jing-Jong; and Wehrmeister, Herbert L., to International Minerals & Chemical Corp. Phthalamide derivatives with anthelmintic activity. 4,694,016, 9-15-87, Cl. 514-380.000.
Lu, Jing-Jong; and Wehrmeister, Herbert L., to International Minerals & Chemical Corp. Process for preparing phthalimido isoxazoles. 4,716,233, 12-29-87, Cl. 548-245.000.
Lu, Kin S. Retention device for floppy disk pack. 4,667,819, 5-26-87, Cl. 206-312.000.
Lu, Kun-Er: *See—*
  Gadkaree, Kishor P.; Haynes, William L.; and Lu, Kun-Er, 4,711,860, Cl. 501-9.000.
Lu, Li-Hsing. Descending life-escaping device specially for a high building use. 4,679,654, 7-14-87, Cl. 182-5.000.
Lu, Neng H.: *See—*
  Clarke, Thomas C.; Lu, Neng H.; Tomkiewicz, Yaffa; and Tong, Ho M., 4,690,836, Cl. 427-299.000.
Lu, Nicky C., to International Business Machines Corporation. Dynamic memory device having a single-crystal transistor on a trench capacitor structure and a fabrication method therefor. 4,649,625, 3-17-87, Cl. 29-571.000.
Lu, Nicky C.; Ning, Tak H.; and Terman, Lewis M., to International Business Machines Corporation. Dynamic ram cell with MOS trench capacitor in CMOS. 4,688,063, 8-18-87, Cl. 357-23.600.
Lu, Nicky C.: *See—*
  Chao, Hu H.; and Lu, Nicky C., 4,639,622, Cl. 307-482.000.
Lu, Po-Ming. Cleaning gloves. 4,670,930, 6-9-87, Cl. 15-118.000.
Lu, Priscilla M.: *See—*
  Butler, Thomas T.; Lindquist, Wayne V.; and Lu, Priscilla M., 4,654,654, Cl. 340-825.500.
Lu, Shwu-Ching. Combined hydrometer for testing the battery and radiator fluid. 4,697,454, 10-6-87, Cl. 73-440.000.
Lu, Siat-Ling. Cleaning tape cartridge used in videotape recorders. 4,713,713, 12-15-87, Cl. 360-128.000.
Lu, Song-Chin S.: *See—*
  Kidd, Richard L.; Graf, Jerry A.; Engler, Philip J.; and Lu, Song-Chin S., 4,638,131, Cl. 200-61.550.
Lu, Zhi-kang: *See—*
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Luban, Dennis D.: *See—*
  Linial, Andrew V.; Hoyt, John M.; Luban, Dennis D.; and Cullers, James M., 4,665,928, Cl. 128-7[illegible]2.000.
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  Opitz, Norbert; and Lubbers, Dietrich W., 4,643,877, Cl. 422-68.000.
Lubbers, Lawrence M.: *See—*
  Yates, Jan B.; and Lubbers, Lawrence M., 4,644,938, Cl. 128-26.000.
Lubberts, Cor; and Stafford, Gregory N., to Eastman Kodak Company. Electrographic copier with three development stations. 4,699,500, 10-13-87, Cl. 355-4.000.
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Lubeck, Joseph G., to Laureate Innovations, Inc. Retractable seat for gaming devices. 4,657,257, 4-14-87, Cl. 273-148.00R.
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Lubelski, Daniel P.: *See—*
  Baker, Rodney G.; and Lubelski, Daniel P., 4,701,425, Cl. 501-70.000.
Lubenow, Josef K.: *See—*
  Wong, Did-Bun; and Lubenow, Josef K., 4,674,052, Cl. 364-466.000.
Luber, Josef: *See—*
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  Chassaing, Claude; Collart, Jean-Claude; and Lubert, Yves, 4,659,137, Cl. 296-190.000.
Lubet, Carl; and Spector, George. Beachrunners. 4,677,765, 7-7-87, Cl. 36-1.500.
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Lubin, Mark; and Mulnick, Jeffrey L., to Flying Camel, Ltd. Torque loaded ski tuning device. 4,665,778, 5-19-87, Cl. 76-83.000.
Lubin, Mark: *See—*
  Nappholz, Tibor A.; Lubin, Mark; and Valenta, Harry L., Jr., 4,702,253, Cl. 128-419.0PG.
Lubinsky, Anthony R.: *See—*
  Cowan, Carl E.; Lubinsky, Anthony R.; Nylund, Thomas W.; Specht, Malcolm R.; and Spence, John P., 4,708,459, Cl. 355-4.000.
Lubitz, Karl: *See—*
  Kaarmann, Hans; Lubitz, Karl; Mohaupt, Jutta; Vogt, Martina; and Wersing, Wolfram, 4,686,409, Cl. 310-358.000.
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  Roberts, Russell S.; and Briddell, Charles D., 4,646,385, Cl. 17-45.000.
Lubock, Paul; and Sullivan, Mike, to Shiley Inc. Releasable holder and method of use. 4,679,556, 7-14-87, Cl. 128-303.00R.
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Luborsky, Fred; and Lee, Daeyong, to United States of America, Navy. Amorphous alloy toroids. 4,682,486, 7-28-87, Cl. 72-148.000.
Lubotta, Mark S.; and Scullion, Martin, to FCA International Ltd. Method for preparing a returnable self-mailer. 4,668,211, 5-26-87, Cl. 493-188.000.
Lubotta, Mark S.; and Scullion, Martin, to FCA International Ltd. Self-mailer envelope. 4,706,878, 11-17-87, Cl. 229-73.000.
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- Lubricating Systems Company of Texas, Inc.: *See—*
  - Ehlert, Charles W., 4,637,493, Cl. 184-55.100.
- Lubrizol Corporation, The: *See—*
  - Adams, Paul E.; and Luciani, Carmen V., 4,670,169, Cl. 252-46.700.
  - Davis, Kirk E., 4,663,063, Cl. 252-51.50R.
  - Davis, Kirk E., 4,708,809, Cl. 252-33.400.
  - DiBiase, Stephen A.; and Vinci, James N., 4,690,767, Cl. 252-47.000.
  - Dorer, Casper J., Jr.; and Tupa, Robert C., 4,664,677, Cl. 44-68.000.
  - Dorer, Casper J., Jr., 4,666,461, Cl. 44-63.000.
  - Forsberg, John W.; and Jahnke, Richard W., 4,661,275, Cl. 252-49.300.
  - Forsberg, John W., 4,664,834, Cl. 252-77.000.
  - Forsberg, John W., 4,666,620, Cl. 252-75.000.
  - Forsberg, John W., 4,708,753, Cl. 149-2.000
  - Hayashi, Katsumi; Hopkins, T. Robert; and Scharf, Curtis R., 4,670,173, Cl. 252-51.50A.
  - Hoke, Donald I., 4,714,561, Cl. 252-51.50A.
  - Holden, Thomas F.; and Baumann, Albert F., 4,677,074, Cl. 423-541.00A.
  - Jahnke, Richard W., 4,659,492, Cl. 252-49.300.
  - Johnston, Thomas E.; and Dorer, Casper J., Jr., 4,659,338, Cl. 44-68.000.
  - Johnston, Thomas E.; and Dorer, Casper J., Jr., 4,690,687, Cl. 44-67.000.
  - Koch, Frederick W.; and Long, Jeffrey K., 4,654,050, Cl. 44-62.000.
  - Koch, Frederick W.; and Pialet, Joseph W., 4,695,390, Cl. 252-47.500.
  - Lange, Richard M., 4,707,301, Cl. 252-46.600.
  - Malone, Gilbert R.; Skursha, Susan K.; and Jost, Robert M., 4,710,474, Cl. 436-60.000.
  - Quinn, Robert E., 4,642,330, Cl. 528-335.000.
  - Quinn, Robert E., 4,661,544, Cl. 524-109.000.
  - Quinn, Robert E., 4,665,117, Cl. 524-327.000.
  - Senz, R. John, 4,677,146, Cl. 524-69.000.
  - Stoldt, Stephen H.; and Walsh, Reed H., 4,673,412, Cl. 44-68.000.
  - Tipton, Craig D., 4,654,403, Cl. 525-194.000.
  - Vinci, James N., 4,659,488, Cl. 252-33.000.
  - Walsh, Reed H., 4,664,825, Cl. 252-45.000.
- Lubrizol Genetics, Inc.: *See—*
  - McLoughlin, Thomas J., 4,713,330, Cl. 435-34.000.
  - Puhler, Alfred; Simon, Reinhard; and Priefer, Ursula, 4,680,264, Cl. 435-172.300.
  - Puhler, Alfred; and Simon, Reinhard, 4,686,184, Cl. 435-172.300.
- Luc-Co., Inc.: *See—*
  - Moody, Leonardo, 4,655,055, Cl. 63-14.00D.
- Luc, Penelope J. V.; and Ryan, Patrick B., to Luc Technologies Limited. Bonding electrical conductors and bonded products. 4,668,581, 5-26-87, Cl. 428-620.000.
- Luc, Roberto R.: *See—*
  - Crotti, Alessandro; and Luc, Roberto R., 4,703,332, Cl. 346-140.00R.
- Luc Technologies Limited: *See—*
  - Dodds, Ralph G.; and Ryan, Patrick B., 4,700,877, Cl. 228-2.000.
  - Luc, Penelope J. V.; and Ryan, Patrick B., 4,668,581, Cl. 428-620.000.
- Luca, David J.: *See—*
  - Smith, Thomas W.; Ward, Anthony T.; Luca, David J.; and Johnson, Gordon E., 4,638,335, Cl. 346-135.100.
- Lucas, Alfred R.; and Leonard, Jerome C., to Motorola, Inc. Multiple frequency message system. 4,644,347, 2-17-87, Cl. 340-825.040.
- Lucas, August: *See—*
  - Walther, Norbert; Lucas, August; Lorenz, Kurt; and Bruns, Engelbert, 4,690,160, Cl. 134-181.000.
- Lucas, Bennie M.: *See—*
  - Weissberger, Paula S.; and Lucas, Bennie M., 4,666,959, Cl. 523-137.000.
- Lucas, Bruce D.: *See—*
  - Bantz, David F.; Gupta, Satish; and Lucas, Bruce D., 4,644,503, Cl. 365-230.000.
- Lucas, Ekhart: *See—*
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- Lucas Electrical Electronics and Systems Limited: *See—*
  - Cullingford, Christopher V.; Forrester, John S.; and Smith, Gerald B., 4,683,746, Cl. 73-118.100.
  - Moore, Alan R.; Simcox, Graham W.; and Thomas, Allan K., 4,703,567, Cl. 361-417.000.
  - West, John G. W., 4,691,668, Cl. 123-41.120.
  - Yates, Anthony, 4,677,414, Cl. 338-34.000.
- Lucas, Gary M., to General Electric Company. Alkoxy-functional one-component RTV silicone rubber compositions. 4,670,532, 6-2-87, Cl. 528-18.000.
- Lucas, Gary M., to General Electric Company. Room temperature vulcanizable silicone compositions having improved adhesion. 4,680,364, 7-14-87, Cl. 528-15.000.
- Lucas, Gerald B.: *See—*
  - Hawley, Mark R.; and Lucas, Gerald B., 4,664,014, Cl. 89-14.200.
- Lucas, Gerard, to Etablissements Lucas G. Unwinding machine for distributing forage gathered in round bales. 4,643,364, 2-17-87, Cl. 241-55.000.
- Lucas, Gerard; Dussaud, Jacques; and Leroy, Andre, to Boussac Saint Freres B.S.F. Egg timer-shaped absorbent pad for a pair of nappy-pants, and process for the continuous manufacture of such pads. 4,690,719, 9-1-87, Cl. 156-201.000.
- Lucas Huerta, Antonio, to Simes-Senco, S.A. Tool for tying crossing elements. 4,653,548, 3-31-87, Cl. 140-119.000.
- Lucas Industries: *See—*
  - Bradford, Peter F.; Bungay, Michael R.; and Kember, Christopher J., 4,646,703, Cl. 123-557.000.
  - Clarke, Donald B., 4,646,430, Cl. 29-623.100.
  - Hillen, Klaus, 4,637,497, Cl. 188-71.400.
  - Howard, John R., 4,654,577, Cl. 322-28.000.
  - Ingram, Brian; Margetts, Hugh G.; and Rees, John R., 4,702,354, Cl. 188-196.00D.
  - Lilley, Eric M.; and Parker, David J., 4,702,077, Cl. 60-578.000.
  - Lilley, Eric M.; and Parker, David J., 4,703,624, Cl. 60-578.000.
  - Mowbray, Dorian F., 4,652,220, Cl. 417-462.000.
  - Price, Anthony G.; and Campbell, Roy, 4,685,541, Cl. 188-71.400.
  - Price, Anthony G.; Bishop, Robert R.; and Campbell, Roy, 4,703,836, Cl. 188-71.400.
  - Price, Anthony G.; Campbell, Roy; and Green, Andrew P., 4,711,327, Cl. 188-71.400.
  - Thompson, Richard E.; and Uzzel, Robert G., 4,637,498, Cl. 188-71.900.
- Lucas Industries Limited: *See—*
  - Yardley, Alfred; and Pickering, John F., 4,694,651, Cl. 60-578.000.
- Lucas Industries Public Limited Company: *See—*
  - Abinett, Raymond E., 4,711,618, Cl. 417-462.000.
  - Allen, Derek E.; Woodward, Malcolm C.; and Cleaver, Brian W., 4,670,971, Cl. 29-597.000.
  - Anderson, Robert A., 4,702,532, Cl. 303-115.000.
  - Anthony, Peter L.; and Harvey, Ian J., 4,700,143, Cl. 328-151.000.
  - Baker, Philip A., 4,670,822, Cl. 362-226.000.
  - Best, Christopher H.; Lakin, David F.; and Simpkins, Timothy M., 4,702,212, Cl. 123-472.000.
  - Bonin, Jean-Claude, 4,658,793, Cl. 123-502.000.
  - Bowsher, Glynne T., 4,695,819, Cl. 338-153.000.
  - Brearley, Malcolm; and Moseley, Richard B., 4,712,839, Cl. 303-3.000.
  - Briggs, Stuart J.; Parker, David J.; and Schluter, Peter, 4,702,078, Cl. 60-585.000.
  - Chalke, Brian J., 4,641,612, Cl. 123-145.00A.
  - Constance, William J. P., 4,676,427, Cl. 228-189.000.
  - Dawes, Cyril; and Tranter, Donald F., 4,710,238, Cl. 148-16.600.
  - Dawes, Cyril; and Smith, Colin G., 4,713,122, Cl. 148-16.600.
  - Draper, Francis R.; Francis, John H.; and Ogburn, Alan P., 4,706,635, Cl. 123-506.000.
  - Erben, Ralf; and Walden, Michael F. M., 4,678,065, Cl. 188-196.00D.
  - Farr, Glyn P. R., 4,633,981, Cl. 188-181.00A.
  - Farr, Glyn P. R., 4,655,513, Cl. 303-115.000.
  - Farr, Glyn P. R., 4,657,120, Cl. 188-181.00A.
  - Farr, Glyn P. R., 4,669,788, Cl. 303-6.00C.
  - Farr, Glyn P. R., 4,688,382, Cl. 60-562.000.
  - Farr, Glyn P. R., 4,707,036, Cl. 303-6.00C.
  - Farr, Glyn P. R., 4,714,301, Cl. 303-116.000.
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  - Glaze, Stanley G.; and Burrage, Robert G., 4,671,166, Cl. 91-361.000.
  - Gockel, Harald; Thewalt, Reiner; and Giering, Wilfried, 4,688,661, Cl. 188-196.00D.
  - Gravestock, Robert E., 4,655,187, Cl. 123-481.000.
  - Greeves, Godfrey, 4,691,864, Cl. 239-453.000.
  - Hales, Bernard C., 4,648,361, Cl. 123-179.00H.
  - Hammond, John E.; and Wooding, Peter T., 4,646,896, Cl. 192-0.098.
  - Harvey, David M.; and Moody, Charistopher J., 4,706,887, Cl. 239-453.000.
  - Hillen, Klaus; Price, Anthony G.; and Campbell, Roy, 4,676,345, Cl. 188-72.200.
  - Howes, Peter, 4,641,784, Cl. 239-453.000.
  - Hudson, Philip, 4,633,984, Cl. 192-9.000.
  - Ingram, Brian; Margetts, Hugh G.; and England, Michael J., 4,702,352, Cl. 188-79.5GE.
  - Janes, Roderick S., 4,700,120, Cl. 318-696.000.
  - Komatz, Dennis J., 4,679,680, Cl. 192-85.00R.
  - Lakin, David F., 4,665,875, Cl. 123-449.000.
  - Lakin, David F., 4,691,679, Cl. 123-450.000.
  - Layton, Charles T., 4,666,022, Cl. 188-343.000.
  - Lintott, Edward R., 4,680,857, Cl. 29-596.000.
  - Logie, Frank M., 4,677,743, Cl. 29-596.000.
  - Logie, Frank M., 4,716,393, Cl. 335-261.000.
  - McCann, Denis J.; and Carswell, Edwin R., 4,643,491, Cl. 303-118.000.
  - McCann, Denis J.; and Ross, Colin F., 4,696,521, Cl. 303-92.000.
  - McEwan, Keith J. B., 4,693,948, Cl. 429-121.000.
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  - Morris, John R., 4,656,567, Cl. 362-231.000.
  - Mowbray, Dorian F., 4,635,853, Cl. 239-533.300.
  - Price, Anthony G.; Parry, David; and Campbell, Roy, 4,653,614, Cl. 188-70.00B.
  - Price, Anthony G.; and Campbell, Roy, 4,702,351, Cl. 188-71.400.
  - Pruneda, Domingo C., 4,694,795, Cl. 123-373.000.
  - Quiney, Kenneth M.; and Hinsley, Stephen J., 4,674,282, Cl. 60-581.000.
  - Rath, Heinrich B.; and Schemmel, Winfried, 4,685,540, Cl. 188-1.110.
  - Rath, Heinrich B., 4,700,813, Cl. 188-18.00A.

- Rath, Heinrich-Bernhard, 4,700,816, Cl. 188-323.000.
- Rath, Heinrich-Bernhard; and Holz, Dietrich, 4,706,783, Cl. 188-79.50B.
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- Reynolds, Desmond H. J., 4,700,990, Cl. 303-6.00R.
- Riding, Kenneth; and Adamson, John, 4,682,905, Cl. 403-327.000.
- Rohsler, Ivor C.; and Clark, Anthony F. C., 4,642,671, Cl. 357-79.000.
- Rouse, John A.; and Mowbray, Dorian F., 4,699,108, Cl. 123-450.000.
- Skerritt, Robert C., 4,636,777, Cl. 340-635.000.
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- Smith, Sidney B., 4,706,179, Cl. 363-126.000.
- Stratton, John F., 4,662,179, Cl. 60-737.000.
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- Thompson, Richard E., 4,678,067, Cl. 188-328.000.
- Topic, Aloyzija; and Rohling, Bernd-Holger, 4,677,420, Cl. 340-52.00A.
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- cas, James A.; and Trumble, William P., to Northern Telecom Limited. Fluorescent solder paste mixture. 4,670,298, 6-2-87, Cl. 427-96.000.
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- ucas, Keith, to Scientific-Atlanta, Inc. Frequency generation for multiplexed analog component color television encoding and decoding. 4,652,903, 3-24-87, Cl. 358-11.000.
- ucas, Keith: *See—*
  - Lowry, John D.; and Lucas, Keith, 4,642,688, Cl. 380-11.000.
- ucas, Paul B., to Carroll Touch Inc. Touch input device having power profiling. 4,672,364, 6-9-87, Cl. 340-365.00P.
- ucas, Peter A.: *See—*
  - Bogan, Gary W.; Lucas, Peter A.; and Monnerat, Georgia A., 4,701,481, Cl. 523-428.000.
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- ucas, Peter H.: *See—*
  - Shaffer, Donald E., Racik, Stanley A.; Lucas, Peter H.; and Vriesen, Calvin W., 4,671,744, Cl. 417-381.000.
- ucas Sales Company, Inc.: *See—*
  - Vandemore, William J., 4,635,409, Cl. 52-60.000.
- ucas, William G.: *See—*
  - Nicolay, Hugh C.; and Lucas, William G., 4,670,769, Cl. 357-50.000.
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- ucash, Jeffrey S.; and Mann, Joy L., to International Business Machines Corporation. Display of multiple data windows in a multi-tasking system. 4,651,146, 3-17-87, Cl. 340-721.000.
- ucash, Jeffrey S.: *See—*
  - Cheselka, Harry; Lucash, Jeffrey S.; and Vincent, William R., 4,653,020, Cl. 364-900.000.
- ucassen, Guenter: *See—*
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- ucassen, Gunter: *See—*
  - Hergeth, Adolph; Lucassen, Gunter; and Pinto, Akiva, 4,715,722, Cl. 366-132.000.
- ucatorto, Thomas B.; Clark, Charles W.; and Whitaker, Tom J., to Atom Sciences, Inc. Ultrasensitive method for measuring isotope abundance ratios. 4,634,864, 1-6-87, Cl. 250-282.000.
- Lucca, Eusebio, to Matec Holding. Process for producing double-layered structures. 4,637,909, 1-20-87, Cl. 264-510.000.
- Luccarelli, Domenick, Jr.: *See—*
  - Pittet, Alan O.; Muralidhara, Ranya; Vock, Manfred H.; Luccarelli, Domenick, Jr.; Miller, Kevin P.; and Wiener, Charles, 4,634,595, Cl. 426-535.000.
  - Pittet, Alan O.; Muralidhara, Ranya; Vock, Manfred H.; Miller, Kevin P.; Luccarelli, Domenick, Jr.; and Wiener, Charles, 4,652,670, Cl. 560-147.000.
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  - Pittet, Alan O.; Muralidhara, Ranya; Vock, Manfred H.; Luccarelli, Domenick, Jr.; Miller, Kevin P.; and Wiener, Charles, 4,701,548, Cl. 560-152.000.
- Lucci, Roberto; and Orlandini, Paolo, to Fantoni Arredamenti S.p.A. Adjustable chair. 4,697,846, 10-6-87, Cl. 297-298.000.
- Luccioni, Alain: *See—*
  - Jarry, Alain; Gozard, Jean-Pierre; Kennel, Yves; and Luccioni, Alain, 4,667,026, Cl. 536-114.000.
- Luce, Herve : *See—*
  - Leynadier, Francisque; and Luce, Herve , 4,640,897, Cl. 436-501.000.
- Luce, Mark C.: *See—*
  - Starkston, Robert; Luce, Mark C.; and Homsy, Robert V., 4,647,397, Cl. 252-189.000.
- Luce, Ronald W. Vehicle air brake system with pressure separating brake housing. 4,685,744, 8-11-87, Cl. 303-89.000.
- Luceri, Thomas J., to Personal Products Company. Smooth-edged contoured sanitary napkin. 4,654,040, 3-31-87, Cl. 604-385.00R.
- Luceri, Thomas J.: *See—*
  - DeRossett, Edmund Z.; and Luceri, Thomas J., 4,710,186, Cl. 604-383.000.
  - Glaug, Frank S.; Luceri, Thomas J.; and Parr, Deborah J., 4,701,178, Cl. 604-387.000.
- Lucerne Products, Inc.: *See—*
  - Sahrbacker, Edward V., 4,705,920, Cl. 200-43.040.
- Lucero, James L. Drive-through credit card payment device. 4,675,515, 6-23-87, Cl. 235-381.000.
- Lucey, Willard J.; and Waugh, Arthur, to BTU Engineering Corporation. Electric furnace heater. 4,687,911, 8-18-87, Cl. 219-553.000.
- Luchaco, David G.; and Capewell, Dennis, to Lutron Electronics Co., Inc. High frequency gas discharge lamp dimming ballast. 4,663,570, 5-5-87, Cl. 315-219.000.
- Luchi, Luciano, to Officine Savio S.p.A. Compound needle and knitting machine. 4,674,301, 6-23-87, Cl. 66-13.000.
- Luchinger, Paul, to Mettler Instrumente AG. Precision balance. 4,700,793, 10-20-87, Cl. 177-181.000.
- Luchsinger, Pedro W. Sprayer and diaphragm pump therefor. 4,690,331, 9-1-87, Cl. 239-333.000.
- Luchsinger, Pedro W. Diaphragm pump. 4,702,419, 10-27-87, Cl. 239-333.000.
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  - Pagliai, Ferro D.; and Luchsinger, Pedro W., 4,702,416, Cl. 239-11.000.
- Lucht, Hartmut: *See—*
  - Nebe, Wolfgang; Reichel, Jutta; Biehler, Klaus; Lucht, Hartmut; and Drommert, Heinz, 4,691,110, Cl. 250-458.100.
- Lucht, Philip H.: *See—*
  - Andrews, David H.; Lucht, Philip H.; and Putnam, Leland K., 4,646,075, Cl. 340-747.000.
- Lucia, Antonio: *See—*
  - Genevois, Jean L.; Lucia, Antonio; and Di Fabio, Emidio, 4,636,169, Cl. 432-90.000.
- Luciani, Carmen V.: *See—*
  - Adams, Paul E.; and Luciani, Carmen V., 4,670,169, Cl. 252-46.700.
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  - Lofgren, Barbro U.; Luciani, Luciano; Seppanen, Hanneli; Stjernberg, Maria H.; and Iiskola, Eero I., 4,673,661, Cl. 502-111.000.
- Luciani, Sabatino: *See—*
  - Santandrea, Luciano; and Luciani, Sabatino, 4,713,883, Cl. 29-736.000.
- Luciano, Robert A.: *See—*
  - Dickinson, Peter D.; and Luciano, Robert A., 4,635,937, Cl. 273-143.00R.
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- Lucius, Thomas A.: *See—*
  - Nowicki, Casimir W.; Lucius, Thomas A.; Kaminski, Ronald S.; and Snyder, Robert P., 4,680,000, Cl. 425-126.00R.
- Lucius, Werner, to Webasto-Werk W. Baier GmbH & Co. Heater, especially a heater for vehicles. 4,640,262, 2-3-87, Cl. 126-110.00B.
- Lucius, Werner; Mosig, Ernst; and Riedmaier, Josef, to Webasto-Werk W. Baier GmbH & Co. Connecting device for power supply and heater equipped therewith. 4,700,889, 10-20-87, Cl. 237-12.30C.
- Luck, Edwin, to Ingersoll Cutting Tool Company. Insert clamping device and insert therefor. 4,697,963, 10-6-87, Cl. 407-105.000.
- Luckas, Brund: *See—*
  - Rasshofer, Werner; Ganster, Otto; Luckas, Brund; and Rottmaier, Ludwig, 4,707,502, Cl. 521-159.000.
- Lucke, Roland; and Balkenhol, Bernhard, to Gebr. Lodige Maschinenbau Gesellschaft mbH. Method of mixing particulate materials. 4,674,887, 6-23-87, Cl. 366-325.000.
- Luckenbach, Edward C.; and Bertsch, Carl F., to Exxon Research and Engineering Company. Method for passivating cracking catalyst. 4,666,584, 5-19-87, Cl. 208-113.000.
- Luckenbill, Lawrence F.: *See—*
  - Lair, John E.; Luckenbill, Lawrence F.; and Holliday, Richard J., 4,712,575, Cl. 137-218.000.
- Luckey, George W.; Roth, Bernard; Brendel, Kathleen E.; and Den Dunne, Margaret S., to Eastman Kodak Company. High efficiency fluorescent screen pair for use in low energy X radiation imaging. 4,710,637, 12-1-87, Cl. 250-486.100.
- Luckey, George W.: *See—*
  - DeBoer, Charles D.; and Luckey, George W., 4,637,898, Cl. 252-301.360.

- Luckger, Rolf: *See—*
  - Feller, Otto; Brocksieper, Manfred; and Luckger, Rolf, 4,679,472, Cl. 82-19.000.
- Lucking, K. A.: *See—*
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- Luckner, Joachim: *See—*
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- Lucks Company, The: *See—*
  - McCoy, James M.; and Allen, Beverly J., 4,646,630, Cl. 99-468.000.
- Lucks, Rudiger: *See—*
  - Neuhaus, Clemens; Lucks, Rudiger; Breidohr, Hans G.; and Wick, Gerhard, 4,649,991, Cl. 165-159.000.
- Lucky, Clyde L.: *See—*
  - Nelson, Roger E.; and Lucky, Clyde L., 4,676,883, Cl. 204-298.000.
- Lucky, Lloyd P. Cooking rack. 4,637,303, 1-20-87, Cl. 99-426.000.
- Lucky, Lloyd P. Magnetic utensil-holder. 4,638,786, 1-27-87, Cl. 126-24.000.
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  - Ramallo, Tomas A.; Puchal, Francisco M.; Pinol, Juan C.; and Julia, Enric, 4,665,099, Cl. 514-763.000.
- Lucy, Andrew R.; and Morris, George E., to British Petroleum Company p.l.c., The. Oxidative carbonylation to make dicarboxylic acid esters. 4,642,374, 2-10-87, Cl. 560-204.000.
- Lucy, Melvin H., to United States of America, National Aeronautics and Space Administration. Fully redundant mechanical release actuator. 4,669,354, 6-2-87, Cl. 89-1.140.
- Lucy, Robert F.: *See—*
  - Watson, John T.; and Lucy, Robert F., 4,667,103, Cl. 250-332.000.
- Luczak, Francis J.; and Landsman, Douglas A., to International Fuel Cells Corporation. Ordered ternary fuel cell catalysts containing platinum and cobalt and method for making the catalysts. 4,677,092, 6-30-87, Cl. 502-185.000.
- Luczak, Francis J.; and Landsman, Douglas A., to International Fuel Cells Corporation. Ordered ternary fuel cell catalysts containing platinum and cobalt. 4,711,829, 12-8-87, Cl. 429-44.000.
- Luczak, Jean P.: *See—*
  - Riviere, Guy; and Luczak, Jean P., 4,696,637, Cl. 425-589.000.
- Ludens, James H.: *See—*
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- Luderer, Albert A.: *See—*
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- Luderer, Gottfried W. R., to AT&T Bell Laboratories. Self-routing packets with stage address identifying fields. 4,651,318, 3-17-87, Cl. 370-94.000.
- Ludewig, Fritz: *See—*
  - Janusch, Alois; Lugscheider, Walter; and Ludewig, Fritz, 4,673,510, Cl. 210-712.000.
- Ludikhuize, Adrianus W., to U.S. Philips Corporation. Semiconductor device. 4,682,205, 7-21-87, Cl. 357-53.000.
- Ludington, Robert L.: *See—*
  - Holloway, Robert M.; Ludington, Robert L.; and Beacon, Robert G., 4,646,882, Cl. 188-202.000.
- Ludlum, John P.; and Ludlum, Shirley G. Printing fine art with fluorescent and non-fluorescent colorants. 4,652,464, 3-24-87, Cl. 427-157.000.
- Ludlum, Shirley G.: *See—*
  - Ludlum, John P.; and Ludlum, Shirley G., 4,652,464, Cl. 427-157.000.
- Ludszeweit, Dieter: *See—*
  - Wahle, Gunter; and Ludszeweit, Dieter, 4,693,263, Cl. 131-84.400.
- Ludvigsen, Poul F. B., to Brdr. Ludvigsen, Tommfrup APS. Apparatus for the application of a strip along the side edges of a sheet. 4,710,084, 12-1-87, Cl. 412-9.000.
- Ludvik, Charles N., to Stauffer Chemical Company. Method for preparation of alkylsulfonyl alkylchlorobenzenes. 4,675,447, 6-23-87, Cl. 568-28.000.
- Ludwick, George E., to United States of America, Air Force. Super gripper variable vane arm. 4,668,165, 5-26-87, Cl. 415-148.000.
- Ludwick, John J.; and Parsons, Edward S., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Automatically variable phase characteristic all-pass circuit. 4,663,583, 5-5-87, Cl. 323-217.000.
- Ludwig, Arthur L.: *See—*
  - Kelm, James S.; Ludwig, Arthur L.; Maclin, Harvey M.; Roggenkamp, Steven K.; and Wakeman, Thomas G., 4,688,310, Cl. 29-156.80R.
- Ludwig, Bernd. Method and device for the aligning of an element, e.g. frame, to be inserted into a wall opening. 4,679,373, 7-14-87, Cl. 52-745.000.
- Ludwig, Bernd; and Stiehl, Dirk, to Square D Starkstrom GmbH Switch gear. 4,713,498, 12-15-87, Cl. 200-5.00R.
- Ludwig Boschert GmbH & Co. KG: *See—*
  - Kunz, Peter, 4,681,478, Cl. 403-341.000.
- Ludwig, Clifford J.; and Delia, Anthony D., to Drackett Company, The. Dispenser with fluid pathway including valve to form air lock. 4,707,865, 11-24-87, Cl. 4-228.000.
- Ludwig, David C.; and Dobbs, Robert J., to GTE Products Corporation. Silicon nitride abrasive frit. 4,659,341, 4-21-87, Cl. 51-293.000.
- Ludwig, Frank, to P.T.E. Inc.; and American Energy Services, Inc. Utility pole tester. 4,640,119, 2-3-87, Cl. 73-12.000.
- Ludwig, George C., to AVM, Inc. Pneumatic counterbalance. 4,635,908, 1-13-87, Cl. 267-64.110.
- Ludwig, Hans, to Heinrich Brinkmann Anlagenverpachtung GmbH & Co. KG. Chimney deflector hood. 4,655,121, 4-7-87, Cl. 98-78.000.
- Ludwig Heumann & Co. GmbH: *See—*
  - Herter, Rolf; Schickaneder, Helmut; Morsdorf, Peter; Postius, Stefan; Szelenyi, Istvan; and Ahrens, Kurt H., 4,666,921, Cl. 514-326.000.
  - Kisielowski, Lothar; Grafe, Ingomar; Liebenow, Walter; and Ahrens, Kurt H., 4,697,035, Cl. 558-344.000.
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  - Prochazka, Josef; and von Gratz, Jochen G., 4,671,914, Cl. 264-118.000.
  - Schickaneder, Helmut; Hoxer, Klaus; and Ahrens, Kurt H., 4,634,700, Cl. 514-227.000.
  - Schickaneder, Helmut; and Ahrens, Kurt H., 4,647,684, Cl. 558-8.000.
  - Schickaneder, Helmut; Postius, Stefan; Szelenyi, Istvan; Morsdorf, Peter; Herter, Rolf; and Ahrens, Kurt H., 4,659,721, Cl. 514-326.000.
- Ludwig, Jurgen: *See—*
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- Ludwig, Keith A.: *See—*
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- Ludwig, Manfred: *See—*
  - Schreiber, Wolfgang; Ludwig, Manfred; and Hald, Ewald, 4,655,103, Cl. 81-474.000.
- Ludwig, Nelson H., to Eli Lilly and Company. Process for formulating a synthetic drug for use in animal feed, and resulting formulation 4,665,100, 5-12-87, Cl. 514-778.000.
- Ludwig, Paul: *See—*
  - Delaunay, Marc; Gualandris, Rene; Geller, Richard; Jacquot, Claude; Ludwig, Paul; Mathonnet, Jean-Marc; Rocco, Jean-Claude; Sermet, Pierre; Zadworny, Francois; and Bourg, Francois, 4,638,216, Cl. 315-111.810.
- Ludwig, Richard H.; and Mikhail, Joanne E., to Westinghouse Electric Corp. Elevator system. 4,638,889, 1-27-87, Cl. 187-29.00R.
- Ludwig, Richard H.: *See—*
  - Martin, Matthew; and Ludwig, Richard H., 4,648,488, Cl. 187-126.000.
- Ludwig Schwerdtel GmbH: *See—*
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- Lue, Hsueh C., to U.S. Philips Corp. Container for electronic components. 4,690,274, 9-1-87, Cl. 206-328.000.
- Lue, Tom F.: *See—*
  - Tanagho, Emil A.; Schmidt, Richard A.; Gleason, Curtis A.; and Lue, Tom F., 4,703,755, Cl. 128-419.00R.
- Luebeck, Duane A.: *See—*
  - Scherer, William C.; Tam, Jimmy W.; and Luebeck, Duane A., 4,685,621, Cl. 239-288.000.
- Luechinger, Paul, to Mettler Instrumente AG. Precision scale of the electronic signal processing type having an auxiliary keyboard 4,676,327, 6-30-87, Cl. 177-126.000.
- Luecke, Robert A.; and Gould, Gordon E., to Dow Chemical Company, The. Tubular, multi-layer film and method of making 4,643,927, 2-17-87, Cl. 428-36.000.
- Lueddecke, Erik: *See—*
  - Auweter, Helmut; Horn, Dieter; and Lueddecke, Erik, 4,637,716, Cl. 356-28.500.
- Luedeman, Harold J. Lawn edger. 4,645,010, 2-24-87, Cl. 172-13.000.
- Luehman, Kent W.: *See—*
  - Bliek, Genevieve M.; and Luehman, Kent W., 4,675,864, Cl. 370-85.000.
- Luen, Lam M. Rotary head. 4,711,310, 12-8-87, Cl. 175-171.000.
- Luerken, Adolf; Cannistra, John S.; Zimmerer, John L.; and Pilatowicz, Edward J., to McCulloch Corporation. Lawn/garden blower/-vacuum. 4,644,606, 2-24-87, Cl. 15-330.000.
- Luers, Georg; and Sobottka, Richard, to Grace G.m.b.H. Combined antiblocking and lubricant concentrate. 4,675,122, 6-23-87, Cl. 252-28.000.
- Luers, Thomas J., to Halliburton Company. Gravel packing apparatus and method. 4,700,777, 10-20-87, Cl. 166-185.000.
- Luetzelschwab, Wayne E., to Marathon Oil Company. Production of a polyacrylamide solution used in an oil recovery process. 4,633,947, 1-6-87, Cl. 166-252.000.
- Luetzelschwab, Wayne E., to Marathon Oil Company. Apparatus and method for the continuous production of aqueous polymer solutions. 4,661,538, 4-28-87, Cl. 523-348.000.
- Luetzelschwab, Wayne E., to Marathon Oil Company. Dilution apparatus and method. 4,679,628, 7-14-87, Cl. 166-252.000.
- Luetzow, Edwin J., to Minnesota Technical Research. Solenoid for use in harsh environment conditions. 4,656,448, 4-7-87, Cl. 335-262.000.
- Lufkin, John R.: *See—*
  - Otteman, John H.; and Lufkin, John R., 4,691,669, Cl. 123-41.150.
- Luft, Christa: *See—*
  - Grutte, Friedrich-Karl; Petzold, Heinrich; Walter, Ulrich; Bogs, Gunhild; Domeratzky, Joachim; Gartner, Helmut; Schulze, Jurgen; Zunft, Hans-Joachim; Pulz, Otto; Luft, Christa; Muller, Walheide; Wolk, Petra; Dahlke, Hannelore; and Volkmer, Margret, 4,692,340, Cl. 426-72.000.

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go, Steven H. Signal flag apparatus for water skiing. 4,640,213, 2-3-87, Cl. 114-253.000.

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Bakonyi, Maria; Lugosi, Gyorgy; Kallai, Tamas; Hima nee Toth, Maria; Montai, Tibor; and Sziladi, Maria, 4,675,413, Cl. 548-329.000.

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Lutz, Reinhold; Wendt, Helgo, deceased; Meinhardt, Helmut; Eschnauer, Heinz; and Lugscheider, E., 4,671,932, Cl. 420-452.000.

ugscheider, Walter: *See—*
Ebeling, Joachim; Friedrich, Peter; Jekat, Herbert; Lugscheider, Walter; Riegler, Ernst; Zajicek, Ernst; Achleitner, Walter; and Jarema, Ferdinand, 4,644,557, Cl. 373-22.000.
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Wallner, Felix; Krier, Adam; Lugscheider, Walter; Uckert, Gotthard; and Freimann, Paul, 4,651,656, Cl. 110-346.000.

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uhn, Wolfgang: *See—*
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uhowyj, Vladimir. Panel installation tool and method. 4,709,460, 12-1-87, Cl. 29-271.000.

uhr, Hartmut: *See—*
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Dreyer, Heinz; Scheufler, Bernd; Wiemeyer, Benno; and Luhrmann, Johannes, 4,694,759, Cl. 111-85.000.

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Hilgendorff, Walter; Wenzlaff, Axel; Boddeker, Karl; Kahn, Gerhard; and Luhrs, Gunter, 4,650,574, Cl. 210-180.000.

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Lui, Chun K., to Westinghouse Electric Corp. Cross brace for stiffening a water cross in a fuel assembly. 4,659,543, 4-21-87, Cl. 376-444.000.

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Lui, Joseph H.; and Shreve, David S., to Goodyear Tire & Rubber Company, The. Rubber polymerases and methods for their production and use. 4,638,028, 1-20-87, Cl. 524-387.000.

Luigi, Caprioglio. Apparatus for the manufacture of ring members. 4,634,038, 1-6-87, Cl. 228-17.500.

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Mottana, Sergio; and Roberto, Mostura, 4,635,526, Cl. 89-1.410.

Luigi, Nava P., to Nava & C. S.p.A. Protective device applicable to helmets, especially for sports use. 4,697,289, 10-6-87, Cl. 2-422.000.

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Luijten, Waltherus J. T. H.; and Moonen, Johannes J. E., to Ultra-Centrifuge Nederland N.V. High-vacuum molecular pump. 4,684,317, 8-4-87, Cl. 415-73.000.

Luine, George J.; and Luine, John L. Bottle mounted adjustable liquor dispensing device. 4,690,313, 9-1-87, Cl. 222-454.000.

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Luine, George J.; and Luine, John L., 4,690,313, Cl. 222-454.000.

Luinstra, Mark F.; and McGloin, Stephen, to Elevators Pty. Limited. Lift car support. 4,660,682, 4-28-87, Cl. 187-1.00R.

Luise, Robert R., to Du Pont de Nemours, E. I., and Company. Facilitation of orientation of thermotropic polymers in a magnetic field. 4,668,415, 5-26-87, Cl. 252-62.540.

Luiset, Jean-Jacques; and Seigneurin, Michel, to Micro-Mega S.A. Contra-angle for dental handpiece. 4,673,351, 6-16-87, Cl. 433-29.000.

Luiset, Jean-Jacques; and Seigneurin, Michel, to Micro-Mega S.A. Contra-angle or turbine head of a dental handpiece. 4,690,641, 9-1-87, Cl. 433-129.000.

Luitje, William V., to Chrysler Motors Corporation. Time of day clock. 4,708,491, 11-24-87, Cl. 368-156.000.

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Lujano, Juan: *See—*
Martinez, Nelson P.; Galiasso, Roberto E.; Velasquez, Jose R.; Lujano, Juan; and Zerpa, Carlos, 4,689,314, Cl. 502-210.000.

Lujano, Juan A.: *See—*
Martinez, Nelson P.; Valasquez, Jose R.; and Lujano, Juan A., 4,704,375, Cl. 502-64.000.

Luk Lamellen und Kupplungsbau GmbH: *See—*
Huber, Lothar, 4,637,505, Cl. 192-88.00A.
Keck, Karl, 4,681,200, Cl. 192-70.270.
Kohler, Helmut, 4,635,775, Cl. 192-70.180.
Kunz, Martin; and Pretzel, Dieter, 4,667,793, Cl. 192-70.120.
Maucher, Edmund, 4,684,007, Cl. 192-106.200.
Maucher, Paul, 4,638,684, Cl. 74-574.000.
Maucher, Paul; and Huber, Lothar, 4,660,700, Cl. 192-89.00B.
Maucher, Paul; and Friedmann, Oswald, 4,681,199, Cl. 192-70.230.
Maucher, Paul; and Honemann, Rudolf, 4,700,821, Cl. 192-106.200.
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Maucher, Paul, 4,708,230, Cl. 192-98.000.

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Lukac, Teodor; Soukup, Milan; and Widmer, Erich, to Hoffmann-La Roche Inc. Process for carotenoid intermediates. 4,701,540, 10-20-87, Cl. 549-341.000.

Lukacs, Sandor: *See—*
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Lukacz, Stephen A.: *See—*
Lawall, Thomas R.; and Lukacz, Stephen A., 4,708,644, Cl. 432-106.000.

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Tortorello, Anthony J.; and Lukanich, Joseph D., 4,665,146, Cl. 526-304.000.
Tortorello, Anthony J.; and Lukanich, Joseph D., 4,713,481, Cl. 560-159.000.

Lukas, Helmut H.; and Pacey, Grant K., to Bell-Northern Research Ltd. Apparatus for aligning an article relative to a datum. 4,687,287, 8-18-87, Cl. 350-96.200.

Lukas, Helmut H.; and Pacey, Grant K., to Northern Telecom Limited. Two-channel hermaphroditic fiber connector. 4,712,861, 12-15-87, Cl. 350-96.210.

Lukas, Stephen, to Capsule Technology International, Ltd. Method for drying gelatin in the manufacture of hard shell gelatin capsules. 4,705,658, 11-10-87, Cl. 264-25.000.

Lukas, Stephen J.: *See—*
Jarvinen, W. Bruce; and Lukas, Stephen J., 4,697,126, Cl. 318-331.000.

Lukas, Thomas J.: *See—*
Hawiger, Jack J.; Timmons, Sheila; Lukas, Thomas J.; and Kloczewiak, Marek, 4,661,471, Cl. 514-13.000.

Lukasiewicz, Mark, to Kendall Company, The. Monitoring device for bio-signals. 4,709,704, 12-1-87, Cl. 128-644.000.

Lukaszczyk, Alfons; Martin, Henry; Diel, Peter J.; Fory, Werner; Gotzi, Karl; Kristinsson, Haukur; Muller, Beat; Muntwyler, Rene; Pachlatko, Johannes P.; Rempfler, Hermann; Schurter, Rolf; and Szczepanski, Henry, to Ciba-Geigy Corporation. Thiadiazolyl-glyoxylonitrile-2-oxime ether derivatives for protecting plant crops. 4,715,883, 12-29-87, Cl. 71-90.000.

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Luke, John A., to Brown & Williamson Tobacco Corporation. Cigarettes. 4,637,410, 1-20-87, Cl. 131-361.000.

Luke, John A.; and McCreadie, John F., to British-American Tobacco Company Limited. Smoking articles. 4,651,756, 3-24-87, Cl. 131-95.000.

Luke, John A., to Brown & Williamson Tobacco Corporation. Smoking article mouthpieces. 4,677,996, 7-7-87, Cl. 131-336.000.

Luke, John A., to British-American Tobacco Company Limited. Making of multi-element smoking article rod. 4,714,083, 12-22-87, Cl. 131-94.000.

Luke, Mike A., to Baker Oil Tools, Inc. Method and apparatus for steam injection in subterranean wells. 4,648,455, 3-10-87, Cl. 166-303.000.

Luke, Mike A., to Baker Oil Tools, Inc. High temperature packer for well conduits. 4,665,978, 5-19-87, Cl. 166-196.000.

Luke, Paul D., to British Aerospace PLC. Gyroscope having temperature controlling arrangement. 4,651,576, 3-24-87, Cl. 74-5.460.

Luke, Robert R.; Barker, James M.; Smith, Michael L.; Grigar, Larry L.; and Miller, Carl B., to Halliburton Company. Tubing pressure operated initiator for perforating in a well borehole. 4,678,044, 7-7-87, Cl. 175-4.520.

Luke, Robert R.; and Barker, James M., to Halliburton Company. Tubing conveyed perforating safety anchor. 4,693,308, 9-15-87, Cl. 166-55.100.

Luke, Roger D.: *See—*
Perkins, Norman P.; Luke, Roger D.; and Kaufman, Steven A., 4,636,915, Cl. 361-355.000.
Young, John W.; Luke, Roger D.; Rhodes, Henry J.; and Hudgins, Jeffrey K., 4,649,241, Cl. 200-82.00R.

- Luke, Rylan D., to Ampex Corporation. Single oscillator PAL generator lock system. 4,675,723, 6-23-87, Cl. 358-19.000.
- Luken, Clement H., Jr.; and Kinsman, Donald V., to National Distillers and Chemical Corporation. Decorative candles. 4,682,947, 7-28-87, Cl. 431-288.000.
- Luken, Clement H., Jr.; and Kinsman, Donald V., to National Distillers and Chemical Corporation. Wax compositions. 4,714,496, 12-22-87, Cl. 106-270.000.
- Lukenbach, Elvin R.; Naik-Satam, Prakash; and Schwartz, Anthony M., to Johnson & Johnson Baby Products Company. Process for the preparation of isethionic acid. 4,696,773, 9-29-87, Cl. 260-513.00R.
- Lukenbach, Elvin R.: *See—*
  - Clum, Charles E.; Murray, William V.; and Lukenbach, Elvin R., 4,663,156, Cl. 424-59.000.
  - Murray, William V.; Clum, Charles E.; and Lukenbach, Elvin R., 4,663,155, Cl. 424-59.000.
- Lukens General Industries, Inc.: *See—*
  - Jackson, Keith L., 4,648,326, Cl. 105-168.000.
  - Kulp, Jack H.; and Cunningham, Richard M., 4,710,053, Cl. 404-9.000.
- Lukens, Herbert R., to IRT Corporation. Producing lipid-protein membranes for chemical detection. 4,661,442, 4-28-87, Cl. 435-4.000.
- Lukens, J. Paul, Jr., to Phillocraft Company. Air-equipped table. 4,702,664, 10-27-87, Cl. 414-676.000.
- Luker, Graham J., to Efco Manufacturing Company Pty. Limited. Latch lock mechanism. 4,682,799, 7-28-87, Cl. 292-169.150.
- Lukes, Jindrich: *See—*
  - Safar, Vaclav; Lukes, Jindrich; and Pleskot, Ales, 4,699,327, Cl. 242-18.000.
- Lukevits, Edmund Y.: *See—*
  - Bremanis, Gunar A.; Kalvinsh, Ivars Y.; Antsena, Irene B.; Lukevits, Edmund Y.; Veveris, Maris M.; Erenshtein, Marina L.; Mikazhan, Valdis D.; Kauss, Valeryans Y.; Liepinsh, Edvard E.; and Trapentsier, Petr T., 4,704,403, Cl. 514-554.000.
- Lukhanin, Boris S.: *See—*
  - Feofanov, Vitaly A.; Pilat, Boris V.; Zhdanovich, Larisa P.; Romanenko, Anatoly G.; Lukhanin, Boris S.; Donets, Oleg V.; and Korobochkin, Valery P., 4,655,895, Cl. 204-213.000.
- Lukhard, Mark H.: *See—*
  - Bolt, John D.; and Lukhard, Mark H., 4,657,753, Cl. 423-447.600.
- Lukianoff, Sergei G. Hand held sanding device. 4,640,060, 2-3-87, Cl. 51-391.000.
- Lukich, James L.; and Zarkovacki, John. Cabinet having a retractable bed. 4,694,518, 9-22-87, Cl. 5-136.000.
- Lukis, Lawrence J., to Moore Business Forms, Inc. Method and apparatus for correcting x-y position measurements. 4,679,241, 7-7-87, Cl. 382-13.000.
- Lukowski, Frank J., Jr.; and Hammill, Harry B., III, to Calspan Corporation. Automatically guided vehicle control system. 4,678,329, 7-7-87, Cl. 356-152.000.
- Luks Industrial Company Ltd.: *See—*
  - Wong, Hoi W.; and Chai, Hung Y., 4,679,078, Cl. 380-15.000.
- Luksha, Eugene, to Cardiac Pacemakers, Inc. Glucose sensor. 4,679,562, 7-14-87, Cl. 128-635.000.
- Lull Engineering Company, Inc.: *See—*
  - Prokop, James A.; and Truehart, David C., 4,683,802, Cl. 91-516.000.
- Luly, Jay R.; Plattner, John J.; and Dellaria, Joseph F., to Abbott Laboratories. Renin inhibiting compounds. 4,645,759, 2-24-87, Cl. 514-18.000.
- Luly, Jay R.; Plattner, John J.; and Dellaria, Joseph F., to Abbott Laboratories. Renin inhibiting compounds. 4,652,551, 3-24-87, Cl. 514-18.000.
- Luly, Jay R.; Plattner, Jacob J.; and Fung, Anthony K., to Abbott Laboratories. Modified phenylalanine peptidylaminodiols. 4,680,284, 7-14-87, Cl. 514-18.000.
- Luly, Robert A. Folding dish reflector. 4,683,475, 7-28-87, Cl. 343-915.000.
- Lum, Francis: *See—*
  - Irwin, Samuel N.; Lum, Francis; Bolt, Michael L.; Henke, Steven E.; Sokolik, Edmund L.; and Chambors, John M., 4,647,994, Cl. 360-85.000.
  - Sokolik, Edmund L.; and Lum, Francis, 4,646,175, Cl. 360-78.000.
- Lum, Jeffrey: *See—*
  - McCutcheon, Samuel; Lum, Jeffrey; Solek, Roman; Harrell, Troy; and Leman, Robert, 4,710,893, Cl. 364-900.000.
- Lum, Kin K.: *See—*
  - Evans, Steven; and Lum, Kin K., 4,695,287, Cl. 8-471.000.
  - Moore, William H.; Weaver, Max A.; and Lum, Kin K., 4,698,651, Cl. 503-227.000.
  - Vanier, Noel R.; and Lum, Kin K., 4,695,286, Cl. 8-471.000.
  - Vanier, Noel R.; and Lum, Kin K., 4,700,207, Cl. 503-227.000.
  - Vanier, Noel R.; Lum, Kin K.; and Bowman, Wayne A., 4,700,208, Cl. 503-227.000.
  - Vanier, Noel R.; Lum, Kin K.; and Bowman, Wayne A., 4,716,144, Cl. 503-227.000.
  - Weaver, Max A.; Moore, William H.; and Lum, Kin K., 4,701,439, Cl. 503-227.000.
- Luma Guard, Inc.: *See—*
  - Hoshal, Dale E., 4,690,419, Cl. 280-154.50R.
- Luma Lighting Industries, Inc.: *See—*
  - Cummings, John H., 4,655,520, Cl. 339-21.00R.
- Luma Telecom, Inc.: *See—*
  - Cooper-Hart, Michael A.; Emmons, Lawrence D.; Mackley, James S.; and Stokes, David H., 4,715,059, Cl. 379-53.000.
- Lumalampan Aktiebolag: *See—*
  - Bjorkman, Ake; and Jonsson, Gunther, 4,646,660, Cl. 110-210.000.
  - Bjorkman, Ake, 4,688,874, Cl. 439-56.000.
  - Bjorkman, Ake, 4,689,521, Cl. 313-493.000.
- Lumaret, Jean-Claude: *See—*
  - Gosset, Serge; and Lumaret, Jean-Claude, 4,711,794, Cl. 427-389.900.
- Lumb, Anthony P.: *See—*
  - Niblock, John A.; Patel, Jayant; Fisher, Dennis; and Lumb, Anthony P., 4,638,432, Cl. 364-200.000.
- Lumbra, Douglas L.: *See—*
  - Buller, Marvin L.; Lumbra, Douglas L.; Phelps, Douglas W.; Samuelsen, Sigvart J.; and Ward, William C., 4,714,953, Cl. 357-81.000.
- Lumen Electronics Corporation: *See—*
  - Wong, John K. Y.; and Wong, Simon K. Y., 4,638,666, Cl. 73-431.000.
- Lumen GmbH Nahrmittel - und Maschinenfabrik: *See—*
  - Menzel, Waldemar, 4,680,944, Cl. 62-342.000.
- Lumenyte Corporation: *See—*
  - Robbins, John A., 4,704,660, Cl. 362-32.000.
- Luminescent Electronics, Inc.: *See—*
  - Simopoulos, Nicholas T.; Simopoulos, George N.; and Simopoulos, Gregory N., 4,647,337, Cl. 156-633.000.
- Lumley, Edward M.; and Bowman, Bonita F., to Mobil Oil Corporation. Automatic gain control for seismic data. 4,636,993, 1-13-87, Cl. 367-65.000.
- Lumma, William C., Jr.: *See—*
  - Diamond, Julius; Lumma, William C., Jr.; Morgan, Thomas K., Jr.; and Wohl, Ronald A., 4,689,341, Cl. 514-399.000.
  - Erhardt, Paul W.; Hagedorn, Alfred A., III; Lumma, William C., Jr.; and Wohl, Ronald A., 4,709,043, Cl. 548-318.000.
- Lummila, Markku: *See—*
  - Kuusela, Juhani; Lopperi, Esko; Lummila, Markku; Saksala, Pertti; Salovaara, Esa; Suhonen, Tuomo; Perttina, Harri; Poikolainen, Esko; and Trygg, Hannu, 4,700,953, Cl. 277-38.000.
- Lummus Crest, Inc.: *See—*
  - Baldasarri, Mario; Adams, William R.; and Caspers, John, 4,707,245, Cl. 208-57.000.
  - Suciu, George D.; and Khonsari, Ali M., 4,634,796, Cl. 568-757.000.
  - Suciu, George D.; Stefani, Giancarlo; and Fumagalli, Carlo, 4,654,425, Cl. 549-259.000.
  - Tsao, Utah; and Kettell, Joseph, 4,698,219, Cl. 423-563.000.
  - Van Driesen, Roger P.; Adams, William R.; Caspers, John; Baldasarri, Mario; and Trimble, Harold, 4,684,456, Cl. 208-143.000.
- Lumo, Inc.: *See—*
  - Morton, Jay, 4,644,732, Cl. 53-412.000.
- Lumonics Inc.: *See—*
  - Hunter, John H., 4,707,711, Cl. 346-108.000.
- Lumpkin, Larry. Indoor and outdoor game. 4,635,943, 1-13-87, Cl. 273-402.000.
- Lumsden, John L., to Sony Corporation. Input transformer circuit. 4,659,981, 4-21-87, Cl. 323-356.000.
- Lunardi, Gerhard, to Inventio AG. Step of an escalator or the like equipped with at least one safety device. 4,638,901, 1-27-87, Cl. 198-323.000.
- Lund, David: *See—*
  - Mullane, William E.; and Lund, David, 4,642,442, Cl. 219-10.410.
  - Mullane, William E.; and Lund, David, 4,661,668, Cl. 219-10.410.
- Lund, Earl A. E.: *See—*
  - Basu, Rajat S.; Wilson, David P.; Lund, Earl A. E.; Pham, Hang T.; and Bonner, John K., 4,655,956, Cl. 252-153.000.
  - Wilson, David P.; Basu, Rajat S.; Pham, Hang T.; Lund, Earl A. E.; and Bonner, John K., 4,654,160, Cl. 252-153.000.
  - Wilson, David P.; Pham, Hang T.; Lund, Earl A. E.; Basu, Rajat S.; and Pelava, John W., 4,683,075, Cl. 252-171.000.
- Lund, Eric W.; and Young, Raymond W., to Amity Leather Products Company. Article with electric timepiece. 4,682,310, 7-21-87, Cl. 368-278.000.
- Lund, Gary K.: *See—*
  - Esneault, Calvin P.; and Lund, Gary K., 4,707,521, Cl. 525-250.000.
- Lund, Henning, to Farmaceutisk Laboratorium Ferring A/S. Process for preparing p-amino phenols by electrolysis. 4,670,112, 6-2-87, Cl. 204-74.000.
- Lund, Ivar, to Ameco A/S. Method and device for energy recovery by manufacturing of asphalt in bulk. 4,644,932, 2-24-87, Cl. 126-343.50A.
- Lund, John A.: *See—*
  - Forbes, Ronald L.; and Lund, John A., 4,636,853, Cl. 358-121.000.
  - Forbes, Ronald L.; Lund, John A.; and Mann, Harold E., III, 4,654,705, Cl. 380-19.000.
- Lund, John G., to In-Mech Industries. Method and apparatus for repair of flanged exhaust connections. 4,649,614, 3-17-87, Cl. 29-257.000.
- Lund, Nora A.: *See—*
  - Martellock, Paul T.; Dougherty, John J.; and Lund, Nora A., 4,685,024, Cl. 361-93.000.
- Lund, Paul D.: *See—*
  - Walker, Robert L.; Crowe, Dale A.; and Lund, Paul D., 4,649,369, Cl. 340-52.00R.
- Lund, Richard A.: *See—*
  - Maue, Dale N.; and Lund, Richard A., 4,679,591, Cl. 137-624.130.
- Lund, Richard M.: *See—*
  - Case, Allen W., Jr.; Lund, Richard M.; Miller, Stuart G.; and Peroutky, Donald C., 4,664,587, Cl. 414-680.000.
- Lund, Robert S., to Pettibone Corporation. Method of blowing cores etc. using quick-set sand, and improved mold-blowing apparatus. 4,643,240, 2-17-87, Cl. 164-20.000.

- Lund, Svend, to Akademiet for de Tekniske Videnskaber, Svejsecentralen. System for the internal inspection of pipelines. 4,679,448, 7-14-87, Cl. 73-866.500.
- Lund, Walter; Berman, Lou; and Dothan, Felix, to Phonocardioscope Partners. Phonocardioscope with a liquid crystal display. 4,679,570, 7-14-87, Cl. 128-715.000.
- Lundahl, E. Cordell; West, Neil L.; and Witzel, Homer D., to Deere & Company. Harvester for the impact-stripping of seed from a standing crop. 4,679,386, 7-14-87, Cl. 56-126.000.
- Lundback, Stig, to Astra-Tech Aktiebolag. Electrode for electrocardiographic examinations. 4,646,747, 3-3-87, Cl. 128-643.000.
- Lundback, Stig, to Astra-Tech Aktiebolag. Blood pump. 4,648,877, 3-10-87, Cl. 623-3.000.
- Lundback, Stig, to Astra-Tech Aktiebolag. Double pump adapted for use as an artificial heart. 4,693,714, 9-15-87, Cl. 623-3.000.
- Lundback, Stig, to Astra-Tech Aktiebolag. Holder fixed by vacuum for industrial use. 4,708,381, 11-24-87, Cl. 294-64.100.
- Lundberg, Anders: *See—*
  - Andersson, Lars; Glanvall, Rune; Ericson, Kjell; and Lundberg, Anders, 4,684,330, Cl. 417-260.000.
- Lundberg, Knut B. L. Method for preventing contact with contaminated textiles and/or spreading of contaminants therein. 4,642,828, 2-17-87, Cl. 8-149.300.
- Lundberg, Krister; Tidstam, Goran; and Pope, Daniel F., to AB Bonnierforetagen. Method and apparatus for measuring the content of suspended substances in a flowing medium. 4,641,969, 2-10-87, Cl. 356-343.000.
- Lundberg, Peter, to Eur-Control Kalle AB. Method of measuring and regulating the concentration of a fibre suspension and a device for carrying out the method. 4,677,846, 7-7-87, Cl. 73-63.000.
- Lundberg, Robert D.; Duvdevani, Ilan; and Peiffer, Dennis G., to Exxon Research & Engineering Co. Controlled gelation of hydrocarbon solutions containing interpolymer complexes. 4,647,603, 3-3-87, Cl. 523-339.000.
- Lundberg, Robert D.; Phillips, Robert R.; Peiffer, Dennis G.; and Duvdevani, Ilan, to Exxon Research and Engineering Company. Method for controlling viscosity of organic liquids and compositions. 4,665,115, 5-12-87, Cl. 524-251.000.
- Lundberg, Robert D.; Phillips, Robert R.; Minckler, L. Sherwood; and Chung, David Y., to Exxon Research and Engineering Company. Method for controlling viscosity of organic liquids and compositions. 4,692,268, 9-8-87, Cl. 252-33.400.
- Lundberg, Robert D.: *See—*
  - Duvdevani, Ilan; Lundberg, Robert D.; Kowalik, Ralph M.; and Peiffer, Dennis G., 4,656,204, Cl. 523-175.000.
  - Peiffer, Dennis G.; Lundberg, Robert D.; and Pober, Kenneth W., 4,637,882, Cl. 252-8.514.
  - Peiffer, Dennis G.; Kowalik, Ralph M.; and Lundberg, Robert D., 4,640,945, Cl. 523-336.000.
  - Peiffer, Dennis G.; Lundberg, Robert D.; Sedillo, Lawrence; and Newlove, John C., 4,683,952, Cl. 166-293.000.
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- Lundberg, Thorsten, to Gotaverken Arendal AB. Hydrostatic coupling device. 4,662,789, 5-5-87, Cl. 405-205.000.
- Lundblad, Bengt: *See—*
  - Bolmstedt, Ulf; and Lundblad, Bengt, 4,706,741, Cl. 165-115.000.
- Lundblad, Karl A.: *See—*
  - Kallenius, Gunilla P.; Lundblad, Karl A.; Mollby, Nils R.; Svensson, Stefan B.; and Winberg, Jan, 4,657,849, Cl. 435-7.000.
- Lundblad, Leif. Automatic banknote depositing apparatus. 4,662,621, 5-5-87, Cl. 271-3.000.
- Lundblom, Einar, to AB Sangtec Medical. Apparatus for registering the presence of bacteria, particularly in field conditions. 4,672,039, 6-9-87, Cl. 435-291.000.
- Lundblom, Richard J. Vertical cut wood shaper. 4,655,268, 4-7-87, Cl. 144-3.00R.
- Lunde, George G.; Hoyne, Earl K.; and Nordeen, Charles K., to Minnesota Mining and Manufacturing Company. Electrographic stylus recording apparatus. 4,649,402, 3-10-87, Cl. 346-153.100.
- Lunde, Tom: *See—*
  - Thorkildsen, Finn; Pepin, Thierry; and Lunde, Tom, 4,653,160, Cl. 29-33.00M.
- Lundeen, Richard O., to Orthopedic Specialties, Inc. Foot orthosis and process. 4,676,801, 6-30-87, Cl. 623-53.000.
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- Lunden, Clarence D., to Boeing Company, The. Method and apparatus for the testing of dielectric materials. 4,634,963, 1-6-87, Cl. 324-58.00A.
- Lunden, Richard W.: *See—*
  - Levendusky, Thomas L.; Benson, Arthur; and Lunden, Richard W., 4,705,927, Cl. 219-10.55E.
- Lunden, Risto: *See—*
  - Ebeling, Olavi; and Lunden, Risto, 4,683,685, Cl. 52-12.000.
- Lunder, Tito-Livio; Hoffmann, Birgit; and Nielsen, Corine-Madeleine, to Nestec S.A. Solubilization of tea in cold water with catechin. 4,680,193, 7-14-87, Cl. 426-597.000.
- Lundergan, Robert G.; and McClune, Donald W., to AMP Incorporated. Detachable sealed multicontact electrical connector. 4,640,567, 2-3-87, Cl. 339-94.00M.
- Lundgren, Bengt, to SKF Nova AB. Locking nut. 4,645,395, 2-24-87, Cl. 411-210.000.
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- Lundgren, Bo T.: *See—*
  - Gustafsson, Bill B. R.; Hedberg, Sven A.; and Lundgren, Bo T., 4,636,501, Cl. 514-235.000.
- Lundgren, Nils L., to Centro-Morgardshammar AB. Method and apparatus for cropping the leading and trailing ends of fast-travelling rolled goods. 4,648,297, 3-10-87, Cl. 83-27.000.
- Lundgren, Sven-Olof. Automatic container spreader. 4,648,645, 3-10-87, Cl. 294-81.530.
- Lundholm, Gunnar, to Mechanical Technology Incorporated. Seal arrangement. 4,645,212, 2-24-87, Cl. 277-3.000.
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- Lundin, Robert S., to Superior Electric Company, The. Method and means for increasing the frequency of update of direction information contained in two sine waves in quadrature. 4,636,662, 1-13-87, Cl. 307-512.000.
- Lundin, Robert S.; and Petritis, Demetris, to Superior Electric Company, The. Means to improve performance of electric motors. 4,642,494, 2-10-87, Cl. 310-49.00R.
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- Lundin, Tord R., to Bilsom AB. Earmuff having sealing ring including liquid and foam plastic layers. 4,674,134, 6-23-87, Cl. 2-209.000.
- Lundman, Philip L. Jack stand and method for making a jack stand. 4,690,361, 9-1-87, Cl. 248-352.000.
- Lundmark, Einar, to Mo och Domsjo Aktiebolag. Arrangement for bonding an elastic ribbon to a plastics web with the aid of an adhesive. 4,675,068, 6-23-87, Cl. 156-495.000.
- Lundquist, Ingemar, to Valleylab, Inc. IV system and controller and combination IV filter and pump assembly for use therein and method. 4,642,098, 2-10-87, Cl. 604-123.000.
- Lundquist, Ingemar H., to Valleylab, Inc. Pump actuator assembly. 4,667,575, 5-26-87, Cl. 92-98.00R.
- Lundquist, Joseph T.; Lundsager, Christian B.; Palmer, Nigel I.; and Troffkin, Howard J., to W. R. Grace & Co. Battery separator. 4,650,730, 3-17-87, Cl. 429-62.000.
- Lundquist, Joseph T.: *See—*
  - Anderman, Menahem; and Lundquist, Joseph T., 4,654,281, Cl. 429-209.000.
- Lundquist, Lynn. Runner shearing assembly for plastic injection molding dies. 4,647,275, 3-3-87, Cl. 425-553.000.
- Lundquist, Roy D. Seating unit and ganging connector for releasably interconnecting a plurality of individual furniture units such as chairs. 4,684,172, 8-4-87, Cl. 297-248.000.
- Lundqvist, Keld. Locking ring. 4,664,549, 5-12-87, Cl. 403-104.000.
- Lundqvist, Mats A.: *See—*
  - Kosakowski, Alex S.; and Lundqvist, Mats A., 4,712,915, Cl. 356-152.000.
- Lundqvist, Svante. Method for screening of wooden chips and the like and a screen. 4,664,790, 5-12-87, Cl. 209-395.000.
- Lundsager, Christian B., to W. R. Grace & Co. Hollow fiber. 4,670,341, 6-2-87, Cl. 428-372.000.
- Lundsager, Christian B.: *See—*
  - Guthrie, James L.; Roberts, Helen F.; and Lundsager, Christian B., 4,661,675, Cl. 219-91.210.
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- Lundsgaard, Jorgen S. Solid state electrochemical device. 4,638,407, 1-20-87, Cl. 361-433.000.
- Lundstrom, Christer: *See—*
  - Lindholm, Carl-Henrik; and Lundstrom, Christer, 4,695,027, Cl. 248-325.000.
- Lundstrom, Jerry E., to Ionics, Incorporated. Decontamination of a radioactive waste liquid by electrodialysis. 4,645,625, 2-24-87, Cl. 252-631.000.
- Lundstrom, Kurt A.: *See—*
  - Wallin, P. O. Thomas; Warell, Bengt H.; Svensson, A. Pedar; Lundstrom, Kurt A.; and Johansson, Lars A., 4,711,184, Cl. 108-144.000.
  - Wallin, Per Olov T.; Warell, Bengt H.; Svensson, Ake P.; Lundstrom, Kurt A.; and Johansson, Lars A., 4,714,025, Cl. 108-20.000.
- Lundstrom, Mats: *See—*
  - Jannborg, Bjorn; and Lundstrom, Mats, 4,655,676, Cl. 414-736.000.
- Lundvall, Sven A.: *See—*
  - Carlsson, Lars G.; and Lundvall, Sven A., 4,659,574, Cl. 426-68.000.
- Lundvall, Sven Albert: *See—*
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- Lundwall, Neal M.; and Herigstad, Donald, to United States of America, Navy. Chemiluminescent marking warhead. 4,706,568, 11-17-87, Cl. 102-513.000.
- Lundy, Allen W.; and Kasle, Leonard, to Kasle Steel Corporation. Expanding arbor. 4,694,559, 9-22-87, Cl. 29-559.000.
- Lundy, Brian T., to Hercules Incorporated. Metal to composite tubular joints. 4,647,078, 3-3-87, Cl. 285-149.000.
- Lundy, Joseph R.; and Kazlausky, Thomas J., to Lundy Research Laboratories, Inc. Method and apparatus for characterizing the unknown state of a physical system. 4,665,485, 5-12-87, Cl. 364-417.000.

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Lundy, Joseph R.; and Kazlausky, Thomas J., 4,665,485, Cl. 364-417.000.

Lundy, Roy, to Seton Products Limited. Tubular support bandages. 4,674,489, 6-23-87, Cl. 128-160.000.

Luneau, John R., to Resolvex Corporation. Magnetic structure for synchro and tachometer. 4,659,953, 4-21-87, Cl. 310-111.000.

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Lung, Dieter; Kluft, Werner; Fabry, Jochen; Wittkopp, Helmut; Dombrowski, Theodor; and Klosterhalfen, Hartwig, to W. Hegenscheidt GmbH. Method for reprofiling profiles of wheel sets. 4,711,146, 12-8-87, Cl. 82-1.00C.

Lungerhausen, Charles C.: *See—*

Bodle, John G.; and Lungerhausen, Charles C., 4,653,951, Cl. 403-92.000.

Lungu, Mihail; and Rogge, Bernd, to Dragerwerk Aktiengesellschaft. Device for conditioning a gas sensor. 4,689,135, 8-25-87, Cl. 204-415.000.

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Rogge, Bernd; Kaross, Klaus; Busack, Hans-Jurgen; and Lungu, Mihail, 4,663,959, Cl. 73-1.00G.

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Achtermann, Jurgen H.; Bose, Tapan K.; and St-Arnaud, Jean-Marie, 4,702,604, Cl. 356-361.000.

Lunk, Hans E.: *See—*

Tondre, Stephen L.; and Lunk, Hans E., 4,678,709, Cl. 428-380.000.

Lunke, Manfred: *See—*

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Lunkenheimer, Paul P.: *See—*

Stroh, Norbert; and Lunkenheimer, Paul P., 4,646,733, Cl. 128-207.160.

Lunkenheimer, Winfried: *See—*

Marzolph, Gerhard; Lunkenheimer, Winfried; and Fedtke, Carl, 4,715,888, Cl. 71-93.000.

Lunn, Garfield R., to Lamb Technicon Corp. Clamp mechanism. 4,700,936, 10-20-87, Cl. 269-226.000.

Lunn, Gerald K.; Main, W. Eric; and McGinn, Michael, to Motorola, Inc. Balanced variable reactance circuit and method of producing the same. 4,638,265, 1-20-87, Cl. 333-214.000.

Lunsford, David; and Walker, James L., to National Starch and Chemical Corporation. Ethylene vinyl acetate compositions for flocking adhesives. 4,696,951, 9-29-87, Cl. 521-65.000.

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Lunsford, Herbert W. Portable message device with a hook shaped attaching means. 4,654,728, 3-31-87, Cl. 360-74.100.

Lunsford, Thomas J. Portable enclosed hygenic workstation. 4,697,854, 10-6-87, Cl. 312-223.000.

Lunt, Audrey T. Fitted crib or bed sheet. 4,704,753, 11-10-87, Cl. 5-484.000.

Lunt, Edward: *See—*

Al-Shaar, Adnan H.; Broughton, Barbara J.; Chambers, Robert K.; Gilmour, David W.; Kelsey, Diane M.; Lowden, Peter; Lunt, Edward; Lythgoe, David J.; McClenaghan, Ian; McDougall, Duncan C.; Saunders, Libert C.; Stuttle, Keith A. J.; and Warne, Peter J., 4,659,727, Cl. 514-370.000.

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Luo, Chung-I. Quick-release wheelchair axle. 4,679,862, 7-14-87, Cl. 301-112.000.

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Luo, Jih-Tzang, to Industrial Technology Research Institute. Two-stroke engine with injected fuel gasifying chamber in piston. 4,708,100, 11-24-87, Cl. 123-73.0PP.

Luoma, Paavo; and Jackson, Jim. Topping and tamping plug. 4,669,540, 6-2-87, Cl. 166-135.000.

Luoma, Richard W.; Reidenbach, John R.; and Schwieters, Clarence R., to International Business Machines Corporation. Disk drive with isolated voice coil motor magnet. 4,700,246, 10-13-87, Cl. 360-98.000.

Luoma, Robert P., II; and Willis, Frank M., to Du Pont de Nemours, E. I., and Company. Plasmapheresis filtration module having improved sealing means. 4,639,317, 1-27-87, Cl. 210-433.200.

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Luong, Mark Y. F., to AT&T Bell Laboratories. CMOS peak detector and AC filter. 4,634,895, 1-6-87, Cl. 307-350.000.

Luong, Minh P.; and Habib, Pierre, to Institut Francais du Petrole. Articulated element anchorage device having a cranked shape. 4,688,360, 8-25-87, Cl. 52-166.000.

Luossavaara Kiirunavaara AB: *See—*

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Luoto, Donald W.: *See—*

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Luperox GmbH: *See—*

Rauer, Kurt; and Orner, Angelika, 4,683,248, Cl. 521-96.000.

Luperti, Harry E.; Irvine, Robert; and Luvara, Anthony, to Pitney Bowes Inc. Reverse collating machine. 4,640,506, 2-3-87, Cl. 271-212.000.

Luperti, Harry E.; Person, Eric N.; and Simmel, Thomas, to Pitney Bowes Inc. High speed envelope flap opener. 4,715,164, 12-29-87, Cl. 53-381.00R.

Lupfer, David A.: *See—*

Bernstein, Richard; Anthony, William H.; and Lupfer, David A., 4,714,905, Cl. 333-167.000.

Lupke, Manfred A. A. Apparatus for molding thermoplastic pipes. 4,681,526, 7-21-87, Cl. 425-532.000.

Lupke, Manfred A. A. Producing double-walled helically wound thermoplastic pipe with a corrugated cutter wall and a smooth inner wall. 4,689,174, 8-25-87, Cl. 156-470.000.

Lupke, Manfred A. A. Extrusion die for externally ribbed plastic tubing. 4,712,993, 12-15-87, Cl. 425-466.000.

Lupnitz, Gerhard: *See—*

Gierse, Franz-Josef; Hermanns, Heinrich; Lupnitz, Gerhard; Pabst, Manfred; and Schlicht, Heribert, 4,646,402, Cl. 26-86.000.

Lupo, Elio, to Gilardini S.p.A. Sun roof for vehicles. 4,684,168, 8-4-87, Cl. 296-217.000.

Lupoli, Franco: *See—*

Mustarelli, Piercarlo; Lupoli, Franco; and Negri, Emilio, 4,699,228, Cl. 177-212.000.

Lupoli, Peter J.; and Mattis, Donald J., to Casco Products Corporation. Temperature controlled electric engine block. 4,634,834, 1-6-87, Cl. 219-208.000.

Lupoli, Peter J.; and Mattis, Donald J., to Casco Products Corporation. Electric switch construction. 4,650,936, 3-17-87, Cl. 200-16.00B.

Lupoli, Peter J.; and Mattis, Donald J., to Casco Products Corporation. Float switch construction for monitoring liquid levels. 4,694,128, 9-15-87, Cl. 200-84.00R.

Lupoli, Peter J.; and Mattis, Donald J., to Casco Products Corporation. Engine exhaust particulate ignitor construction. 4,695,429, 9-22-87, Cl. 422-49.000.

Lupoli, Peter J.: *See—*

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Regel, Erik; Draber, Wilfried; Buchel, Karl H.; Frohberger, Paul-Ernst; and Lurssen, Klaus, 4,699,645, Cl. 71-76.000.

Reiser, Wolf; Draber, Wilfried; Buchel, Karl H.; Lurssen, Klaus; Frohberger, Paul-Ernst; and Paul, Volker, 4,647,302, Cl. 71-92.000.

Stetter, Jorg; Wroblowsky, Heinz-Jurgen; Schmidt, Robert R.; Santel, Hans-Joachim; Hanssler, Gerd; and Lurssen, Klaus, 4,638,004, Cl. 514-272.000.

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Cagle, Larry L.; Andersen, Keith D.; and Lurvey, Victor E., 4,714,578, Cl. 264-255.000.

Luryi, Sergey, to American Telephone and Telegraph Company; and AT&T Bell Laboratories. Hot electron unipolar transistor with two-dimensional degenerate electron gas base with continuously graded composition compound emitter. 4,691,215, 9-1-87, Cl. 357-22.000.

Luryi, Sergey: *See—*

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Lurz, Werner, to Messerschmitt-Bolkow-Blohm GmbH. Method for stabilizing laminar separated boundary layers. 4,664,345, 5-12-87, Cl. 244-209.000.

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Lawhon, James T.; and Lusas, Edmund W., 4,645,677, Cl. 426-431.000.

Luschnig, Franz; Wuerthner, Hubert; Kaineder, Herbert; and Leichtfried, Fritz, to TMC Corporation. Device for facilitating longitudinal adjustment of ski binding parts. 4,699,398, 10-13-87, Cl. 280-633.000.

Luschnig, Franz: *See—*

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Lusetti, Giorgio; and Secchi, Lorenzo, to Precision Tooling s.r.l. Device for grinding chain saw teeth. 4,658,677, 4-21-87, Cl. 76-25.00A.

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Lusk, Donald L., to A. O. Smith Corporation. Ultrasonically speeded fiber impregnation. 4,689,244, 8-25-87, Cl. 427-57.000.

Lusk, Elmer C.; and Ridihalgh, John L., to Mitsubishi Heavy Industries, Ltd. Shipping and storage container for spent nuclear fuel. 4,666,659, 5-19-87, Cl. 376-272.000.

Lusk, Kenneth P., to United States of America, Navy. Missile separation system. 4,648,321, 3-10-87, Cl. 102-293.000.

Lusk, Norman E., and Anderson, Ian J. Blank firing attachment for machine gun. 4,685,378, 8-11-87, Cl. 89-14.500.

Lussier, Barbara B., to Eastman Kodak Company. Non-precipitating quinone diazide polymer containing photoresist composition with o-quinone diazide trisester as dissolution inhibitor. 4,684,597, 8-4-87, Cl. 430-190.000.

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- Mengel, Rudolf; Schroder, Ludwig; Stransky, Werner; Linden, Gerbert; and Lust, Sigmund, 4,655,824, Cl. 71-94.000.
- Sehring, Richard; Buck, Wolfgang; Prokic-Immel, Ricarda; and Lust, Sigmund, 4,639,438, Cl. 514-129.000.

Lustenberger, Martin, to Vibro-Meter SA. Torque or angle of torsion measuring device. 4,680,976, 7-21-87, Cl. 73-862.330.

Lustig, Lee M.; and Ritchie, Donald E., to Dresser Industries, Inc. Running and setting tool for well packers. 4,688,634, 8-25-87, Cl. 166-120.000.

Lustig, Lee M.; and Ellis, Gary D., to Dresser Industries, Inc. Isolation valve with frangible flapper element. 4,691,775, 9-8-87, Cl. 166-317.000.

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Lustig, Leopold P. Modular system for restorative dentistry. 4,689,013, 8-25-87, Cl. 433-181.000.

Lustig, Stanley; Schuetz, Jeffrey M.; and Vicik, Stephen J., to Viskase Corporation. Irradiated multilayer film for primal meat packaging. 4,714,638, 12-22-87, Cl. 428-35.000.

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- Gerber, Urs; Gerber, Erich; Hofer, Peter; Fischer, Erwin; Lusnardi, Werther; Gysel, Walter; Baggi, Roland; Rogg, Eduard; and Gut, Karl, 4,665,794, Cl. 89-36.020.

Luter, Charles H.; Lethin, Nils L.; Moeller, Johan; and Holm, Bjarne R., to Karl Moeller Nagbol. Manually adjustable wheels. 4,643,484, 2-17-87, Cl. 301-11.00S.

Luterek, Garry M., to Deere & Company. Combined engine cooling and lube system. 4,708,095, 11-24-87, Cl. 123-41.420.

Lutgendorf, Pieter H.; and Klemnibbelink, Gerrit J., to Thomassen and Drijver-Verblifa N.V., and Hajime Industries Ltd., a part interest. Apparatus for checking containers. 4,680,463, 7-14-87, Cl. 250-223.00B.

Luth, Royse I., to Weatherford/Lamb, Inc. Pipe handling apparatus. 4,654,314, 8-4-87, Cl. 414-745.000.

Luther, Hans W.: *See—*
- Bocker, Jurgen; Luther, Hans W.; Wallow, Peter; and Fritsch, Horst, 4,697,525, Cl. 102-518.000.
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Luther, Hans-Werner, and Sabranski, Udo, to Rheinmetall GmbH. Armored-piercing projectile (penetrator). 4,643,099, 2-17-87, Cl. 102-517.000.

Luther, Lars C.; and Singh Rana, Virendra V., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Liquid phase epitaxial growth of bismuth-containing garnet films. 4,690,726, 9-1-87, Cl. 156-624.000.

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Luther Medical Products, Inc.: *See—*
- Luther, Ronald B., 4,668,221, Cl. 604-164.000.

Luther, Ronald B., to Angiobrade Partners. Angioplasty device. 4,650,466, 3-17-87, Cl. 604-95.000.

Luther, Ronald B., to Luther Medical Products, Inc. Assembly of stylet and catheter. 4,668,221, 5-26-87, Cl. 604-164.000.

Luther, Ronald B.; Snyder, Daniel R.; and Whitehouse, Craig M., to DRS Infusion Systems, Inc. Assembly of breakaway needle and catheter. 4,702,735, 10-27-87, Cl. 604-161.000.

Luthi, Walter, to Tesa S.A. Sensor device for a machine for measuring conductive parts mounted on a measurement table. 4,679,332, 7-14-87, Cl. 33-559.000.

Luthi, Werner: *See—*
- Bischofberger, Walter; Eichholzer, Heinz; Graber, Werner; Tahir, Jiri; Hochspach, Edgar; and Luthi, Werner, 4,670,632, Cl. 200-144.0AP.

Luthje, Holger: *See—*
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Luthra, Krisham L., to General Electric Company. Coated superalloy gas turbine components. 4,677,034, 6-30-87, Cl. 428-678.000.

Lutke-Foller, Heinz: *See—*
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- D'Aleo, Michael J., and Smaich, Mark, 4,695,820, Cl. 338-179.000.
- Kirby, David, 4,639,819, Cl. 361-115.000.
- Luchaco, David G., and Capewell, Dennis, 4,663,570, Cl. 315-219.000.
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- Gilman, Keith; and Lutz, Bruce W., 4,712,580, Cl. 137-512.150.

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- Helinski, Richard R.; Lutz, Carl D.; Peer, Thomas R.; and Eno, Philip A., 4,714,936, Cl. 346-140.00R.

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Lutz, Michael, to Captive Plastics, Inc. Package employing unique seal. 4,712,699, 12-15-87, Cl. 215-329.000.

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- Frommeld, Hans-Dieter; Lutz, Walter; and Steppan, Hartmut, 4,659,645, Cl. 430-175.000.

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- Bleier, Waldemar; Lutze, Theodor; and Stallforth, Harald, 4,693,251, Cl. 128-346.000.
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- Miller, Gerald W.; and Lutzmann, H. Harald, 4,672,087, Cl. 524-141.000.

Luursema, Meerten, to U.S. Philips Corporation. Discharge lamp circuit with protected PTC resistor. 4,645,976, 2-24-87, Cl. 315-106.000.

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Luwa AG: *See—*
- Schmitt, Armin, 4,693,904, Cl. 426-521.000.

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- Finn, Patrick J.; Glover, Linda M.; Henry, Arnold W.; and Lux, Adalbert A., 4,659,621, Cl. 428-339.000.

Lux, Arthur J.: *See—*
- Shah, Harshad M.; Hill, Ronald C.; and Lux, Arthur J., 4,658,688, Cl. 83-552.000.

Lux, Benno: *See—*
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- Lux, Johannes: *See—*
  - Dick, Heinz; and Lux, Johannes, 4,648,014, Cl. 362-346.000.
- Lux, Karl-Heinz: *See—*
  - Barlian, Reinhold; Fischle, Martin; and Lux, Karl-Heinz, 4,692,570, Cl. 200-4.000.
- Lux, Peter: *See—*
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  - Metzdorff, Walter; Lux, Peter; and Eibert, Max, 4,708,473, Cl. 356-5.000.
- Lux, Ronald E.; and Miller, Eugene J., to Minnesota Mining and Manufacturing Company. Polyolefin fiber roll. 4,669,163, 6-2-87, Cl. 29-125.000.
- Luxon, Bruce A., to American Cyanamid Company. Surface treated metallic filaments. 4,668,578, 5-26-87, Cl. 428-367.000.
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  - Ellis, Roger H.; and Alyea, John W., 4,712,864, Cl. 350-96.220.
  - Phillips, Stephen R., 4,678,905, Cl. 250-227.000.
  - Wickersheim, Kenneth A.; Sun, Mei H.; and Heinemann, Stanley O., 4,652,143, Cl. 374-161.000.
- Luyckx, Leon A., to Foseco International Limited. Purifying steel. 4,667,939, 5-26-87, Cl. 266-287.000.
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- Luz, David W., to RCA Corporation. Power switch control circuit for television apparatus. 4,647,823, 3-3-87, Cl. 315-411.000.
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  - Haferl, Peter E.; Sutherland, Hugh F., II; Luz, David W.; McDonald, James A.; Waybright, George C.; and Willis, Donald H., 4,682,085, Cl. 315-371.000.
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- Luzader, Rex E.: *See—*
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- Luzin, Valery V.: *See—*
  - Volkhin, Nikolai N.; Ardabatsky, Vladimir P.; and Luzin, Valery V., 4,700,468, Cl. 29-623.200.
- Luzzi, Glenn J.; and Kominiak, Andrew A., to Amerace Corporation. High voltage cable splice protector. 4,684,764, 8-4-87, Cl. 174-91.000.
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  - Luzzi, Louis A.; and Luzzi, Joyce K., 4,711,904, Cl. 514-464.000.
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- Lyall, Raymond M.: *See—*
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- Lyall, Robert W., to R. W. Lyall & Company, Inc. Plastic pipe coupling apparatus and method of using same. 4,635,972, 1-13-87, Cl. 285-242.000.
- Lybarger, Robert: *See—*
  - Jordan, Chalmer; Connor, Lee; and Lybarger, Robert, 4,682,381, Cl. 10-63.000.
- Lybeck, Lynn V.: *See—*
  - Lane, Leslie A.; Lybeck, Lynn V.; Perloff, David S.; and Mallory, Chester L., 4,679,137, Cl. 364-188.000.
- Lybecker, Robert W., to Bomar Corporation, Inc. Modular automatic gate opener. 4,638,597, 1-27-87, Cl. 49-340.000.
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  - Beele, Johannes A., 4,702,444, Cl. 248-56.000.
- Lycan, Goodwin A. Soluble pipe spacer. 4,674,772, 6-23-87, Cl. 285-22.000.
- Lycan, Jennings, to Service Machine Co. Reversing switch. 4,639,558, 1-27-87, Cl. 200-1.00V.
- Lycke, Anders H., to International Business Machines Corporation. Docking and locking device for a pallet in a robot or like system. 4,662,503, 5-5-87, Cl. 198-345.000.
- Lyco Manufacturing, Inc.: *See—*
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- Lydall, Inc.: *See—*
  - Cambo, William H.; Whitely, Elliott F.; and Bond, Leroy E., 4,687,697, Cl. 428-201.000.
- Lyddy, James E.; and Fincke, Randall W. Method and apparatus for regulating fluid flow. 4,690,162, 9-1-87, Cl. 137-1.000.
- Lyddy, James E., Jr.; Penland, William Z.; and Sugarbaker, Paul H., to United States of America, Health and Human Services. Medical apparatus. 4,690,131, 9-1-87, Cl. 128-4.000.
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- Lyden, Robert M. Midsole construction/shoe insert. 4,674,206, 6-23-87, Cl. 36-88.000.
- Lydtin, Hans-Jurgen: *See—*
  - Auwerda, Cornelis P.; Geittner, Peter E. E.; and Lydtin, Hans-Jurgen, 4,714,589, Cl. 427-39.000.
  - Derks, Pierre L. L. M.; Lersmacher, Bernhard; and Lydtin, Hans-Jurgen, 4,685,946, Cl. 65-17.000.
  - Gartner, Georg F.; Janiel, Peter A.; and Lydtin, Hans-Jurgen, 4,713,259, Cl. 427-39.000.
- Lyerly, David M.: *See—*
  - Wilkins, Tracy D.; and Lyerly, David M., 4,713,240, Cl. 424-92.000.
- Lygas, Edward A., to NL Industries, Inc. Magnetostrictive pulse generator. 4,636,999, 1-13-87, Cl. 367-156.000.
- Lyle, Phra D.: *See—*
  - McCoy, Richard A.; Reitter, Walter L.; and Lyle, Phra D., 4,656,084, Cl. 428-266.000.
- Lyle, Terry A.: *See—*
  - Freidinger, Roger; Nutt, Ruth F.; Lyle, Terry A.; and Saperstein, Richard, 4,703,034, Cl. 514-11.000.
- Lyle, W. D., Jr.; and Williams, Donald M., to Mobil Oil Corporation. Method of detecting and correcting impulse noise errors in log data. 4,677,596, 6-30-87, Cl. 367-46.000.
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- Lyman, George. Milling machine controller. 4,674,928, 6-23-87, Cl. 409-80.000.
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  - Mathus, Gregory; Lyman, George; and Looney, Kevin, 4,690,757, Cl. 210-232.000.
- Lyman, George F.; and Mathus, Gregory, to Costar Corporation. Filter for centrifuge tube. 4,683,058, 7-28-87, Cl. 210-359.000.
- Lyman, John L.: *See—*
  - Robinson, C. Paul; Rockwood, Stephen D.; Jensen, Reed J.; Lyman, John L.; and Aldridge, Jack P., III, 4,655,890, Cl. 204-157.220.
- Lymburner, Robert K., to Ozz Industries, Inc. Proximity switch assembly. 4,664,364, 5-12-87, Cl. 269-32.000.
- Lymer, Donald A.: *See—*
  - Bartlett, Ian G.; and Lymer, Donald A., 4,678,533, Cl. 156-435.000.
- Lymore Limited: *See—*
  - Brosch, Richard W., 4,715,425, Cl. 164-418.000.
- Lynam, Niall R.; and Seah, Kiok K., to Donnelly Corporation. Electrochromic mirror. 4,712,879, 12-15-87, Cl. 350-357.000.
- Lynas, William P., III. Automobile truck lid rack. 4,671,556, 6-9-87, Cl. 296-37.100.
- Lynch, Bobby R., to TRI-L Manufacturing, Inc. Hay bale spike assembly. 4,674,786, 6-23-87, Cl. 294-120.000.
- Lynch, Bobby R. Apparatus and method for rimming containers. 4,680,016, 7-14-87, Cl. 493-159.000.
- Lynch, Byron C.: *See—*
  - Lipkin, Gregory M.; and Lynch, Byron C., 4,662,995, Cl. 203-98.000.
- Lynch, Charles E.; and Wilkinson, William K., to Du Pont de Nemours, E. I., and Company. Acrylic fiber suitable for preparing carbon or graphite fibers. 4,698,413, 10-6-87, Cl. 525-328.500.
- Lynch, Charles T.; Vahldiek, Fred W.; and Khobaib, Mohammad, to United States of America, Air Force. High performance multifunctional corrosion inhibitors especially for combining at 20 to 50 weight percent with soap or paint. 4,714,564, 12-22-87, Cl. 252-110.000.
- Lynch Communication Systems, Inc.: *See—*
  - Davidow, Clifford A., 4,680,750, Cl. 370-16.000.
- Lynch, Daniel; and Perry, Steven B., to Keptel, Inc. Telephone line testing circuit. 4,679,224, 7-7-87, Cl. 379-26.000.
- Lynch, Daniel, to Keptel, Inc. Telephone line selection and isolation method and apparatus. 4,682,347, 7-21-87, Cl. 379-29.000.
- Lynch, Daniel, to Keptel, Inc. Transmission line signal sensing circuit employing means for conserving power, especially for use with a telephone disconnect circuit, and associated method. 4,686,696, 8-11-87, Cl. 379-22.000.
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- Lynch, David D., Jr.; and Bell, William H. Terminally guided weapon delivery system. 4,641,801, 2-10-87, Cl. 244-3.140.
- Lynch, David L., to Northern Telecom Limited. Automatic linear compression circuit. 4,634,960, 1-6-87, Cl. 323-350.000.
- Lynch, Donald J.; and Shivers, Raymond P., to Campbell Soup Company. Method of processing meat for inclusion in high acid type foods and product thereof. 4,636,393, 1-13-87, Cl. 426-276.000.
- Lynch, Eugene F.: *See—*
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- Lynch, Gary J.; and Yang, Chen-Hsyong, to Monsanto Company. Recovery of phenol from aqueous solution. 4,695,410, 9-22-87, Cl. 260-410.500.

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  - Vorachek, Michael J.; Entringer, Guy P.; Meives, Otis E.; Lynch, Gary L.; and Lutzke, Anthony J., 4,683,704, Cl. 53-461.000.
- ynch, Gary M. Building structures. 4,672,889, 6-16-87, Cl. 98-12.200.
- ynch, Gordon; McLuckie, Peter; Mark, David; and Vincent, James H., to Coal Industry (Patents) Limited. Dust collector. 4,675,034, 6-23-87, Cl. 55-270.000.
- ynch, Gordon E.: *See—*
  - Floyd, David T.; Shanklin, Garry L.; Lynch, Gordon E.; and Meitner, Gary H., 4,683,001, Cl. 106-3.000.
- ynch, James E. Water treatment for water injection plasma arc cutting apparatus. 4,649,258, 3-10-87, Cl. 219-121.0PY.
- ynch, James P. Collapsible canopy structure. 4,641,676, 2-10-87, Cl. 135-110.000.
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- ynch, Jerry C.: *See—*
  - Faler, Gary R.; and Lynch, Jerry C., 4,701,566, Cl. 568-719.000.
- ynch, John: *See—*
  - Bleckmann, Gerhard; Lynch, John; and Wallbillich, Gunter, 4,635,549, Cl. 101-401.100.
- ynch, John E.: *See—*
  - Curtiss, Walter W.; and Lynch, John E., 4,693,290, Cl. 152-450.000.
- ynch, John M.: *See—*
  - Woodworth, John L.; and Lynch, John M., 4,657,134, Cl. 206-219.000.
- ynch, Leo E. Necktie-tying gauge. 4,682,419, 7-28-87, Cl. 33-613.000.
- ynch, Marine D.: *See—*
  - Wing, Ray D.; Lynch, Marine D.; Rawitzer, John A.; and Whitney, Mark D., 4,708,451, Cl. 354-312.000.
- ynch, Michael J.; Forehand, Gilbert H.; Duncan, Richard L.; Tilghman, Stephen E.; and Penn, Jack C., to Halliburton Company. Method of sampling and recording information pertaining to a physical condition detected in a well bore. 4,665,398, 5-12-87, Cl. 340-853.000.
- ynch, Michael J.: *See—*
  - Duncan, Richard L.; Lynch, Michael J.; Forehand, Gilbert H.; White, Billy W.; and Richardson, J. Mark, 4,663,628, Cl. 340-853.000.
  - Forehand, Gilbert H.; and Lynch, Michael J., 4,675,649, Cl. 340-347.0AD.
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- ynch, Steven J., to Dennison Manufacturing Company. Conveyance and grouping of stringed tags. 4,655,339, 4-7-87, Cl. 198-836.000.
- ynch, William C.: *See—*
  - Walkiewicz, Zigmunt J., Jr.; and Lynch, William C., 4,712,459, Cl. 83-171.000.
- ynch, William M.: *See—*
  - Mahoney, Brian J.; and Lynch, William M., 4,650,530, Cl. 156-73.100.
- ynch, William T.; and Seidel, Thomas E., to AT&T Bell Laboratories. Forming thick dielectric at the bottoms of trenches utilized in integrated-circuit devices. 4,643,804, 2-17-87, Cl. 204-15.000.
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- ynch, William T.; and Parrillo, Louis C., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Method for fabricating CMOS devices. 4,656,730, 4-14-87, Cl. 29-571.000.
- ynch, William T.: *See—*
  - Coquin, Gerald A.; Lynch, William T.; and Parrillo, Louis C., 4,647,957, Cl. 357-42.000.
  - Koeneke, Conrad J.; Lepselter, Martin P.; and Lynch, William T., 4,665,414, Cl. 357-15.000.
  - Lebowitz, Joseph; and Lynch, William T., 4,694,561, Cl. 437-52.000.
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  - Ney, Robert, 4,638,117, Cl. 174-117.00F.
- yng, Bjorn, to Lyng Industrier A/S. Sanitary system for supply of hot and cold water, and thermostatically controlled valve for such system., 4,688,273, 8-25-87, Cl. 4-192.000.
- yng Industrier A/S: *See—*
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- ynham, Christopher J.: *See—*
  - White, Graham L.; and Lynham, Christopher J., 4,667,367, Cl. 16-258.000.
- nham, Ian H.; and Windall, Roy S., to Haden Drysys International Ltd. Spray booths. 4,643,082, 2-17-87, Cl. 98-115.200.
- nm, Dwo; Morrison, Carl C.; and Hutcherson, Ronald W., Sr., to R. J. Reynolds Tobacco Company. Cigarette. 4,715,389, 12-29-87, Cl. 131-335.000.
- nn, Dale E.: *See—*
  - DiPiazza, Philip S.; Lynn, Dale E.; and Weber, Donald J., 4,707,689, Cl. 340-706.000.
- nn, David G.: *See—*
  - Kenison, David F.; and Lynn, David G., 4,655,034, Cl. 60-39.290.
- nn, Douglas: *See—*
  - Chabries, Douglas M.; Christiansen, Richard W.; Lynn, Douglas; and Kenworthy, Gary, 4,658,426, Cl. 381-94.000.
- nn, Jesse L., Jr.: *See—*
  - Secemski, Isaac I.; and Lynn, Jesse L., Jr., 4,692,275, Cl. 252-534.000.
- nn, Kenneth: *See—*
  - Tseng, Charles C.; and Lynn, Kenneth, 4,688,753, Cl. 251-7.000.
- Lynn, Kenneth M.; and Rollins, Richard, to Baxter Travenol Laboratories, Inc. Splash back reduction drip chamber. 4,673,397, 6-16-87, Cl. 604-251.000.
- Lynn, Shelby A.: *See—*
  - Sisk, George W.; Lynn, Shelby A.; Keil, John P.; and Woods, John T., 4,714,304, Cl. 312-214.000.
- Lynx Golf, Inc.: *See—*
  - Boone, David D., 4,691,388, Cl. 2-161.00A.
- Lyon, Craig A.: *See—*
  - Ross, David F.; and Lyon, Craig A., 4,645,032, Cl. 181-250.000.
- Lyon, George E.: *See—*
  - Torrano, Michael A., Jr.; Lyon, George E.; and Haddick, David H., 4,679,087, Cl. 358-168.000.
- Lyon & Healy Harps Inc.: *See—*
  - MacWilliams, William, 4,696,217, Cl. 84-266.000.
- Lyon, John B.; and Stowe, Gerald T., to Du Pont de Nemours, E. I., and Company. Production of cyclohexyl hydroperoxide. 4,675,450, 6-23-87, Cl. 568-360.000.
- Lyon, John E.: *See—*
  - Stahlheber, N. Earl; and Lyon, John E., 4,661,331, Cl. 423-309.000.
- Lyon, Michael: *See—*
  - Bauck, Randall C.; Radman, Anton J.; Thornock, Roy; Freeman, Robert D.; Kleczkowski, Peter; Losee, Paul D.; and Lyon, Michael, 4,658,318, Cl. 360-133.000.
- Lyon, Michael R.: *See—*
  - Freeman, Robert D.; Lyon, Michael R.; and Kleczkowski, Stawomir P., 4,663,686, Cl. 360-128.000.
  - Griffith, David W.; Lyon, Michael R.; Bishop, Ross W.; and Friery, Edward H., 4,663,677, Cl. 360-71.000.
- Lyon, Richard K.: *See—*
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- Lyon, Terry L., to Control Data Corporation. Data capture logic for VLSI chips. 4,660,198, 4-21-87, Cl. 371-15.000.
- Lyon, William G., to Phillips Petroleum Company. Process for preparing ferrous carbonate. 4,657,752, 4-14-87, Cl. 423-419.00R.
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